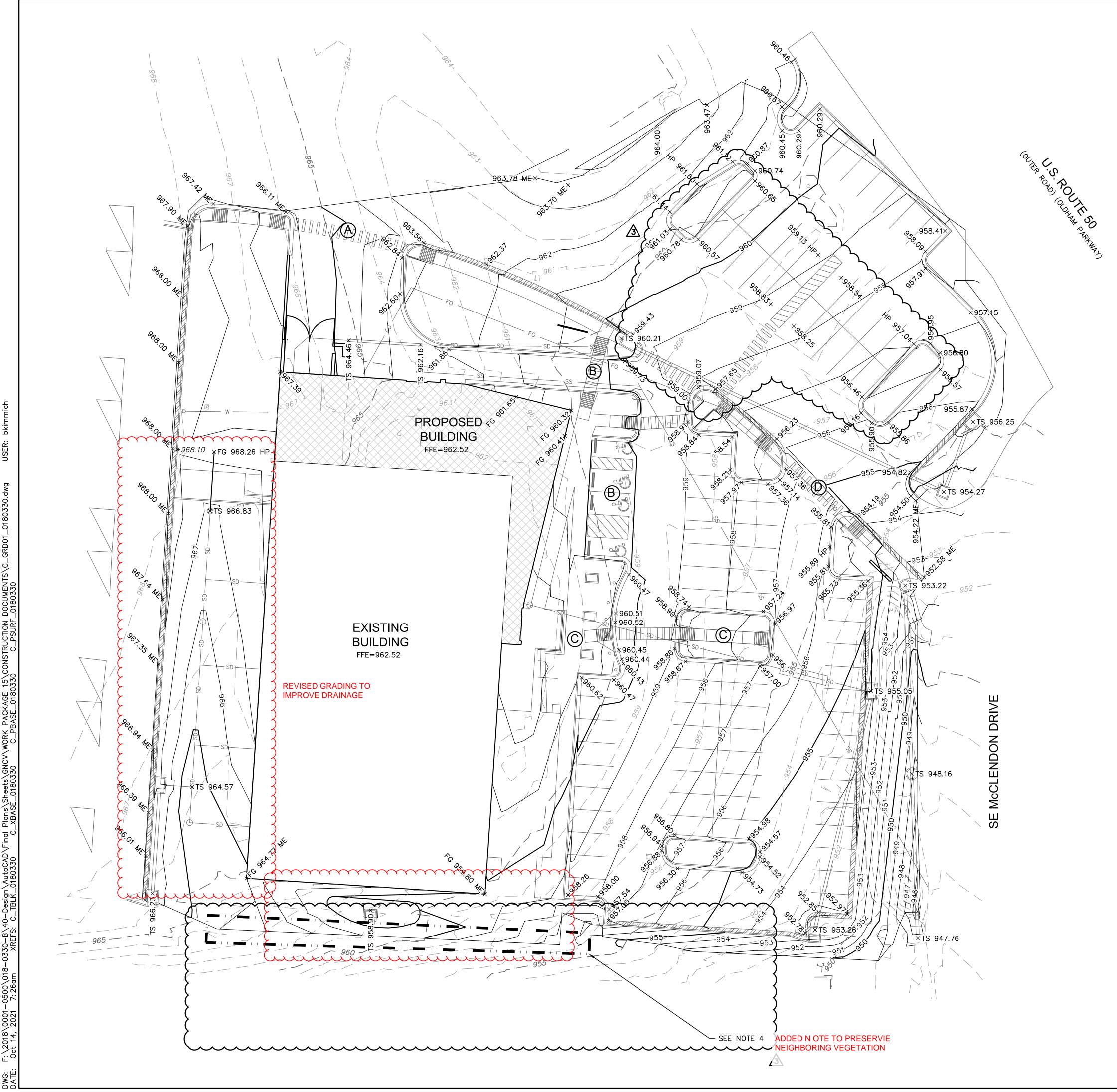


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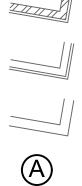


LEGEND

RAMP

 995
 995
998
998

----- PROPERTY LINE — EXISTING MAJOR CONTOUR EXISTING MINOR CONTOUR ----- PROPOSED MAJOR CONTOUR ----- PROPOSED MINOR CONTOUR



CONCRETE CURB & GUTTER TYPE "CG-1"

CONCRETE CURB & GUTTER TYPE "CG-1 DRY"

CONCRETE CURB TYPE "C-1" MODIFIED GRADING DETAIL

NOTES:

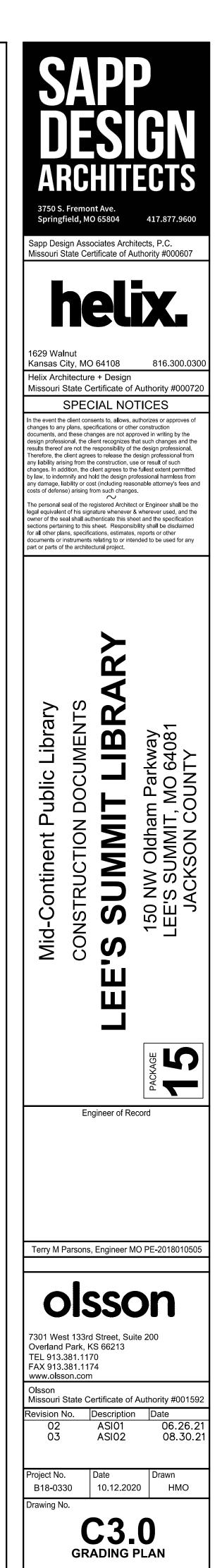
- 1. CONTRACTOR TO REMOVE AND REPLACE ALL SIDEWALK NECESSARY FOR CONNECTION TO EXISTING.
- 2. ALL ADA ACCESSIBLE SIDEWALK CROSS SLOPES SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.00% AND MAXIMUM LONGITUDINAL SLOPE OF 5.00%.
- 3. ALL ADA ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2.00% IN ANY DIRECTION.
- 4. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISITNG LANDSCAPING AT FENCE AND NEIGHBORING PROPERTY.

SPOT ELEVATION LEGEND

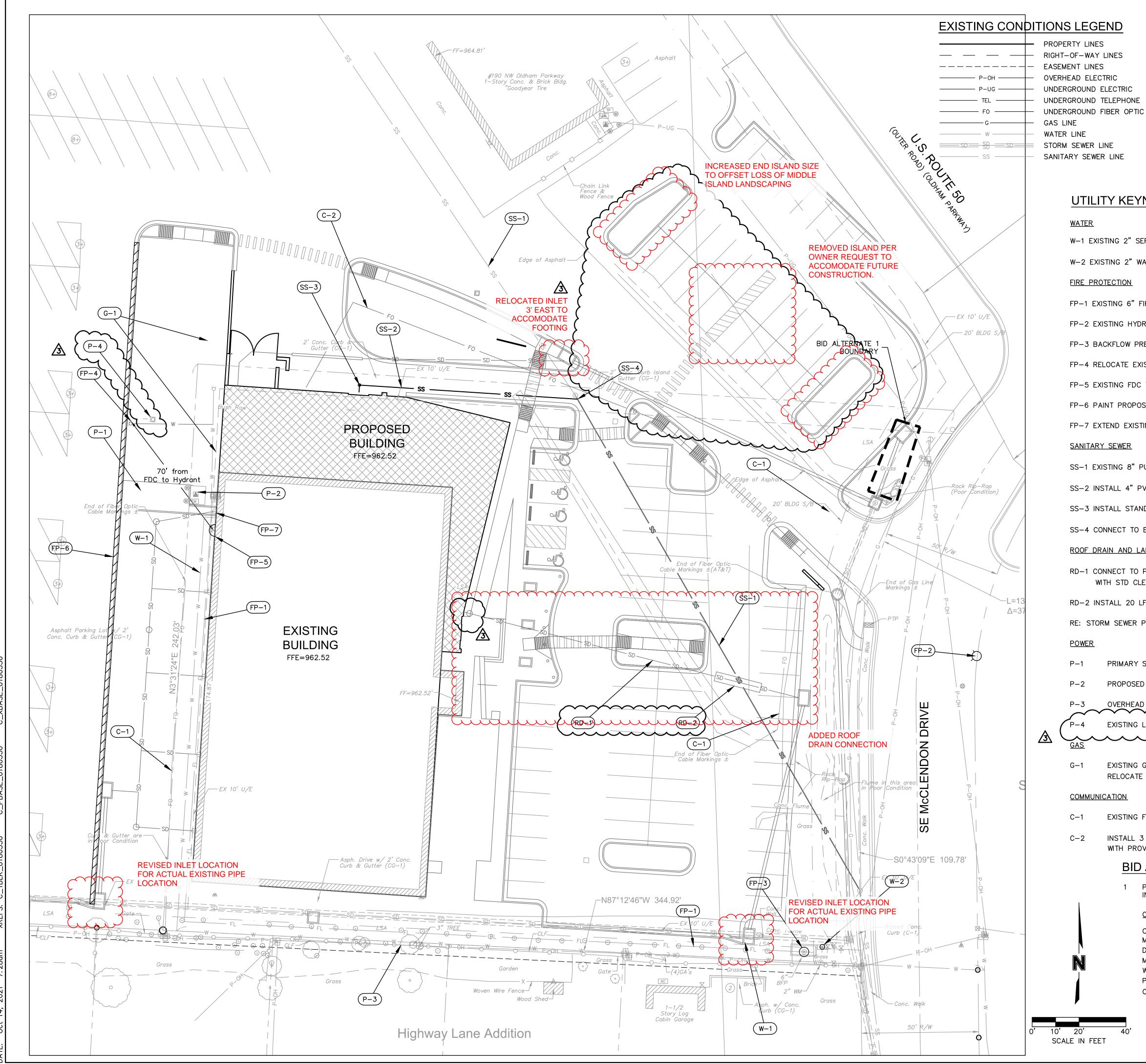
ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT ELEVATION UNLESS NOTED OTHERWISE. RE: PLAN VIEW, LEGEND AND DETAILS FOR CURB TYPE AND TO CALCULATE TOP OF CURB ELEVATION.

TC=	TOP OF CURB
FG=	FINISHED GRADE WITHIN GREENSPACE
TS=	TOP OF STRUCTURE
TP=TC=	CURB DEPRESSED TO BE FLUSH WITH
	ADJACENT PAVEMENT
HP=	HIGH POINT
LP=	LOW POINT
MATCH EX.=	= MATCH EXISTING
FFE=	FINISH FLOOR ELEVATION AT TOP OF SLAB

10' 20' SCALE IN FEET



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PROPOSED CONDITIONS LEGEND

---- PROPOSED UNDERGROUND ELECTRIC PROPOSED FIBER OPTIC PROPOSED WATER LINE PROPOSED FIRE PROTECTION LINE PROPOSED STORM SEWER LINE ____ PROPOSED TURF DRAIN LINE PROPOSED SANITARY SEWER SERVICE CONCRETE CURB & GUTTER

PROPOSED BUILDING

UTILITY KEYNOTES: (XX) -

W-1 EXISTING 2" SERVICE LINE TO REMAIN

W-2 EXISTING 2" WATER METER TO REMAIN

FP-1 EXISTING 6" FIRE SERVICE TO REMAIN

FP-2 EXISTING HYDRANT TO REMAIN

FP-3 BACKFLOW PREVENTOR AND VAULT TO REMAIN

FP-4 RELOCATE EXISTING HYDRANT

FP-5 EXISTING FDC TO REMAIN

FP-6 PAINT PROPOSED CURB RED AT BACK OF BUILDING FOR FIRE LANE PER CITY STANDARDS

FP-7 EXTEND EXISTING SPRINKLER DRAIN TO OUTFLOW ONTO PROPOSED ASPHALT FLUME

SS-1 EXISTING 8" PUBLIC SANITARY MAIN

SS-2 INSTALL 4" PVC SERVICE LINE

SS-3 INSTALL STANDARD CLEANOUT

SS-4 CONNECT TO EXISTING WYE ON THE EXISTING 8" MAIN (APPROX. FL=962.68)

ROOF DRAIN AND LANDSCAPE DRAINS

RD-1 CONNECT TO PROPOSED CANOPY ROOF DRAIN AND INSTALL 147 LF 4" PVC PIPE WITH STD CLEANOUT AT BLDG AND CONNECT TO PROP. INLET (IE = 951.82)

RD-2 INSTALL 20 LF OF CONCRETE ENCASEMENT ON STORM LINE PER CITY STANDARDS

RE: STORM SEWER PLAN & PROFILE - SHEETS C5.0 THRU C5.4 FOR REMAINDER OF ROOF DRAINS

PRIMARY SERVICE

PROPOSED TRANSFORMER TO REMAIN

OVERHEAD POWER TO REMAIN $\sim\sim\sim\sim\sim$ EXISTING LIGHT POLE TO REMAIN.

