

VICINITY MAP

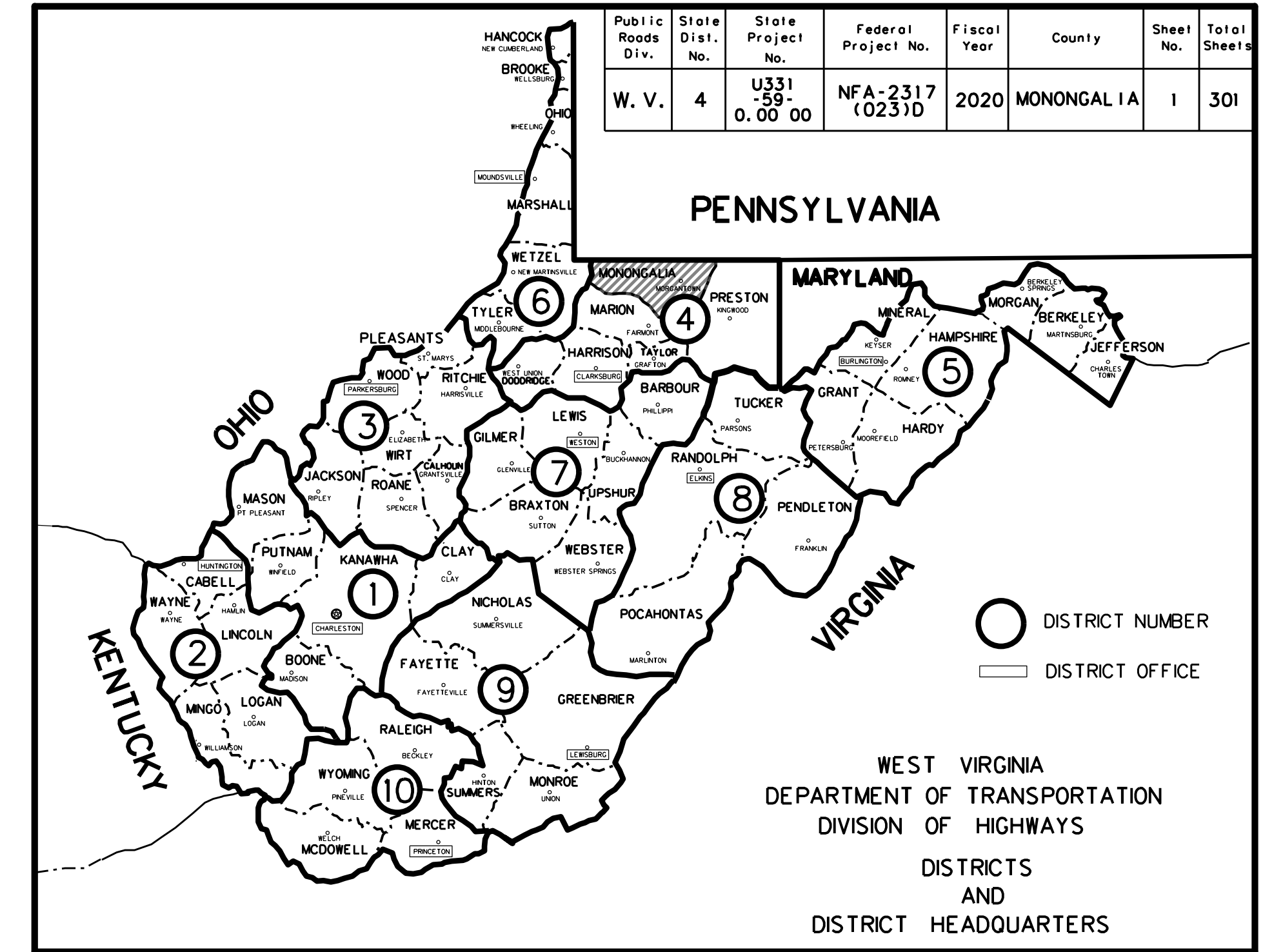
WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS CONSTRUCTION PLANS

OF
STATE HIGHWAY

FEDERAL PROJECT NO. NFA-2317(023)D
STATE PROJECT NO. U331-59-0.00 00
ROUTE NO. (CR) 59
MORGAN DISTRICT
MONONGALIA COUNTY

VAN VOORHIS ROAD

	BEGIN	END	FT	MLE(S)
ROADWAY	0+180.0	41+43.51	4323.51	0.82
BRIDGE	41+43.51	42+07.83	64.32	0.01
ROADWAY	42+07.83	46+00.00	392.17	0.07
TOTAL PROJECT LENGTH			4,780.00	0.90

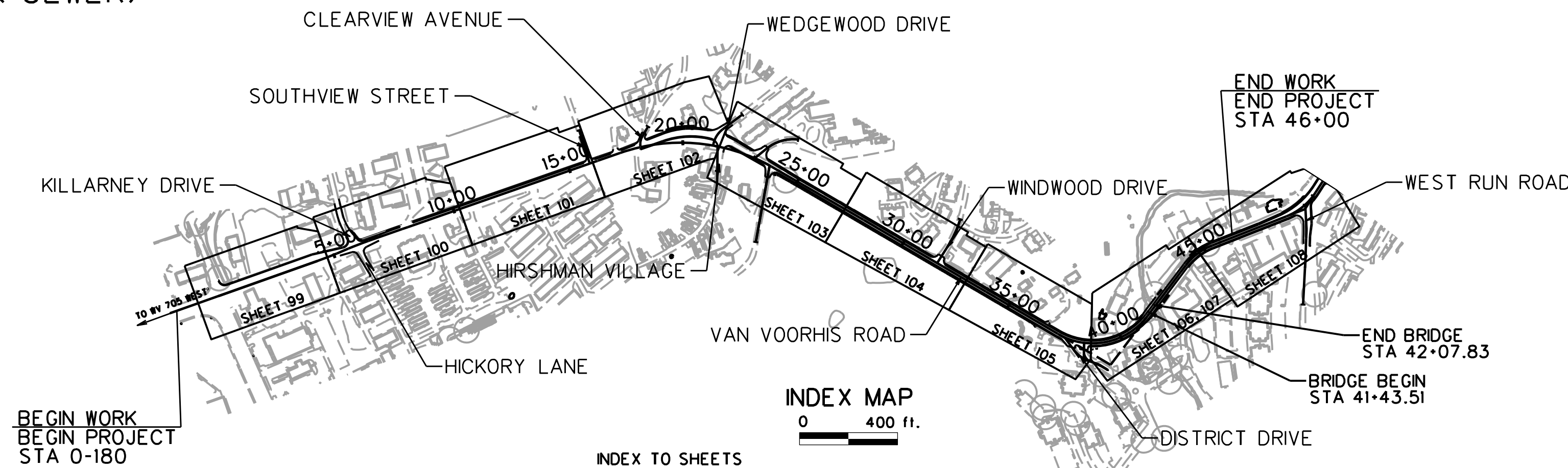


TYPE OF CONSTRUCTION

BRIDGE REPLACEMENT, PAVE, GRADE, DRAIN, SIGN, PAVEMENT MARKINGS, SIGNAL MODIFICATION, AND RETAINING WALLS

UTILITIES ENCOUNTERED

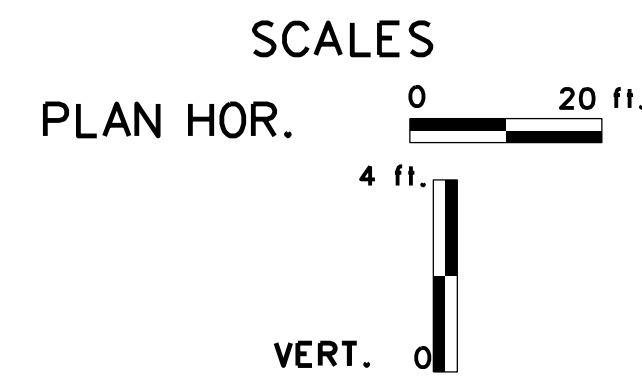
- MORGANTOWN UTILITY BOARD (WATER & SEWER)
- FIRST ENERGY (ELECTRIC)
- FRONTIER (TELEPHONE)
- LUMOS (CABLE)
- COMCAST (CABLE)
- VERIZON (TELEPHONE)
- DOMINION ENERGY (GAS)



INDEX MAP

INDEX TO SHEETS

NO.	DESCRIPTION
1	TITLE SHEET
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24	SUPERELEVATION TABLES
25-33	INTERSECTION DETAILS
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123-144	DRAINAGE PROFILE SHEETS
145-153	UTILITY RELOCATION PLANS
154-162	EROSION & SEDIMENT CONTROL PLANS
163-168	TRAFFIC SKETCH MAPS
169-178	PAVEMENT MARKING PLANS
179-193	SIGNING PLANS
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204	UTILITY RELOCATION INDEX
205-206	PROPERTY MAPS
207-220	SOIL AND GEOLOGIC INFORMATION PLANS
221-224	RETAINING WALL PLANS
225-240	BRIDGE PLANS
241-301	CROSS SECTIONS



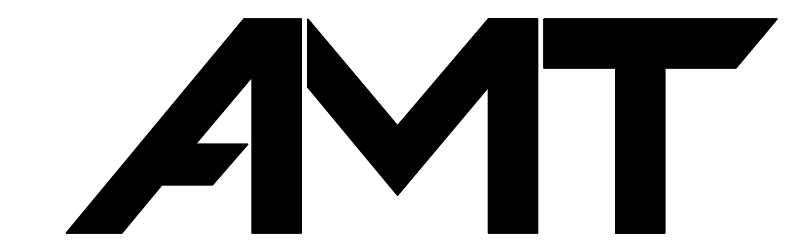
CONVENTIONAL SIGNS

- STATE LINE
- COUNTY LINE
- CORPORATION LINE
- PROPOSED R/W & EASEMENT LINE
- EXISTING R/W LINE
- PROPERTY LINE
- EXISTING FENCE
- PROPOSED FENCE
- EDGE OF STREAM
- PROPOSED GUARD RAIL
- EXISTING GUARD RAIL
- RAILROAD
- GAS LINE
- WATER LINE
- TELEPHONE LINE
- ELECTRIC LINE
- TELEPHONE POLE
- POWER POLE
- COMBINED POWER AND TELEPHONE POLE
- TREE
- SHRUB
- RIGHT OF WAY MARKER

DESIGN DESIGNATION

- A . D . T (2020+) 11.100
- A . D . T (2040+) 14.400
- D . H . V (K) 9%
- D (DIRECTIONAL) 55/45
- T (TRUCKS %) 2%
- V MAINLINE 30 MPH

PROJECT NO. U331-59-0.00 00, NFA-2317(023)D



A. MORTON THOMAS AND ASSOCIATES, INC.
CONSULTING ENGINEERS
417 GRAND PARK DRIVE, SUITE 104, PARKERSBURG, WV 26105
(304) 400-4952 FAX:(301) 881-0814

FINAL FIELD REVIEW PLANS

REVISION NUMBER	SHEET NUMBER	REVISIONS	DATE	BY

I HEREBY CERTIFY THAT THIS IS A CORRECT COPY OF THE PLANS

OF PROJECT U331-59-0.00 00, NFA-2317(023)D

EXECUTIVE SECRETARY

DAY OF _____, 20_____

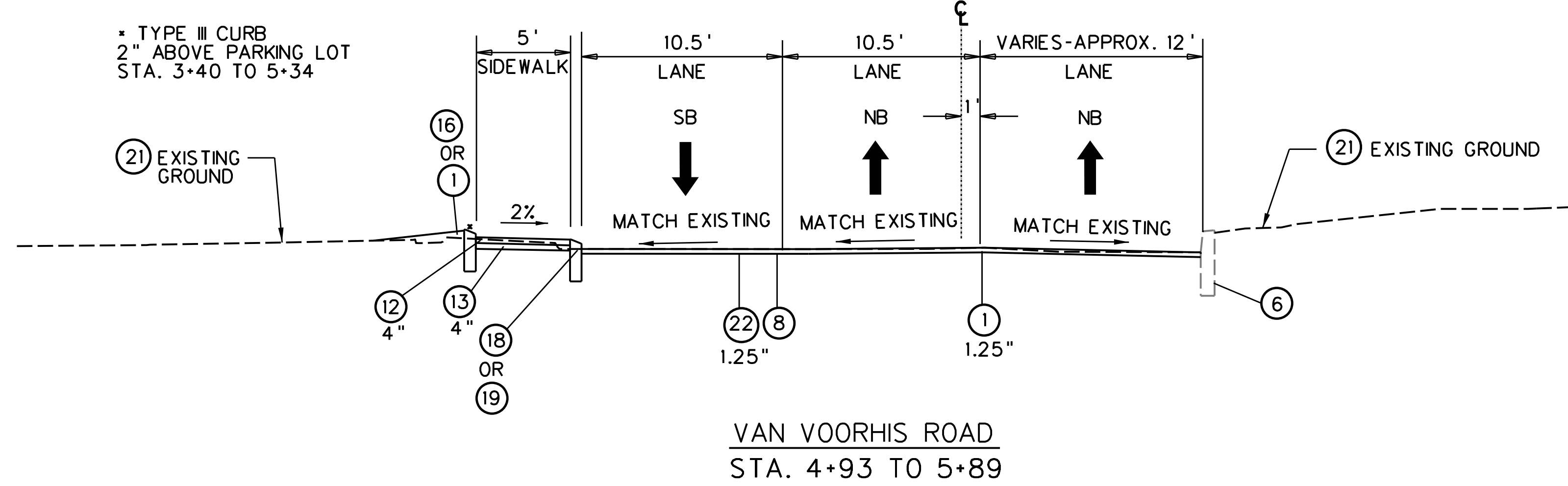
RECOMMENDED: _____ PROJECT MANAGER

RECOMMENDED FOR APPROVAL: _____ STATE HIGHWAY ENGINEER

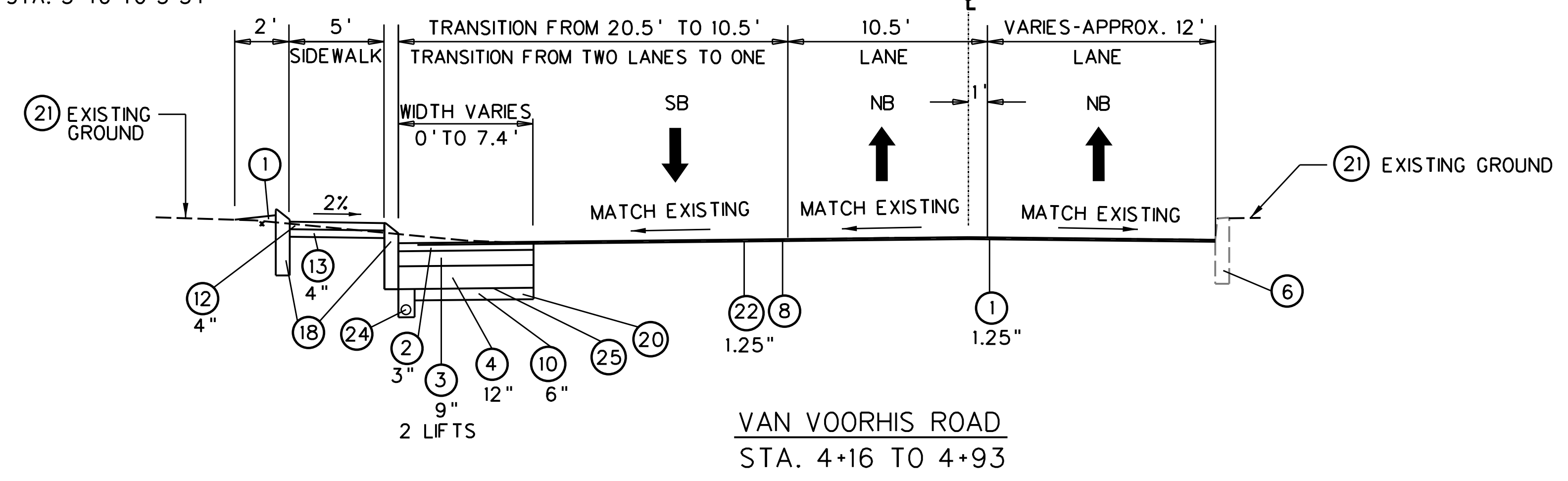
APPROVED: _____ COMMISSIONER OF HIGHWAYS

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0237D)	2020	MONONGALIA	2	301

