

MARATHON COUNTY, WISCONSIN

VILLAGE OF ROTHSCHILD

PLAN OF PROPOSED IMPROVEMENT

CTH "XX"

INDUSTRIAL PARK DRIVE - TRAILWOOD LANE

PROJECT NUMBER
2003492

UTILITIES

WISCONSIN PUBLIC SERVICE
P.O. BOX 1166
WAUSAU, WI 54401
1-800-847-9440

CHARTER COMMUNICATIONS
400 SCOTT ST.
P.O. BOX 1818
WAUSAU, WI 54401
(715) 845-4223

VERIZON
521 4TH ST.
WAUSAU, WI 54403
(715) 847-1511

VILLAGE OF ROTHSCHILD
211 GRAND AVENUE
ROTHSCHILD, WI 54474
(715) 359-3660

DIGGERS HOTLINE
1-800-242-8511

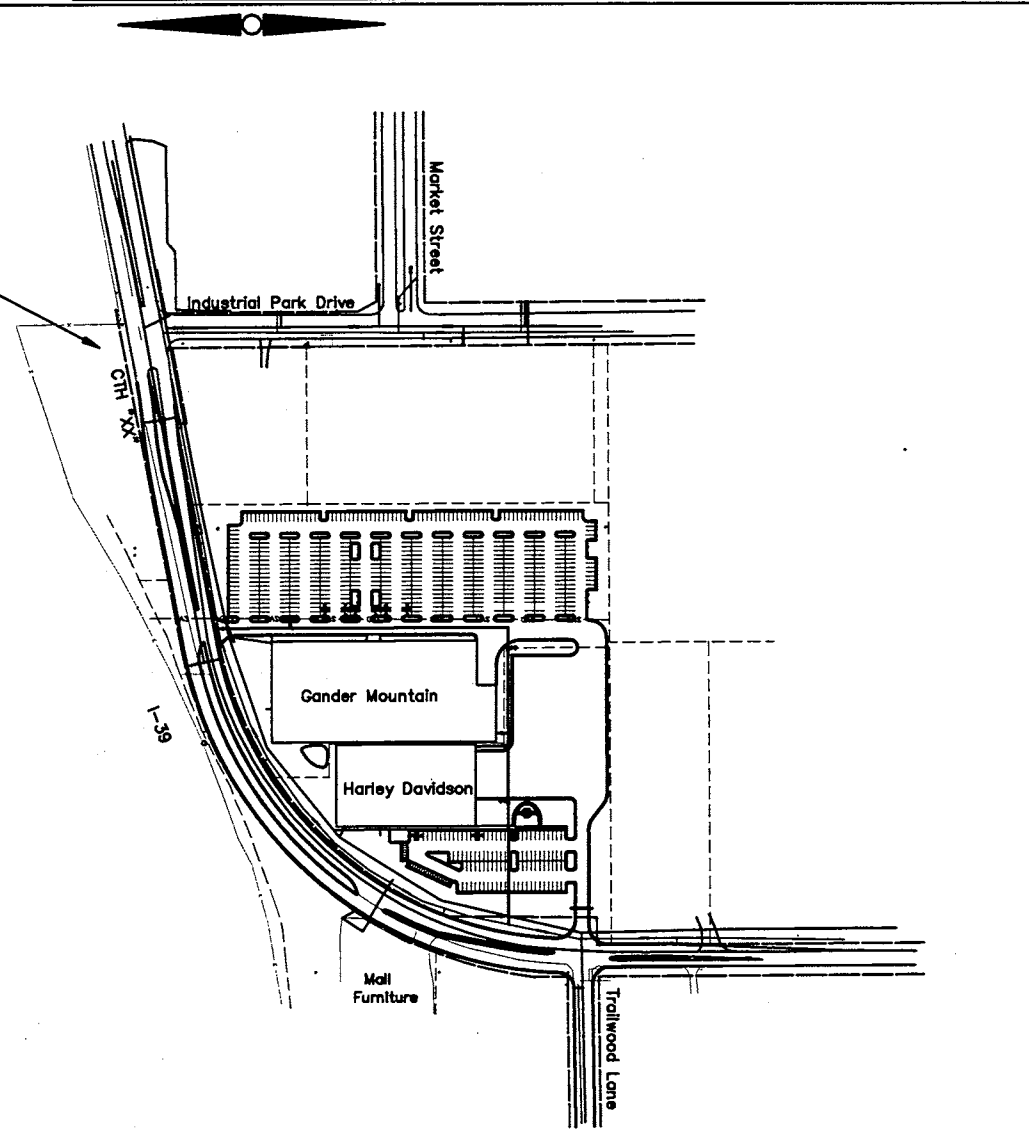
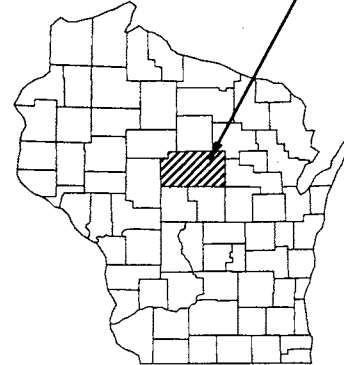
CONSTRUCTION ENGINEER

SCHNEIDER CONSULTANTS, INC
10208 PARK PLAZA, SUITE A
MOSINEE, WI 54455
(715) 359-9668

INDEX OF SHEETS

Sheet No.	Title
Sheet No. 1	Location Map
Sheet No. 1.1 -1.2	Construction Details
Sheet No. 2.0 -2.41	Estimate Quantities
Sheet No. 3.0	Miscellaneous Quantities
Sheet No. 3.1 -3.8	Plan and Profile
Sheet No. 5.0 -5.4	CROSS SECTION

TOTAL SHEETS = 72



CONVENTIONAL SIGNS

County Line		Combustible Fluids (Under Pressure)	
Corporate Limits		Underground Utilities	
Property Line		WISCONSIN FUEL & LIGHT	
Lot Line		WISCONSIN PUBLIC SERVICE	
Limited Easement		GENERAL TELEPHONE	
Existing Right of Way		MOSINEE TELEPHONE	
Proposed New R/W Line		MARCUS CABLE	
Survey Line		Service Pedestal	
Catch Points		Cable Marker	
Original Ground		Power Pole	
Marsh or Rock Profile		Telephone Pole	
Existing Culvert		Railroads	
Proposed Culvert		Marsh	
Culvert (Profile View)		Wooded Area	
		Silt Fence	

** Coordinates on this plan are referenced to an assumed coordinate system

TOTAL NET LENGTH OF CENTERLINE = 2300'

THESE PLANS HAVE BEEN REDUCED FROM THEIR ORIGINAL SIZE BY APPROXIMATELY 50% SCALES AS SHOWN ARE INTENDED FOR THE FULL-SIZE (100%) SHEETS.

ORIGINAL PLANS PREPARED BY
SCHNEIDER CONSULTANTS

7/3/03
Date
Richard H. Schneider, P.E.

LIST OF STANDARD ABBREVIATIONS

ABUT	Abutment	DIST	District	MP	Marker Post	RCHECP	Reinforced Concrete	TI	Temporary Interest
AP	Access Point	DG	Ditch Grade	M	Marsh		Horizontal Elliptical	TLE	Temporary Limited Easement
AC	Acre	DWY	Driveway	ML or M/L	Match Line		Culvert Pipe		
AGG	Aggregate	E	East	MATL	Material	RCPA	Reinforced Concrete Pipe Arch	TPM	Temporary Pavement Marking
AH	Ahead	X	East Grid Coordinate	Mg	Megagram				
∠	Angle	EB	Eastbound	m	Meter	RCPCP	Reinforced Concrete Pipe Cattle Pass	TPMRT	Temporary Pavement Marking, Removable Tape
ASPH	Asphaltic	ELEC	Electric (al)	mm	Millimeter				
AC	Asphalt Cement	EL or ELEV	Elevation	NOM	Nominal	RCPSS	Reinforced Concrete Pipe Storm Sewer	MBM	Thousand Feet Board Measure
APM	Asphaltic Plant Mix	EMB	Embankment	NRCPPS	Non Reinforced Concrete				
AVG	Average	EW	Endwall		Pipe Storm Sewer	REBAR	Reinforcement Bar		
ADT	Average Daily Traffic	ENT	Entrance	NC	Normal Crown	REINF	Reinforcing or Reinforcement	t	Ton
B & B	Balled and Burlapped	ESALS	Equivalent Single Axle Loads	NW or NW	Normal Water			TC	Top of Curb
B & P	Balled and Potted	EXC	Excavation	N	North	REL	Relocate (d)	T or TN	Town
BK	Back	EBS	Excavation Below Subgrade	Y	North Grid Coordinate	REM	Remaining	TRANS	Transition
BF	Back Face	EXIST	Existing	NB	Northbound	REP	Representative	TL or T/L	Transit Line
BR	Bare Root	EXP	Expansion	NO	Number	REQD	Required	T	Trucks (percent of)
BRP	Bare Root Potted	FF	Face to Face	OBLIT	Obliterate	RES	Residence or Residential	TYP	Typical
BL or B/L	Base Line	FP	Fence Post	OL	Out Lot	RW	Retaining Wall	UNCL	Unclassified
BM	Bench Mark	FERT	Fertilize	OD	Outside Diameter	RT	Right	UG	Underground Cable
BLK	Block	FE	Field Entrance	PSD	Passing Sight Distance	RHF	Right-Hand Forward	USH	United States Highway
BR	Bridge	F	Fill	PAVT	Pavement	R/W	Right-of-Way	VAR	Variable
C	Celsius	FG	Finished Grade	PCP	Pipe Cattle Pass	R	River	V	Velocity or Design Speed
CB	Catch Basin	FL or F/L	Flow Line	PLE	Permanent Limited Easement	RD	Road	VERT	Vertical
CL or C/L	Center Line	FT	Foot			RDWY	Roadway	VC	Vertical Curve
CC	Center to Center	FTG	Footing	PU	Pipe Underdrain	SALV	Salvaged	VIT	Vitrified
Δ	Central Angle or Delta	FDN	Foundation	PUDT	Pipe Underdrain Drain Tile	SAN S	Sanitary Sewer	VOL	Volume
m3	Cubic Meter	GN	Grid North			SEC	Section	WM	Water Main
CONC	Concrete	ha	Hectare	PUU	Pipe Underdrain Unperforated	SHLDR	Shoulder	WV	Water Valve
CORR	Corrugated	HR	Handicap Ramp			SHR	Shrinkage	W	Well
CACP	Corrugated Aluminum Culvert Pipe	HT	Height	PT	Point	SW	Sidewalk	W	West
CAPA	Corrugated Aluminum Pipe Arch	HES	High Early Strength	PC	Point of Curvature	S	South	WB	Westbound
CSCP	Corrugated Steel Culvert Pipe	CWT	Hundredweight	PI	Point of Intersection	SB	Southbound	YD	Yard
CSPA	Corrugated Steel Pipe Arch	HYD	Hydrant	PRC	Point of Reverse Curvature	SP	Special		
CSPCP	Corrugated Steel Pipe Cattle Pass	IN DIA	Inch Diameter			SC	Special Crossing		
CO	County	INL	Inlet	PT	Point of Tangency	SPECS	Specifications		
CTH	County Trunk Highway	ID	Inside Diameter	POC	Point on Curve	SQ	Square		
CR	Creek	INTERS	Intersection	POT	Point on Tangent	SF or SQ FT	Square Feet		
CR	Crushed	I	Intersection Angle	PVC	Polyvinyl Chloride	m2	Square Meter		
CY or CUYD	Cubic Yard	INV	Invert	PCC	Portland Cement Concrete	SY or SQ YD	Square Yard		
CULT	Cultivated	IP	Iron Pipe or Pin			STD	Standard		
CULV	Culvert	JT	Joint	LB	Pound	SDD	Standard Detail Drawings		
CP	Culvert Pipe	JCT	Junction	PSI	Pounds Per Square Inch	STH	State Trunk Highways		
C & G	Curb and Gutter	kg	Kilogram	PE	Private Entrance	STA	Station		
(D)	Deed	km	Kilometer	PROJ	Project	SSD	Stopping Sight Distance		
DEF	Deformed	kPa	Kilopascal	QCD	Quitclaim Deed	SS	Storm Sewer		
D	Degree of Curve	LC	Land Contract	R	Radius	SPP	Structural Plate Pipe		
DHV	Design Hour Volume	LHF	Left-Hand Forward	RP	Radius Point	SPPA	Structural Plate Pipe Arch		
DIA	Diameter	L	Length of Curve	RR	Railroad	STR	Structure or Structural		
D	Directional Distribution	LIN FT or LF	Linear Foot	RY	Railway	SUBD	Subdivision		
DISCH	Discharge	L	Liter	R	Range	SE	Superelevation		
		LC	Long Chord of Curve	RECY	Recycled	SURF	Surface		
		LS	Lump Sum	RL or R/L	Reference Line	SL or S/L	Survey Line		
		MAINT	Maintenance	RP	Reference Point	T	Tangent		
		MGR	Manager	RCCP	Reinforced Concrete Culvert Pipe	TEL	Telephone		
		MH	Manhole			TEMP	Temporary		

GENERAL NOTES

- CRUSHED AGGREGATE BASE COURSE, IS CRUSHED STONE
- NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.
- DISTURBED AREA WITHIN THE RIGHT-OF-WAY SHALL BE FERTILIZED, SEEDED AND MULCHED AS DIRECTED BY THE ENGINEER.
- THE LOCATION OF DRIVEWAYS ARE SHOWN ON PLANS.
- TACK COAT HAS BEEN ESTIMATED AT AN APPLICATION RATE OF 0.025 GALLONS PER SQUARE YARD AND WILL BE PLACED BETWEEN LAYERS OF ASPHALTIC PAVEMENT.
- 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.
- THE ASPHALTIC CONCRETE PAVEMENT, TYPE E-1, SHALL BE CONSTRUCTED AS FOLLOWS.
- 5-INCH PAVEMENT: 2-1 1/2-INCH NOMINAL LIFTS; 1-2-INCH NOMINAL LIFT
- WHEN THE QUANTITY OF THE ITEM 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.

<u>UTILITY OWNERS:</u>	<u>GAS DISTRIBUTION:</u> Wisconsin Fuel & Light 211 Forest Street Wausau, WI 54402 Attn.: Dee Medhin 1-715-845-4223	<u>TELEPHONE:</u> Verizon 521 4th Street Wausau, WI 54403 Attn.: Janet Mitweide 1-715-847-1511	<u>WATER & SANITARY SEWER:</u> Village of Rothschild 211 Grand Avenue Rothschild, WI 54474 Attn.: George Peterson 1-715-359-3660	<u>ELECTRIC:</u> Wisconsin Public Service 1700 Sherman Street Wausau, WI 54401 Attn.: Clay Vircks 1-715-848-7371	<u>CABLE TELEVISION:</u> Charter Communications 400 Scott Street Wausau, WI 54401 Attn.: Jeff Kulaf 1-715-845-4223	<u>DEPARTMENT OF NATURAL RESOURCES:</u> Department of Natural Resources 473 Griffith Avenue Wisconsin Rapids, WI 54494 Attn.: Cameron Bump 1-715-421-7800	<u>DIGGERS HOTLINE:</u> Diggers Hotline 1-800-242-8511
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SHEETS

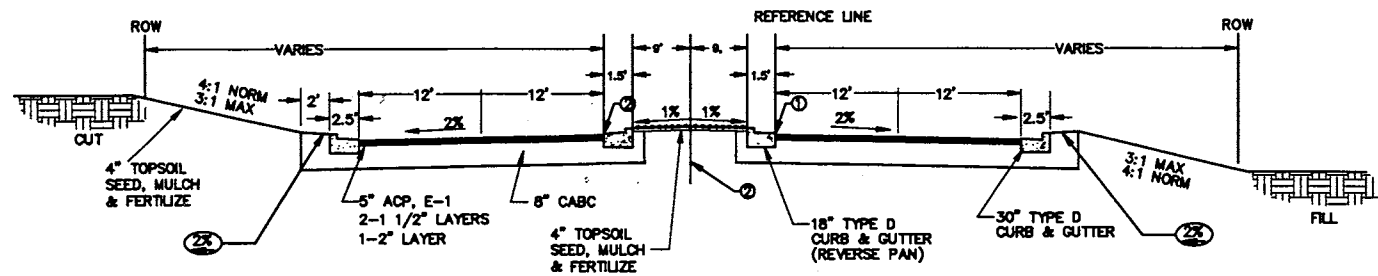
PLAN/PROFILE

CTH XX 5.0 - 5.3
TRAILWOOD LANE 5.4

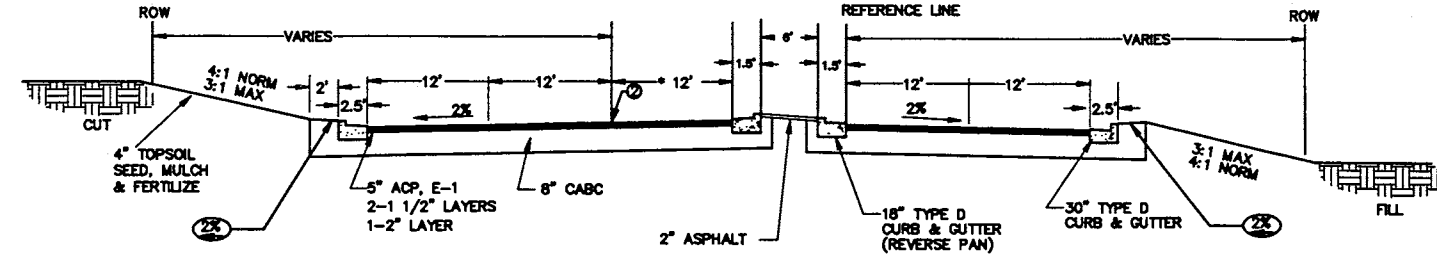
CROSS- SECTION

9.0 - 9.10
9.11

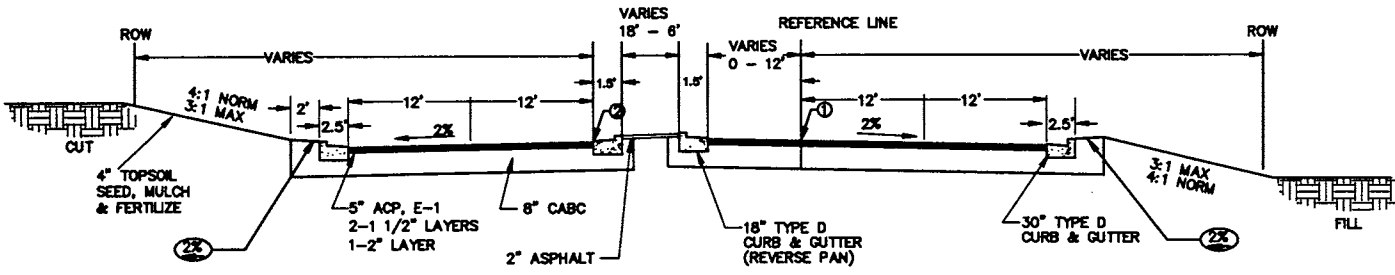




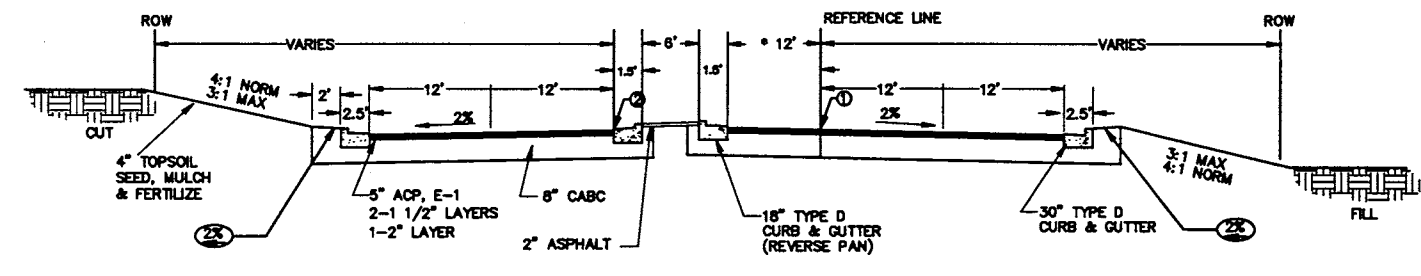
TYPICAL SECTION - CTHXX
 STA 0+37.10 - STA 2+45.39
 STA 6+9.70 - STA 12+50



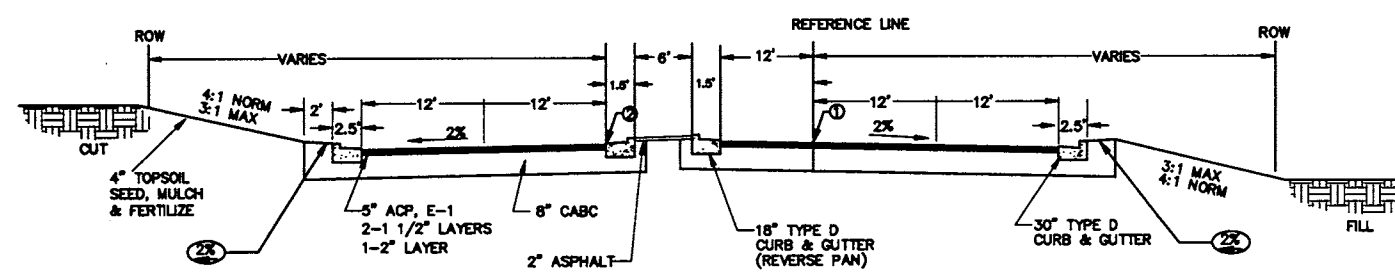
TYPICAL SECTION - CTHXX
 STA 13+9.70 - STA 14+38.39
 * TRANSITION - 12' @ STA 14+38.39 to 0' @ STA 15+62.81



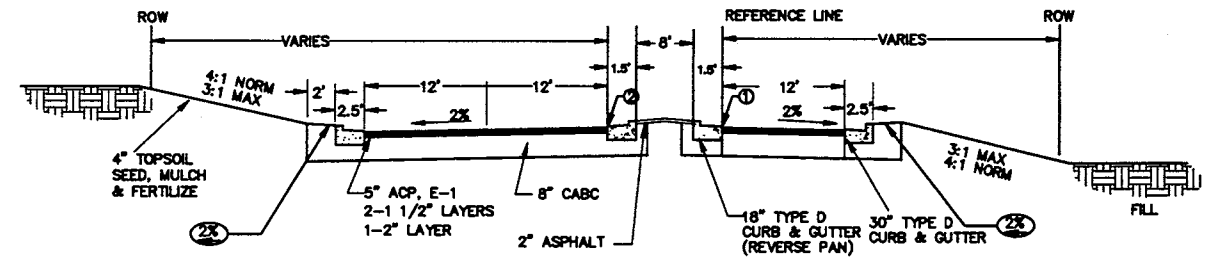
TYPICAL SECTION - CTHXX
 STA 2+45.39 - STA 3+65.23



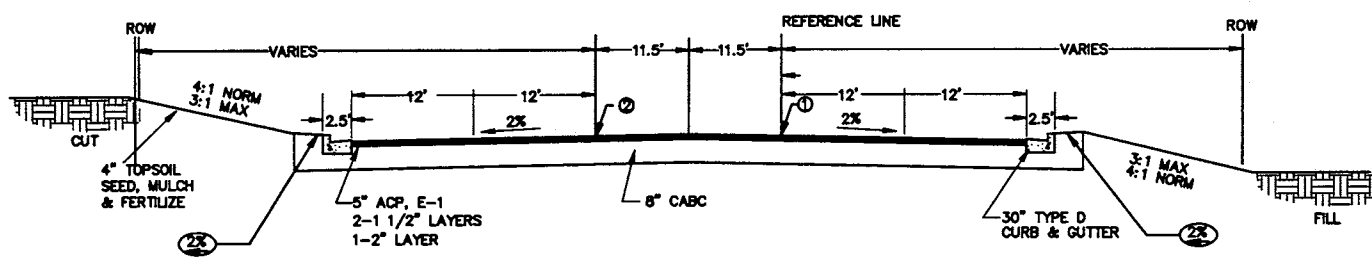
TYPICAL SECTION - CTHXX
 STA 14+38.39 - STA 16+87.83
 * TRANSITION - 0' @ STA 14+38.39 to 12' @ STA 15+70.91



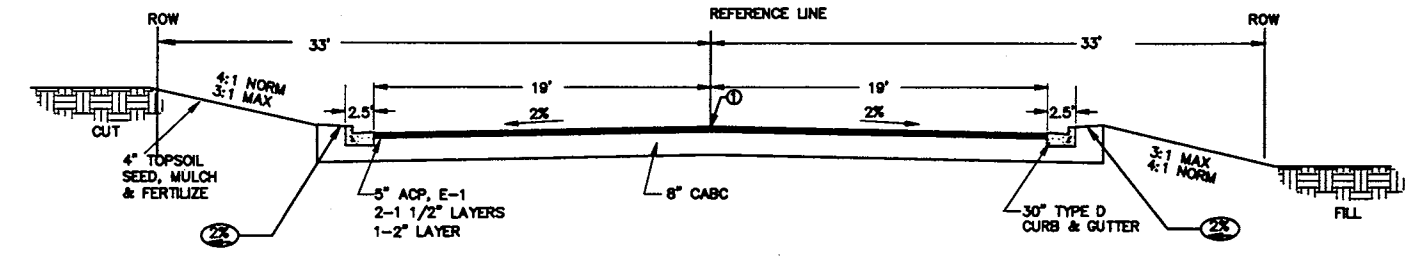
TYPICAL SECTION - CTHXX
 STA 3+65.23 - STA 5+35.74



TYPICAL SECTION - CTHXX
 STA 18+12.14 - STA 19+72.10

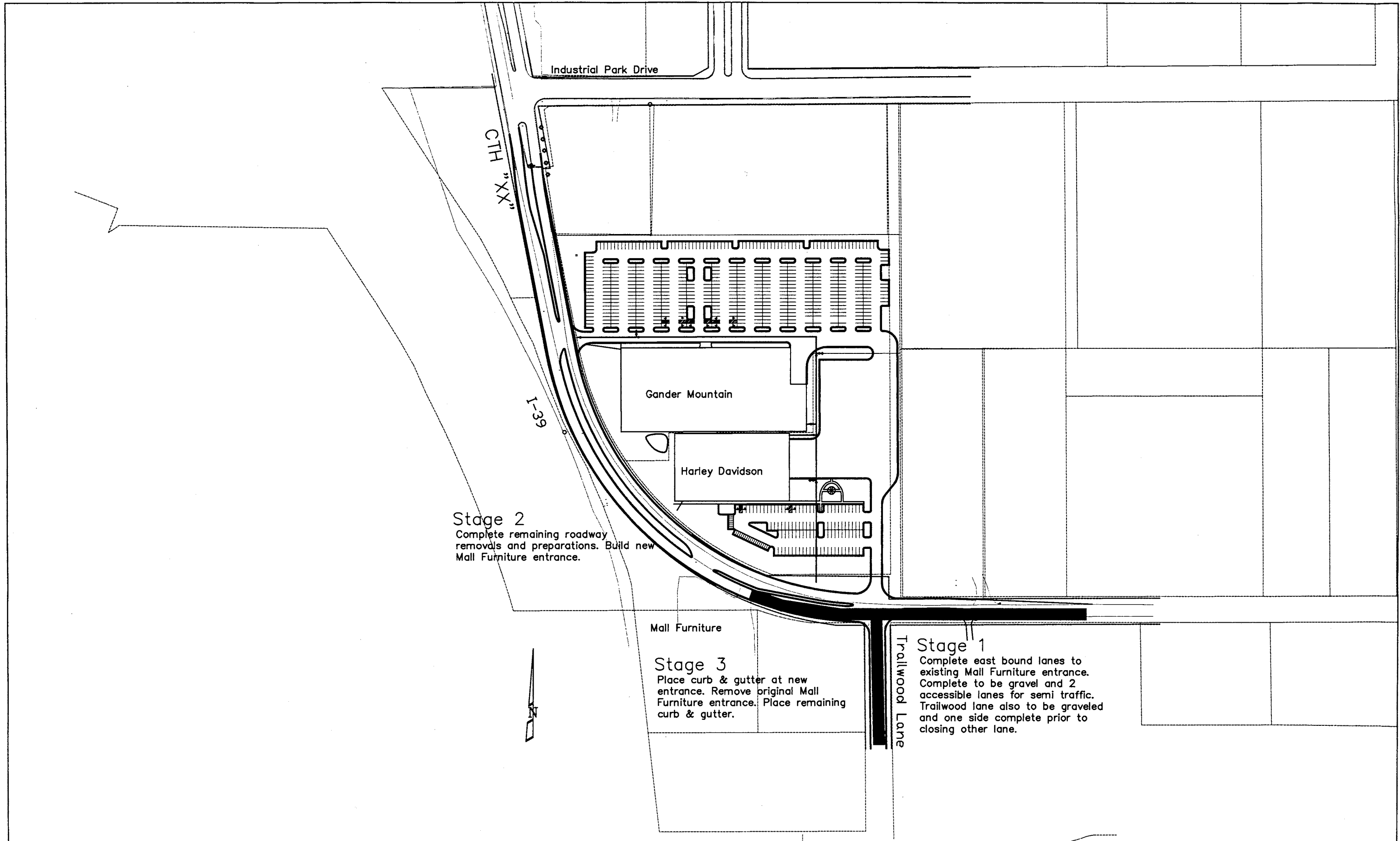


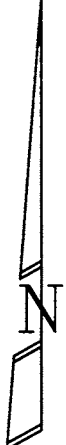
TYPICAL SECTION - CTHXX
 STA 5+35.74 - STA 6+9.70
 STA 12+50 - STA 13+18.82
 STA 16+87.83 - STA 17+68.38



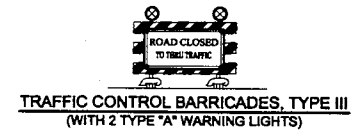
TYPICAL SECTION - TRAILWOOD LANE
 STA 0+00 - STA 3+25

- ① POINT REFERRED TO ON PROFILE & PLAN REFERENCE LINE
- ② POINT REFERRED TO ON PROFILE





- ### GENERAL TRAFFIC CONTROL NOTES
- TRAFFIC CONTROL DRUMS USED ON TAPERS SHALL HAVE WARNING LIGHTS, TYPE C
 - DRUMS ARE CONTINUOUS AT 25 FEET (C-C) SPACING EXCEPT AT CROSS ROADS, IN TAPERS AND AT ENTRANCES
 - ALL SIGNS 48" X 48" UNLESS NOTED OTHERWISE
 - THE EXACT LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER
 - ALL SIGNS INAPPROPRIATE TO THE WORK ZONE TRAFFIC CONTROL (WZTC), INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER, IF IT IS NECESSARY TO DISTURB SIGNS ON SIDEROADS, SAID SIGNS SHALL BE RE-ESTABLISHED IMMEDIATELY AFTER CONSTRUCTION
 - "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE
 - TEMPORARY MARKING ON EXISTING PAVEMENT TO REMAIN SHALL BE REMOVABLE TAPE



CTH XX DETOUR
ROAD OPEN TO
TRAIL WOOD LANE
MALL FURNITURE
COUNTRY HEARTH BREAD
CARPENTERS UNION
BRB AUTO BODY
TRUCK COUNTRY
L&S ELETRIC
LAMER BUS
CULLIGAN
POMPS TIRE

48" X 96"

CTH XX DETOUR
→
MALL FURNITURE
COUNTRY HEARTH BREAD
CARPENTERS UNION
BRB AUTO BODY
TRUCK COUNTRY
L&S ELETRIC
LAMER BUS
CULLIGAN
POMPS TIRE

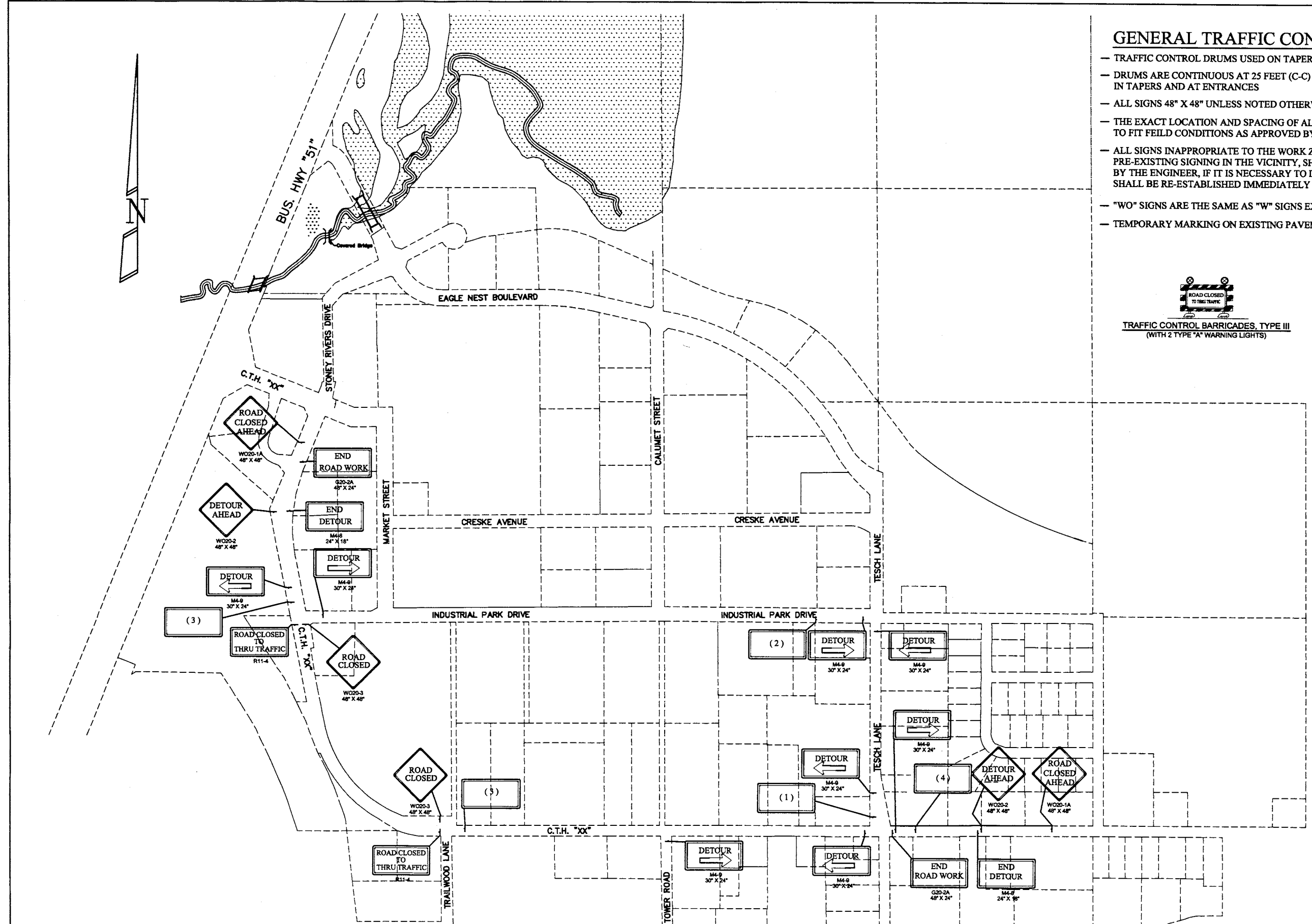
48" X 96"

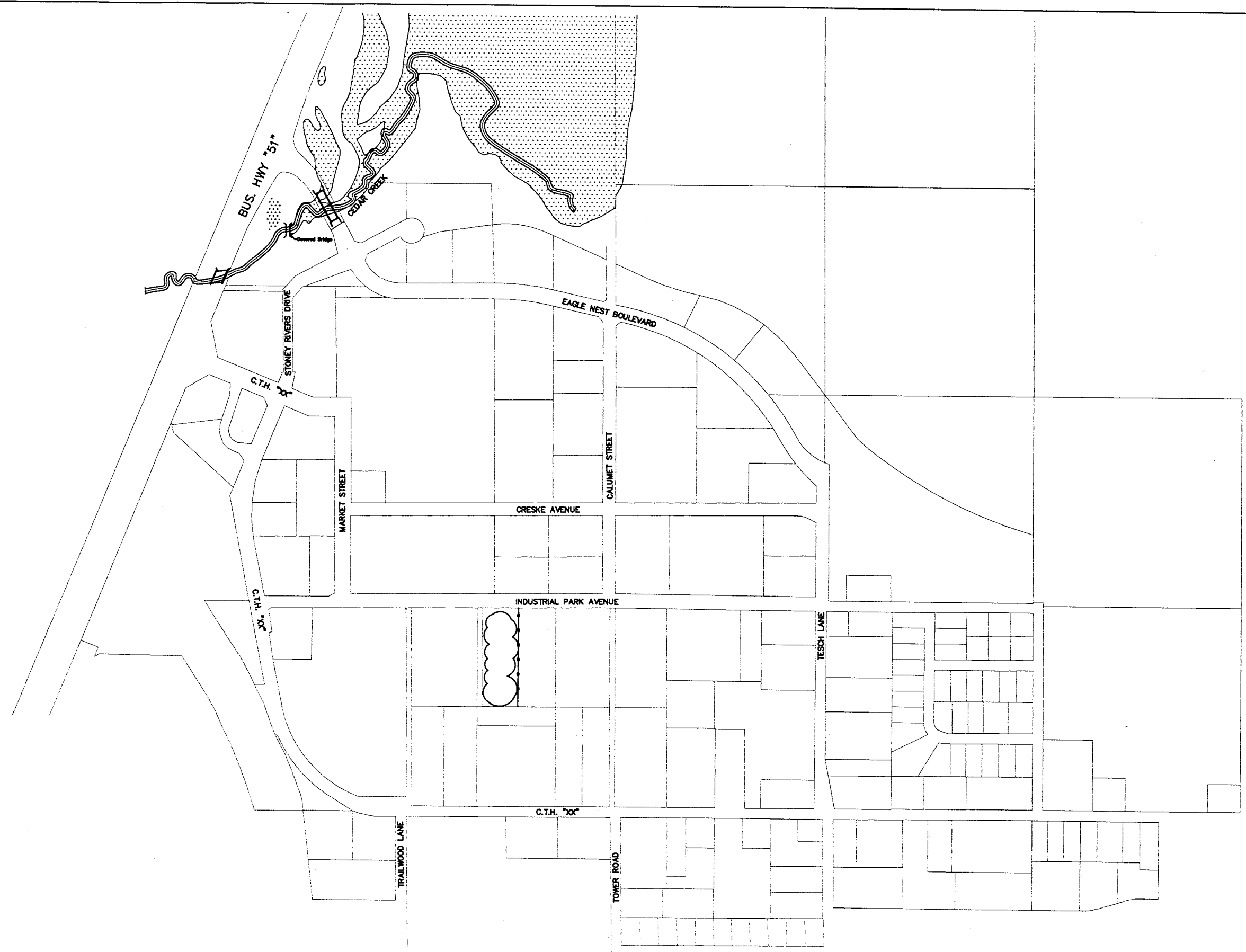
CTH XX DETOUR
←
MALL FURNITURE
COUNTRY HEARTH BREAD
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BRB AUTO BODY
TRUCK COUNTRY
L&S ELETRIC
LAMER BUS
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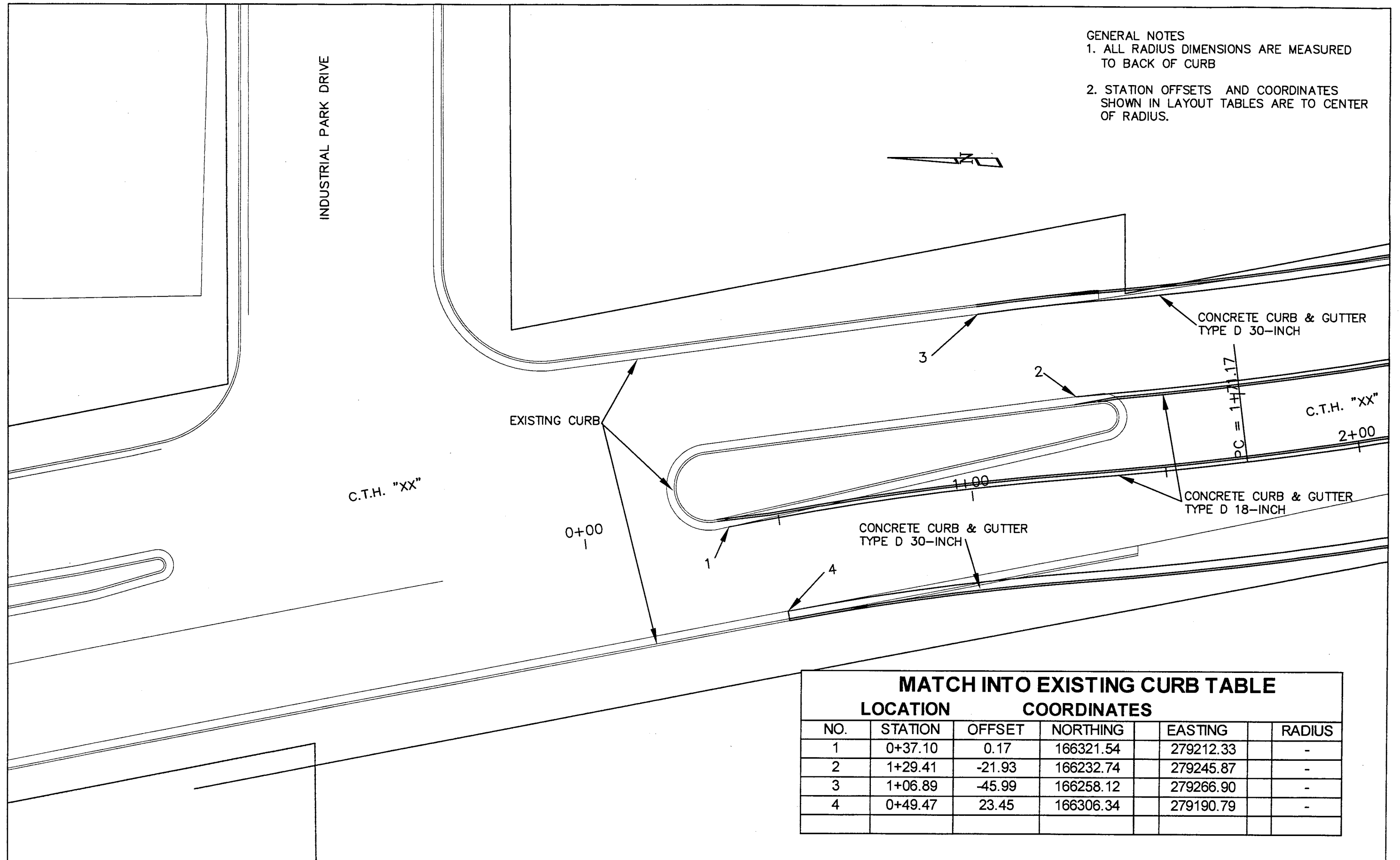
ROAD OPEN TO
TRAIL WOOD LANE
MALL FURNITURE
COUNTRY HEARTH BREAD
CARPENTERS UNION
BRB AUTO BODY
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48" X 96"

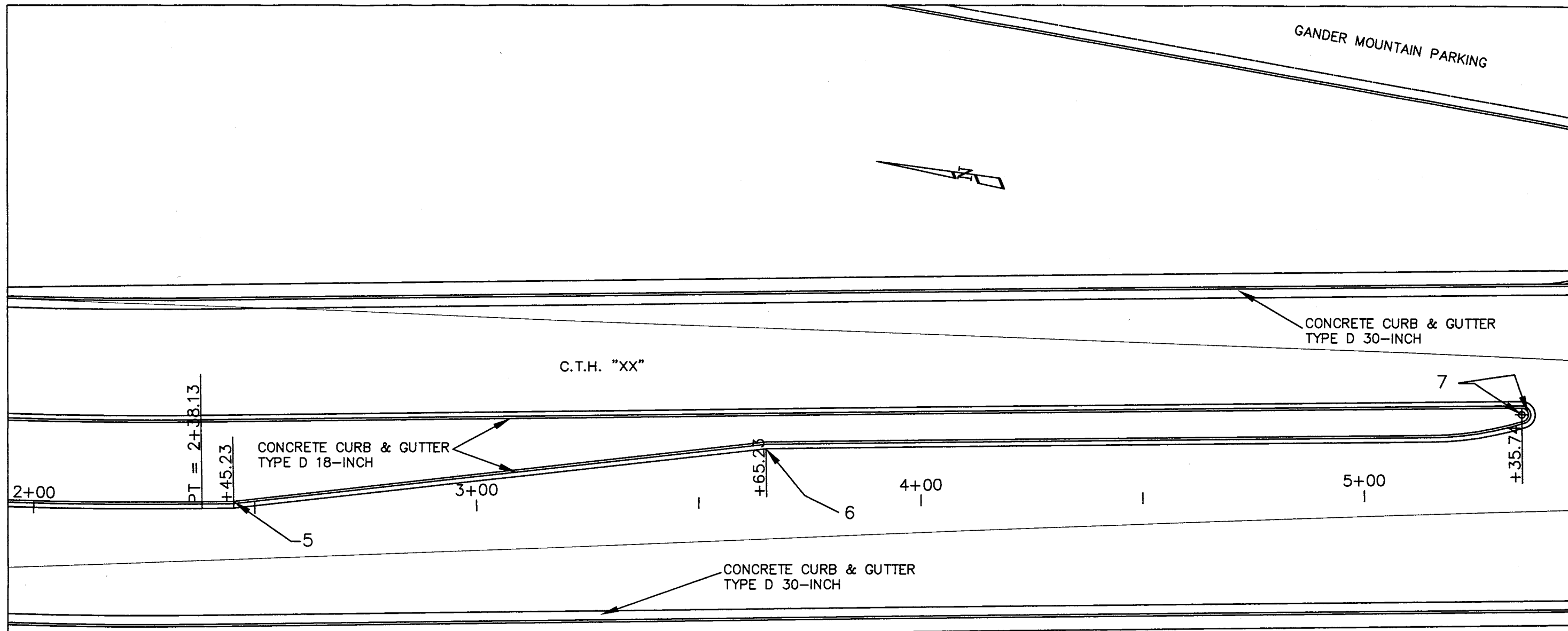




- GENERAL NOTES
 1. ALL RADIUS DIMENSIONS ARE MEASURED TO BACK OF CURB
 2. STATION OFFSETS AND COORDINATES SHOWN IN LAYOUT TABLES ARE TO CENTER OF RADIUS.



