

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS, EVEN THOUGH OTHERWISE SHOWN.

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

AT&T OHIO
130 N. ERIE ST, RM 714
TOLEDO, OH 44883
419-245-7304

INDEPENDENTS FIBER NETWORK
13888 COUNTY RD 25A
WAPAKONETA, OH 45895
419-739-3114

BUCKEYE BROADBAND
2700 OREGON RD.
NORTHWOOD, OH 43619
ATTN: MICHAEL SHEAHAN
419-724-3713

LEVEL 3 COMMUNICATIONS
1025 ELDORADO BLVD.
BROOMFIELD, CO 80021
512-742-1428

BUCKEYE PIPE LINE COMPANY
P.O. BOX 368
EMMAUS, PA 18049-0368
484-232-4000

SUNOCO LOGISTICS
7155 INKSTER ROAD
TAYLOR, MI 48180
313-670-1251

CITY OF TOLEDO -
DIVISION OF WATER
401 SOUTH ERIE STREET
TOLEDO, OH 43602
419-936-2839

TOLEDO EDISON (USIC)
6099 ANGOLA RD.
HOLLAND, OH 43528
419-249-5218

COLUMBIA GAS OF OHIO -
TOLEDO
2901 E. MANHATTAN BLVD.
TOLEDO, OH 43611
419-539-6066

MARATHON ASHLAND PIPE LINE
COMPANY
539 S. MAIN STREET
FINDLAY, OH 45840
419-422-2121

ENBRIDGE ENERGY
1409 HAMMOND AVE.
SUPERIOR, WI 54880
715-398-4500

LUCAS COUNTY ENGINEER'S OFFICE
1 GOVERNMENT CENTER, SUITE 870
TOLEDO, OH 43604-2259
419-213-4541 X4359

GAS RECOVERY SYSTEMS
10611 5 MILE RD.
NORTHVILLE, MI 48168
248-305-7774

LUCAS COUNTY SANITARY
ENGINEERS
1111 SOUTH McCORD RD.
HOLLAND, OH 43528
419-213-2926

CITY OF TOLEDO
DIVISION OF ENGINEERING SERVICES
600 JEFFERSON AVE. SUITE 300
TOLEDO, OHIO 43604
419-245-1315

CITY OF TOLEDO
DIVISION OF TRANSPORTATION
110 N. WESTWOOD
TOLEDO, OHIO 43607
419-245-1300

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 9:00 PM AND 7:00 AM. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT. CONTRACTOR WILL NEED TO APPLY FOR A NOISE WAIVER FROM CITY OF TOLEDO.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 2 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: ODOT VRS

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD 88
GEOID: 12A

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD 83 (2011)
ELLIPSOID: GRS 80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE NORTH ZONE
COMBINED SCALE FACTOR: 1.0000000
ORIGIN OF COORDINATE SYSTEM: OHIO NORTH ZONE
NORTHING = 0.000
EASTING = 0.000

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET. USE THE FOLLOWING CONVERSION FACTOR: 1 METER = 3.280833333 U.S. SURVEY FEET.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

MANHOLES, CATCH BASINS AND INLETS REMOVED OR ABANDONED

ALL CASTINGS SHALL BE CAREFULLY REMOVED AND STORED WITHIN THE RIGHT OF WAY FOR SALVAGE BY STATE FORCES.

PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 202 ITEM.

ITEM SPECIAL - MISCELLANEOUS METAL

EXISTING CASTINGS MAY PROVE TO BE UNSUITABLE FOR REUSE, AS DETERMINED BY THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CASTINGS OF THE REQUIRED TYPE, SIZE AND STRENGTH (HEAVY OR LIGHT DUTY) FOR THE PARTICULAR STRUCTURE IN QUESTION. ALL MATERIAL SHALL MEET ITEM 611 OF THE SPECIFICATIONS AND SHALL HAVE THE PRIOR APPROVAL OF THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

SPECIAL, MISCELLANEOUS METAL 500 POUNDS

THE CONTRACTOR IS CAUTIONED TO USE EXTREME CARE IN THE REMOVAL, STORAGE AND REPLACEMENT OF ALL EXISTING CASTINGS. CASTINGS DAMAGED BY THE NEGLIGENCE OF THE CONTRACTOR, AS DETERMINED BY THE ENGINEER, SHALL BE REPLACED WITH THE PROPER NEW CASTINGS AT THE EXPENSE OF THE CONTRACTOR.

