

ITEM 202 - SPECIAL - FILL AND PLUG EXISTING CONDUIT, 12"

THIS ITEM CONSISTS OF THE CONSTRUCTION OF BULKHEADS IN AN EXISTING 12 INCH DIAMETER CONDUIT AND FILLING THE AREA SEALED OFF WITH ITEM 613, SAND OR OTHER MATERIAL APPROVED BY THE ENGINEER.

LOCATE THE BULKHEADS AT THE LIMITS OF THE AREA TO BE FILLED, AS INDICATED ON THE PLANS. THE BULKHEADS CONSIST OF BRICK OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

PUMP THE FILL MATERIAL INTO PLACE OR BY OTHER MEANS APPROVED BY THE ENGINEER, SO THAT AFTER SETTLEMENT, AT LEAST 90 PERCENT OF THE CROSS-SECTIONAL AREA OF THE CONDUIT, FOR ITS ENTIRE LENGTH IS FILLED. THE LENGTH OF FILLED AND PLUGGED CONDUIT TO BE PAID FOR IS THE ACTUAL NUMBER OF FEET (MEASURED ALONG THE CENTERLINE OF EACH CONDUIT FROM OUTER FACE TO OUTER FACE OF BULKHEADS) FILLED AND PLUGGED AS DESCRIBED ABOVE.

THE LENGTH, MEASURED AS PROVIDED ABOVE, WILL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR, ITEM SPECIAL, FILL AND PLUG EXISTING CONDUIT.

REVIEW OF DRAINAGE FACILITIES

PRIOR TO THE START OF WORK AND AGAIN BEFORE FINAL ACCEPTANCE, PERFORM AN INSPECTION WITH REPRESENTATIVES OF THE DEPARTMENT, CONTRACTOR AND LOCALS OF ALL EXISTING DRAINAGE FACILITIES THAT ARE TO REMAIN IN SERVICE WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES IS DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION ARE MAINTAINED BY THE DEPARTMENT.

CONFIRM ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES ARE MAINTAINED AND LEFT IN A CONDITION COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR IS RESPONSIBLE TO CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THEIR OPERATIONS AS DIRECTED AND APPROVED BY THE ENGINEER.

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

ITEM 606 - IMPACT ATTENUATOR, TYPE 3 (BIDIRECTIONAL), AS PER PLAN (40 MPH, 24" WIDTH)

ALL REQUIREMENTS OF C&MS 606 SHALL APPLY EXCEPT THE IMPACT ATTENUATORS SHALL BE THE SMART CUSHION SYSTEM.

ITEM 611 - 12" CONDUIT, TYPE C, AS PER PLAN (706.01 OR 706.02)

ALL REQUIREMENTS OF C&MS 611 SHALL APPLY AND PREMIUM (WATERTIGHT) JOINTS SHALL BE PROVIDED PER CMS 706.11.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

MANHOLES, CATCH BASINS AND INLETS REMOVED OR ABANDONED

CAREFULLY REMOVE AND STORE ALL CASTINGS WITHIN THE RIGHT OF WAY FOR SALVAGE BY ODOT OR VILLAGE OF BROOKLYN HEIGHTS FORCES.

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

POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES OFF SITE STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

ITEM 619 - FIELD OFFICE, TYPE C, AS PER PLAN

ALL REQUIREMENTS OF C&MS 619 SHALL APPLY EXCEPT AS MODIFIED HEREIN:

THE FIELD OFFICE SHALL BE A SUITE TYPE OFFICE (NO TRAILER OR MODULAR OFFICE) WITH A MINIMUM OF 4,000 SQUARE FEET AND AT GROUND LEVEL WITH A MINIMUM CEILING HEIGHT OF EIGHT (8) FEET. PROVIDE TWO (2) OUTSIDE DOORS, LOCKABLE VANDAL PROOF CYLINDER TYPE DEAD BOLTS AND LOCKABLE WINDOWS. THE FLOOR SPACE WILL BE DIVIDED INTO TWO RESTROOMS, ONE GENERAL OFFICE AREA (MINIMUM 400 SQUARE FEET), NOT LESS THAN SEVEN INDIVIDUAL OFFICES (MINIMUM 300 SQUARE FEET EACH) AS SEPARATE ENCLOSED ROOMS (NO CUBICLE DIVIDERS WILL BE ACCEPTED), ONE KITCHEN SPACE INCLUDING SINK, REFRIDGERATOR, AND MICROWAVE, AND ONE CONFERENCE ROOM (MINIMUM 1000 SQUARE FEET).

FURNISH NEAT, SANITARY, ENCLOSED TOILET ACCOMMODATIONS CONNECTED TO AN EXISTING SANITARY SEWER LINE FOR THE USE OF THE OCCUPANTS OF THE FIELD OFFICE, MEETING APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. FURNISH ASSOCIATED LAVATORY AND SANITARY SUPPLIES. POTABLE HOT AND COLD RUNNING WATER WILL BE PROVIDED IN THE RESTROOM FOR SANITARY PURPOSES.

FURNISH TRASH COLLECTION SERVICE / DUMPSTER.

FURNISH PROFESSIONAL, BONDED, AND INSURED JANITORIAL SERVICE WITH A WEEKLY CLEANING OF THE ENTIRE OFFICE TO INCLUDE THE RESTROOM FACILITIES FOR THE DURATION OF THE PROJECT.

FURNISH BOTTLED DRINKING WATER SERVICE WITH A HOT AND COLD DISPENSER AND ASSOCIATED SUPPLIES.

FURNISH A BOX FOR STORING A NUCLEAR DENSITY GAUGE WITH REQUIREMENTS AS SET FORTH IN C&MS 619.02.

FURNISH AND MAINTAIN A BROADBAND INTERNET CONNECTION CAPABLE OF MINIMUM DOWNLOAD SPEEDS OF 1.0 Gb/s. PROVIDE A WIRELESS ROUTER THAT SUPPORTS WI-FI STANDARD 802.11Ax (WIFI 6) AND A MINIMUM WIRELESS DATA TRANSFER RATE OF 4000 Mb/s. PROVIDE PRE-WIRED ETHERNET ACCESS FOR ALL INDIVIDUAL OFFICES AND THE CONFERENCE ROOM.

FURNISH TEN (10) DESK AND CHAIR SETS, THIRTY (30) STACKABLE CHAIRS, TWENTY (20) WORK TABLES (30" X 72"), AND TWELVE (12) 24-QUART WASTE BASKETS WITH APPROPRIATE SIZED TRASH BAGS.

FURNISH AND INSTALL TWO (2) WALL-MOUNTED 8’ X 4’ GLASS, MAGNETIC DRY ERASE BOARDS

FURNISH ONE NEW TELEVISION WITH THE FOLLOWING SPECIFICATIONS:

- a)DIAGONAL SCREEN SIZE – 70" MINIMUM
- b)NATIVE RESOLUTION – 4K
- c)HDMI PORTS: 3
- d)VIDEO INTERFACES: HDMI, USB
- e)ALL ACCESSORIES NECESSARY TO OPERATE
- f)ALL HARDWARE AND INSTALLATION NECESSARY TO HANG THE TELEVISION ON THE WALL IN THE CONFERENCE ROOM

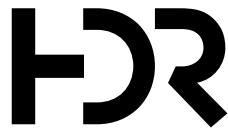
THE FIELD OFFICE WILL BE APPROVED IN ADVANCE BY THE ENGINEER AND FULLY OPERATIONAL WITHIN 30 DAYS AFTER THE SIGNING AND EXECUTION OF THE CONTRACT OR PRIOR TO THE START OF ANY CONSTRUCTION WORK, WHICHEVER COMES FIRST.

THE DEPARTMENT WILL MEASURE FIELD OFFICE, TYPE C, AS PER PLAN BY THE NUMBER OF MONTHS THE OFFICE IS MAINTAINED. A PARTIAL MONTH AT THE END OF THE PROJECT WILL BE PAID AS A FULL MONTH.

THE FOLLOWING QUANTITIES ARE CARRIED TO THE GENERAL SUMMARY:

ITEM 619 - FIELD OFFICE, TYPE C, 24 MONTHS
AS PER PLAN

DESIGN AGENCY



DESIGNER

TJS

REVIEWER

MJL 04/25/24

PROJECT ID

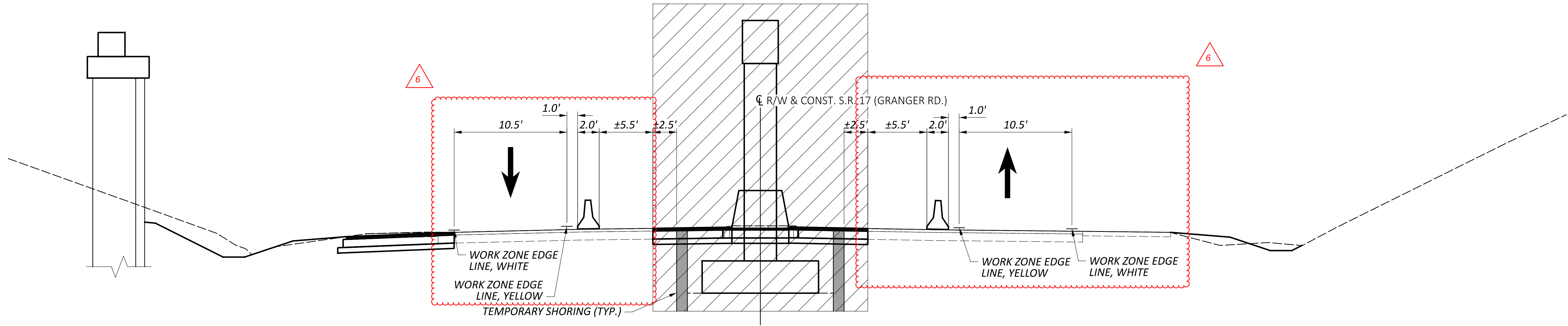
112998

SHEET

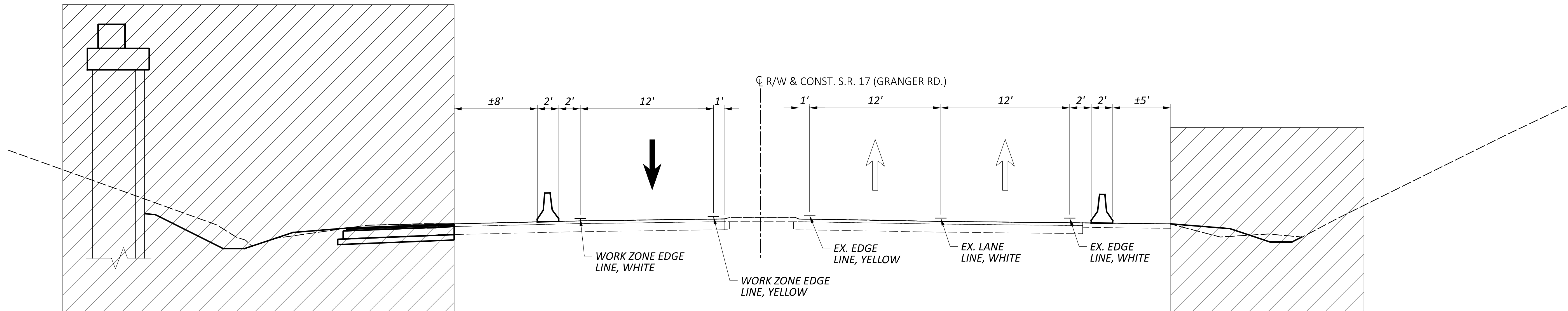
P.12

TOTAL

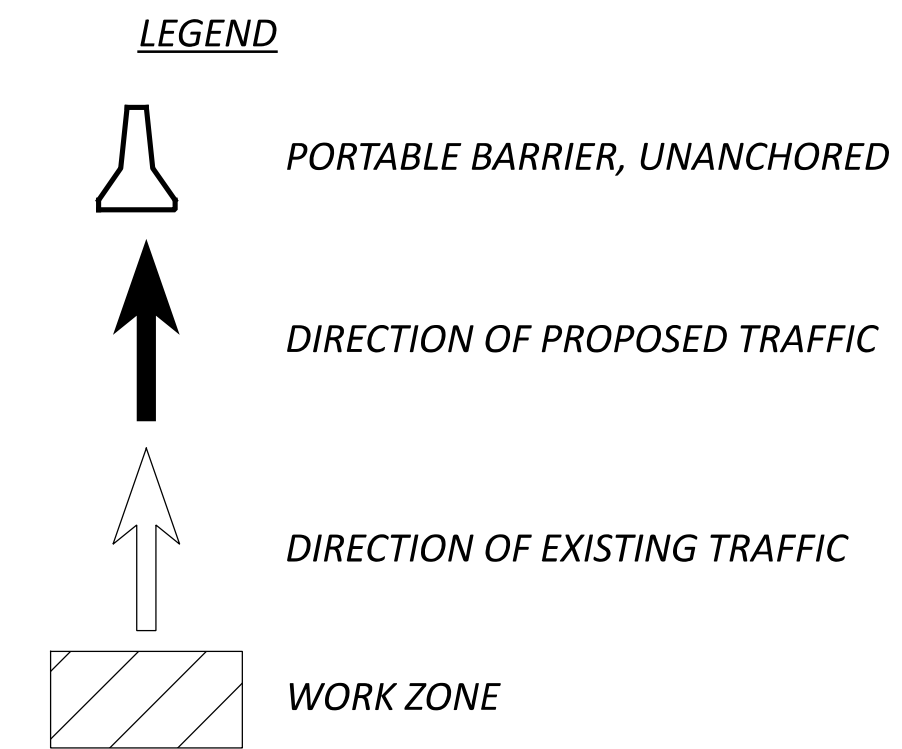
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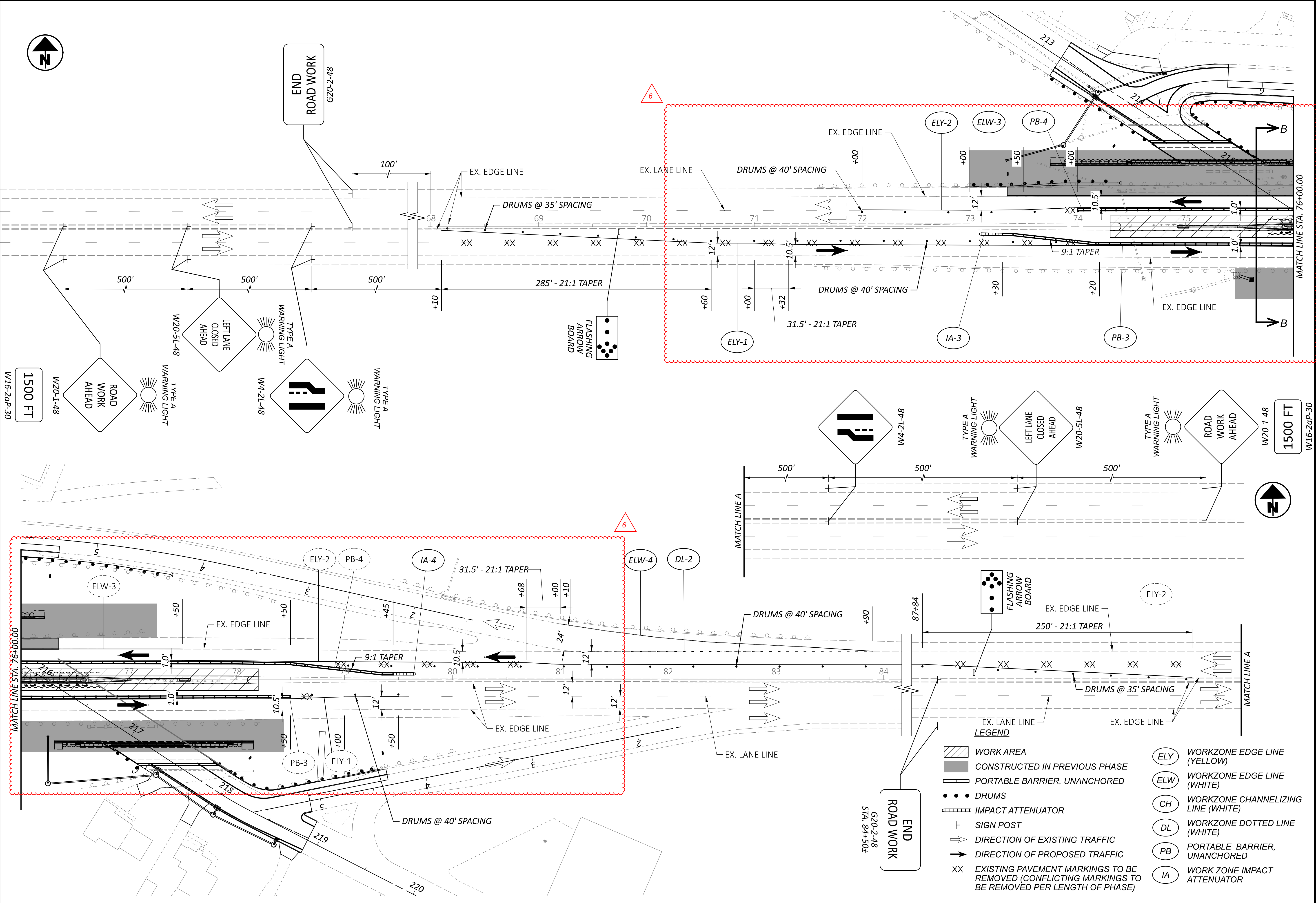