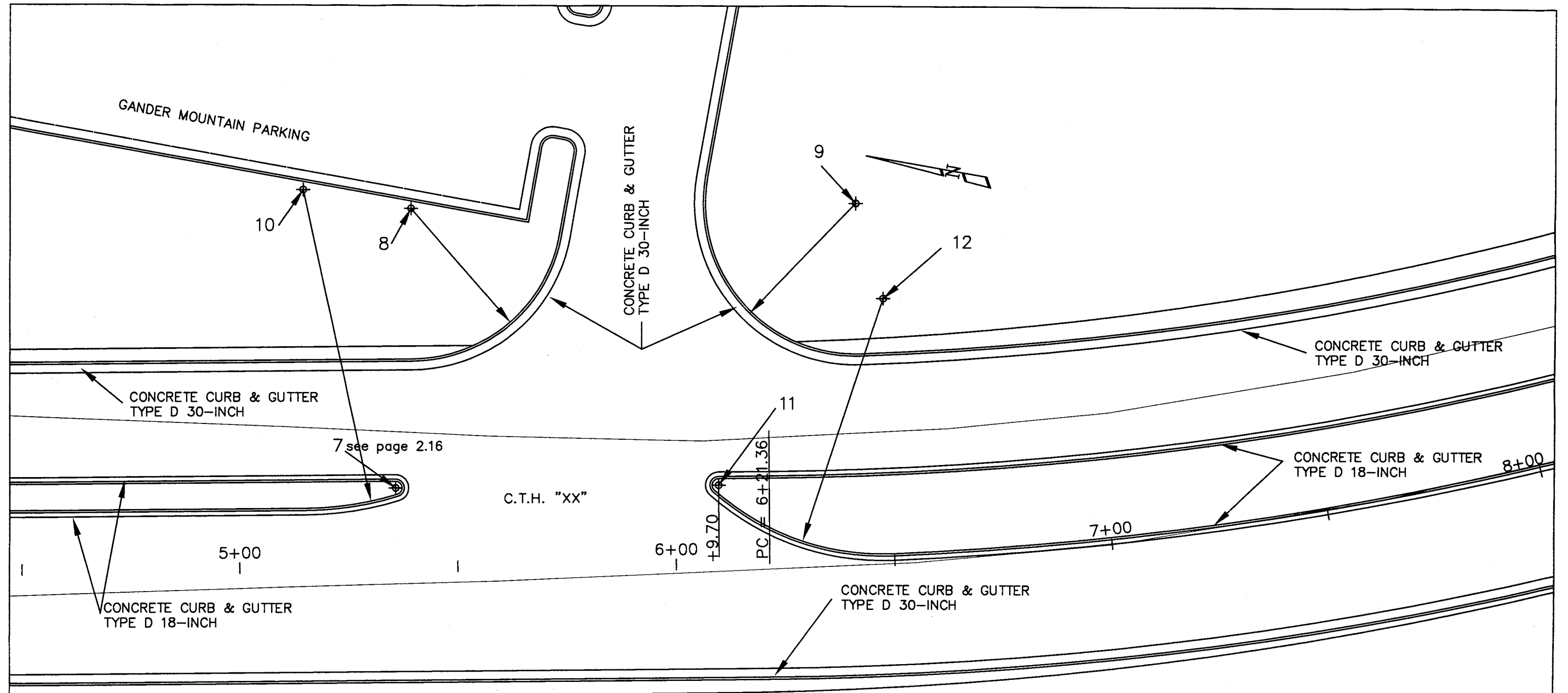
MATCH INTO EXISTING CURB TABLE						
LOCATION			COORDINATES			
NO.	STATION	OFFSET	NORTHING	EASTING		RADIUS
1	0+37.10	0.17	166321.54	279212.33		-
2	1+29.41	-21.93	166232.74	279245.87		-
3	1+06.89	-45.99	166258.12	279266.90		-
4	0+49.47	23.45	166306.34	279190.79		-



GENERAL NOTES

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2. STATION OFFSETS AND COORDINATES SHOWN IN LAYOUT TABLES ARE TO CENTER OF RADIUS.

RADIUS LAYOUT TABLE						
LOCATION			COORDINATES			
NO.	STATION	OFFSET	NORTHING	EASTING		RADIUS
5	2+45.23	0.00	166115.46	279241.16		-
6	3+65.23	-12.00	165999.88	279275.59		-
7	5+35.74	-18.00	165033.56	279313.67		1.00

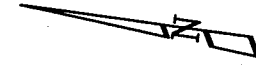


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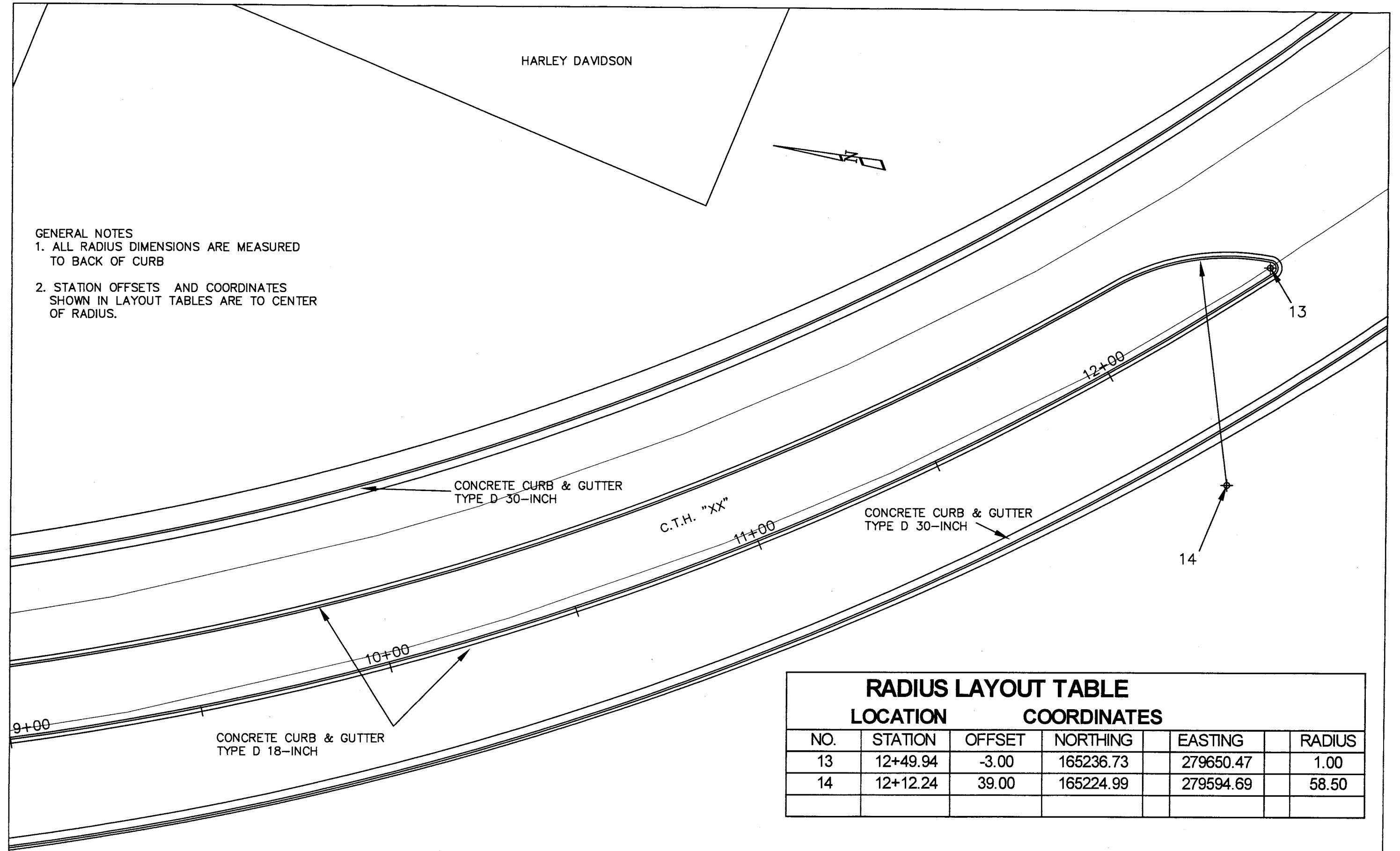
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LOCATION		COORDINATES			
NO.	STATION	OFFSET	NORTHING	EASTING	RADIUS
8	5+39.84	-82.00	165841.61	279377.29	34.50
9	6+44.00	-82.00	165741.66	279396.79	34.50
10	5+15.25	-86.50	165866.61	279377.07	72.50
11	6+09.70	-18.00	165760.93	279327.63	1.00
12	6+49.86	-60.00	165731.61	279376.51	58.00

HARLEY DAVIDSON



GENERAL NOTES

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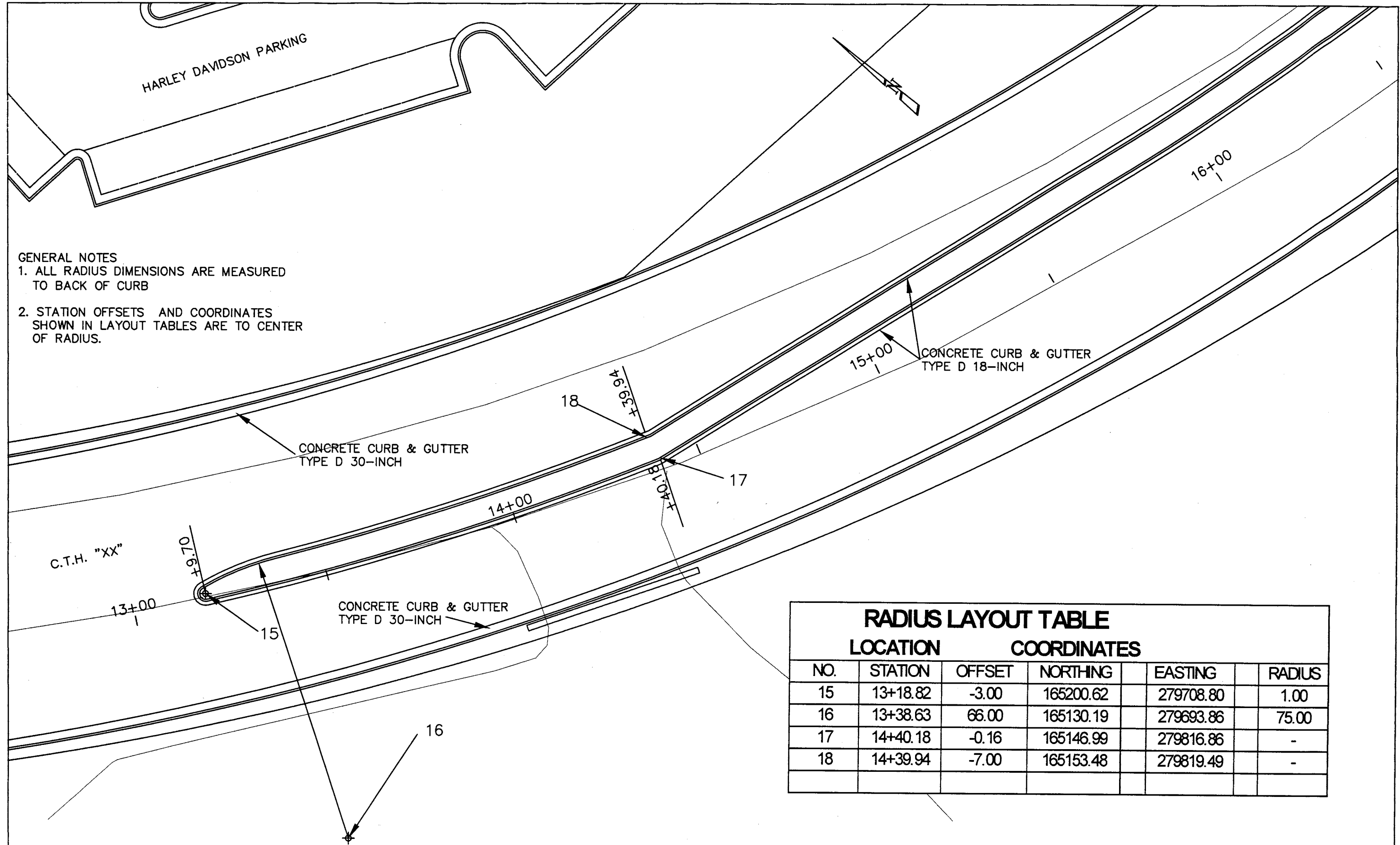


RADIUS LAYOUT TABLE					
LOCATION		COORDINATES			
NO.	STATION	OFFSET	NORTHING	EASTING	RADIUS
13	12+49.94	-3.00	165236.73	279650.47	1.00
14	12+12.24	39.00	165224.99	279594.69	58.50

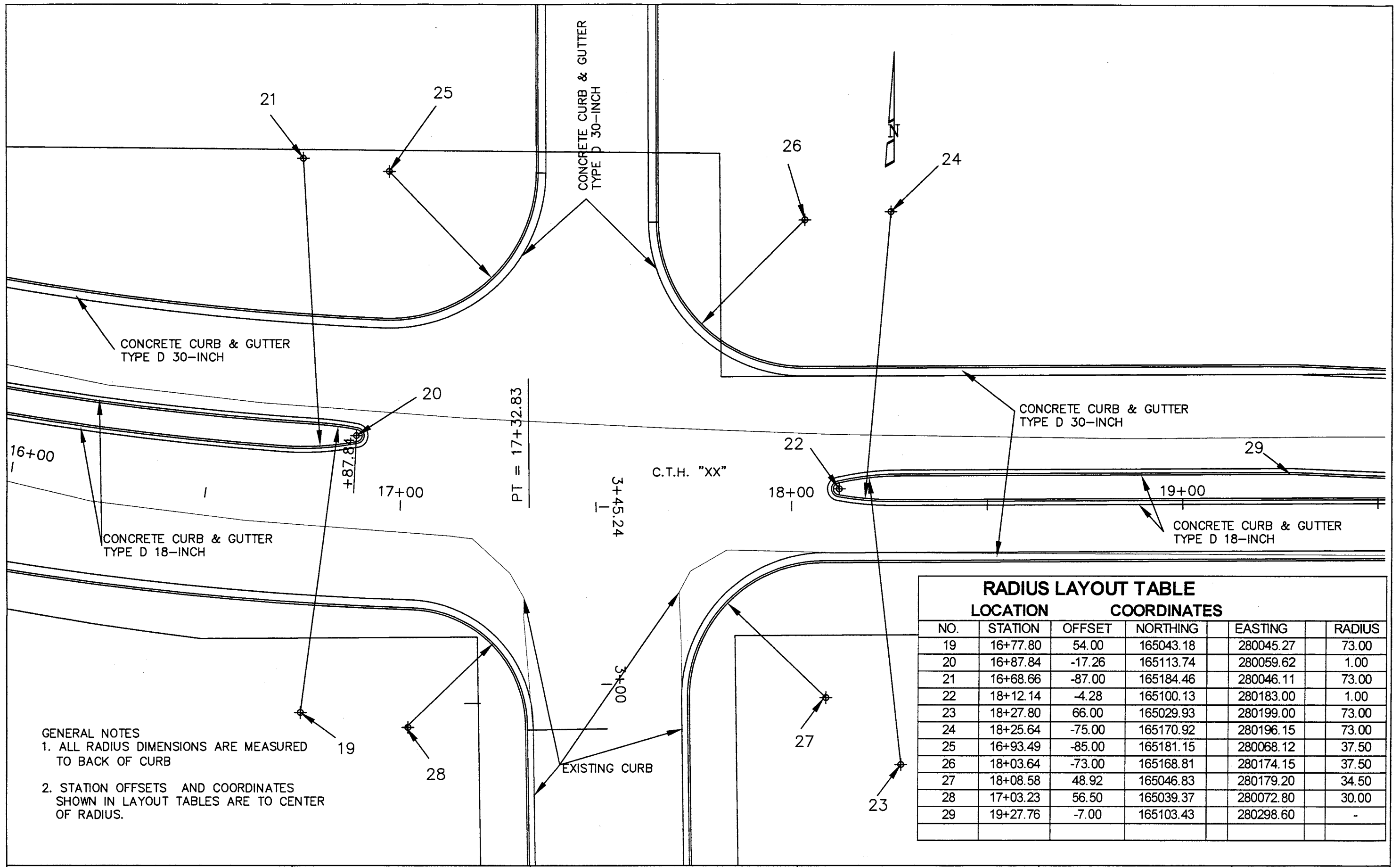
HARLEY DAVIDSON PARKING

GENERAL NOTES

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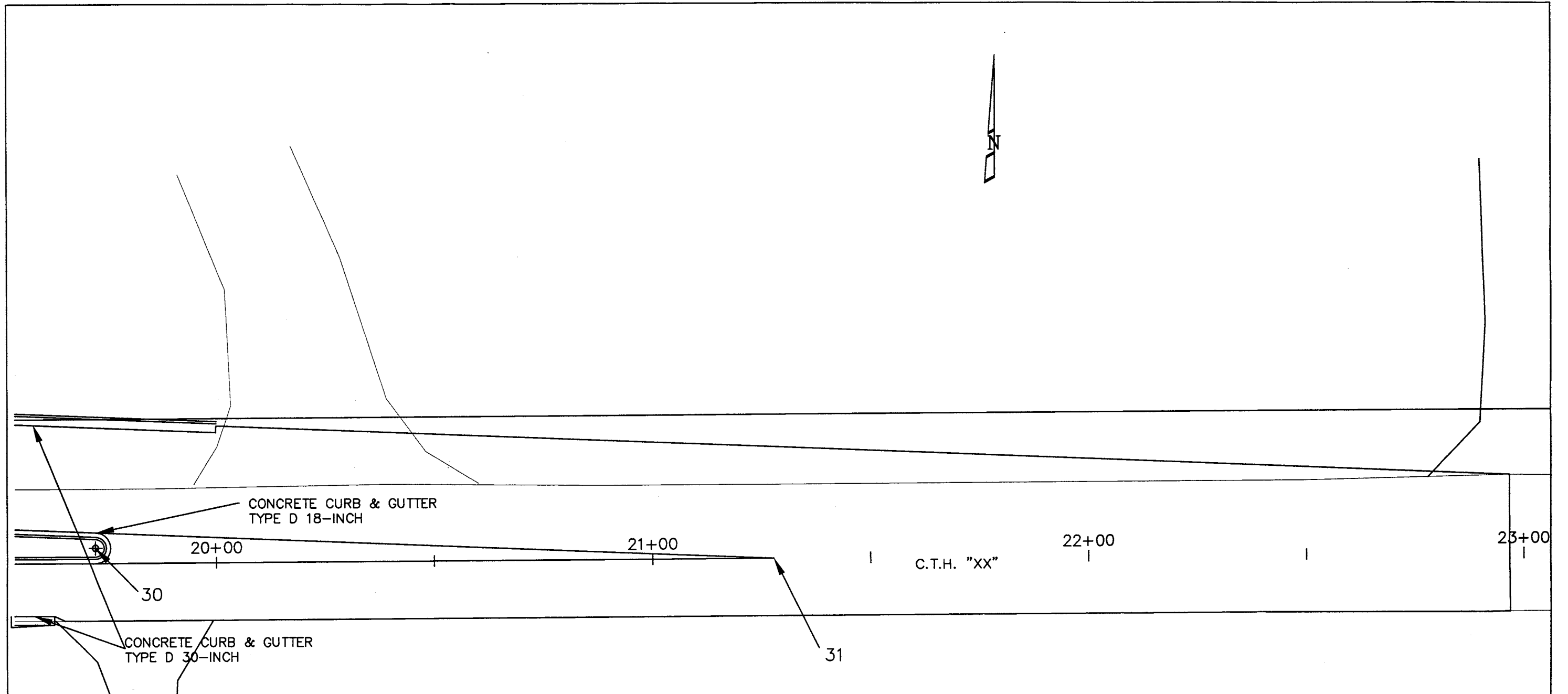


RADIUS LAYOUT TABLE					
LOCATION		COORDINATES			
NO.	STATION	OFFSET	NORTHING	EASTING	RADIUS
15	13+18.82	-3.00	165200.62	279708.80	1.00
16	13+38.63	66.00	165130.19	279693.86	75.00
17	14+40.18	-0.16	165146.99	279816.86	-
18	14+39.94	-7.00	165153.48	279819.49	-



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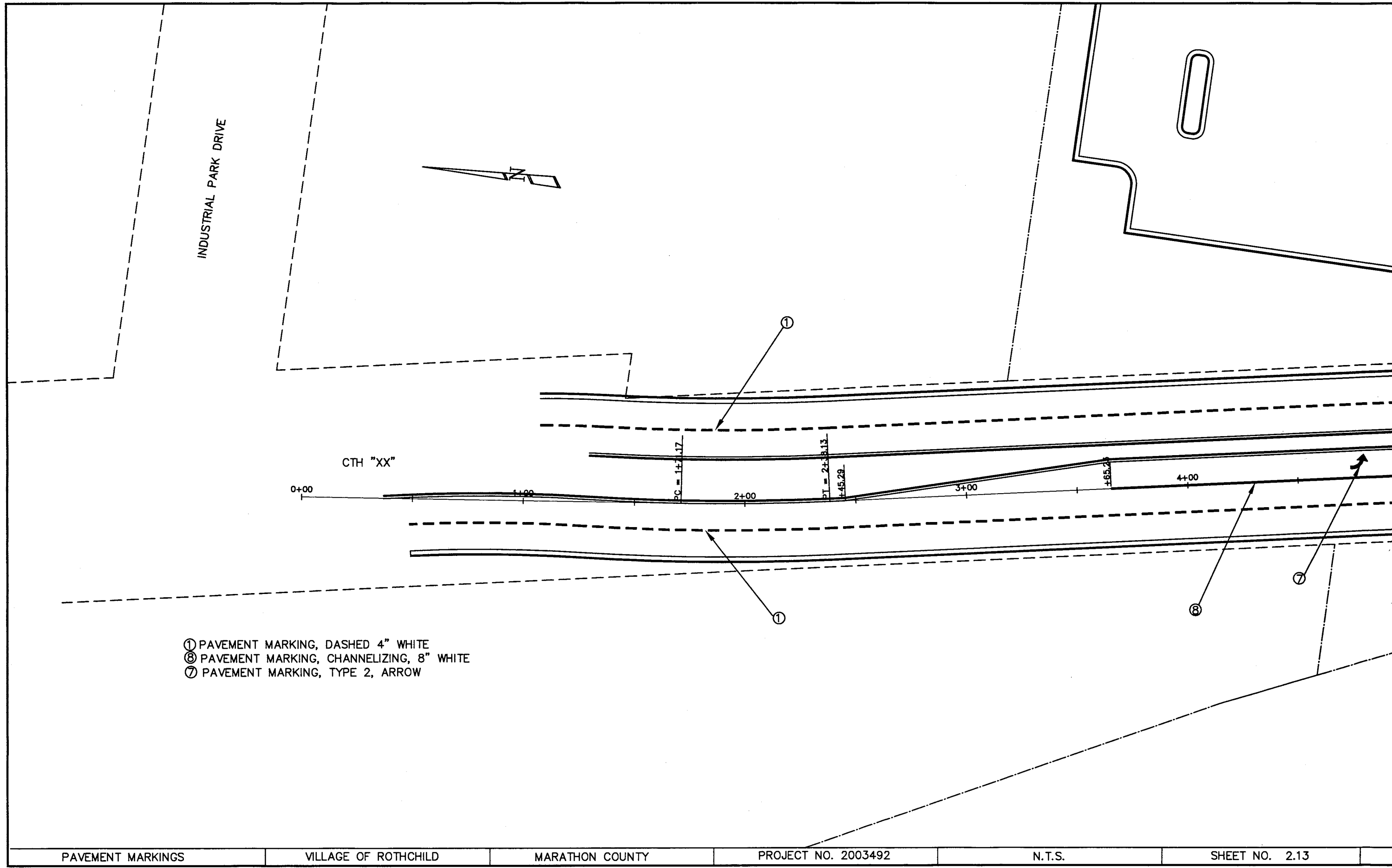
RADIUS LAYOUT TABLE					
LOCATION		COORDINATES			
NO.	STATION	OFFSET	NORTHING	EASTING	RADIUS
19	16+77.80	54.00	165043.18	280045.27	73.00
20	16+87.84	-17.26	165113.74	280059.62	1.00
21	16+68.66	-87.00	165184.46	280046.11	73.00
22	18+12.14	-4.28	165100.13	280183.00	1.00
23	18+27.80	66.00	165029.93	280199.00	73.00
24	18+25.64	-75.00	165170.92	280196.15	73.00
25	16+93.49	-85.00	165181.15	280068.12	37.50
26	18+03.64	-73.00	165168.81	280174.15	37.50
27	18+08.58	48.92	165046.83	280179.20	34.50
28	17+03.23	56.50	165039.37	280072.80	30.00
29	19+27.76	-7.00	165103.43	280298.60	-

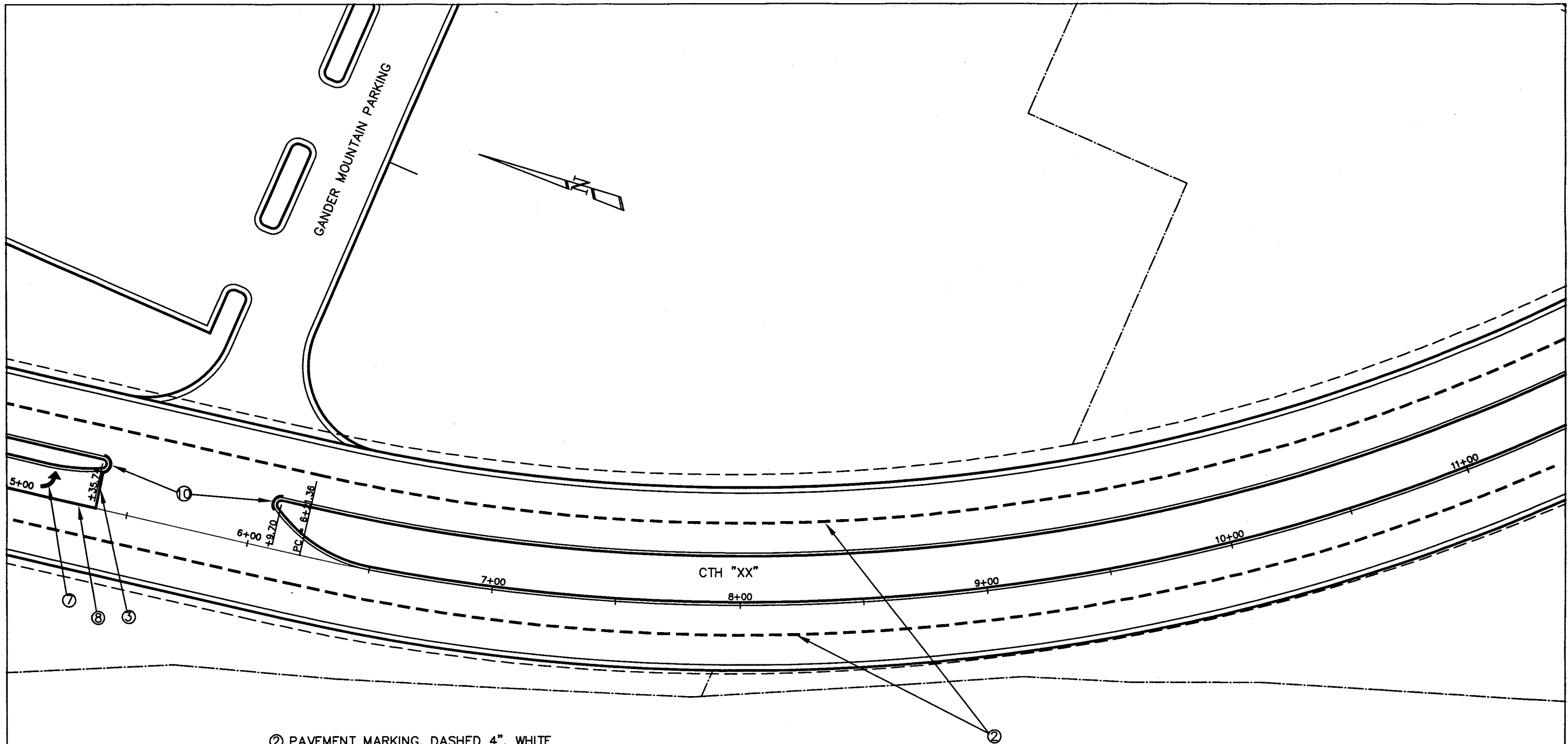


GENERAL NOTES

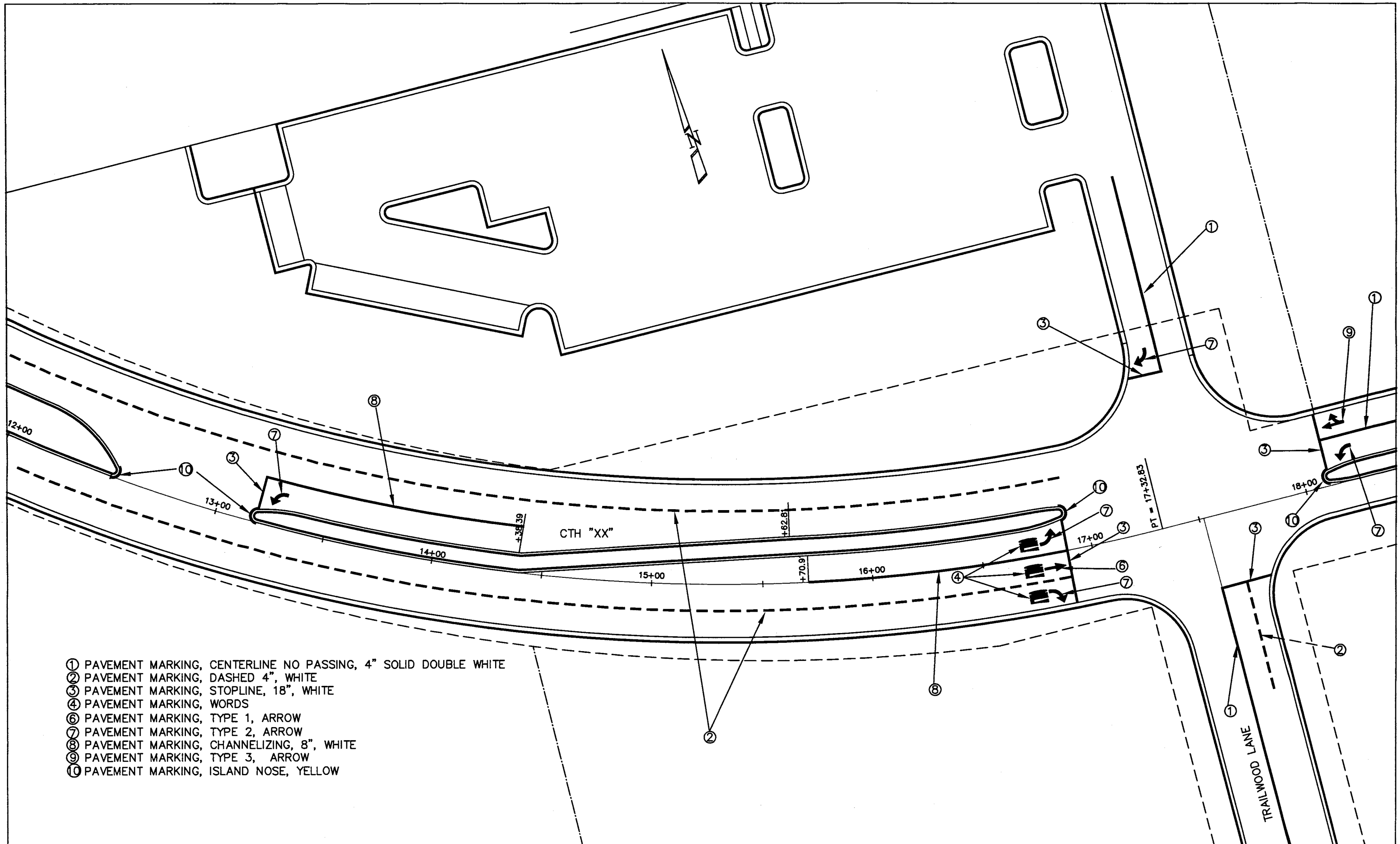
1. ALL RADIUS DIMENSIONS ARE MEASURED TO BACK OF CURB
2. STATION, OFFSETS AND COORDINATES SHOWN IN LAYOUT TABLES ARE TO CENTER OF RADIUS.

RADIUS LAYOUT TABLE					
LOCATION		COORDINATES			
NO.	STATION	OFFSET	NORTHING	EASTING	RADIUS
30	19+94.40	-3	165099.76	280365.26	1
31	21+27.80	0	165097.42	280498.67	-

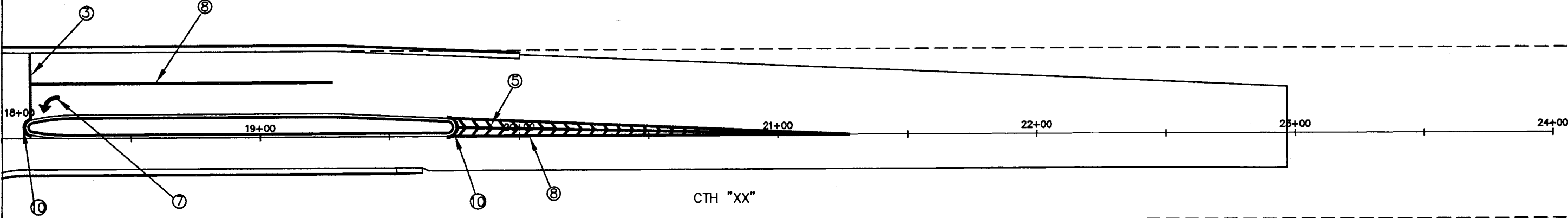




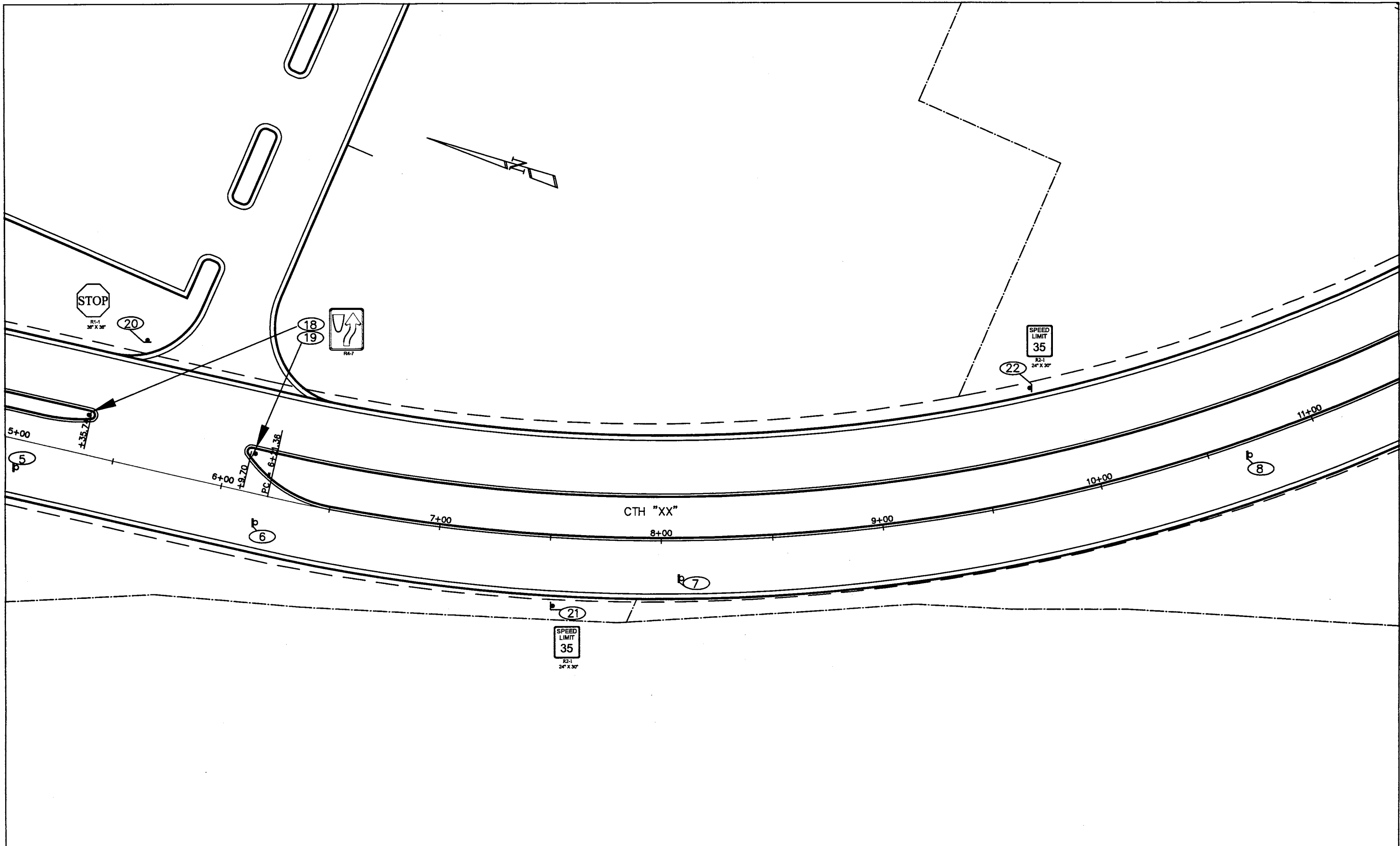
- ② PAVEMENT MARKING, DASHED 4", WHITE
- ③ PAVEMENT MARKING, STOPLINE, 18", WHITE
- ⑦ PAVEMENT MARKING, TYPE 2, ARROW
- ⑧ PAVEMENT MARKING, CHANNELIZING, 8", WHITE
- ⑩ PAVEMENT MARKING, ISLAND NOSE, YELLOW

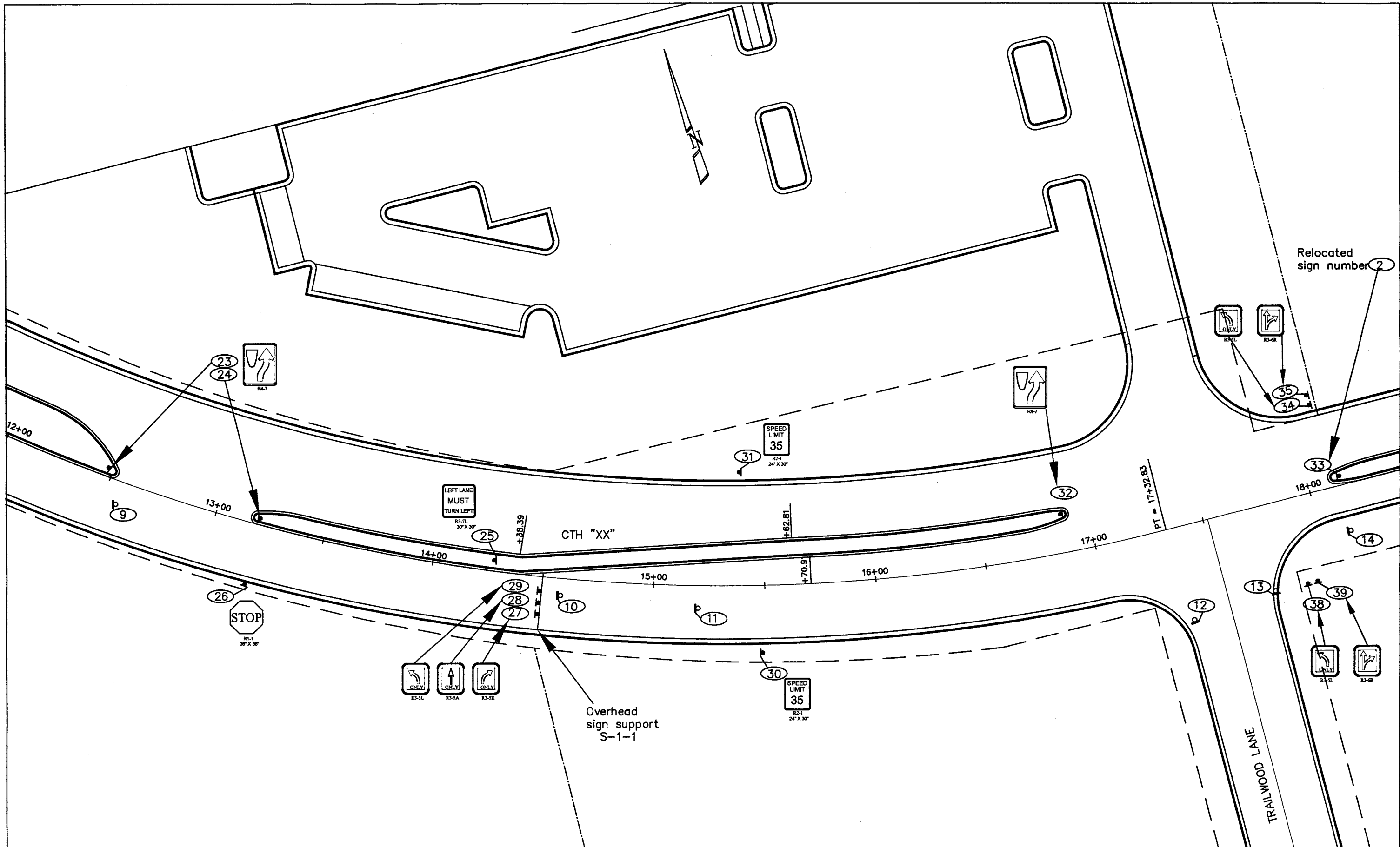


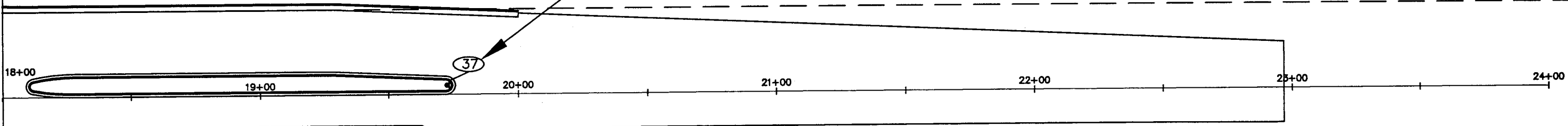
- ① PAVEMENT MARKING, CENTERLINE NO PASSING, 4" SOLID DOUBLE WHITE
- ② PAVEMENT MARKING, DASHED 4", WHITE
- ③ PAVEMENT MARKING, STOPLINE, 18", WHITE
- ④ PAVEMENT MARKING, WORDS
- ⑤ PAVEMENT MARKING, TYPE 1, ARROW
- ⑥ PAVEMENT MARKING, TYPE 2, ARROW
- ⑦ PAVEMENT MARKING, CHANNELIZING, 8", WHITE
- ⑧ PAVEMENT MARKING, TYPE 3, ARROW
- ⑨ PAVEMENT MARKING, ISLAND NOSE, YELLOW