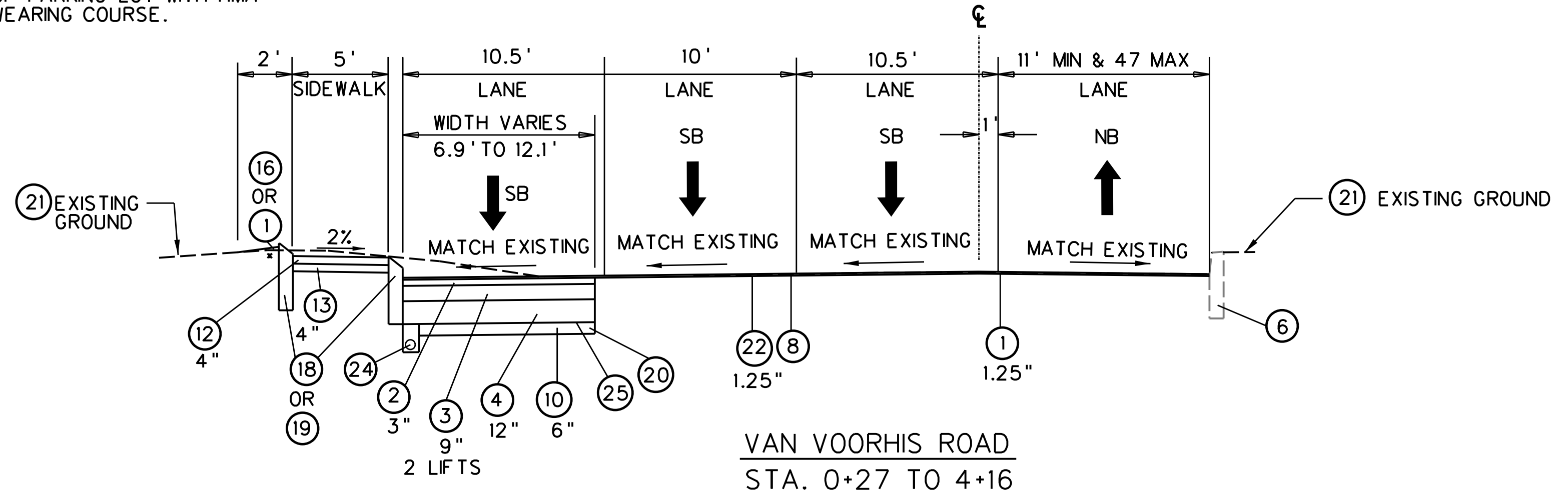
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2" ABOVE PARKING LOT
STA. 3+40 TO 5+34



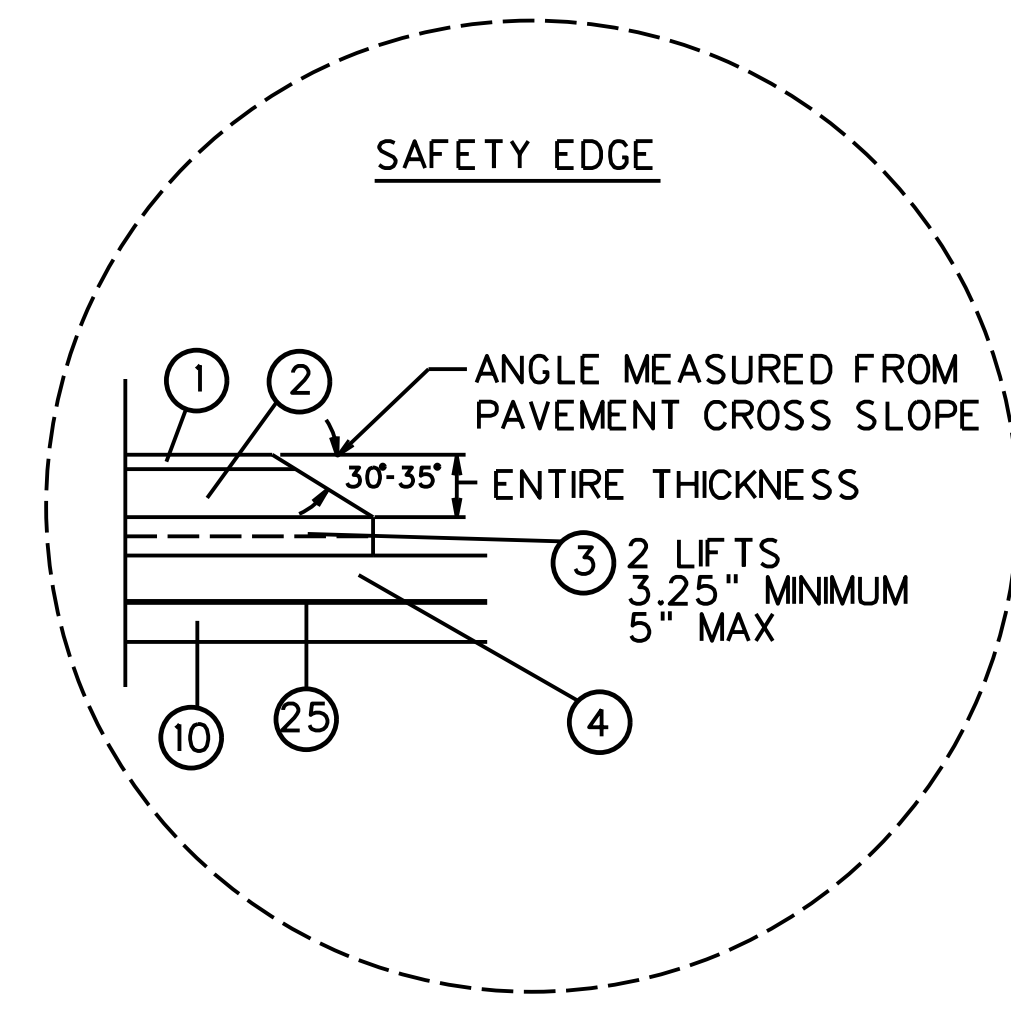
* TYPE III CURB
2" ABOVE PARKING LOT
STA. 3+40 TO 5+34




* TYPE II CURB
2" ABOVE PARKING LOT
STA. 3+40 TO 5+34
RESURFACE DAMAGED AREA
OF PARKING LOT WITH HMA
WEARING COURSE.



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- ② ITEM 402001-021 MARSHALL ASPHALT SKID RESISTANT PAVEMENT, S, TYPE I TONS
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- ⑮ ITEM 610003-004 TYPE IV COMBINATION CURB AND GUTTER
- ⑯ UNCLASSIFIED BORROW EXCAVATION C.Y.
- ⑰ ITEM 211008-000 ROCK BORROW EXCAVATION TN
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- ⑲ ITEM 610001-004 PLAIN CONCRETE CURBING, TYPE IV L.F.
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- ㉑ EXISTING GROUND
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- ㉔ ITEM 606027-004 6 INCH CORRUGATED POLYETHYLENE UNDERDRAIN PIPE L.F.
- ㉕ ITEM 207034-000 FABRIC FOR SEPARATION S.Y.
- ㉖ ITEM 601002-001 CLASS B CONCRETE C.Y.
- ㉗ ITEM 602001-001 REINFORCING STEEL BAR LB
- ㉘ 8½" CONCRETE DECK



SUBMITTED 6/29/2020

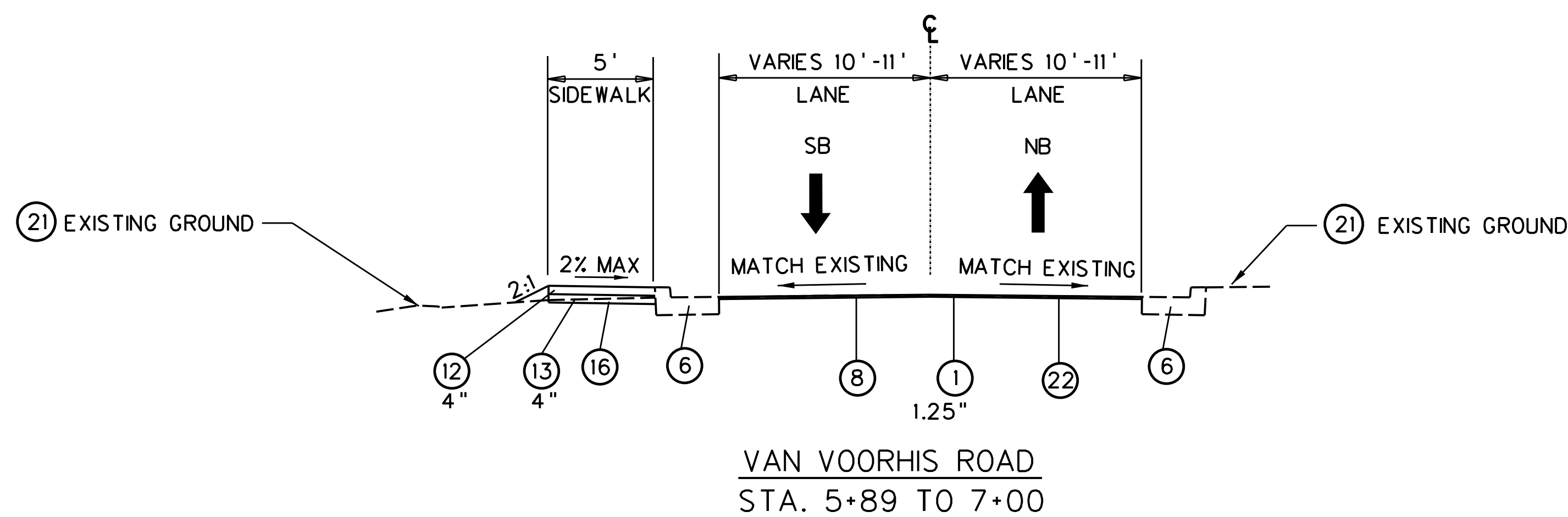
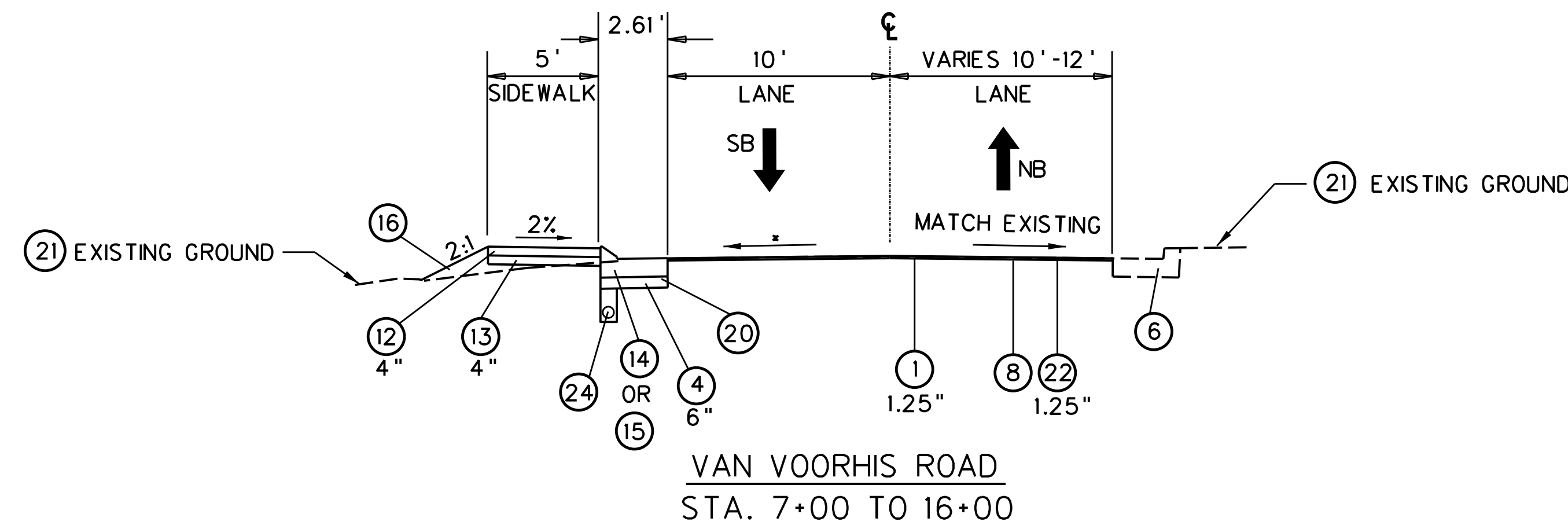
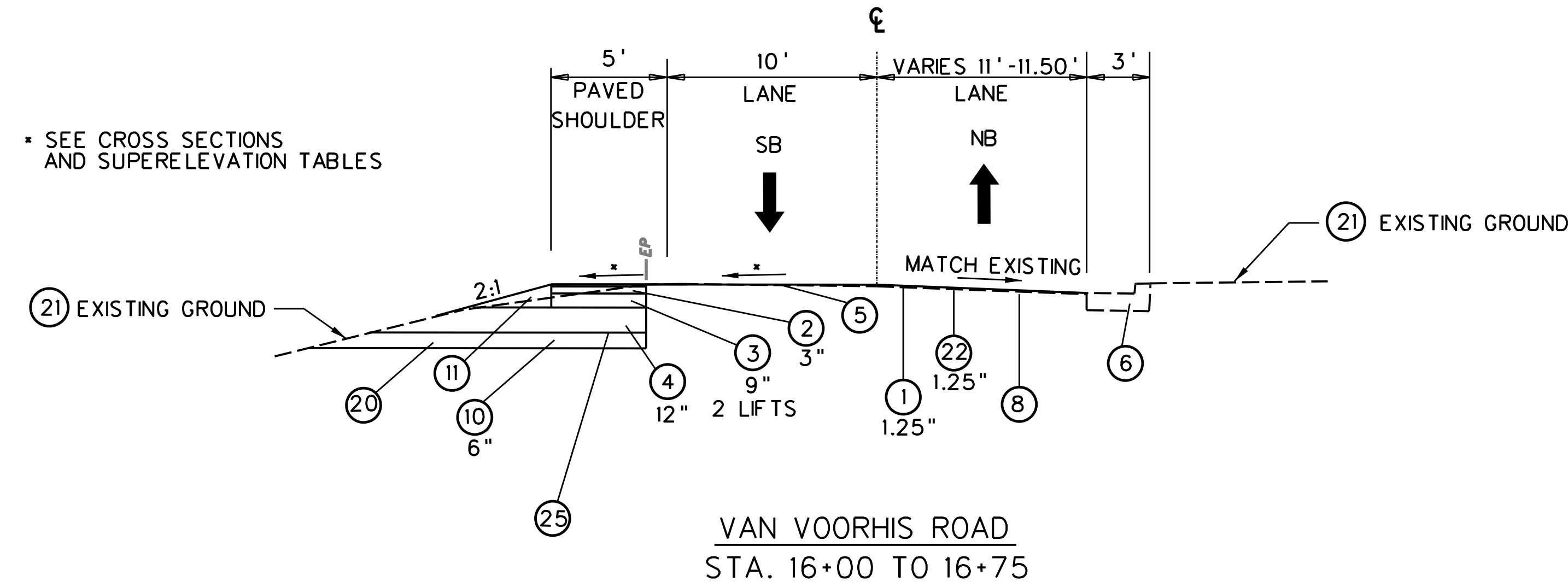


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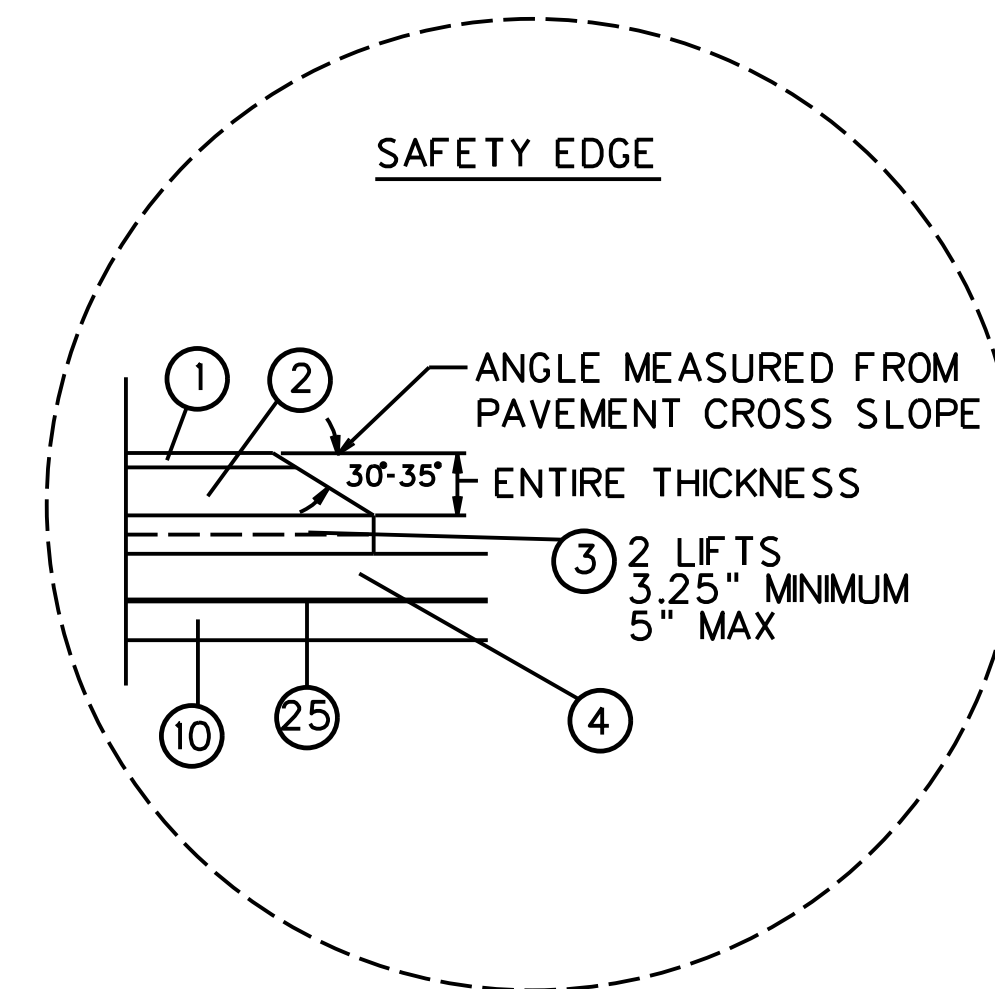
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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROADWAY TYPICAL SECTIONS