MOT PHASE 2
SECTION B-B, SHEET P.23



MOT PHASE 1
SECTION A-A, SHEET P.22





MAINTENANCE OF TRAFFIC
S.R. 17 PHASE 2

DESIGN AGENCY

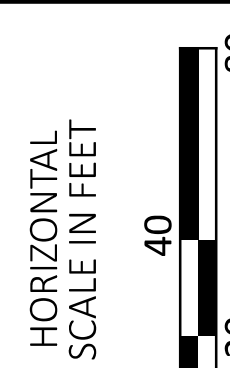


DESIGNER
WH

REVIEWER
TJS 04/25/24

PROJECT ID
112998

SHEET TOTAL
P.23 151



SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
							P.28	P.29	P.30	P.31	P.32	P.77	01/BRO						
										0.42			0.42	602	20000	0.42	CY	DRAINAGE	
											657		657	605	11110	657	FT	CONCRETE MASONRY	
											637		637	605	14020	637	FT	6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
											137		137	611	00510	137	FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
										80			80	611	04400	80	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
																	FT	12" CONDUIT, TYPE B	
										118			118	611	04600	118	FT	12" CONDUIT, TYPE C	
										128			128	611	04601	128	FT	12" CONDUIT, TYPE C, AS PER PLAN (706.01 OR 706.02)	P.12
										158			158	611	05200	158	FT	12" CONDUIT, TYPE F	
										10			10	611	10600	10	FT	24" CONDUIT, TYPE C	
										2			2	611	98150	2	EACH	CATCH BASIN, NO. 3	
										2			2	611	98180	2	EACH	CATCH BASIN, NO. 3A	
										1			1	611	98370	1	EACH	CATCH BASIN, NO. 6	
										1			1	611	98410	1	EACH	CATCH BASIN, NO. 8	
										1			1	611	98571	1	EACH	CATCH BASIN, NO. 2-5, AS PER PLAN	P.76
										6			6	611	99574	6	EACH	MANHOLE, NO. 3	
											5		5	611	99710	5	EACH	PRECAST REINFORCED CONCRETE OUTLET	
																		PAVEMENT	
								109	575				684	254	01001	684	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN, 3"	P.11
								172	1,080				1,252	255	20000	1,252	FT	FULL DEPTH PAVEMENT SAWING	
								193					193	301	56000	193	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
								341	206				547	304	20000	547	CY	AGGREGATE BASE	
								764	1,206				1,970	305	13011	1,970	SY	9" CONCRETE BASE, CLASS QC 1P, AS PER PLAN (REINFORCED)	P.11
								63	126				189	407	13900	189	GAL	TACK COAT, 702.13	
								209	100				309	407	20000	309	GAL	NON-TRACKING TACK COAT	
								105	59				164	441	70101	164	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN, PG70-22M	P.11
								44	82				126	441	70300	126	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)	
								180					180	452	10010	180	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
																		WATER WORK	
												84	84	638	04900	84	FT	1" COPPER SERVICE BRANCH	
												10	10	638	10800	10	EACH	VALVE BOX ADJUSTED TO GRADE	
												2	2	SPECIAL	63820912	2	EACH	1" CURB VALVE AND BOX, CITY OF CLEVELAND DIVISION OF WATER	P.77
																		SANITARY SEWER	
							2						2	611	99654	2	EACH	MANHOLE ADJUSTED TO GRADE	
						</													

CUY-17-13.50

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REF NO.	SHEET NO.	STATION TO STATION					202	202	202	SPECIAL	202	601	601	601	602	611	611	611	6 611	611	611	611	611	611	611	611	670	836
							PIPE REMOVED, 24" DIAMETER AND UNDER	MANHOLE REMOVED	CATCH BASIN REMOVED	FILL AND PLUG EXISTING CONDUIT, 12"	GUTTER REMOVED	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT	CONCRETE MASONRY	12" CONDUIT, TYPE B	12" CONDUIT, TYPE C	12" CONDUIT, TYPE C. AS PER PLAN (706.01 OR 706.02)	12" CONDUIT, TYPE F	24" CONDUIT, TYPE C	CATCH BASIN, NO. 3A	CATCH BASIN, NO. 3	CATCH BASIN, NO. 6	CATCH BASIN, NO. 8	CATCH BASIN, NO. 2-5, AS PER PLAN	MANHOLE, NO. 3	DITCH EROSION PROTECTION MAT, TYPE B	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1
DR-1	P.34	213+55.80	RT/LT	TO	213+88.50	RT/LT	65	1	2																			
DR-2	P.34	213+61.00	RT	TO	214+00.00	RT	106	1																				
DR-3	P.36	73+61.60	LT	TO	74+40.00	LT	84		1																			
DR-4	P.36	74+40.00	LT	TO	74+61.00	RT			1	85																		
DR-5	P.36-P.37	74+40.00	LT	TO	75+92.00	LT	151		1																			
DR-6	P.37	75+92.00	LT	TO	76+10.00	LT					57																	
DR-7	P.37	78+78.00	RT							13																		
D-1	P.73	6+87.00	RT	TO	213+66.00	RT									65						1							
D-2	P.73	213+61.00	RT	TO	213+66.00	RT									15										1			
D-3	P.73	213+66.00	RT															58			1					1		
D-4	P.73	213+66.00	RT	TO	213+29.10	RT								0.21				54							1			
D-5	P.74	218+64.00	RT	TO	218+64.00	RT										5					1							
D-5A	P.74	218+64.00	RT	TO	218+03.00	RT											63								1			
D-6	P.74	218+03.00	RT	TO	218+03.00	RT										7						1						
D-6A	P.74	218+03.00	RT	TO	217+39.00	RT											65								1			
D-7	P.74	217+39.00	RT	TO	217+39.00	RT										5						1				1		
D-7A	P.74	217+39.00	RT	TO	76+25.00	RT										101									1			
D-8	P.74	76+25.00	RT	TO	76+25.00	RT								0.21				46							1			
D-9	P.74	75+61.00	RT	TO	75+47.40	RT													10					1				
D-10	P.74	75+47.40	RT																			1						
E-1	P.36	73+00.00	LT	TO	73+82.00	LT						52																
E-2	P.36	73+82.00	LT	TO	75+05.00	LT																				55		
E-2A	P.36-P.37	75+05.00	LT	TO	75+95.00	LT																					40	
E-2B	P.37	75+95.00	LT	TO	77+25.00	LT																				58		
E-3	P.36	73+73.00	LT										2															
E-4	P.36	73+71.00	LT	TO	74+45.00	LT							33															
E-5	P.37	75+63.00	RT	TO	76+55.00	RT																				65		
E-5A	P.37	76+55.00	RT	TO	77+45.00	RT																					40	
E-5B	P.37	77+45.00	RT	TO	78+25.00	RT																				36		
E-6	P.37	75+96.50	LT	TO	76+21.50	LT							11															
E-7	P.37	76+24.00	LT										38															
E-8	P.37	76+25.00	RT									2																
E-9	P.37	76+31.00	RT	TO	76+52.00	RT							10															
E-10	P.37	77+95.50	RT	TO	78+15.50	RT							9															
E-11	P.37	78+17.50	RT									4																
E-12	P.37	76+29.00	RT									4																

DRAINAGE SUBSUMMARY

DESIGN AGENCY



DESIGNER

SDI

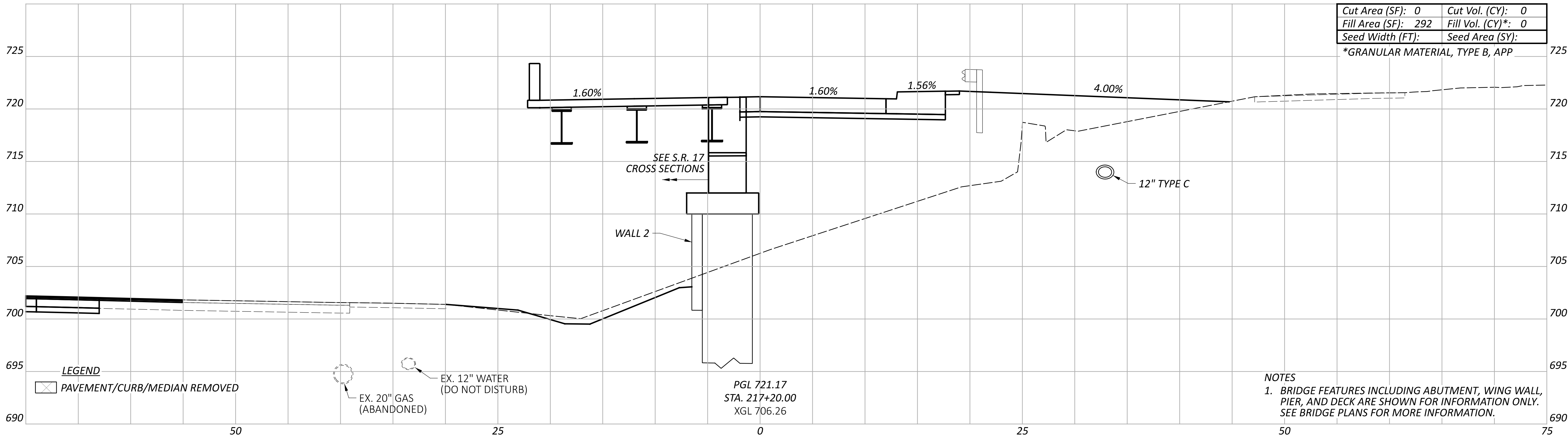
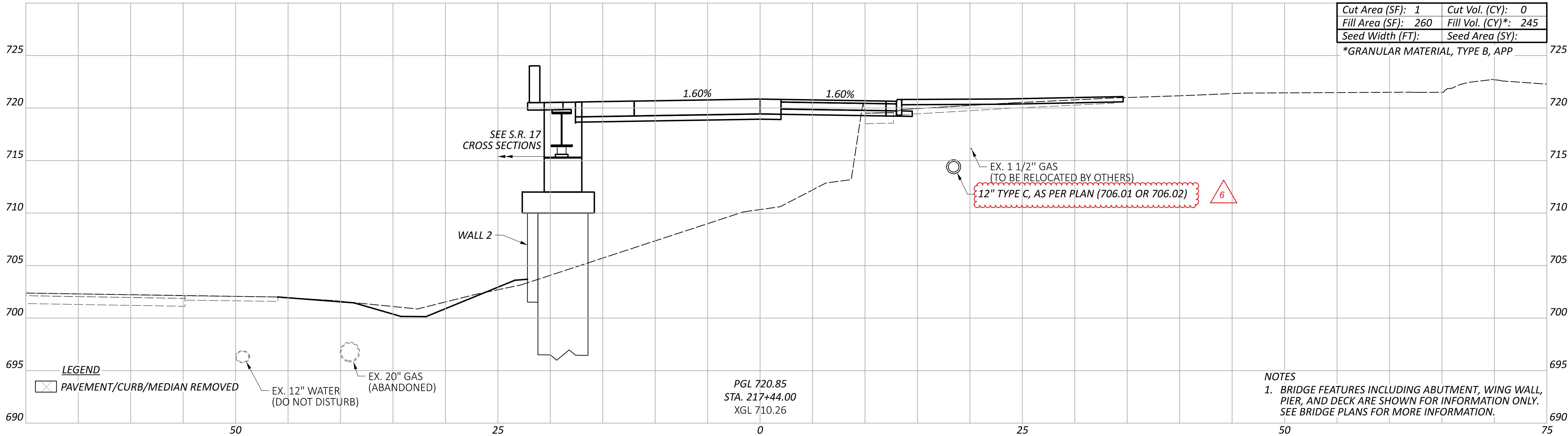
REVIEWER