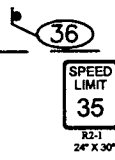
- ③ PAVEMENT MARKING, STOPLINE, 18", WHITE
- ⑤ PAVEMENT MARKING DIAGONAL, 12", WHITE
(10.0' C-C, TYPICAL)
- ⑦ PAVEMENT MARKING, TYPE 2, ARROW
- ⑧ PAVEMENT MARKING, CHANNELIZING, 8", WHITE
- ⑩ PAVEMENT MARKING, ISLAND NOSE, YELLOW

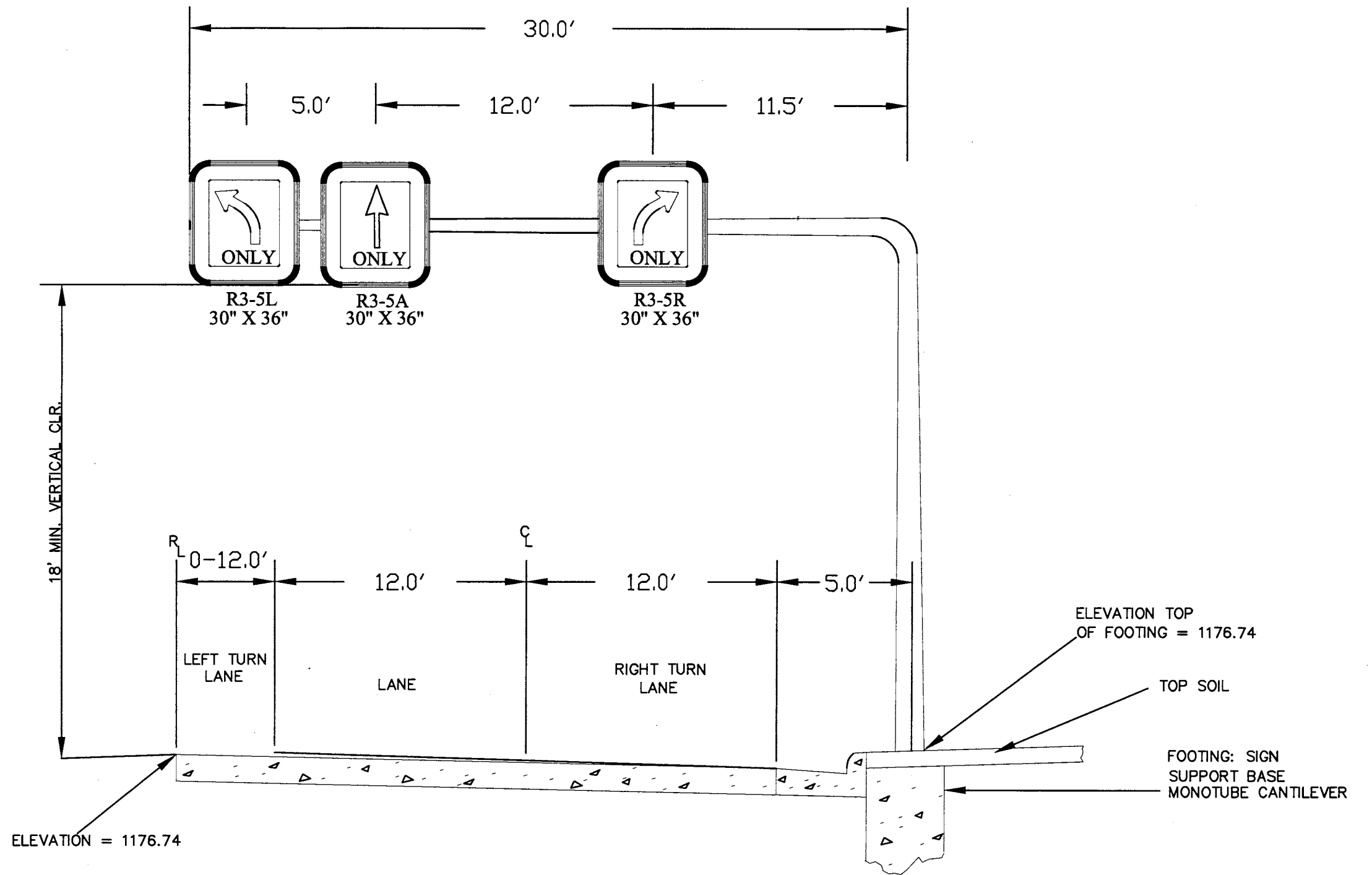






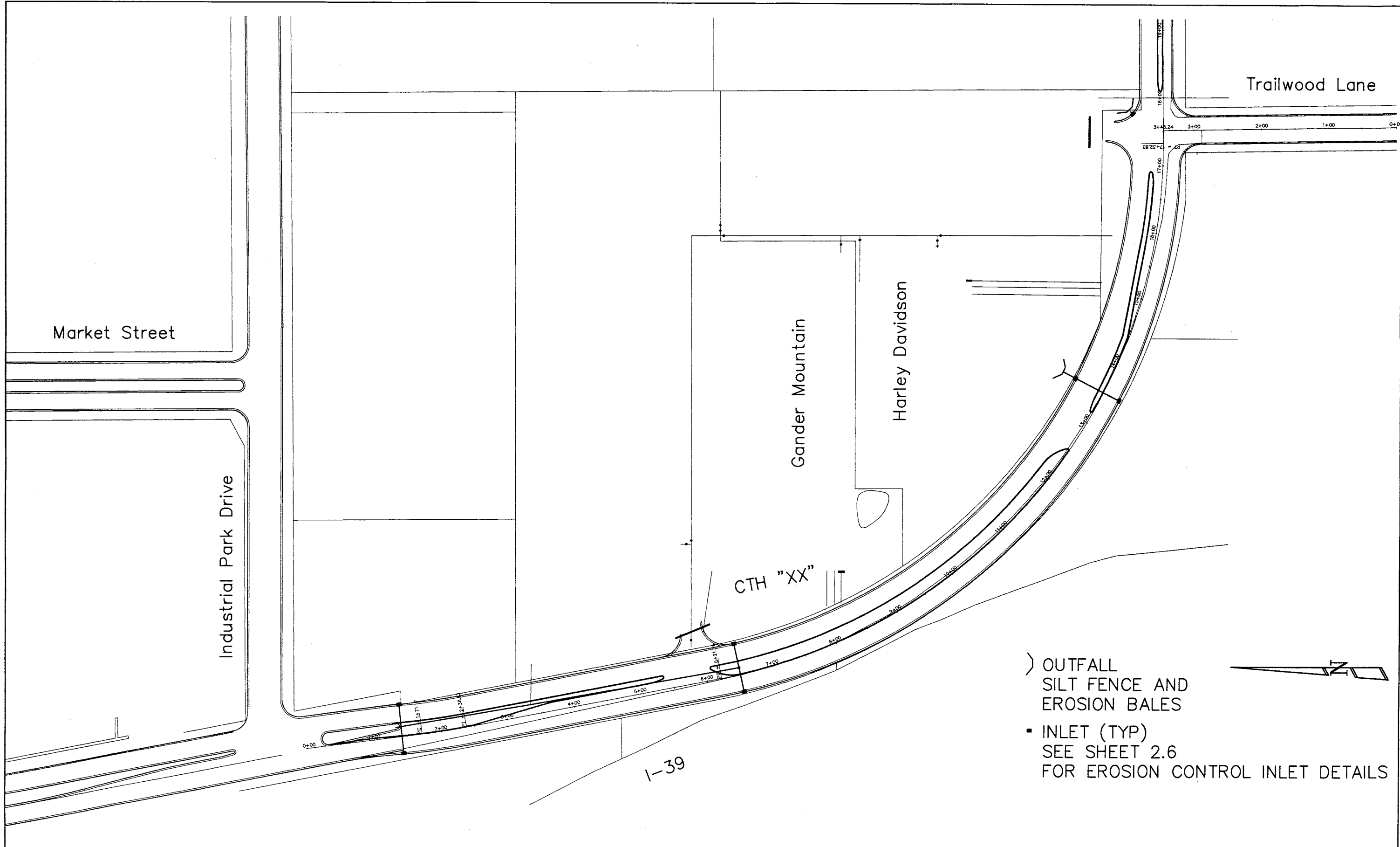
CTH "XX"





OVERHEAD SIGN SUPPORT, S-1-1

STATION 14+40 RT



Market Street

Industrial Park Drive

Gander Mountain

Harley Davidson

Trailwood Lane

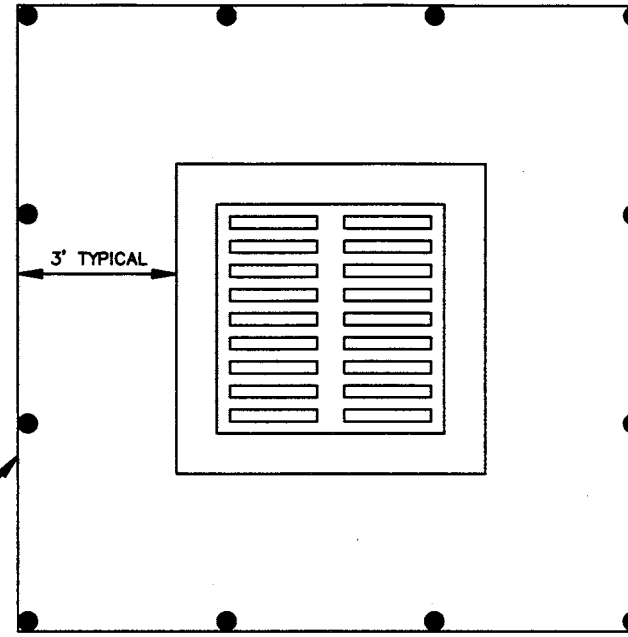
CTH "XX"

1-39

-) OUTFALL
SILT FENCE AND
EROSION BALES
- INLET (TYP)
SEE SHEET 2.6
FOR EROSION CONTROL INLET DETAILS



NOTE: EROSION CONTROL SHOWN AT INLET WITH MS COVER



PLACE SILT FENCE AROUND PERIMETER

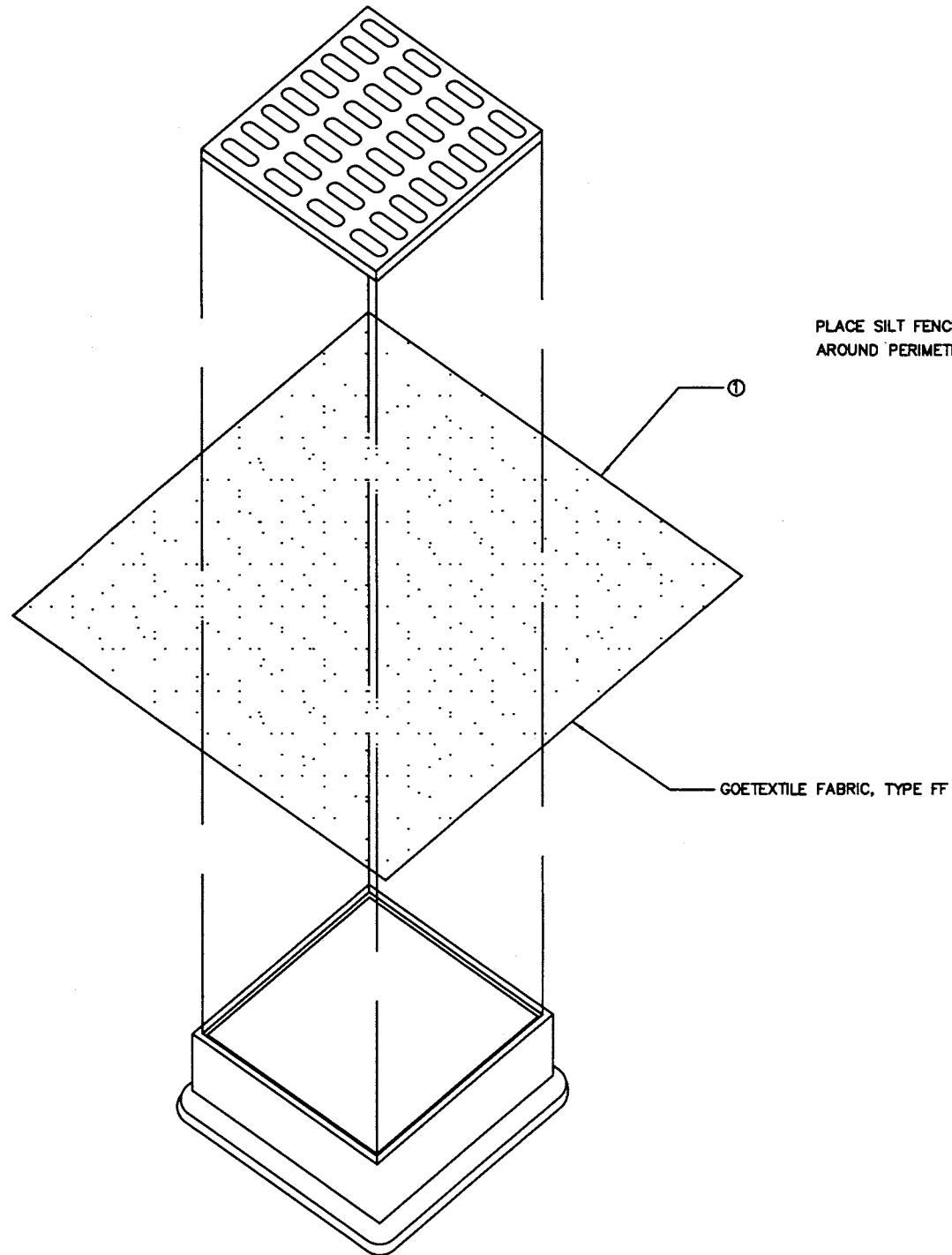
FABRIC SHALL BE PLACED AT THE ENGINEERS DISCRETION.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED FOR THE INLET PROTECTION TYPE SPECIFIED.

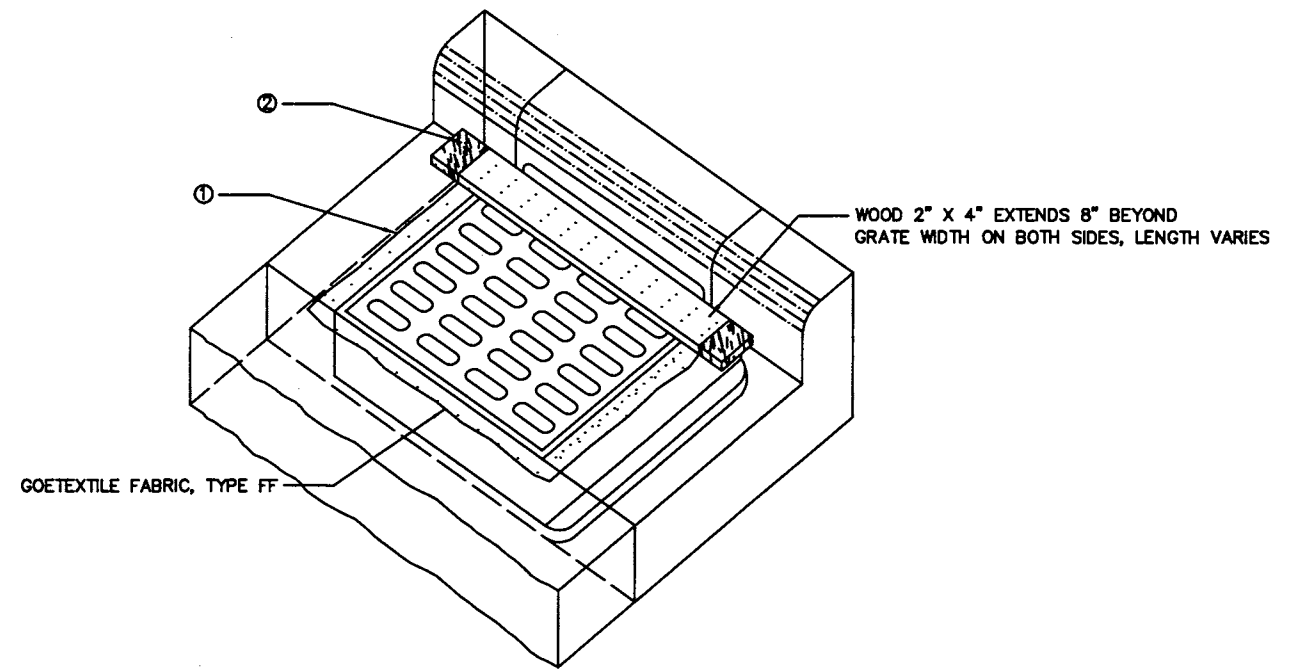
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN FALL INTO THE INLET ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- ① FABRIC SIZE SHALL BE 8" (MIN) GREATER ON ALL SIDES OF THE INLET COVER TO PROVIDE A HAND HOLD WHEN MAINTENANCE OR REMOVAL IS REQUIRED.
- ② FOR INLET PROTECTION, TYPE C, WITH A CURB BOX, AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX.

EROSION CONTROL DETAIL AT INLETS
EROSION CONTROL DETAIL A



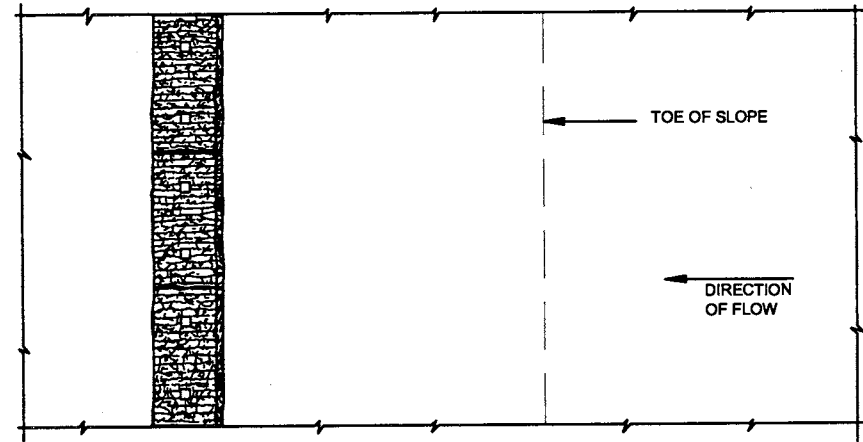
INLET PROTECTION, TYPE B (WITHOUT CURB BOX)
(CAN BE INSTALLED ON ANY INLET TYPE)



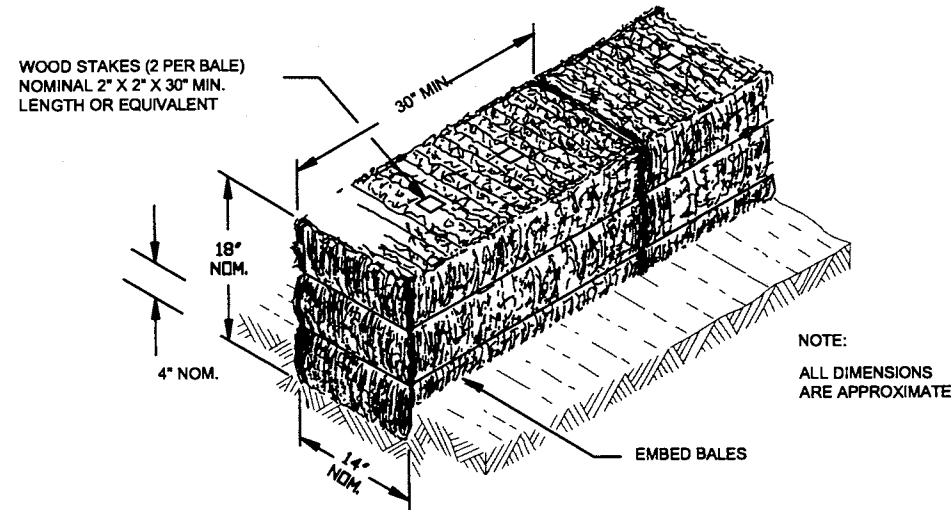
INLET PROTECTION, TYPE C (WITH CURB BOX)

GENERAL NOTES

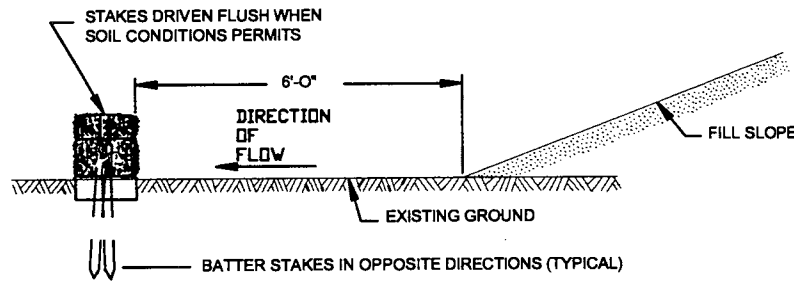
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW



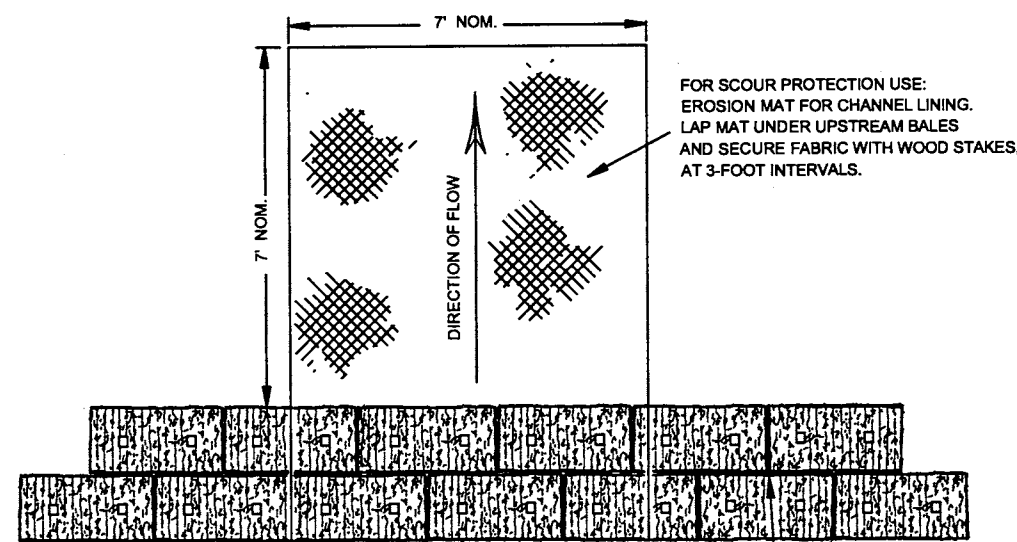
NOTE:
ALL DIMENSIONS
ARE APPROXIMATE



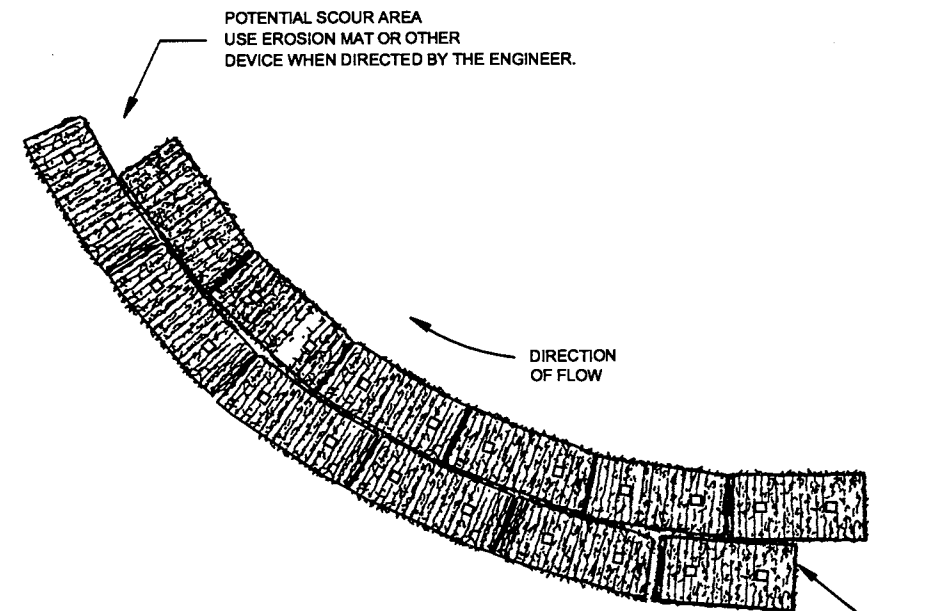
FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW



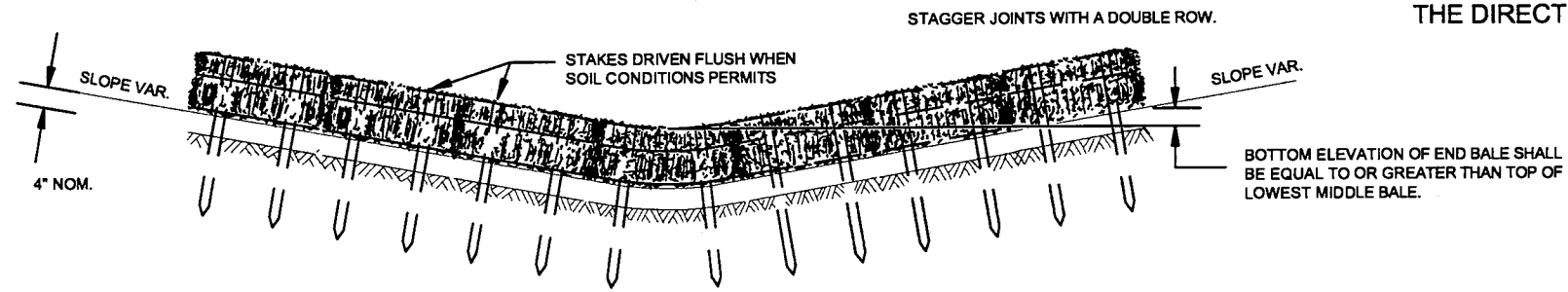
PLAN VIEW



PLAN VIEW

END TREATMENT ON SLOPES TO BE SIMILAR TO CHANNEL FLOW DETAIL.

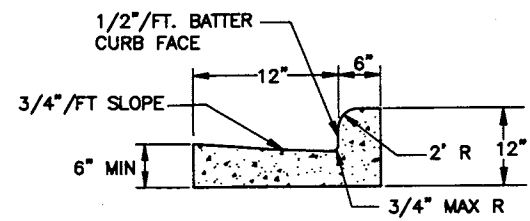
EROSION BALES WHEN ALTERING THE DIRECTION OF FLOW



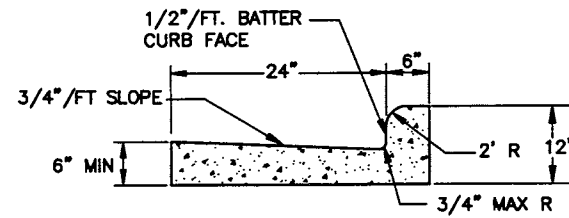
FRONT ELEVATION

EROSION BALES FOR CHANNEL FLOW

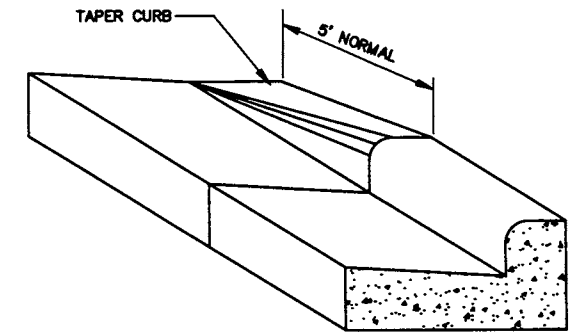
BOTTOM ELEVATION OF END BALE SHALL BE EQUAL TO OR GREATER THAN TOP OF LOWEST MIDDLE BALE.



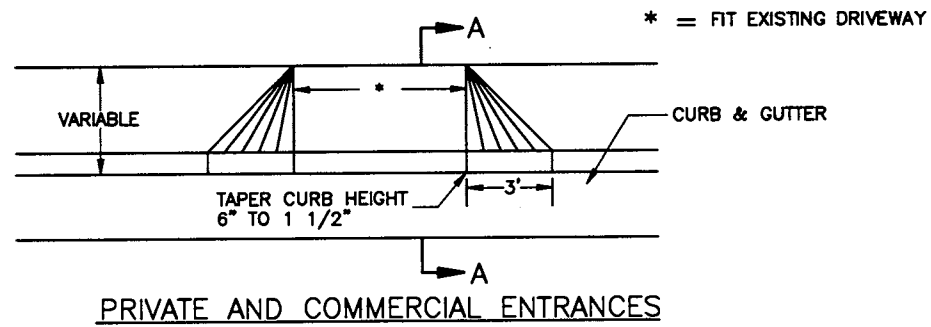
DETAIL OF CURB & GUTTER
18-INCH, TYPE D



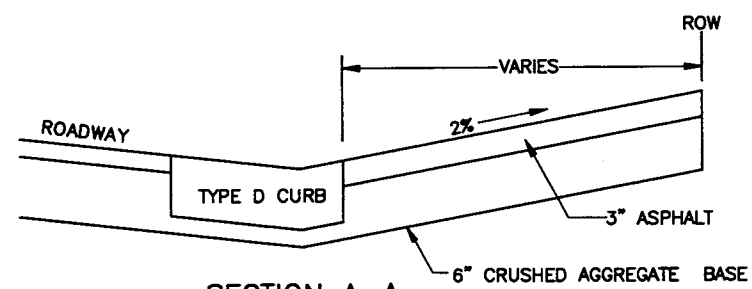
DETAIL OF CURB & GUTTER
30-INCH, TYPE D



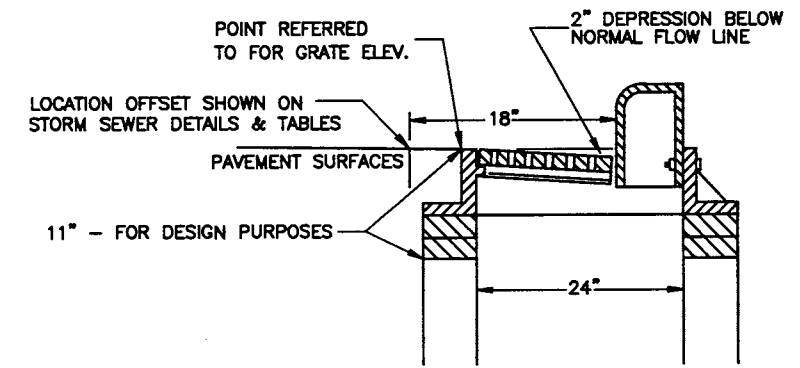
DETAIL OF CURB & GUTTER TERMINI



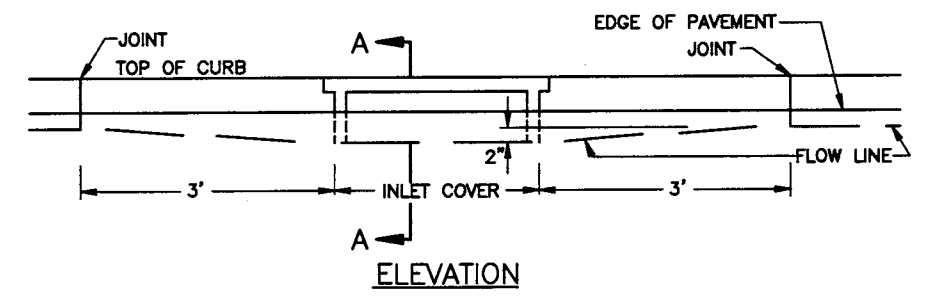
PRIVATE AND COMMERCIAL ENTRANCES



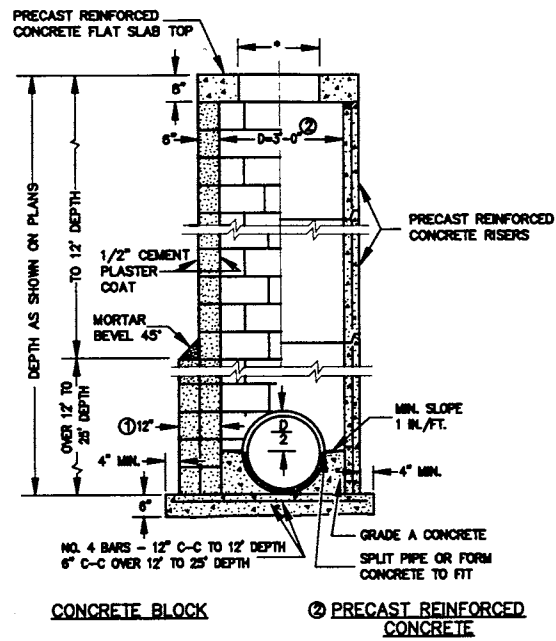
SECTION A-A
TYPICAL DRIVEWAY APPROACH



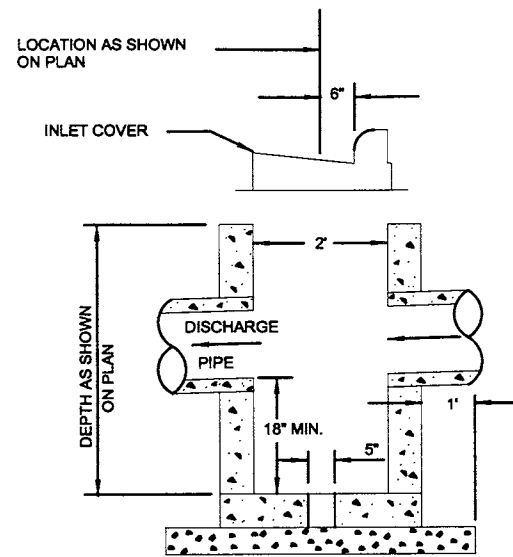
SECTION A-A
DETAIL OF CURB & GUTTER AT INLETS



ELEVATION

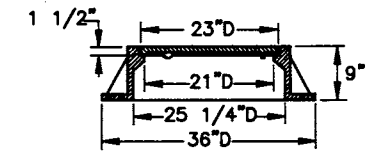


SPECIAL 60" MANHOLE



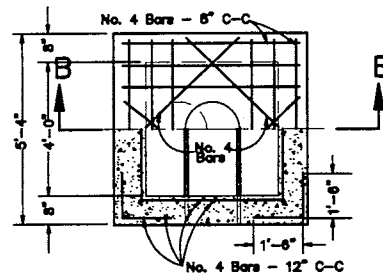
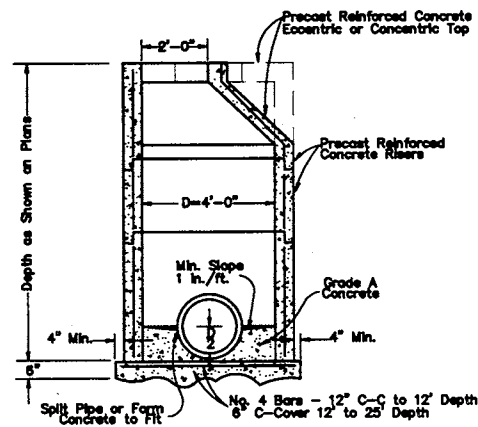
NOTE: DETAILS NOT SHOWN SHALL CONFORM TO STANDARD DETAIL DRAWING FOR INLETS TYPE 3

TYPE 3 INLET

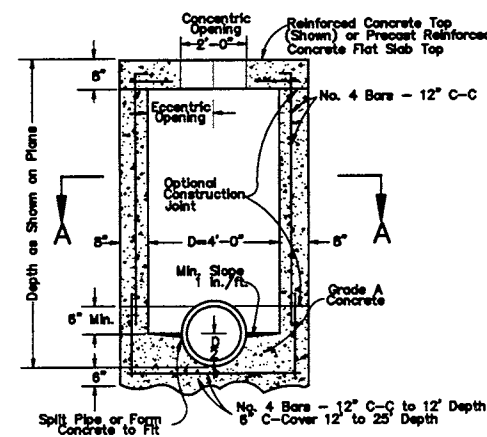
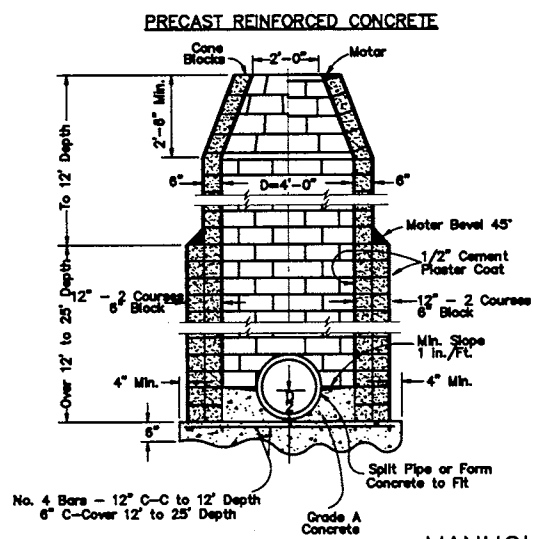


TYPE "J"
 (APPROXIMATE WEIGHT 350 LBS.)
 FRAME.....235 LBS.
 LID.....115 LBS.

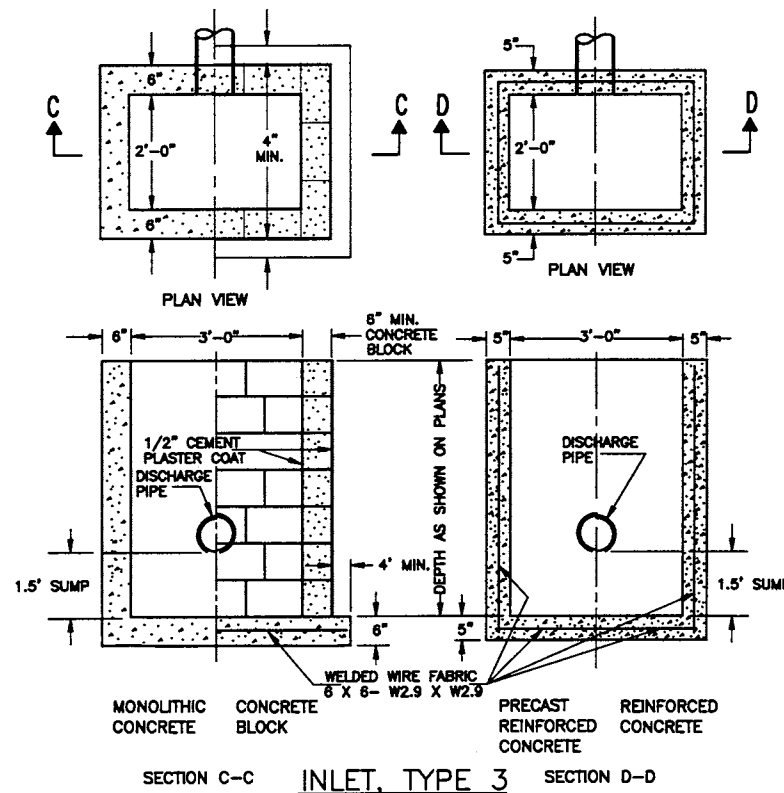
MANHOLE COVER, TYPE J



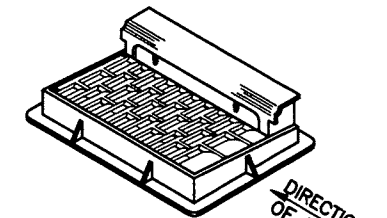
HALF SECTION A-A



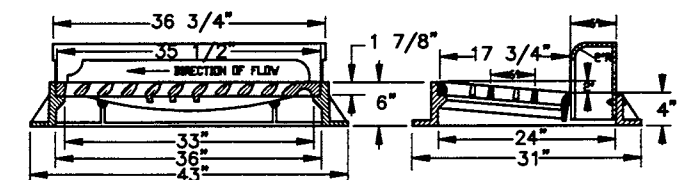
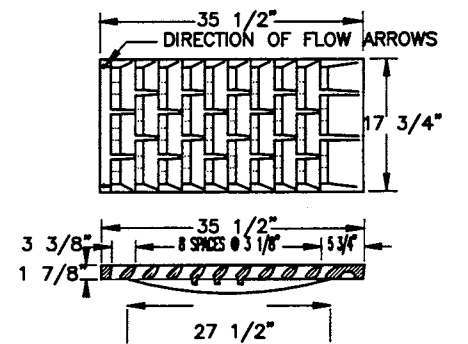
SECTION B-B REINFORCED CONCRETE



SECTION C-C INLET, TYPE 3 SECTION D-D

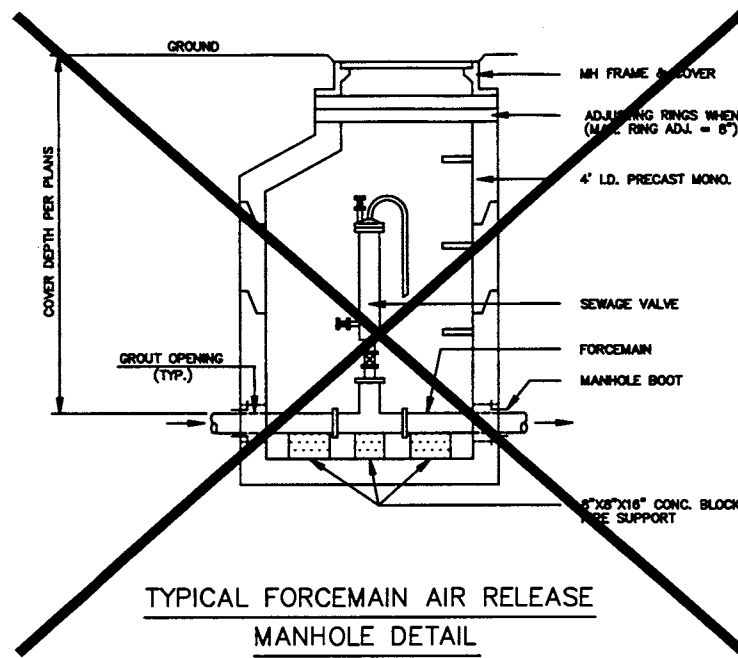


NOTE: GRATE IS NOT REVERSIBLE. LEFT FLOW GRATE IS SHOWN

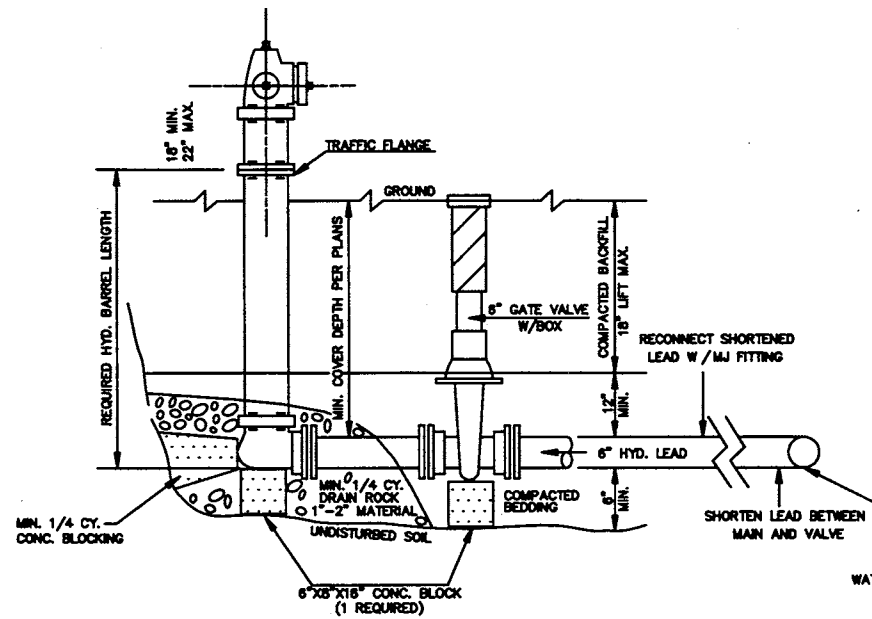


NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"
 (APPROXIMATE WEIGHT 445 LBS.)
 FRAME.....195 LBS.
 GRATE.....135 LBS.
 CURB BOX.....115 LBS.