EXISTING GAS METER TO BE REMOVED AND RESET DURING ADDITON CONSTRUCTION. RELOCATE GAS LINE (COORDINATE FINAL LOCATION WITH PROVIDER).

EXISTING FIBER LINE TO REMAIN

INSTALL 3 – 4" PVC CONDUITS PER PROVIDER STANDARDS. COORDINATE FINAL LOCATION WITH PROVIDER

BID ALTERNATE

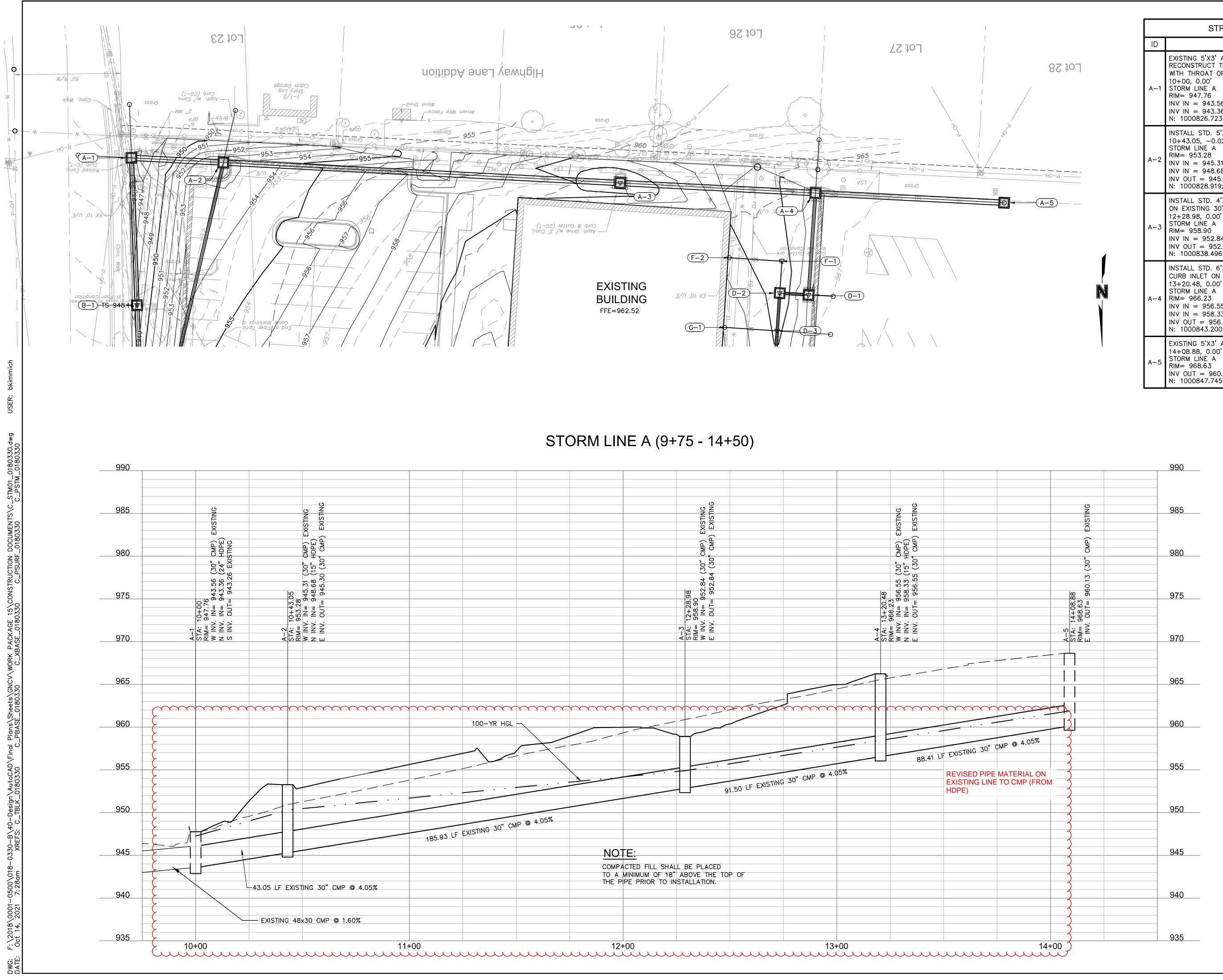
PROPOSED STORM IMPROVEMENTS WITHIN THIS BOUNDARY SHALL BE INCLUDED IN BID ALTERNATE 1.

CONTRACTOR NOTE (W-2):

CONTRACTOR TO VERIFY DEPTH OF EXISTING 2" WATERLINE AT METER. 4 FT OF MINIMUM COVER IS DESIRED. IF THE DEPTH OF THE SERVICE LINE IS LESS THAN DESIRED THE CONTRACTOR SHALL NOTIFY THE ENGINEER. GRADE ADJUSTMENTS MAY BE REQUIRED TO THE METER PIT AND BFP VAULT. SEGMENTAL RETAINING WALL MAY ALSO BE REQUIRED TO PREVENT DISTURBANCE OF NEIGHBORING PROPERTY. THE CONTRACTOR SHALL CARRY AN ALLOWANCE FOR AN INCREASE OF 1' IN HEIGHT TO THE PIT AND VAULT AND 30 SF OF WALL FACE.

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UTILITY PLAN pyright 2019 - Sapp Design Associates, Architects, P.C.



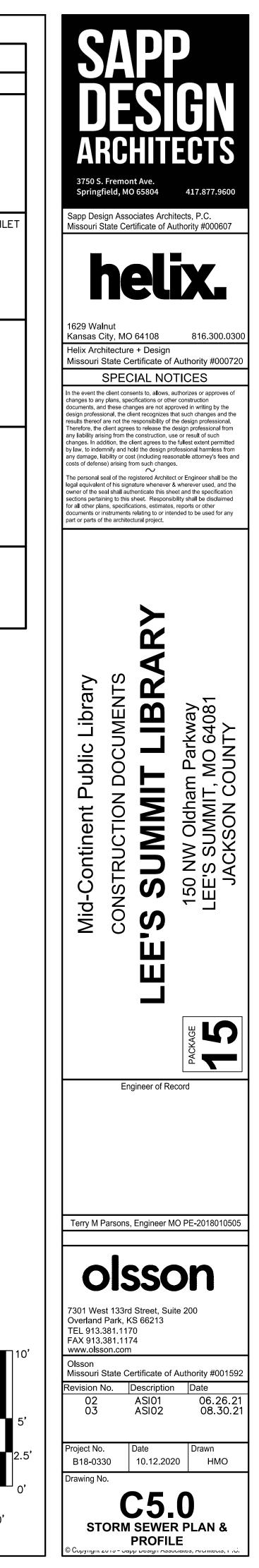
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							" OND @ 4.	05%			REVISED PIPE	MATERIAL
						- EVISTING	30" CMF				EXISTING LINE	TO CMP (
• • •					<u> </u>	1.50 LF EXISTING					HDPE)	, , , , , , , , , , , , , , , , , , ,
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	P @ 4.05%											
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		TO A	MINIMUM OF 18"	ABOVE	E THE TO	OP OF						
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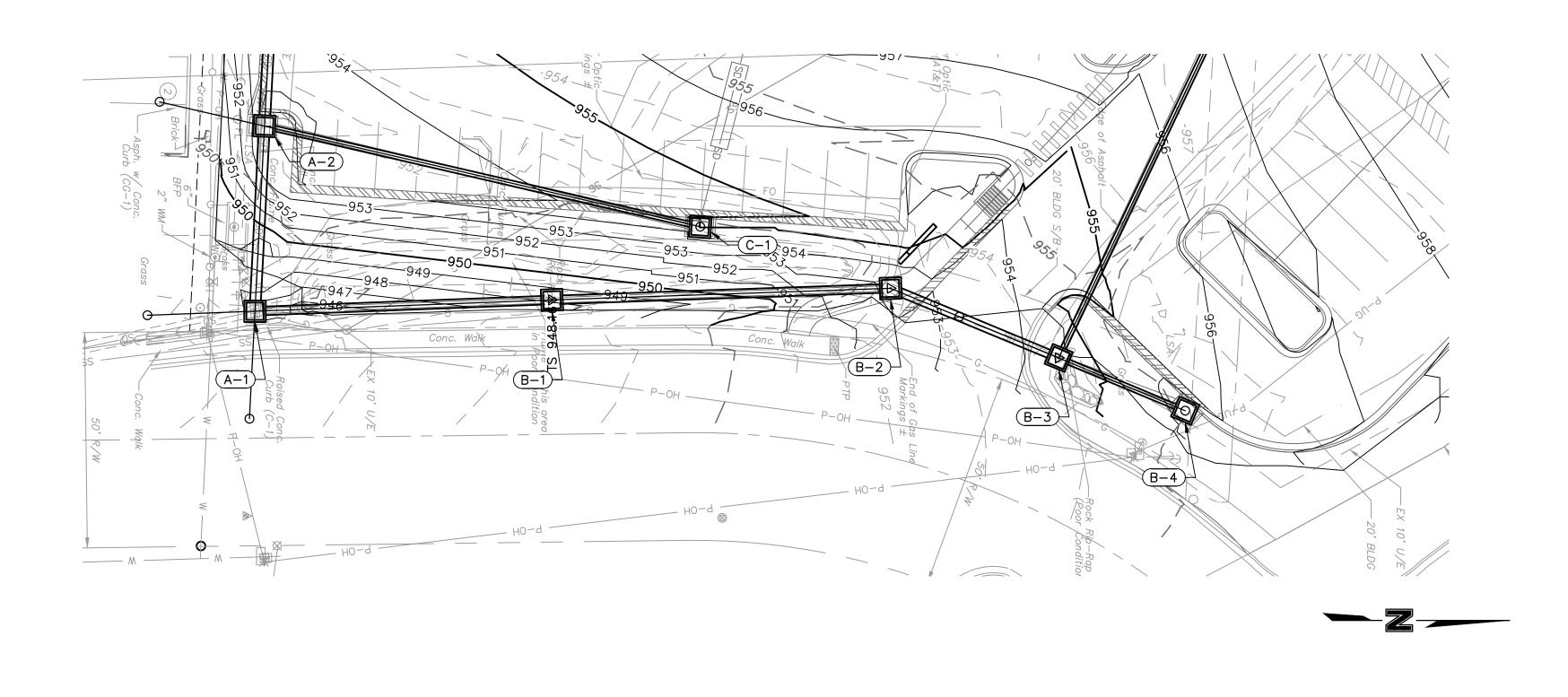
	STRUCTURES				
ID	DESCRIPTION				
A-1	EXISTING 5'X3' AREA INLET RECONSTRUCT TO AREA INLET WITH THROAT OPENING (N.) 10+00, 0.00' STORM LINE A RIM= 947.76 INV IN = 943.56 (30" CMP) EXISTING INV IN = 943.36 (24" HDPE) EXISTING N: 1000826.723; E: 2817077.444				
A-2	INSTALL STD. 5'X4' NON-SETBACK CURB INLET 10+43.05, -0.02' LT STORM LINE A RIM= 953.28 INV IN = 945.31 (30" CMP) INV IN = 948.68 (15" HDPE) INV OUT = 945.30 (30" CMP) N: 1000828.919; E: 2817034.454				
A-3	INSTALL STD. 4'X4' JUNCTION BOX ON EXISTING 30" HDPE 12+28.98, 0.00' STORM LINE A RIM= 958.90 INV IN = 952.84 (30" CMP) INV OUT = 952.84 (30" CMP) N: 1000838.496; E: 2816848.767				
A-4	INSTALL STD. 6'X4' NON-SETBACK CURB INLET ON EXISTING 30" HDPE 13+20.48, 0.00' STORM LINE A RIM= 966.23 INV IN = 956.55 (30" CMP) INV IN = 958.33 (15" HDPE) INV OUT = 956.55 (30" CMP) N: 1000843.200; E: 2816757.391				
A-5	EXISTING 5'X3' AREA INLET 14+08.88, 0.00' STORM LINE A RIM= 968.63 INV OUT = 960.13 (30" CMP) N: 1000847.745; E: 2816669.102				