W/HT 05

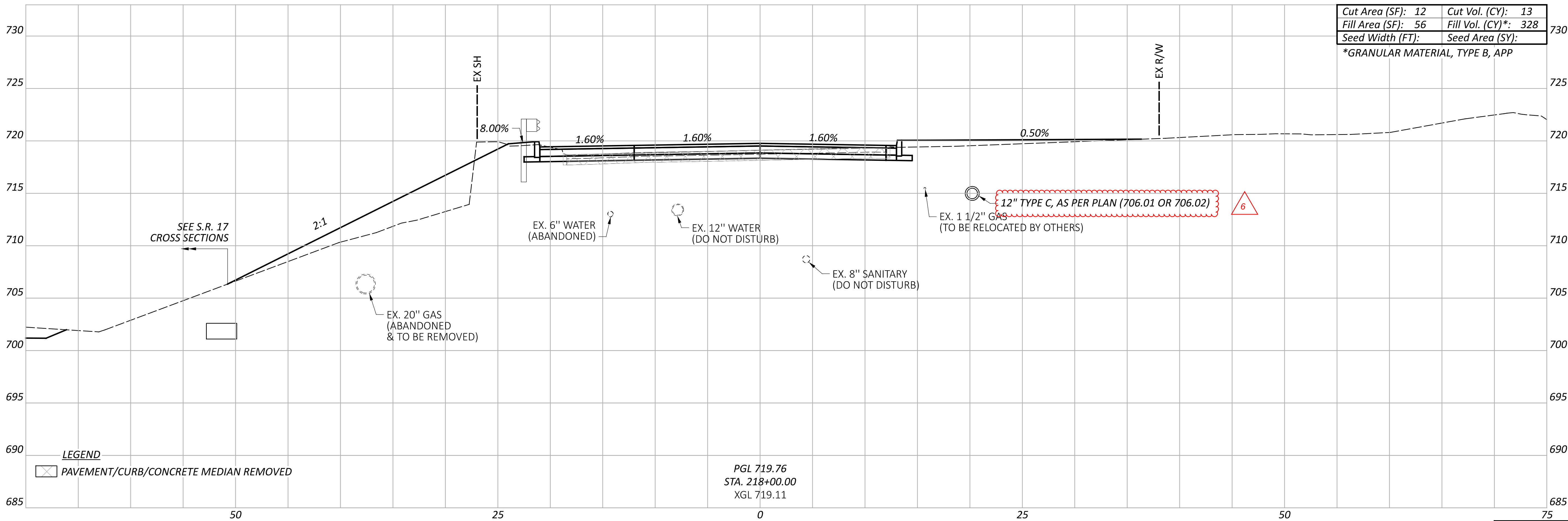
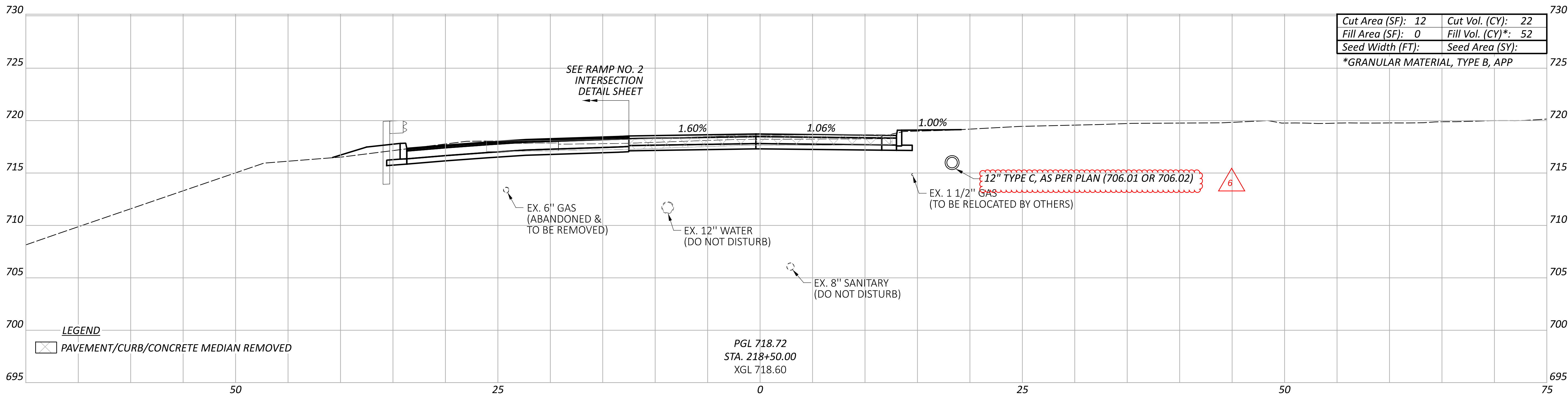
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SHEET	TOTAL
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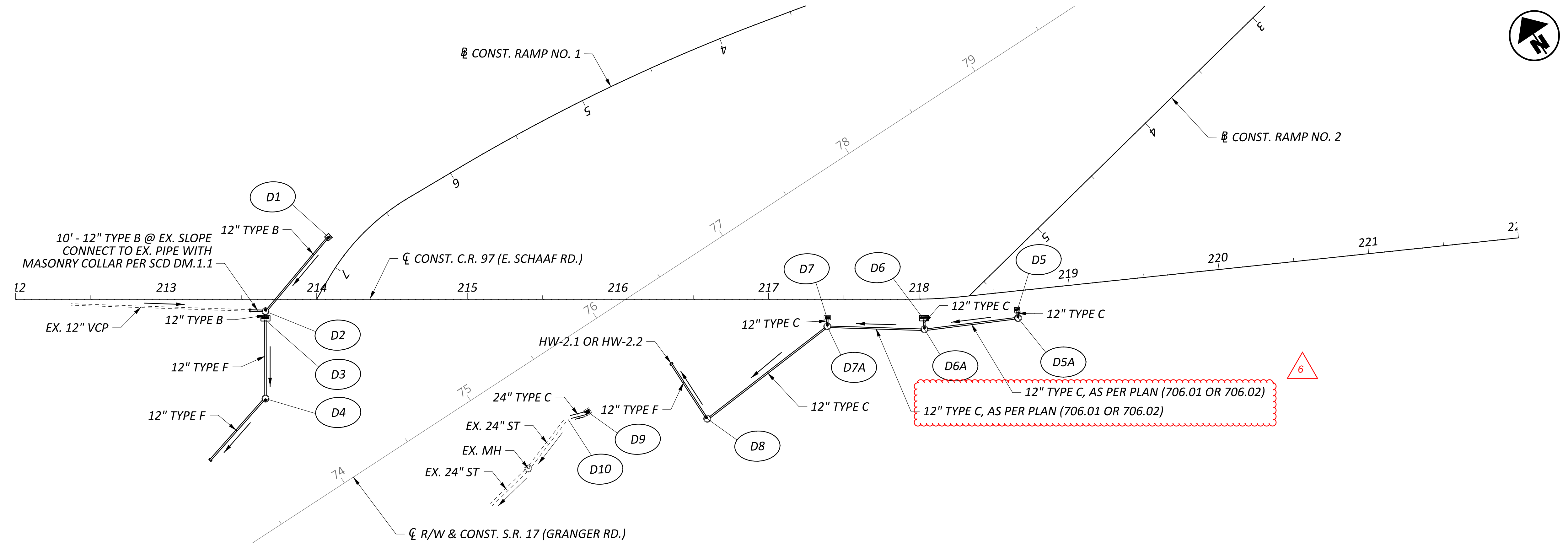
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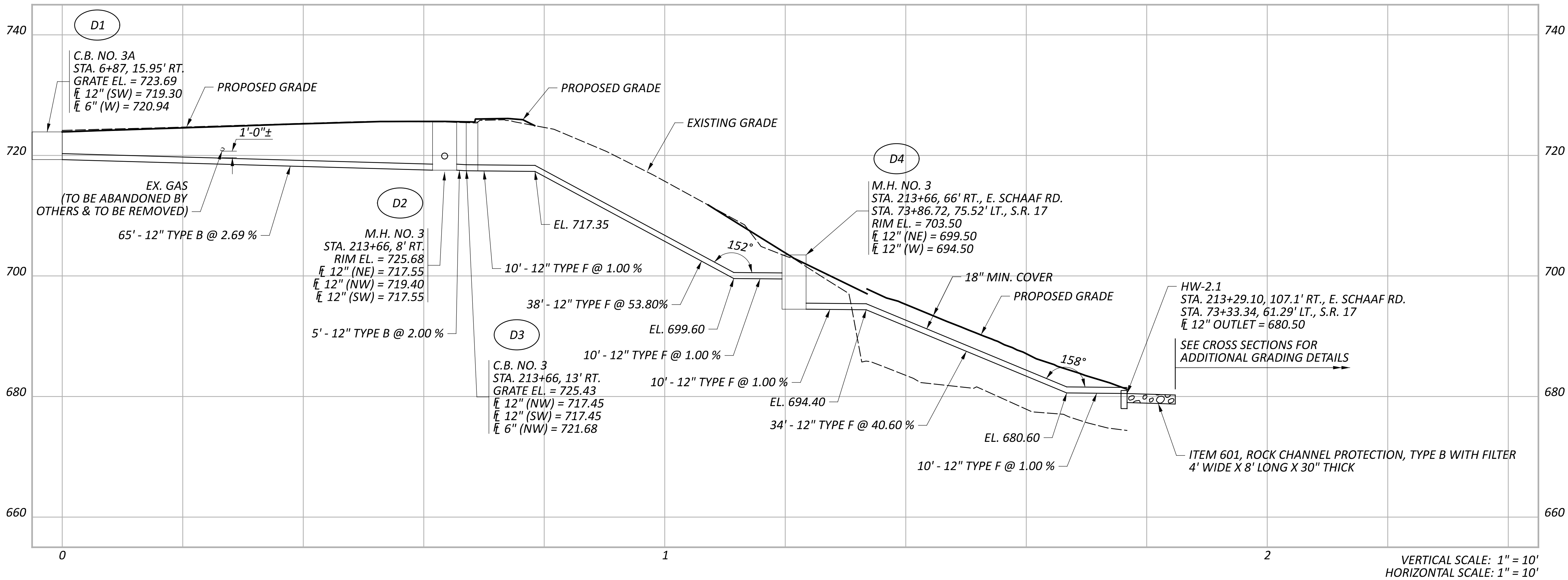
Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill*		
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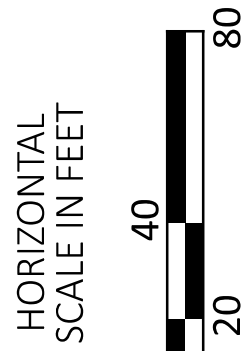
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Seeding	Cut	Fill*	P.45	151
	35	380		