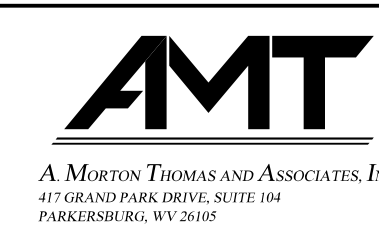


- | | | |
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NOTE: HEAVY MIX DESIGN 3,030,000 ESALS

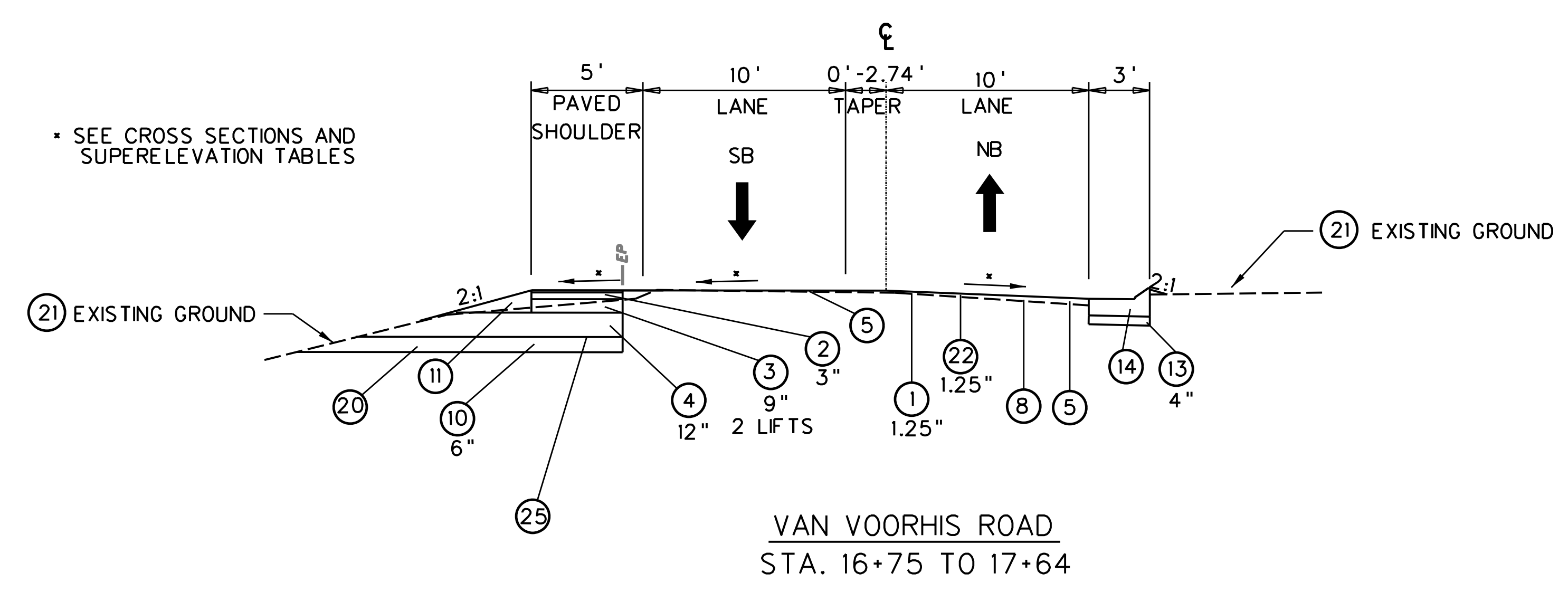
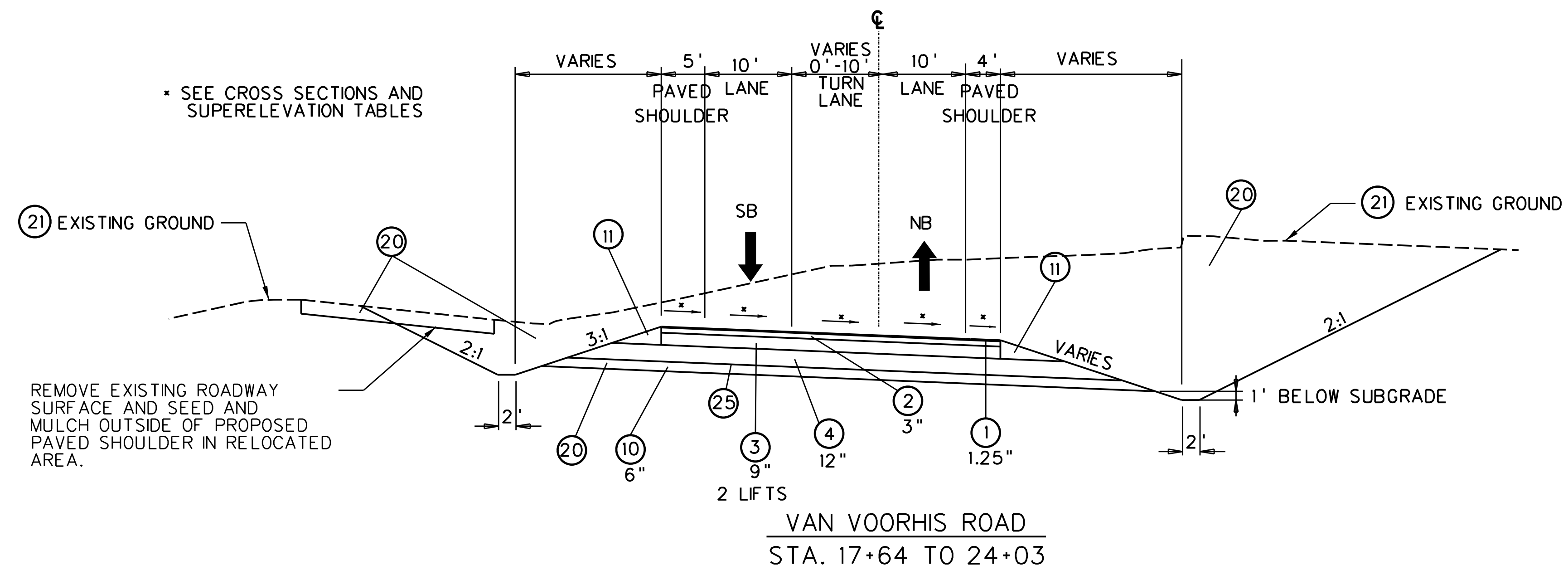
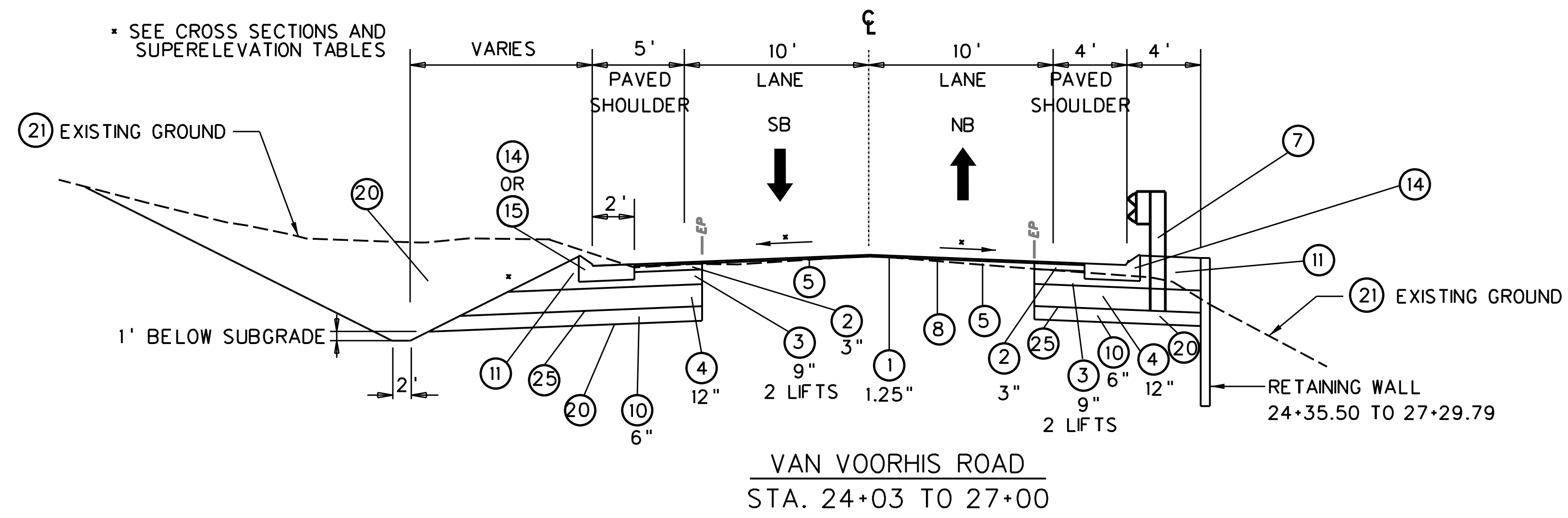
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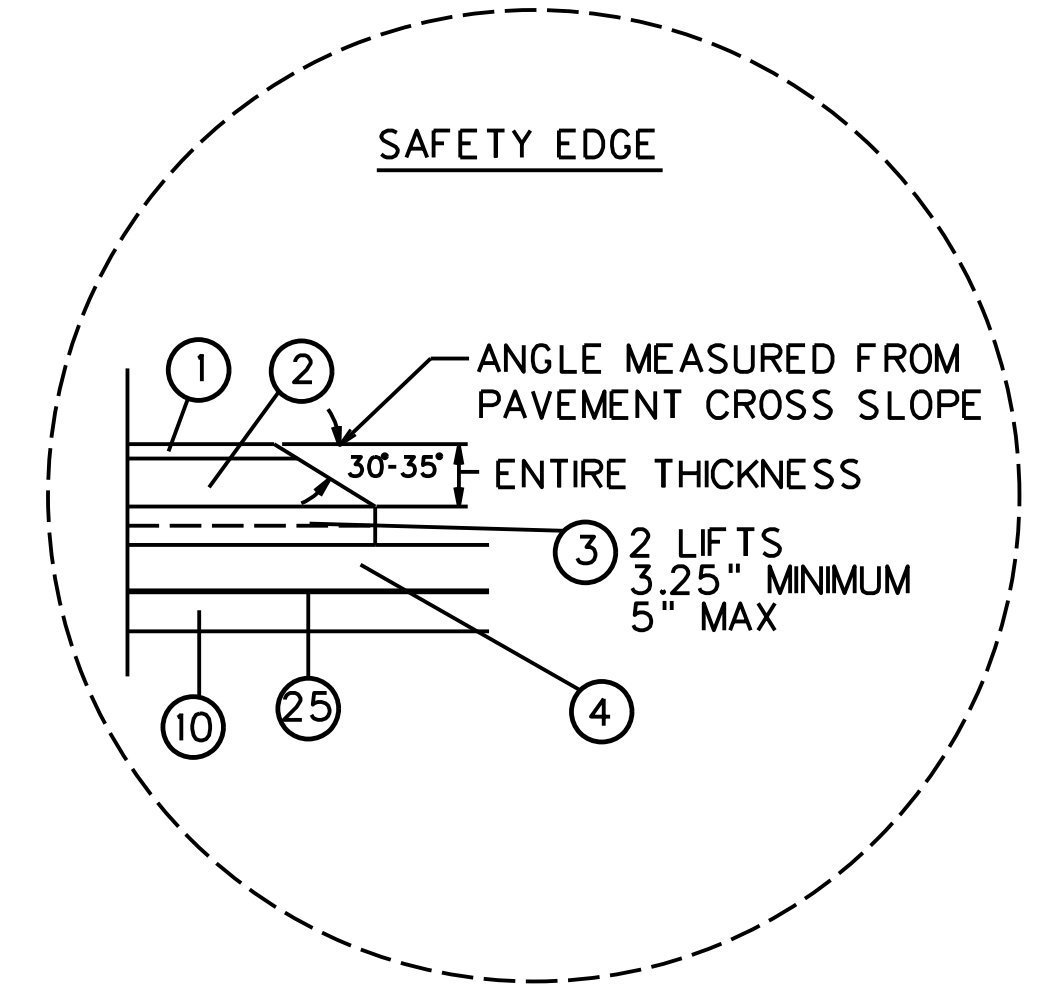
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DIVISION OF HIGHWAYS
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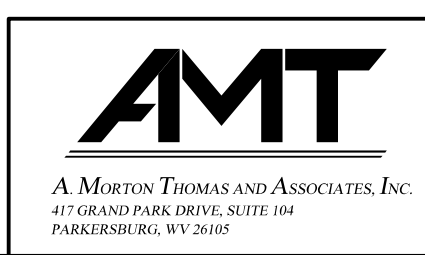