TEMPORARY DRAINAGE ITEMS

TEMPORARY DRAINAGE ITEMS LABELED ON THE MAINTENANCE OF TRAFFIC PLAN ARE ITEMIZED IN THE MOT GENERAL SUMMARY FOR INFORMATION ONLY AND INCLUDED IN ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, LUMP SUM.

PART-WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXERCISE CARE TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LAP LONGITUDINAL JOINTS AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, SOIL ANALYSIS TEST	2 EACH
659, TOPSOIL	189 CU. YD.
659, SEEDING AND MULCHING - SEE SHEETS 52 AND 56	85 SQ. YD.
659, REPAIR SEEDING AND MULCHING	85 SQ. YD.
659, INTER-SEEDING	85 SQ. YD.
659, COMMERCIAL FERTILIZER	0.23 TON
659, LIME	0.04 ACRES
659, WATER	9 M. GAL.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

ITEM 690-98400 - SPECIAL - MISC.: WATER PERMIT FEES, FIXED LUMP SUM (\$7,650.00)

THIS ITEM OF WORK IS TO COMPENSATE THE CITY OF TOLEDO DIVISION OF WATER DISTRIBUTION FOR WATER PERMIT FEES FOR WORK ASSOCIATED WITH THIS PROJECT. THE WATER PERMIT FEES SHALL BE PAID BY THE CONTRACTOR PRIOR TO THE CITY COMMENCING WITH THE WORK. THE CONTRACTOR WILL NOT BE REQUIRED TO PERFORM ANY FIELD WORK ON THE PROJECT FOR THESE ITEMS.

QTY	UNIT	DESCRIPTION	UNIT FEE	TOTAL FEE
1	EACH	FIRE HYDRANT REMOVED	\$2,200.00	\$2,200.00
1	EACH	FIRE HYDRANT ADJUSTED TO GRADE	\$850.00	\$850.00
1	EACH	FIRE HYDRANT	\$4,600.00	\$4,600.00

CJK	10/07/21	△ CORRECT HOURS R2
REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

