

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 1

1. CONTRACTOR: Chasco Constructors

2. Change Order Work Limits: Sta. 207+34 to Sta. 323+50

3. Type of Change(on federal-aid non-exempt projects): Minor (Major/Minor)

4. Reasons: 2G, 3F (3 Max. - In order of importance - Primary first)

5. Describe the work being revised:

2G. Differing Site Conditions (unforeseeable). Unadjusted utility. This Change Order revises the location of the drainage pipe and curb inlets to clear existing utilities and changes the curb inlets from PCO to PCU. **3F. County Convenience.** Additional work desired by the County. This Change Order revises the pipe connection between the curb inlet and the pipe under the driveway and increases the quantity of pavement repair due to the current condition of the pavement.

6. Work to be performed in accordance with Items: see attached

7. New or revised plan sheet(s) are attached and numbered: 23, 55, 57, 58, 60-63, 65

8. New Special Provisions/Specifications to the contract are attached: ☐ Yes ☒ No

9. New Special Provisions to Item N/A No. N/A, Special Specification Item N/A are attached.

Each signatory hereby warrants that each has the authority to execute this Change Order (CO).

<i>The contractor must sign the Change Order and, by doing so, agrees to waive any and all claims for additional compensation due to any and all other expenses; additional changes for time, overhead and profit; or loss of compensation as a result of this change.</i> THE CONTRACTOR Date <u>2.9.22</u> By <u>[Signature]</u> Typed/Printed Name <u>CHARLES KING</u> Typed/Printed Title <u>VP</u>	The following information must be provided Time Ext. #: <u>N/A</u> Days added on this CO: <u>0</u> Amount added by this change order: <u>\$47,437.00</u>
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RECOMMENDED FOR EXECUTION:

[Signature] 2/9/2022
Project Manager Date

N/A
Design Engineer Date

[Signature] 2/9/2022
Program Manager Date

City of Austin Program Manager Date

Design Engineer's Seal:

see attached plan sheets

County Commissioner Precinct 1 Date
☐ APPROVED ☐ REQUEST APPROVAL

County Commissioner Precinct 2 Date
☐ APPROVED ☐ REQUEST APPROVAL

Valerie Covey Feb 16, 2022

County Commissioner Precinct 3 Date
☒ APPROVED ☐ REQUEST APPROVAL

County Commissioner Precinct 4 Date
☐ APPROVED ☐ REQUEST APPROVAL

County Judge Date
☐ APPROVED

Project # 21IFB15

TABLE B: Contract Items:

ORIGINAL + PREVIOUSLY REVISED				NEW	
ITEM	DESCRIPTION	UNIT	UNIT PRICE	ADD or (DEDUCT)	
				QUANTITY	ITEM COST
351-6002	FLEXIBLE PAVEMENT STRUCTURE REPAIR (6")	SY	\$58.00	1311.00	\$76,038.00
401-6001	FLOWABLE BACKFILL	CY	\$160.00	0.00	\$0.00
420-6071	CL C CONC (COLLAR)	EA	\$800.00	2.00	\$1,600.00
432-6003	RIPRAP (CONC)(GIN)	CY	\$650.00	27.00	\$17,550.00
464-6003	RC PIPE (CL III)(18")	LF	\$100.00	761.00	\$76,100.00
464-6005	RCPIPE (CL III)(24IN)	LF	\$120.00	180.00	\$21,600.00
465-6014	INLET (COMP)(PCO)(3FT)(LEFT)	EA	\$5,500.00	3.00	\$16,500.00
465-6030	INLET (COMP)(CLU)(3FT)(LEFT)	EA	\$7,600.00	0.00	\$0.00
466-6005	HEADWALL (CH-FW-D)(24IN)	EA	\$5,000.00	1.00	\$5,000.00
467-6395	SET (TY II)(24IN)(RCP)(6'1)(P)	EA	\$3,800.00	1.00	\$3,800.00
481-6002	PIPE(PVC)(SDR-35)(6IN)	LF	\$80.00	10.00	\$800.00
496-6007	REMOVE STR (PIPE)	LF	\$25.00	261.00	\$6,525.00
760-6001	DITCH CLEANING AND RESHAPING (FOOT)	LF	\$15.00	1492.00	\$22,380.00
3076-WC01	BLADE LAY TY B HMAC OVER PIPE	TON	\$105.00	0.00	\$0.00

CHANGE ORDER REASON(S) CODE CHART

1. Design Error or Omission	1A. Incorrect PS&E 1B. Other
2. Differing Site Conditions (unforeseeable)	2A. Dispute resolution (expense caused by conditions and/or resulting delay) 2B. Unavailable material 2C. New development (conditions changing after PS&E completed) 2D. Environmental remediation 2E. Miscellaneous difference in site conditions (unforeseeable)(Item 9) 2F. Site conditions altered by an act of nature 2G. Unadjusted utility (unforeseeable) 2H. Unacquired Right-of-Way (unforeseeable) 2I. Additional safety needs (unforeseeable) 2J. Other
3. County Convenience	3A. Dispute resolution (not resulting from error in plans or differing site conditions) 3B. Public relations improvement 3C. Implementation of a Value Engineering finding 3D. Achievement of an early project completion 3E. Reduction of future maintenance 3F. Additional work desired by the County 3G. Compliance requirements of new laws and/or policies 3H. Cost savings opportunity discovered during construction 3I. Implementation of improved technology or better process 3J. Price adjustment on finished work (price reduced in exchange for acceptance) 3K. Addition of stock account or material supplied by state provision 3L. Revising safety work/measures desired by the County 3M. Other
4. Third Party Accommodation	4A. Failure of a third party to meet commitment 4B. Third party requested work 4C. Compliance requirements of new laws and/or policies (impacting third party) 4D. Other
5. Contractor Convenience	5A. Contractor exercises option to change the traffic control plan 5B. Contractor requested change in the sequence and/or method of work 5C. Payment for Partnering workshop
	5D. Additional safety work/measures desired by the contractor 5E. Other
6. Untimely ROW/Utilities	6A. Right-of-Way not clear (third party responsibility for ROW) 6B. Right-of-Way not clear (County responsibility for ROW) 6C. Utilities not clear 6D. Other

Williamson County Road Bond Program

**Bounds Street Improvements (Thrall)
Williamson County Project No. 21IFB15**

Change Order No. 1

Reason for Change

This Change Order revises the location of the drainage pipe and curb inlets to clear existing utilities and changes the curb inlets from PCO to PCU type inlets. PCO is an inlet with the box located behind the face of the curb. The conflict with the existing utility was located behind the curb. PCU is an inlet with the box located in front of the face of the curb. This Change Order also revises the pipe connection between the curb inlet and the pipe under the driveway and increases the quantity of pavement repair due to the current condition of the pavement.