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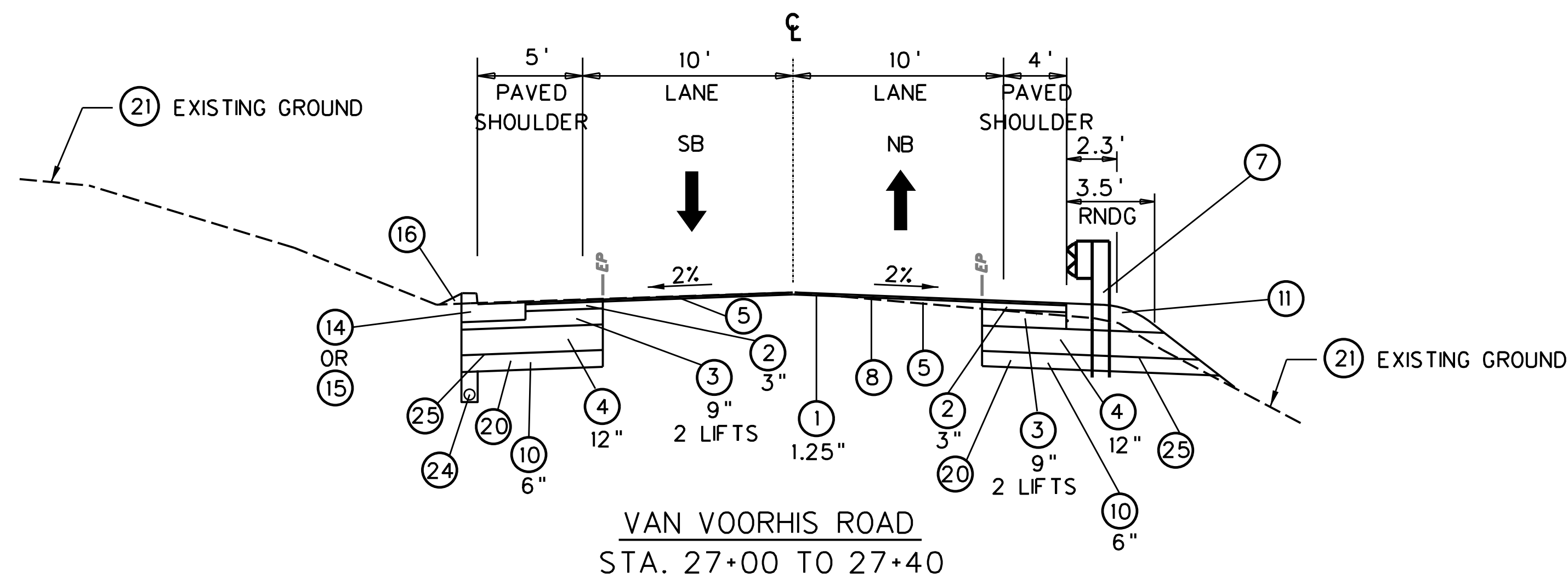
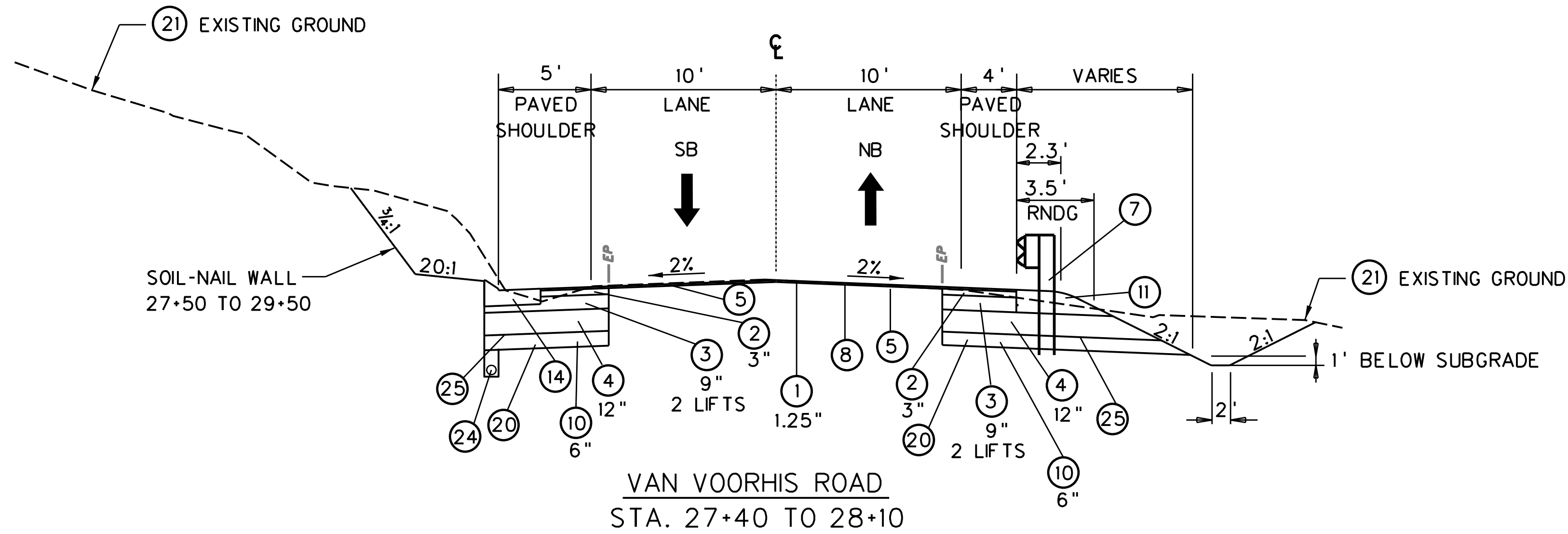
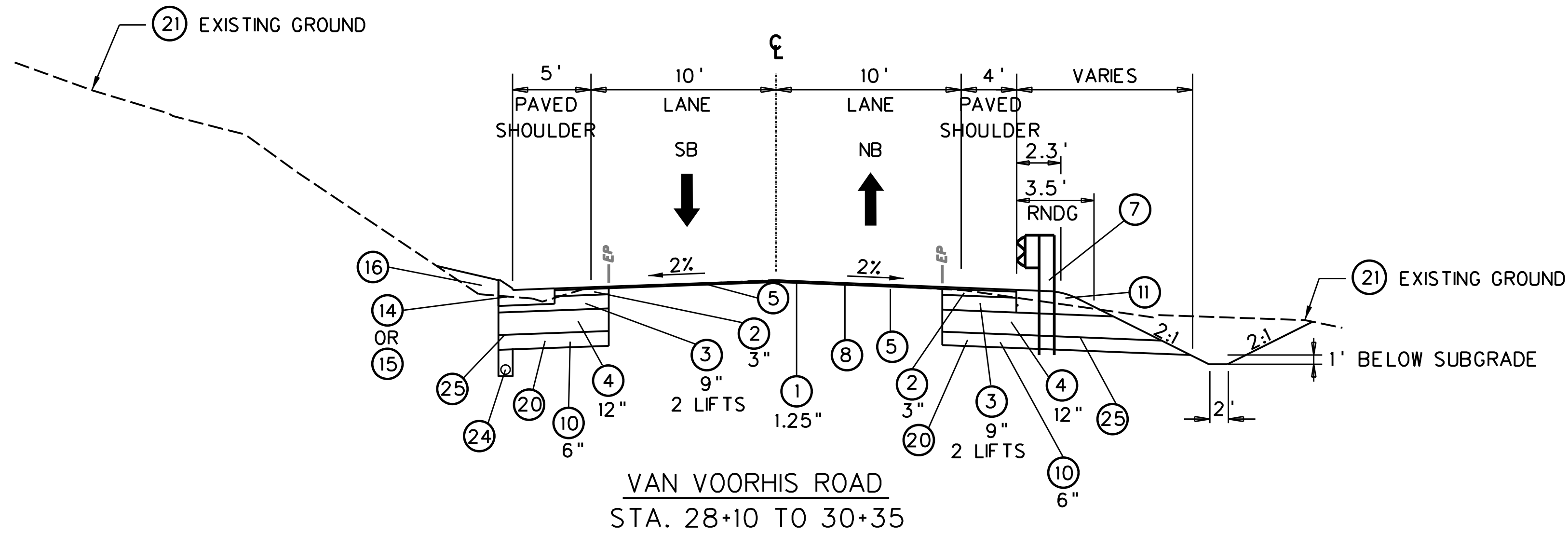
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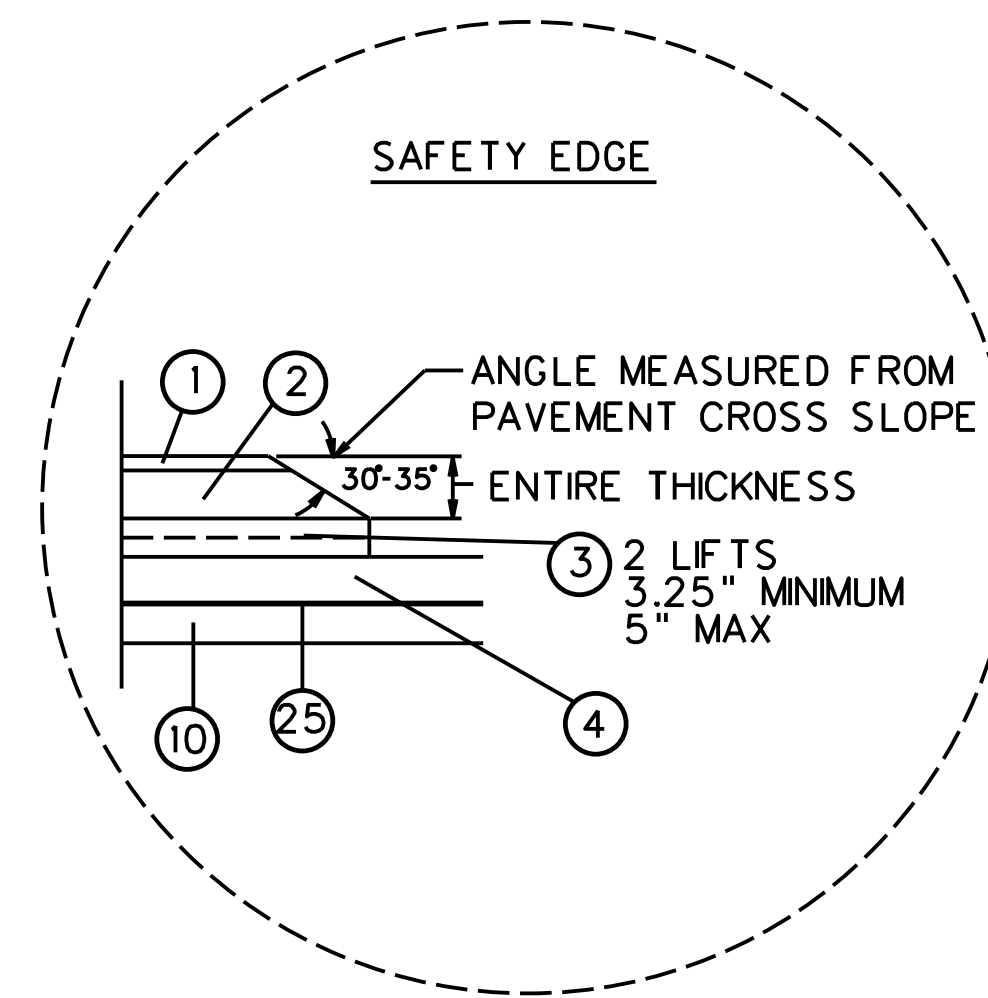
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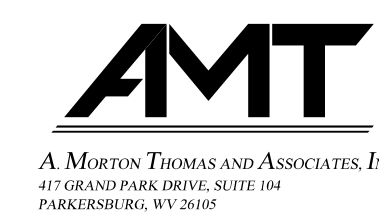


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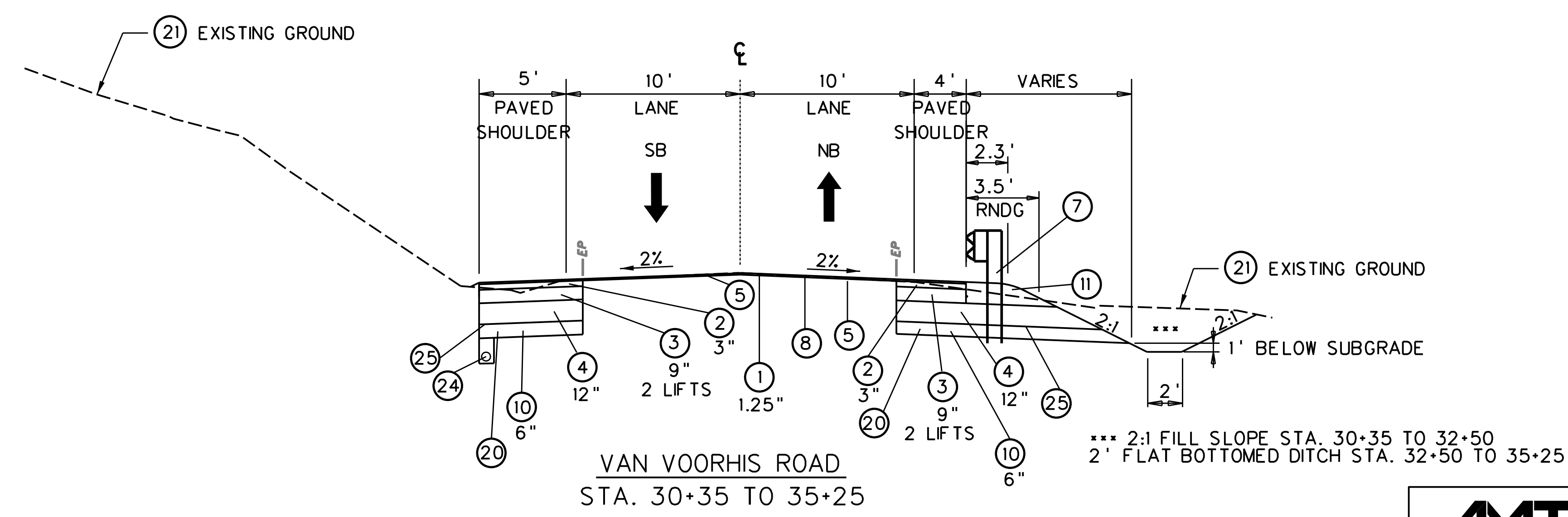
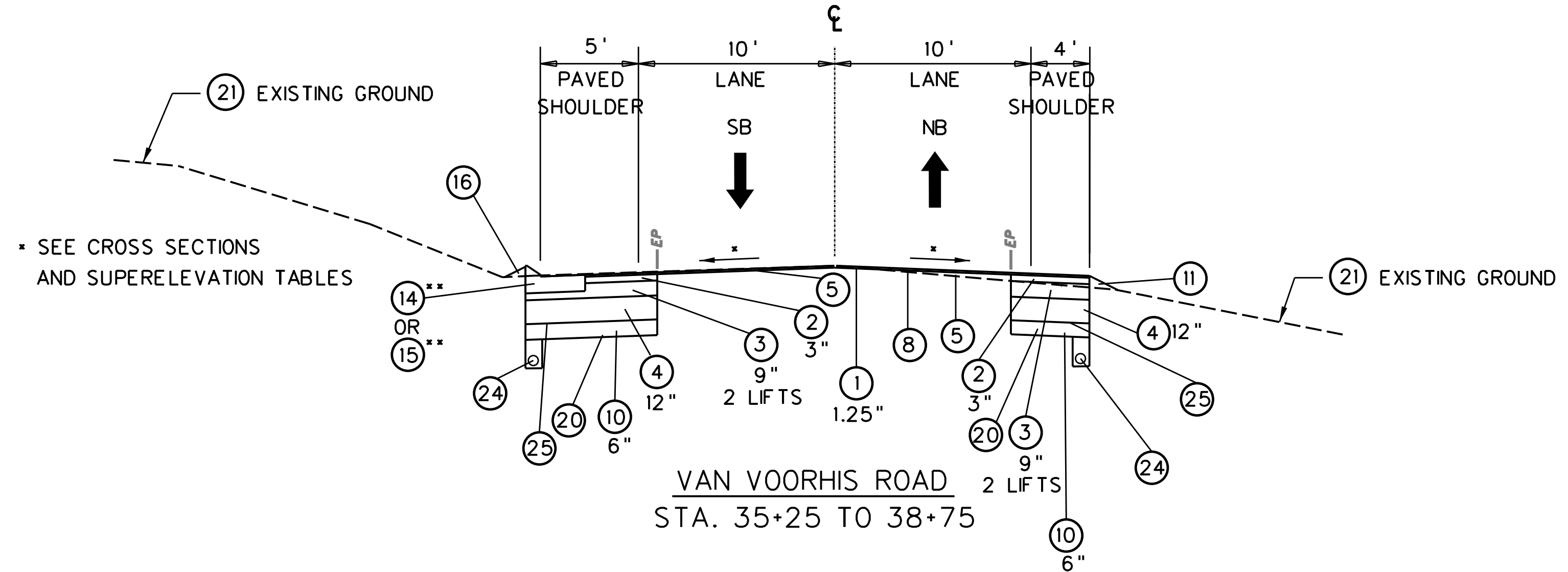
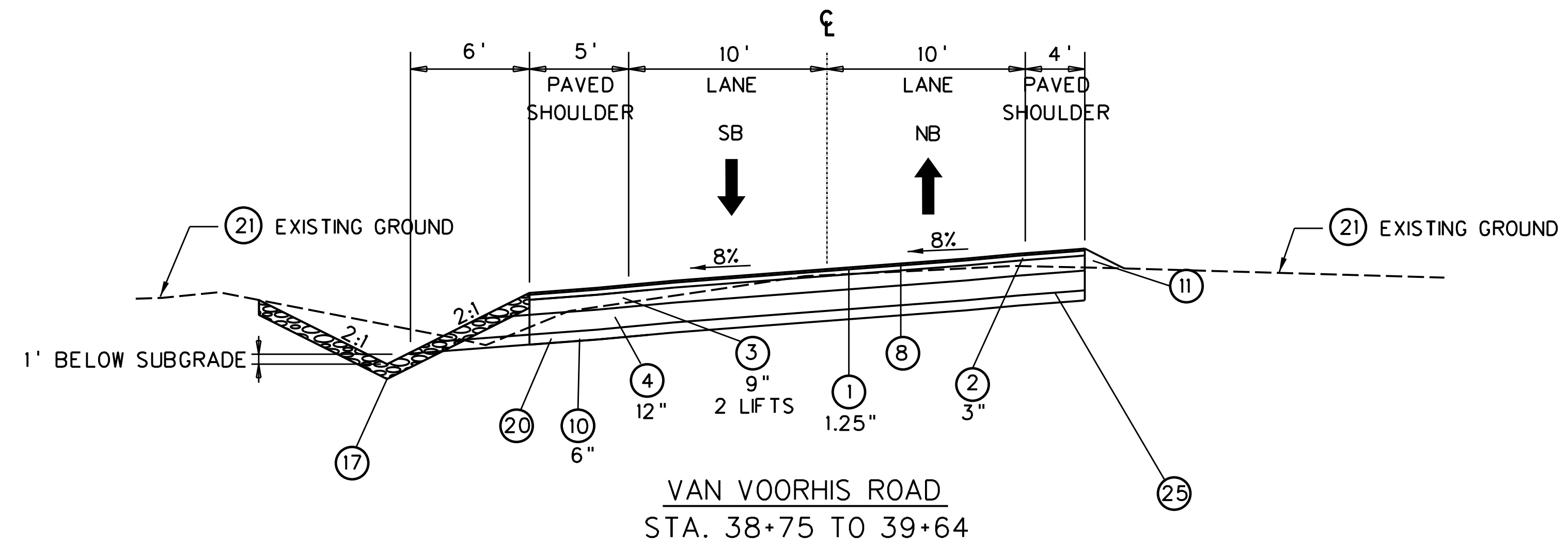
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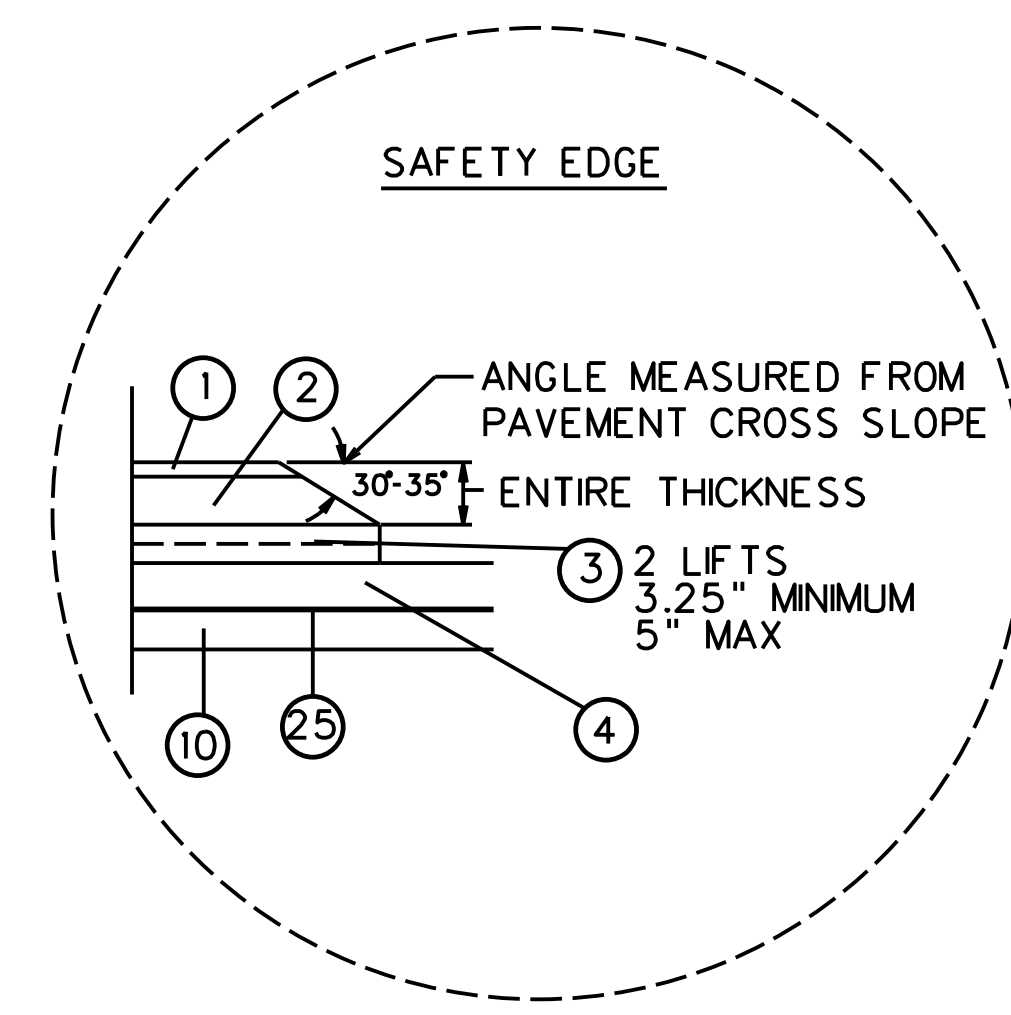