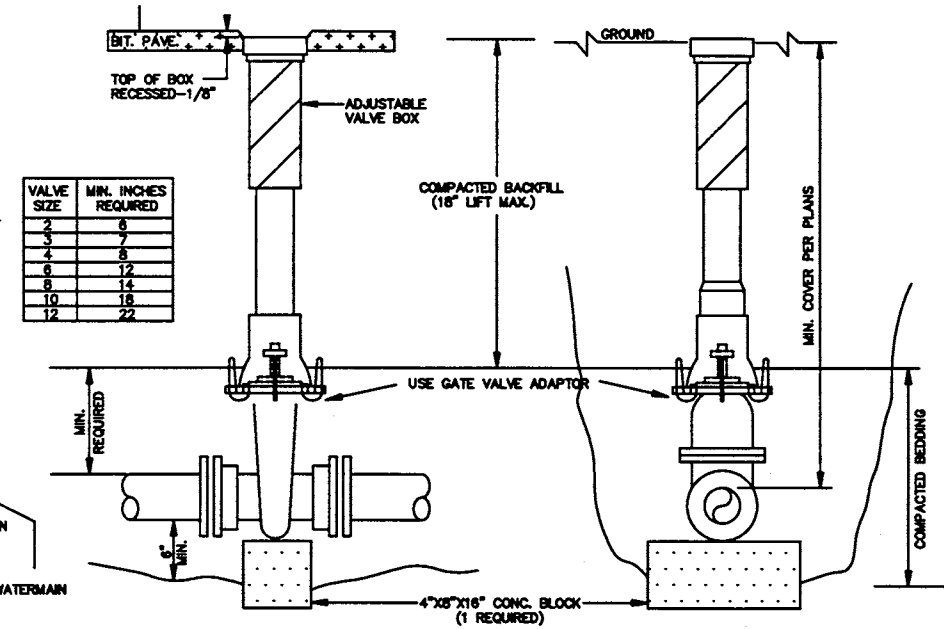
INLET COVER, TYPE H



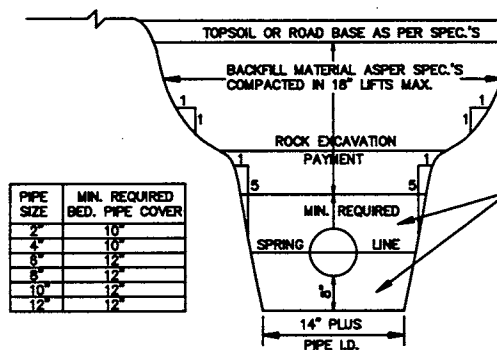
TYPICAL FORCEMAIN AIR RELEASE
MANHOLE DETAIL



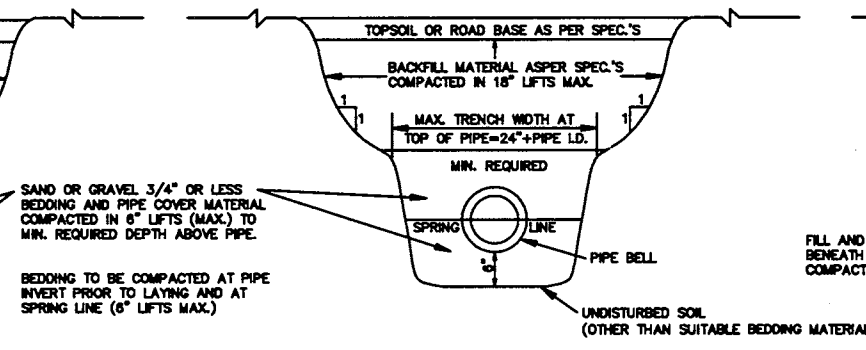
TYPICAL HYDRANT INSTALLATION DETAIL FOR HYDRANT RELOCATION



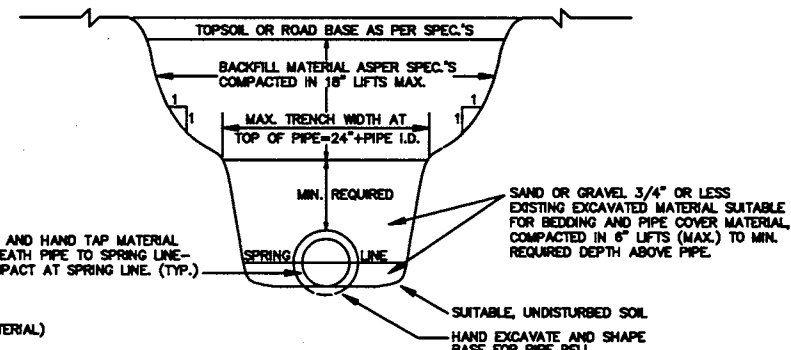
TYPICAL VALVE W/BOX DETAIL



ROCK EXCAVATION



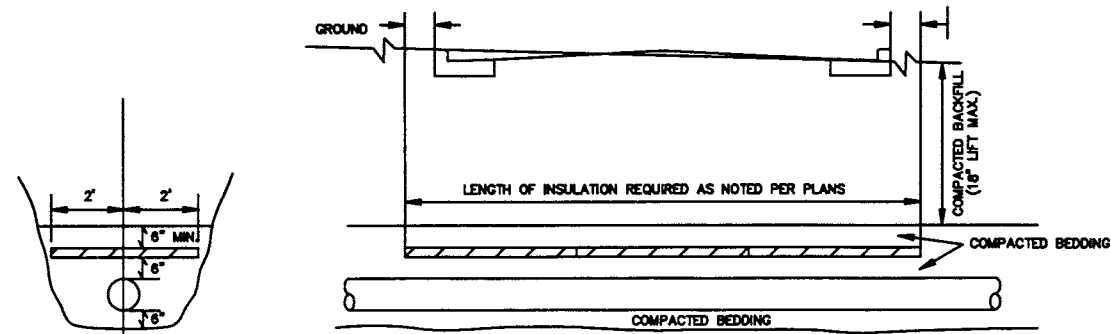
CLASS "B" BEDDING
(PIPE COVER 10' OR GREATER)



CLASS "C" BEDDING
(PIPE COVER 10' OR LESS)

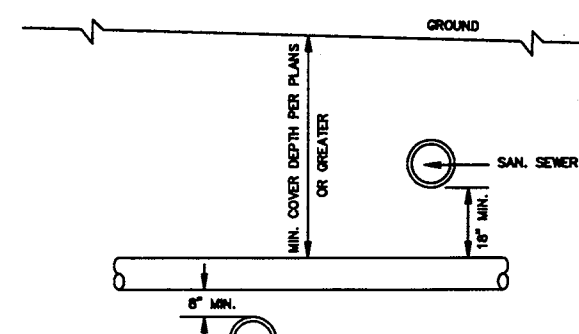
NOTE: IF TRENCH IS UNSUITABLE, CLASS "B" BEDDING IS REQUIRED.

TYPICAL PIPELINE EXCAVATION AND INSTALLATION DETAILS

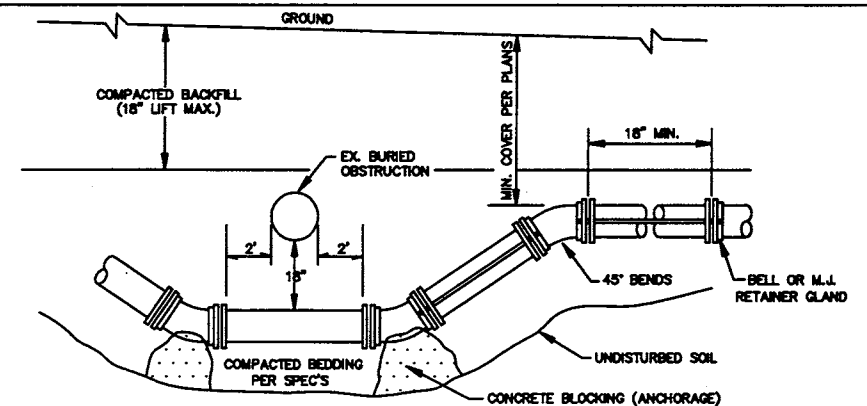


TYPICAL PIPELINE INSTALLATION DETAIL

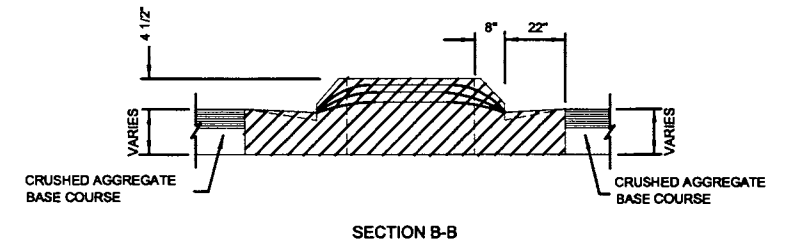
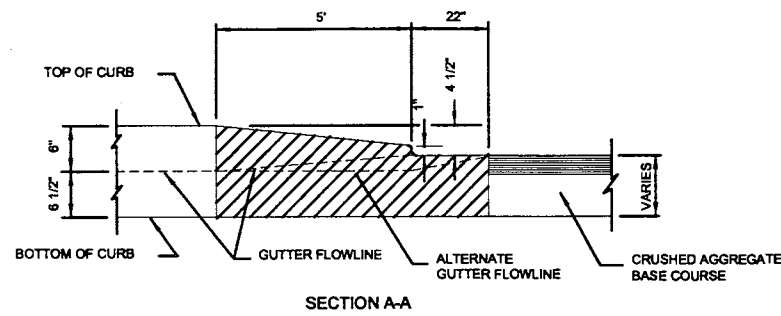
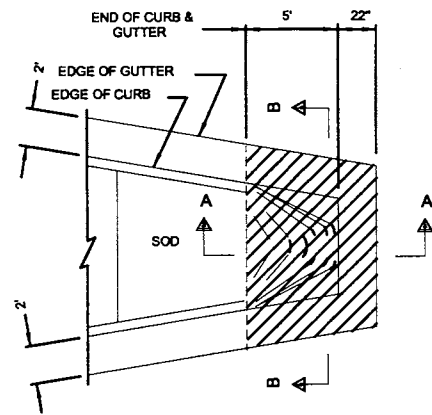
DEEP FROST PENETRATION AREA WHERE PIPELINE HAS LESS THAN 7 1/2' COVER



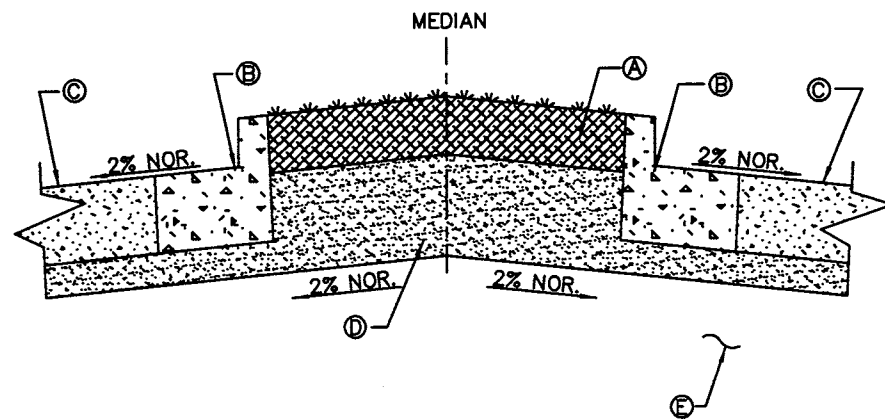
TYPICAL PIPELINE VERTICAL SEPARATION REQUIREMENT



TYPICAL WATERMAIN OFFSET DETAIL

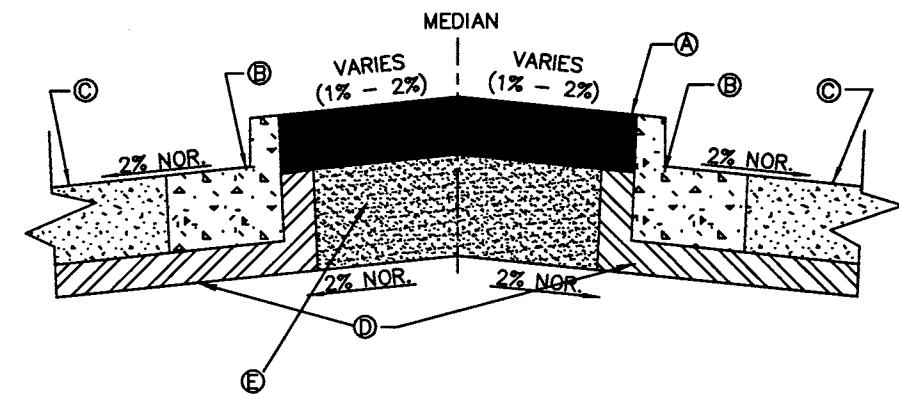


CONCRETE MEDIAN NOSE DETAIL



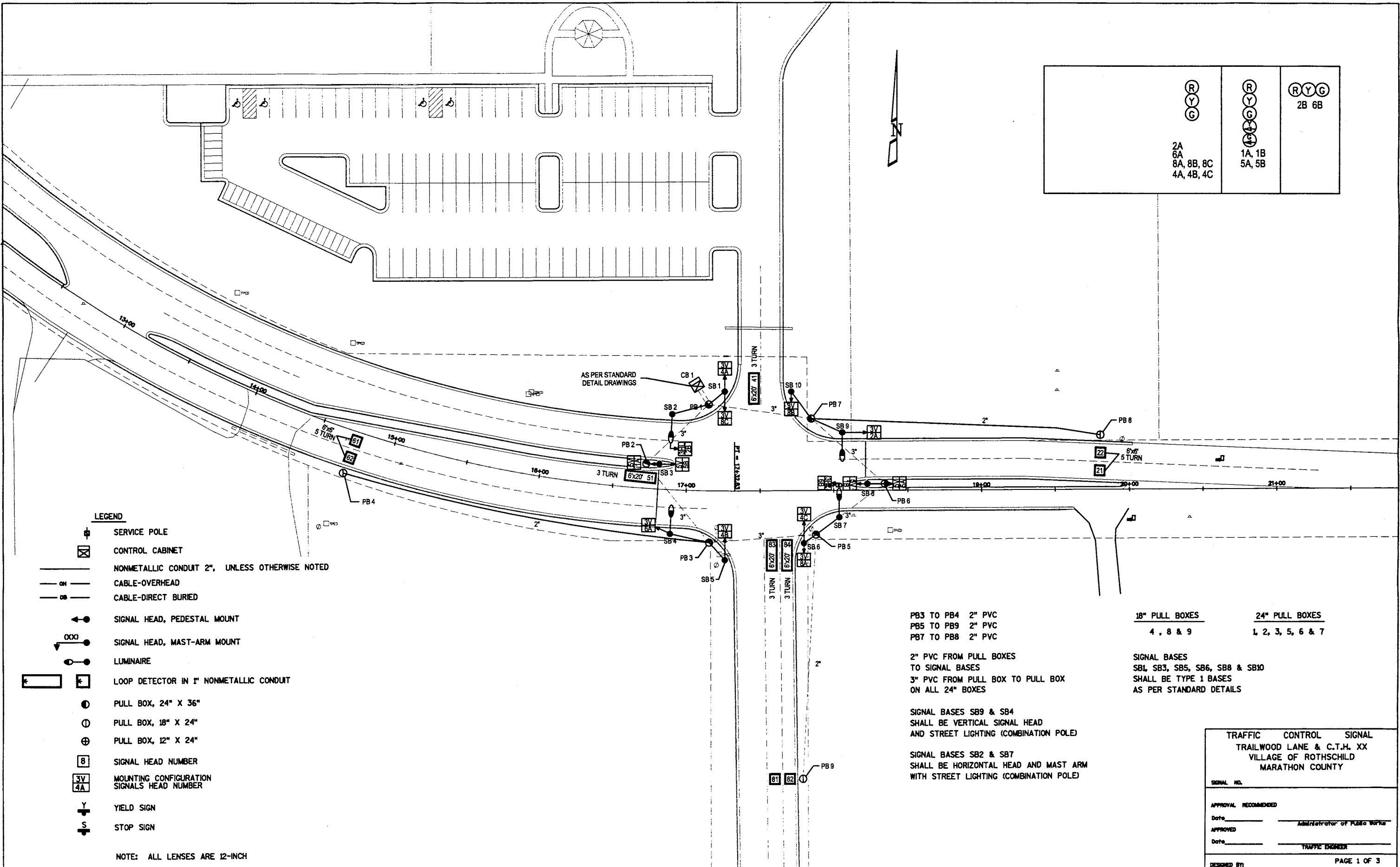
- (A) 6-INCH TOPSOIL, SEED, MULCH AND FERTILIZE
- (B) CONCRETE CURB AND GUTTER, 18-INCH, TYPE D (REVERSE PAN)
- (C) 5-INCH E-1 PAVEMENT
- (D) 8-INCH, CGBC, (CRUSHED STONE)
- (E) COMPACTED SUBGRADE




RAISED GRASS MEDIAN DETAIL (TYPICAL)






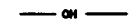
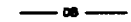











- (A) 2-INCH ASPHALTIC CONCRETE PAVEMENT, TYPE E-1
- (B) CONCRETE CURB AND GUTTER, 18-INCH, TYPE D (REVERSE PAN)
- (C) 5-INCH E-1 PAVEMENT
- (D) 8-INCH, CGBC, (CRUSHED STONE)
- (E) NATIVE SOIL

RAISED ACP MEDIAN DETAIL (TYPICAL)



 2A 6A 8A, 8B, 8C 4A, 4B, 4C	 1A, 1B 5A, 5B	 2B 6B
---	---	--

LEGEND

-  SERVICE POLE
-  CONTROL CABINET
-  NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
-  CABLE-OVERHEAD
-  CABLE-DIRECT BURIED
-  SIGNAL HEAD, PEDESTAL MOUNT
-  SIGNAL HEAD, MAST-ARM MOUNT
-  LUMINAIRE
-  LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
-  PULL BOX, 24" X 36"
-  PULL BOX, 18" X 24"
-  PULL BOX, 12" X 24"
-  SIGNAL HEAD NUMBER
-  MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
-  YIELD SIGN
-  STOP SIGN

NOTE: ALL LENSES ARE 12-INCH

PB3 TO PB4 2" PVC
 PB5 TO PB9 2" PVC
 PB7 TO PB8 2" PVC

2" PVC FROM PULL BOXES TO SIGNAL BASES
 3" PVC FROM PULL BOX TO PULL BOX ON ALL 24" BOXES

SIGNAL BASES SB9 & SB4 SHALL BE VERTICAL SIGNAL HEAD AND STREET LIGHTING (COMBINATION POLE)

SIGNAL BASES SB2 & SB7 SHALL BE HORIZONTAL HEAD AND MAST ARM WITH STREET LIGHTING (COMBINATION POLE)

18" PULL BOXES	24" PULL BOXES
4, 8 & 9	1, 2, 3, 5, 6 & 7

SIGNAL BASES SB1, SB3, SB5, SB6, SB8 & SB10 SHALL BE TYPE 1 BASES AS PER STANDARD DETAILS

TRAFFIC CONTROL SIGNAL TRAILWOOD LANE & C.T.H. XX VILLAGE OF ROTHSCHILD MARATHON COUNTY	
SIGNAL NO. _____	
APPROVAL RECOMMENDED	
Date _____	Administrator of Public Works
APPROVED	
Date _____	Traffic Engineer
DESIGNED BY: _____	PAGE 1 OF 3


DETECTOR LOGIC


DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							
11	1	X			1	1					
12	1	X			1	1					
21	2	X			2	2					
22	2	X			2	2					
41	3	X			4	4	X				
51	4	X			5	5					
61	5	X			6	6					
62	5	X			6	6					
81	6			X		8		X			
82	6			X		8		X			
83	7	X			8	8	X				
84	8	X			8	8	X				

CONTROLLER LOGIC


PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL
1		Ø6	
2	X	Ø6	X
3			
4		Ø8	
5		Ø2	
6	X	Ø2	X
7			
8		Ø4	

SEQUENCE OF OPERATION





NOT USED




RING 1

HEAD NUMBERS	Ø1 CLEAR TO				Ø2 CLEAR TO			
	R/W	**	Y	-	R/W	**	Y	-
Ø1 1A,1B								
Ø2 2A,2B,5A,5B	R	R	R		G	Y	R	
Ø3								
Ø4 4A,4B,4C	R	R	R		R	R	R	
Ø5 5A,5B								
Ø6 6A,6B,1A,1B	R	R	R		R	R	R	
Ø7								
Ø8 8A,8B,8C	R	R	R		R	R	R	

RING 2

HEAD NUMBERS	Ø5 CLEAR TO				Ø6 CLEAR TO			
	R/W	**	Ø8	-	R/W	**	Ø5	-
Ø1 1A,1B								
Ø2 2A,2B,5A,5B	R	R	R		R	R	R	
Ø3								
Ø4 4A,4B,4C	R	R	R		R	R	R	
Ø5 5A,5B	G	Y	-					
Ø6 6A,6B,1A,1B	R	R	R		G	Y	R	
Ø7								
Ø8 8A,8B,8C	R	R	R		R	R	R	

NOT USED



BARRIER

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1 BELOW)

* WHEN CALLED, TIMED STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK.

CHART 1

PHASE ON	NON-CONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
Ø1	Ø5,Ø6	Ø2,Ø4,Ø8
Ø2	Ø5,Ø6	Ø1,Ø4,Ø8
Ø3		
Ø4	Ø8	Ø1,Ø2,Ø5,Ø6
Ø5	Ø1,Ø2	Ø4,Ø6,Ø8
Ø6	Ø1,Ø2	Ø4,Ø5,Ø8
Ø7		
Ø8	Ø4	Ø1,Ø2,Ø5,Ø6

TYPE OF INTERCONNECT	
NONE	X
TBC	
CLOSED LOOP	
HARDWIRE	
tone (FREQ)	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	

TYPE OF LIGHTING	
NONE	
IN TRAFFIC CONTROL CABINET	X
IN SEPARATE CONTROL CABINET	

GENERAL NOTES:

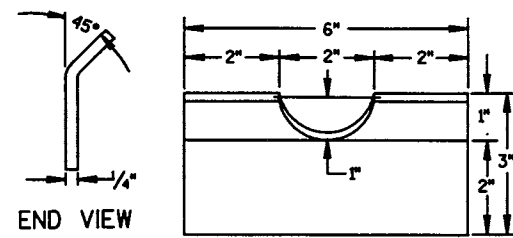
1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NON-CONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT)

C.T.H. XX & Trailwood Lane
TRAFFIC SIGNAL
VILLAGE OF ROTHSCHILD
MARATHON COUNTY

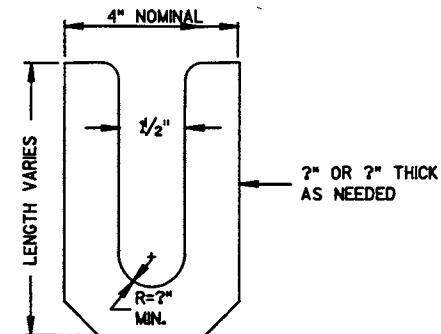
SIGNAL NO.

DATE 06/13/03

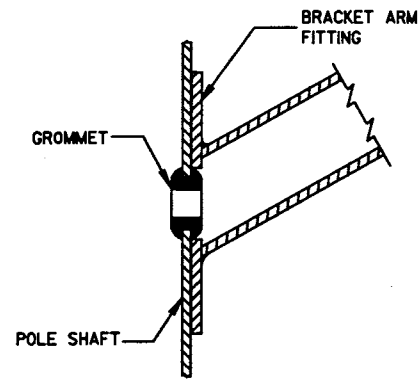
SHEET NO. 2 OF 3



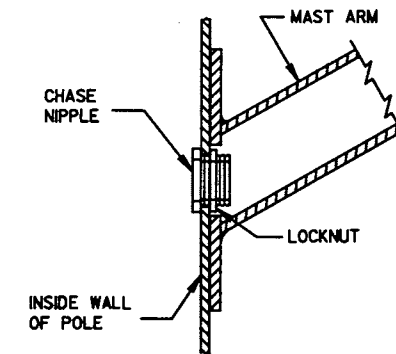
**FRONT VIEW
RECTANGULAR CLAMP SHIM**
(4 TO A SET)



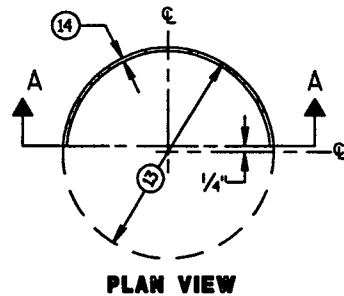
LEVELING SHIM (15)
SHALL BE ALUMINUM



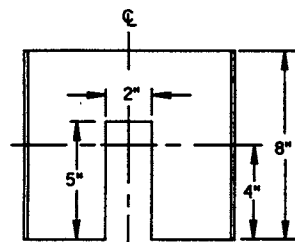
**TYPICAL APPLICATION OF
GROMMET IN POLE SHAFT**



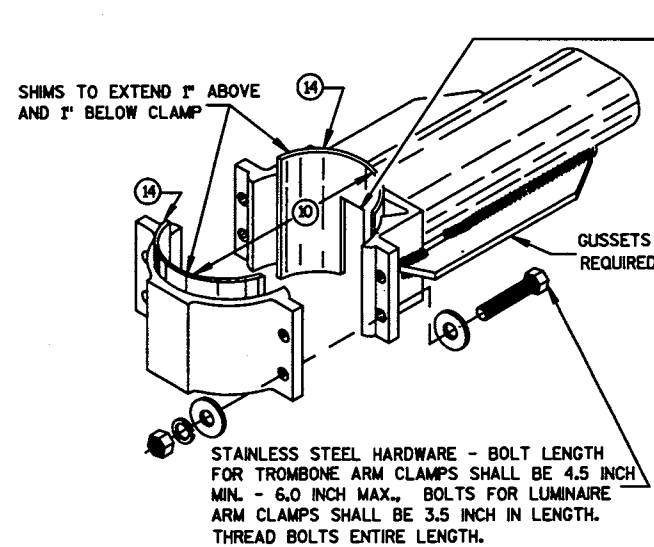
**TYPICAL APPLICATION OF
CHASE NIPPLE IN POLE SHAFT**



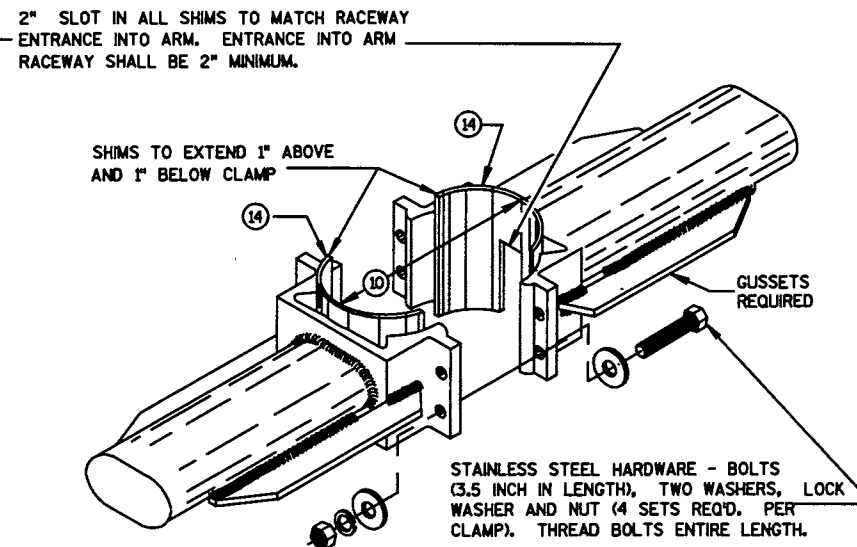
PLAN VIEW



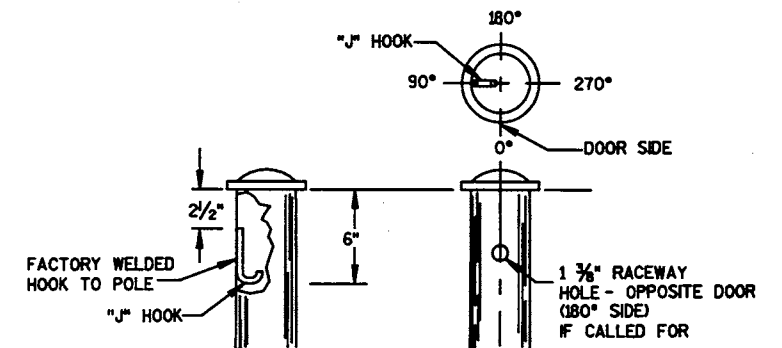
**SECTION A-A
CIRCULAR CLAMP SHIM**
(2 TO A SET)



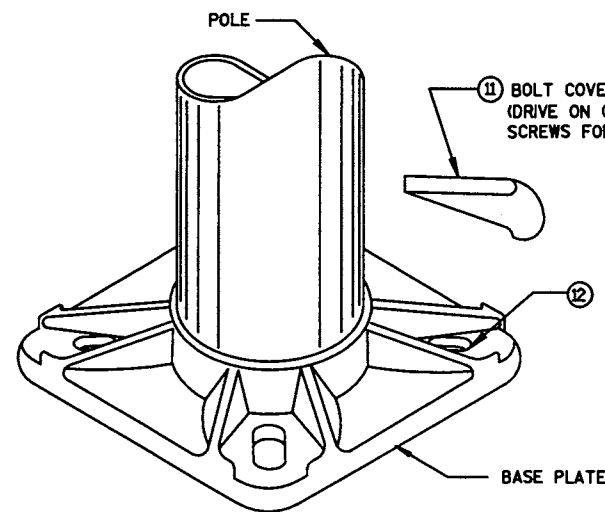
**TYPICAL TROMBONE MAST ARM AND SINGLE
LUMINAIRE MAST ARM MOUNTING CLAMP**



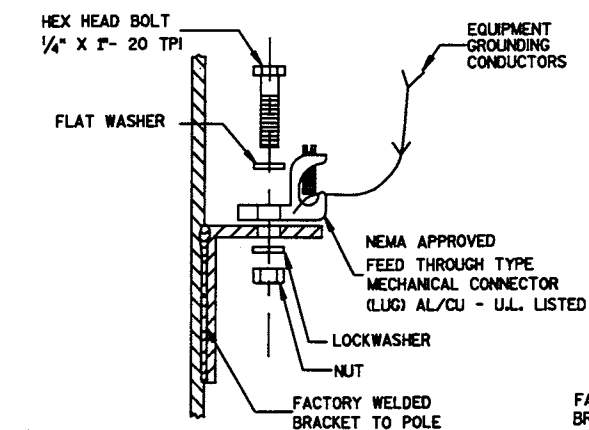
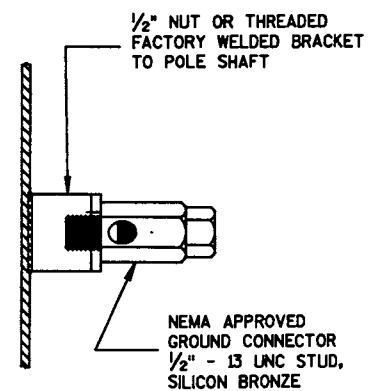
**TYPICAL LUMINAIRE MAST ARM
(DOUBLE) MOUNTING BRACKETS**



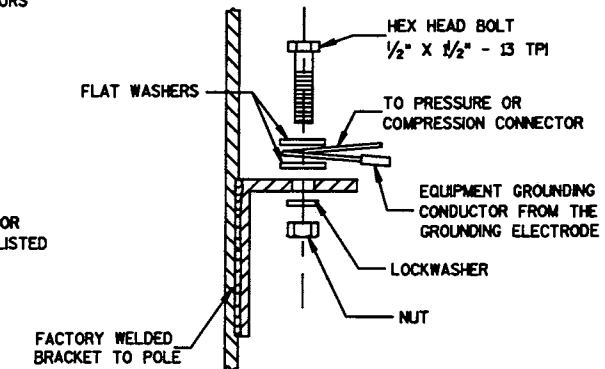
TYPICAL "J" HOOK LOCATION



BASE PLATE



TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



HARDWARE DETAILS FOR
POLE MOUNTINGS

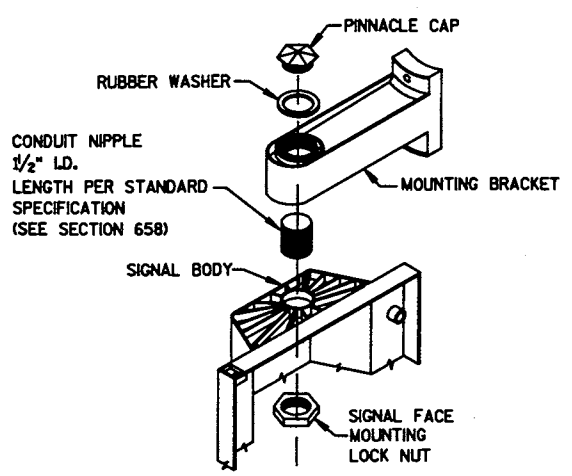
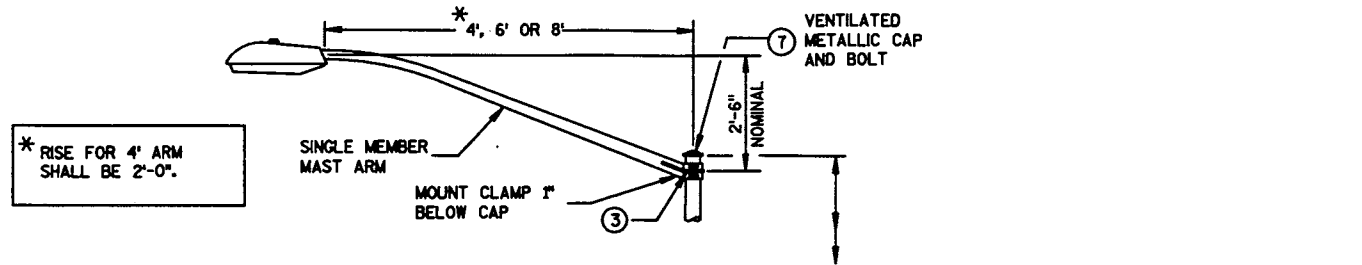
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/5/01
DATE
FHWA

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

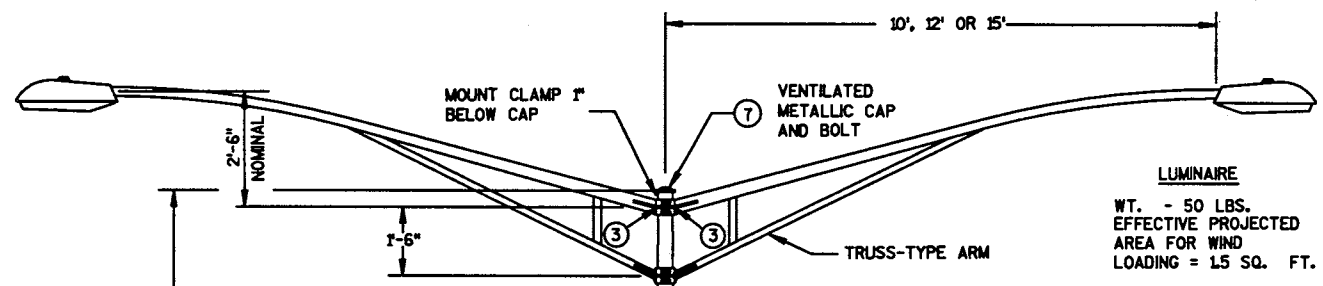
- (10) 4.5" L.D. FOR LUMINAIRE MAST ARM CLAMP.
6.625" L.D. FOR TROMBONE MAST ARM CLAMP.
- (11) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)
- (12) BASE PLATE SLOTTED TO ACCEPT 1" THROUGH 1 1/2" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.
- (13) OUTSIDE SHIM DIAMETER - (4.5" O.D. FOR LUMINAIRE MAST ARM)
(6.625" O.D. FOR TROMBONE MAST ARM)
- (14) VARIABLE SHIM THICKNESS - (0.10", 0.25", 0.35", 0.53" OR 0.70")
SHIM THICKNESS FOR TROMBONE MAST ARMS MAY BE TYPICALLY 0.25", 0.35", 0.53" OR 0.70".
SHIM THICKNESS FOR LUMINAIRE MAST ARMS MAY BE TYPICALLY 0.10", 0.25" OR 0.35".
SHIM MATERIAL SHALL BE ALUMINUM ALLOY.
SHIM THICKNESS SHALL BE IMPRESSED INTO EACH SHIM. NUMERALS SHALL BE 1/4" HIGH AND LEGIBLE.
THE CONTRACTOR SHALL SUBMIT TWO COPIES OF ALL SHIM SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL.
- (15) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



SIGNAL FACE MOUNTING DETAIL (BANDED)

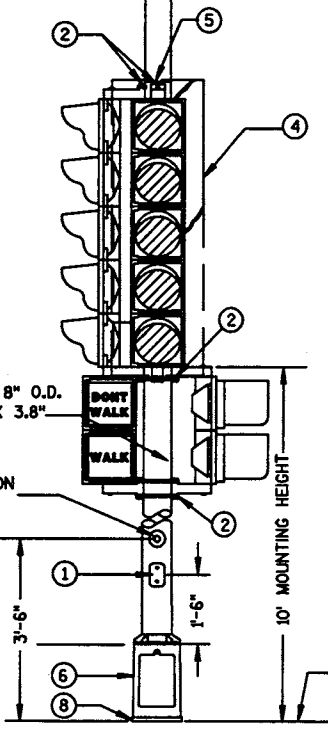
GENERAL NOTES

- DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.
- ALL TYPE 4 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.
- POLES SHALL BE GALVANIZED STEEL.
- SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.
- THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 3/4 INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH. WHEN TRANSFORMER BASES ARE USED, CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.
- ① 4" X 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) 7" X 7" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.
 - ② SIGNAL FACE MOUNTING BRACKETS, MOUNT WITH CAP SCREWS AND BANDING. (SEE STANDARD SPECIFICATIONS - SEC. 658).
 - ③ GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 3/4" HOLE IN POLE SHAFT FOR WIRING.
 - ④ SECURELY MOUNT DULL BLACK POLYCARBONATE BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, WITH SELF-TAPPING STAINLESS STEEL SCREWS.
 - ⑤ POLE MOUNTED SIGNAL FACES SHALL REQUIRE 1 OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACE.
 - ⑥ CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.
 - ⑦ FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) 1/4" X 3/4" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.
 - ⑧ SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

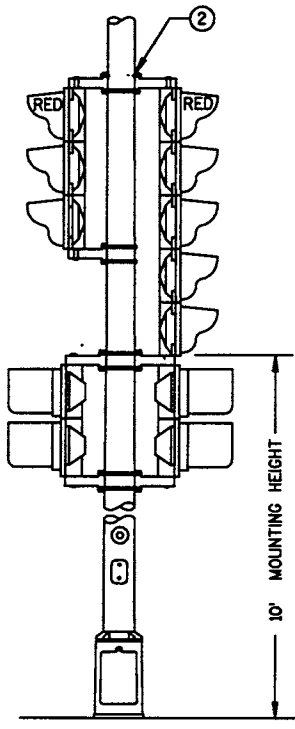


NOMINAL 30'-0" TAPERED SHAFT

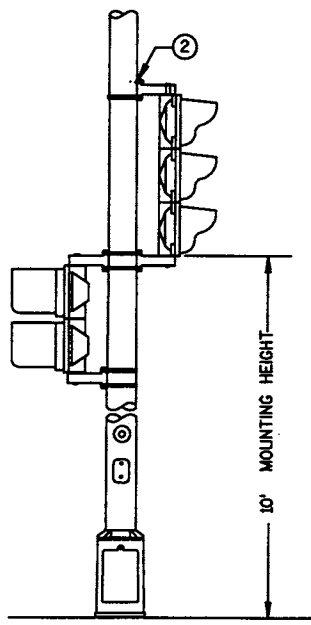
ROUND SHAFT 8" O.D. (POLE BUTT) X 3.8" O.D. TOP
PEDESTRIAN PUSH BUTTON WHEN REQUIRED



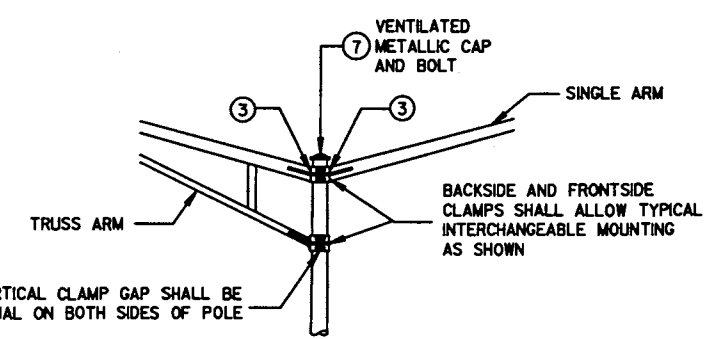
(MAXIMUM LOAD)



TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE



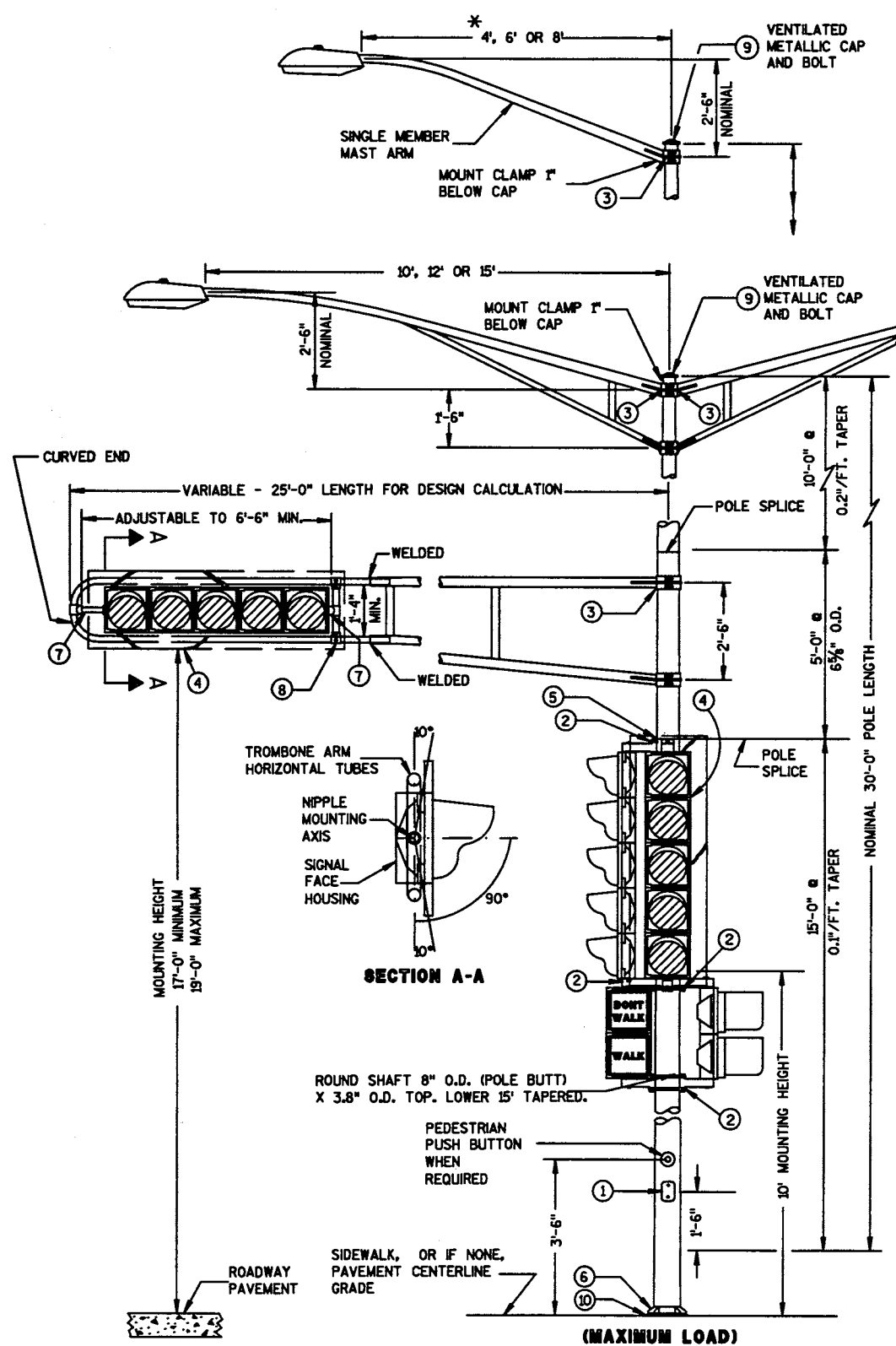
INTERCHANGEABLE MOUNTING DETAIL

TYPE 4 POLE MOUNTING CONFIGURATION

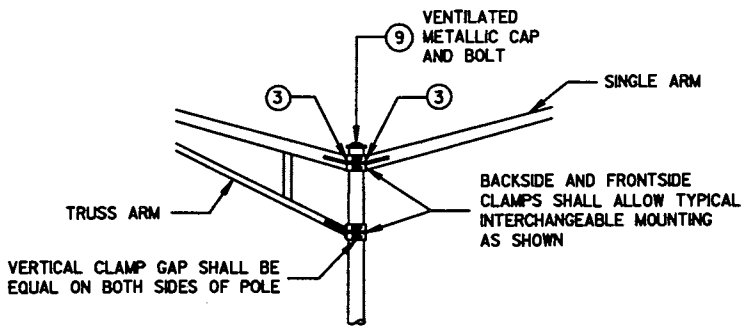
POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 4

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

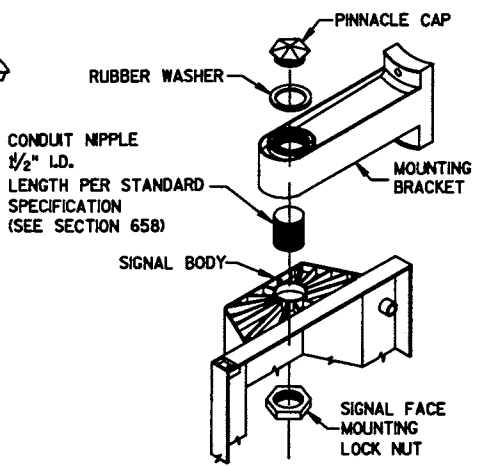
* RISE FOR 4' ARM SHALL BE 2'-0".