Following is a summary of the new items required for this Change Order:

ITEM	DESCRIPTION	QTY	UNIT
401-6001	FLOWABLE BACKFILL	150	CY
465-6030	INLET (COMP)(PCU)(3FT)(LEFT)	3	EA
3076-WC01	BLADE LAY TY B HMAC OVER PIPE	10	TON

This Change Order results in a net increase of \$47,437.00 to the Contract amount, for an adjusted Contract total of \$937,425.00. The original Contract amount was \$889,988.00. As a result of this and all Change Orders to-date, the Contract has been increased by \$47,437.00, resulting in an 5.33% net increase in the Contract cost. No additional days will be added to the Contract, as a result of this Change Order.

HNTB Corporation

Oscar Salazar-Bueno, P.E.

BID FORM
WILLIAMSON COUNTY, TEXAS



P.O. Box 1057
Round Rock, TX 78680
(512) 244-0600
Fax (512) 244-6085
12/8/2021

JOB# 21119 SOUTH BOUNDS STREET OVERLAY

CP #1

ITEM	DESC CODE	DESCRIPTION	UNIT	PLAN QTY	REV QTY	DELTA	UNIT PRICE	EXTENSION
401	6001	FLOWABLE BACKFILL	CY	0	150	150	\$160.00	\$ 24,000.00
420	6071	CL C CONC (COLLAR)	EA	2	3	1	\$800.00	\$ 800.00
432	6003	RIPRAP (CONC)(6 IN)	CY	27	23	(4)	\$650.00	\$ (2,600.00)
464	6003	RC PIPE (CL III)(18 IN)	LF	761	771	10	\$100.00	\$ 1,000.00
464	6005	RC PIPE (CL III)(24 IN)	LF	180	186	6	\$120.00	\$ 720.00
465	6014	INLET (COMPL)(PCO)(3FT)(LEFT)	EA	3	0	(3)	\$5,500.00	\$ (16,500.00)
465	6030	INLET (COMPL)(PCU)(3FT)(LEFT)	EA	0	3	3	\$7,600.00	\$ 22,800.00
466	6005	HEADWALL (CH - FW - 0) (DIA = 24 IN)	EA	1	0	(1)	\$5,000.00	\$ (5,000.00)
467	6395	SET (TY II) (24 IN) (RCP) (6: 1) (P)	EA	1	2	1	\$3,800.00	\$ 3,800.00
481	6002	PIPE (PVC) (SDR - 35) (6 IN)	LF	10	21	11	\$80.00	\$ 880.00
496	6007	REMOV STR (PIPE)	LF	261	271	10	\$25.00	\$ 250.00
760	6001	DITCH CLEANING AND RESHAPING (FOOT)	LF	1492	1457	(35)	\$15.00	\$ (525.00)

BLADE LAY TY 'B' OVER 18" RCP

TON \$105.00

\$ 29,625.00

¹Refer to the Technical Specifications section for a description of the specific reference number.

DRAINAGE SUMMARY

PLAN SHEET NO	STATION TO STATION	0420	0420	0432	0464	0464	0464	0464
		6071	6074	6003	6002	6003	6005	6007
		CL C CONC (COLLAR)	CL C CONC (MISC)	RIPRAP (CONC)(6 IN)	RC PIPE (CL III)(15 IN)	RC PIPE (CL III)(18 IN)	RC PIPE (CL III)(24 IN)	RC PIPE (CL III)(30 IN)
1 OF 4		EA	CY	CY	LF	LF	LF	LF
2 OF 4	STA 10+00 TO STA 15+00			8	70	32		
3 OF 4	STA 15+00 TO STA 20+00			4		329		
4 OF 4	STA 20+00 TO STA 25+00		0.03	4		410		140
	STA 25+00 TO STA 30+60			7				42
	TOTAL		0.03	23	70	771	4	182

PLAN SHEET NO	STATION TO STATION						
	0467	0467	0481	0496	0496	0496	0506
	6420	6423	6002	6004	6006	6007	6038
	SET ("Y II) (30 IN) (RCP) (4: 1) (P)	SET (TY II) (30 IN) (RCP) (6: 1) (P)	PIPE (PVC) (SDR - 35) (6 IN)	REMOV STR (SET)	REMOV STR (HEADWALL)	REMOV STR (PIPE)	TEMP SEDMT CONT FENCE (INSTALL)
	EA	EA	LF	EA	EA	LF	LF
1 OF 4					2	32	
2 OF 4					2	32	
3 OF 4	1				1		
4 OF 4		1		2		43	
	1	1		2	5		2,300
	TOTAL						

SIGNING & PAVEMENT MARKING SUMMARY

PLAN SHEET NO	STATION TO STATION	0644	0644	0662	0666	0666	0666
		6067	6068	6111		6048	6093
		IN SM RD SN SUP&AM (INST SIGN ONLY)	RELOCATE SM RD SN SUP&AM TY 10BWG	WK ZN PAV MRK SHT TERM (TAB)TY Y-2	REFL PAV MRK TY I (W)24"(SLD)(100MIL)	REFL PAV MRK TY I (W)(RR XING)(100MIL)	REFL PAV MRK TY I (Y)4"(SLD)(100 L)
		EA	EA	EA	LF	LF	LF
1 OF 2	STA 10+00 TO STA 20+00	7	5	200	36	60	44
2 OF 2	STA 20+00 TO STA 30+60	5	2	200		30	78
	TOTAL	12	7	400	36	90	122
						1	3,566

RATIONAL METHOD CALCULATIONS

Basin ID	Area (ac)	C	Tc (min)	Intensity (in/hr)					Discharge (cfs)					
				2-yr	5-yr	10-yr	25-yr	50-yr	100-yr	2-yr	5-yr	10-yr	25-yr	50-yr
O-1	2.76	0.69	15	4.16	5.16	6.00	7.12	8.04	8.92	7.98	9.90	11.51	13.66	15.42

TIME OF CONCENTRATION CALCULATIONS

BASIN ID	SHEET FLOW			SHALLOW CONCENTRATED FLOW					CHANNEL FLOW								
	ROUGHNESS COEFFICIENT n_d	FLOW LENGTH (FT)	2-YR / 24-HR RAINFALL (IN)	SLOPE (FT/FT)	TRAVEL TIME, T_{sh} (HR)	SURFACE TYPE	FLOW LENGTH (FT)	SLOPE (FT/FT)	AVERAGE VELOCITY (FT/S)	TRAVEL TIME, T_{sc} (HR)	MANNING'S COEFFICIENT n	FLOW LENGTH (FT)	SLOPE (FT/FT)	BOTTOM WIDTH (FT)	DEPTH (FT)	SIDE SLOPE (H:1V)	SIDE SLOPE (H:1V)
O-1	0.011	100	3.93	0.015	0.02	paved	1040.00	0.004	1.27	0.23	0.01	158.00	0.013	2	2	6	6