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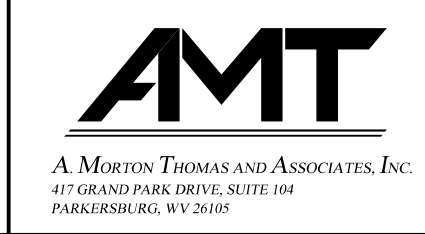
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROADWAY TYPICAL SECTIONS



- | | |
|--|--|
| <ul style="list-style-type: none"> ① ITEM 402001-020 ② ITEM 402001-021 ③ ITEM 401001-020 ④ ITEM 307001-000 ⑤ ITEM 401003-001 ⑥ ⑦ ITEM 607001-001 ⑧ ITEM 408002-001 ⑨ ITEM 610001-001 ⑩ ITEM 207002-000 ⑪ ITEM 307005-001 ⑫ ITEM 609001-001 ⑬ ITEM 609002-001 ⑭ ITEM 610003-002 ⑮ ITEM 610003-004 ⑯ ITEM 211001-000 ⑰ ITEM 211008-000 ⑱ ITEM 610001-002 ⑲ ITEM 610001-004 ⑳ ITEM 207001-001 ㉑ ㉒ ITEM 415005-001 ㉓ ITEM 502001-012 ㉔ ITEM 606027-004 ㉕ ITEM 207034-000 ㉖ ITEM 601002-001 ㉗ ITEM 602001-001 ㉘ | <ul style="list-style-type: none"> MARSHALL ASPHALT SKID RESISTANT PAVEMENT, SG, TYPE I TONS MARSHALL ASPHALT SKID RESISTANT PAVEMENT, S, TYPE I TONS MARSHALL ASPHALT BASE CRSE, SG, TYPE II TONS MARSHALL ASPHALT BASE CRSE, S, TYPE II TONS MARSHALL ASPHALT BASE CRSE, SG, TYPE I TONS MARSHALL ASPHALT BASE CRSE, S, TYPE I TONS AGGREGATE BASE COURSE, SG, CLASS I C.Y. MARSHALL ASPHALT PATCHING AND LEVELING COURSE, SG MARSHALL ASPHALT PATCHING AND LEVELING COURSE, S EXISTING CURB/CURB AND GUTTER TYPE I GUARDRAIL L.F. ASPHALT MATERIAL GAL PLAIN CONCRETE CURBING, TYPE I L.F. SUBGRADE C.Y. AGGREGATE BASE COURSE, SG, CLASS 10 TONS 4 INCH CONCRETE SIDEWALK, S.Y. 4 INCH BED COURSE MATERIAL C.Y. TYPE II COMBINATION CURB AND GUTTER TYPE IV COMBINATION CURB AND GUTTER UNCLASSIFIED BORROW EXCAVATION C.Y. ROCK BORROW EXCAVATION TN PLAIN CONCRETE CURBING, TYPE II L.F. PLAIN CONCRETE CURBING, TYPE IV L.F. UNCLASSIFIED EXCAVATION C.Y. EXISTING GROUND STANDARD MILLING S.Y. 12 INCH PORTLAND CEMENT CONCRETE APPROACH SLAB S.Y. 6 INCH CORRUGATED POLYETHYLENE UNDERDRAIN PIPE L.F. FABRIC FOR SEPARATION S.Y. CLASS B CONCRETE C.Y. REINFORCING STEEL BAR LB 8½" CONCRETE DECK |
|--|--|

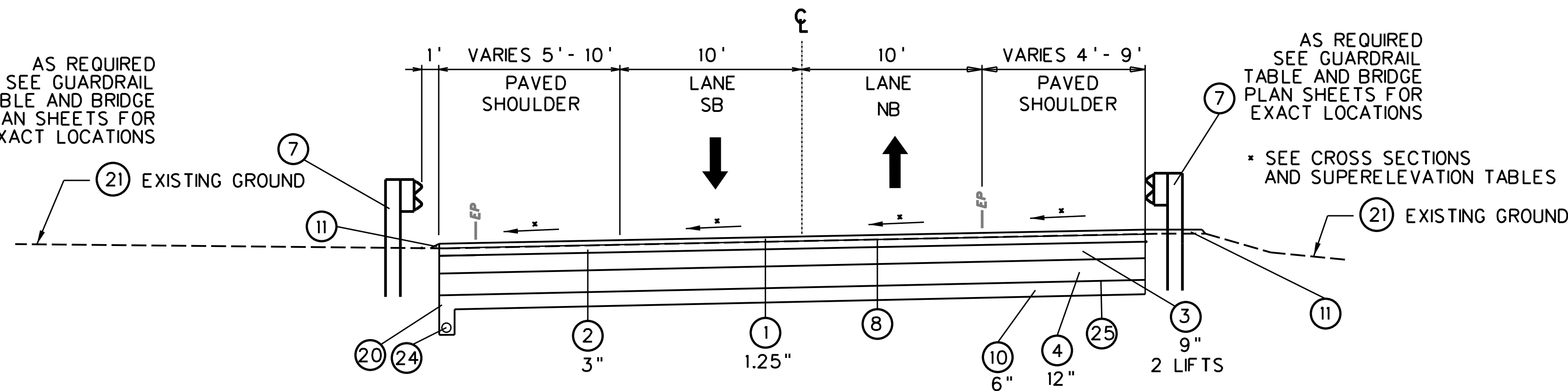


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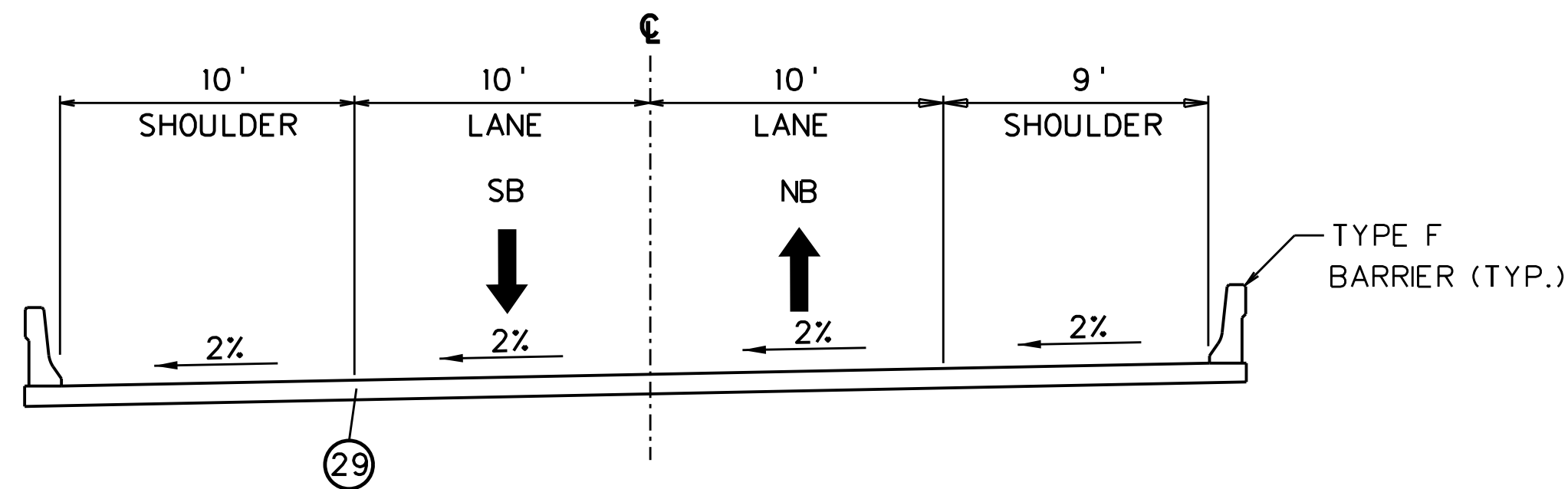


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

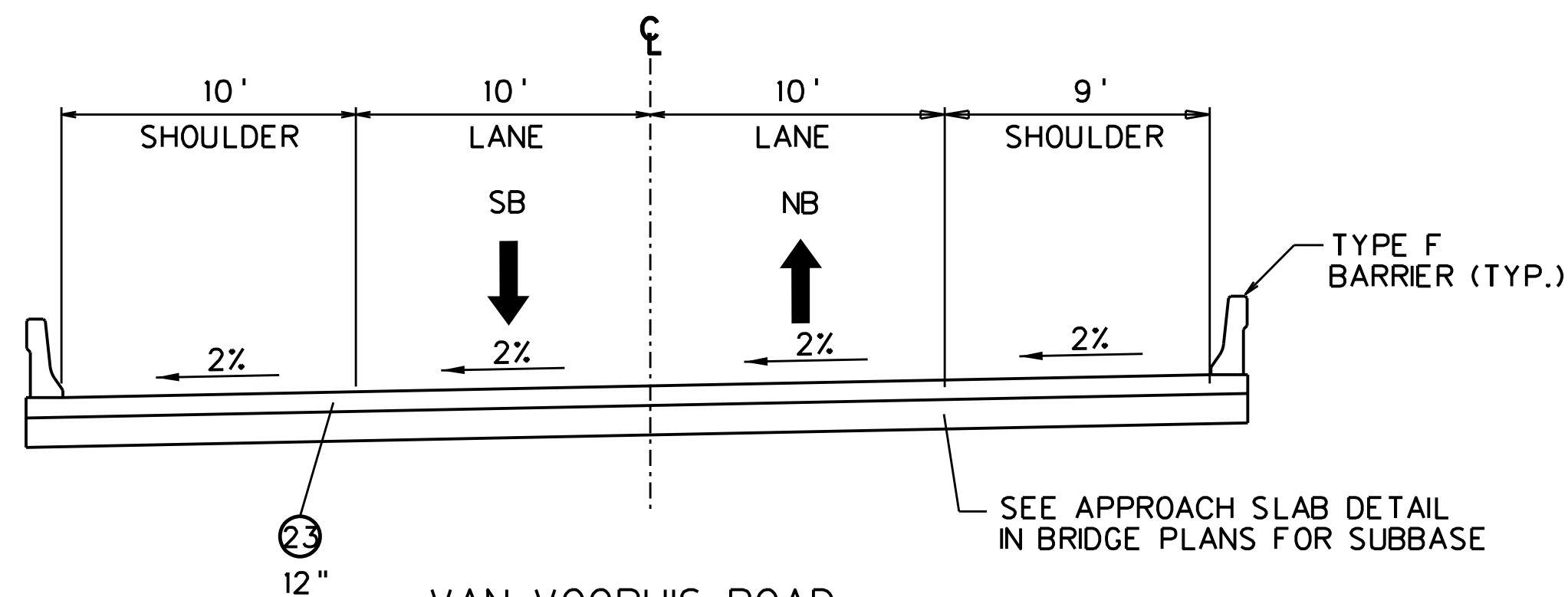
AS REQUIRED SEE GUARDRAIL TABLE AND BRIDGE PLAN SHEETS FOR EXACT LOCATIONS



VAN VOORHIS ROAD
STA. 42+27.83 TO 44+00

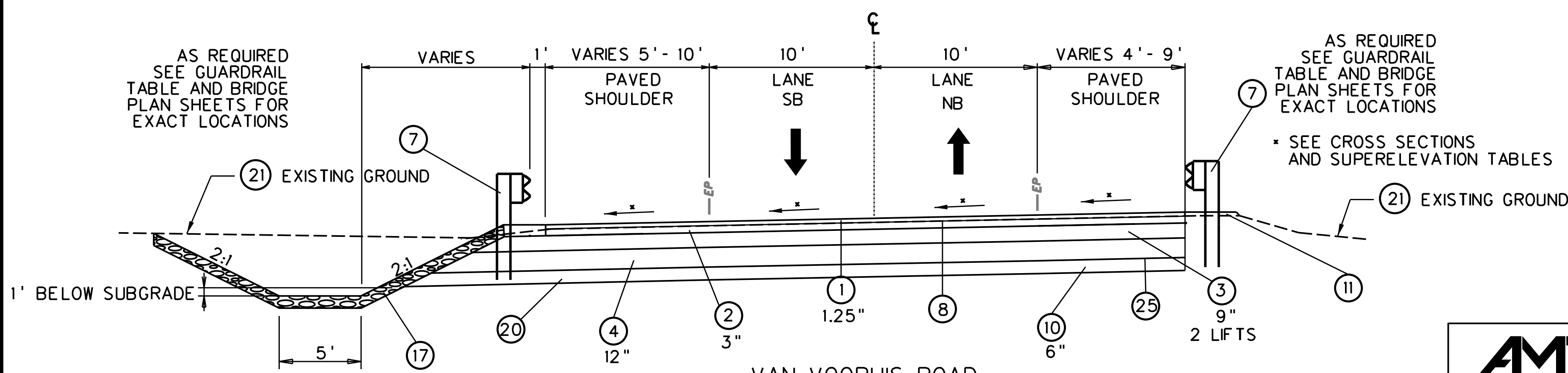


VAN VOORHIS ROAD
BRIDGE STRUCTURE
STA. 41+43.51 TO 42+07.83



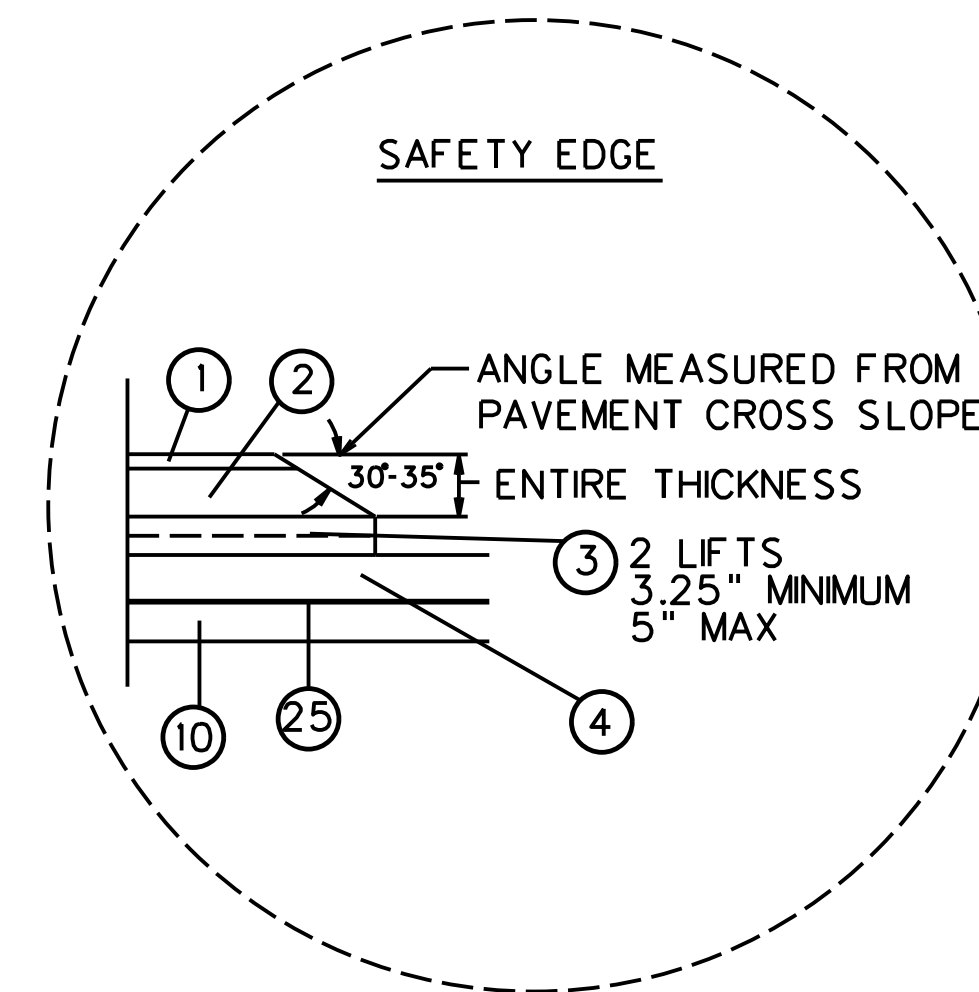
VAN VOORHIS ROAD
APPROACH SLABS
STA. 41+23.51 TO 41+43.51
STA. 42+07.83 TO 42+27.83