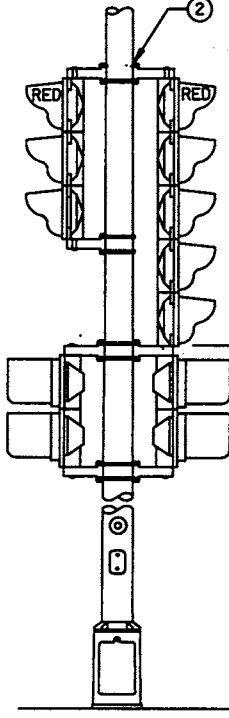
LUMINAIRE
WT. - 50 LBS.
EFFECTIVE PROJECTED
AREA FOR WIND
LOADING = 1.5 SQ. FT.



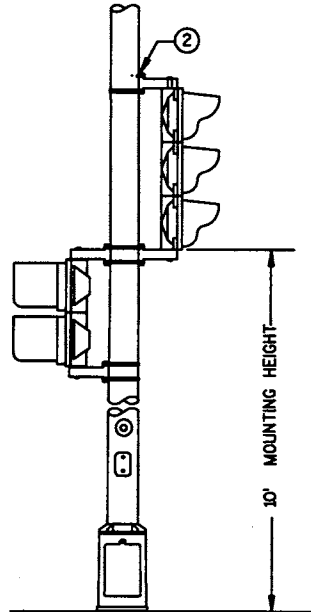
INTERCHANGEABLE MOUNTING DETAIL



SIGNAL FACE MOUNTING DETAIL (BANDED)



TYPICAL MOUNTING OF BACK TO BACK 3 AND 6 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE

TYPE 3 POLE MOUNTING CONFIGURATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.
ALL TYPE 3 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

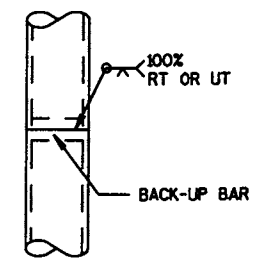
A PULL WIRE/ROPE IN ACCORDANCE WITH STANDARD SPECIFICATION 652, SHALL BE INSTALLED IN EACH TROMBONE ARM RACEWAY DURING THE MANUFACTURING PROCESS.

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 3/8 INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

- ① 4" X 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) 7" X 7" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.
- ② SIGNAL FACE MOUNTING BRACKETS, MOUNT WITH CAP SCREWS AND BANDING. (SEE STANDARD SPECIFICATIONS - SEC. 658)
- ③ GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 3/8" HOLE IN POLE SHAFT FOR WIRING.
- ④ SECURELY MOUNT DULL BLACK POLYCARBONATE BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, WITH SELF-TAPPING STAINLESS STEEL SCREWS.
- ⑤ POLE MOUNTED SIGNAL FACES SHALL REQUIRE 1 OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACE.
- ⑥ TYPE 3 POLE CONFIGURATIONS SHALL BE MOUNTED DIRECTLY TO THEIR CONCRETE BASES.
- ⑦ MOUNTING BRACKET NIPPLES FOR THE SIGNAL FACE(S) SHALL BE 2 INCHES IN LENGTH AND 1/2 INCHES IN DIAMETER. (SEE STANDARD SPECIFICATION - SECTION 658)
- ⑧ VERTICAL STRUT (ADJUSTABLE), ONE (1) SET SCREW (1/4" X 3/4" - 20 TPI, STAINLESS STEEL, HEX HEAD) INTO EACH ARM MEMBER IF STRUT IS THE SLIDING TYPE.
- ⑨ FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) 1/4" X 3/4" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.
- ⑩ SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

WELD TO BE 100% R.T. OR U.T. TESTED AS PER THE REQUIREMENTS OF AWS D 15-88. RECORDS OF COMPLIANCE OF SUCH TESTING SHALL BE FURNISHED TO THE OFFICE OF DESIGN/BRIDGE FOR VERIFICATION AND APPROVAL.

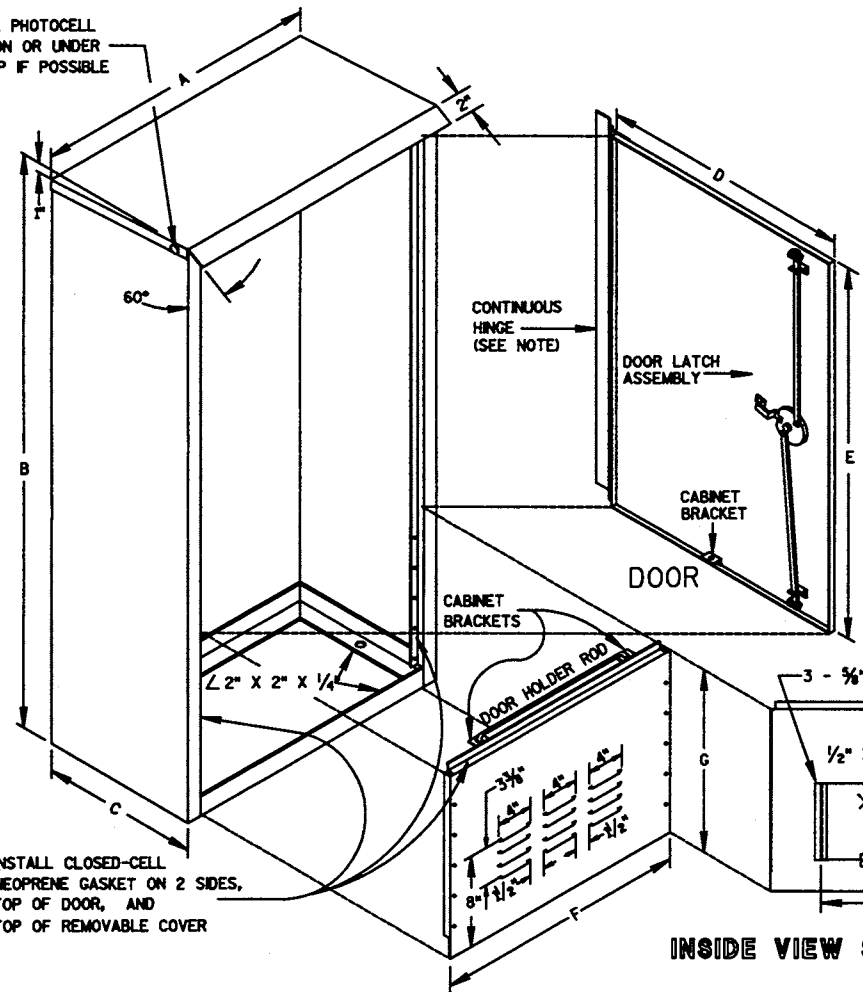


POLE SPLICE DETAIL

POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 3 (HEAVY DUTY)

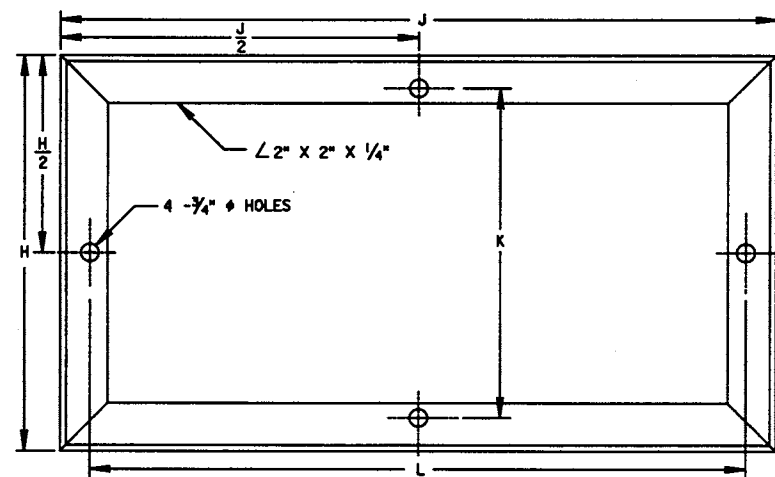
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

TYPICAL PHOTOCELL LOCATION OR UNDER DRIP LIP IF POSSIBLE

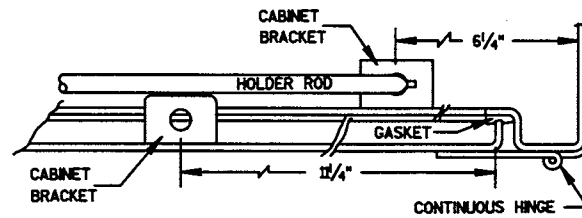


INSTALL CLOSED-CELL NEOPRENE GASKET ON 2 SIDES, TOP OF DOOR, AND TOP OF REMOVABLE COVER

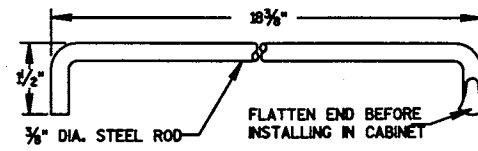
REMOVABLE COVER



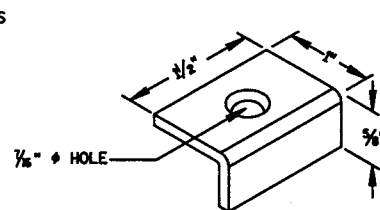
MOUNTING BASE



HINGE & DOOR HOLDER



HOLDER ROD



CABINET BRACKET

INSIDE VIEW SHOWING FILTER

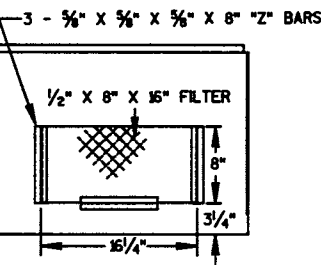


TABLE OF DIMENSIONS (INCHES)

MARK	CABINET TYPE		
	3060	3860	3866
A	30	38	38
B	60	60	66
C	16 1/2	16 1/2	24
D	26 1/2	34 3/4	33 3/4
E	38 3/4	38 3/4	38 3/4
F	26 1/2	34 3/4	33 3/4
G	19	19	25
H	16 1/2	16 1/2	24
I	8 1/4	8 1/4	12
J	30	38	38
K	15	19	19
K	13 3/4	13 3/4	21 1/4
L	27 1/2	35 1/2	35 1/2

GENERAL NOTES

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

PRIME WITH PHOSPHATE TREATMENT AND PRIMER.

FINISH EXTERIOR SURFACES WITH RUSTOLEUM #906 SILVER GRAY OR APPROVED EQUAL.

FINISH INTERIOR WITH RUSTOLEUM #2766 HIGH GLOSS WHITE ENAMEL OR APPROVED EQUAL.

ALL SHEET METAL PARTS SHALL BE .025 INCH THICK ALUMINUM.

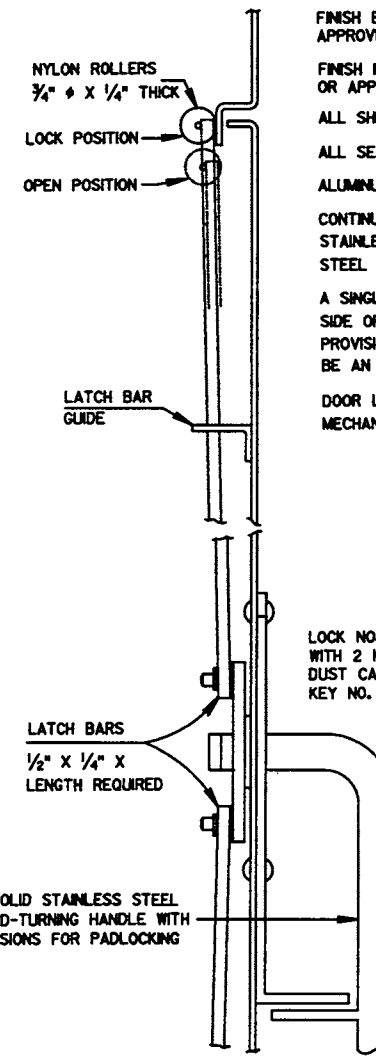
ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

ALUMINUM SHALL BE TYPE 5052-H32.

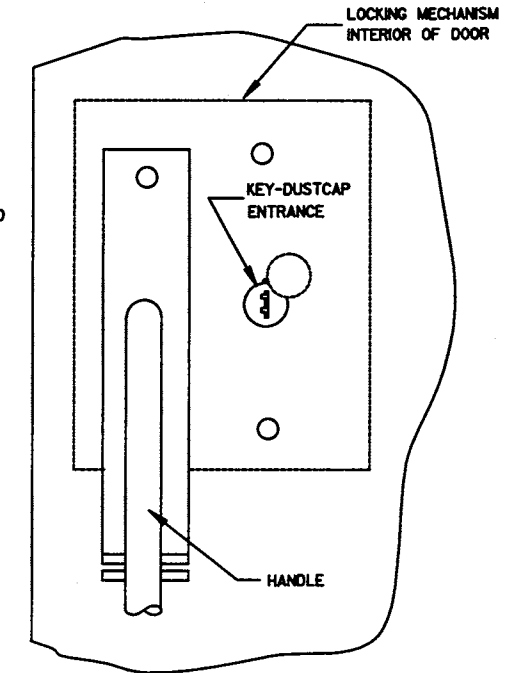
CONTINUOUS HINGE SHALL BE HEAVY GAUGE ALUMINUM WITH 1/4" DIAMETER STAINLESS STEEL HINGE PIN. HINGE IS SECURED WITH 1/4" X 20 TPI STAINLESS STEEL CARRIAGE BOLTS AND STAINLESS STEEL NYLOCK NUTS.

A SINGLE PHOTOCELL SHALL BE LOCATED ON THE NORTH-NORTHEAST SIDE OF THE CABINET UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISIONS. THE PHOTOCELL SHALL BE PLACED AS SHOWN AND SHALL BE AN APPROVED TYPE.

DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.

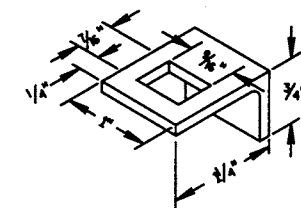


SIDE VIEW



FRONT VIEW

LATCH ASSEMBLY



LATCH BAR GUIDE

SIGNAL OR LIGHTING CONTROL CABINET

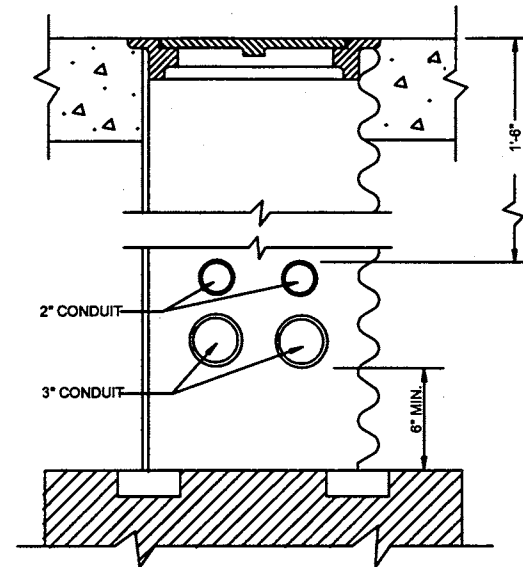
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

DATE
PHWA

S.D.D. 9 0 2-2

CONTROL CABINET BASE TYPE	DIMENSIONS				C.Y. CONCRETE (APPROX.)
	H	I	J	K	
TYPE 6 - 30" CABINET	34"	60"	10"	17"	.64
TYPE 7 - 38" CABINET	42"	60"	10"	21"	.93
TYPE 8 - 38" CABINET	42"	72"	12"	21"	1.29
TYPE 9 - VARIABLE	54"	72"	14"	27"	1.56
TYPE 10 - POST MOUNT	AS SHOWN				.32



CONDUIT LOCATIONS IN 24" X 36" PULL BOX
(LEADING TO CONTROLLER CABINET BASE TYPE 6, 7, 8 AND 9)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR 1/2 INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED AND LEVEL.

WHEN A TYPE 10 CONTROL CABINET BASE IS USED TO POST MOUNT A CONTROL CABINET, A 36" SQUARE 4" THICK CONCRETE MAINTENANCE PLATFORM SHALL BE REQUIRED ON THE DOOR SIDE OF THE CABINET. THE TOP 1 INCH SHALL BE ABOVE FINISHED GRADE AND BE BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

ALL FOUR (TWO INCH AND THREE INCH) CONDUIT SHALL BE INSTALLED FROM THE CABINET BASE TO THE FIRST (NEAREST) PULL BOX LOCATED AS SHOWN ON THE PLANS.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

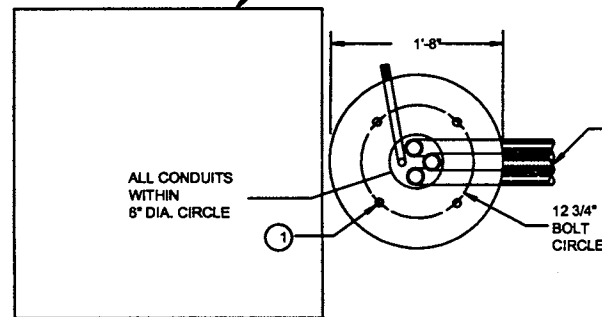
WHEN ANCHOR RODS USING THE ALTERNATE L BEND ARE FURNISHED FOR THE TYPE 10 BASE, THE 4" L BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH.

THE "L" BEND SHALL NOT BE THREADED.

STRAIGHT ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD.

① FOUR (4) ANCHOR RODS, 1" DIA. X 3'-6" ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS AND IN ACCORDANCE WITH A-449, OR ASTM. A-687 (GRADE 105).

TYPICAL 3'-0" X 3'-0" MAINTENANCE PLATFORM. LOCATION TO BE DETERMINED IN THE FIELD.

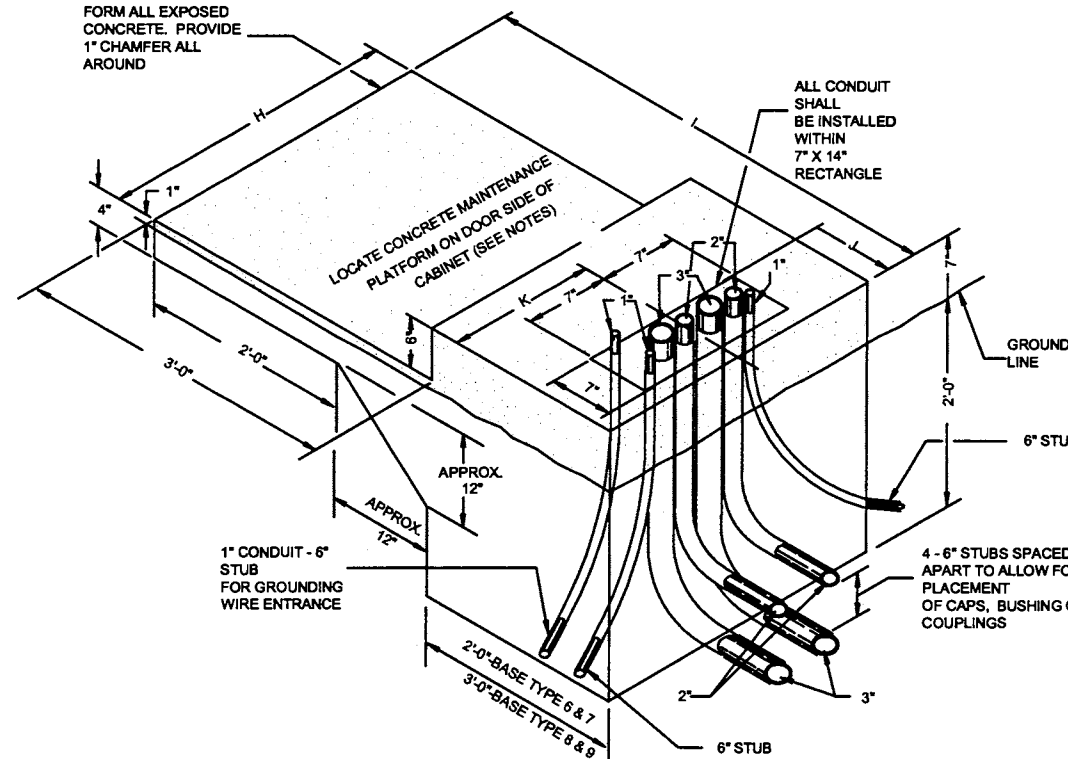


THE THREE CONDUITS SHALL BE INSTALLED FROM THE CABINET BASE TO THE FIRST (NEAREST) PULL BOX LOCATED AS SHOWN ON THE PLAN

ALL CONDUITS WITHIN 6" DIA. CIRCLE

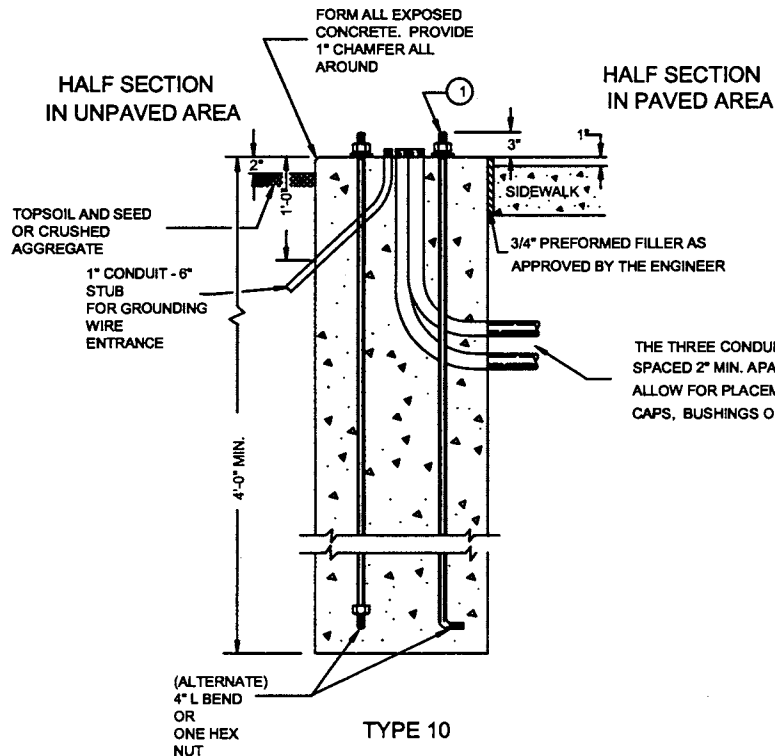
12 3/4" BOLT CIRCLE

FORM ALL EXPOSED CONCRETE. PROVIDE 1" CHAMFER ALL AROUND



TYPE 6,7,8 AND 9
(ISOMETRIC VIEW)

CONCRETE CONTROL CABINET BASES



TYPE 10

HALF SECTION IN PAVED AREA

THE THREE CONDUITS SHALL BE SPACED 2" MIN. APART TO ALLOW FOR PLACEMENT OF CAPS, BUSHINGS OR COUPLINGS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION B41.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-325, (92,000 YIELD) HEAVY HEX NUT AND BE GALVANIZED IN ACCORDANCE WITH ASTM A-153, CLASS C.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED AND U.L. LISTED MECHANICAL CONNECTOR (LUG) ALCU RATED AND SIZED TO ACCEPT #10 AWG STRANDED WIRE, SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

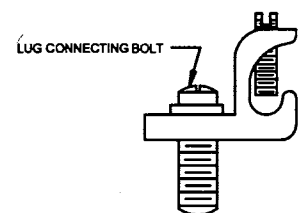
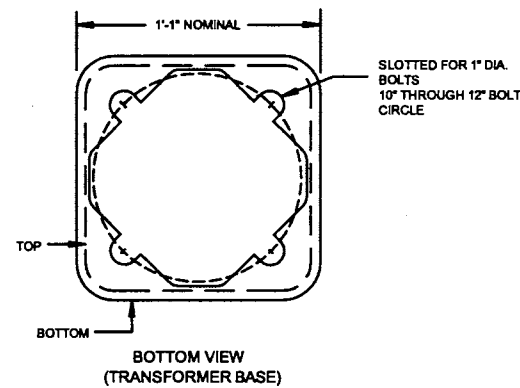
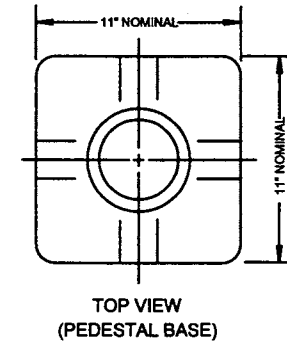
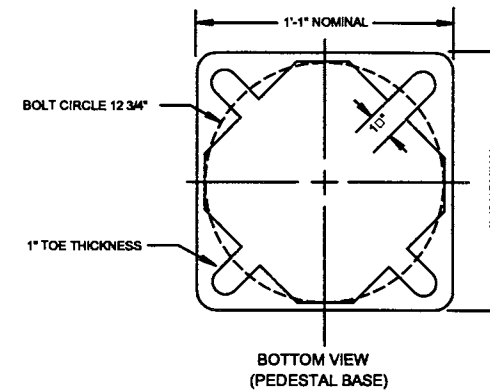
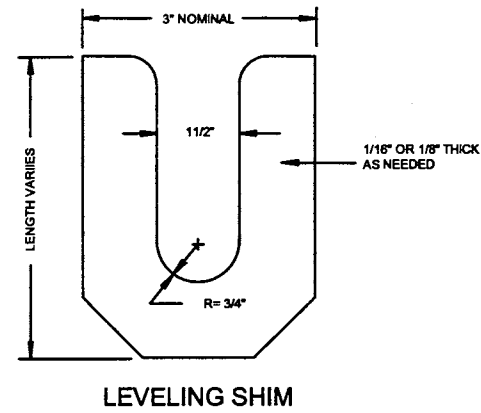
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

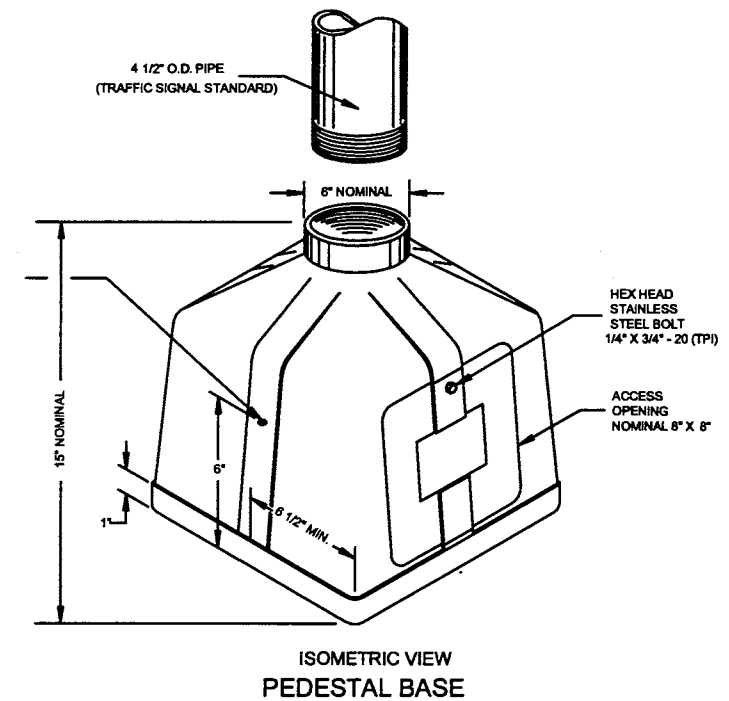
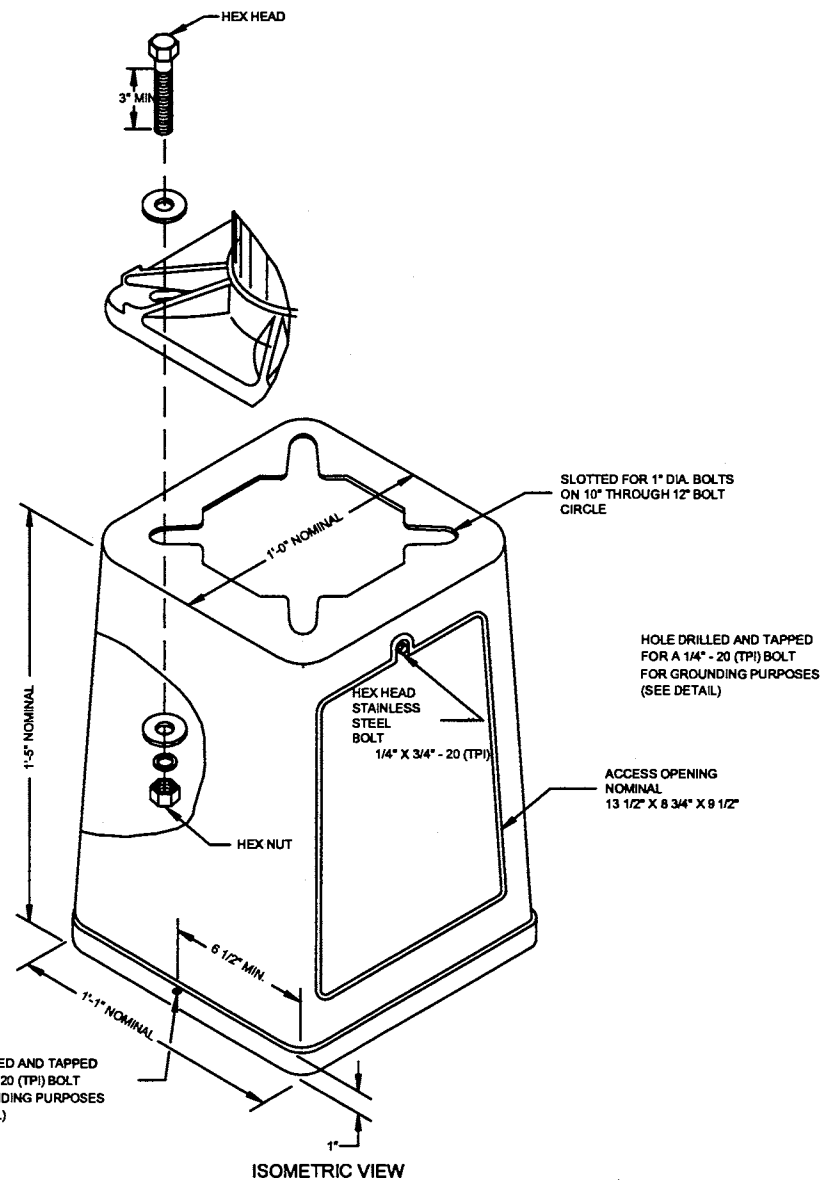
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.



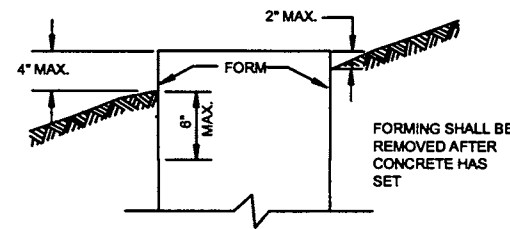
TYPICAL MECHANICAL CONNECTOR LUG
TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE
INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



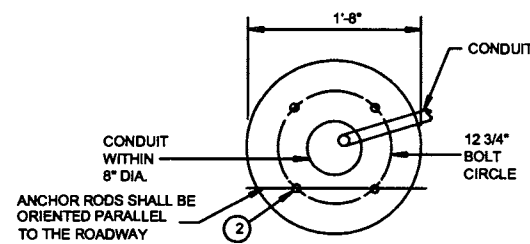
ISOMETRIC VIEW PEDESTAL BASE

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE

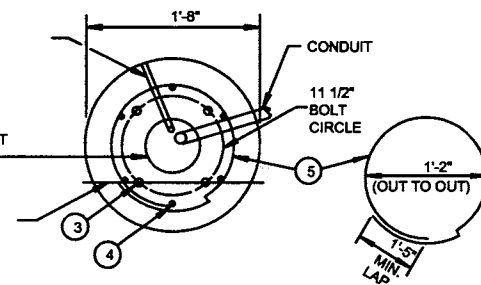


FORMING DETAIL

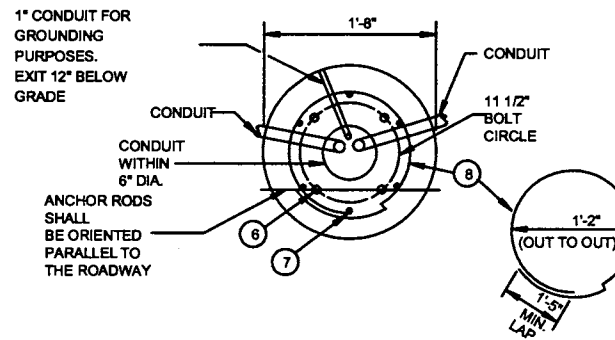
QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18



1" CONDUIT FOR GROUNDING PURPOSES. EXIT 12" BELOW GRADE
 ANCHOR RODS SHALL BE ORIENTED PARALLEL TO THE ROADWAY



1" CONDUIT FOR GROUNDING PURPOSES. EXIT 12" BELOW GRADE



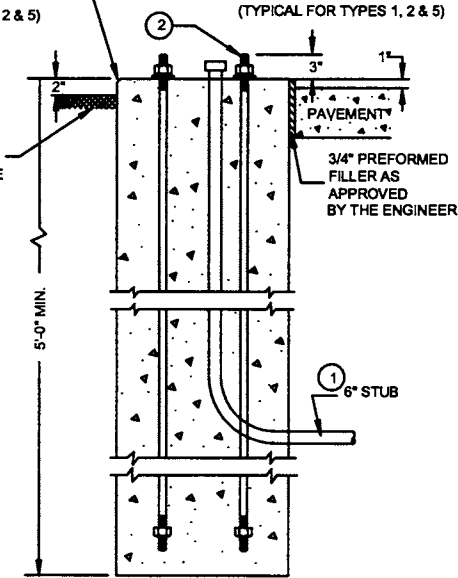
FORM ALL EXPOSED CONCRETE. PROVIDE 1" CHAMFER ALL AROUND

HALF SECTION IN UNPAVED AREA (TYPICAL FOR TYPES 1, 2 & 5)

HALF SECTION IN PAVEMENT (TYPICAL FOR TYPES 1, 2 & 5)

TOPSOIL AND SEED OR CRUSHED AGGREGATE

3/4" PREFORMED FILLER AS APPROVED BY THE ENGINEER

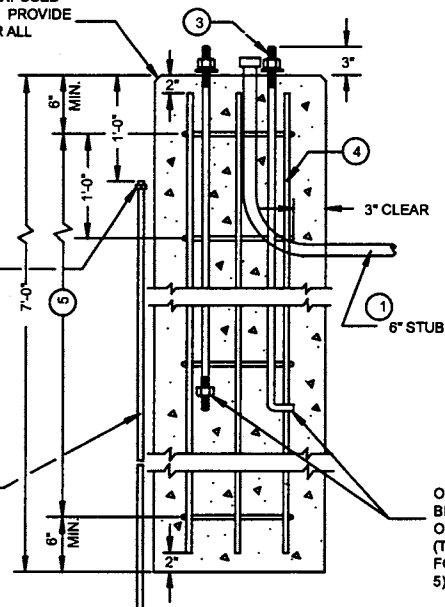


TYPE 1

FORM ALL EXPOSED CONCRETE. PROVIDE 1" CHAMFER ALL AROUND

EXOTHERMIC CONNECTION TO EQUIPMENT GROUNDING CONDUCTOR

5/8" DIA. X 8'-0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED



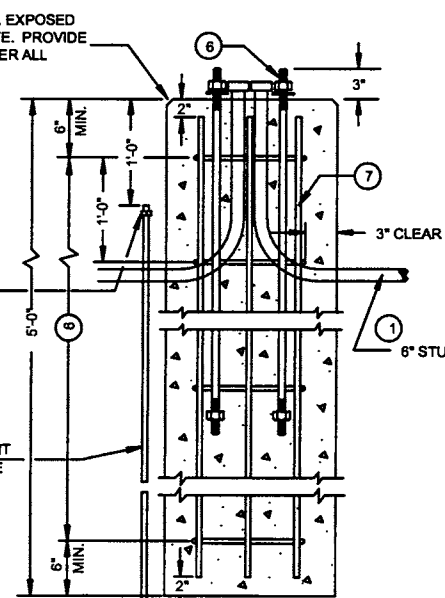
TYPE 2

CONCRETE BASES

FORM ALL EXPOSED CONCRETE. PROVIDE 1" CHAMFER ALL AROUND

EXOTHERMIC CONNECTION TO EQUIPMENT GROUNDING CONDUCTOR

5/8" DIA. X 8'-0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED



TYPE 5

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

GENERAL NOTES (CONTINUED)

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG. STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2 AND TYPE 5 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD, ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 854.2.1 AND 841.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-449, OR ASTM A-687 (GRADE 105).

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE 1" BEND ARE FURNISHED, THE 4" 1" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE 1" BEND END SHALL NOT BE THREADED.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

- ① THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.
- ② (4) 1" DIA. X 3'-6" ANCHOR RODS.
- ③ (4) 1" DIA. X 5'-0" ANCHOR RODS.
- ④ (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.
- ⑤ (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.
- ⑥ (4) 1" DIA. X 3'-6" ANCHOR RODS.
- ⑦ (6) NO. 4 X 4'-8" BAR STEEL REINFORCEMENT
- ⑧ (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES	TYPE OF PIPE	CORRUGATED STEEL									POLYETHYLENE SDR 32.5
		A	12	12	12	18	18	18	24	24	24
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24	12
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48	24
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.4
COVER	D	10 1/4	10 1/4	10 1/4	18 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4	10 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2	14 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	8 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2	11 1/2
WEIGHT IN POUNDS *											
FRAME AND COVER		60	60	60	110	110	110	155	155	155	60

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

POLYETHYLENE PULL BOXES SHALL NOT BE INSTALLED IN CONCRETE OR ASPHALTIC PAVEMENT. PULL BOXES LOCATED IN THE ROADWAY SHALL HAVE LOCKING COVERS.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE. THE MECHANICAL CONNECTION (INSIDE AND OUTSIDE) TO THE PULL BOX, SHALL BE TOTALLY AND PERMANENTLY SEALED WITH A SILICONE OR RUBBERIZED CAULKING COMPOUND AS APPROVED BY THE ENGINEER.

GROUNDING LUGS ARE NOT REQUIRED IN PULL BOXES WHEN VOLTAGES OF LESS THAN 50 VOLTS AC ARE THE ONLY VOLTAGES ENCOUNTERED IN THE BOXES.

DRAIN DUCT SHALL BE MEASURED AND PAID FOR SEPARATELY.

RODENT WIRE SCREEN SHALL BE 1/8" STAINLESS STEEL MESH AND BE INSTALLED WITH A STAINLESS STEEL HOSE CLAMP OF SUFFICIENT SIZE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

CONDUIT DETAIL APPLIES TO THIS DRAWING.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.

IF PULL BOX EQUIPMENT GROUNDING IS REQUIRED USING AN EQUIPMENT GROUNDING ELECTRODE IN EACH PULL BOX, THE EQUIPMENT GROUNDING ELECTRODE SHALL BE 5/8" X 8'-0", COPPERCLAD AND BE EXOTHERMICALLY WELDED TO A #4 AWG, COPPER, STRANDED WIRE (BARE OR GREEN INSULATED). THE #4 AWG WIRE SHALL BE 4 FEET IN LENGTH, NEATLY COILED, TAPED AND AVAILABLE FOR USE WHEN REQUIRED.