10' 20'

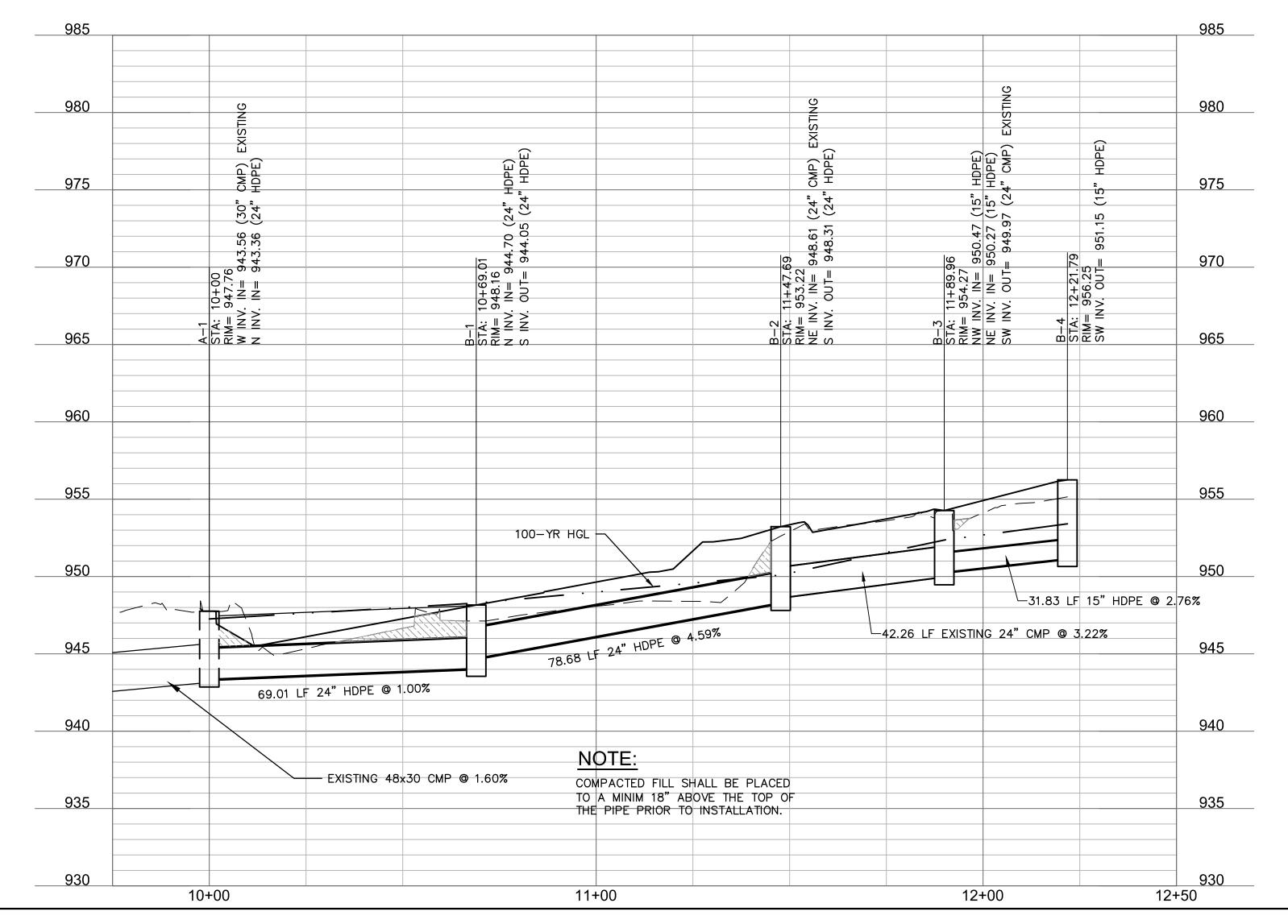
SCALE IN FEET

40'



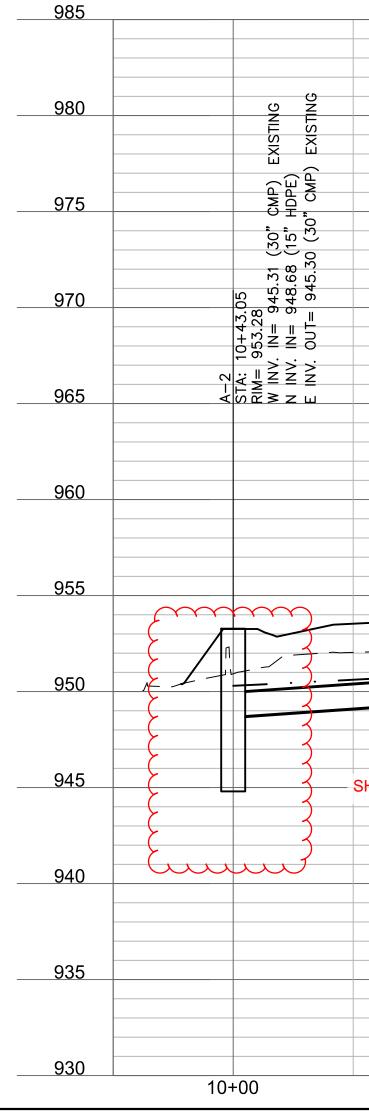


STORM LINE B (9+75 - 12+50)

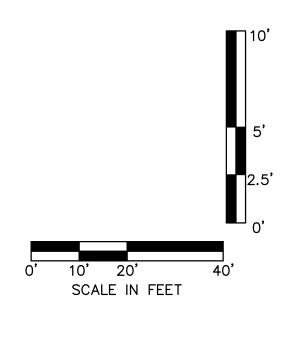


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	STRUCTURES					
ID	DESCRIPTION					
A-1	EXISTING 5'X3' AREA INLET RECONSTRUCT TO AREA INLET WITH THROAT OPENING (N.) 10+00, 0.00' STORM LINE A RIM= 947.76 INV IN = 943.56 (30" CMP) INV IN = 943.36 (24" HDPE) N: 1000826.723; E: 2817077.444					
B-1	INSTALL STD. 4'X4' GRATE INLET 10+69.01, 0.00' STORM LINE B RIM= 948.16 INV IN = 944.70 (24" HDPE) INV OUT = 944.05 (24" HDPE) N: 1000895.688; E: 2817074.834					
B-2	INSTALL STD. 4'X4' JUNCTION BOX 11+47.69, 0.00' STORM LINE B RIM= 953.22 INV IN = 948.61 (24" CMP) INV OUT = 948.31 (24" HDPE) N: 1000974.321; E: 2817072.115					
B-3	INSTALL STD. 4'X4' GRATE INLET 11+89.96, 0.00' STORM LINE B RIM= 954.27 INV IN = 950.47 (15" HDPE) INV IN = 950.27 (15" HDPE) INV OUT = 949.97 (24" CMP) N: 1001013.366; E: 2817088.293					
B-4	INSTALL STD. 6'X4' NON-SETBACK CURB INLET 12+21.79, 0.00' STORM LINE B RIM= 956.25 INV OUT = 951.15 (15" HDPE) N: 1001042.746; E: 2817100.544					



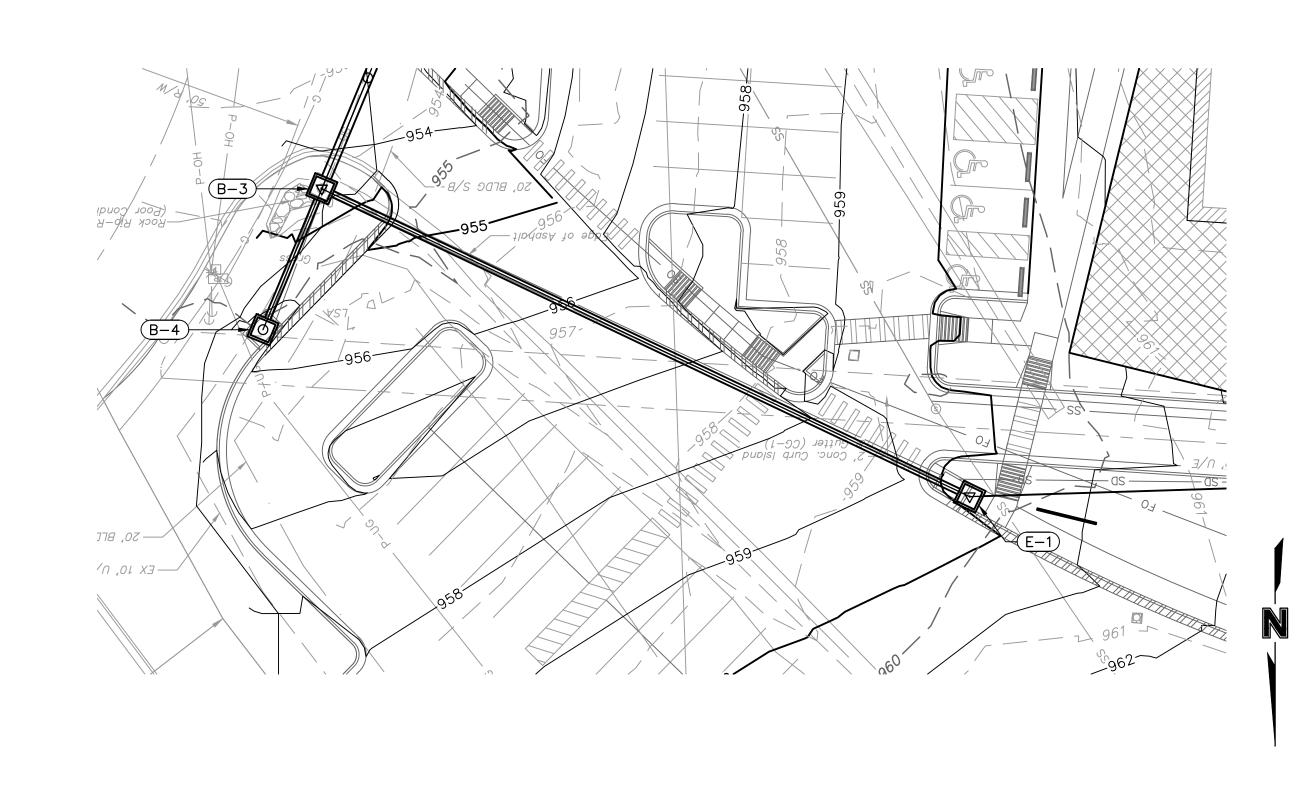
	STRUCTURES
ID	DESCRIPTION
A-2	INSTALL STD. 5'X4' NON-SETBACK CURB INLET 10+43.05, -0.02' LT STORM LINE A RIM= 953.28 INV IN = 945.31 (30" CMP) INV IN = 948.68 (15" HDPE) INV OUT = 945.30 (30" CMP) N: 1000828.919; E: 2817034.454
C-1	INSTALL STD. 6'X4' NON-SETBACK CURB INLET 11+03.86, 0.00' STORM LINE C RIM= 955.05 INV OUT = 950.50 (15" HDPE) N: 1000930.117; E: 2817057.827