AS REQUIRED SEE GUARDRAIL TABLE AND BRIDGE PLAN SHEETS FOR EXACT LOCATIONS



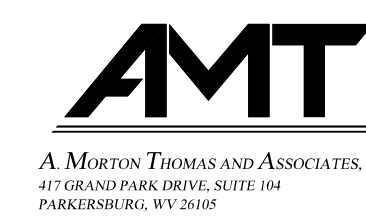
VAN VOORHIS ROAD
STA. 39+64 TO 41+23.51

- | | | |
|---|-----------------|---|
| ① | ITEM 402001-020 | MARSHALL ASPHALT SKID RESISTANT PAVEMENT, SG, TYPE I TONS |
| ② | ITEM 402001-021 | MARSHALL ASPHALT SKID RESISTANT PAVEMENT, S, TYPE I TONS |
| | ITEM 401001-023 | MARSHALL ASPHALT BASE CRSE, SG, TYPE II TONS |
| | ITEM 401001-024 | MARSHALL ASPHALT BASE CRSE, S, TYPE II TONS |
| ③ | ITEM 401001-020 | MARSHALL ASPHALT BASE CRSE, SG, TYPE I TONS |
| | ITEM 401001-021 | MARSHALL ASPHALT BASE CRSE, S, TYPE I TONS |
| ④ | ITEM 307001-000 | AGGREGATE BASE COURSE, SG, CLASS I C.Y. |
| ⑤ | ITEM 401003-001 | MARSHALL ASPHALT PATCHING AND LEVELING COURSE, SG |
| | ITEM 401003-002 | MARSHALL ASPHALT PATCHING AND LEVELING COURSE, S |
| ⑥ | | EXISTING CURB/CURB AND GUTTER |
| ⑦ | ITEM 607001-001 | TYPE I GUARDRAIL L.F. |
| ⑧ | ITEM 408002-001 | ASPHALT MATERIAL GAL |
| ⑨ | ITEM 610001-001 | PLAIN CONCRETE CURBING, TYPE I L.F. |
| ⑩ | ITEM 207002-000 | SUBGRADE C.Y. |
| ⑪ | ITEM 307005-001 | AGGREGATE BASE COURSE, SG, CLASS 10 TONS |
| ⑫ | ITEM 609001-001 | 4 INCH CONCRETE SIDEWALK, S.Y. |
| ⑬ | ITEM 609002-001 | 4 INCH BED COURSE MATERIAL C.Y. |
| ⑭ | ITEM 610003-002 | TYPE II COMBINATION CURB AND GUTTER |
| ⑮ | ITEM 610003-004 | TYPE IV COMBINATION CURB AND GUTTER |
| ⑯ | ITEM 211001-000 | UNCLASSIFIED BORROW EXCAVATION C.Y. |
| ⑰ | ITEM 211008-000 | ROCK BORROW EXCAVATION TN |
| ⑱ | ITEM 610001-002 | PLAIN CONCRETE CURBING, TYPE II L.F. |
| ⑲ | ITEM 610001-004 | PLAIN CONCRETE CURBING, TYPE IV L.F. |
| ⑳ | ITEM 207001-001 | UNCLASSIFIED EXCAVATION C.Y. |
| ㉑ | | EXISTING GROUND |
| ㉒ | ITEM 415005-001 | STANDARD MILLING S.Y. |
| ㉓ | ITEM 502001-012 | 12 INCH PORTLAND CEMENT CONCRETE APPROACH SLAB S.Y. |
| ㉔ | ITEM 606027-004 | 6 INCH CORRUGATED POLYETHYLENE UNDERDRAIN PIPE L.F. |
| ㉕ | ITEM 207034-000 | FABRIC FOR SEPARATION S.Y. |
| ㉖ | ITEM 601002-001 | CLASS B CONCRETE C.Y. |
| ㉗ | ITEM 602001-001 | REINFORCING STEEL BAR LB |
| ㉘ | | 8½" CONCRETE DECK |



NOTE: HEAVY MIX DESIGN 3,030,000 ESALS

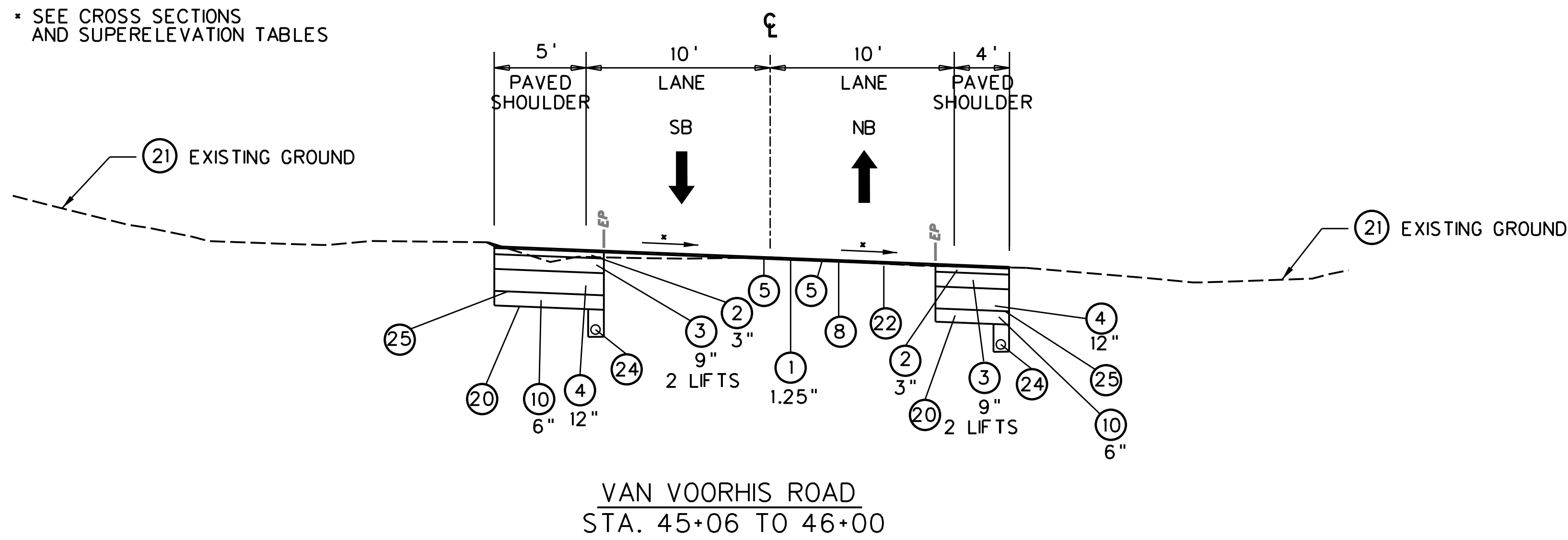
SUBMITTED 6/29/2020



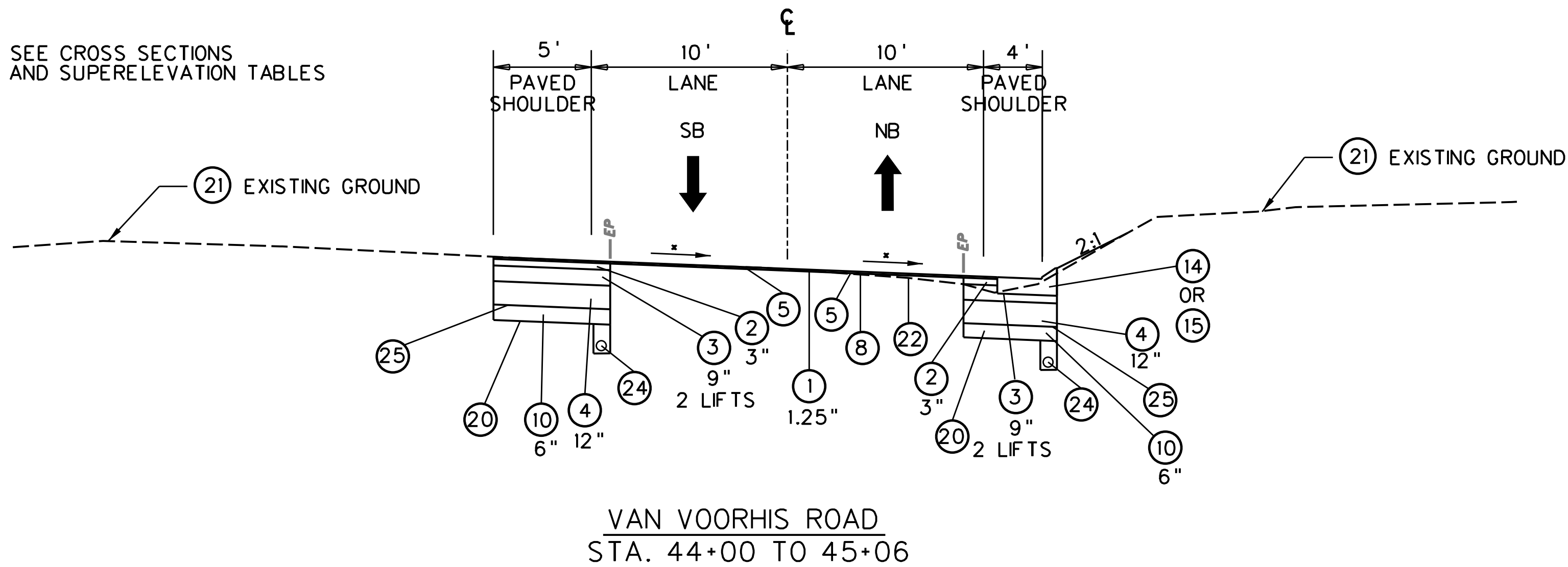
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROADWAY TYPICAL SECTIONS

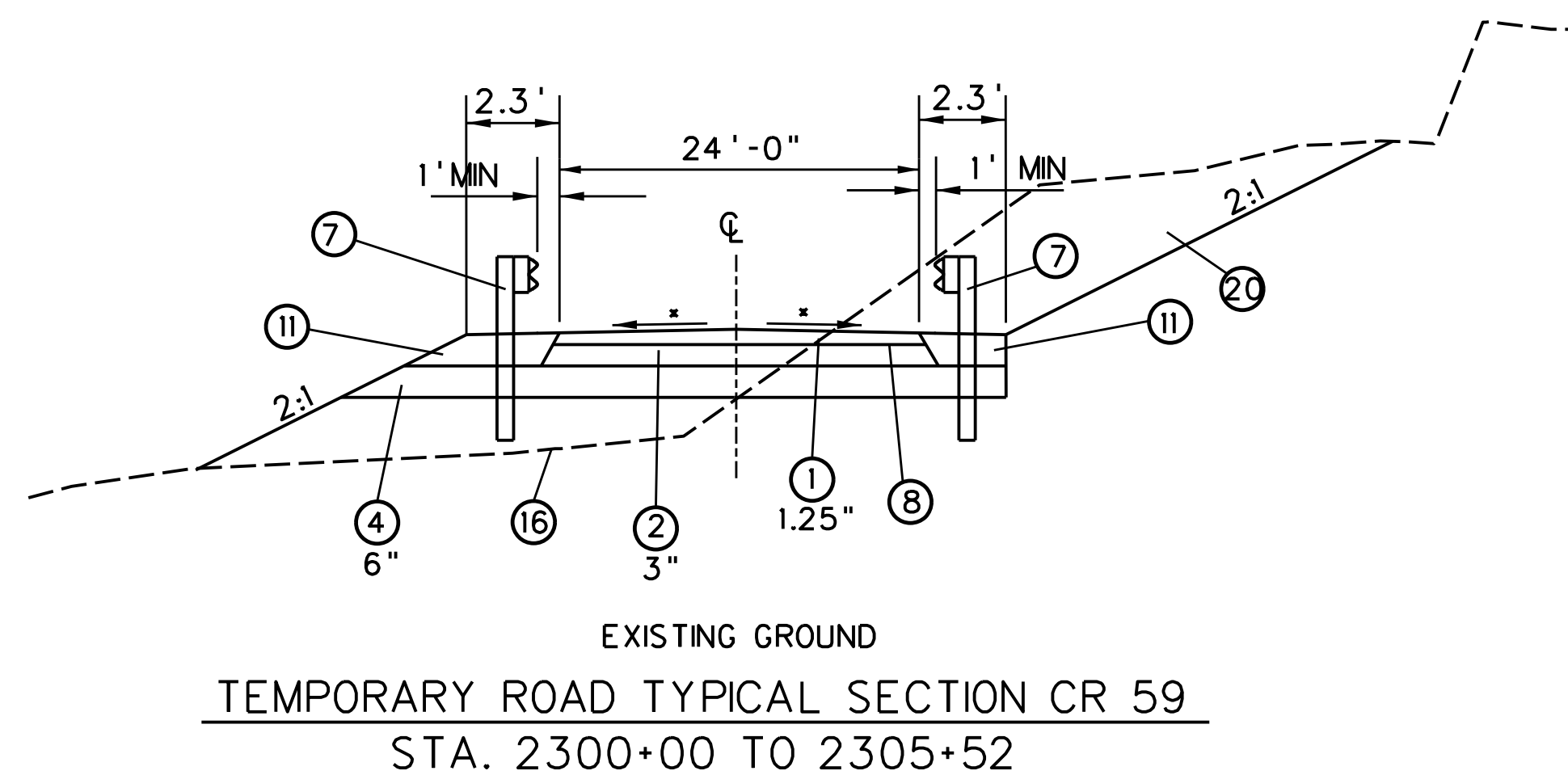
* SEE CROSS SECTIONS AND SUPERELEVATION TABLES



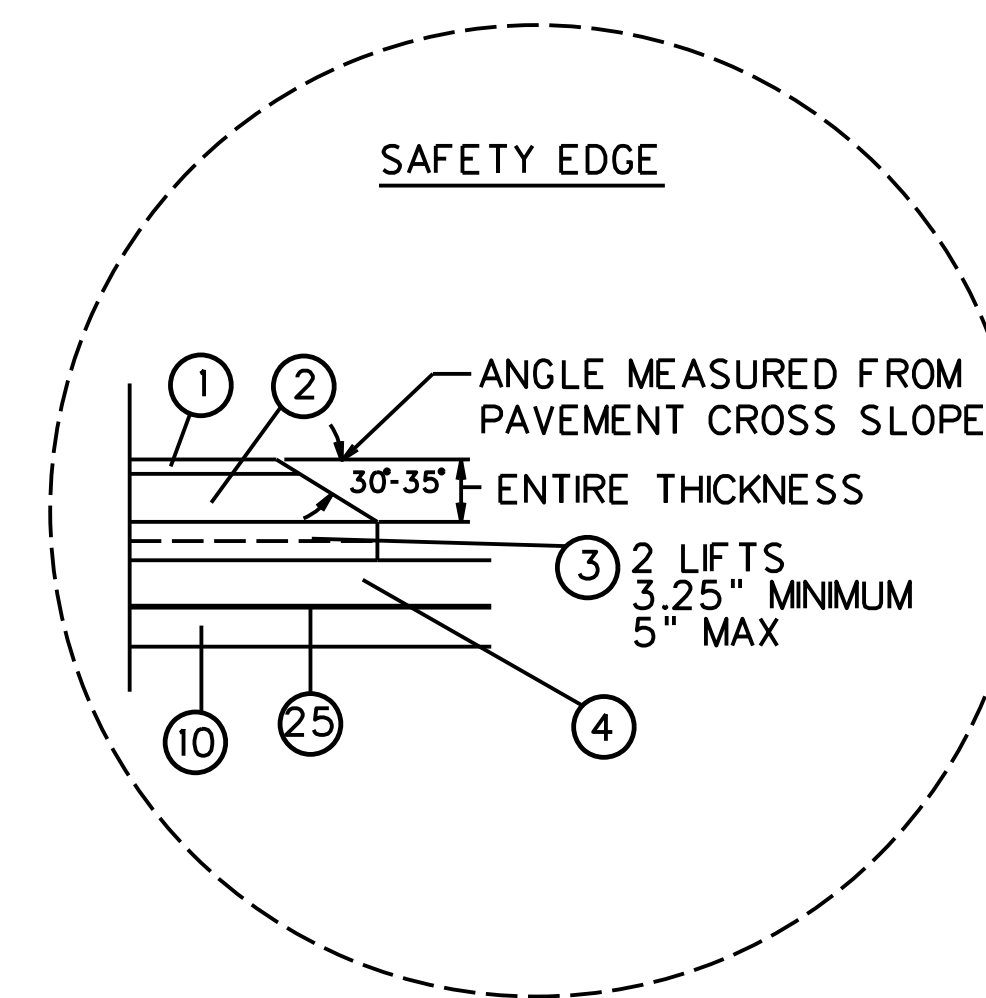
* SEE CROSS SECTIONS AND SUPERELEVATION TABLES



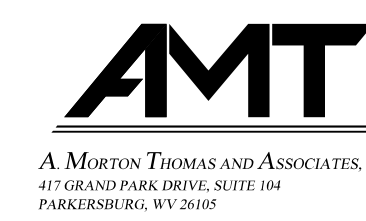
* SEE CROSS SECTIONS



- ① ITEM 402001-020 MARSHALL ASPHALT SKID RESISTANT PAVEMENT, SG, TYPE I TONS
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- ㉙ ITEM 602001-001 REINFORCING STEEL BAR LB
- ㉚ 8½" CONCRETE DECK