NOTES:
1. FOR PROFILES D-5 THRU D-10 SEE SHEET P.74



STORM SEWER PROFILES
C.R. 97 (E. SCHAAF RD.) & S.R. 17 (GRANGER RD.)



DESIGN AGENCY



DESIGNER

SDL

REVIEWER

WHT 07/09/25

PROJECT ID

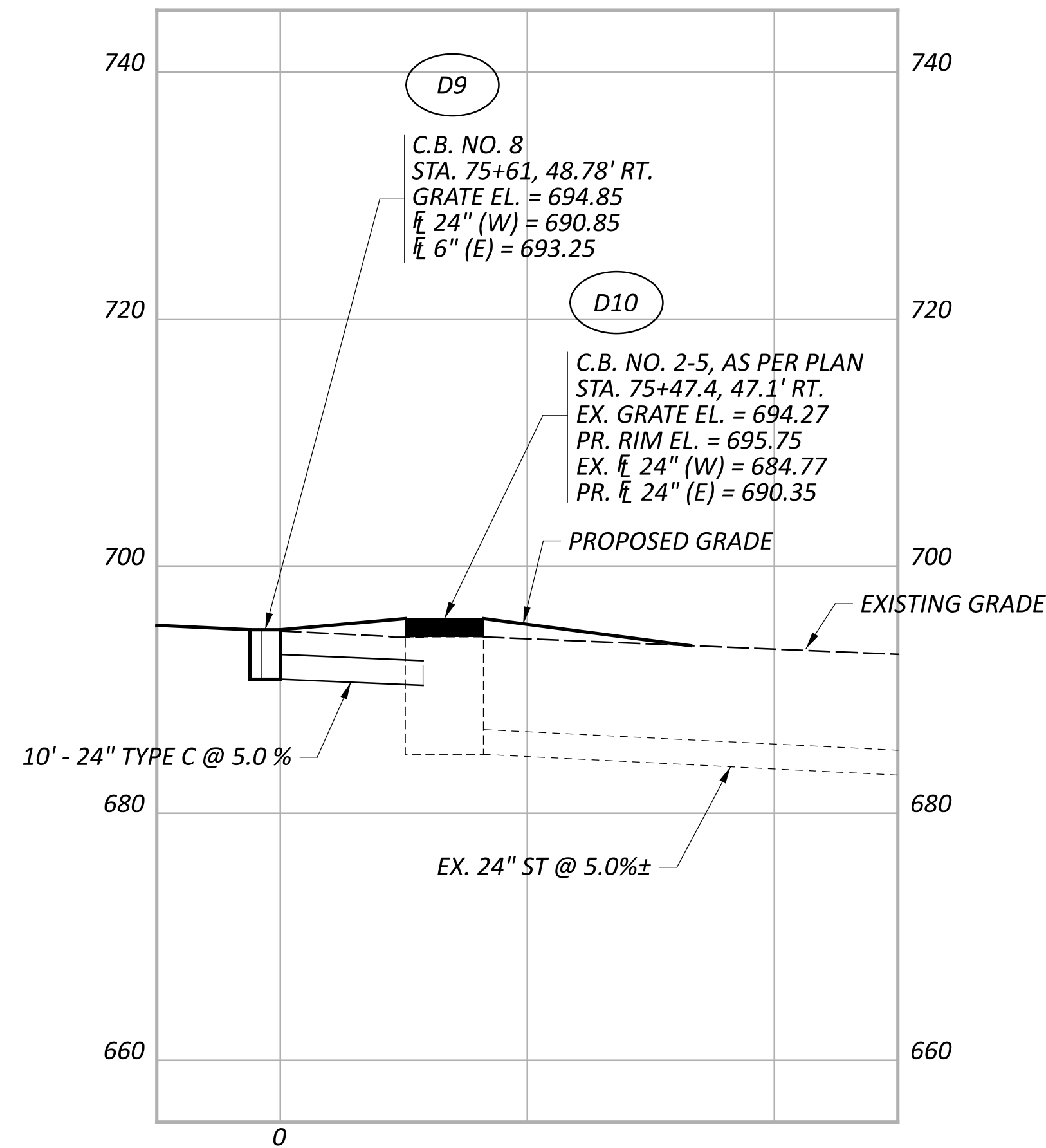