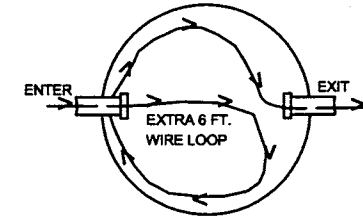
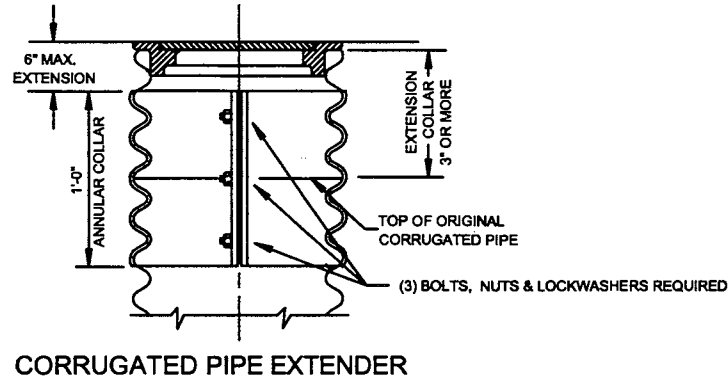
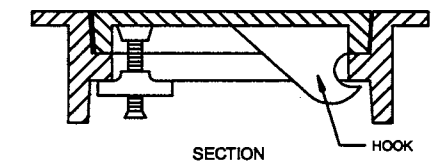
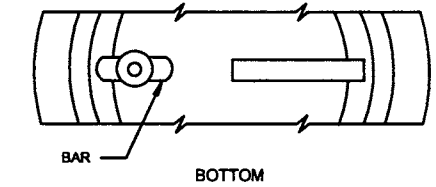
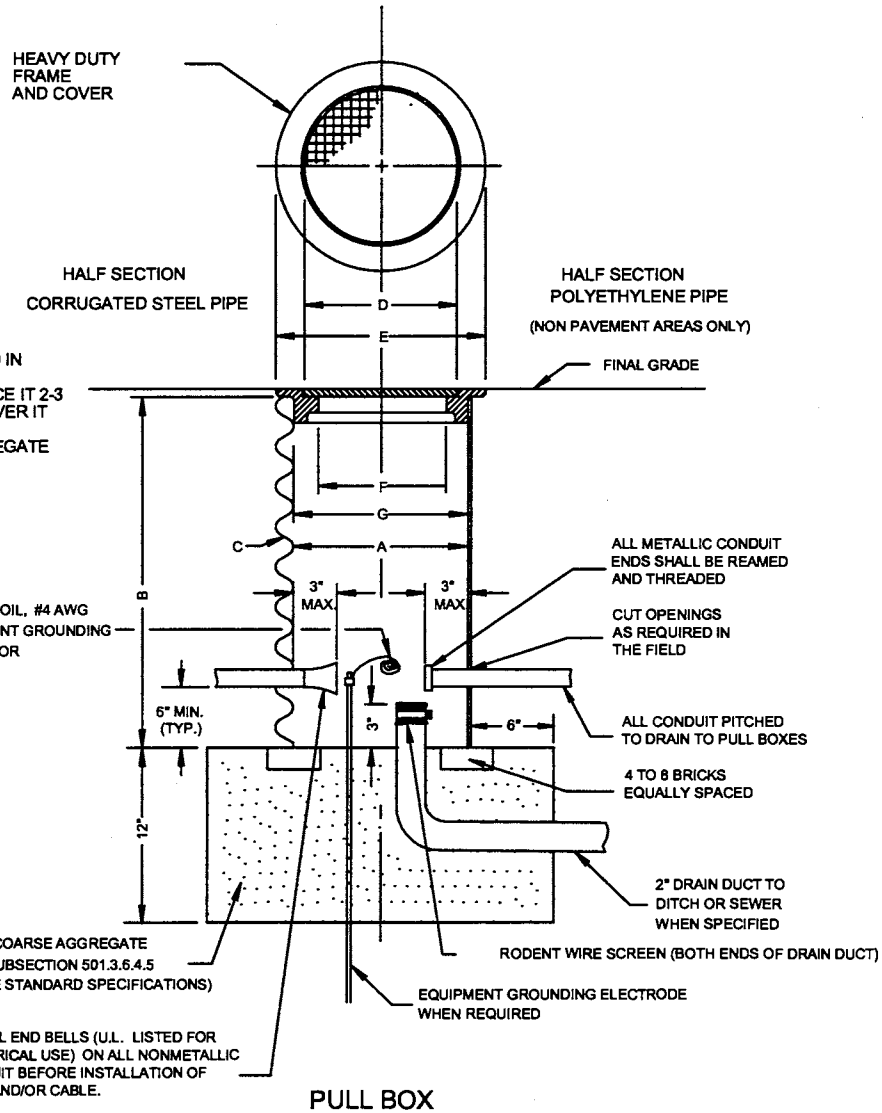
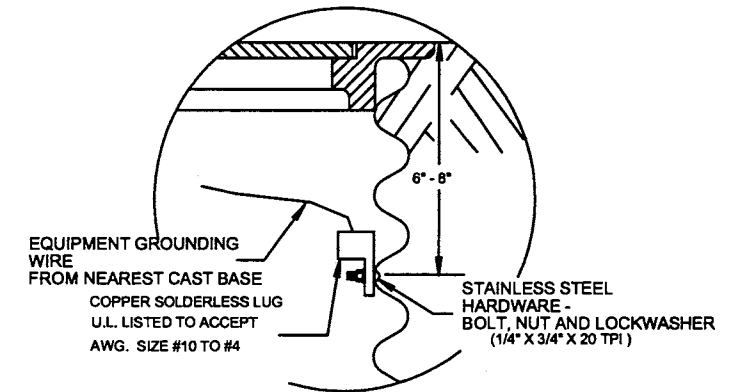


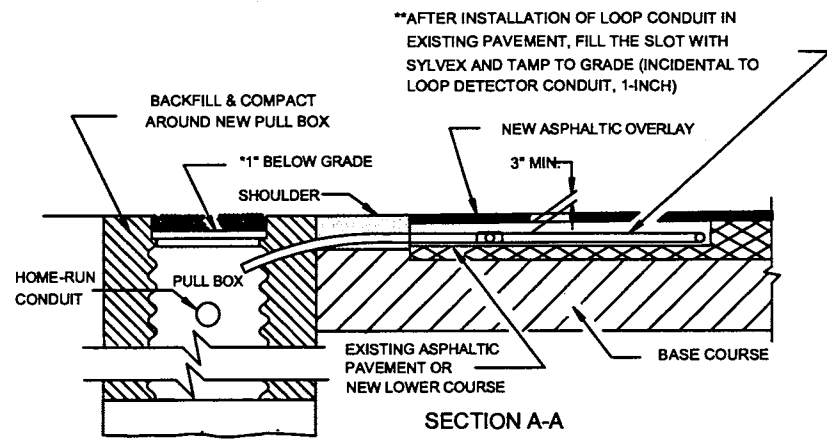
ILLUSTRATION OF WIRE/CABLE PLACEMENT IN PULLBOX



ALTERNATE COVER (LOCKING) TIGHTENING BAR TYPE

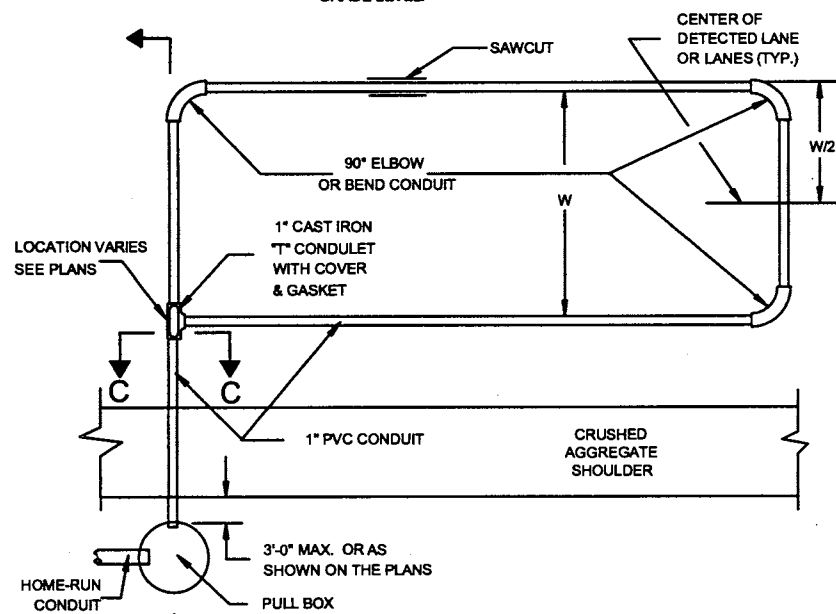


EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

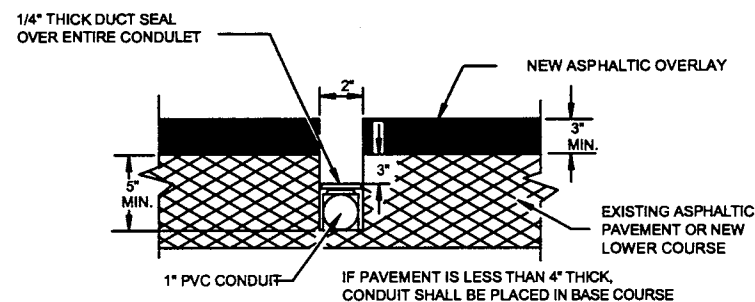


SECTION A-A
NO CURB & GUTTER
LOOP DETECTOR INSTALLATION DETAIL

**RECESS PULL BOX SO THAT THE COVER IS 3\"/>



TYPICAL PLAN OF LOOP DETECTOR



SIDE VIEW
SECTION C-C
LOOP DETECTOR SLOT DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS SUCH AS 3M TYPE 82A1 OR APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

THE GROUND RESISTANCE READING OF THE LOOP SHALL READ "INFINITY" TO GROUND ON AN OHMMETER USING A MULTIPLIER SCALE OF 1 MEGOHM AND AN INPUT RESISTANCE OF 11 MEGOHMS MINIMUM, BEFORE SPLICING THE LOOP TO THE LEAD-IN CABLE.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

BEFORE PLACING THE 1 INCH CONDUIT IN THE CLEANED OUT SLOT, PLACE SOME OF THE TAR OR EPOXY SEALANT IN THE SLOT TO A DEPTH OF APPROXIMATELY 1/2 INCH. IF THE CONDUIT MUST BE PLACED IN THE BASE COURSE, DO NOT PLACE THE TAR OR EPOXY SEALANT IN THE SLOT.

ONCE THE 2" LOOP SLOT HAS BEEN CHIPPED OUT, THE LOOP INSTALLATION SHALL BE COMPLETED PRIOR TO OPENING THE LANE(S) TO TRAFFIC.

ANTI-SIEZE LUBRICATING MATERIAL SHALL BE USED ON ALL THREADS OF THREADED ASSEMBLIES BEFORE INSTALLATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

THE #12 AWG LOOP WIRE FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE INSTALLATION.

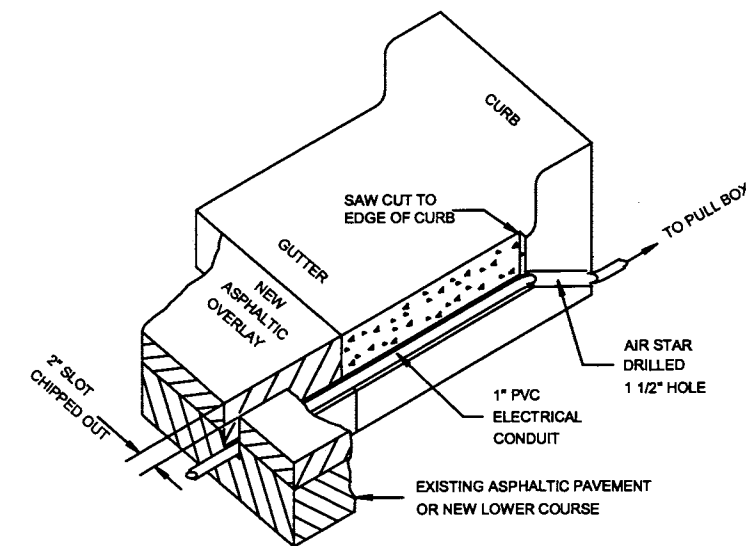
SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL BOX, AND BE INSTALLED IN ONE, NON-SPLICED, CONTINUOUS LENGTH.

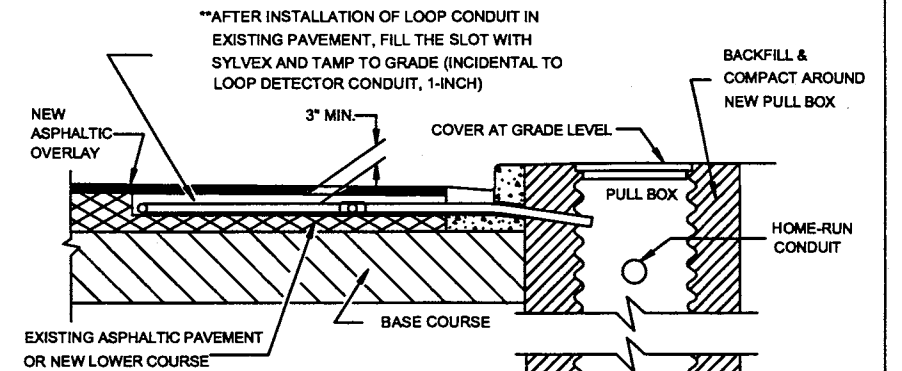
DRIVE A 1 1/2" MAX. PK NAIL INTO THE NEW ASPHALTIC OVERLAY AND ON TOP OF THE CONDULET AFTER THE NEW ASPHALTIC OVERLAY IS INSTALLED, IF REQUIRED BY THE DISTRICT TRAFFIC SECTION.

**AFTER THE SYLVESTEX HAS BEEN TAMPED, SEAL THE SLOT/SYLVESTEX/PAVEMENT OPENING WITH HOT POURED ELASTIC TYPE MATERIAL CONFORMING TO THE REQUIREMENTS OF THE "SPECIFICATION FOR JOINT SEALANTS, HOT POURED, FOR CONCRETE AND ASPHALT PAVEMENTS, ASTM DESIGNATION: D3405".

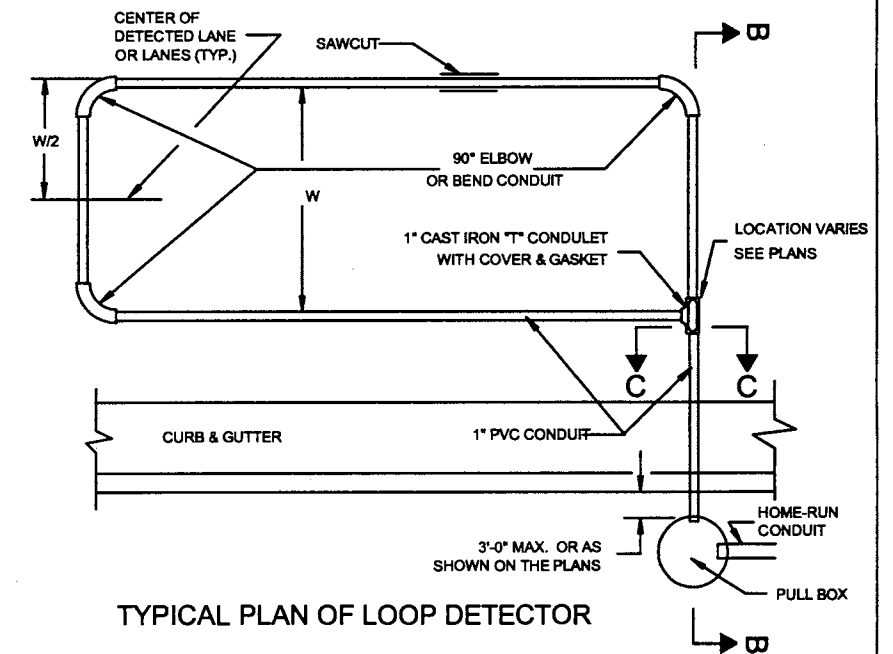
IN THE EVENT SYLVESTEX IS NOT AVAILABLE, AND FLEXIBLE TYPE EPOXY IS USED AS A LOOP SLOT FILLER, THE 2 INCH SLOT SHALL BE TOTALLY CLEAN AND DRY BEFORE ITS INSTALLATION. EPOXY USE SHALL BE APPROVED BY THE DISTRICT TRAFFIC ENGINEER AND THE FURNISHED EPOXY SHALL BE INSTALLED AFTER WRITTEN APPROVAL BY THE PROJECT ENGINEER.



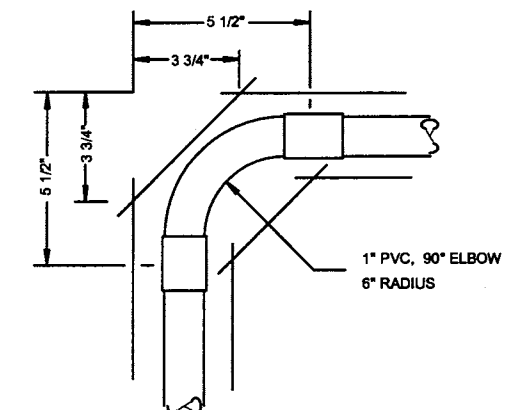
ISOMETRIC VIEW
TYPICAL SAW CUT DETAIL FOR LEAD-IN CONDUIT



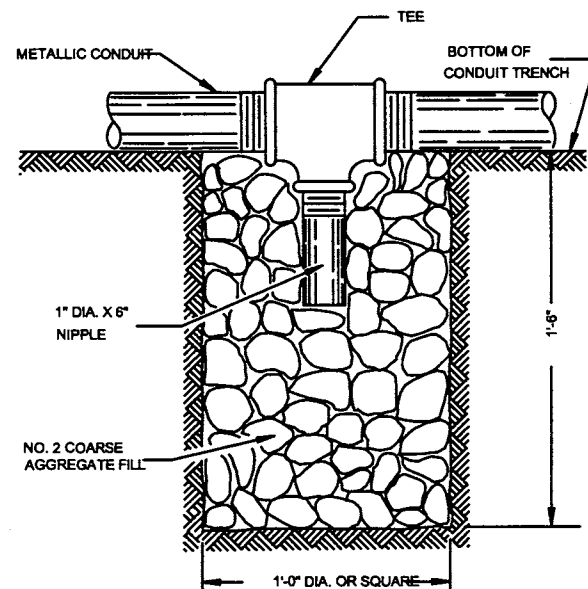
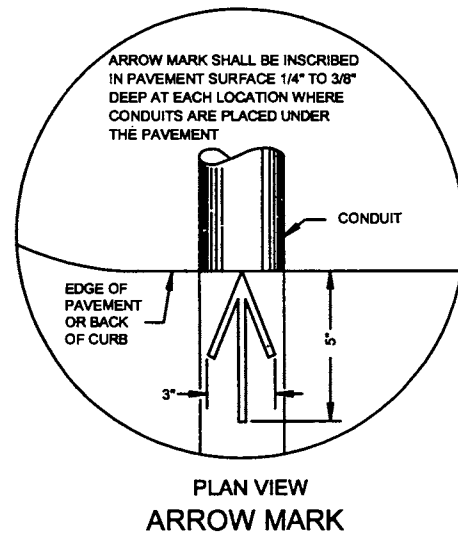
SECTION B-B
CURB & GUTTER
LOOP DETECTOR INSTALLATION DETAIL



TYPICAL PLAN OF LOOP DETECTOR

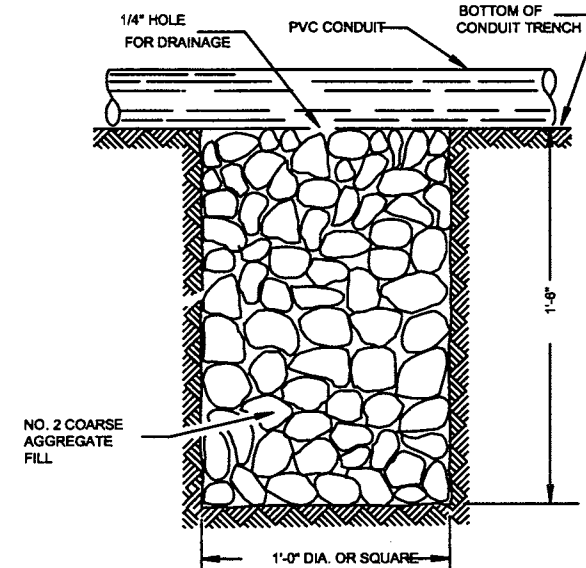


TOP VIEW
CORNER SAW SLOT DETAIL



NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR METALLIC CONDUIT



NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR PVC CONDUIT

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

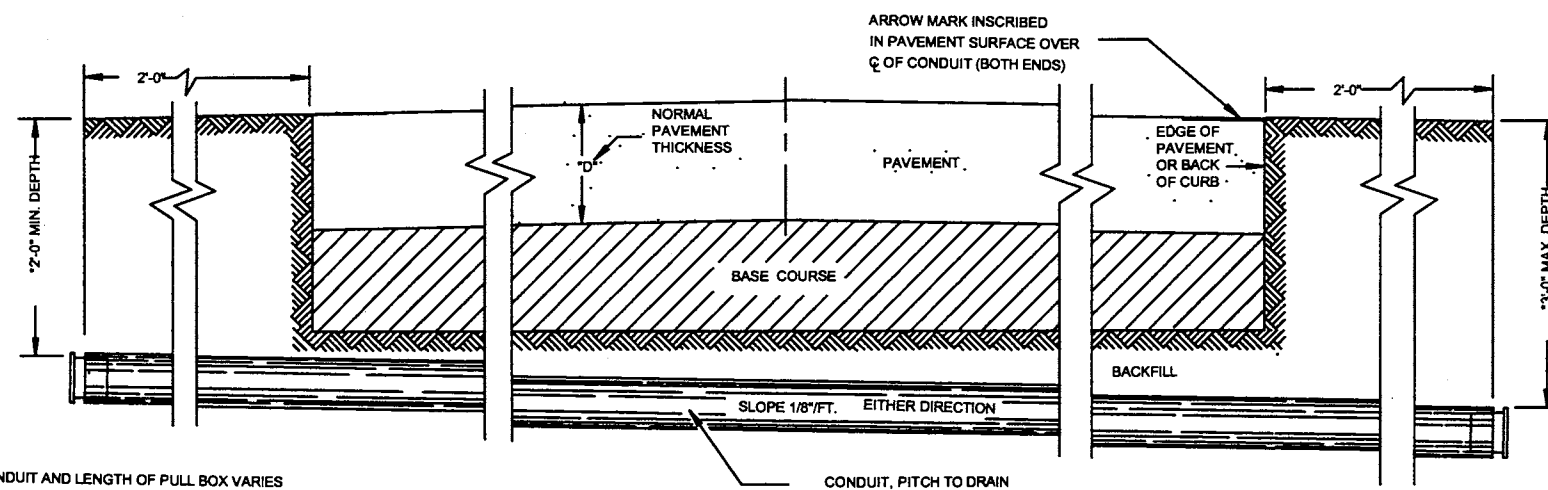
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX OR JUNCTION BOX TO JUNCTION BOX OR BASE TO BASE, ETC.).

POLY ROPE OR A PULL WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS UNLESS OTHERWISE APPROVED BY THE PROJECT ENGINEER.



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX DETAIL.

SIDE ELEVATION
DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION		QUANTITY	ITEM NO.	DESCRIPTION		QUANTITY
20335	REMOVING SMALL PIPE CULVERTS, STATION 6 + 63 RT-LT	EA	1	65226	NONMETALLIC CONDUIT, SCHEDULE 80, 1-INCH	LF	164
20405	REMOVING CURB AND GUTTER	LF	837	65229	NONMETALLIC CONDUIT, SCHEDULE 80, 2-INCH	LF	794
20501	COMMON EXCAVATION	CY	19,168	65231	NONMETALLIC CONDUIT, SCHEDULE 80, 3-INCH	LF	418
30404	CRUSHED AGGREGATE BASE COURSE	TON	8,223	65250	LOOP DETECTOR CONDUIT	LF	352
40204	ASPHALTIC MATERIAL FOR TACK COAT	GAL	699	65303	PULL BOXES, STEEL, 18 X 24-INCH	EA	3
40501	ASPHALTIC MATERIAL FOR PLANT MIXES	TON	250	65306	PULL BOXES, STEEL, 24 X 36-INCH	EA	6
40721	ASPHALTIC CONCRETE PAVEMENT, TYPE E-1	TON	4,139	65401	CONCRETE BASES, TYPE 1	EA	6
52260	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE 12-INCH	EA	1	65402	CONCRETE BASES, TYPE 2	EA	4
52261	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE 15-INCH	EA	2	65418	CONCRETE CONTROL CABINET BASES, TYPE 9	EA	1
60120	CONCRETE CURB AND GUTTER, 18-INCH, TYPE D	LF	3,310	65425	PEDESTAL BASES	EA	6
60133	CONCRETE CURB AND GUTTER, 30-INCH, TYPE D	LF	4,375	65430	TRANSFORMER BASES, STANDARD 11 1/2-INCH, BOLT CIRCLE	EA	4
60825	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 12-INCH	LF	313	65524	TRAFFIC SIGNAL CABLE, 5 CONDUCTOR, NO. 14	LF	157
60826	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 15-INCH	LF	573	65526	TRAFFIC SIGNAL CABLE, 7 CONDUCTOR, NO. 14	LF	44
61110	MANHOLES, TYPE 1	EA	2	65530	TRAFFIC SIGNAL CABLE, 12 CONDUCTOR, NO. 14	LF	268
61122	INLETS, TYPE 3	EA	8	65536	TRAFFIC SIGNAL CABLE, 21 CONDUCTOR, NO. 14	LF	816
61129	RECONSTRUCTING INLETS	EA	1	65545	TYPE UF CABLE, 2 CONDUCTOR, NO. 12 GROUNDED	LF	549
61151	MANHOLE COVERS, TYPE J	EA	2	65557	ELECTRICAL WIRE, TRAFFIC SIGNALS, NO. 10	LF	739
61167	INLET COVERS, TYPE H	EA	7	65566	ELECTRICAL WIRING, LIGHTING, NO. 12	LF	160
61182	ADJUSTING MANHOLE COVERS	EA	1	65580	LOOP DETECTOR LEAD IN CABLE	LF	3,007
62003	CONCRETE MEDIAN SLOPED NOSE	SF	321	65585	LOOP DETECTOR WIRE	LF	1,404
62505	SALVAGED TOPSOIL	SY	6,840	65615	ELECTRICAL SERVICE, METER BREAKER PEDESTAL	EA	1
62702	MULCHING	SY	6,840	65703	POLES, TYPE 3, AMRON	LF	2
62811	EROSION BALES, DELIVERED	EA	12	65704	POLES, TYPE 4	LF	2
62812	EROSION BALES, INSTALLED	EA	12	65732	TRAFFIC SIGNAL STANDARDS, ALUMINUM, 13-FOOT, BOLT CIRCLE	LF	4
62815	SILT FENCE, DELIVERED	LF	40	65733	TRAFFIC SIGNAL STANDARDS, ALUMINUM, 15-FOOT	LF	2
62816	SILT FENCE, INSTALLED	LF	40	65802	TROMBONE ARMS, 15-FOOT	LF	1
62817	SILT FENCE MAINTENANCE	LF	40	65803	TROMBONE ARMS, 20-FOOT	LF	1
62870	INLET PROTECTION, TYPE A	EA	10	65826	TRAFFIC SIGNAL FACES, 3 - 12-INCH, VERTICAL, SPECIAL-LED	EA	8
62872	INLET PROTECTION, TYPE C	EA	10	65828	TRAFFIC SIGNAL FACES, 5 - 12-INCH, VERTICAL, SPECIAL-LED	EA	4
62905	FERTILIZER, TYPE B	CWT	4	65829	TRAFFIC SIGNAL FACES, 3 - 12-INCH, HORIZONTAL, SPECIAL-LED	EA	2
63011	SEEDING MIXTURE NO. 40	LB	124	65850	TRAFFIC SIGNAL MOUNTING HARDWARE, (SB1) LUMP SUM	EA	6
63403	WOOD POSTS 4 X 4-INCH X 14-FOOT	EA	23	65851	TRAFFIC SIGNAL MOUNTING HARDWARE, (SB2) LUMP SUM	EA	1
63702	SIGNS, TYPE II, REFLECTIVE	SF	148	65852	TRAFFIC SIGNAL MOUNTING HARDWARE, (SB3) LUMP SUM	EA	1
63822	MOVING SIGNS, TYPE II	EA	2	65853	TRAFFIC SIGNAL MOUNTING HARDWARE, (SB4) LUMP SUM	EA	1
63827	REMOVING SIGNS, TYPE II	EA	12	65854	TRAFFIC SIGNAL MOUNTING HARDWARE, (SB5) LUMP SUM	EA	1
63830	REMOVING SMALL SIGN SUPPORTS	EA	14	65855	TRAFFIC SIGNAL MOUNTING HARDWARE, (SB6) LUMP SUM	EA	1
64181	OVERHEAD SIGN SUPPORT, STRUCTURE S-1-1	EA	1	65856	TRAFFIC SIGNAL MOUNTING HARDWARE, (SB7) LUMP SUM	EA	1
64301	TRAFFIC CONTROL, LUMP SUM	LF	1	65857	TRAFFIC SIGNAL MOUNTING HARDWARE, (SB8) LUMP SUM	EA	1
64602	PAVEMENT MARKING, 4-INCH, EPOXY	LF	3,826	65858	TRAFFIC SIGNAL MOUNTING HARDWARE, (SB9) LUMP SUM	EA	1
64618	PAVEMENT MARKING, CHANNELIZING, 8-INCH, EPOXY	LF	507	65859	TRAFFIC SIGNAL MOUNTING HARDWARE, (SB10) LUMP SUM	EA	1
64710	PAVEMENT MARKING, STOP LINE, 18-INCH, EPOXY	LF	127	65903	LUMINAIRES, 150 WATTS, H PS	EA	4
64730	PAVEMENT MARKING, ARROWS, TYPE 1, EPOXY	EA	1	65935	LUMINAIRES ARMS, TRUSS TYPE, 4 1/2-INCH CLAMP, 10-FOOT	EA	4
64734	PAVEMENT MARKING, ARROWS, TYPE 2, EPOXY	EA	5	66501	SAWING EXISTING PAVEMENT	LF	308
64738	PAVEMENT MARKING, ARROWS, TYPE 3, EPOXY	EA	1	90859	TRAFFIC SIGNAL CONTROLLER, FULLY ACTIVATED, 8-PHASE	EA	1
64758	PAVEMENT MARKING, WORDS, EPOXY	EA	3	91006	EXISTING MANHOLE TIE-INS	EA	1
64770	PAVEMENT MARKING, DIAGONAL, 12-INCH, EPOXY	LF	150	91008	RELOCATE INLET	EA	2
64790	PAVEMENT MARKING, ISLAND NOSE, EPOXY	EA	7	91015	RELOCATE HYDRANT	EA	4

STORM SEWER MANHOLE SCHEDULE

LOCATION	STRUCTURE NUMBER	STATION	OFFSET	FLOWLINE	INVERT	INVERT	SUMP	DEPTH	61110	61151
				ELEVATION (FT)	ELEVATION (FT)	ELEVATION (FT)			MANHOLES TYPE 1 (EA)	MANHOLE COVERS TYPE J (EA)
CTH "XX"	MH 1	3 + 36.93	15.09 L	1175.40	1171.32	-	2	6.08	1	1
CTH "XX"	MH 2	6 + 50.00	10.50 L	1176.21	1171.38	1171.63	2	6.83	1	1
TOTALS								12.91	2	2

STORM SEWER INLET SCHEDULE

LOCATION	STRUCTURE NUMBER	STATION	OFFSET	FLANGE	INVERT	INVERT	SUMP	DEPTH	61122	61129	61167
				ELEVATION (FT)	ELEVATION (FT)	ELEVATION (FT)			INLETS TYPE 3 (EA)	RECONSTRUCT INLET (EA)	INLET COVERS TYPE H (EA)
CTH XX	EX INLET	1 + 34.63	25.76 R	1174.29	-	-	-	-	-	1	-
CTH XX	INLET 1A	2 + 33.96	26.50 R	1174.15	1171.30	1171.55	2	4.85	1	-	1
CTH XX	INLET 1B	2 + 33.96	47.50 L	1174.15	1171.57	-	2	4.58	1	-	1
CTH XX	INLET 2A	6 + 50.00	26.50 R	1175.02	1171.75	-	2	5.27	1	-	1
CTH XX	INLET 2B	6 + 50.00	47.50 L	1175.02	1171.75	-	2	5.27	1	-	1
CTH XX	INLET 3A	13 + 50.00	26.50 R	1176.17	1174.17	-	2	4.00	1	-	1
CTH XX	INLET 3B	13 + 50.00	47.50 L	1176.17	1174.04	-	2	4.13	1	-	1
CTH XX	INLET 4A	17 + 77.99	46.50 L	1176.25	1174.02	-	2	4.23	1	-	-
CTH XX	INLET 4B	17 + 83.46	24.83 R	1176.25	1174.25	-	2	4.00	1	-	1
TOTALS								TOTALS	8	1	7

STORM SEWER PIPE SCHEDULE

LOCATION	PIPE LOCATION		60825	60826	UPPER	LOWER	SLOPE	PIPE
	FROM	TO	RCP CL III 12-INCH (FT)	RCP CL III 15-INCH (FT)	INVERT (FT)	INVERT (FT)		DROP (FT)
CTH XX	EX MH	INLET 1A	-	109	1171.30	1171.27	.0002	0.03
CTH XX	INLET 1A	MH 1	-	111	1171.32	1171.30	.0002	0.02
CTH XX	MH 1	MH 2	-	313	1171.38	1171.32	.0002	0.06
CTH XX	INLET 1A	INLET 1B	70	-	1171.57	1171.55	.0003	0.02
CTH XX	MH 1	GANDER POND	-	40	1171.50	1171.32	.0045	0.18
CTH XX	MH 2	INLET 2A	35	-	1171.75	1171.63	.0034	0.12
CTH XX	MH 2	INLET 2B	35	-	1171.75	1171.63	.0019	0.12
CTH XX	INLET 3A	INLET 3B	70	-	1174.17	1174.04	.0019	0.13
CTH XX	INLET 3B	OUTFALL	21	-	1174.04	1174.00	.0033	0.04
CTH XX	INLET 4B	INLET 4A	70	-	1174.25	1174.02	.0005	0.23
CTH XX	INLET 4A	OUTFALL	4	-	1174.02	1174.00	-	0.02
CTH XX	EX INLET	EX PIPE	8	-	-	-	-	-
TOTAL			313	573				

REMOVING CURB AND GUTTER

LOCATION	STATION	OFFSET	TO	STATION	OFFSET	20405 REMOVING CURB & GUTTER		COMMENTS
						(LF)		
CTH "XX"	0 + 50.00	R	-	1 + 40.00	R	90		
CTH "XX"	0 + 50.00	R	-	1 + 40.00	R	115		MEDIAN
TRAILWOOD LANE	0 + 00.00	R	-	2 + 90.00	R	600		
CTH "XX"	1 + 10.00	L	-	1 + 42.00	L	32		
						TOTAL	837	

CONCRETE CURB AND GUTTER SCHEDULE

LOCATION	STATION	OFFSET	TO	STATION	OFFSET	60120 CONCRETE CURB & GUTTER 30-INCH, TYPE D		90004 CONCRETE CURB & GUTTER 18-INCH, TYPE D		COMMENTS
						(LF)		(LF)		
C.T.H. "XX"	0 + 50.00	R	-	17 + 30.00	R	1,737		-		
C.T.H. "XX"	17 + 75.00	R	-	19 + 63.00	R	215		-		
C.T.H. "XX"	1 + 07.00	L	-	17 + 33.00	L	1,587		-		
C.T.H. "XX"	17 + 75.00	L	-	20 + 00.00	L	256		-		
TRAILWOOD	0 + 00.00	L	-	2 + 90.00	L	290		-		
TRAILWOOD	0 + 00.00	R	-	2 + 90.00	R	290		-		
C.T.H. "XX"	1 + 30.00	R & L	-	5 + 36.00	R & L	-		911		MEDIAN
C.T.H. "XX"	6 + 09.00	L & R	-	12 + 50.00	L & R	-		1,281		MEDIAN
C.T.H. "XX"	13 + 09.00	R & L	-	16 + 88.00	R & L	-		739		MEDIAN
C.T.H. "XX"	18 + 10.00	L & R	-	19 + 95.00	L & R	-		379		MEDIAN
						TOTALS	4,375	3,310		

SAWING EXISTING PAVEMENT

LOCATION	STATION	OFFSET	66501 SAWING EXISTING PAVEMENT		COMMENTS
			(LF)		
CTH "XX"	0 + 30.00	R	48		
CTH "XX"	1 + 40.00	L	48		
CTH "XX"	23 + 00.00	L	30		
TRAILWOOD LANE	0 + 00.00	R & L	38		
CTH "XX"	12 + 68.79	R	68		MALL FURNITURE
CTH "XX"	13 + 21.18	R	30		MALL FURNITURE
CTH "XX"	14 + 15.49	R	46		MALL FURNITURE
			TOTAL	308	

CONCRETE MEDIAN SLOPED NOSE

LOCATION	STATION	62003 CONCRETE MEDIAN SLOPED NOSE	
		(SF)	
C.T.H. "XX"	19 + 60.00	51	
C.T.H. "XX"	18 + 13.00	43	
C.T.H. "XX"	16 + 87.00	42	
C.T.H. "XX"	13 + 10.00	43	
C.T.H. "XX"	12 + 50.00	50	
C.T.H. "XX"	6 + 09.00	49	
C.T.H. "XX"	5 + 35.00	43	
		TOTAL	321

REMOVING OLD CULVERTS

LOCATION	STATION	OFFSET (FT)	20335 REMOVING OLD CULVERTS	
			(EA)	
C.T.H. "XX"	14 + 10.00	28 R	1	
			TOTALS	1

ADJUSTING AND RECONSTRUCTING MANHOLES AND INLETS

LOCATION	STATION	OFFSET (FT)	91006 EXIST. MANHOLE PIPE		61182 ADJUSTING MANHOLE COVERS		61129 RECONSTRUCT INLETS	
			(EA)		(EA)		(EA)	
C.T.H. "XX"	1 + 34.63	26 R	1				1	
C.T.H. "XX"	1 + 34.63	48.48 L			1			
			TOTALS	1	1		1	

HYDRANT RELOCATION

STATION	OFFSET (FT)	91015 QUANTITY	
4 + 02.73	46.13' L	1	
8 + 99.78	52.62' L	1	
14 + 35.65	49.18' L	1	
19 + 50.98	34.92' L	1	
		TOTAL	4

PAVEMENT MARKING, EPOXY

LOCATION	STATION	TO	STATION	64602	64618	64710	64730	64734	64738	64758	64770	64790	REMARKS
				WHITE 4-INCH (LF)	WHITE CHANNELIZING 8-INCH (LF)	WHITE STOP LINE 18-INCH (LF)	ARROWS TYPE 1 (EA)	ARROWS TYPE 2 (EA)	ARROWS TYPE 3 (EA)	WORDS (EA)	WHITE DIAGONAL 12-INCH (LF)	YELLOW ISLAND NOSE (EA)	
CTH XX	0 + 40.00	-	21 + 50.00	3,376	507	92	1	5	1	3	150	7	SEE PAVEMENT MARKING DETAILS
TRAILWOOD LANE	2 + 00.00	-	3 + 00.00	450	-	35	-	-	-	-	-	-	SEE PAVEMENT MARKING DETAILS
TOTALS				3,826	507	127	1	5	1	3	150	7	

PAVEMENT SCHEDULE

LOCATION	STATION	TO	STATION	OFFSET	40722	40501	40204	COMMENTS
					ASPHALTIC CONCRETE PAVEMENT TYPE E-1 (TON)	ASPHALTIC MATERIAL FOR PLANT MIXES (TON)	ASPHALT MATERIAL FOR TACK COAT (GAL)	
CTH XX	0 + 50.00	-	23 + 00.00		3,640 (5")	218	634	ROADWAY
TRAILWOOD LANE	0 + 00.00	-	3 + 10.00		360 (5")	22	65	ROADWAY
CTH XX	12 + 50.00				75 (3")	5	-	CE
CTH XX	21 + 10.00				9 (3")	1	-	CE
CTH XX	3 + 65.00	-	5 + 35.00	L	13 (2")	1	-	MEDIAN
CTH XX	13 + 09.00	-	16 + 87.00	L	29 (2")	2	-	MEDIAN
CTH XX	18 + 10.00	-	19 + 95.00	L	13 (2")	1	-	
TOTAL					4,139	250	699	

CONCRETE CONTROL CABINET BASES

CONTROL CABINET BASE NO.	65418 CONCRETE CABINET BASE TYPE 9 (EA)
CTH XX @ TRAILWOOD CB1	1

LANDSCAPING SCHEDULE

LOCATION	STATION	TO	STATION	62505	62702	63011	62905	COMMENTS
				SALVAGED TOPSOIL (SY)	MULCHING (SY)	SEEDING MIX NO. 40 (LBS)	FERTILIZER TYPE B (CWT)	
CTH XX	0 + 50.00	-	23 + 00.00	5,000	5,000	90	3.14	MAINLINE
CTH XX	0 + 30.00	-	3 + 65.00	588	588	11	0.37	MEDIAN
CTH XX	6 + 08.00	-	12 + 50.00	1,252	1,252	23	0.79	MEDIAN
TOTAL				6,840	6,840	124	4.30	

TRAFFIC CONTROL

SEE DETAILS

CRUSHED AGGREGATE BASE COURSE SCHEDULE

LOCATION	STATION	TO	STATION	RT LT	30404
					CABC CRUSHED STONE (TON)
CTH XX	0 + 37.00	-	23 + 00.00		7,416
CTH XX	12 + 50.00	-		RT	200
CTH XX	21 + 10.00	-		LT	23
TRAILWOOD LANE	0 + 00.00	-	3 + 10.00		584
TOTAL					8,223

OVERHEAD SIGN SUPPORT SCHEDULE

LOCATION	STATION	OFFSET (FT)	64818 STRUCTURE S-1-1 (EA)
CTH XX	14 + 40.00	29' R	1

SIGNING SCHEDULE

LOCATION	STATION	OFFSET	SIGN NO.	CODE NO.	SIZE (IN X IN)	63702	63403	63822	63827	63830	REMARKS
						SIGNS TYPE II REFLECTIVE (SF)	WOOD POSTS 4" X 4" 14-FOOT (EA)	MOVING SIGNS TYPE II (EA)	REMOVING SIGNS TYPE II (EA)	REMOVING SMALL SIGN SUPPORTS (EA)	
C.T.H. "XX"	-0 + 18.03	R	1	-	-	-	-	-	1	1	MOVE SIGN - SEE PLAN NEW LOCATION
C.T.H. "XX"	0 + 34.24	R	2	-	-	-	1	1	-	1	MOVE SIGN - SEE PLAN NEW LOCATION
C.T.H. "XX"	1 + 32.23	R	3	-	-	-	1	1	-	1	REMOVE SIGN
C.T.H. "XX"	1 + 19.30	R	4	-	-	-	-	-	1	1	REMOVE SIGN
C.T.H. "XX"	5 + 05.30	R	5	-	-	-	-	-	1	1	REMOVE SIGN
C.T.H. "XX"	6 + 59.43	R	6	-	-	-	-	-	1	1	REMOVE SIGN
C.T.H. "XX"	8 + 27.98	R	7	-	-	-	-	-	1	1	REMOVE SIGN
C.T.H. "XX"	10 + 66.33	R	8	-	-	-	-	-	1	1	REMOVE SIGN
C.T.H. "XX"	12 + 68.17	R	9	-	-	-	-	-	1	1	REMOVE SIGN
C.T.H. "XX"	14 + 68.57	R	10	-	-	-	-	-	1	1	REMOVE SIGN
C.T.H. "XX"	15 + 08.28	R	11	-	-	-	-	-	1	1	REMOVE SIGN
C.T.H. "XX"	17 + 30.46	R	12	-	-	-	-	-	1	1	REMOVE SIGN
C.T.H. "XX"	17 + 77.48	R	13	-	-	-	-	-	1	1	REMOVE SIGN
C.T.H. "XX"	18 + 13.36	R	14	-	-	-	-	-	1	1	REMOVE SIGN
C.T.H. "XX"	1 + 19.93	L	15	R2-1	24 x 30	5	1	-	-	-	-
C.T.H. "XX"	4 + 07.14	L	16	R2-1	24 x 30	5	1	-	-	-	-
C.T.H. "XX"	3 + 55.45	L	17	R3-7L	30 x 30	6.25	1	-	-	-	-
C.T.H. "XX"	5 + 35.74	L	18	R4-7	24 x 30	5	1	-	-	-	-
C.T.H. "XX"	6 + 09.70	L	19	R4-7	24 x 30	5	1	-	-	-	-
C.T.H. "XX"	5 + 53.86	L	20	R1-1	36 x 36	9	1	-	-	-	-
C.T.H. "XX"	7 + 20.85	R	21	R2-1	24 x 30	5	1	-	-	-	-
C.T.H. "XX"	9 + 25.33	L	22	R2-1	24 x 30	5	1	-	-	-	-
C.T.H. "XX"	12 + 49.22	L	23	R4-7	24 x 30	5	1	-	-	-	-
C.T.H. "XX"	13 + 09.70	L	24	R4-7	24 x 30	5	1	-	-	-	-
C.T.H. "XX"	13 + 38.39	L	25	R3-7L	30 x 30	6.25	1	-	-	-	-
C.T.H. "XX"	13 + 06.93	R	26	R1-1	36 x 36	9	1	-	-	-	-
C.T.H. "XX"	14 + 40.00	R	27	R3-5R	30 x 36	7.5	-	-	-	-	MOUNTED ON OVERHEAD SIGN SUPPORT
C.T.H. "XX"	14 + 40.00	R	28	R3-5A	30 x 36	7.5	-	-	-	-	MOUNTED ON OVERHEAD SIGN SUPPORT
C.T.H. "XX"	14 + 40.00	R	29	R3-5L	30 x 36	7.5	-	-	-	-	MOUNTED ON OVERHEAD SIGN SUPPORT
C.T.H. "XX"	15 + 77.58	R	30	R2-1	24 x 30	5	1	-	-	-	-
C.T.H. "XX"	15 + 77.58	L	31	R2-1	24 x 30	5	1	-	-	-	-
C.T.H. "XX"	16 + 87.83	L	32	R4-7	24 x 30	5	1	-	-	-	-
C.T.H. "XX"	18 + 13.38	L	33	R4-7	24 x 30	5	1	-	-	-	-
C.T.H. "XX"	18 + 13.38	L	34	R3-5L	30 x 36	7.5	1	-	-	-	-
C.T.H. "XX"	18 + 13.38	L	35	R3-6R	30 x 36	7.5	1	-	-	-	-
C.T.H. "XX"	19 + 00.00	R	36	R2-1	24 x 30	5	1	-	-	-	-
C.T.H. "XX"	18 + 00.00	R	37	R3-5L	30 x 36	7.5	1	-	-	-	-
C.T.H. "XX"	18 + 00.00	R	38	R3-6R	30 x 36	7.5	1	-	-	-	-
TOTALS						148	23	2	12	14	