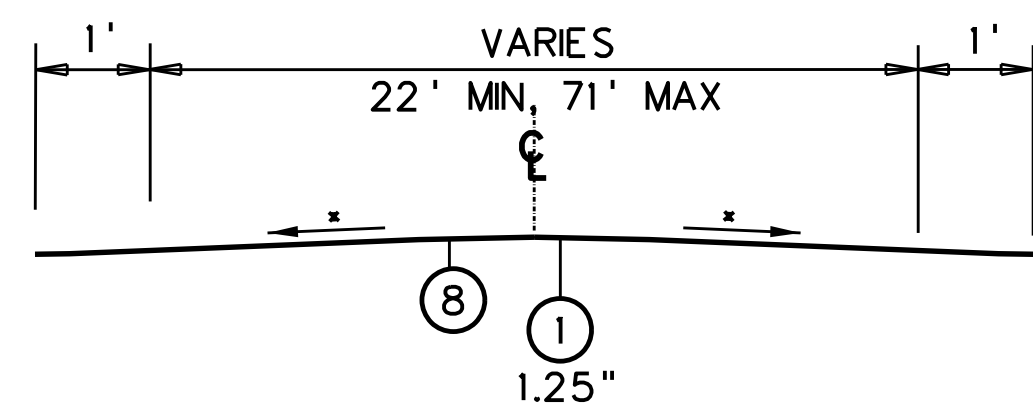
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REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROADWAY TYPICAL SECTIONS

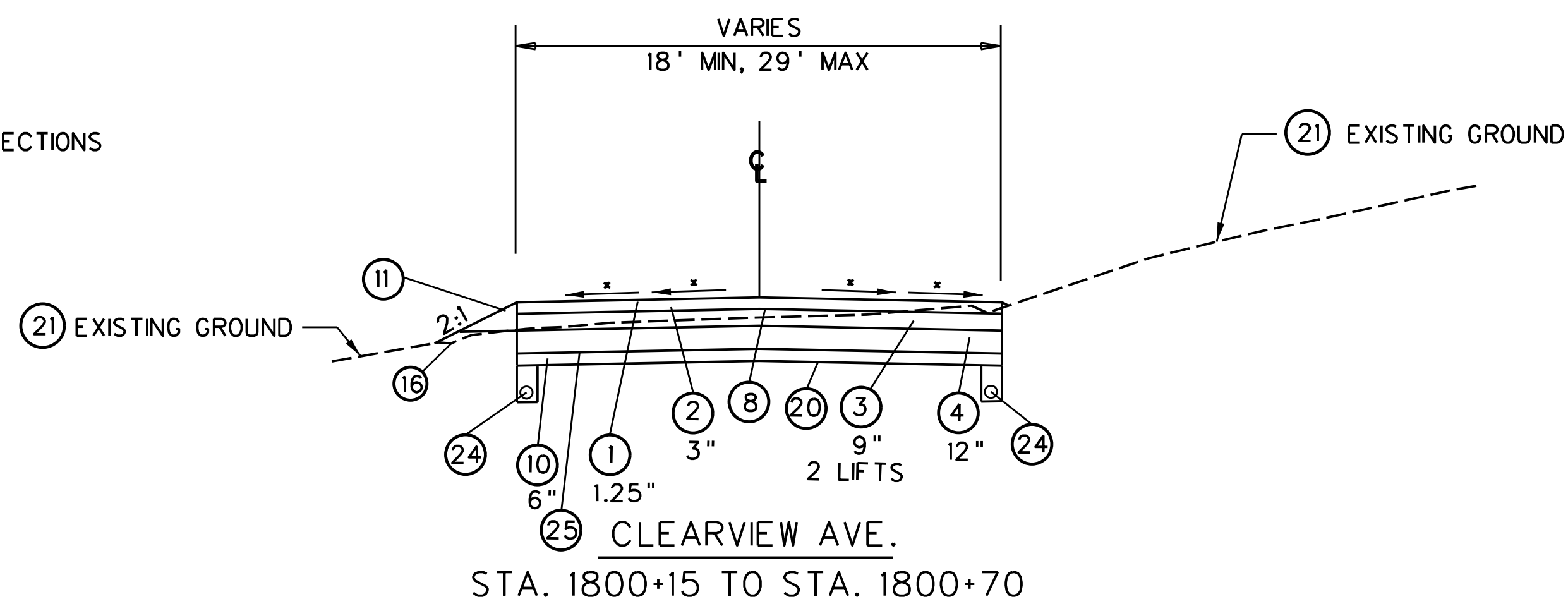
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-00.00	NFA-2317 (0237D)	2020	MONONGALIA	9	301



* SEE CROSS SECTIONS

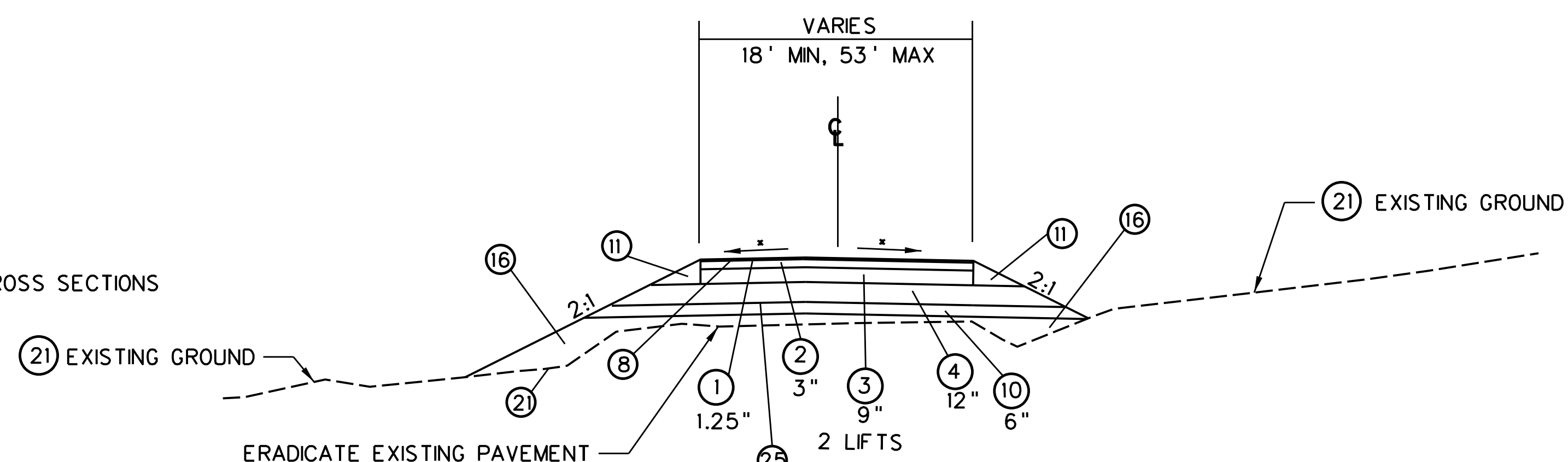
SIDE ROADS - OVERLAY

- KILARNEY DRIVE PAVE BACK 21'
- WHITE OAK COURT STA. 1500+16 TO STA. 1500+54
- WINDWOOD DRIVE STA. 1400+10 TO STA. 1400+46
- DISTRICT DRIVE ALIGN. 1 STA. 1100+21 TO 1100+50
- DISTRICT DRIVE ALIGN. 2 STA. 1200+10 TO 1200+28



* SEE CROSS SECTIONS

CLEARVIEW AVE.
STA. 1800+15 TO STA. 1800+70

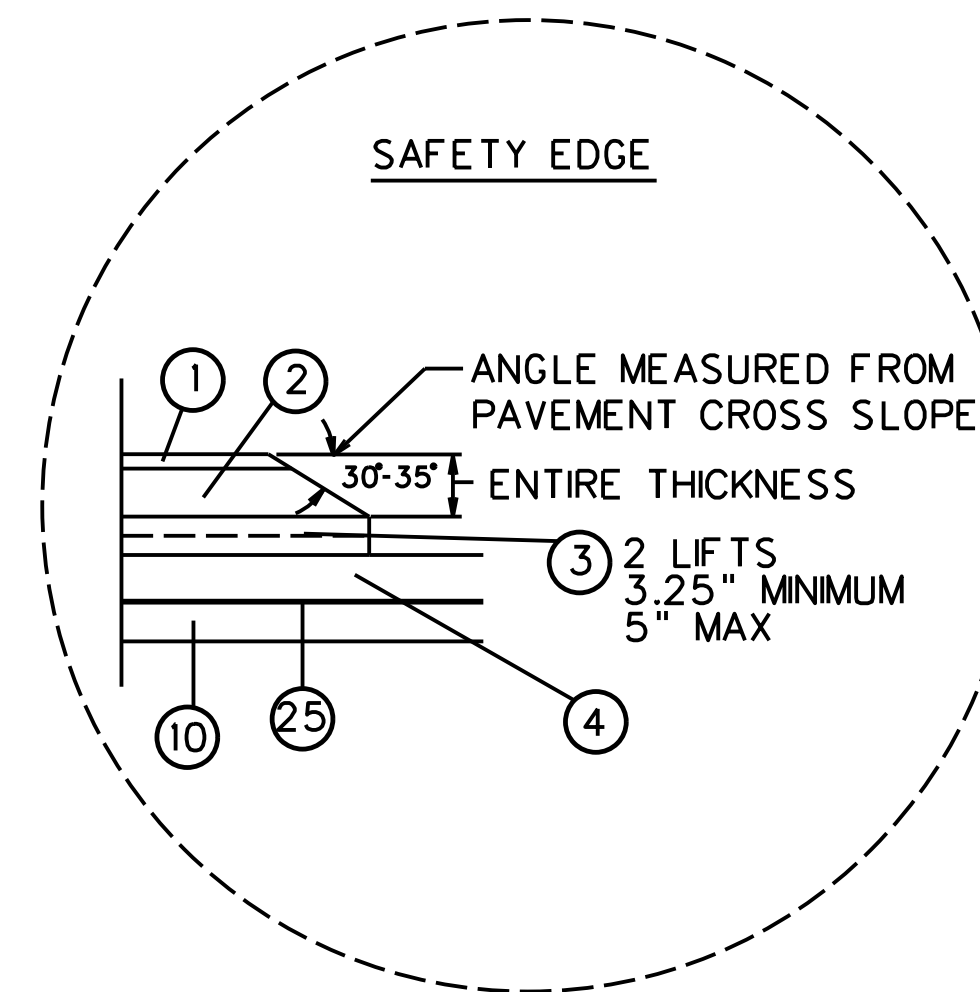


* SEE CROSS SECTIONS

ERADICATE EXISTING PAVEMENT SURFACE PRIOR TO PLACING AGGREGATE BASE COURSE

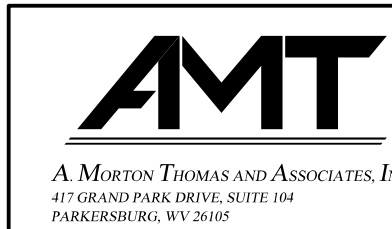
SOUTHVIEW ST.
STA. 1700+11 TO STA. 1701+32

- ① ITEM 402001-020 MARSHALL ASPHALT SKID RESISTANT PAVEMENT, SG, TYPE I TONS
- ② ITEM 402001-021 MARSHALL ASPHALT SKID RESISTANT PAVEMENT, S, TYPE I TONS
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- ② ITEM 401001-024 MARSHALL ASPHALT BASE CRSE, S, TYPE II TONS
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- ㉘ 8½" CONCRETE DECK



NOTE: HEAVY MIX DESIGN 3,030,000 ESALS

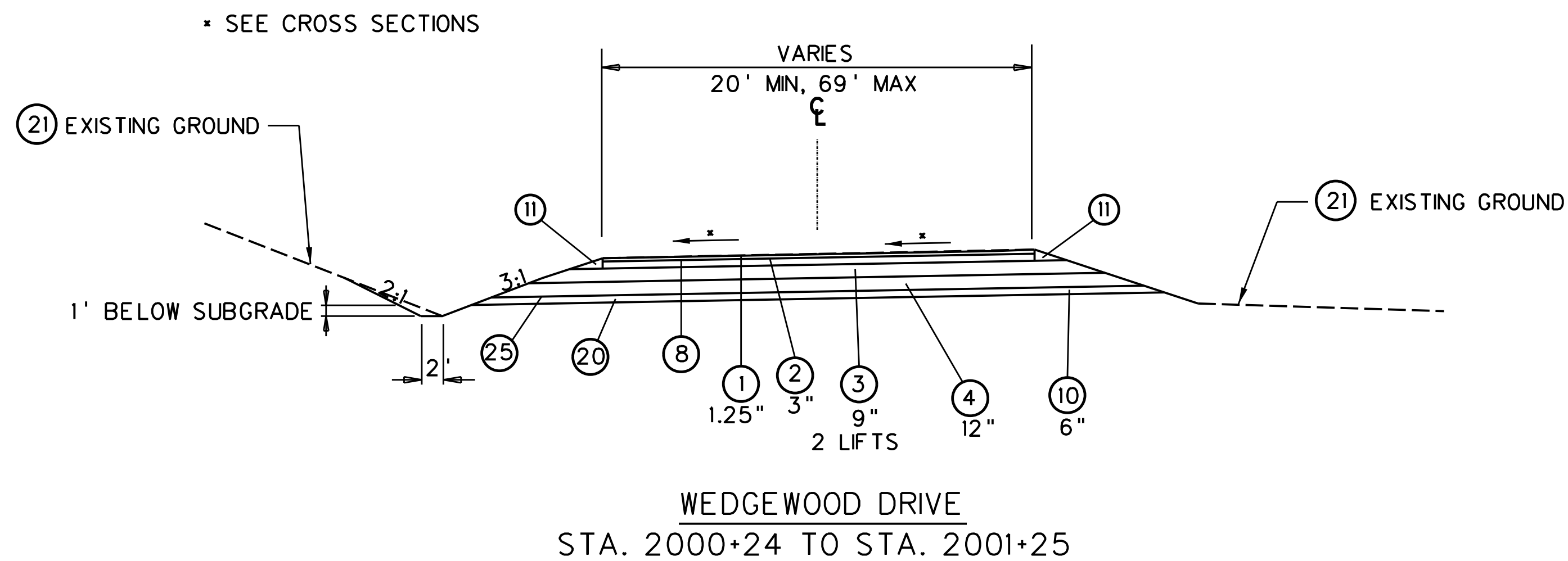
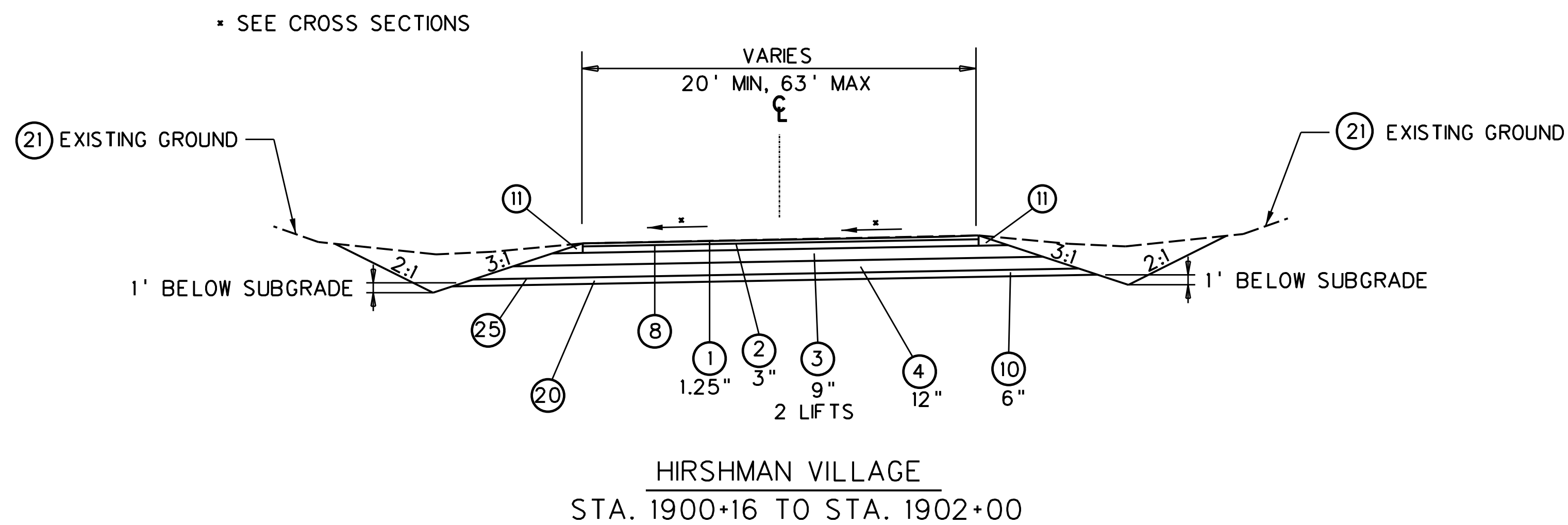
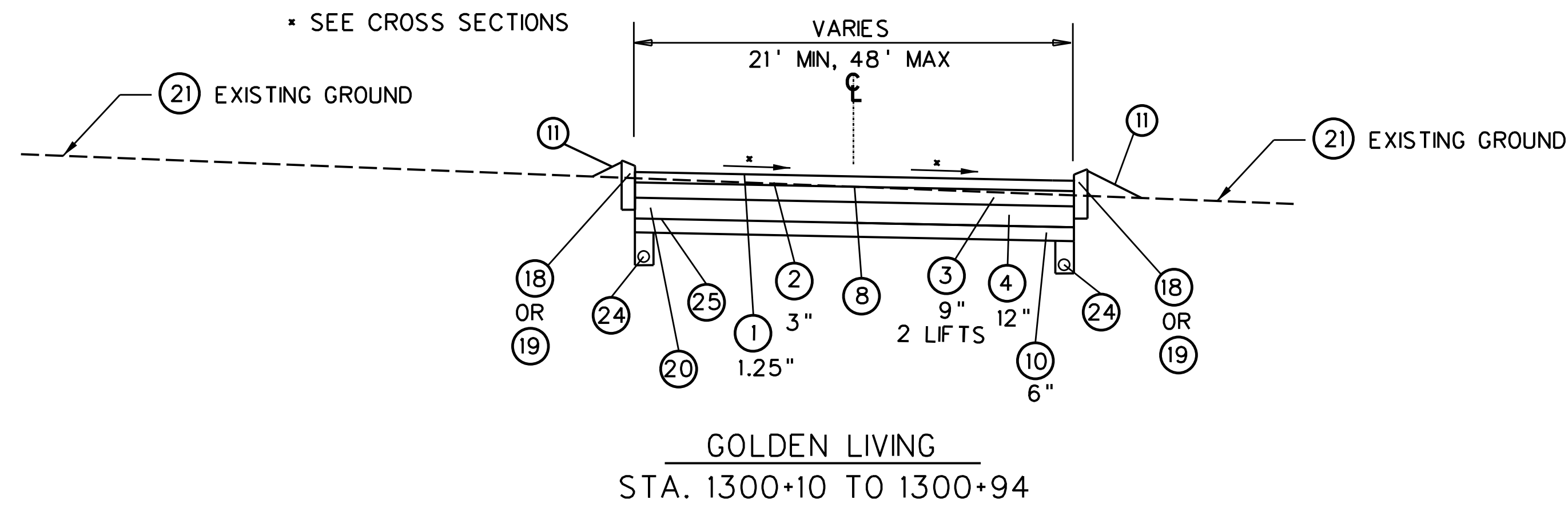
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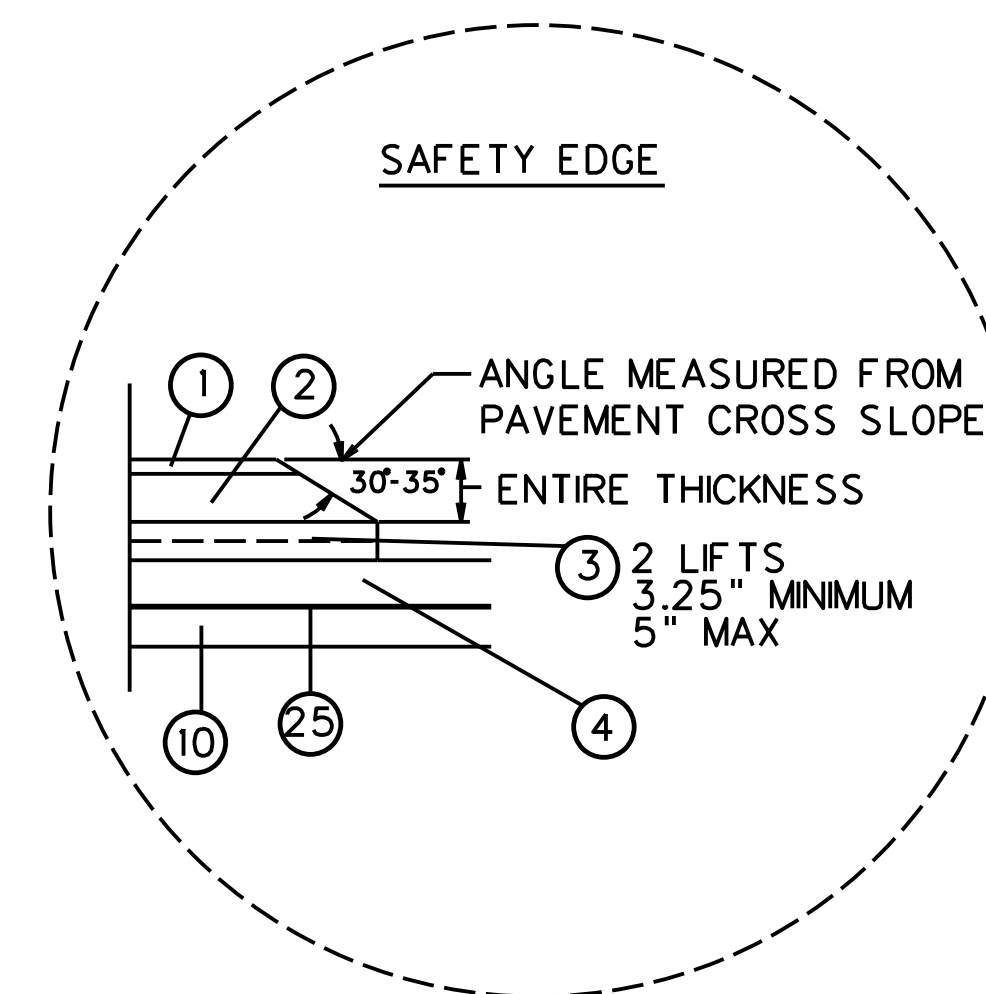
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROADWAY TYPICAL SECTIONS