RUNOFF COEFFICIENT CALCULATIONS

Basin ID	Total Area (ac)	C Value		
		Road (ac)	School (ac)	Composite C Value
		0.90	0.70	0.30
O-1	2.76	0.43	2.08	0.69

RUNOFF CALCULATIONS

Area ID	Basin Data		Time of Conc.		Rainfall Data		
	Total Area (ac)	C-Value	Tc Actual (min)	Tc Used (min)	Design Freq (yr)	I (in/hr)	Q (cfs)
CI-1	0.16	0.90	10	10	5	5.81	0.84
CI-2	0.12	0.90	10	10	5	5.81	0.64
CI-3	0.11	0.90	10	10	5	5.81	0.56

INLET COMPUTATIONS DATA

Inlet ID	Library Name	Reference Chain	Inlet Station	Inlet Offset (ft)	Inlet Elevation (ft)	Inlet Type	Profile Type	Total Discharge (cfs)	Inlet Capacity (cfs)	Bypass Flow into	Ponding Width (ft)	Allow Ponding Width (ft)	Ponding Depth (ft)	Allow Ponding Depth (ft)
CI-1	PCO101-3v5	THRA11 CI	17+00	-15	554.75	Curb	On Grade	0.84	0.84	-	6.620	7	0.13	0.13

HY-8 PROPOSED CULVERT ANALYSIS - BOUNDS ST- CULVERT 3

TABLE 1 - SUMMARY OF CULVERT FLOWS AT CULVERT 3 (PROP)

Headwater Elevation (ft)	Discharge Names	Total Discharge (cfs)	30 Discharge (cfs)	Roadway Discharge (cfs)	Iterations
541.11	2 year	7.98	7.98	0.00	1
541.29	5 year	9.90	9.90	0.00	1
541.43	10 year	11.51	11.51	0.00	1
541.60	25 year	13.66	13.66	0.00	1
541.74	50 year	15.42	15.42	0.00	1
541.87	100 year	17.11	17.11	0.00	1
544.47	Overtopping	38.91	38.91	0.00	Overtopping

Crossing - Culvert 3 (Proposed - Revised_11.10.21), Design Discharge - 17.1 cfs
Culvert - 30, Culvert Discharge - 17.1 cfs

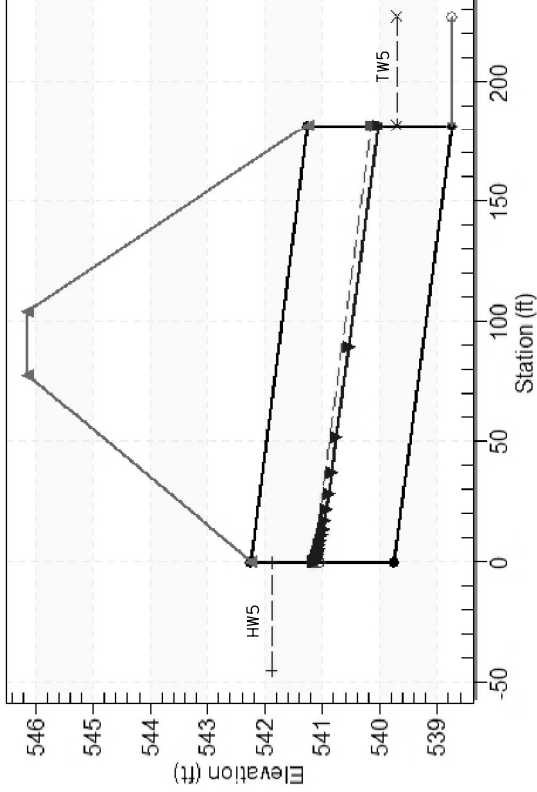


TABLE 2 - CULVERT SUMMARY TABLE: CULVERT 3 (PROP)

Discharge Names	Total Discharge (cfs)	Culvert Discharge (cfs)	Headwater Elevation (ft)	Inlet Control Depth (ft)	Outlet Control Depth (ft)	Flow Type	Normal Depth (ft)	Critical Depth (ft)	Outlet Depth (ft)	Tailwater Depth (ft)	Outlet Velocity (ft/s)	Tailwater Velocity (ft/s)
2 year	7.98	7.98	541.11	1.364	0.067	1-S2n	0.837	0.938	0.837	0.661	5.538	1.514
5 year	9.90	9.90	541.29	1.540	0.248	1-S2n	0.938	1.051	0.938	0.734	5.879	1.604
10 year	11.51	11.51	541.43	1.676	0.403	1-S2n	1.019	1.137	1.019	0.789	6.123	1.670
25 year	13.66	13.66	541.60	1.847	0.619	1-S2n	1.121	1.243	1.121	0.856	6.407	1.747
50 year	15.42	15.42	541.74	1.985	0.803	1-S2n	1.201	1.325	1.201	0.906	6.610	1.804
100 year	17.11	17.11	541.87	2.119	0.988	1-S2n	1.277	1.398	1.277	0.951	6.785	1.854

Site Data - 30

Site Data
Inlet Station
Inlet Elevation
Outlet Station
Outlet Elevation
Number of

Culvert Data Summary

Barrel Shape
Barrel Diameter
Barrel Material
Embedment
Barrel Material
Culvert Type
Inlet Configuration
Inlet Depression

Straight Culvert

Inlet Elevation (invert): 539.75 ft, Outlet Elevation (invert): 538.75 ft

Culvert Length: 182.00 ft, Culvert Slope: 0.0055

Roadway Data for Crossing: Culvert 3 (Proposed - Revised_11.10.21) Tailwater Channel Data - Culvert 3 (Proposed - Revised_11.10.21)