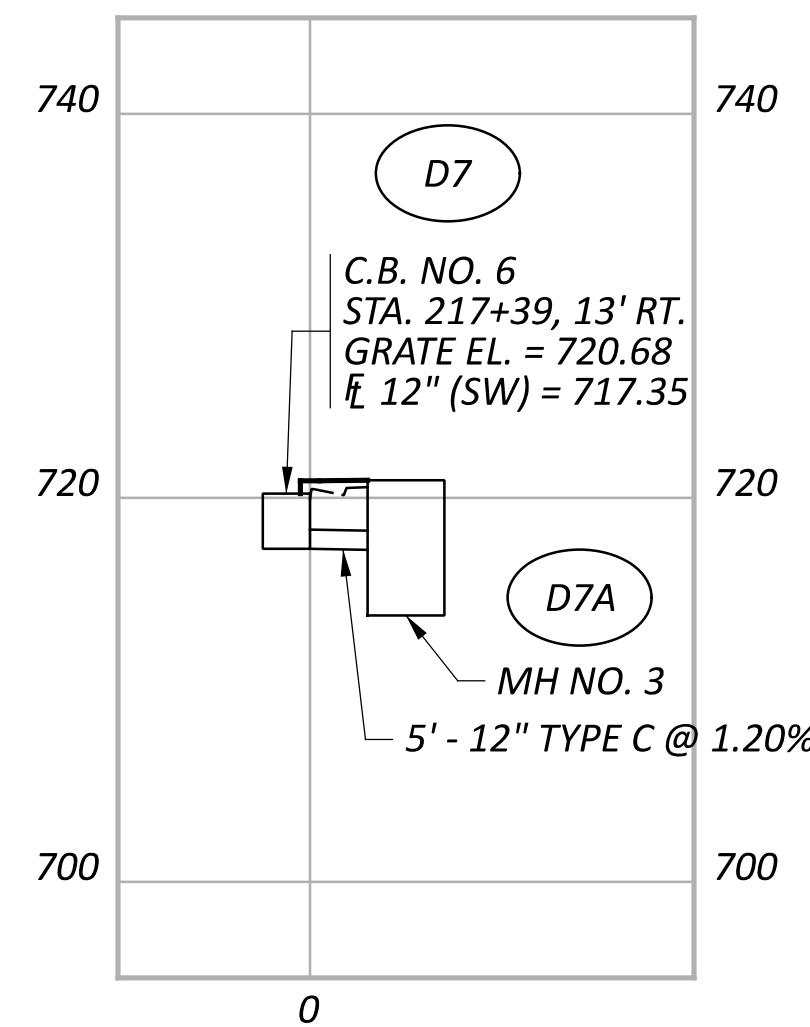
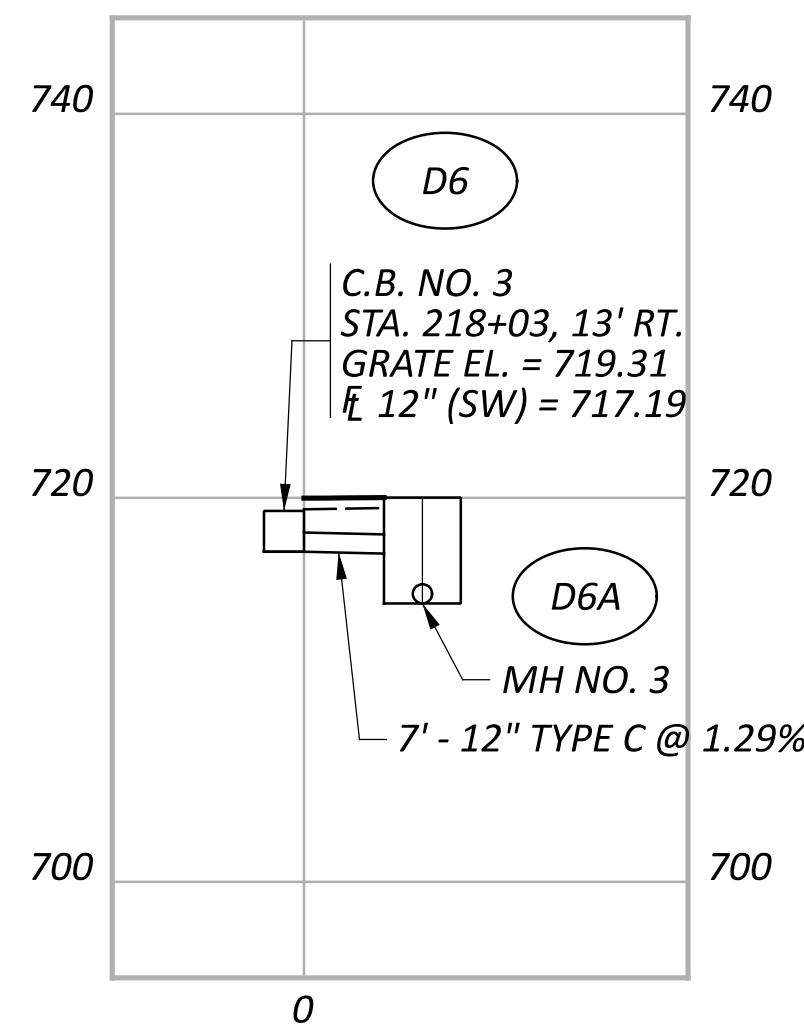
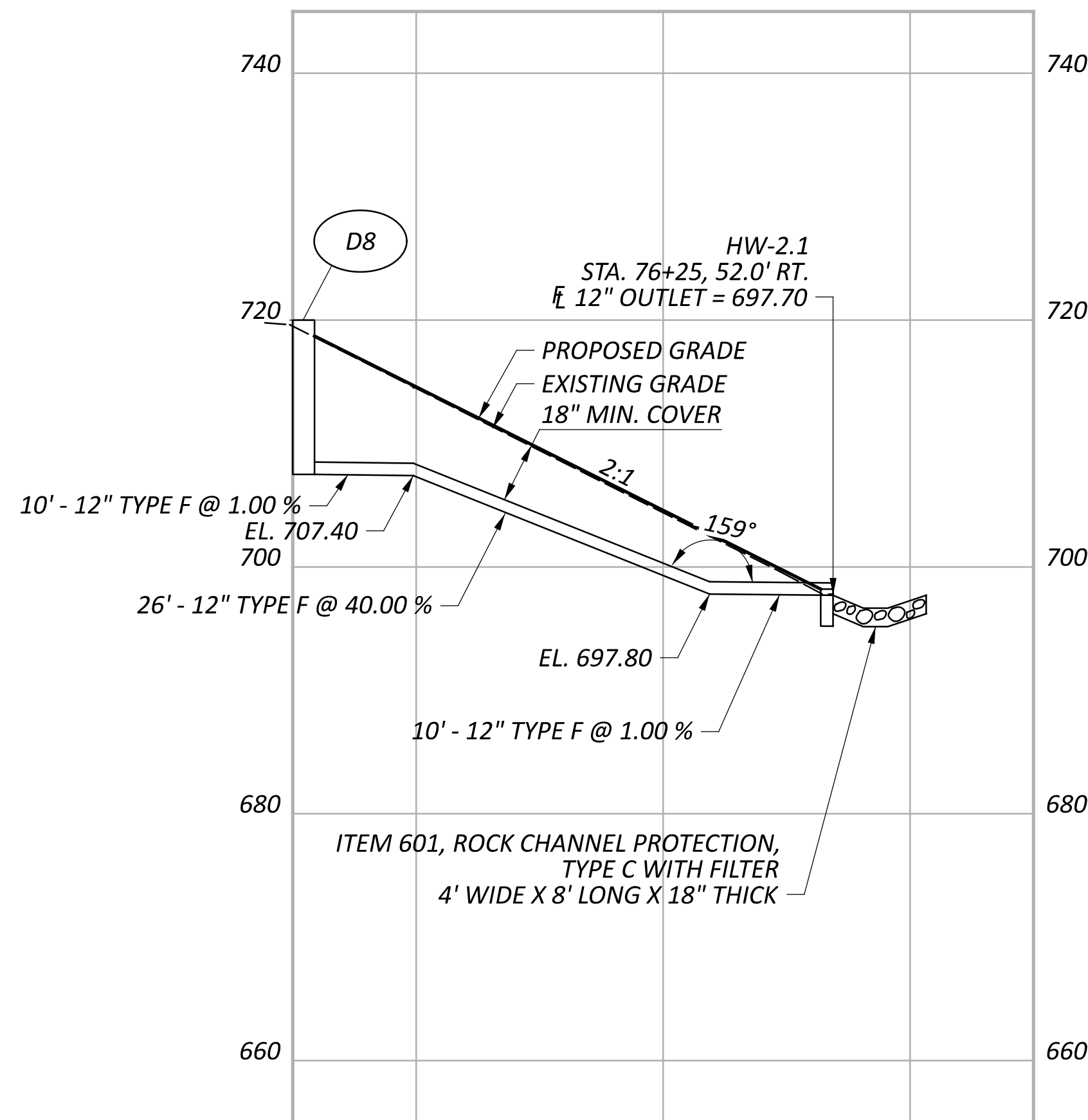
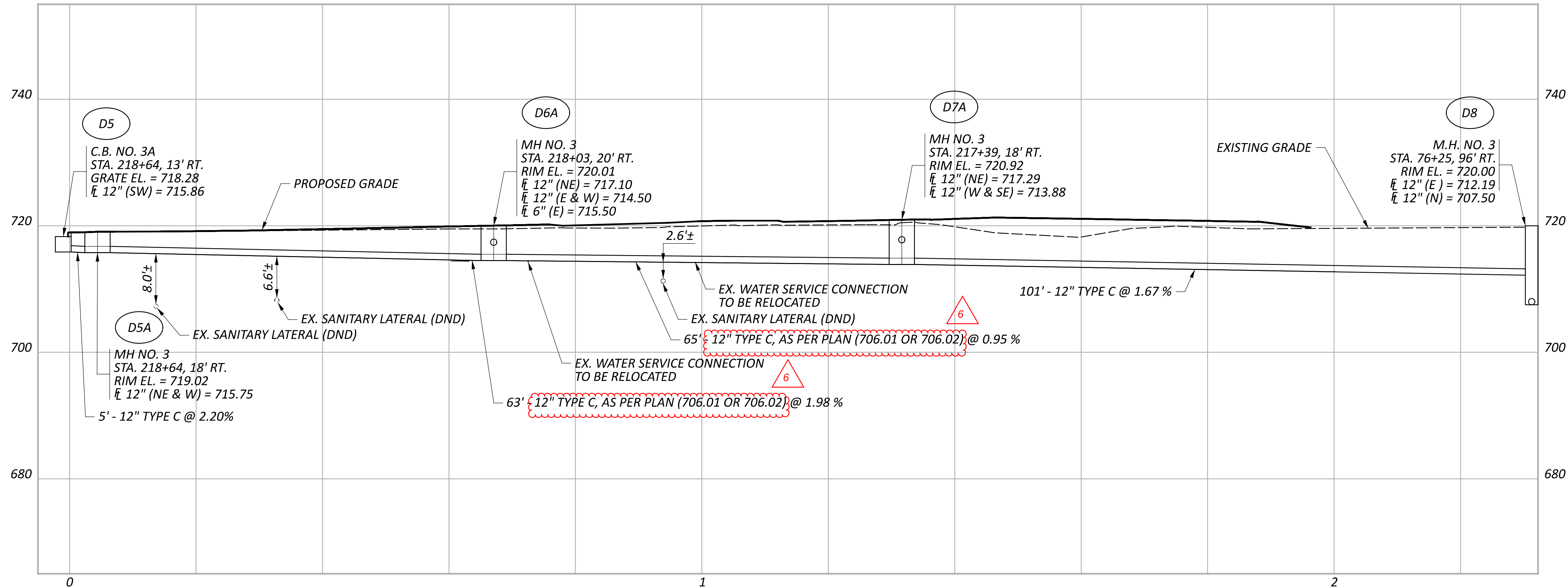
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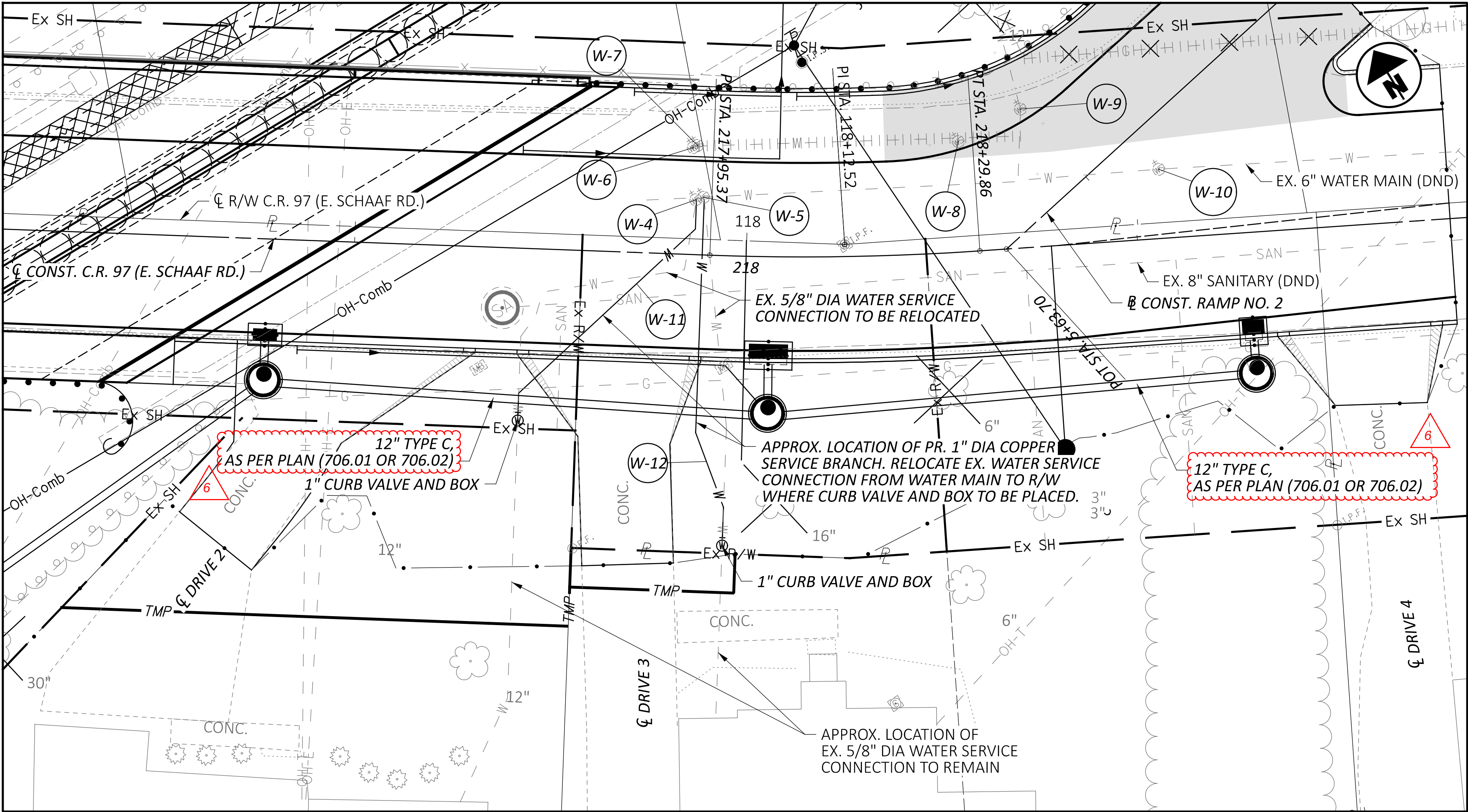
P.73