EROSION CONTROL SCHEDULE

LOCATION	STATION	OFFSET (FT)	62811	62812	62815	62816	62817	62870	62872	STRUCTURE NO.
			EROSION BALES DELIVERED (EA)	EROSION BALES INSTALLED (EA)	SILT FENCE DELIVERED (LF)	SILT FENCE INSTALLED (LF)	SILT FENCE MAINTENANCE (LF)	INLET PROTECTION TYPE A (EA)	INLET PROTECTION TYPE C (EA)	
CTH "XX"	1 + 34.63	47.00 L	-	-	-	-	-	1	1	EXISTING INLET
CTH "XX"	1 + 34.63	25.76 R	-	-	-	-	-	1	1	EXISTING INLET
CTH "XX"	2 + 33.96	26.50 R	-	-	-	-	-	1	1	INLET 1a
CTH "XX"	2 + 33.96	47.50 L	-	-	-	-	-	1	1	INLET 1b
CTH "XX"	6 + 50.00	26.50 R	-	-	-	-	-	1	1	INLET 2a
CTH "XX"	6 + 50.00	47.50 L	-	-	-	-	-	1	1	INLET 2b
CTH "XX"	13 + 50.00	26.50 R	-	-	-	-	-	1	1	INLET 3a
CTH "XX"	13 + 50.00	47.50 L	-	-	-	-	-	1	1	INLET 3b
CTH "XX"	13 + 50.00	68.00 L	6	6	20	20	20	-	-	OUTFALL
CTH "XX"	17 + 77.09	46.52 L	-	-	-	-	-	1	1	INLET 4a
CTH "XX"	17 + 83.46	24.83 R	-	-	-	-	-	1	1	INLET 4b
CTH "XX"	17 + 77.09	50.00 L	-	-	-	-	-	-	-	OUTFALL
TOTALS			12	12	40	40	40	10	10	

LOOP DETECTOR SCHEDULE

LOCATION	DETECTOR NUMBER	SIZE (FT)	NUMBER OF TURNS	65250 LOOP DETECTOR CONDUIT (LF)	65585 LOOP DETECTOR WIRE (LF)	65580 LOOP DETECTOR LEAD IN CABLE (LF)
CTH "XX" & TRAILWOOD LANE	LD21	6 X 6	5	24	130	306
CTH "XX" & TRAILWOOD LANE	LD22	6 X 6	5	24	130	294
CTH "XX" & TRAILWOOD LANE	LD41	6 X 20	3	52	156	52
CTH "XX" & TRAILWOOD LANE	LD51	6 X 20	3	52	156	91
CTH "XX" & TRAILWOOD LANE	LD61	6 X 6	5	24	130	416
CTH "XX" & TRAILWOOD LANE	LD62	6 X 6	5	24	130	406
CTH "XX" & TRAILWOOD LANE	LD81	6 X 6	5	24	130	493
CTH "XX" & TRAILWOOD LANE	LD82	6 X 6	5	24	130	481
CTH "XX" & TRAILWOOD LANE	LD83	6 X 20	3	52	156	240
CTH "XX" & TRAILWOOD LANE	LD84	6 X 20	3	52	156	228
TOTAL				352	1,404	3,007

TRAFFIC SIGNAL AND STREET LIGHT BASE SCHEDULE

LOCATION	SIGNAL BASE NUMBER	65401 CONCRETE BASE TYPE 1 (EA)	65402 CONCRETE BASE TYPE 2 (EA)	65425 PEDESTAL BASE (EA)	65430 TRANSFORMER BASES STANDARD 11 1/2-INCH (EA)
CTH "XX" & TRAILWOOD LANE	SB1	1	-	1	-
CTH "XX" & TRAILWOOD LANE	SB2	-	1	-	1
CTH "XX" & TRAILWOOD LANE	SB3	1	-	1	-
CTH "XX" & TRAILWOOD LANE	SB4	-	1	-	1
CTH "XX" & TRAILWOOD LANE	SB5	1	-	1	-
CTH "XX" & TRAILWOOD LANE	SB6	1	-	1	-
CTH "XX" & TRAILWOOD LANE	SB7	-	1	-	1
CTH "XX" & TRAILWOOD LANE	SB8	1	-	1	-
CTH "XX" & TRAILWOOD LANE	SB9	-	1	-	1
CTH "XX" & TRAILWOOD LANE	SB10	1	-	1	-
TOTAL		6	4	6	4

EARTHWORK SCHEDULE

(1) 20501 COMMON EXCAVATION (CY)	(2) FOR INFO ONLY REMOVING PAVEMENT (CY)	(3) FOR INFO ONLY TOPSOIL (CY)	(4) *FOR INFO ONLY FILL (CY)	*(5) FOR INFO ONLY EXCESS (CY)	*(4=1-2-3-4)
CTH "XX" TRAILWOOD LANE	4,592.67	1,050 (5")	9,135	441.00	6,544.00
	14,574.70	109 (3")	1,064	-	955.00
TOTAL	19,167.37	1,159	10,199	441	7,499

* INCLUDES SHRINKAGE

PULL BOXES SCHEDULE, TRAFFIC SIGNALS

LOCATION	PULL BOX NUMBER	65303	65306
		STEEL 18" X 24" (EA)	STEEL 24" X 36" (EA)
CTH "XX" & TRAILWOOD LANE	PB1	-	1
CTH "XX" & TRAILWOOD LANE	PB2	-	1
CTH "XX" & TRAILWOOD LANE	PB3	-	1
CTH "XX" & TRAILWOOD LANE	PB4	1	-
CTH "XX" & TRAILWOOD LANE	PB5	-	1
CTH "XX" & TRAILWOOD LANE	PB6	-	1
CTH "XX" & TRAILWOOD LANE	PB7	-	1
CTH "XX" & TRAILWOOD LANE	PB8	1	-
CTH "XX" & TRAILWOOD LANE	PB9	1	-
TOTALS		3	6

MANHOLE TIE-INS

LOCATION	STATION	91006
		MANHOLE TIE-INS (EA)
CTH "XX"	1 + 40	1
TOTAL		1

REINFORCED CONCRETE APRON ENDWALL FOR CULVERT

LOCATION	STATION	52260	52261
		12" REINFORCED CONCRETE APRON ENDWALL (EA)	15" REINFORCED CONCRETE APRON ENDWALL (EA)
CTH "XX"	3 + 40	1	-
CTH "XX"	13 + 50	-	1
CTH "XX"	17 + 75	-	1
TOTAL		1	2

NONMETALLIC CONDUIT SCHEDULE, TRAFFIC SIGNALS

LOCATION	FROM	TO	65226	65229	65231
			1-INCH SCH. 80 (LF)	2-INCH SCH. 80 (LF)	3-INCH SCH. 80 (LF)
CTH "XX" & TRAILWOOD LANE	CB1	PB1	-	-	20
CTH "XX" & TRAILWOOD LANE	PB1	SB1	-	14	-
CTH "XX" & TRAILWOOD LANE	PB1	SB2	-	26	-
CTH "XX" & TRAILWOOD LANE	PB1	PB7	-	-	70
CTH "XX" & TRAILWOOD LANE	PB1	LD41	34	-	-
CTH "XX" & TRAILWOOD LANE	PB1	PB2	-	-	58
CTH "XX" & TRAILWOOD LANE	PB2	SB3	-	9	-
CTH "XX" & TRAILWOOD LANE	PB2	LD51	13	-	-
CTH "XX" & TRAILWOOD LANE	PB2	PB3	-	-	68
CTH "XX" & TRAILWOOD LANE	PB3	SB4	-	27	-
CTH "XX" & TRAILWOOD LANE	PB3	SB5	-	16	-
CTH "XX" & TRAILWOOD LANE	PB3	PB5	-	-	78
CTH "XX" & TRAILWOOD LANE	PB3	PB4	-	252	-
CTH "XX" & TRAILWOOD LANE	PB4	LD61	20	-	-
CTH "XX" & TRAILWOOD LANE	PB4	LD62	8	-	-
CTH "XX" & TRAILWOOD LANE	PB5	SB6	-	10	-
CTH "XX" & TRAILWOOD LANE	PB5	LD83	20	-	-
CTH "XX" & TRAILWOOD LANE	PB5	LD84	8	-	-
CTH "XX" & TRAILWOOD LANE	PB5	SB7	-	20	-
CTH "XX" & TRAILWOOD LANE	PB5	PB6	-	-	58
CTH "XX" & TRAILWOOD LANE	PB6	SB8	-	12	-
CTH "XX" & TRAILWOOD LANE	PB6	PB7	-	-	66
CTH "XX" & TRAILWOOD LANE	PB7	SB9	-	23	-
CTH "XX" & TRAILWOOD LANE	PB7	PB8	-	196	-
CTH "XX" & TRAILWOOD LANE	PB7	SB10	-	24	-
CTH "XX" & TRAILWOOD LANE	PB8	LD21	28	-	-
CTH "XX" & TRAILWOOD LANE	PB8	LD22	10	-	-
CTH "XX" & TRAILWOOD LANE	PB5	PB9	-	165	-
CTH "XX" & TRAILWOOD LANE	PB9	LD81	16	-	-
CTH "XX" & TRAILWOOD LANE	PB9	LD82	7	-	-
TOTALS			164	794	418

TRAFFIC SIGNAL AND STREET LIGHT SCHEDULE

LOCATION	SIGNAL NUMBER	65703	65704	65732	65733	65802	65803	65826	65828	65829	65903	65935
		POLES TYPE 3 (EA)	POLES TYPE 4 (EA)	TRAFFIC SIGNAL STANDARDS 13-FOOT (EA)	TRAFFIC SIGNAL STANDARDS 15-FOOT (EA)	TROMBONE ARM 15-FOOT (EA)	TROMBONE ARM 20-FOOT (EA)	TRAFFIC SIGNAL FACES 3-12" VERTICAL (EA)	TRAFFIC SIGNAL FACES 5-12" HORIZONTAL (EA)	TRAFFIC SIGNAL FACES 3-12" HORIZONTAL (EA)	LUMINAIRES UTILITY, 150 WATTS (EA)	LUMINAIRES ARMS 10-FOOT (EA)
CTH "XX" & TRAILWOOD LANE	SB1	-	-	1	-	-	-	2	-	-	-	-
CTH "XX" & TRAILWOOD LANE	SB2	1	-	-	-	-	1	-	-	1	1	1
CTH "XX" & TRAILWOOD LANE	SB3	-	-	-	1	-	-	-	2	-	-	-
CTH "XX" & TRAILWOOD LANE	SB4	-	1	-	-	-	-	1	-	-	1	1
CTH "XX" & TRAILWOOD LANE	SB5	-	-	1	-	-	-	1	-	-	-	-
CTH "XX" & TRAILWOOD LANE	SB6	-	-	1	-	-	-	2	-	-	-	-
CTH "XX" & TRAILWOOD LANE	SB7	1	-	-	-	1	-	-	-	1	1	1
CTH "XX" & TRAILWOOD LANE	SB8	-	-	-	1	-	-	-	2	-	-	-
CTH "XX" & TRAILWOOD LANE	SB9	-	1	-	-	-	-	1	-	-	1	1
CTH "XX" & TRAILWOOD LANE	SB10	-	-	1	-	-	-	1	-	-	-	-
TOTALS		2	2	4	2	1	1	8	4	2	4	4

TRAFFIC SIGNAL CABLE AND LIGHTING WIRING

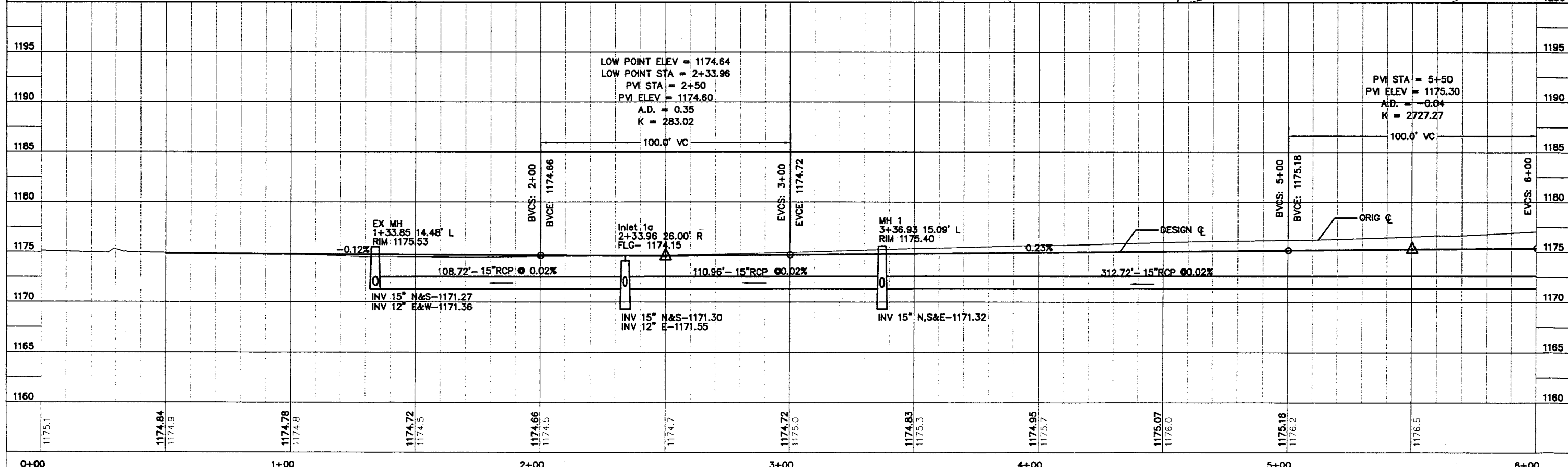
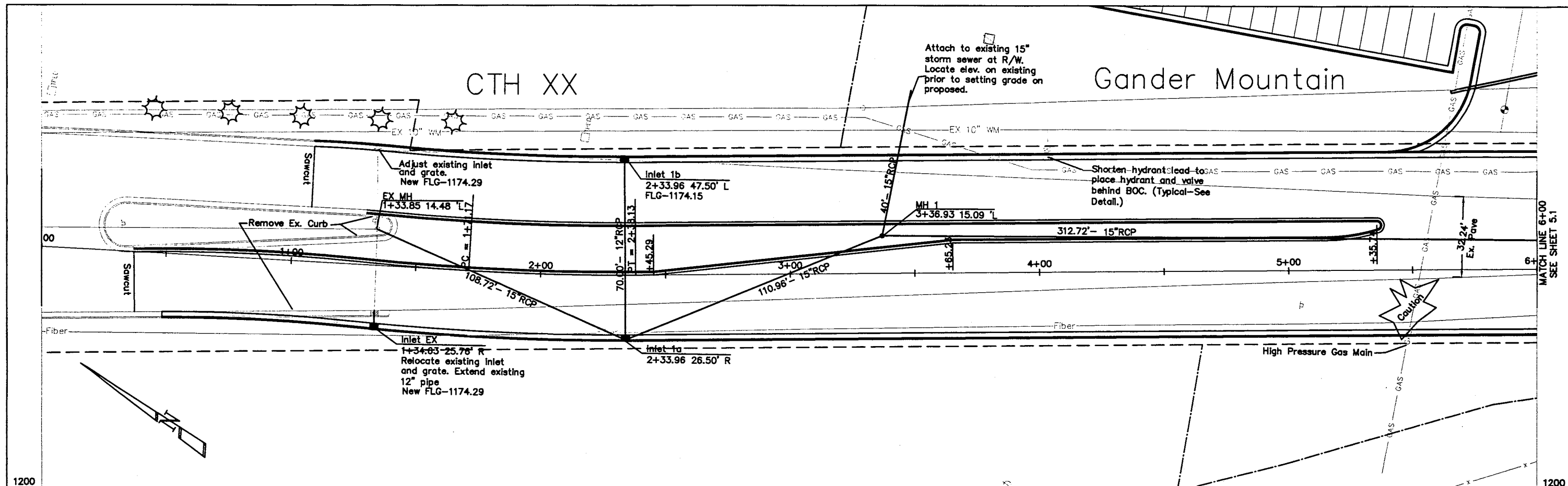
ROUTE	HEAD NUMBER	65524 TRAFFIC SIGNAL CABLE 5 CONDUCTOR, NO. 14 (L.F.)	65526 TRAFFIC SIGNAL CABLE 7 CONDUCTOR, NO. 14 (L.F.)	65530 TRAFFIC SIGNAL CABLE 12 CONDUCTOR, NO. 14 (L.F.)	65536 TRAFFIC SIGNAL CABLE 21 CONDUCTOR, NO. 12 (L.F.)	65545 TYPE UF CABLE 2 CONDUCTOR, NO.12 GROUNDED (L.F.)	65566 ELECTRICAL WIRING LIGHTING, NO. 12 (L.F.)	
CB1	SB2	2B	37	-	52	52	40	
SB2	SB1	4A & 8C	22	-	54	-	-	
CB1	SB3	1A & 5B	-	22	-	-	-	
CB1	SB4	6A	11	-	180	194	40	
SB4	SB5	4B	11	-	58	-	-	
CB1	SB7	6B	32	-	246	183	40	
SB7	SB6	4C & 8A	22	-	45	-	-	
CB1	SB9	2A	11	-	120	120	40	
SB9	SB10	8B	11	-	61	-	-	
CB1	SB8	1B & 5A	-	22	174	-	-	
TOTAL			157	44	268	816	549	160

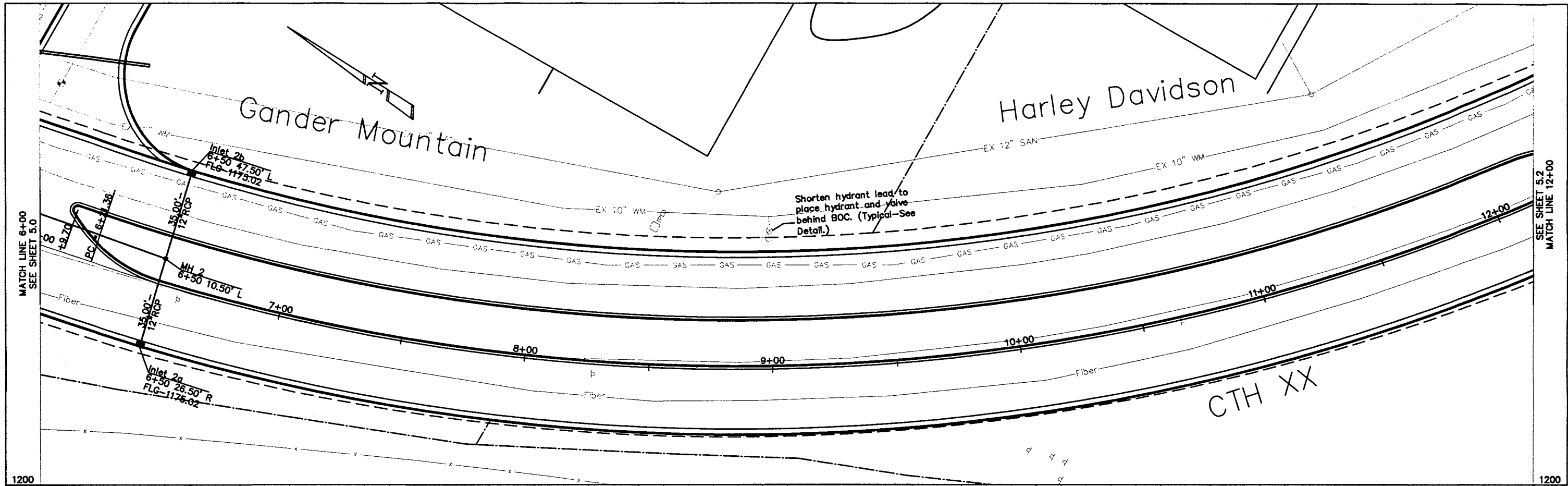
ELECTRICAL WIRING

ROUTE	65557 ELECTRICAL WIRE TRAFFIC SIGNALS, NO. 10 (L.F.)	
CB1	PB1	12
PB1	PB2	58
PB2	PB3	69
PB3	PB5	73
CB1	PB1	12
PB1	PB7	70
PB7	PB6	66
PB6	PB5	58
TOTAL		418

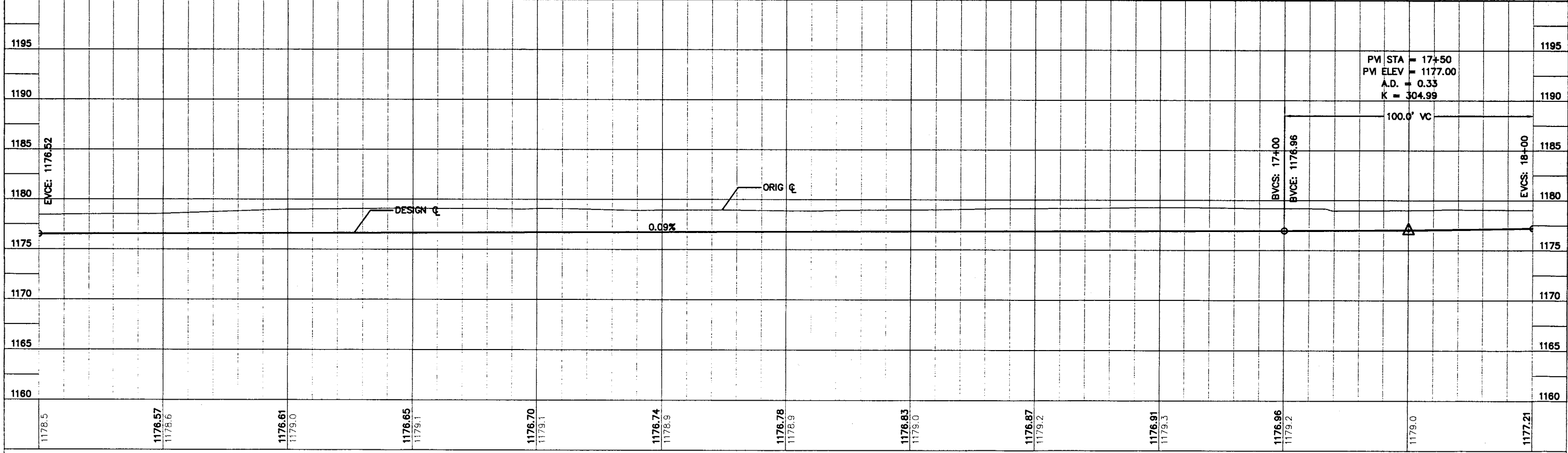
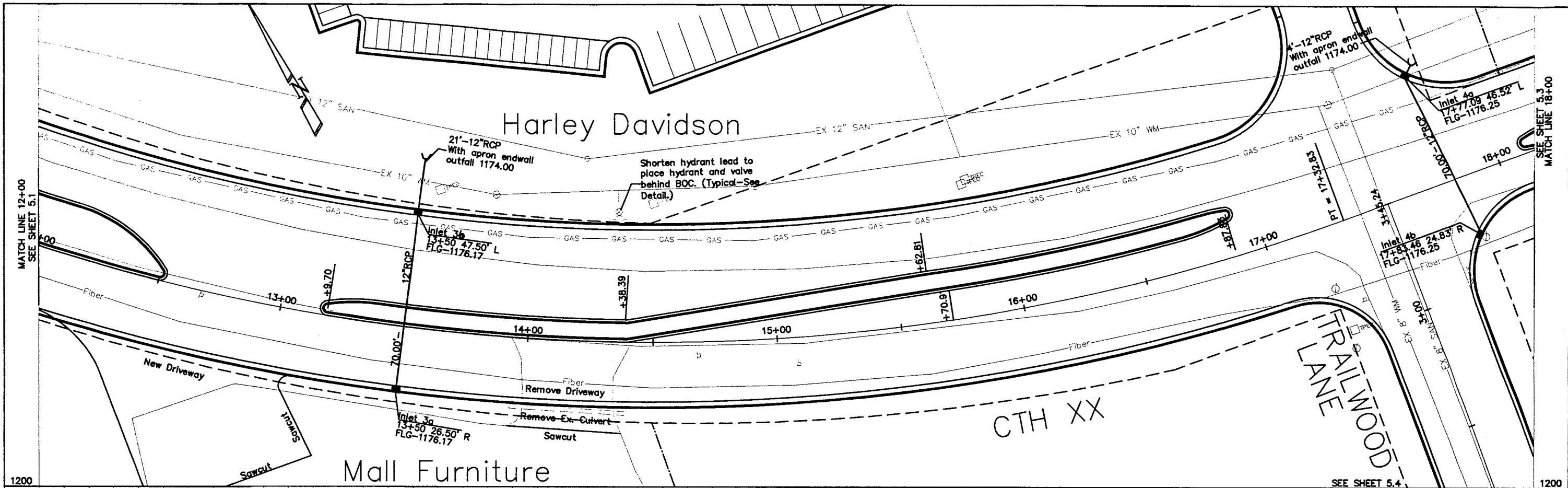
ELECTRICAL WIRING

ROUTE	65557 ELECTRICAL WIRE TRAFFIC SIGNALS, NO. 10 (L.F.)	
PB1	SB1	28
PB1	SB2	40
PB2	SB3	23
PB3	SB4	42
PB3	SB5	30
PB5	SB6	24
PB5	SB7	34
PB6	SB8	26
PB7	SB9	37
PB7	SB10	37
TOTAL		321



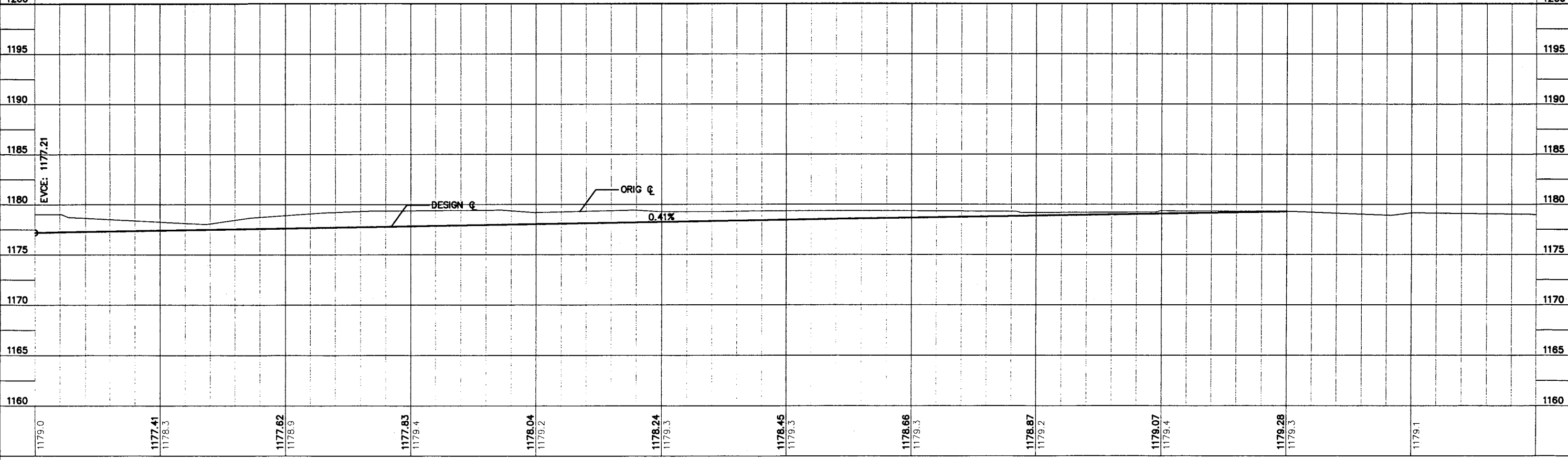
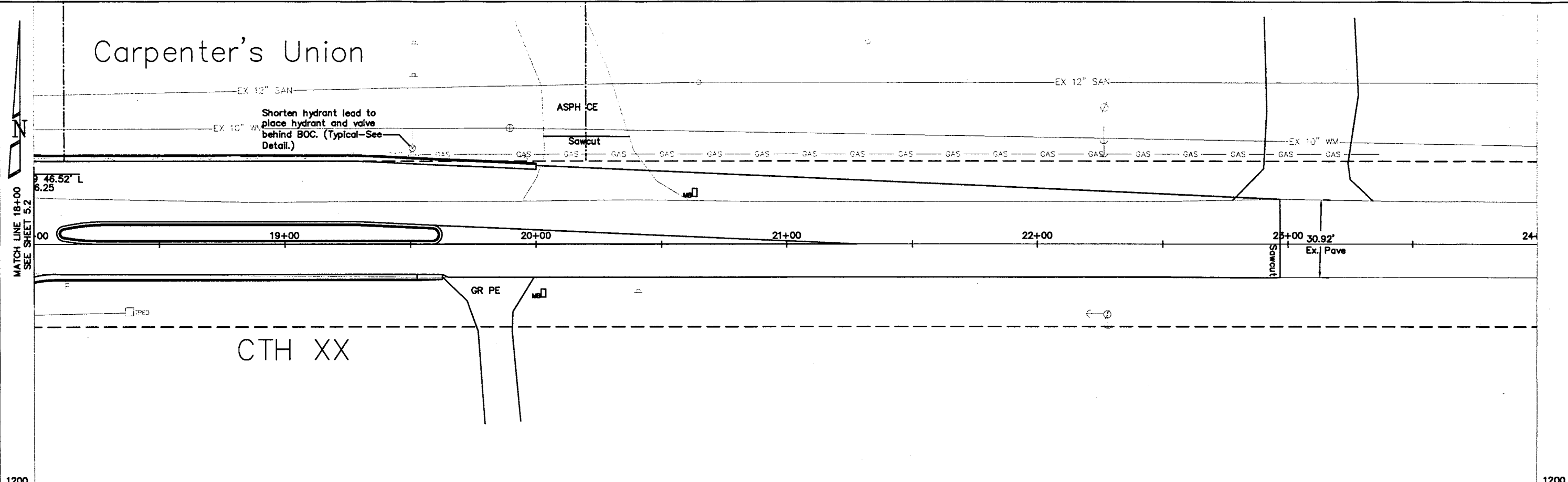


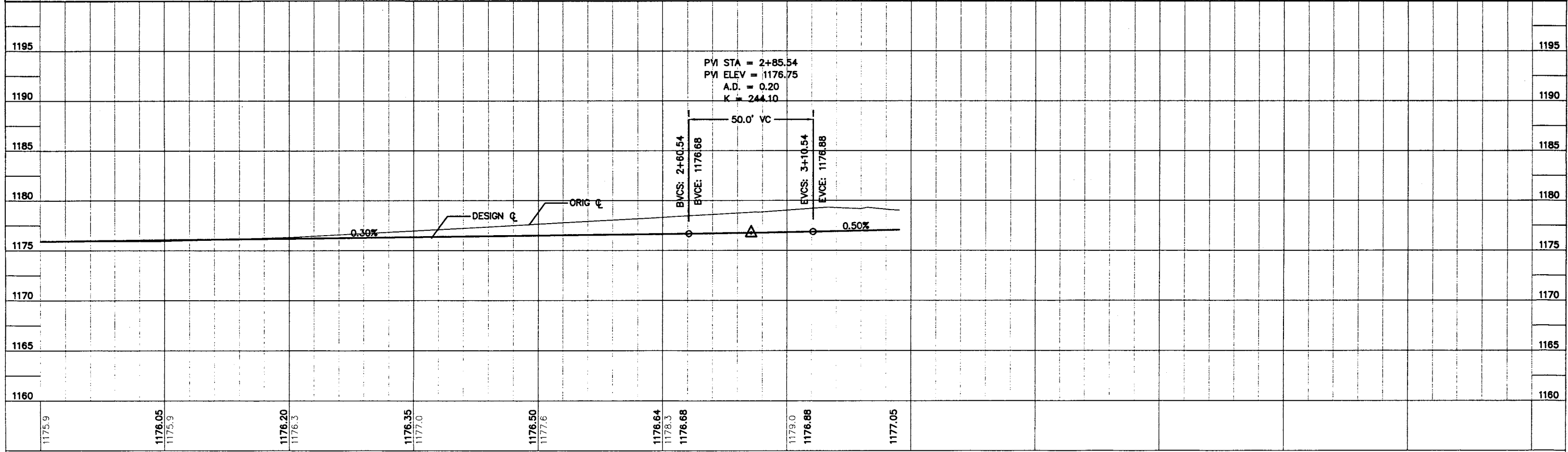
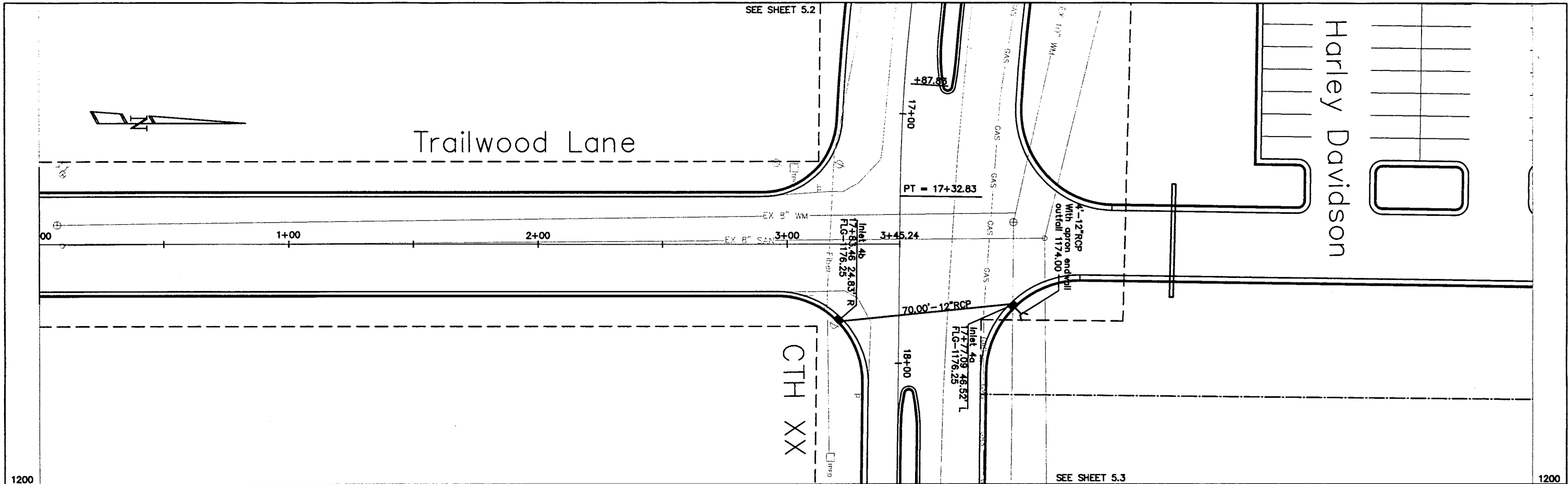
6+00	7+00	8+00	9+00	10+00	11+00	12+00
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12+00	13+00	14+00	15+00	16+00	17+00	18+00
1178.5	1176.57 1178.6	1176.61 1179.0	1176.65 1179.1	1176.70 1179.1	1176.74 1178.9	1176.78 1178.9
				1176.83 1179.0	1176.87 1179.2	1176.91 1179.3
					1176.96 1179.2	1179.0
						1177.21

Carpenter's Union





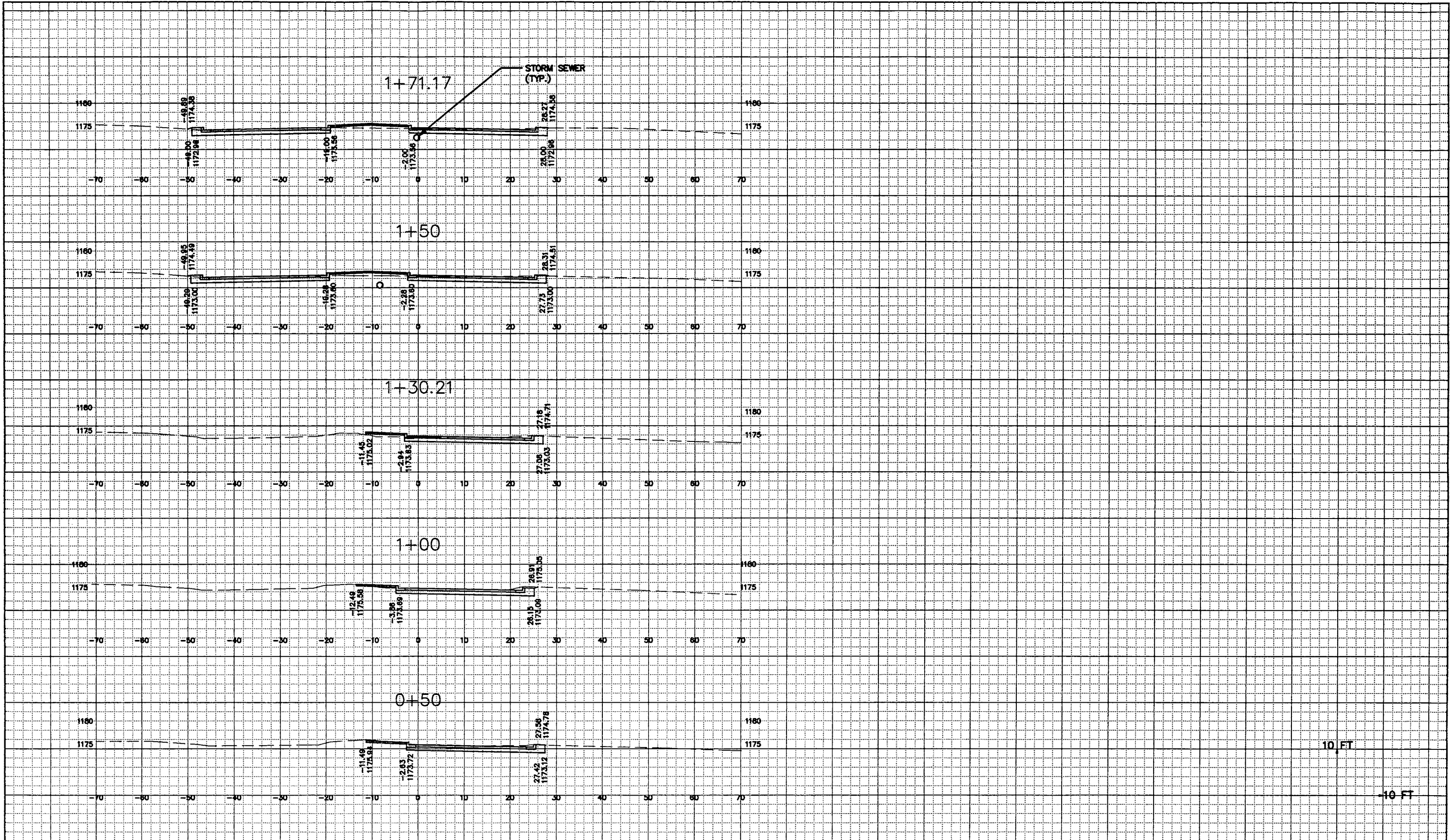
0+00	1+00	2+00	3+00	3+45
1175.9	1176.05 1175.9	1176.20 1176.3	1176.35 1177.0	1176.50 1177.6
			1176.64 1178.3 1176.68	1179.0 1176.88
				1177.05