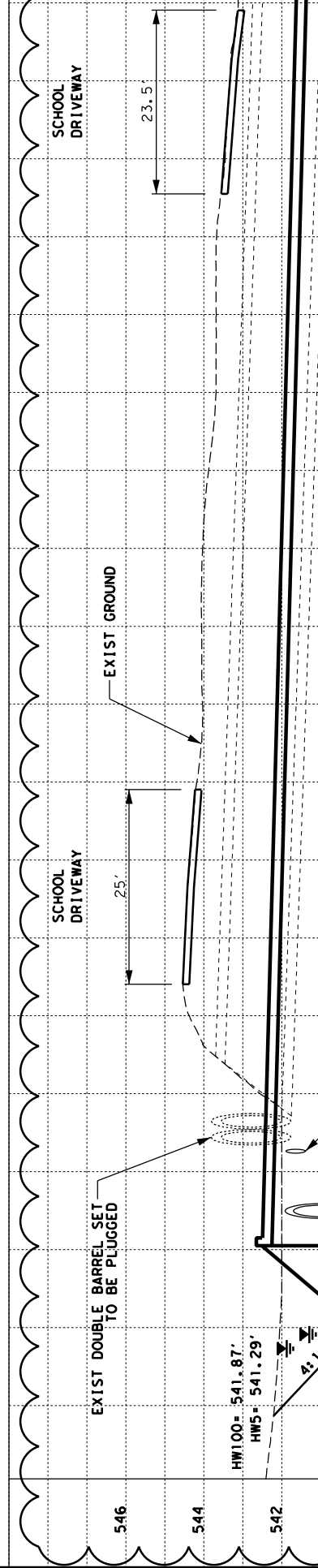
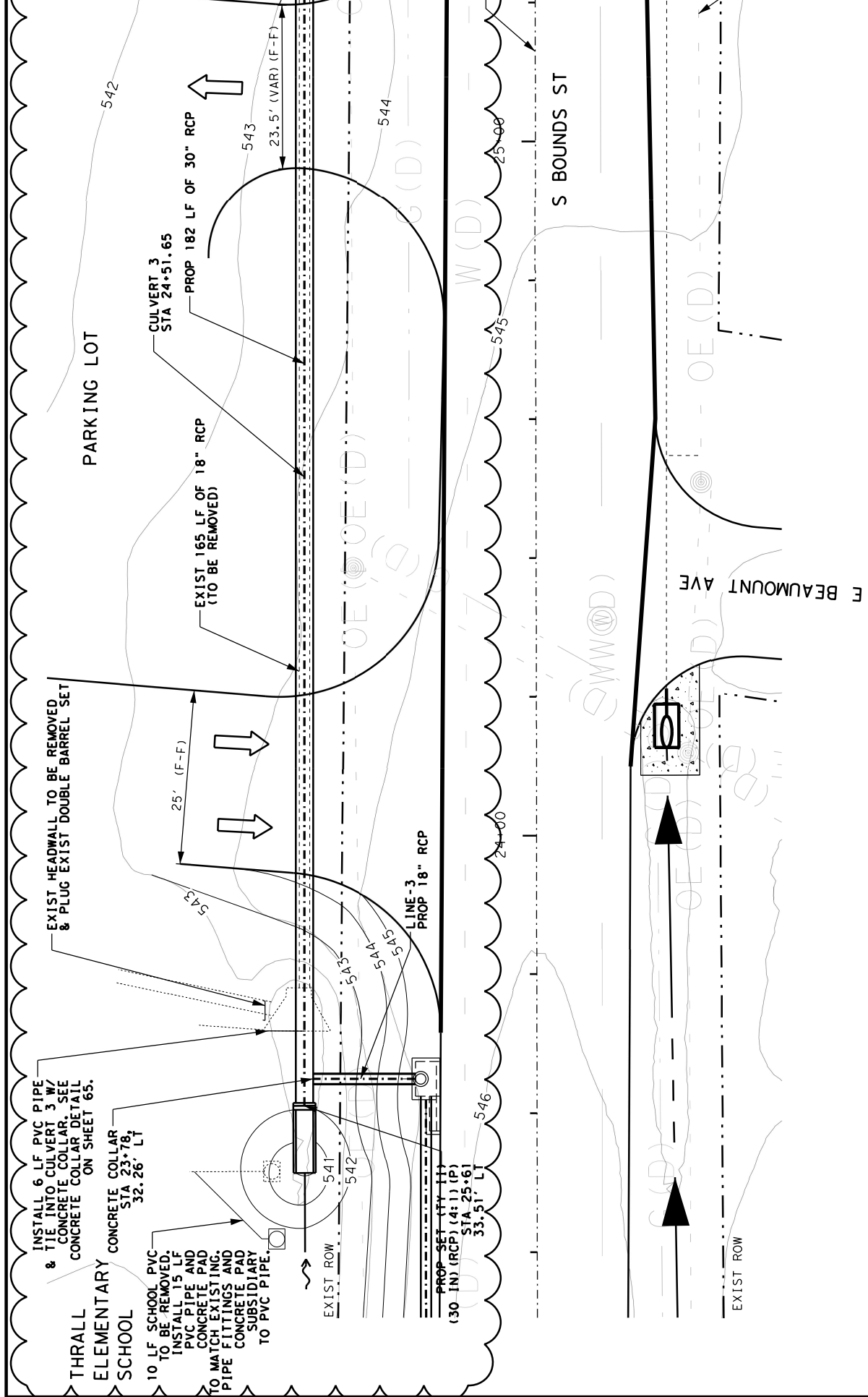
Roadway Profile Shape: Irregular Roadway Shape (coordinates)

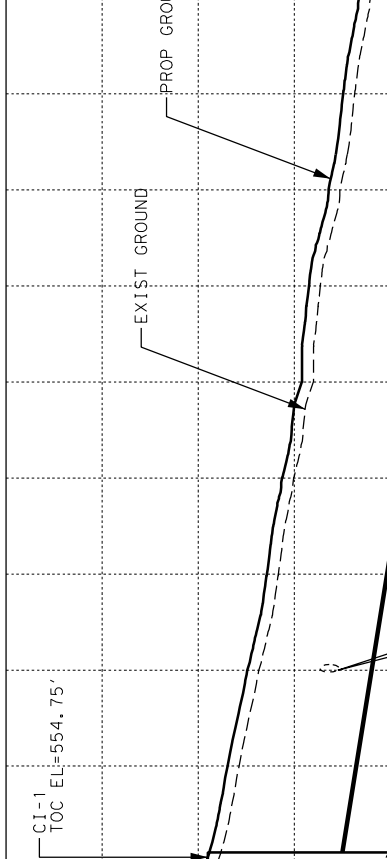
Tailwater Channel Option: Trapezoidal Channel

Irregular Roadway Cross-Section:

Coord No.	Station (ft)	Elevation (ft)
0	0.00	546.15
1	25.00	545.91
2	50.00	545.67
3	75.00	545.43
4	100.00	545.19
5	125.00	544.95