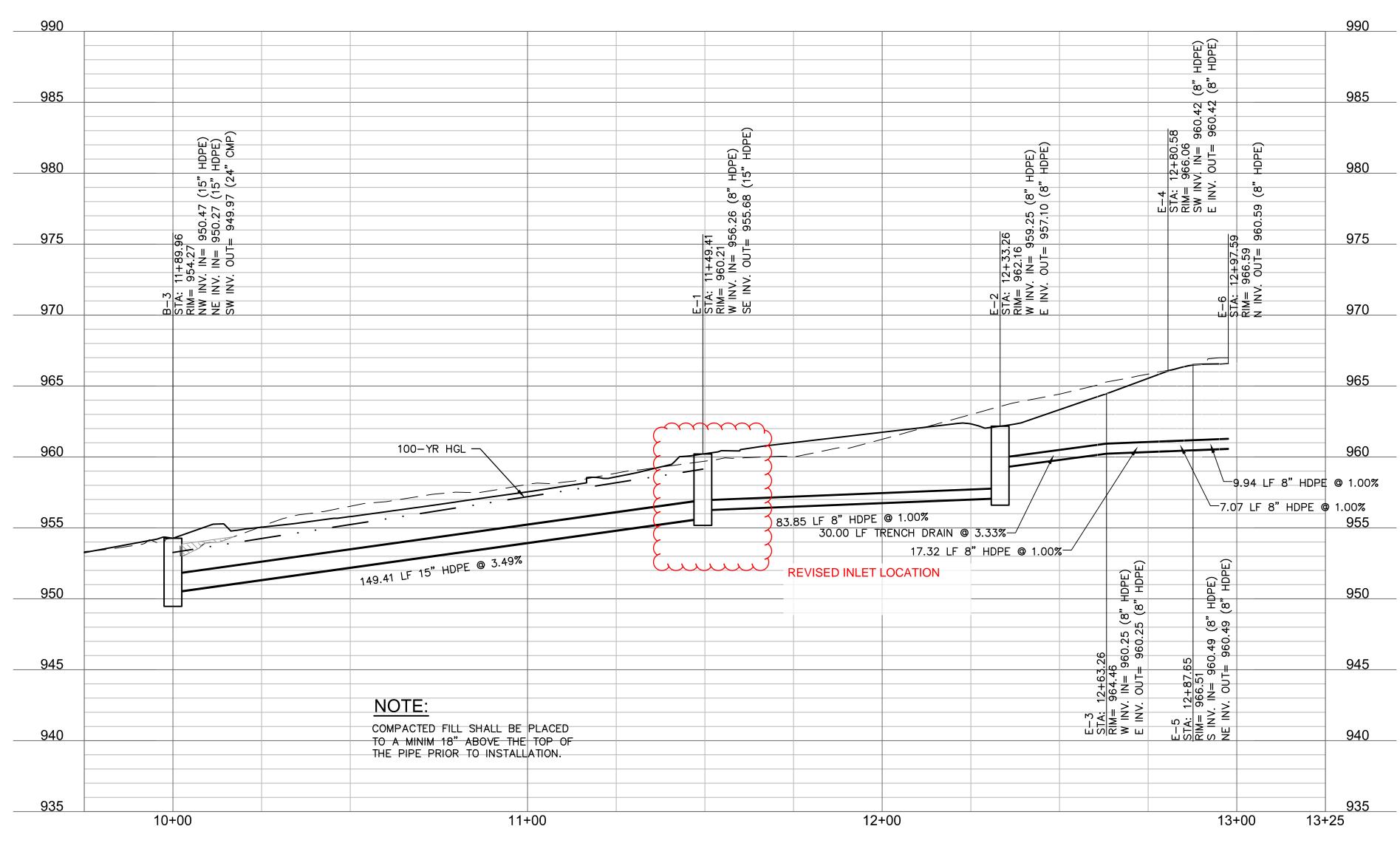


STORM LINE C (9+75 - 11+50)

		985
		980
	<u> </u>	
	HDPE)	075
	(15"	975
	820.50 850.50	
	11+03.86 955.05 (. 0UT= 95	970
	0011+0 001	
		965
		960
		955
100-YR HGL		
		050
		950
103.86 LF 15" HDPE @ 1.75%		
SHALLOW LINE B INTO A2		945
		940
		935
		930
1	11+00	

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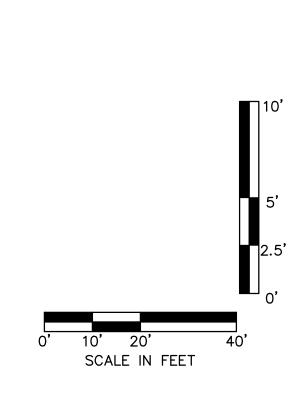




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STORM LINE E (9+75 - 13+25)

	STRUCTURES
ID	DESCRIPTION
B-3	INSTALL STD. 4'X4' GRATE INLET 11+89.96, 0.00' STORM LINE B RIM= 954.27 INV IN = 950.47 (15" HDPE) INV IN = 950.27 (15" HDPE) INV OUT = 949.97 (24" CMP) N: 1001013.366; E: 2817088.293
E-1	INSTALL STD. 6'X4' NON-SETBACK CURB INLET 11+49.41, 0.00' STORM LINE E RIM= 960.21 INV IN = 956.26 (8" HDPE) INV OUT = 955.68 (15" HDPE) N: 1001077.512; E: 2816953.349
E-2	INSTALL ACO FG200 FLOWDRAIN TRENCH DRAIN WTH F660 CLASS E IRON SLOTTED GRATE 12+33.26, 0.00' STORM LINE E RIM= 962.16 INV IN = 959.25 (8" HDPE) INV OUT = 957.10 (8" HDPE) N: 1001074.822; E: 2816869.545
E-3	END TRENCH DRAIN 12+63.26, 0.00' STORM LINE E RIM= 964.46 INV IN = 960.25 (8" HDPE) INV OUT = 960.25 (8" HDPE) N: 1001076.726; E: 2816839.605
E-4	INSTALL 45 DEGREE BEND 12+80.58, 0.00' STORM LINE E RIM= 966.06 INV IN = 960.42 (8" HDPE) INV OUT = 960.42 (8" HDPE) N: 1001077.825; E: 2816822.323
E-5	INSTALL 45 DEGREE BEND 12+87.65, 0.00' STORM LINE E RIM= 966.51 INV IN = 960.49 (8" HDPE) INV OUT = 960.49 (8" HDPE) N: 1001073.153; E: 2816817.015
E-6	CONNECT TO ROOF DRAIN RE: MEP 12+97.59, 0.00' STORM LINE E RIM= 966.59 INV OUT = 960.59 (8" HDPE) N: 1001063.232; E: 2816816.384





STORM SEWER PLAN & PROFILE

TLE: LEES : DB #: B18-03									
		IS: 10 YE	AR STOR		ENT				
STRUC	TURES			RU	NOFF C/	ALCUL	ATIONS		,
FROM	ТО	DIRECT AREA (ACRES)	TOTAL AREA (ACRES)	С	KC (K=1.00)	Tc (MIN)	FLOW TIME (MIN)	INTENSITY (IN/HR)	DESIGN Q (CFS)
A5		0.30		0.90	0.90	5.0	_	7.35	1.98
	A4		0.73	0.75	0.75	5.0	-	7.35	4.02
A 4		0.43		0.89	0.89	5.0	-	7.35	2.81
	A3		1.16	0.78	0.78	5.0	-	7.35	6.65
A3		0.04		0.30	0.30	5.0	-	7.35	0.09
	A2		1.58	0.75	0.75	5.0	-	7.35	8.71
A2		0.45		0.70	0.70	5.0	-	7.35	2.32
	A1		4.72	0.70	0.70	5.0	-	7.35	24.28
A1		0.12		0.30	0.30	5.0	-	7.35	0.26
	A0		4.84	0.67	0.67	5.0	-	7.35	23.83
B4		0.30		0.72	0.72	5.0	-	7.35	1.59
	B3		0.30	0.72	0.72	5.0	-	7.35	1.59
B3		0.81		0.40	0.40	5.0	-	7.35	2.38

						0.0		1.55		
B1		0.14		0.42	0.42	5.0	-	7.35	0.43	
	A1		2.69	0.67	0.67	5.0	-	7.35	13.25	
C1		0.38		0.68	0.68	5.0	-	7.35	1.90	
	A2		0.38	0.68	0.68	5.0	-	7.35	1.90	
D1		0.43		0.89	0.89	5.0	-	7.35	2.81	
	A4		0.43	0.71	0.71	5.0	-	7.35	2.24	
E2		0.19		0.52	0.52	5.0	-	7.35	0.73	
	E1		0.19	0.33	0.33	5.0	-	7.35	0.46	
E1		1.25		0.87	0.87	5.0	-	7.35	7.99	
	B3		1.44	0.83	0.83	5.0	-	7.35	8.78	