CALCULATED
ARA
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JMZ

GENERAL NOTES

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SHEET NUM.											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
7	8		34	35		37	42	52	56		01/NHS/BR	EXT	TOTAL				
											LS	201	11000	LS		ROADWAY	
			3,935			133					4,068	202	23000	4,068	SY	CLEARING AND GRUBBING	
			2,269								2,269	202	30000	2,269	SF	PAVEMENT REMOVED	
			360								360	202	32000	360	FT	WALK REMOVED	
			1,035								1,035	202	32500	1,035	FT	CURB REMOVED	
			120								120	202	35100	120	FT	CURB AND GUTTER REMOVED	
																PIPE REMOVED, 24" AND UNDER	
			48								48	202	35200	48	FT	PIPE REMOVED, OVER 24"	
			666								666	202	38000	666	FT	GUARDRAIL REMOVED	
			1								1	202	58000	1	EACH	MANHOLE REMOVED	
			3								3	202	58100	3	EACH	CATCH BASIN REMOVED	
								1,264	529		1,793	203	10000	1,793	CY	EXCAVATION	
								82	42		124	203	20000	124	CY	EMBANKMENT	
			4,529			133					4,662	204	10000	4,662	SY	SUBGRADE COMPACTION	
			250								250	606	15050	250	FT	GUARDRAIL, TYPE MGS	
			2								2	606	26050	2	EACH	ANCHOR ASSEMBLY, MGS TYPE B	
			2								2	606	26550	2	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
			2								2	606	35002	2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
			2								2	606	35102	2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
			2,685								2,685	608	10000	2,685	SF	4" CONCRETE WALK	
			175								175	608	52000	175	SF	CURB RAMP	
			24								24	608	53020	24	SF	DETECTABLE WARNING	
																EROSION CONTROL	
				11							11	601	32200	11	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
2											2	659	00100	2	EACH	SOIL ANALYSIS TEST	
189							66				255	659	00300	255	CY	TOPSOIL	
								1,005	699		1,704	659	10000	1,704	SY	SEEDING AND MULCHING	
85											85	659	14000	85	SY	REPAIR SEEDING AND MULCHING	
85											85	659	15000	85	SY	INTER-SEEDING	
0.23											0.23	659	20000	0.23	TON	COMMERCIAL FERTILIZER	
0.04											0.04	659	31000	0.04	ACRE	LIME	
9											9	659	35000	9	MGAL	WATER	
											394	670	00700	394	SY	DITCH EROSION PROTECTION	
											LS	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
											LS	832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
											LS	832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
											45,000	832	30000	45,000	EACH	EROSION CONTROL	
																DRAINAGE	
			358								358	605	11100	358	FT	6" SHALLOW PIPE UNDERDRAINS	
			1,049								1,049	605	14000	1,049	FT	6" BASE PIPE UNDERDRAINS	
			159								159	611	01501	159	FT	6" CONDUIT, TYPE F, AS PER PLAN	7A
			82								82	611	04401	82	FT	12" CONDUIT, TYPE B, AS PER PLAN	7A
			115								115	611	04601	115	FT	12" CONDUIT, TYPE C, AS PER PLAN	7A
			48								48	611	24000	48	FT	60" CONDUIT, TYPE C, AS PER PLAN	7A
			130								130	611	96600	130	FT	CONDUIT, BORED OR JACKED, 12"	
			5								5	611	98180	5	EACH	CATCH BASIN, NO. 3A	
			1								1	611	98370	1	EACH	CATCH BASIN, NO. 6	
			1								1	611	98470	1	EACH	CATCH BASIN, NO. 2-2B	
			1								1	611	99582	1	EACH	MANHOLE, NO. 3 WITH 90" BASE I.D. AND 8" WEIR	
			1								1	611	99654	1	EACH	MANHOLE ADJUSTED TO GRADE (SANITARY)	
			2								2	611	99660	2	EACH	MANHOLE RECONSTRUCTED TO GRADE (SANITARY)	
			3								3	611	99710	3	EACH	PRECAST REINFORCED CONCRETE OUTLET	
500											500	SPECIAL	61199820	500	LB	MISCELLANEOUS METAL	7