TOTAL

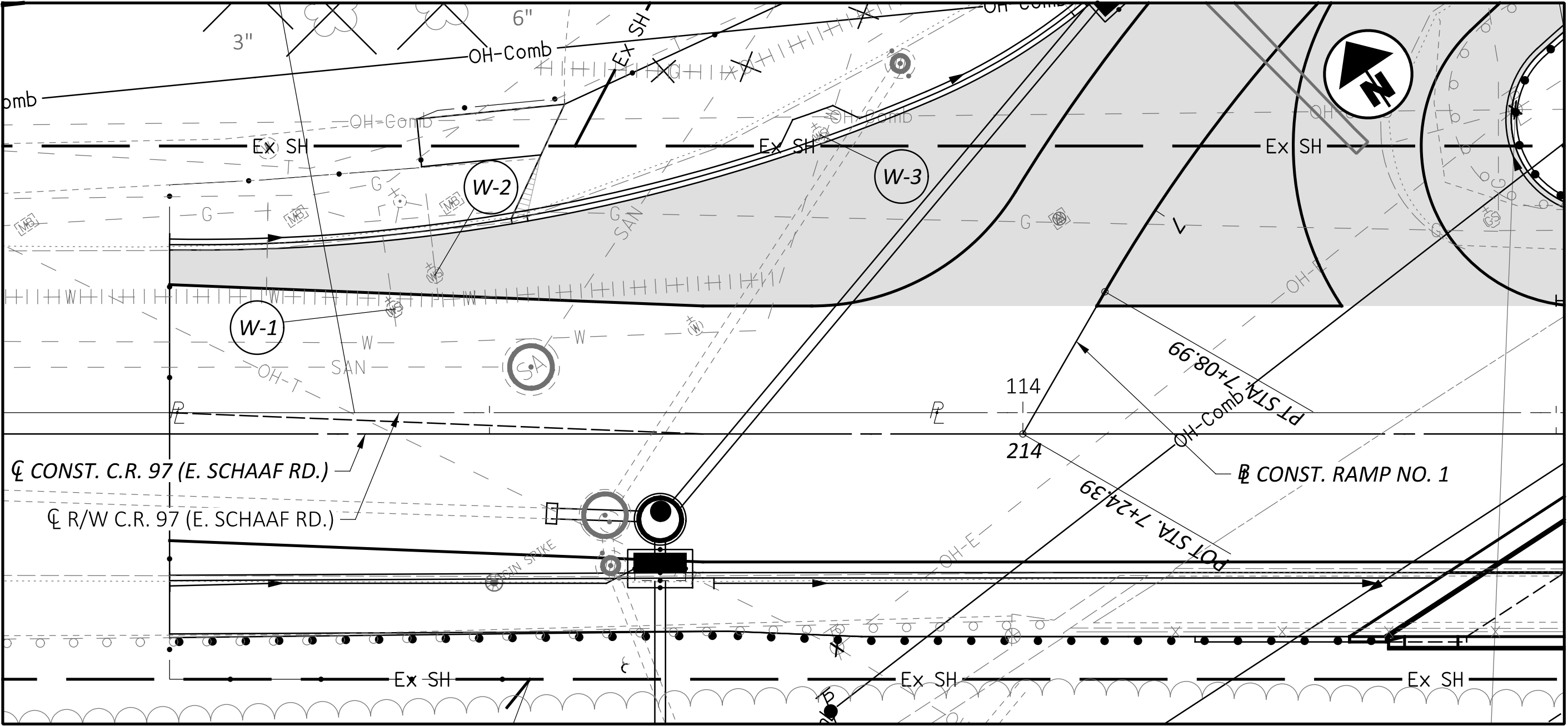
151



VERTICAL SCALE: 1" = 10'
 HORIZONTAL SCALE: 1" = 10'



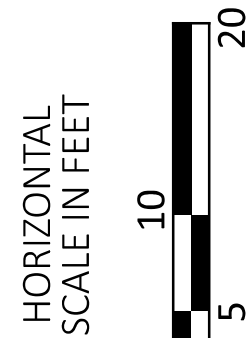
FORWARD APPROACH



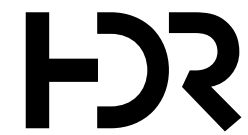
REAR APPROACH

NOTES
1. SEE SHEET P.34 FOR LEGEND.

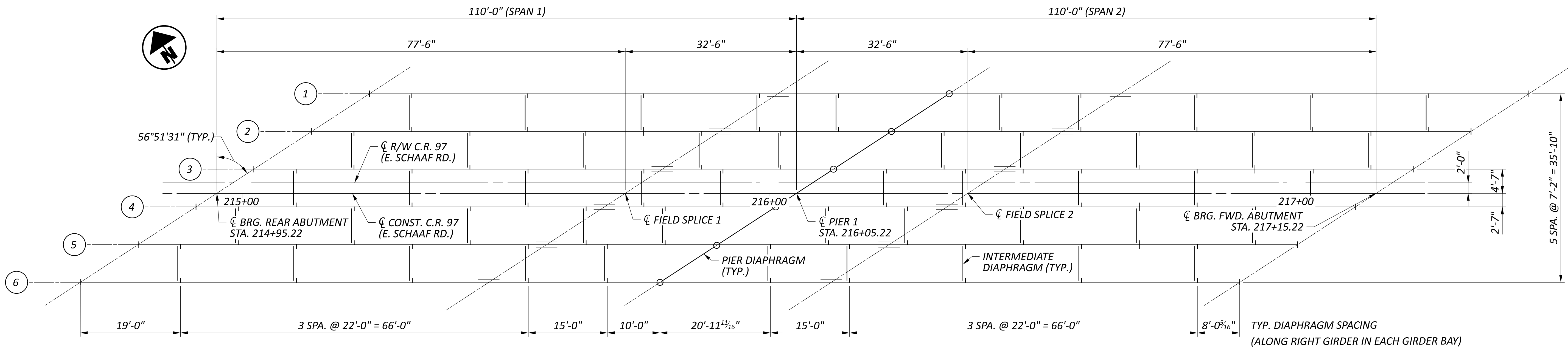
WATER PLAN
C.R. 97 (E. SCHAAF RD.)