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			JRE TABLE																				
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GN CO	NDITION	S: 10 YE	AR STO																				
<u>RUCT</u>	URES	DIRECT			NOFF C			<u>S</u>								1							
ОМ	ТО	AREA	AREA	С	KC (K=1.00)	Tc) (MIN)	FLOW TIME	INTENSITY (IN/HR)	DESIGN Q (CFS)	DESCRIPTION	1 I	PIPE SLOPE	DIA	Q FULL	AREA	V FULL (F/S)	DESIGN V (F/S)	Hw/D	MH TOP ELEVATION	UPSTREAM FLOWLINE	DOWNSTREAM FLOWLINE	DOWNSTREAM WATER	Comments
5		(ACRES) 0.30		0.90	0.90	5.0	(MIN) -	7.35	1.98	EXISTING STRUCTURE	(L.F.)	(%)			KSQ.FT.)				968.63			ELEVATION	EXISTING STRUCTURE TO REMIAN
4	A4	0.43	0.73	0.75	0.75 0.89	5.0		7.35 7.35	4.02	EXISTING 30" CMP 6X4 CURB INLET OF EX. PIPE	88.00	4.05	30	44.83	4.91	9.13	8.71	0.68	967.36	960.13	956.55	958.30	CONSTRU CT BOX OVER EXISTING PIPI
3	A3	0.04	1.16	0.78	0.78 0.30	5.0 5.0	-	7.35	6.65 0.09	EXISTING 30" CMP 4X4 AREA INLET OF EX. PIPE	92.00	4.05	30	44.83	4.91	9.13	10.10	0.70	960.88	956.55	952.84	954.64	CONSTRU CT BOX OVER EXISTING PIP
<u> </u>	A2	0.04	1.58	0.75	0.30	5.0	-	7.35 7.35	8.71	EXISTING 30" CMP	182.00	4.05	30	44.83	4.91	9.13	10.93	0.72		952.84	945.23	947.88	CONSTRUCT BOX OVER EXISTING FIP
2	A1	0.45	4.72	0.70	0.70 0.70	<u>5.0</u> 5.0	-	7.35	2.32	6X4 CURB INLET OF EX. PIPE EXISTING 30" CMP	47.00	4.05	30	44.83	4.91	9.13	14.63	1.06	952.68	945.23	943.58	946.52	CONSTRU CT BOX OVER EXISTING PIP
	4.0	0.12		0.30	0.30	5.0	-	7.35	0.26	5x5 AREA INLET OVER EX. PIPE					3			0.02	947.76	042 59	041.60	045 55	RECONSTRUCT AREA INLET
	A0		4.84	0.67	0.67	5.0	-	7.35	23.83		118.00	1.60	36	49.99	7.07	7.07	10.27	0.82		943.58	941.69	945.55	
ļ	D2	0.30	0.20	0.72	0.72	5.0	-	7.35	1.59	6x4 CURB INLET		0.76	15	10.76			PIPE MATER		955.15	051.15	050.07	051.26	
3	B3	0.81	0.30	0.72	0.72 0.40	<u>5.0</u> 5.0	-	7.35 7.35	1.59 2.38	15 in. HDPE RECONS EX. AREA INLET	32.00	2.76	15	10.76	1.20	HDPE). RE'	VISED CAP M MANNING	ACITY	954.27	951.15	950.27	951.36	RECONSTRUCT AREA INLET
	B3		1.11	0.42	0.42	5.0	-	7.35	3.43	24 in. HDPE	42.00	3.22	24	40.70	3.14	0.013 TO 0.	.024.7.86	0.69		949.97	948.61	950.29	
2	B1	0.00	2.55	0.30	0.30 0.67	5.0 5.0	-	7.35 7.35	0.00	JUNCTION BOX 24 in. HDPE	79.00	3.32	24	41.33	3.14	13.16	11.52	0.99	952.61	948.31	945.70	947.51	CONSTRU CT BOX OVER EXISTING PIP
	A1	0.14	2.69	0.42	0.42 0.67	5.0 5.0	-	7.35 7.35	0.43	5x5 AREA INLET 24 in. HDPE	69.00	1.90	24	31.27	3.14	9.95	9.52	1.02	948.50	945.20	943.88	946.57	
	AI		2.09				-				09.00	1.90	24	51.27	5.14	9.90	9.52	1.02		945.20	943.00	940.37	
	A2	0.38	0.38	0.68	0.68 0.68	5.0 5.0	-	7.35 7.35	1.90 1.90	6x4 CURB INLET 15 in. HDPE	103.00	1.76	15	8.59	1.23	7.00	5.62	0.75	954.82	950.50	948.68	948.01	
		0.43		0.89					2.81										967.36				
	A4	0.43	0.43	0.89	0.89 0.71	5.0 5.0	-	7.35 7.35	2.81	6x4 CURB INLET 15 in. HDPE	48.00	1.76	15	8.59	1.23	7.00	5.90	0.78	307.30	962.50	962.02	958.30	
2		0.19		0.52	0.52	5.0	-	7.35	0.73	TRENCH DRAIN									961.75				
	E1	1.25	0.19	0.33	0.33 0.87	<u>5.0</u> 5.0	-	7.35 7.35	0.46	15 in. HDPE 6x4 CURB INLET	82.00	4.10	12	7.23	0.79	9.21	5.20	0.68	960.23	959.95	956.68	956.67	
1	B3		1.44	0.83	0.83	5.0	-	7.35	8.78	18 in. HDPE	148.00	3.49	18	19.68	1.77	11.13	10.81	1.33		955.68	950.47	951.36	
	B3		1.44			5.0	-	7.35	8.78	18 in. HDPE	148.00	3.49	18	19.68	1.77	11.13	10.81	1.33		955.68	950.47	951.36	
	B3		1.44			5.0	-	7.35	8.78	18 in. HDPE	148.00	3.49	18	19.68	1.77	11.13	10.81	1.33		955.68	950.47	951.36	
1 SEWE	R PIPE ANI) STRUCTL		0.83		5.0	-	7.35	8.78	18 in. HDPE	148.00	3.49	18	19.68	1.77	11.13	10.81	1.33		955.68	950.47	951.36	
1 SEWE LEES SI B18-033	R PIPE ANI UMMIT LIBF 30	D STRUCTU ARY	JRE TABLE	0.83	0.83	5.0		7.35	8.78	18 in. HDPE	148.00	3.49	18	19.68	1.77	11.13	10.81	1.33		955.68	950.47	951.36	
I SEWE LEES SI B18-033 GN CO	R PIPE ANI UMMIT LIBF 30 NDITION	D STRUCTU ARY S: 100 Y	JRE TABLE	0.83	0.83 /ENT				8.78	18 in. HDPE	PIP	E DESIG	<u>S</u> N	19.68		11.13	10.81	1.33		955.68	950.47		
1 SEWE LEES SI B18-033 GN CO RUCT	R PIPE ANI UMMIT LIBF 30 NDITION	D STRUCTU ARY S: 100 Y DIRECT AREA	JRE TABLE	0.83	0.83 /ENT	CALCUI Tc	FLOW TIME				PIPE	E DESIG	SN PIPE	Q FULL	PIPE	V FULL	10.81		MH TOP ELEVATION	UPSTREAM		DOWNSTREAM WATER	Comments
I SEWE LEES SU B18-033 GN CO RUCT	R PIPE ANI UMMIT LIBF 30 NDITION URES TO	D STRUCTU RARY S: 100 Y DIRECT	JRE TABLE EAR STC TOTAL AREA (ACRES)	0.83	0.83 ENT NOFF C KC (K=1.25) 1.00	CALCUI Tc (MIN) 5.0	FLOW	S INTENSITY (IN/HR) 10.32	DESIGN Q (CFS) 3.10	DESCRIPTION EXISTING STRUCTURE	PIPE LENGTH (L.F.)	E DESIC PIPE SLOPE (%)	SN PIPE DIA (IN)	Q FULL (CFS)	PIPE AREA (SQ.FT.)	V FULL (F/S)	DESIGN V (F/S)	Hw/D		UPSTREAM	DOWNSTREAM	DOWNSTREAM WATER ELEVATION	Comments EXISTING STRUCTURE TO REMIAN
SEWE EES SU B18-033 GN CO RUCT	R PIPE ANI UMMIT LIBF 30 NDITION URES	D STRUCTL ARY S: 100 Y DIRECT AREA (ACRES)	JRE TABLE	0.83 0.83 0.83 0.83 0.83 0.83 0.83 0.83	0.83 ENT NOFF C (K=1.25) 1.00 0.94	CALCUI Tc (MIN)	FLOW TIME	S INTENSITY (IN/HR) 10.32 10.32	DESIGN Q (CFS) 3.10 7.06	DESCRIPTION EXISTING STRUCTURE EXISTING 30" CMP	PIPE	E DESIG	SN PIPE	Q FULL	PIPE	V FULL	DESIGN		ELEVATION 968.63	UPSTREAM	DOWNSTREAM	DOWNSTREAM WATER	EXISTING STRUCTURE TO REMIAN
I SEWE LEES SU B18-033 GN CO RUCT	R PIPE ANI UMMIT LIBF 30 NDITION URES TO	D STRUCTL ARY S: 100 Y DIRECT AREA (ACRES) 0.30 0.43	JRE TABLE EAR STC TOTAL AREA (ACRES)	0.83 0.83 0.83 0.83 0.83 0.83 0.90 0.75 0.89 0.78	0.83 ENT NOFF C (K=1.25) 1.00 0.94 1.11 0.98	CALCUI TC (MIN) 5.0 5.0 5.0 5.0 5.0	FLOW TIME	S INTENSITY (IN/HR) 10.32 10.32 10.32 10.32	DESIGN Q (CFS) 3.10 7.06 4.94 11.67	DESCRIPTION EXISTING STRUCTURE EXISTING 30" CMP 6X4 CURB INLET OF EX. PIPE EXISTING 30" CMP	PIPE LENGTH (L.F.)	E DESIC PIPE SLOPE (%)	SN PIPE DIA (IN)	Q FULL (CFS)	PIPE AREA (SQ.FT.)	V FULL (F/S)	DESIGN V (F/S)	Hw/D	ELEVATION 968.63 967.36	UPSTREAM	DOWNSTREAM	DOWNSTREAM WATER ELEVATION	EXISTING STRUCTURE TO REMIAN CONSTRU CT BOX OVER EXISTING PIP
SEWE EES SU B18-033 SN CO RUCT	R PIPE ANI UMMIT LIBF 30 NDITION URES TO A4	D STRUCTU ARY S: 100 Y DIRECT AREA (ACRES) 0.30	JRE TABLE EAR STC TOTAL AREA (ACRES) 0.73	0.83 0.83 0.83 0.83 0.83 0.83	0.83 ENT NOFF C (K=1.25) 1.00 0.94 1.11	EALCUI TC (MIN) 5.0 5.0 5.0 5.0	FLOW TIME	S INTENSITY (IN/HR) 10.32 10.32 10.32	DESIGN Q (CFS) 3.10 7.06 4.94	DESCRIPTION EXISTING STRUCTURE EXISTING 30" CMP 6X4 CURB INLET OF EX. PIPE	PIPE LENGTH (L.F.) 81.00	E DESIG PIPE SLOPE (%) 4.05	SN PIPE DIA (IN) 30	Q FULL (CFS) 44.83	PIPE AREA (SQ.FT.) 4.91	V FULL (F/S) 9.13	DESIGN V (F/S) 10.28	Hw/D	ELEVATION 968.63	UPSTREAM FLOWLINE 960.13	DOWNSTREAM FLOWLINE 956.55	DOWNSTREAM WATER ELEVATION 958.45	EXISTING STRUCTURE TO REMIAN CONSTRU CT BOX OVER EXISTING PIP