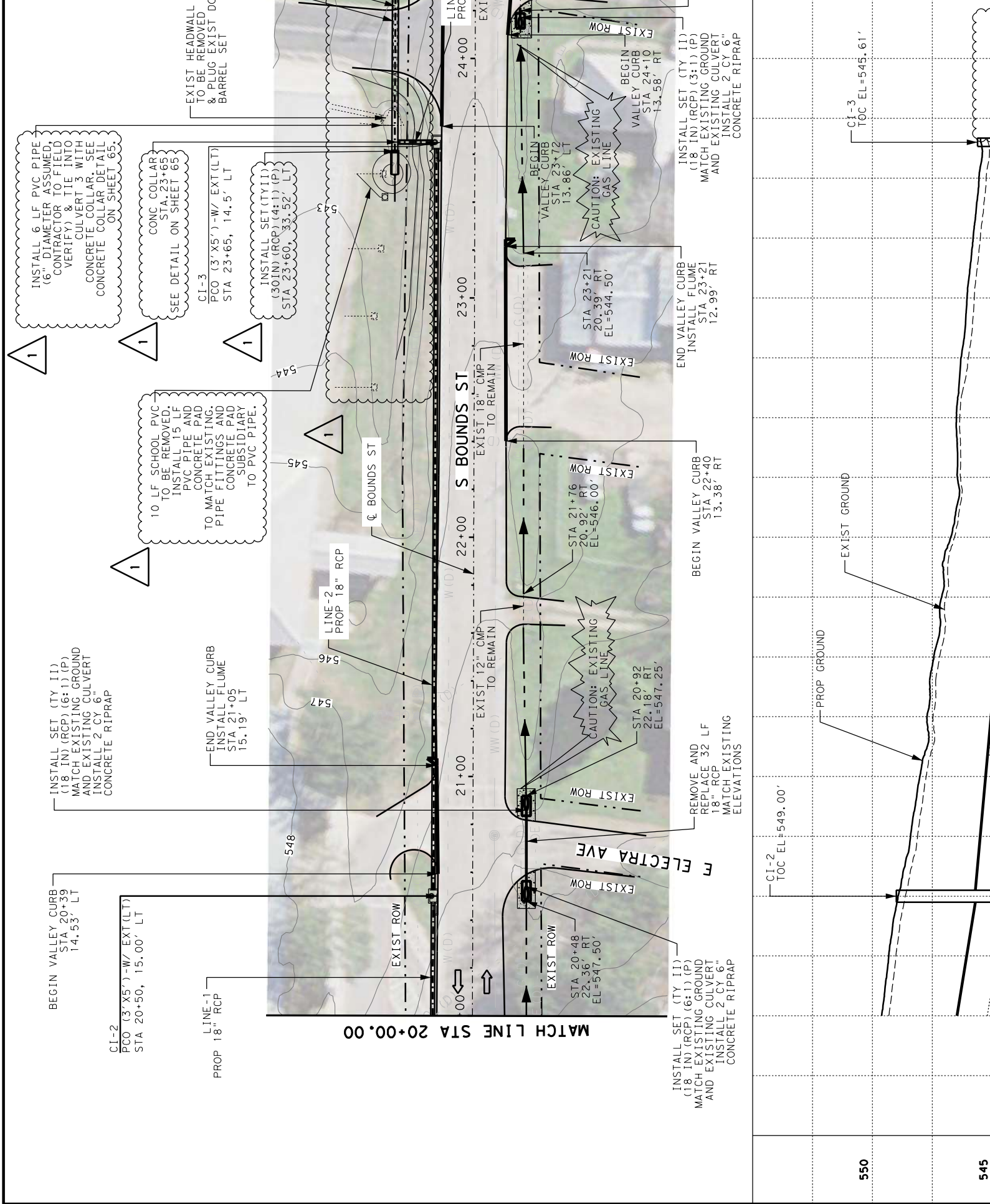
Bottom Width: 4.00 ft
Side Slope (H:V): 6.00 (1:1)
Channel Slope: 0.0050
Channel Manning's n: 0.0400
Channel Invert Elevation: 538.75 ft