CJK	10/06/21	ADDENDUM R1
REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

CALCULATED CEL CHECKED JMZ
GENERAL SUMMARY
LUC-184-8.92
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REF NO.	SHEET NO.	STATION TO STATION		SIDE	601	605	605	611	611	611	611	611	611	611	611	611	611	611	WATER WORK			
					ROCK CHANNEL PROTECTION, TYPE C WITH FILTER CY	6" SHALLOW PIPE UNDERDRAINS FT	6" BASE PIPE UNDERDRAINS FT	6" CONDUIT, TYPE F, AS PER PLAN FT	12" CONDUIT, TYPE B, AS PER PLAN FT	12" CONDUIT, TYPE C, AS PER PLAN FT	60" CONDUIT, TYPE C, AS PER PLAN FT	CONDUIT, BORED OR JACKED, 12" FT	CATCH BASIN, NO. 3A EACH	CATCH BASIN, NO. 2-2B EACH	CATCH BASIN, NO. 6 EACH	MANHOLE, NO. 3 WITH 90" BASE I.D. AND 8" WEIR EACH	MANHOLE ADJUSTED TO GRADE, (SANITARY) EACH	MANHOLE RECONSTRUCTED TO GRADE, (SANITARY) EACH	PRECAST REINFORCED CONCRETE OUTLET EACH	SPECIAL 6" FIRE HYDRANT, CITY OF TOLEDO EACH	SPECIAL FIRE HYDRANT REMOVED AND DISPOSED OF, CITY OF TOLEDO EACH	SPECIAL FIRE HYDRANT ADJUSTED TO GRADE, CITY OF TOLEDO EACH
D-1	44	1082+08.57		LT																		
D-2	44	1082+08.57		LT/RT																		
D-3	44	1082+08.57		RT																		
D-4	44	1082+08.57		RT	2																	
D-5	44	1082+08.57	TO 1082+39.89	LT				38														
D-6	45	1082+39.09		LT																		
D-7	45	1086+46.50		LT	2																	
D-8	45	1086+46.50		LT																		
D-9	45	1086+46.50		LT/RT																		
D-10	45	1086+46.50		RT																		
D-11	48	107+57.30		LT																		
D-12	48	107+57.33	TO 107+88.53		7																	
D-13	49	110+71.68		LT																		
D-14	49	110+71.67		LT/RT				44														
D-15	49	110+71.67		RT																		
UD-1	44	1081+89.66	TO 1082+00.00	LT																		
UD-2	44	1082+00.00	TO 1083+95.95	LT																		
UD-3	44	1081+89.66	TO 1082+00.00	RT																		
UD-4	44	1082+00.00	TO 1083+28.00	RT																		
UD-5	45	1085+41.79	TO 1086+46.50	LT																		
UD-6	45	1081+46.50	TO 1086+86.86	LT																		
UD-7	45	1084+84.79	TO 1086+46.50	RT																		
UD-8	45	1086+46.50	TO 1086+86.86	RT																		
UD-9	48	109+26.46	TO 110+71.67	LT																		
UD-10	49	110+71.67	TO 111+39.32	LT																		
UD-11	49	110+96.50	TO 110+71.67	RT																		
UD-12	49	110+71.67	TO 111+39.32	RT																		
UD-13	44	1083+31.00	TO 1083+97.00	LT&RT																		
UD-14	45	1084+81.00	TO 1085+40.00	LT&RT																		
UD-15	48	107+58.00	TO 108+16.00	LT&RT																		
UD-16	48	109+25.00	TO 109+94.00	LT&RT																		
W-1	45	1086+09.37		LT																		
W-2	49	110+35.00	TO 111+45.00	RT																		
S-1	44	1083+09.06																				
S-2	48	109+82.30		LT																		
TOTALS CARRIED TO GENERAL SUMMARY					11	358	1049	159	82	115	48	130	5	1	1	1	1	1	3			

CALCULATED:
 CEL:
 CHECKED: JMZ
DRAINAGE SUBSUMMARY
LUC - 184 - 8.92*
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CJK	10/06/21	ADDENDUM R1
REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