SEWE EES SU B18-033 GN CO RUCT	R PIPE ANI UMMIT LIBF 30 NDITION URES TO A4 A3 A2	D STRUCTL ARY S: 100 Y DIRECT AREA (ACRES) 0.30 0.43	JRE TABLE FAR STC TOTAL AREA (ACRES) 0.73 1.16 1.58	0.83 0.83 0.83 0.75 0.90 0.75 0.89 0.78 0.30 0.75 0.30 0.75 0.70	0.83 ENT NOFF C (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.94 0.88	CALCUI TC (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	FLOW TIME	S INTENSITY (IN/HR) 10.32 10.32 10.32 10.32 10.32 10.32 10.32	DESIGN Q (CFS) 3.10 7.06 4.94 11.67 0.15 15.29 4.06	DESCRIPTION EXISTING STRUCTURE EXISTING 30" CMP 6X4 CURB INLET OF EX. PIPE EXISTING 30" CMP 4X4 AREA INLET OF EX. PIPE EXISTING 30" CMP 6X4 CURB INLET OF EX. PIPE	PIPE LENGTH (L.F.) 81.00 92.00 202.00	E DESIC PIPE SLOPE (%) 4.05 4.05	SN PIPE DIA (IN) 30 30 30	Q FULL (CFS) 44.83 44.83	PIPE AREA (SQ.FT.) 4.91 4.91 4.91	V FULL (F/S) 9.13 9.13 9.13	DESIGN V (F/S) 10.28 11.90 12.85	Hw/D 0.70 0.76 0.82	ELEVATION 968.63 967.36	UPSTREAM FLOWLINE 960.13 956.55 952.84	DOWNSTREAM FLOWLINE 956.55 952.84 945.23	DOWNSTREAM WATER ELEVATION 958.45 1 954.90 1 949.91	EXISTING STRUCTURE TO REMIAN CONSTRU CT BOX OVER EXISTING PIP CONSTRU CT BOX OVER EXISTING PIP
SEWE EES SU B18-033 GN CO RUCT	R PIPE ANI UMMIT LIBF 30 NDITION URES TO A4 A3 A2 A1	D STRUCTL ARY S: 100 Y DIRECT AREA (ACRES) 0.30 0.43 0.04	JRE TABLE FAR STC TOTAL AREA (ACRES) 0.73 1.16 1.58 4.72	0.83 0.83 0.83 0.83 0.75 0.90 0.75 0.89 0.75 0.89 0.78 0.30 0.75 0.70 0.70 0.70 0.70 0.30	0.83 ENT NOFF C (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.94 0.88 0.88 0.38	CALCUI TC (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	FLOW TIME	S INTENSITY (IN/HR) 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32	DESIGN Q (CFS) 3.10 7.06 4.94 11.67 0.15 15.29 4.06 42.62 0.46	DESCRIPTION EXISTING STRUCTURE EXISTING 30" CMP 6X4 CURB INLET OF EX. PIPE EXISTING 30" CMP 4X4 AREA INLET OF EX. PIPE EXISTING 30" CMP 6X4 CURB INLET OF EX. PIPE EXISTING 30" CMP 5x5 AREA INLET OVER EX. PIPE	PIPE LENGTH (IF.) 81.00 92.00 202.00 27.00	E DESIC PIPE SLOPE (%) 4.05 4.05 4.05	SN PIPE DIA (IN) 30 30 30 30 30	Q FULL (CFS) 44.83 44.83 44.83	PIPE AREA (SQ.FT.) 4.91 4.91 4.91	V FULL (F/S) 9.13 9.13 9.13 9.13	DESIGN V (F/S) 10.28 11.90 12.85 16.95	Hw/D 0.70 0.76 0.82 1.87	ELEVATION 968.63 967.36 960.88	UPSTREAM FLOWLINE 960.13 956.55 952.84 945.23	DOWNSTREAM FLOWLINE 956.55 952.84 945.23 943.58	Image: Constraint of the second state of the second sta	EXISTING STRUCTURE TO REMIAN CONSTRU CT BOX OVER EXISTING PIP CONSTRU CT BOX OVER EXISTING PIP
I SEWE LEES SU B18-033 GN CO RUCT M	R PIPE ANI UMMIT LIBF 30 NDITION URES TO A4 A3 A2	D STRUCTU ARY S: 100 Y DIRECT AREA (ACRES) 0.30 0.43 0.43	JRE TABLE FAR STC TOTAL AREA (ACRES) 0.73 1.16 1.58	0.83 0.83 0.83 0.83 0.83 0.75 0.90 0.75 0.89 0.75 0.89 0.78 0.30 0.75 0.70 0.70 0.70	0.83 ENT NOFF C (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.38 0.94 0.88 0.88	CALCUI TC (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	FLOW TIME	S INTENSITY (IN/HR) 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32	DESIGN Q (CFS) 3.10 7.06 4.94 11.67 0.15 15.29 4.06 42.62	DESCRIPTION EXISTING STRUCTURE EXISTING 30" CMP 6X4 CURB INLET OF EX. PIPE EXISTING 30" CMP 4X4 AREA INLET OF EX. PIPE EXISTING 30" CMP 6X4 CURB INLET OF EX. PIPE EXISTING 30" CMP 5x5 AREA INLET OVER EX. PIPE EXISTING 36" EQ CMP PIPE	PIPE LENGTH (IF.) 81.00 92.00 202.00 202.00 27.00	E DESIC PIPE SLOPE (%) 4.05 4.05 4.05 4.05 1.60	EN PIPE DIA (IN) 30 30 30 30 30 30 30 30 30 30	Q FULL (CFS) 44.83 44.83 44.83 44.83 44.83	PIPE AREA (SQ.FT.) 4.91 4.91 4.91	V FULL (F/S) 9.13 9.13 9.13	DESIGN V (F/S) 10.28 11.90 12.85	Hw/D 0.70 0.76 0.82	ELEVATION 968.63 967.36 960.88 952.68	UPSTREAM FLOWLINE 960.13 956.55 952.84	DOWNSTREAM FLOWLINE 956.55 952.84 945.23	DOWNSTREAM WATER ELEVATION 958.45 1 954.90 1 949.91	EXISTING STRUCTURE TO REMIAN CONSTRU CT BOX OVER EXISTING PIP CONSTRU CT BOX OVER EXISTING PIP CONSTRU CT BOX OVER EXISTING PIP
1 SEWE LEES SU B18-033 GN CO RUCT DM 5 4	R PIPE ANI UMMIT LIBF 30 NDITION URES TO A4 A3 A2 A1 A0	D STRUCTU ARY S: 100 Y DIRECT AREA (ACRES) 0.30 0.43 0.43	JRE TABLE FAR STC TOTAL AREA (ACRES) 0.73 1.16 1.58 4.72 4.84	0.83 0.83 0.83 0.75 0.90 0.75 0.90 0.75 0.89 0.78 0.30 0.75 0.70 0.70 0.70 0.70 0.70 0.70 0.7	0.83 ENT NOFF C (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.94 0.88 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38	Calcul Tc (MIN) 5.0	FLOW TIME	S INTENSITY (IN/HR) 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32	DESIGN Q (CFS) 3.10 7.06 4.94 11.67 0.15 15.29 4.06 42.62 0.46 41.83 2.79	DESCRIPTION EXISTING STRUCTURE EXISTING STRUCTURE EXISTING 30" CMP 6X4 CURB INLET OF EX. PIPE EXISTING 30" CMP 4X4 AREA INLET OF EX. PIPE EXISTING 30" CMP 6X4 CURB INLET OF EX. PIPE EXISTING 30" CMP 5x5 AREA INLET OVER EX. PIPE EXISTING 36" EQ CMP PIPE	PIPE LENGTH (IF.) 81.00 92.00 202.00 27.00 118.00	E DESIC PIPE SLOPE (%) 4.05 4.05 4.05 4.05 1.60	PIPE DIA (IN) 30 30 30 30 30 30 30 30 30 30 30 30	Q FULL (CFS) 44.83 44.83 44.83 44.83 44.83	PIPE AREA (SQ.FT.) 4.91 4.91 4.91 4.91 7.07 REVIS	V FULL (F/S) 9.13 9.13 9.13 9.13 9.13 5.13 9.13 9.13	DESIGN V (F/S) 10.28 11.90 12.85 16.95 11.91	Hw/D 0.70 0.70 0.82 1.87 1.14	ELEVATION 968.63 967.36 960.88 952.68	UPSTREAM FLOWLINE 960.13 956.55 952.84 945.23 943.58	DOWNSTREAM FLOWLINE 956.55 952.84 945.23 943.58 941.69	Image: Control of the second state	EXISTING STRUCTURE TO REMIAN CONSTRU CT BOX OVER EXISTING PIP CONSTRU CT BOX OVER EXISTING PIP CONSTRU CT BOX OVER EXISTING PIP
1 SEWE LEES SU B18-033 GN CO RUCT DM 5 	R PIPE ANI UMMIT LIBF 30 NDITION URES TO A4 A3 A2 A1	D STRUCTU ARY S: 100 Y DIRECT AREA (ACRES) 0.30 0.43 0.43 0.45 0.12	JRE TABLE FAR STC TOTAL AREA (ACRES) 0.73 1.16 1.58 4.72	0.83 0.83 0.83 0.75 0.90 0.75 0.89 0.75 0.89 0.75 0.89 0.75 0.70 0.70 0.70 0.70 0.70 0.70 0.70	0.83 ENT NOFF C (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.38 0.94 0.88 0.88 0.88 0.88 0.88 0.88	EXALCUI TC (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	FLOW TIME	S INTENSITY (IN/HR) 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32	DESIGN Q (CFS) 3.10 7.06 4.94 11.67 0.15 15.29 4.06 42.62 0.46 41.83	DESCRIPTION EXISTING STRUCTURE EXISTING 30" CMP 6X4 CURB INLET OF EX. PIPE EXISTING 30" CMP 4X4 AREA INLET OF EX. PIPE EXISTING 30" CMP 6X4 CURB INLET OF EX. PIPE EXISTING 30" CMP 5x5 AREA INLET OVER EX. PIPE EXISTING 36" EQ CMP PIPE	PIPE LENGTH (IF.) 81.00 92.00 202.00 202.00 27.00	E DESIC PIPE SLOPE (%) 4.05 4.05 4.05 4.05 1.60 2.76	EN PIPE DIA (IN) 30 30 30 30 30 30 30 30 30 30	Q FULL (CFS) 44.83 44.83 44.83 44.83 44.83 49.99	PIPE AREA (SQ.FT.) 4.91 4.91 4.91 4.91 7.07 7.07 REVIS 1EXIST HDPE	V FULL (F/S) 9.13 9.13 9.13 9.13 9.13 9.13 9.13 5.13 9.13 9.13 9.13	DESIGN V (F/S) 10.28 11.90 12.85 16.95 11.91 MATERIAL C TO CMP (FF CAPACITY	Hw/D 0.70 0.70 0.76 0.82 1.87 1.14 N ROM 83	ELEVATION 968.63 967.36 960.88 952.68 947.76	UPSTREAM FLOWLINE 960.13 956.55 952.84 945.23	DOWNSTREAM FLOWLINE 956.55 952.84 945.23 943.58 943.58	Image: Sector of the sector	EXISTING STRUCTURE TO REMIAN CONSTRU CT BOX OVER EXISTING PIP CONSTRU CT BOX OVER EXISTING PIP CONSTRU CT BOX OVER EXISTING PIP