CTH XX

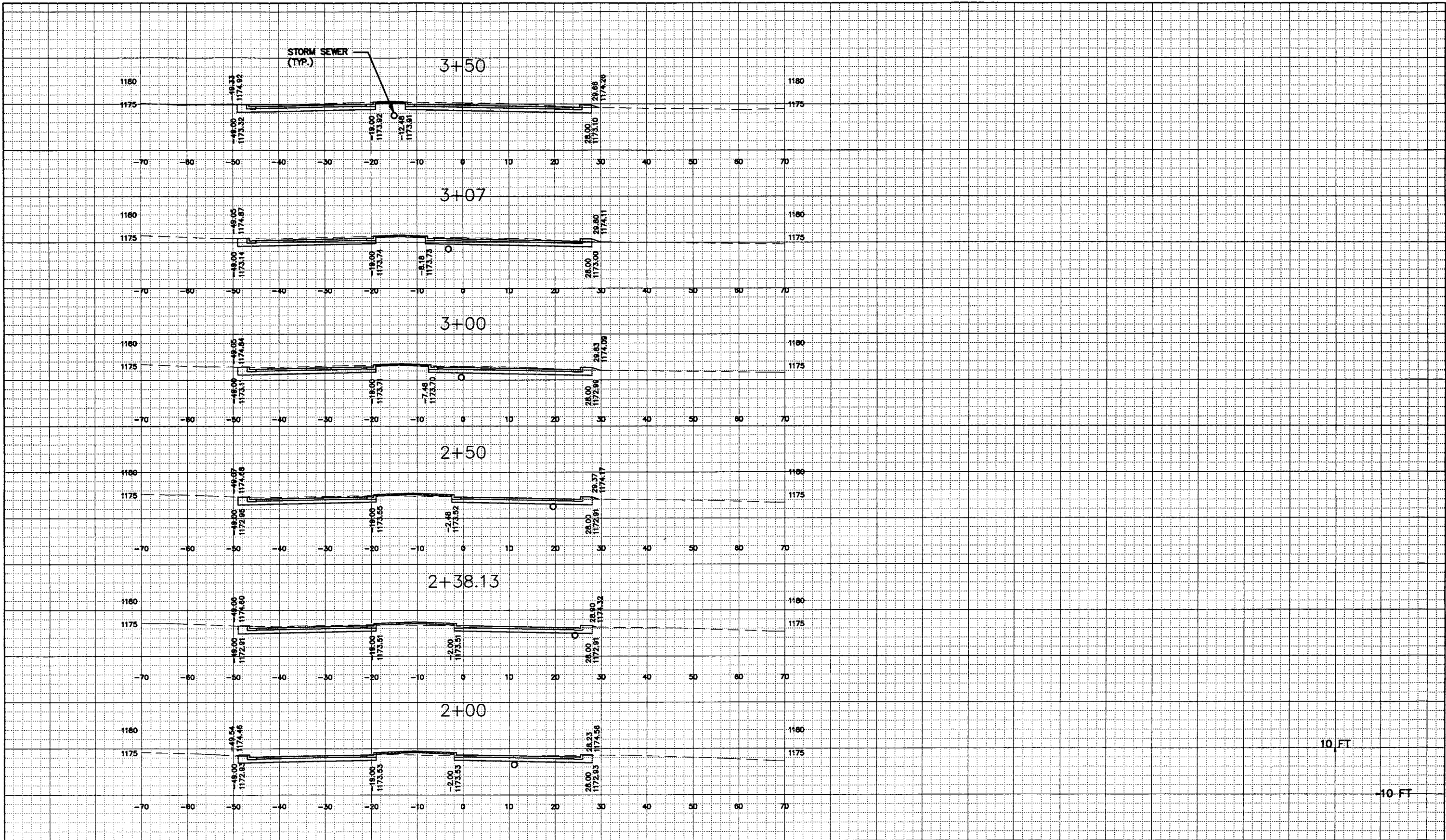
STATION	AREAS		VOLUMES		CUMULATIVE VOLUMES	
	Square Feet		Cubic Yards		Cubic Yards	
	CUT	FILL	CUT	FILL	CUT	FILL
0+50	43.76	0.00	75.93	0.95	75.93	0.95
1+00	38.24	1.02	41.30	2.78	117.23	3.73
1+30.21	35.59	3.95	1.55	0.12	118.78	3.85
1+31	70.11	4.24	48.53	4.35	167.31	8.20
1+50	67.81	8.12	53.52	6.26	220.83	14.47
1+71.17	68.74	7.86	76.49	7.35	297.32	21.82
2+00	75.95	6.05	109.48	6.99	406.80	28.80
2+38.13	80.85	3.94	35.70	1.59	442.50	30.39
2+50	81.62	3.29	163.96	3.62	606.46	34.01
3+00	95.46	0.62	25.00	0.15	631.46	34.16
3+07	97.39	0.53	165.42	0.79	796.88	34.95
3+50	110.35	0.46	208.10	0.97	1004.99	35.91
4+00	114.40	0.58	211.57	1.63	1216.55	37.54
4+50	114.09	1.18	204.43	5.71	1420.98	43.26
5+00	106.69	4.99	134.36	18.63	1555.35	61.89
5+38.71	80.74	21.00	5.16	0.57	1560.51	62.45
5+40	135.25	2.71	50.26	1.06	1610.77	63.52
5+50	136.18	3.02	260.59	4.26	1871.36	67.77
6+00	145.26	1.58	36.77	0.35	1908.13	68.12
6+06.73	149.78	1.25	70.94	1.84	1979.07	69.97
6+21.36	112.08	5.55	113.27	5.51	2092.34	75.47
6+50	103.33	5.27	182.30	8.42	2274.64	83.89
7+00	95.48	4.04	171.22	9.20	2445.85	93.09
7+50	91.48	6.06	170.97	9.13	2616.82	102.22
8+00	95.21	4.00	171.91	8.46	2788.73	110.69
8+50	92.41	5.30	158.68	14.20	2947.42	124.89
9+00	80.84	10.42	146.58	17.06	3093.99	141.95
9+50	79.51	8.52	147.92	16.92	3241.92	158.86
10+00	82.75	10.07	155.99	20.92	3397.91	179.78
10+50	88.59	12.77	168.46	27.63	3566.37	207.41
11+00	96.23	17.28	172.50	32.91	3738.86	240.32
11+50	92.87	18.34	166.90	27.26	3905.76	267.57
12+00	90.29	11.16	200.97	14.75	4106.73	282.32
12+50	130.26	5.04	12.28	0.62	4119.01	282.95
12+52.94	98.55	6.83	0.26	0.01	4119.27	282.96
12+53	140.02	2.77	254.52	3.83	4373.79	286.78
13+00	156.81	1.93	86.79	0.87	4460.58	287.65
13+15	160.05	1.41	5.04	0.09	4465.61	287.74
13+16	115.37	3.58	165.89	2.92	4631.50	290.66
13+50	151.33	1.22	331.62	1.95	4963.12	292.61
14+00	209.81	0.97	332.04	5.82	5295.16	298.42
14+50	151.22	5.43	260.36	8.00	5555.52	306.42
15+00	132.64	3.21	244.28	9.02	5799.80	315.44
15+50	132.63	6.81	256.65	12.94	6056.46	328.39
16+00	145.20	7.58	272.82	14.00	6329.27	342.39
16+50	150.10	7.83	214.44	11.06	6543.72	353.44
16+90.91	134.50	6.72	0.51	0.02	6544.23	353.46
16+91	176.42	5.85	58.25	2.11	6602.48	355.57
17+00	177.24	6.41	236.91	4.30	6839.39	359.87
17+32.83	215.63	0.78	0.02	0.00	6839.41	359.87
17+32.83	0.00	0.00	126.44	0.00	6965.84	359.87
17+50	397.74	0.00	499.72	0.86	7465.56	360.73
18+00	141.96	0.93	46.64	0.24	7512.20	360.98
18+09	137.88	0.52	0.61	0.01	7512.81	360.98
18+08.14	98.46	1.63	144.10	1.38	7656.92	362.36
18+50	91.98	0.18	190.07	0.17	7846.98	362.53
19+00	113.29	0.00	220.12	0.00	8067.10	362.53
19+50	124.43	0.00	192.39	0.00	8259.49	362.53
19+98	92.00	0.00	7.96	0.00	8267.45	362.53
20+00	123.01	0.00	218.07	0.00	8485.52	362.53
20+50	112.51	0.00	186.01	0.83	8671.53	363.36
21+00	88.39	0.89	152.85	2.84	8824.38	366.19
21+50	76.70	2.17	119.96	2.04	8944.34	368.23
22+00	52.86	0.03	102.27	0.03	9046.61	368.26
22+50	57.59	0.00	88.10	0.00	9134.72	368.26
23+00	37.56	0.00	0.00	0.00	9134.72	368.26

TRAILWOOD LANE

STATION	AREAS		VOLUMES		CUMULATIVE VOLUMES	
	Square Feet		Cubic Yards		Cubic Yards	
	CUT	FILL	CUT	FILL	CUT	FILL
0+00	57.87	0.17	104.03	0.25	104.03	0.25
0+50	54.49	0.10	111.10	0.09	215.13	0.34
1+00	65.50	0.00	142.34	0.00	357.47	0.34
1+50	88.22	0.00	187.40	0.00	544.87	0.34
2+00	114.17	0.00	234.55	0.00	779.42	0.34
2+50	139.15	0.00	197.58	0.00	977.00	0.34
2+85.54	161.06	0.00	87.57	0.00	1064.57	0.34
3+00	165.96	0.00	0.00	0.00	1064.57	0.34

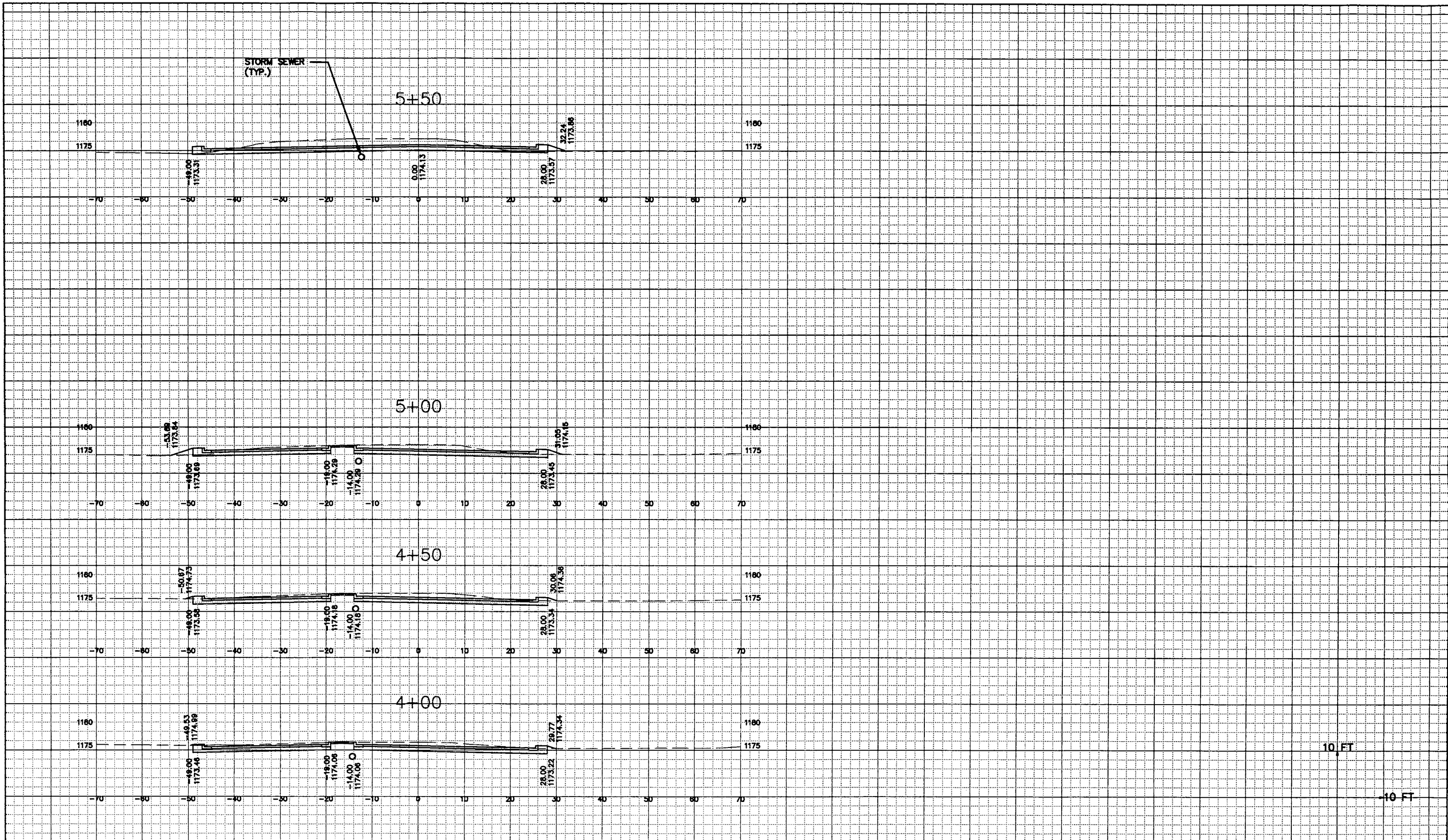


10 FT
-10 FT

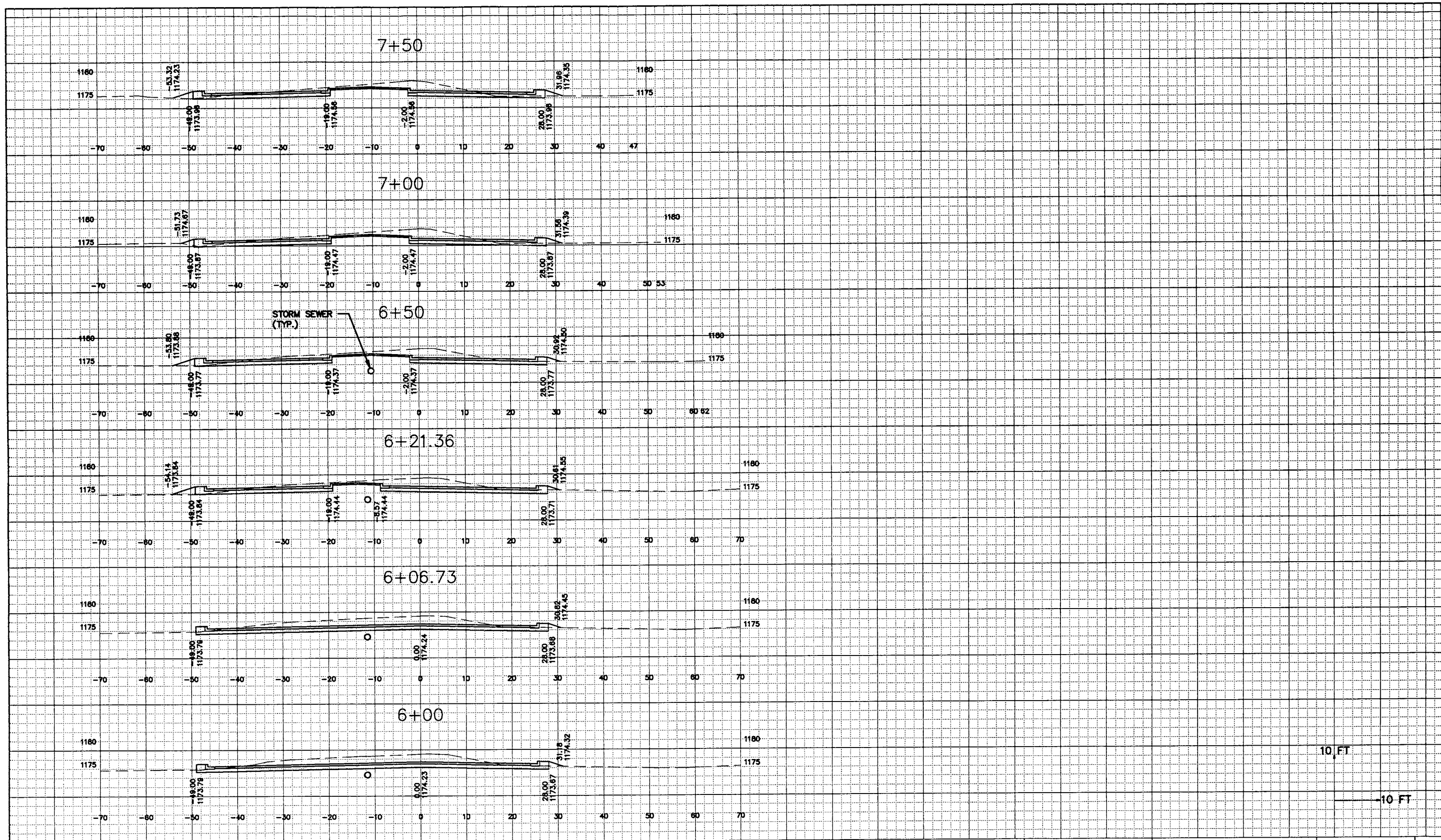


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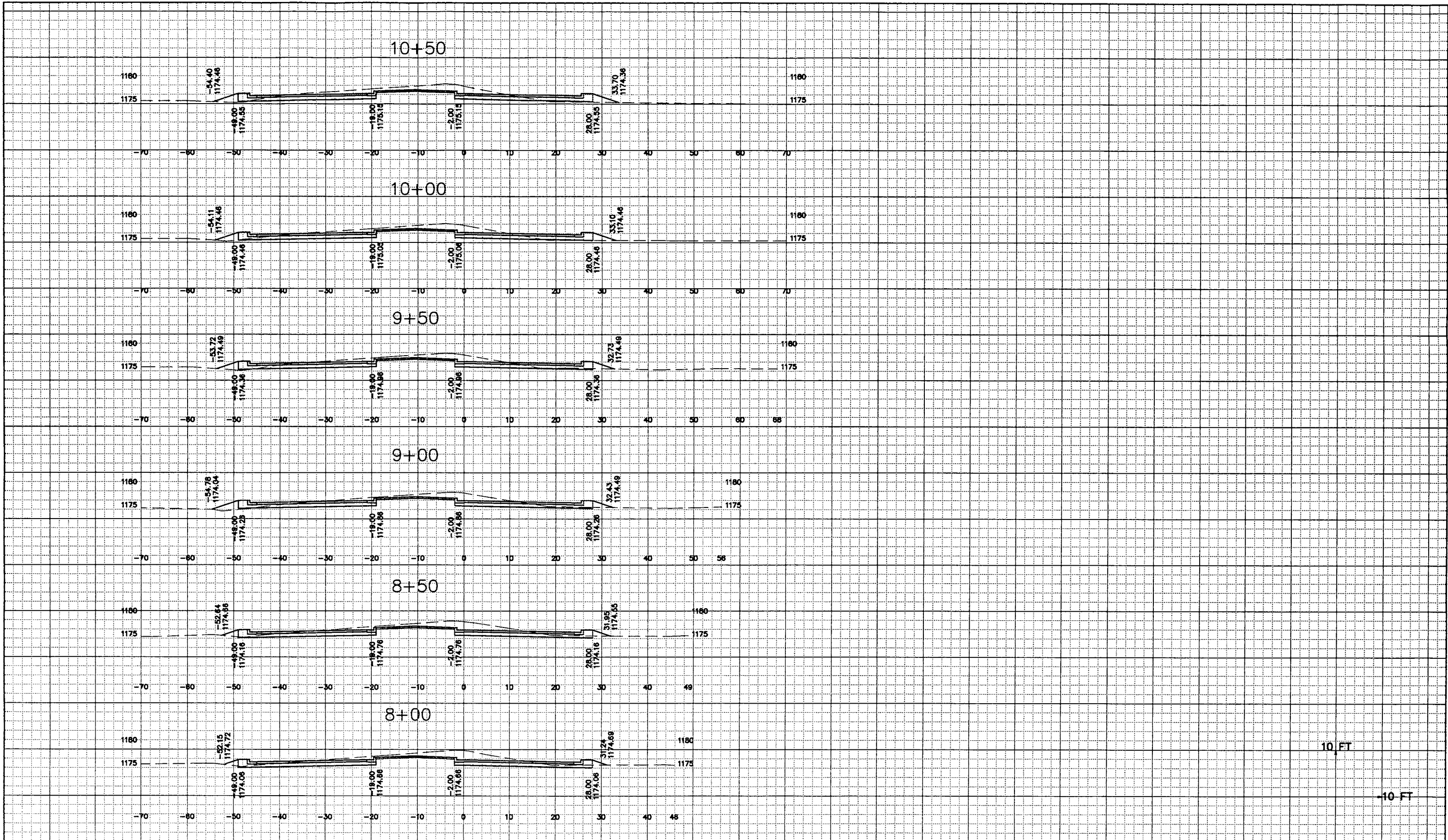
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10 FT
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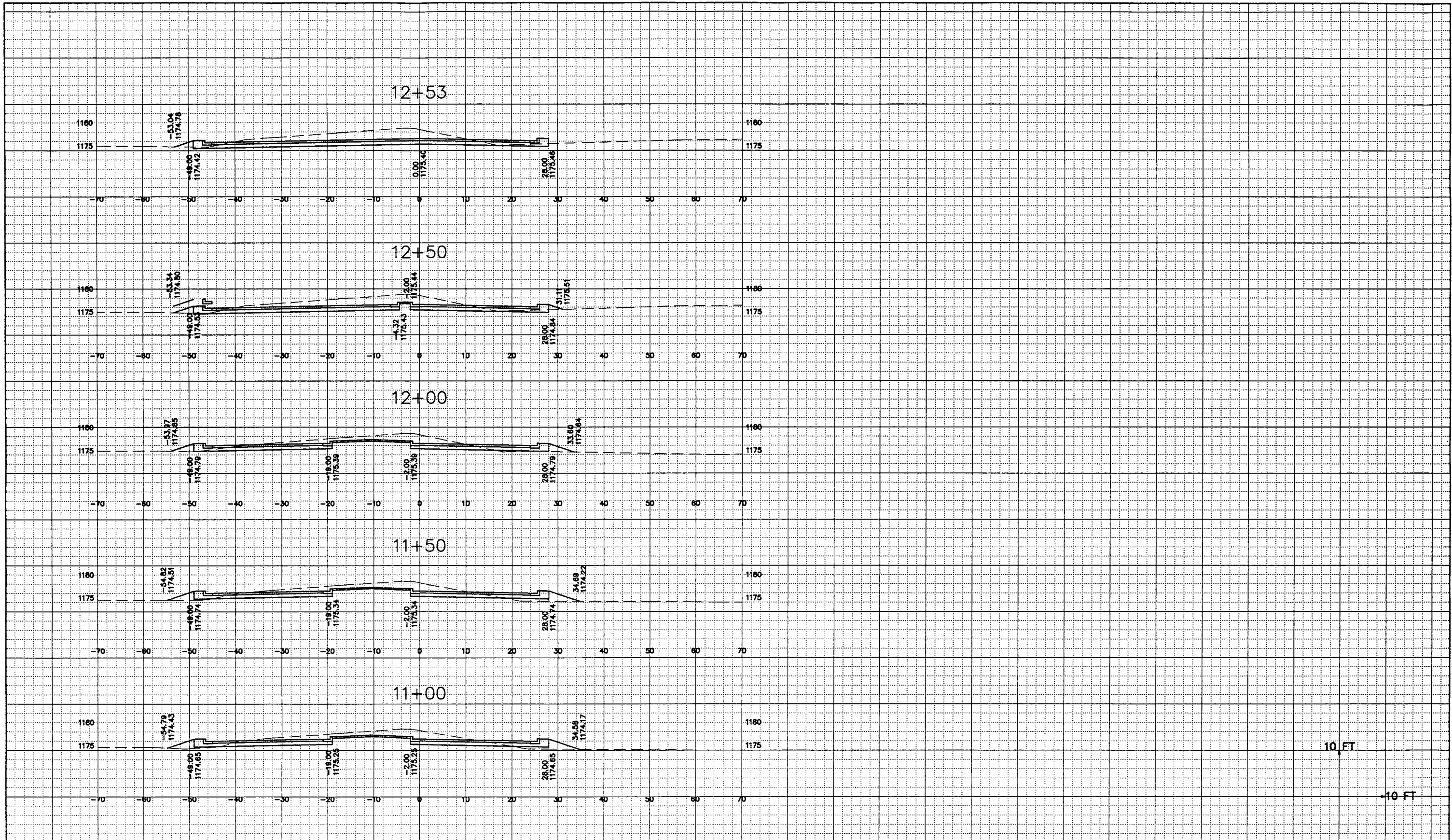
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10 FT



10 FT

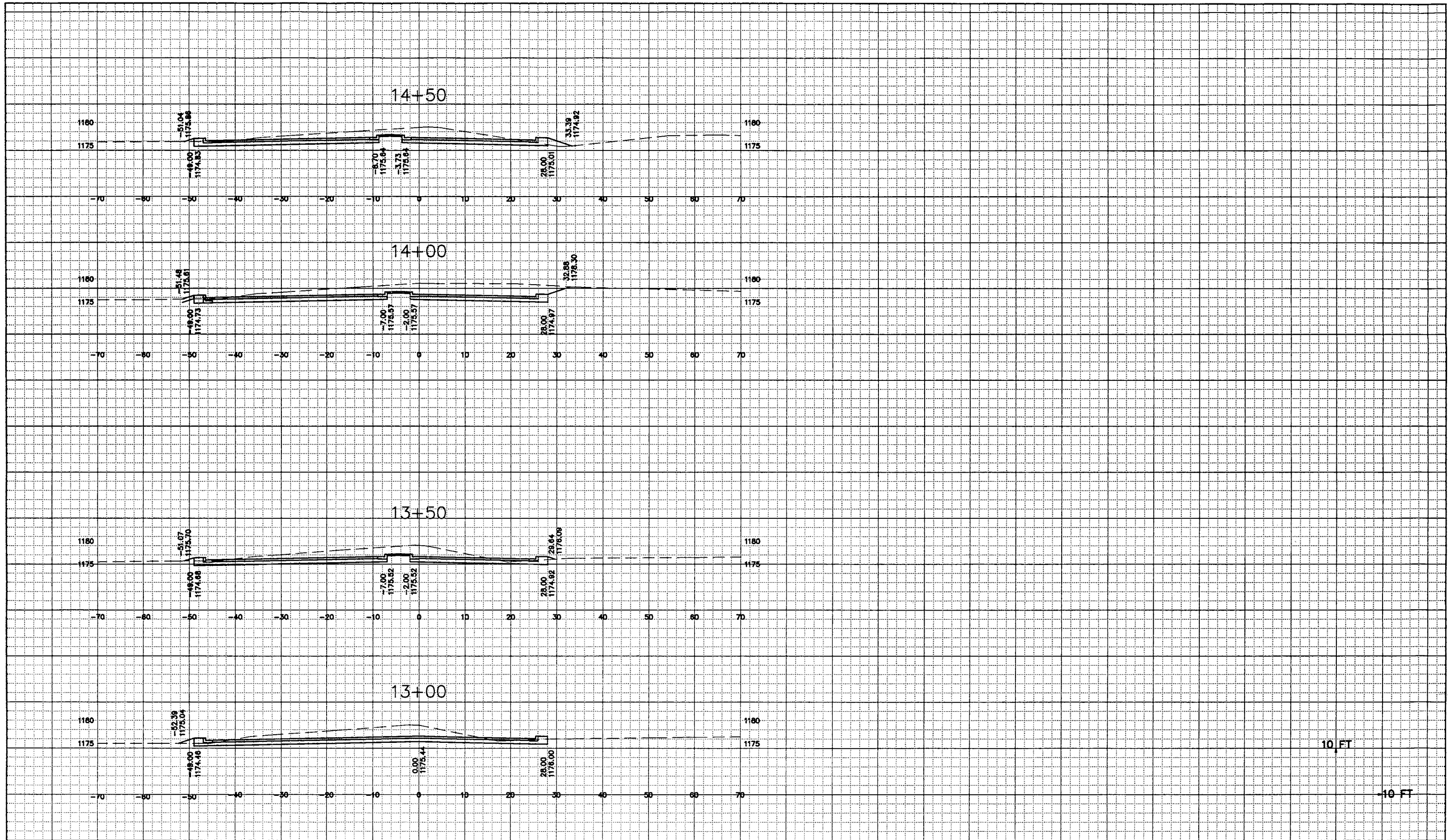
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ROADWAY CROSS-SECTIONS	SCALE (H)1"=10' (V)1"=10'	VILLAGE OF ROTHSCHILD	MARATHON COUNTY	CTH XX	PROJECT 2003492	SHEET NO. 9.4	REVISED
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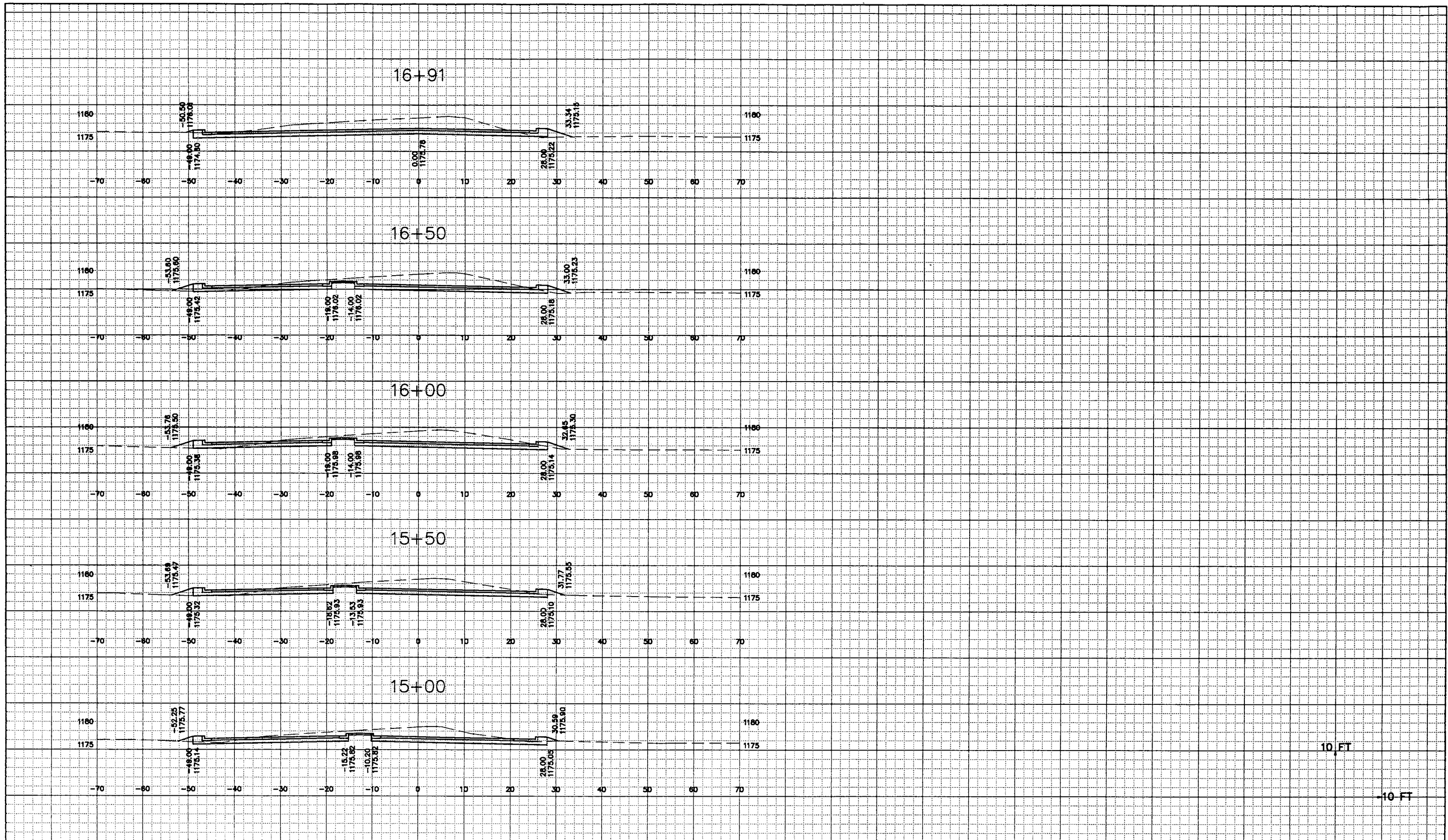


10 FT

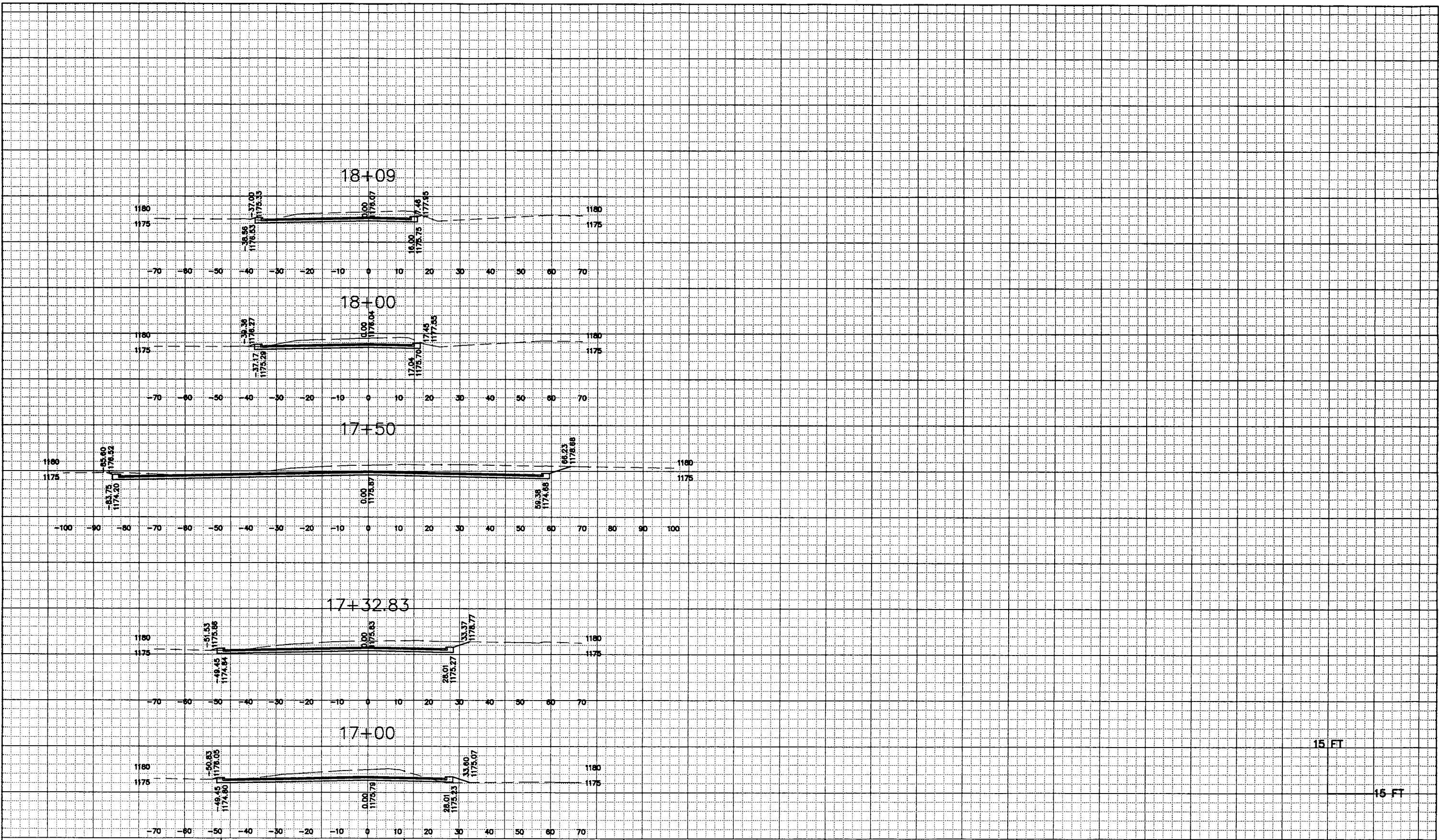
-10 FT



10 FT
10 FT



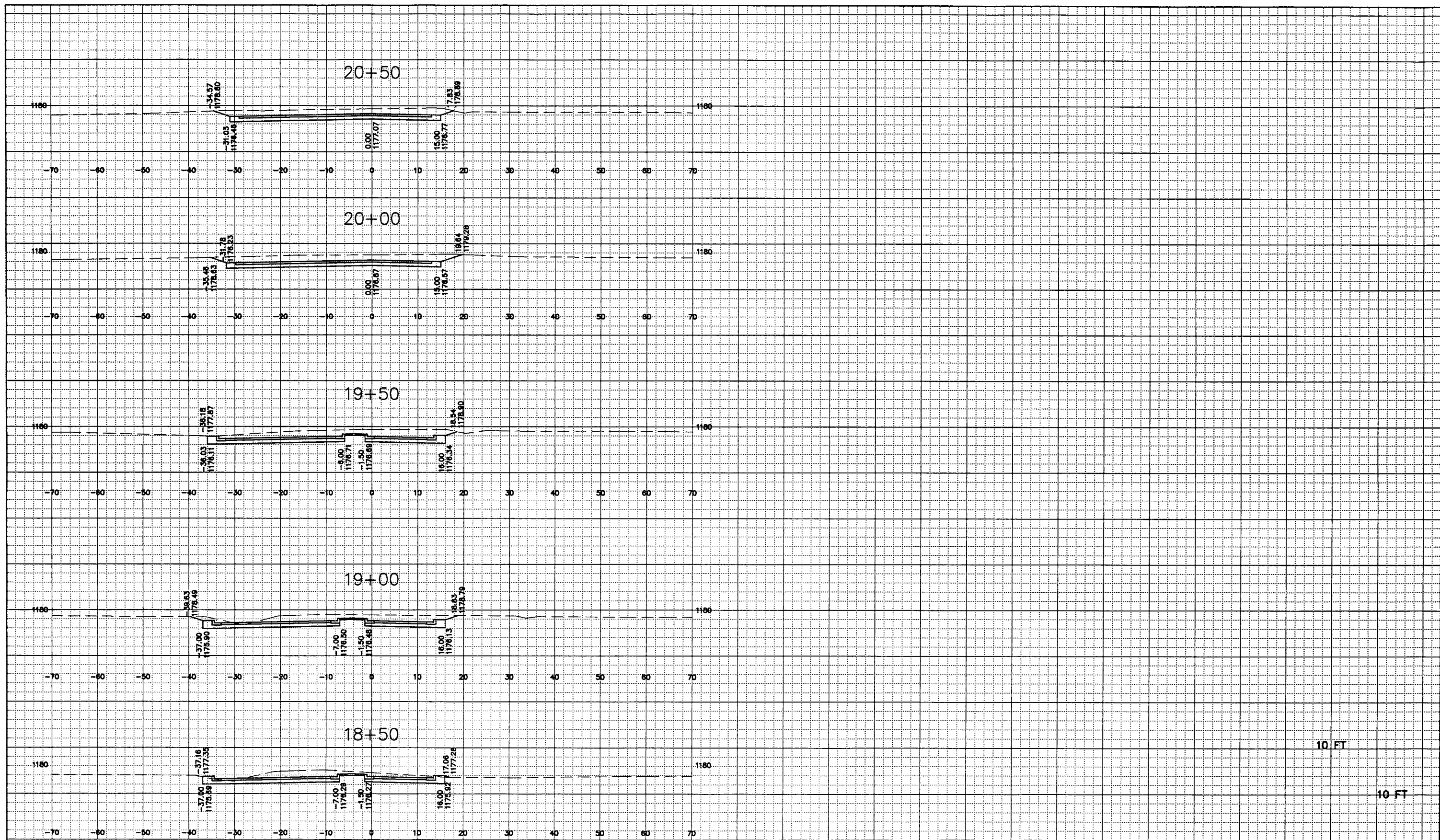
10 FT
-10 FT



15 FT

15 FT

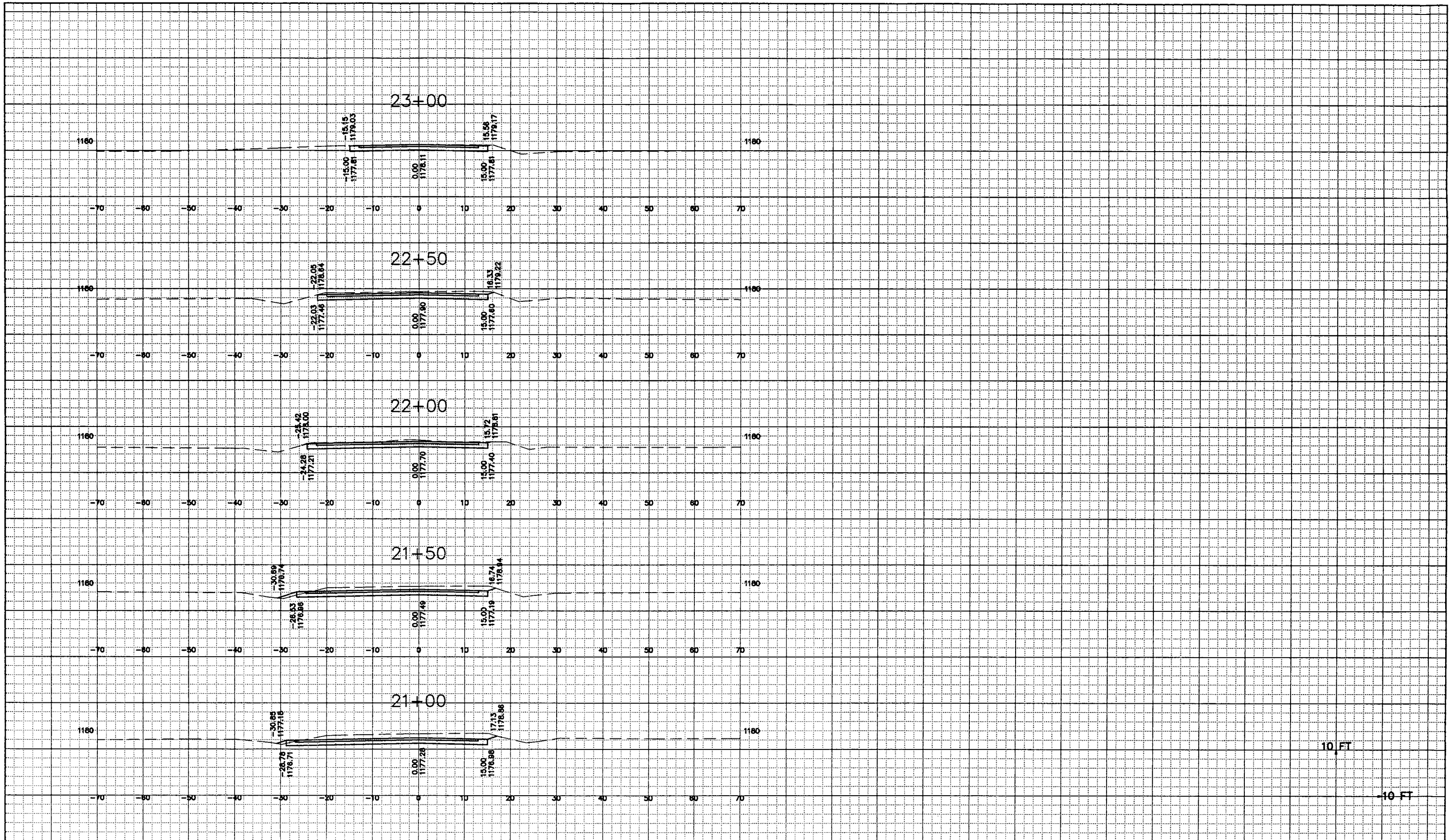
ROADWAY CROSS-SECTIONS	SCALE (H)1"=10' (V)1"=10'	VILLAGE OF ROTHSCHILD	MARATHON COUNTY	CTH XX	PROJECT 2003492	SHEET NO. 9.8	REVISED
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10 FT

10 FT

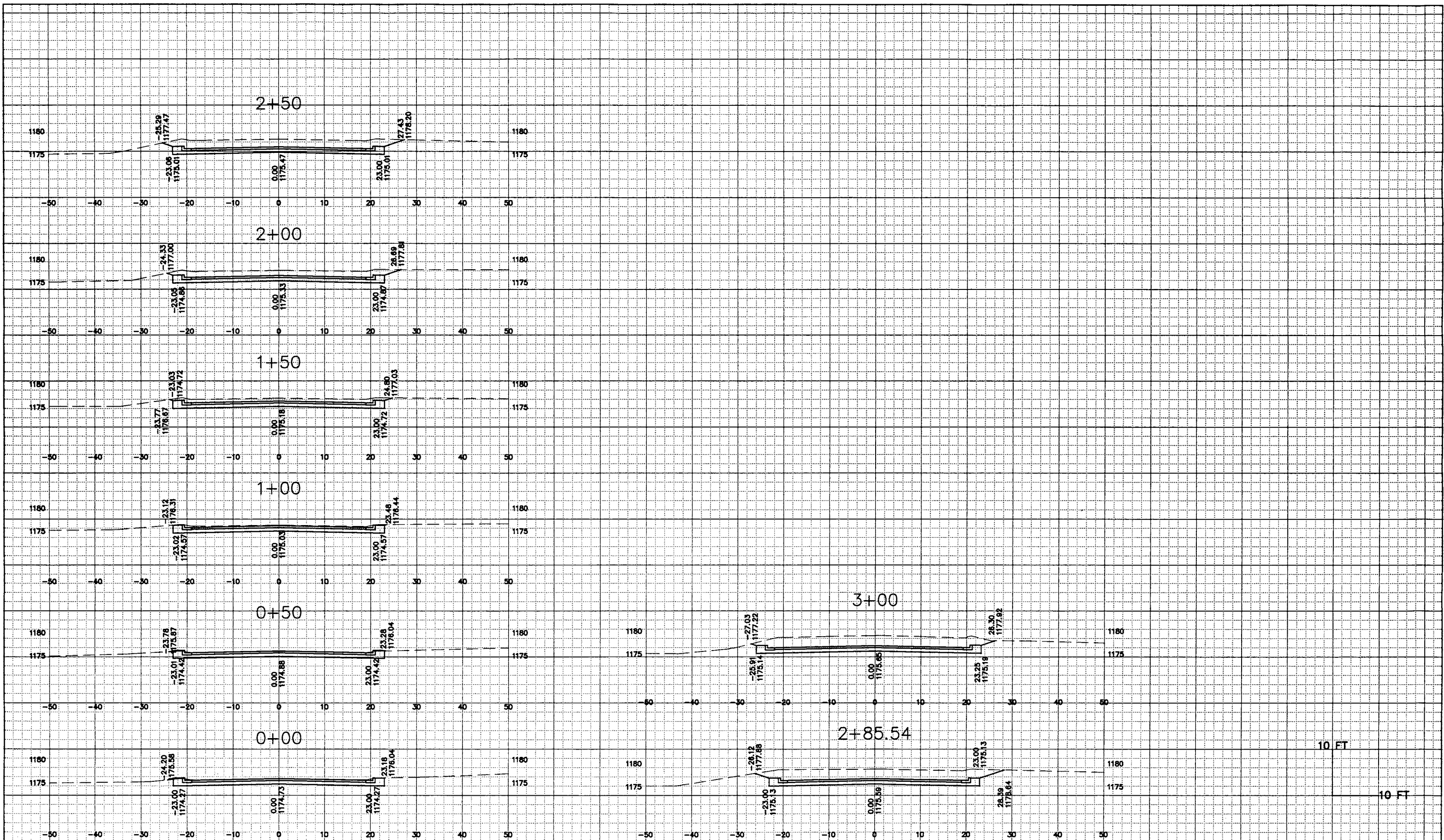
ROADWAY CROSS-SECTIONS	SCALE (H)1"=10' (V)1"=10'	VILLAGE OF ROTHSCHILD	MARATHON COUNTY	CTH XX	PROJECT 2003492	SHEET NO. 9.9	REVISED
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10 FT

-10 FT

ROADWAY CROSS-SECTIONS	SCALE (H)1"=10' (V)1"=10'	VILLAGE OF ROTHSCHILD	MARATHON COUNTY	CTH XX	PROJECT 2003492	SHEET NO. 9.10	REVISED
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10 FT

10 FT

ROADWAY CROSS-SECTIONS

SCALE (H)1"=10' (V)1"=10'

VILLAGE OF ROTHSCHILD

MARATHON COUNTY

Trillwood Lane

PROJECT 2003492

SHEET NO. 9.11

REVISED