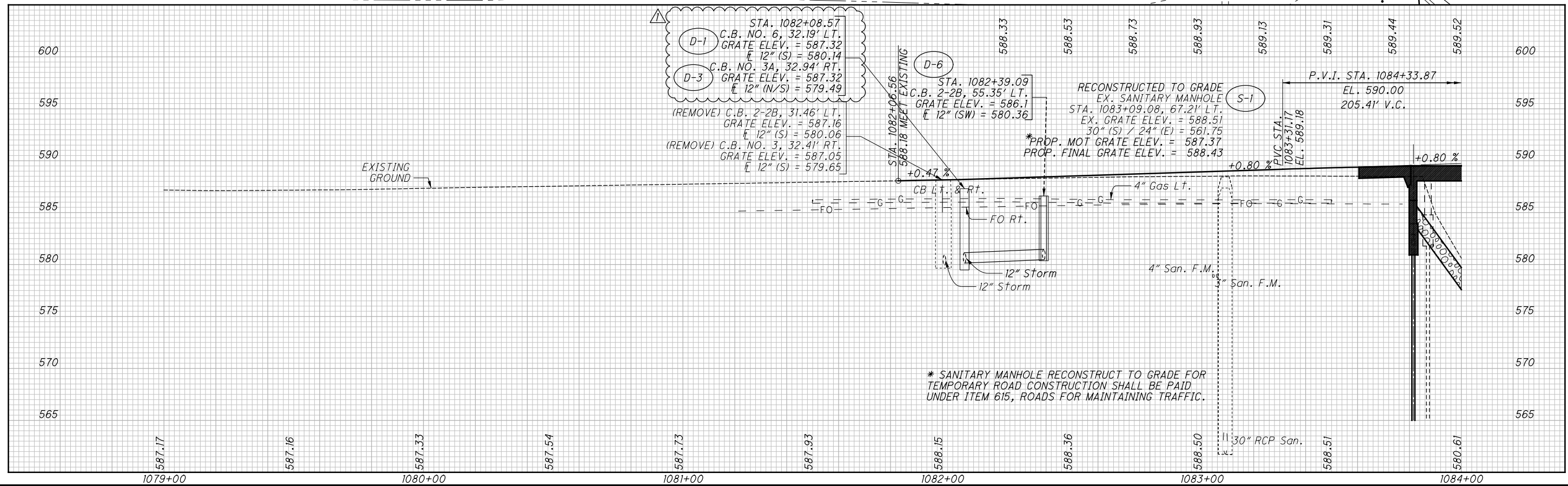
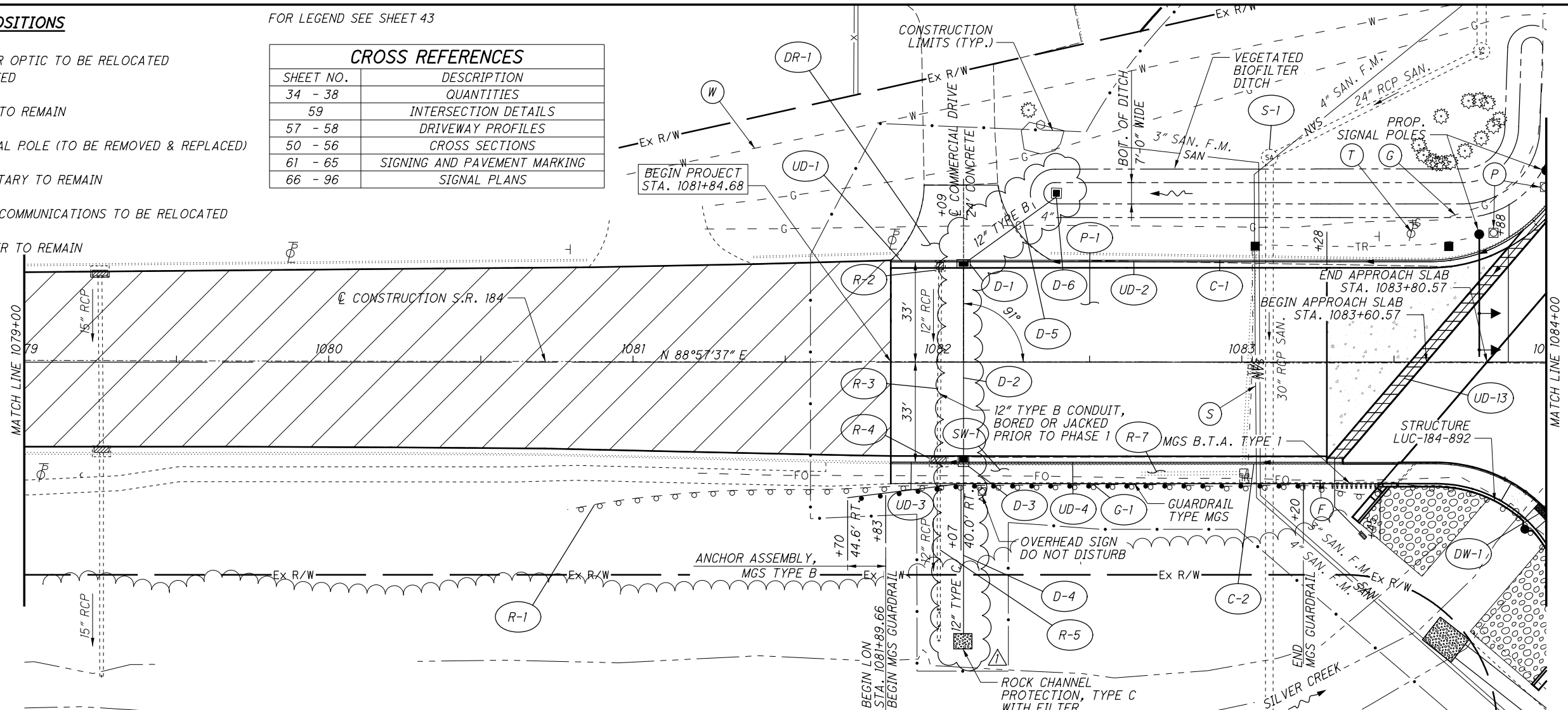
UTILITY DISPOSITIONS