1 SEWE LEES SU B18-033 GN CO RUCT DM 5 	R PIPE ANI UMMIT LIBF 30 NDITION URES TO A4 A3 A2 A1 A0	D STRUCTL ARY S: 100 Y DIRECT AREA (ACRES) 0.30 0.43 0.43 0.43 0.43 0.45 0.45 0.12 0.30	JRE TABLE FAR STC TOTAL AREA (ACRES) 0.73 1.16 1.58 4.72 4.84	0.83 0.83 0.83 0.75 0.90 0.75 0.90 0.75 0.89 0.78 0.30 0.75 0.70 0.70 0.70 0.70 0.70 0.70 0.7	0.83 ENT NOFF C KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.94 0.38 0.50 0.50 0.53	Contract Contract Tc Tc (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	FLOW TIME	S INTENSITY (IN/HR) 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32	DESIGN Q (CFS) 3.10 7.06 4.94 11.67 0.15 15.29 4.06 42.62 0.46 41.83 2.79 2.79 2.79 2.79 4.18 6.01	DESCRIPTION EXISTING STRUCTURE EXISTING 30" CMP 6X4 CURB INLET OF EX. PIPE EXISTING 30" CMP 4X4 AREA INLET OF EX. PIPE EXISTING 30" CMP 6X4 CURB INLET OF EX. PIPE EXISTING 30" CMP 5x5 AREA INLET OVER EX. PIPE EXISTING 36" EQ CMP PIPE EXISTING 36" EQ CMP PIPE 6X4 CURB INLET 15 in. HDPE RECONS EX. AREA INLET 24 in. HDPE	PIPE LENGTH (IF.) 81.00 92.00 202.00 27.00 118.00	E DESIC PIPE SLOPE (%) 4.05 4.05 4.05 4.05 1.60	PIPE DIA (IN) 30 30 30 30 30 30 30 30 30 30 30 30	Q FULL (CFS) 44.83 44.83 44.83 44.83 44.83	PIPE AREA (SQ.FT.) 4.91 4.91 4.91 4.91 7.07 7.07 REVIS 1EXIST HDPE CALC	V FULL (F/S) 9.13 9.13 9.13 9.13 9.13 9.13 9.13 5.13 9.13 9.13 9.13	DESIGN V (F/S) 10.28 11.90 12.85 16.95 16.95 11.91 MATERIAL C TO CMP (FF D CAPACITY NNINGS N	Hw/D 0.70 0.70 0.76 0.82 1.87 1.14 N ROM 83	ELEVATION 968.63 967.36 960.88 952.68 952.68 947.76 955.15 955.15	UPSTREAM FLOWLINE 960.13 956.55 952.84 945.23 943.58	DOWNSTREAM FLOWLINE 956.55 952.84 945.23 943.58 941.69	Image: Control of the second state	EXISTING STRUCTURE TO REMIAN CONSTRU CT BOX OVER EXISTING PIP CONSTRU CT BOX OVER EXISTING PIP CONSTRU CT BOX OVER EXISTING PIP RECONSTRUCT AREA INLET RECONSTRUCT AREA INLET
I SEWE LEES SU B18-033 GN CO RUCT M 5 	R PIPE ANI UMMIT LIBF 30 NDITION URES TO A4 A3 A2 A1 A0 B3	D STRUCTL ARY S: 100 Y DIRECT AREA (ACRES) 0.30 0.43 0.43 0.43 0.45 0.12 0.12 0.30 0.81	JRE TABLE EAR STC TOTAL AREA (ACRES) 0.73 1.16 1.58 4.72 4.84 0.30	0.83 0.83 0.83 0.75 0.90 0.75 0.90 0.75 0.70 0.75 0.70 0.70 0.70 0.70 0.7	0.83 ENT NOFF C KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.94 0.38 0.50 0.5	Calcul Tc Tc S.0 5.0	FLOW TIME	S INTENSITY (IN/HR) 10.32 10.3	DESIGN Q (CFS) 3.10 7.06 4.94 11.67 0.15 15.29 4.06 42.62 0.46 41.83 2.79 2.79 4.18 6.01 0.00 22.04	DESCRIPTION EXISTING STRUCTURE EXISTING 30" CMP 6X4 CURB INLET OF EX. PIPE EXISTING 30" CMP 4X4 AREA INLET OF EX. PIPE EXISTING 30" CMP 6X4 CURB INLET OF EX. PIPE EXISTING 30" CMP 5x5 AREA INLET OF EX. PIPE EXISTING 30" CMP 5x5 AREA INLET OVER EX. PIPE EXISTING 36" EQ CMP PIPE 6X4 CURB INLET 15 in. HDPE RECONS EX. AREA INLET 24 in. HDPE JUNCTION BOX 24 in. HDPE	PIPE LENGTH (L.F.) 81.00 92.00 202.00 202.00 118.00 118.00	E DESIC PIPE SLOPE (%) 4.05 4.05 4.05 4.05 1.60 2.76	SN PIPE DIA (IN) 30 30 30 30 30 30 30 30 30 30 30 30 30	Q FULL (CFS) 44.83 44.83 44.83 44.83 44.83 49.99	PIPE AREA (SQ.FT.) 4.91 4.91 4.91 4.91 7.07 7.07 REVIS 1EXIST HDPE CALC	V FULL (F/S) 9.13 9.13 9.13 9.13 9.13 9.13 9.13 9.13	DESIGN V (F/S) 10.28 11.90 12.85 16.95 16.95 11.91 MATERIAL C TO CMP (FF D CAPACITY NNINGS N	Hw/D 0.70 0.70 0.76 0.82 1.87 1.14 N ROM 83	ELEVATION 968.63 967.36 960.88 952.68 947.76 955.15 955.15 954.27 952.61	UPSTREAM FLOWLINE 960.13 956.55 952.84 945.23 943.58 943.58	DOWNSTREAM FLOWLINE 956.55 952.84 945.23 943.58 943.58	Image: Sector of the sector	EXISTING STRUCTURE TO REMIAN CONSTRU CT BOX OVER EXISTING PIP CONSTRU CT BOX OVER EXISTING PIP CONSTRU CT BOX OVER EXISTING PIP RECONSTRUCT AREA INLET RECONSTRUCT AREA INLET
1 SEWE LEES SI B18-033	R PIPE ANI UMMIT LIBF 30 NDITION URES TO A4 A3 A2 A1 A0 B3 B3	D STRUCTL ARY S: 100 Y DIRECT AREA (ACRES) 0.30 0.43 0.43 0.43 0.43 0.45 0.45 0.12 0.30	JRE TABLE JRE TABLE TOTAL AREA (ACRES) 0.73 1.16 1.58 4.72 4.84 0.30 1.11	0.83 0.83 0.83 0.75 0.90 0.75 0.89 0.75 0.89 0.75 0.70 0.75 0.70 0.70 0.70 0.70 0.70	0.83 ENT NOFF C KC (K=1.25) 1.00 0.94 1.11 0.98 0.3	EXECUT TC (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	FLOW TIME	S INTENSITY (IN/HR) 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32	DESIGN Q (CFS) 3.10 7.06 4.94 11.67 0.15 15.29 4.06 42.62 0.46 41.83 2.79 2.79 2.79 2.79 4.18 6.01 0.00	DESCRIPTION EXISTING STRUCTURE EXISTING STRUCTURE EXISTING 30" CMP 6X4 CURB INLET OF EX. PIPE EXISTING 30" CMP 4X4 AREA INLET OF EX. PIPE EXISTING 30" CMP 6X4 CURB INLET OF EX. PIPE EXISTING 30" CMP 5x5 AREA INLET OVER EX. PIPE EXISTING 36" EQ CMP PIPE EXISTING 36" EQ CMP PIPE 6X4 CURB INLET 15 in. HDPE RECONS EX. AREA INLET 24 in. HDPE JUNCTION BOX	PIPE LENGTH (L.F.) 81.00 92.00 202.00 202.00 27.00 118.00 110.00 55.00	E DESIC PIPE SLOPE (%) 4.05 4.05 4.05 4.05 4.05 1.60 2.76 3.22	SN PIPE DIA (IN) 30 30 30 30 30 30 30 30 30 30 30 30 30	Q FULL (CFS) 44.83 44.83 44.83 44.83 44.83 49.99 10.76 40.70	PIPE AREA (SQ.FT.) 4.91 4.91 4.91 4.91 4.91 7.07 7.07 REVIS 1EXIST HDPE 3CALC 0.013	V FULL (F/S) 9.13 9.13 9.13 9.13 9.13 9.13 9.13 9.13	DESIGN V (F/S) 10.28 11.90 12.85 16.95 11.91 MATERIAL O CAPACIT NNINGS N	Hw/D 0.70 0.70 0.76 0.82 1.87 1.14 N ROM 83 Y OF0.74	ELEVATION 968.63 967.36 960.88 952.68 952.68 947.76 955.15 955.15	UPSTREAM FLOWLINE 960.13 956.55 952.84 943.58 943.58 943.58	DOWNSTREAM FLOWLINE 956.55 956.55 952.84 945.23 945.23 943.58 943.58	Image: Sector of the sector	EXISTING STRUCTURE TO REMIAN CONSTRU CT BOX OVER EXISTING PIPE CONSTRU CT BOX OVER EXISTING PIPE CONSTRU CT BOX OVER EXISTING PIPE RECONSTRUCT AREA INLET
1 SEWE LEES SU B18-033 GN CO RUCT DM 5 1 2 1 3 2 1 4 3 2 1 4 3 2 1 4 3 2 1 4 3 2 1 4 3 3 2 1 4 3 3 2 1 4 3 3 1 2 1 4 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R PIPE ANI UMMIT LIBF 30 NDITION URES TO A4 A3 A2 A1 A1 A0 B3 B3 B3 B1	D STRUCTU ARY S: 100 Y DIRECT AREA (ACRES) 0.30 0.43 0.43 0.43 0.43 0.45 0.45 0.12 0.30 0.81 0.30 0.81	JRE TABLE JRE TABLE TOTAL AREA (ACRES) 0.73 1.16 1.58 4.72 4.84 0.30 1.11 2.55	0.83 0.83 0.83 0.75 0.90 0.75 0.90 0.75 0.70 0.75 0.70 0.70 0.70 0.70 0.7	0.83 ENT NOFF C KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.94 0.38 0.50 0.50 0.53 0.38 0.38 0.38 0.38 0.53 0.38 0.38 0.38 0.53 0.38 0.38 0.38 0.53 0.38 0.38 0.38 0.38 0.50 0.53 0.38 0.38 0.38 0.38 0.38 0.38 0.53 0.38 0.38 0.38 0.38 0.50 0.50 0.53 0.38 0.38 0.38 0.38 0.50 0.50 0.53 0.38 0.38 0.38 0.38 0.50 0.50 0.53 0.53 0.84 0.53 0.84	Calcul Tc 0 5.0 5.0 5.0	FLOW TIME	S INTENSITY (IN/HR) 10.32 10.3	DESIGN Q (CFS) 3.10 7.06 4.94 11.67 0.15 15.29 4.06 42.62 0.46 41.83 2.79 2.79 4.18 6.01 0.00 22.04 0.76 23.25	DESCRIPTION EXISTING STRUCTURE EXISTING 30" CMP 6X4 CURB INLET OF EX. PIPE EXISTING 30" CMP 4X4 AREA INLET OF EX. PIPE EXISTING 30" CMP 6X4 CURB INLET OF EX. PIPE EXISTING 30" CMP 5x5 AREA INLET OVER EX. PIPE EXISTING 36" EQ CMP PIPE EXISTING 36" EQ CMP PIPE 6X4 CURB INLET 15 in. HDPE RECONS EX. AREA INLET 24 in. HDPE JUNCTION BOX 24 in. HDPE CURB INLET 24 in. HDPE	PIPE LENGTH (L.F.) 81.00 92.00 202.00 202.00 27.00 118.00 118.00 55.00 67.00	E DESIC PIPE SLOPE (%) 4.05 4.05 4.05 4.05 1.60 2.76 3.22 3.32	SN PIPE DIA (IN) 30 30 30 30 30 30 30 30 30 30 30 30 30	Q FULL (CFS) 44.83 44.83 44.83 44.83 44.83 44.83 44.83 44.83 44.83 44.83 44.83 44.83 44.83 44.83 44.83 44.83	PIPE AREA (SQ.FT.) 4.91 4.91 4.91 4.91 7.07 7.07 REVIS 1EXIS HDPE , CALC 0.013 3.14	V FULL (F/S) 9.13 9.13 9.13 9.13 9.13 9.13 9.13 9.13	DESIGN V (F/S) 10.28 11.90 12.85 16.95 16.95 11.91 MATERIAL O TO CMP (FF D CAPACITY NNINGS N 13.34	Hw/D 0.70 0.70 0.76 0.82 1.87 1.14 N 0F0.74 1.65	ELEVATION 968.63 967.36 960.88 952.68 955.15 955.15 954.27 952.61 948.50	UPSTREAM FLOWLINE 960.13 956.55 952.84 945.23 943.58 943.58 943.58	DOWNSTREAM FLOWLINE 956.55 956.55 952.84 945.23 943.58 943.58 943.58	Image: Sector of the sector	EXISTING STRUCTURE TO REMIAN CONSTRU CT BOX OVER EXISTING PIP CONSTRU CT BOX OVER EXISTING PIP CONSTRU CT BOX OVER EXISTING PIP RECONSTRUCT AREA INLET RECONSTRUCT AREA INLET