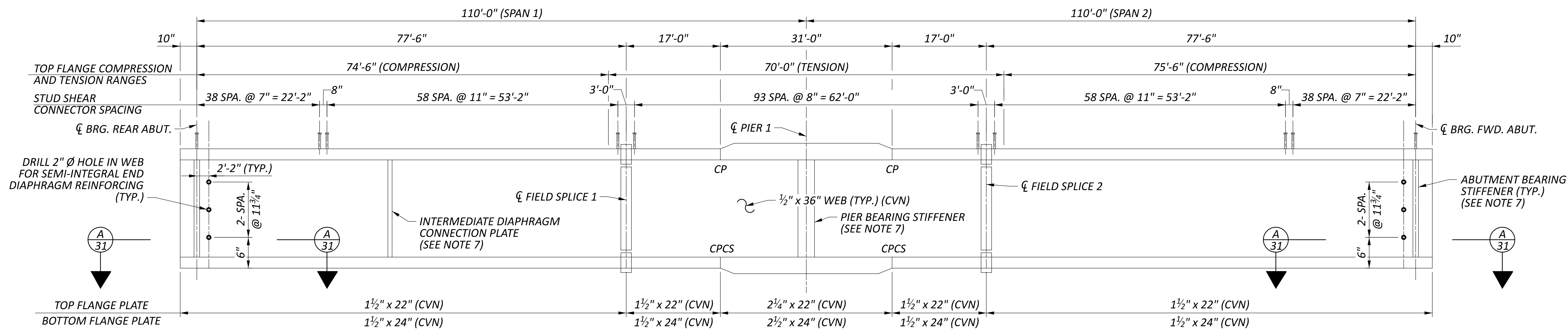
DESIGN AGENCY



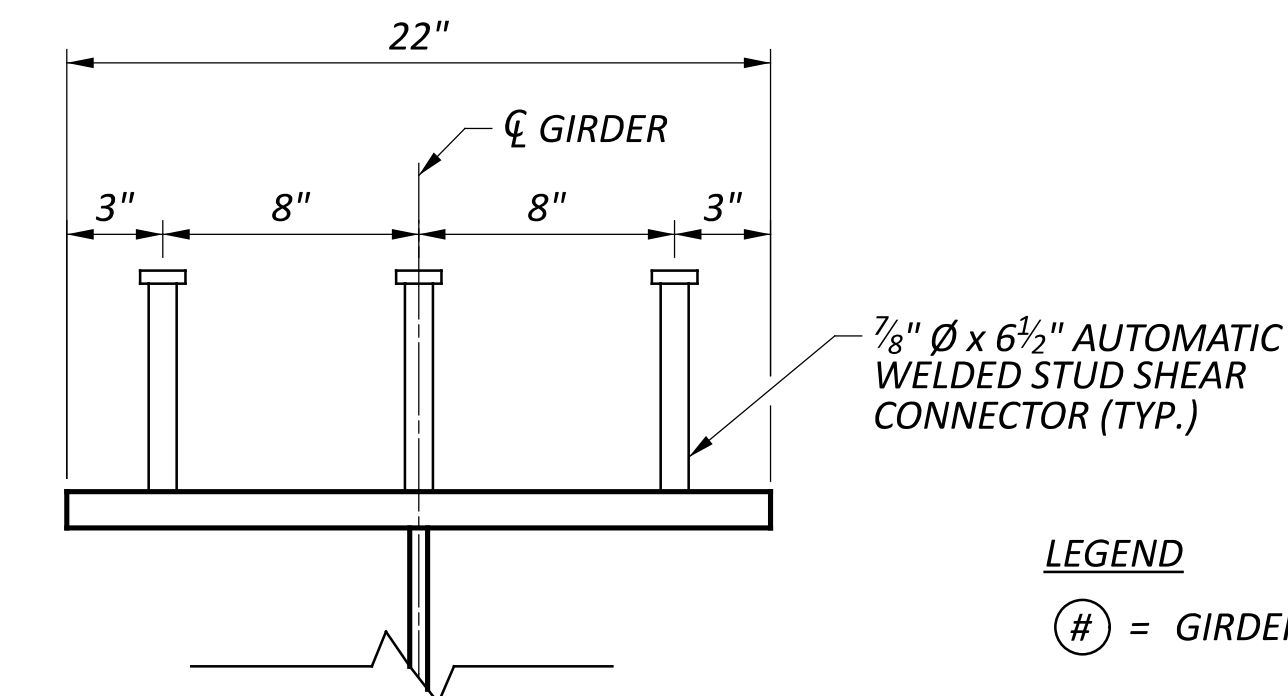
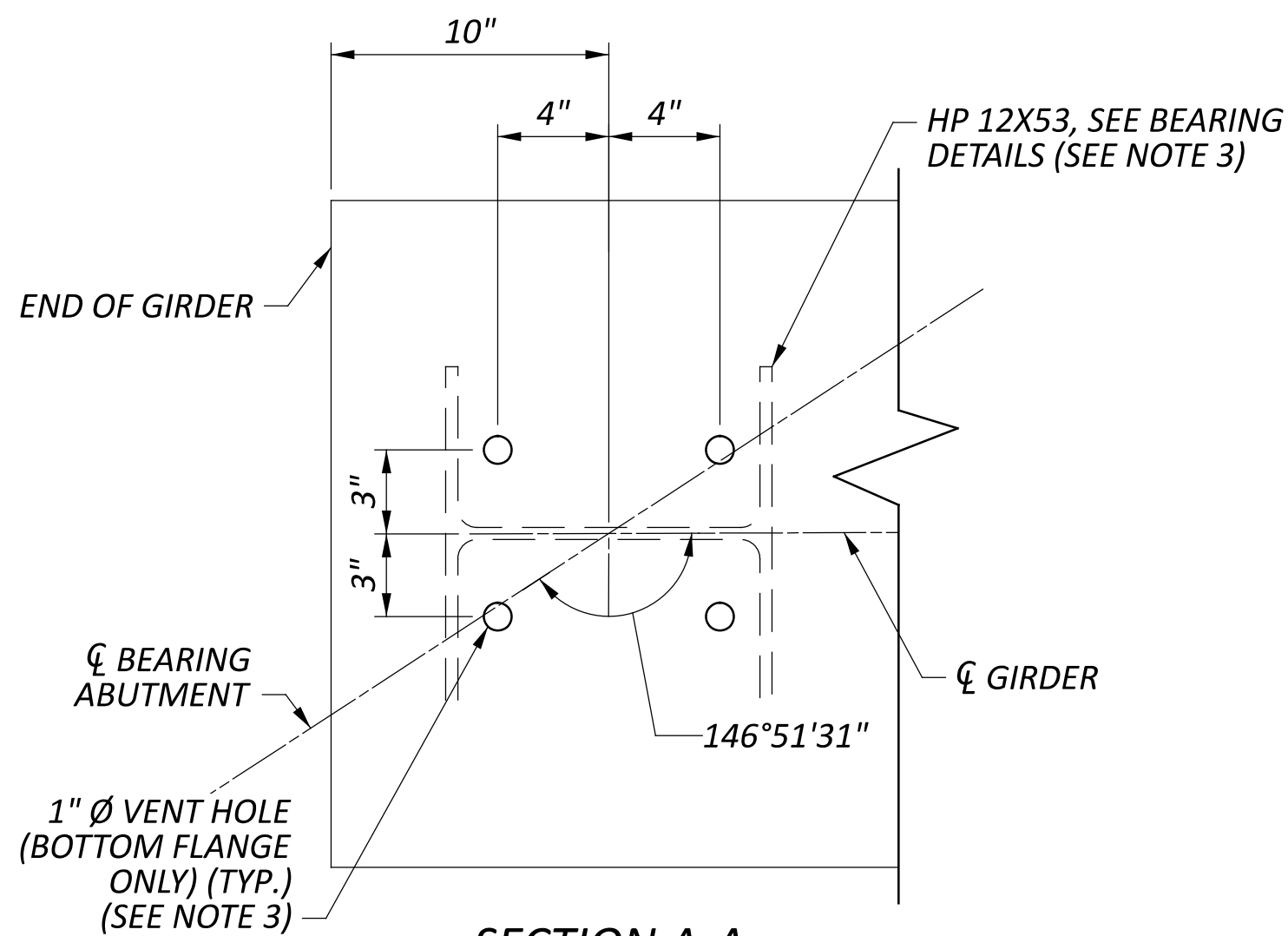
DESIGNER	BMV
REVIEWER	TJS
PROJECT ID	112998
SHEET	P.79
TOTAL	151



FRAMING PLAN



GIRDER ELEVATION



STUD SHEAR CONNECTOR DETAIL

LEGEND

= GIRDER LINE DESIGNATION

CP = INDICATES COMPLETE JOINT PENETRATION WELD

CS = INDICATES BUTT WELD SUBJECT TO COMPRESSIVE STRESS ONLY

NOTES:

- FOR FIELD SPLICE DETAILS, SEE SHEET 32 OF 51.
- FOR CAMBER AND DEFLECTION VALUES, SEE SHEET 35 OF 51.
- FOR BEARING AND VENT HOLE DETAILS, SEE SHEETS 28 OF 51 AND 29 OF 51.
- WELD ATTACHMENT OF SUPPORTS FOR CONCRETE DECK FINISHING MACHINE TO THE AREAS OF THE FASCIA STRINGER FLANGES DESIGNATED "COMPRESSION". DO NOT WELD ATTACHMENTS TO AREAS DESIGNATED "TENSION". FILLETS WELDS TO COMPRESSION FLANGES SHALL BE AT LEAST 1" FROM THE EDGE OF THE FLANGE, BE NO MORE THAN 2" LONG, AND BE AT LEAST 1/4" FOR THE THICKNESS UP TO 3/4" OR 5/16" FOR GREATER THAN 3/4" THICK.
- CVN: WHERE A SHAPE OR PLATE IS DESIGNATED (CVN), FURNISHED MATERIAL THAT MEETS THE MINIMUM NOTCH TOUGHNESS REQUIREMENTS AS SPECIFIED IN C&MS 711.01. ALL FLANGE AND WEB PLATES, INCLUDING FIELD SPLICE PLATES, SHALL BE DESIGNATED (CVN).
- STUD SHEAR CONNECTORS SHALL NOT BE LOCATED OVER FLANGE TRANSITIONS.
- FOR STEEL DETAILS, SEE SHEET 33 OF 51.
- PARTIAL PAINTING OF A709 GRADE 50W STEEL: SHOP PRIME PER CMS 708.01 THE LAST 5'-6" OF EACH GIRDER END ADJACENT TO THE ABUTMENTS, INCLUDING ALL DIAPHRAGMS AND OTHER STEEL WITHIN THESE LIMITS. PAYMENT FOR THE PRIME COAT SHALL BE INCLUDED FOR PAYMENT WITH ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL 4.