- (F) EXIST. FIBER OPTIC TO BE RELOCATED OR PROTECTED
- (G) EXIST. GAS TO REMAIN
- (P) EXIST. SIGNAL POLE (TO BE REMOVED & REPLACED)
- (S) EXIST. SANITARY TO REMAIN
- (T) EXIST. TELECOMMUNICATIONS TO BE RELOCATED
- (W) EXIST. WATER TO REMAIN

FOR LEGEND SEE SHEET 43

CROSS REFERENCES

SHEET NO.	DESCRIPTION
34 - 38	QUANTITIES
59	INTERSECTION DETAILS
57 - 58	DRIVEWAY PROFILES
50 - 56	CROSS SECTIONS
61 - 65	SIGNING AND PAVEMENT MARKING
66 - 96	SIGNAL PLANS



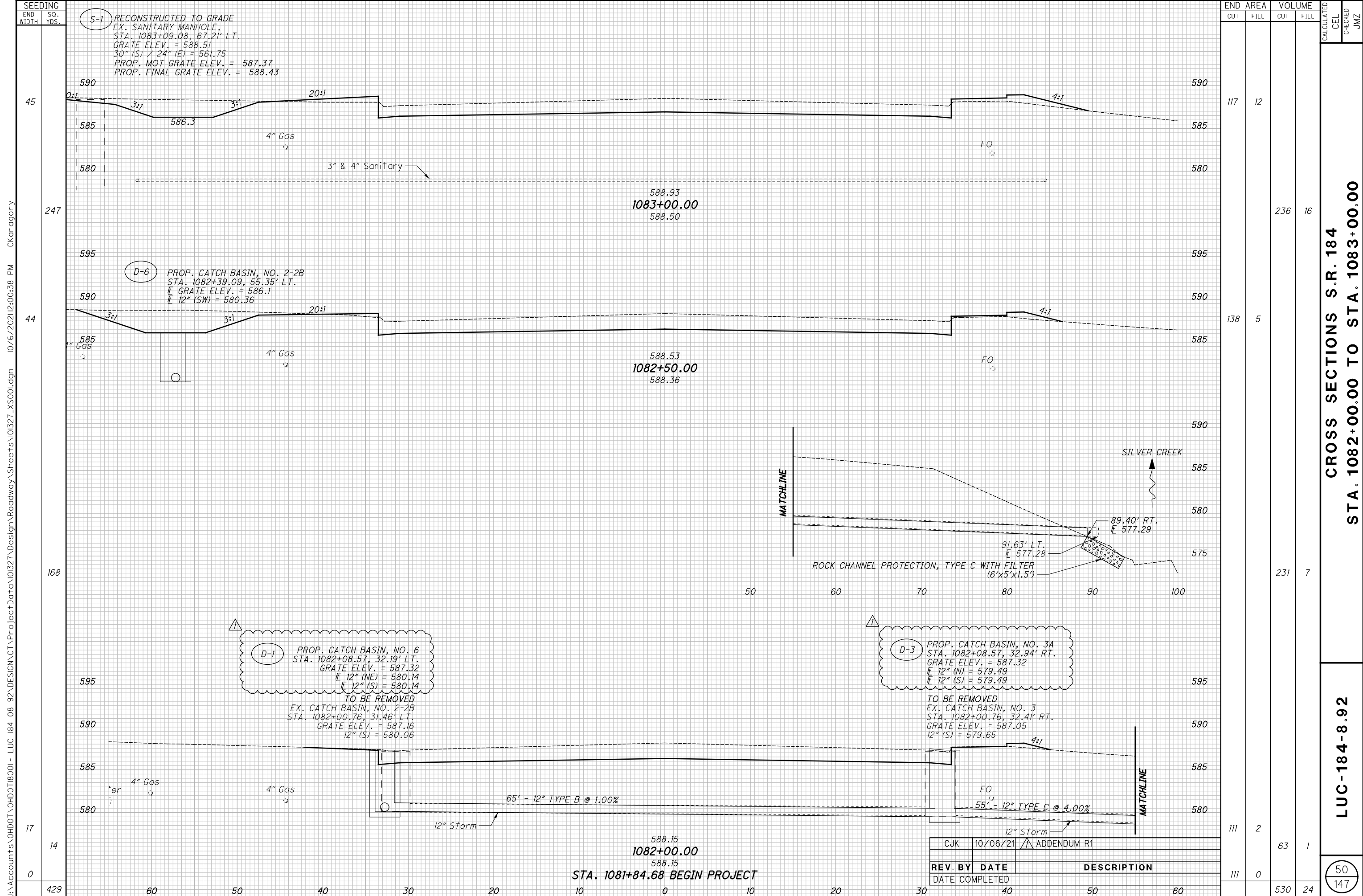
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CJK	10/06/21	ADDENDUM R1