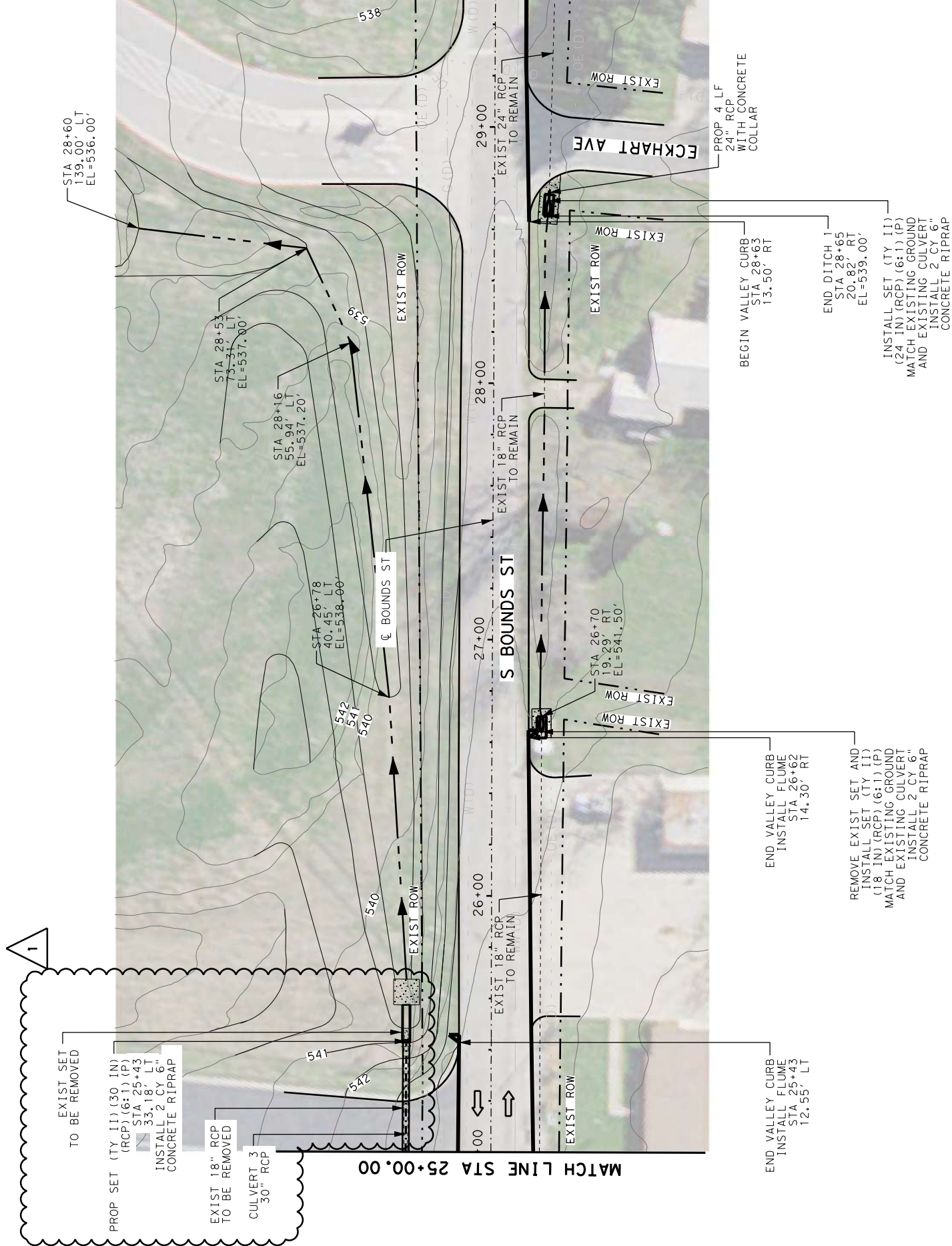


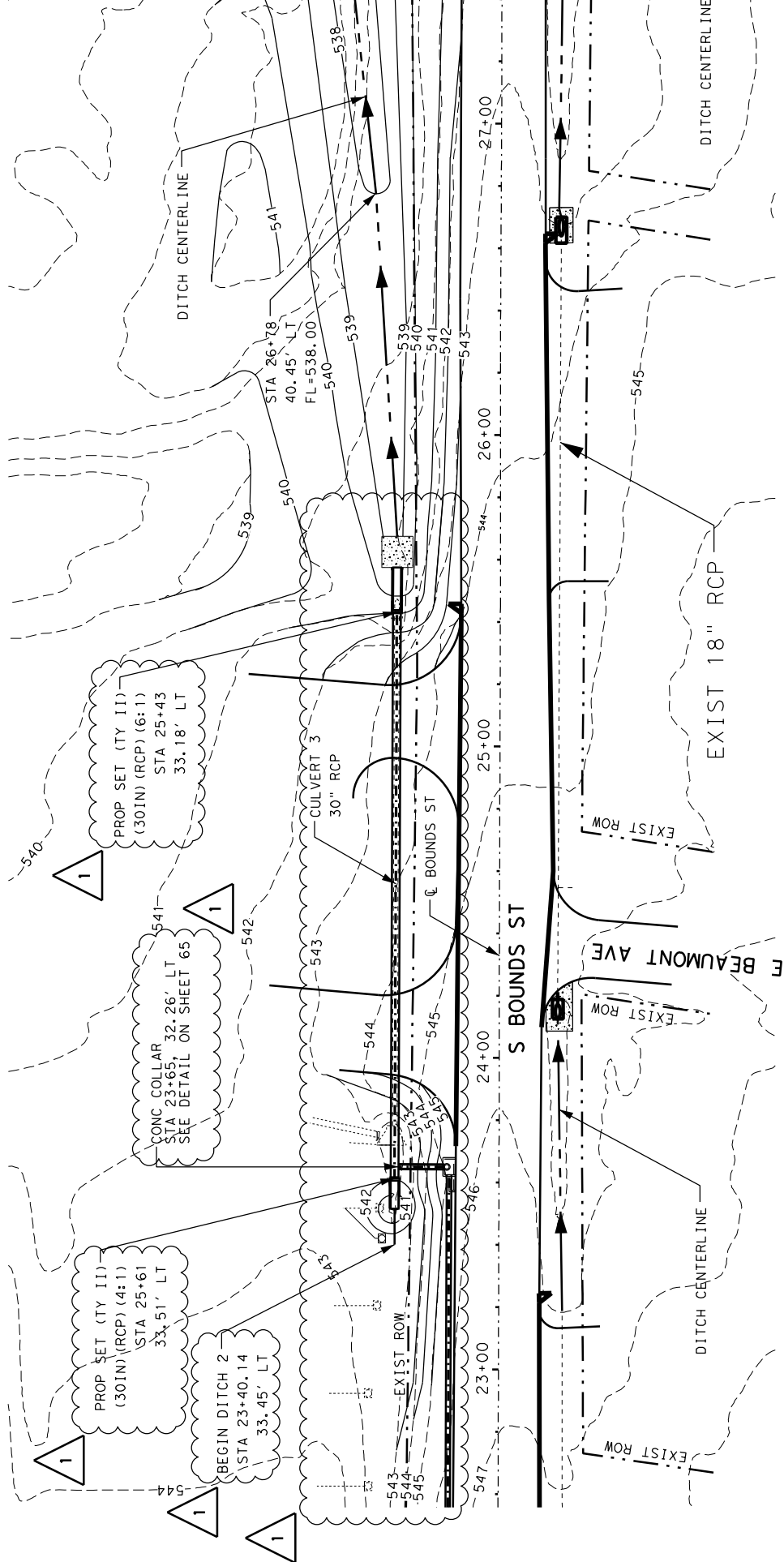


—EXIST GROUND

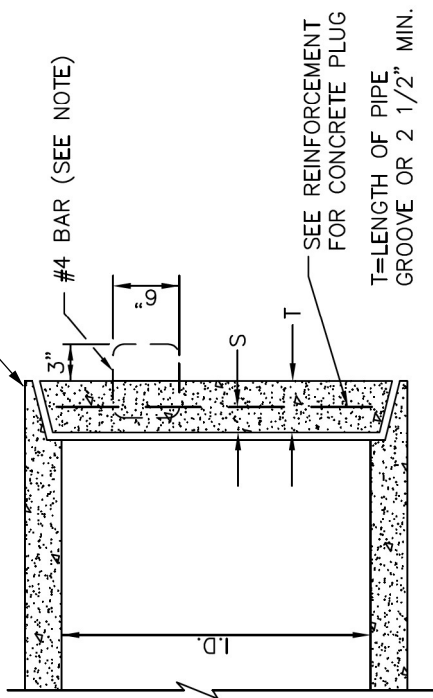
-PROP GROU







PROVIDE MASTIC MATERIAL
TXDOT ITEM 420 BETWEEN
AND PIPE (TYP)