A SEWE LEES SU B18-033 GN CO RUCT DM 5 4 3 2 1 4 3 2 1 4 3 2	R PIPE ANI UMMIT LIBF 30 NDITION URES TO A4 A3 A2 A1 A1 A0 B3 B3 B3 B1	D STRUCTL ARY S: 100 Y DIRECT AREA (ACRES) 0.30 0.43 0.43 0.43 0.45 0.12 0.12 0.30 0.81	JRE TABLE JRE TABLE TOTAL AREA (ACRES) 0.73 1.16 1.58 4.72 4.84 0.30 1.11 2.55	0.83 0.83 0.83 0.75 0.90 0.75 0.75 0.75 0.70 0.75 0.70 0.70 0.7	0.83 ENT NOFF C KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.94 0.38 0.50 0.50 0.53 0.38 0.38 0.38 0.53 0.38 0.38 0.53 0.53 0.53 0.53 0.53	CALCUI TC (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	FLOW TIME	S INTENSITY (IN/HR) 10.32 10	DESIGN Q (CFS) 3.10 7.06 4.94 11.67 0.15 15.29 4.06 42.62 0.46 41.83 2.79 2.79 2.79 4.18 6.01 0.00 22.04 0.76	DESCRIPTION EXISTING STRUCTURE EXISTING 30" CMP 6X4 CURB INLET OF EX. PIPE EXISTING 30" CMP 4X4 AREA INLET OF EX. PIPE EXISTING 30" CMP 6X4 CURB INLET OF EX. PIPE EXISTING 30" CMP 5x5 AREA INLET OF EX. PIPE EXISTING 36" EQ CMP PIPE	PIPE LENGTH (L.F.) 81.00 92.00 202.00 202.00 27.00 118.00 118.00 55.00 67.00	E DESIC PIPE SLOPE (%) 4.05 4.05 4.05 4.05 1.60 2.76 3.22 3.32	SN PIPE DIA (IN) 30 30 30 30 30 30 30 30 30 30 30 30 30	Q FULL (CFS) 44.83 44.83 44.83 44.83 44.83 44.83 44.83 44.83 44.83 44.83 44.83 44.83 44.83 44.83 44.83 44.83	PIPE AREA (SQ.FT.) 4.91 4.91 4.91 4.91 7.07 7.07 REVIS 1EXIS HDPE , CALC 0.013 3.14	V FULL (F/S) 9.13 9.13 9.13 9.13 9.13 9.13 9.13 9.13	DESIGN V (F/S) 10.28 11.90 12.85 16.95 16.95 11.91 MATERIAL O TO CMP (FF D CAPACITY NNINGS N 13.34	Hw/D 0.70 0.70 0.76 0.82 1.87 1.14 N 0F0.74 1.65	ELEVATION 968.63 967.36 960.88 952.68 947.76 955.15 955.15 954.27 952.61	UPSTREAM FLOWLINE 960.13 956.55 952.84 945.23 943.58 943.58 943.58	DOWNSTREAM FLOWLINE 956.55 956.55 952.84 945.23 943.58 943.58 943.58	Image: Sector of the sector	EXISTING STRUCTURE TO REMIAN CONSTRU CT BOX OVER EXISTING PIP CONSTRU CT BOX OVER EXISTING PIP CONSTRU CT BOX OVER EXISTING PIP RECONSTRUCT AREA INLET RECONSTRUCT AREA INLET
1 SEWE LEES SU B18-033 GN CO RUCT DM 5 1 2 1 3 2 1 4 3 2 1 4 3 2 1 4 3 2 1 4 3 2 1 4 3 3 2 1 4 3 3 2 1 4 3 3 1 2 1 4 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R PIPE ANI UMMIT LIBF 30 NDITION URES TO A4 A3 A2 A1 A1 A0 B3 B3 B3 B1 A1 A1 A1	D STRUCTU ARY S: 100 Y DIRECT AREA (ACRES) 0.30 0.43 0.43 0.43 0.43 0.45 0.45 0.12 0.30 0.81 0.30 0.81	JRE TABLE JRE TABLE TOTAL AREA (ACRES) 0.73 0.73 1.16 1.58 4.72 4.84 0.30 1.11 2.55 2.69 0.38	0.83 0.83 0.83 0.83 0.75 0.90 0.75 0.90 0.75 0.75 0.70 0.75 0.70 0.70 0.75 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.72 0.67 0.72 0.67 0.72 0.67 0.72 0.67 0.72 0.67 0.72 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.89	0.83 ENT NOFF C KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.50 0.50 0.53 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.53 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.50 0.50 0.53 0.38 0.38 0.38 0.38 0.53 0.38 0.84 0.53 0.85	EALCUI TC (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	FLOW TIME	S INTENSITY (IN/HR) 10.32 10	DESIGN Q (CFS) 3.10 7.06 4.94 11.67 0.15 15.29 4.06 42.62 0.46 41.83 2.79 2.79 2.79 2.79 2.79 4.18 6.01 0.00 22.04 0.76 23.25 3.33 3.33	DESCRIPTION EXISTING STRUCTURE EXISTING 30" CMP 6X4 CURB INLET OF EX. PIPE EXISTING 30" CMP 4X4 AREA INLET OF EX. PIPE EXISTING 30" CMP 6X4 CURB INLET OF EX. PIPE EXISTING 30" CMP 5x5 AREA INLET OVER EX. PIPE EXISTING 36" EQ CMP PIPE 6X4 CURB INLET 15 in. HDPE RECONS EX. AREA INLET 24 in. HDPE JUNCTION BOX 24 in. HDPE CURB INLET 24 in. HDPE 6X4 CURB INLET 15 in. HDPE	PIPE LENGTH (L.F.) 81.00 92.00 202.00 202.00 202.00 118.00 118.00 55.00 67.00 69.00	E DESIC PIPE SLOPE (%) 4.05 4.05 4.05 4.05 1.60 2.76 3.22 3.32 1.90 1.76	PIPE DIA (IN) 30 30 30 30 30 30 30 30 30 30 30 30 30	Q FULL (CFS) 44.83 44.83 44.83 44.83 44.83 49.99 10.76 40.70 41.33 31.27 8.59	PIPE AREA (SQ.FT.) 4.91 4.91 4.91 4.91 7.07 7.07 REVIS 1EXIST HDPE 3CALC 3.14 3.14 3.14	V FULL (F/S) 9.13 9.13 9.13 9.13 9.13 9.13 9.13 9.13	DESIGN V (F/S) 10.28 11.90 12.85 16.95 11.91 MATERIAL C TO CMP (FF D CAPACITY NNINGS N 13.34 10.88 6.56	Hw/D 0.70 0.70 0.76 0.82 1.87 1.14 N COM 83 OF0.74 1.65 1.76 1.76	ELEVATION 968.63 967.36 960.88 952.68 955.15 955.15 954.27 952.61 948.50	UPSTREAM FLOWLINE 960.13 956.55 955.55 952.84 943.58 943.58 943.58 943.58 943.58 943.58 943.58	Image: Constraint of the second stress of		EXISTING STRUCTURE TO REMIAN CONSTRU CT BOX OVER EXISTING PIP CONSTRU CT BOX OVER EXISTING PIP CONSTRU CT BOX OVER EXISTING PIP RECONSTRUCT AREA INLET RECONSTRUCT AREA INLET
	R PIPE ANI UMMIT LIBF 30 NDITION URES TO A4 A3 A2 A1 A1 A0 B3 B3 B3 B1 A1	D STRUCTU ARY S: 100 Y DIRECT AREA (ACRES) 0.30 0.43 0.43 0.43 0.43 0.45 0.45 0.12 0.30 0.81 0.30 0.81 0.00 0.14	JRE TABLE JRE TABLE TOTAL AREA (ACRES) 0.73 0.73 1.16 1.58 4.72 4.84 0.30 1.11 2.55 2.69	0.83 0.83 0.83 0.75 0.75 0.90 0.75 0.75 0.70 0.75 0.70 0.75 0.70 0.70	0.83 ENT NOFF C KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.94 0.38 0.50 0.50 0.50 0.53 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.50 0.50 0.50 0.53 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.50 0.50 0.53 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.50 0.50 0.53 0.38 0.38 0.38 0.38 0.53 0.38 0.38 0.53 0.38 0.53 0.55 0.53 0.55	CALCUI Tc (MIN) 5.0	FLOW TIME	S INTENSITY (IN/HR) 10.32	DESIGN Q (CFS) 3.10 7.06 4.94 11.67 0.15 15.29 4.06 42.62 0.46 41.83 2.79 2.79 2.79 2.79 3.10 3.33 3.33 3.33	DESCRIPTION EXISTING STRUCTURE EXISTING 30" CMP 6X4 CURB INLET OF EX. PIPE EXISTING 30" CMP 4X4 AREA INLET OF EX. PIPE EXISTING 30" CMP 6X4 CURB INLET OF EX. PIPE EXISTING 30" CMP 5x5 AREA INLET OVER EX. PIPE EXISTING 36" EQ CMP PIPE EXISTING 36" EQ CMP PIPE 6X4 CORB INLET 15 in. HDPE RECONS EX. AREA INLET 24 in. HDPE CURB INLET 24 in. HDPE CURB INLET 24 in. HDPE	PIPE LENGTH (L.F.) 81.00 92.00 202.00 202.00 202.00 118.00 118.00 55.00 67.00	E DESIC PIPE SLOPE (%) 4.05 4.05 4.05 4.05 1.60 2.76 3.22 3.32 1.90	SN PIPE DIA (IN) 30 30 30 30 30 30 30 30 30 30 30 30 30	Q FULL (CFS) 44.83 44.83 44.83 44.83 44.83 44.83 49.99 10.76 40.70 41.33 31.27	PIPE AREA (SQ.FT.) 4.91 4.91 4.91 4.91 7.07 7.07 REVIS 1EXIST HDPE 3CALC 3.0013 3.14 3.14	V FULL (F/S) 9.13 9.13 9.13 9.13 9.13 9.13 9.13 9.13	DESIGN V (F/S) 10.28 11.90 12.85 16.95 11.91 MATERIAL OF CAPACIT NNINGS N 13.34 10.88	Hw/D 0.70 0.70 0.76 0.82 1.87 1.14 1.14 N COM 83 V F0.74 1.65	ELEVATION 968.63 967.36 960.88 952.68 955.15 955.15 954.27 952.61 948.50 948.50	UPSTREAM FLOWLINE 960.13 956.55 955.55 952.84 943.58 943.58 943.58 943.58 943.58	DOWNSTREAM FLOWLINE 956.55 956.55 952.84 945.23 943.58 943.58 943.61 948.61 945.70	Image: Sector of the sector	EXISTING STRUCTURE TO REMIAN CONSTRU CT BOX OVER EXISTING PIP CONSTRU CT BOX OVER EXISTING PIP CONSTRU CT BOX OVER EXISTING PIP RECONSTRUCT AREA INLET RECONSTRUCT AREA INLET
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