**PLAN AND PROFILE - S.R. 184
STA. 1079+00 TO STA. 1084+00**

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S-1 RECONSTRUCTED TO GRADE
 EX. SANITARY MANHOLE,
 STA. 1083+09.08, 67.21' LT.
 GRATE ELEV. = 588.51
 30" (S) / 24" (E) = 561.75
 PROP. MOT GRATE ELEV. = 587.37
 PROP. FINAL GRATE ELEV. = 588.43

D-6 PROP. CATCH BASIN, NO. 2-2B
 STA. 1082+39.09, 55.35' LT.
 GRATE ELEV. = 586.1
 12" (SW) = 580.36

D-1 PROP. CATCH BASIN, NO. 6
 STA. 1082+08.57, 32.19' LT.
 GRATE ELEV. = 587.32
 12" (NE) = 580.14
 12" (S) = 580.14
 TO BE REMOVED
 EX. CATCH BASIN, NO. 2-2B
 STA. 1082+00.76, 31.46' LT.
 GRATE ELEV. = 587.16
 12" (S) = 580.06

D-3 PROP. CATCH BASIN, NO. 3A
 STA. 1082+08.57, 32.94' RT.
 GRATE ELEV. = 587.32
 12" (N) = 579.49
 12" (S) = 579.49
 TO BE REMOVED
 EX. CATCH BASIN, NO. 3
 STA. 1082+00.76, 32.41' RT.
 GRATE ELEV. = 587.05
 12" (S) = 579.65

CJK	10/06/21	ADDENDUM R1
REV. BY	DATE	DESCRIPTION
	DATE COMPLETED	

END STA.	AREA		VOLUME		CALCULATED CEL	CHECKED JMZ
	CUT	FILL	CUT	FILL		
45	117	12				
247			236	16		
44	138	5				
168			231	7		
17	111	2				
14			63	1		
0	111	0				
429			530	24		

**CROSS SECTIONS S.R. 184
 STA. 1082+00.00 TO STA. 1083+00.00**

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