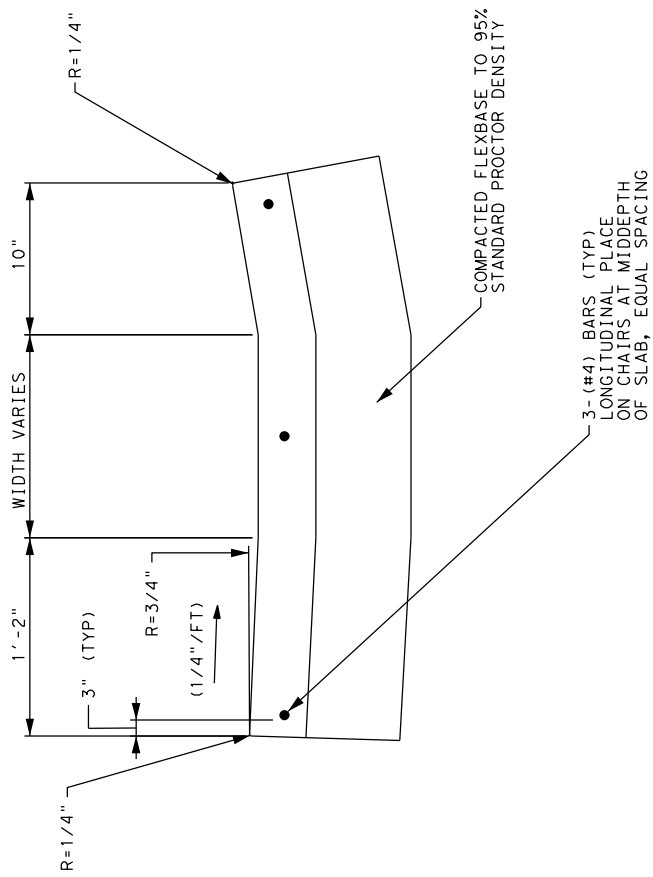
REINFORCEMENT FOR CONCRETE PLUG

PIPE SIZE	REINF. BAR	DISTANCE C-C	S
18"-39"	#3	12" E.W.	1/2T
42"-54"	#3	12" E.W.	1/3T
60"-72"	#4	12" E.W.	1/4T

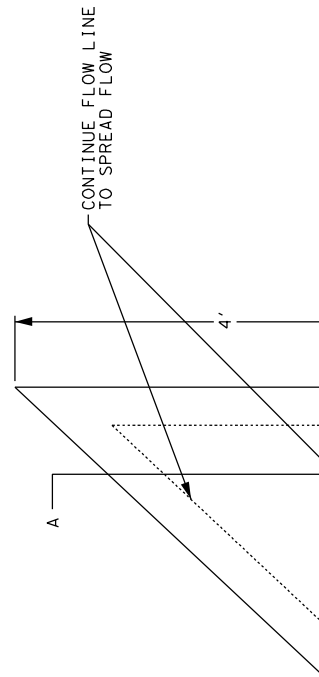
NOTE: STEEL HANDLE FOR REINFORCED CONCRETE
PIPE PLUG SHALL BE LOCATED 1/4 I.D. ABOVE CENTER
POINT OF PLUG. TWO STEEL HANDLES WILL BE
REQUIRED ON PLUGS OF 36" PIPES OR LARGER AND
SHALL BE PLACED 1/4 I.D. APART AND 1/4 I.D. ABOVE
CENTER OF PLUG. MASTIC MATERIAL IS SUBSIDIARY
TO CONCRETE PLUG.

CONCRETE PLUG DETAILS

NO SCALE

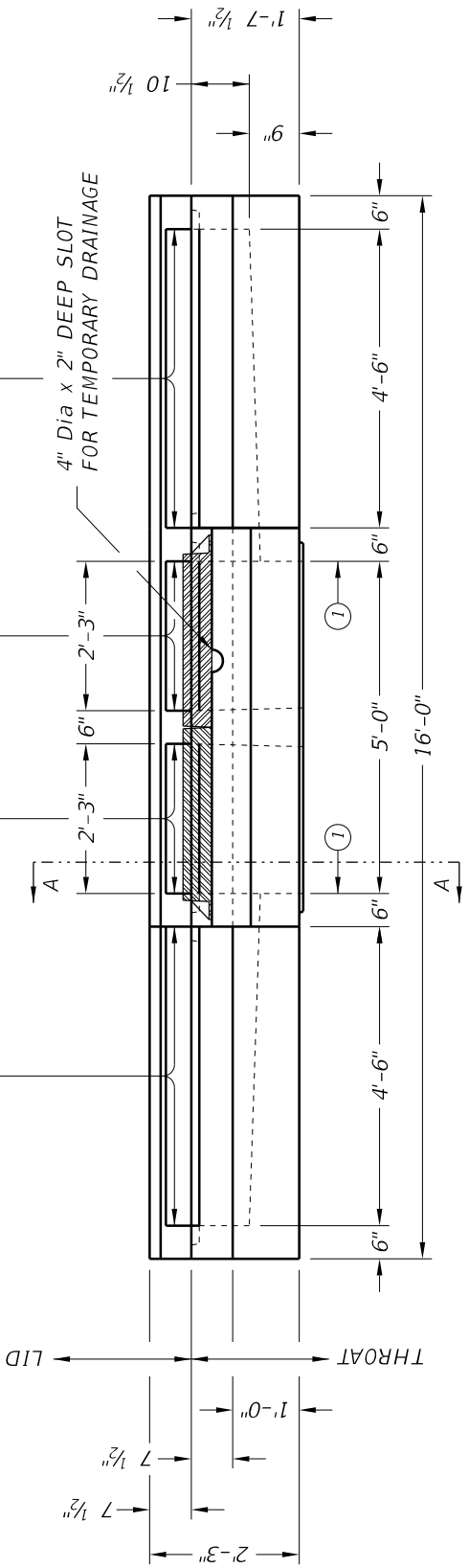


SECTION A-A

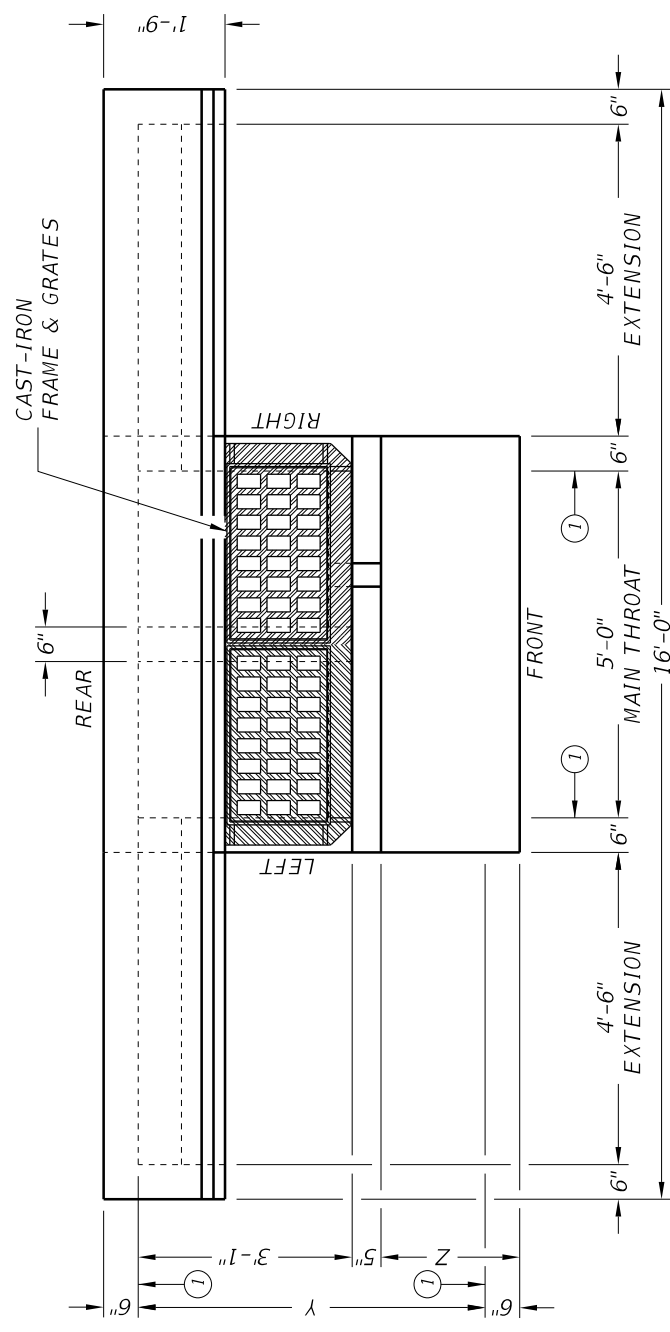


FLOW LINE

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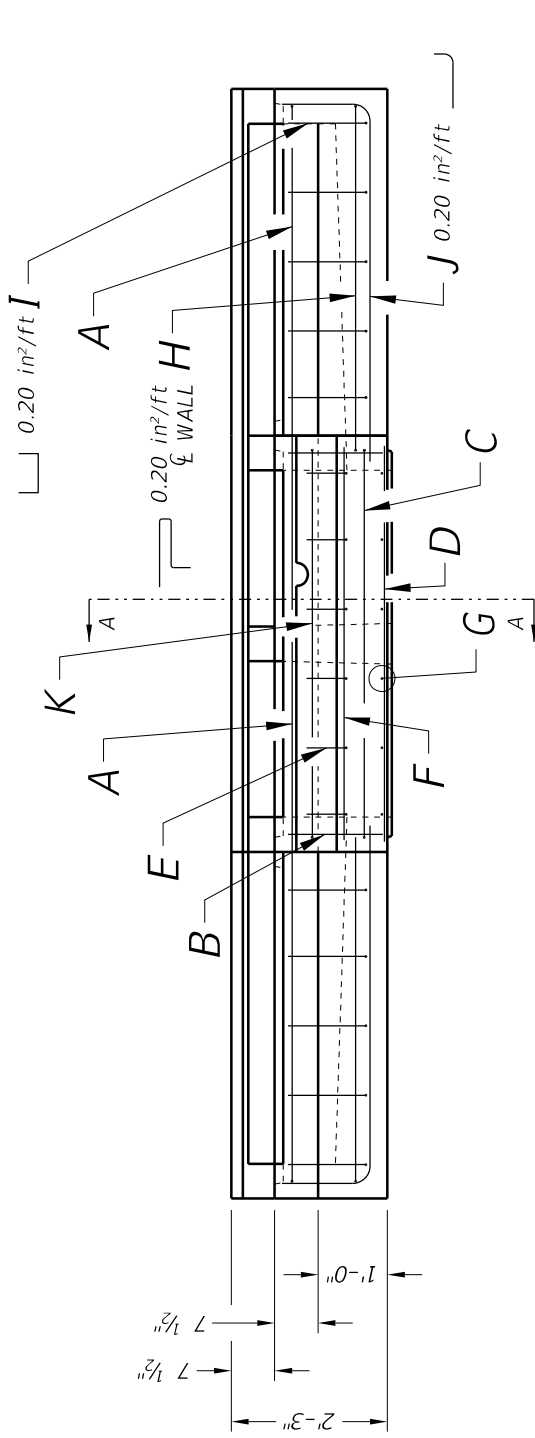


FRONT VIEW
(SHOWING LEFT AND RIGHT EXTENSIONS)



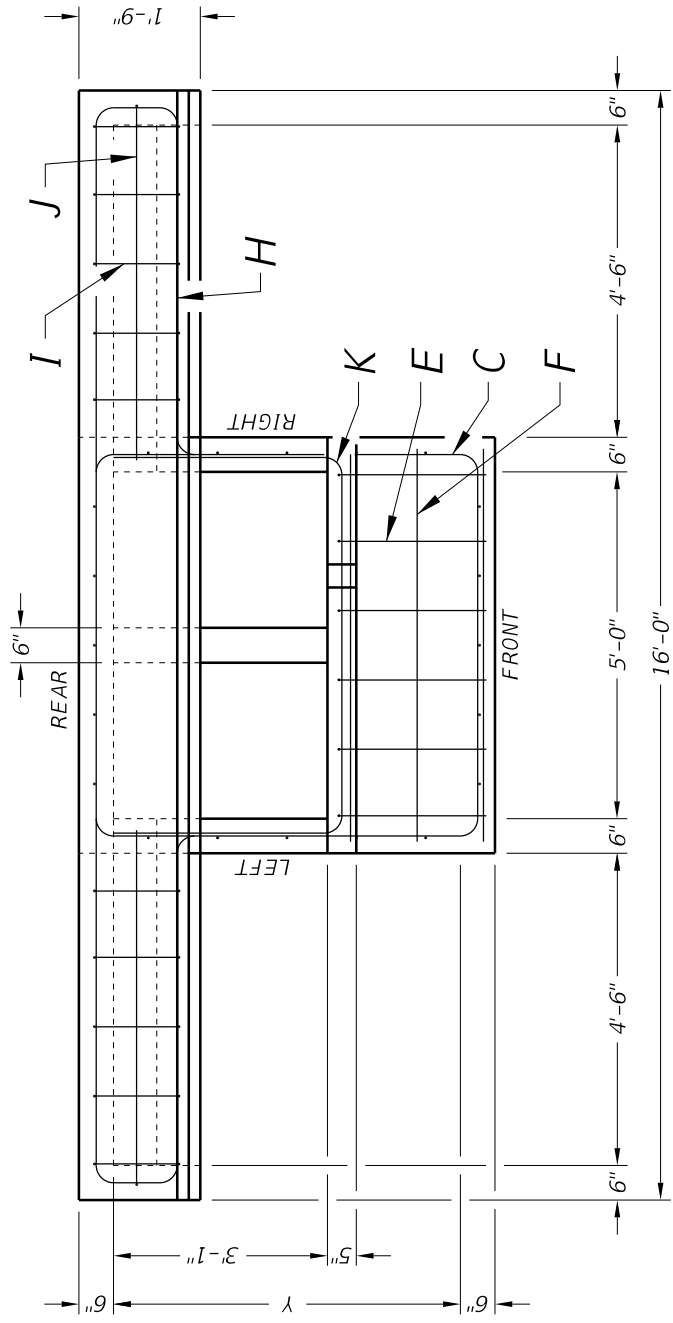
3/4" MIN TYP

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FRONT VIEW

(SHOWING LEFT AND RIGHT EXTENSIONS)



PLAN VIEW

(SHOWING LEFT AND RIGHT EXTENSIONS)

FABRICAT
1. Provide
2. Provide
3. Provide
4. Extensio
5. Design t
6. Provide
7. Chamfer

INST ALLA
1. Inlet thr
2. Seal ton
3. Do not g

GENERAL
1. Designe
2. Open arc
3. Payment
4. Extensio

SIZE (VA