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00-00	NFA-2317 (0237D)	2020	MONONGALIA	10	301

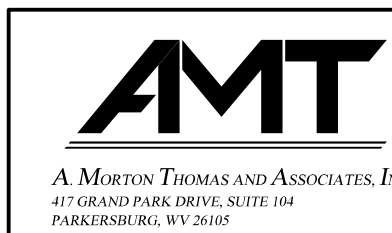


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NOTE: HEAVY MIX DESIGN 3,030,000 ESALS

SUBMITTED 6/29/2020



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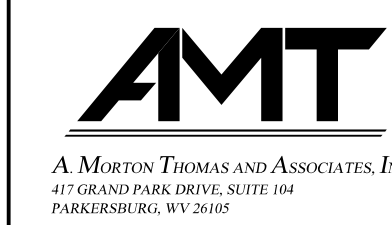
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROADWAY TYPICAL SECTIONS

ITEM NO.	ALT.	ITEM/DESCRIPTION	UNIT	QUANTITY
CATEGORY 001 ROADWAY				
201001-000		CLEARING AND GRUBBING	LS	1
202001-000		BUILDING DEMOLITION NUMBER, 11/1	LS	1
202001-000		BUILDING DEMOLITION NUMBER, 11/2	LS	1
202001-000		BUILDING DEMOLITION NUMBER, 29-1/2	LS	1
202001-000		BUILDING DEMOLITION NUMBER, 29-2/1	LS	1
204001-000		MOBILIZATION	LS	1
207001-001		UNCLASSIFIED EXCAVATION	CY	12096
207002-000		SUBGRADE	CY	1173.0
207034-000		FABRIC FOR SEPARATION	SY	6079
211001-001		UNCLASSIFIED BORROW EXCAVATION	CY	2287
211002-001		ROCK BORROW EXCAVATION	CY	103
218001-000		RIP RAP	CY	794
307001-000		AGGREGATE BASE COURSE, TYPE I	CY	2300
408002-001		ASPHALT MATERIAL	GA	867
415005-001		STANDARD MILLING	SY	2988
603029-001		PRECAST REINFORCED CONCRETE HEADWALL	SF	30
604050-112		15 INCH CORRUGATED POLYETHYLENE PIPE IN TYPE F TRENCH	LF	33
604050-116		18 INCH CORRUGATED POLYETHYLENE PIPE IN TYPE F TRENCH	LF	1745
604050-120		24 INCH CORRUGATED POLYETHYLENE PIPE IN TYPE F TRENCH	LF	823
604050-122		30 INCH CORRUGATED POLYETHYLENE PIPE IN TYPE F TRENCH	LF	564
604050-126		42 INCH CORRUGATED POLYETHYLENE PIPE IN TYPE F TRENCH	LF	198
604092-012		15 INCH CORRUGATED STEEL PIPE SAFETY SLOPE END SECTION	EA	2
604092-016		18 INCH CORRUGATED STEEL PIPE SAFETY SLOPE END SECTION	EA	1
604092-020		24 INCH CORRUGATED STEEL PIPE SAFETY SLOPE END SECTION	EA	2
605001-001		TYPE A MANHOLE	EA	5
605004-001		TYPE B INLET	EA	4
605008-001		TYPE F INLET	EA	31
605009-001		TYPE G INLET	EA	12
605015-001		ADJUST MANHOLE TYPE A	EA	5
606027-004		6 INCH CORRUGATED POLYETHYLENE UNDERDRAINAGE PIPE	LF	3000
607001-001		TYPE I GUARDRAIL, CLASS I, 31" HEIGHT	LF	62.5
607001-001		TYPE I GUARDRAIL, CLASS II, 31" HEIGHT	LF	1637.5
607006-001		THRIE BEAM GUARDRAIL BRIDGE TRANSITION	EA	4
607010-020		GUARDRAIL REMOVAL	LF	462.5
609001-001		SIDEWALK, 4"	SY	864.4
609001-001		SIDEWALK, 6"	SY	65.9
609002-001		BED COURSE MATERIAL	CY	101.8
609006-001		DETECTABLE WARNING SURFACE	EA	8
610001-001		PLAIN CONCRETE CURBING, TYPE I	LF	65.2
610001-003		PLAIN CONCRETE CURBING TYPE II	LF	838
610001-004		PLAIN CONCRETE CURBING, TYPE IV	LF	117.0
610003-002		COMBINATION CONCRETE CURB AND GUTTER, TYPE II	LF	2501.5
610003-004		COMBINATION CONCRETE CURB AND GUTTER, TYPE IV	LF	30
622003-001		CANTILEVER MAILBOX SUPPORT	EA	10
620004-001		WINGWALL FOR CONCRETE CULVERT	EA	9
638002-001		RIGHT OF WAY MARKER	EA	106
638004-001		OUTLET MARKER	EA	1
639001-001		CONSTRUCTION LAYOUT STAKE	LS	1
640006-001		SMALL FIELD OFFICE	MO	9
662010-099		LIGHTING SUPPORT, TYPE REMOVE AND RESET	EA	1
307005-001	AA1	AGGREGATE BASE COURSE, SG, CLASS 10	TN	423
307005-002	AA2	AGGREGATE BASE COURSE, SLAG, CLASS 10	TN	385
401001-020	BB1	MARSHALL ASPHALT BASE COURSE, SG, TYPE I	TN	3010
401001-021	BB2	MARSHALL ASPHALT BASE COURSE, S, TYPE I	TN	2739
401001-023	CC1	MARSHALL ASPHALT BASE COURSE, SG, TYPE II	TN	1004
401001-024	CC2	MARSHALL ASPHALT BASE COURSE, S, TYPE II	TN	914
401003-001	DD1	MARSHALL ASPHALT PATCHING AND LEVELING COURSE, SG	TN	213
401003-002	DD2	MARSHALL ASPHALT PATCHING AND LEVELING COURSE, SG	TN	194
402001-020	EE1	MARSHALL ASPHALT SKID RESISTANT PAVEMENT, SG, TYPE I	TN	1009
402001-021	EE2	MARSHALL ASPHALT SKID RESISTANT PAVEMENT, S, TYPE I	TN	918

ITEM NO.	ALT.	ITEM/DESCRIPTION	UNIT	QUANTITY
CATEGORY 002 TEMPORARY TRAFFIC CONTROL				
663007-001		ERADICATION OF PAVEMENT MARKING	LF	1028
636008-002		TEMPORARY PAVEMENT MARKING, PAINT 6 IN	LF	17000
636011-001		TRAFFIC CONTROL DEVICE	UN	26,340
636012-001		PROJECT TRAFFIC CONTROL DEVICE CLEANING	EA	2
636013-001		INDIVIDUAL TRAFFIC CONTROL DEVICE CLEANING	EA	30
636014-001		FLAGGER	HR	2800
636014-002		TRAFFIC DIRECTOR	HR	300
636017-005		TEMPORARY BARRIER, TL-3, III	LF	1200
636021-001		ELECTRIC ARROW	DAY	20
636024-001		TEMPORARY PIPE FOR MAINTAINING TRAFFIC	LF	30
636025-001		WARNING LIGHTS, TYPE B	DA	4400
636060-001		TEMPORARY IMPACT ATTENUATING DEVICE	EA	4
663002-001		AGGREGATE FOR MAINTAINING TRAFFIC	TON	800
CATEGORY 003 SEEDING AND MULCHING				
642004-002		TEMPORARY SEED MIXTURE B	LB	128
642005-001		TEMPORARY MULCH, STRAW OR HAY	TN	2.7
642006-001		TEMPORARY FERTILIZER	TN	0.5
642012-001		SILT FENCE	LF	2500
642031-001		DITCH CHECK	EA	41
642040-001		INLET PROTECTION	EA	21
652001-001		AGRICULTURAL LIMESTONE	TN	0.7
652002-001		FERTILIZER 10-20-10	TN	0.7
652002-002		FERTILIZER UREA FORMALDEHYDE	TN	0.02
652003-001		SEED MIXTURES B, C-1, C-2	LB	131
652004-001		STRAW OR HAY MULCH	TN	2.7
CATEGORY 004 SIGNING				
657008-001		2.00 LB CHANNEL POST	LF	48
657010-001		3.00 LB CHANNEL POST	LF	915
657018-001		SUPPORT OR BRACKET REMOVAL	EA	15
658001-001		CLASS B CONCRETE FOOTING, REINFORCED, OVERHEAD	CY	3.5
658010-001		OVERHEAD SIGN SUPPORT, SINGLE ARM CANTILEVER (LIGHT)	EA	1
661001-001		0.080 IN FLAT SHEET SIGN	SF	535
661003-001		REFLECTIVE SIGN SUPPORT STRIP	EA	14
661011-001		INSTALLATION OF REUSABLE SIGN	EA	16
CATEGORY 005 SIGNAL MODIFICATION				
660001-001		SIGNAL CONTROLLER	LS	1
660003-001		SIGNAL SECTION, G-16	LS	10
660003-006		SIGNAL SECTION, V-12	LS	37
660004-040		SIGNAL SUPPORT, C1	EA	3
660004-042		SIGNAL SUPPORT, C1L	EA	1
660004-050		SIGNAL SUPPORT, E1	EA	3
660005-010		JUNCTION BOX, TYPE H, 10"X10"	EA	1
660005-010		JUNCTION BOX, TYPE H, 18"X18"	EA	6
660007-001		MISCELLANEOUS SIGNAL, 01	LS	1
660010-001		PRIORITY CONTROL SYSTEM DETECTOR, D4	EA	1
660060-001		MISCELLANEOUS RADIO INSTALLATION, 01	EA	1
660060-003		ETHERNET RADIO TRANSCEIVER AND ANTENNA	EA	1
660060-004		ETHERNET SWITCH	EA	1
662002-001		GALVANIZED STEEL CONDUIT, 01	LS	1
662007-001		LUMINARE, LED	EA	1
662014-001		INCIDENTAL ELECTRICAL WORK, 01	LS	1
CATEGORY 006 PAVEMENT MARKINGS				
636008-002		TEMPORARY PAVEMENT MARKING, PAINT 6 IN	LF	22000
663001-026		EDGE LINE, TYPE II - 6IN, WHITE	LF	9032
663002-026		LANE LINE, TYPE II - 6 IN, WHITE	LF	121
663002-040		CENTERLINE, TYPE II - 6 IN	LF	10040
663004-011		CHANNELIZING LINE, TYPE V - 8 IN, WHITE	LF	615
663005-011		STOP LINE, TYPE V - 12 IN	LF	129
663005-011		STOP LINE, TYPE V - 24 IN	LF	31
663006-010		CROSSWALK LINE, TYPE V, 12 IN X 6 FT	LF	637
663007-010		STRIPE, TYPE V, 12 IN, YELLOW	LF	251
663010-010		ONE DIRECTION LANE ASSIGNMENT ARROW, TYPE V	EA	10
663010-011		MULTI DIRECTIONAL LANE ASSIGNMENT ARROW, TYPE V	EA	2
663011-010		LANE LETTER, TYPE V	EA	12

ITEM NO.	ALT.	ITEM/DESCRIPTION	UNIT	QUANTITY
CATEGORY 007 BRIDGE				
203001-001		DISMANTLING STRUCTURE	L.S.	1
207032-000		FABRIC FOR SUBSURFACE DRAINAGE	S.Y.	426
212001-000		STRUCTURE EXCAVATION	C.Y.	110
212010-003		SHORING	L.S.	1
218006-000		FOUNDATION PROTECTION	C.Y.	256
307001-000		AGGREGATE BASE COURSE, CLASS 1	C.Y.	291
502001-012		12 INCH PORTLAND CEMENT CONCRETE APPROACH SLAB	S.Y.	190
601002-001		CLASS B CONCRETE	C.Y.	80
601003-001		CLASS K CONCRETE	C.Y.	20
601009-001		CLASS H CONCRETE	C.Y.	125
602001-001		REINFORCING STEEL BAR	LB.	11200
602002-001		EPOXY COATED REINFORCING STEEL BAR	LB.	34400
603016-218		27X48 INCH PRESTRESSED CONCRETE BOX BEAM	L.F.	318
615029-101		NON-GUIDED BEARINGS, ELASTOMERIC	EA	10
616005-009		HP12X84 STEEL BEARING PILE, PRE-DRILLED AND DRIVEN	L.F.	220
636005-001		TEMPORARY STRUCTURE FOR MAINTAINING TRAFFIC	L.S.	1
639001-001		CONSTRUCTION LAYOUT STAKE	L.S.	1
645001-001		PRIMARY REINFORCEMENT	S.Y.	830
CATEGORY 008 RETAINING WALL				
212001-000		STRUCTURAL EXCAVATION	CY	275
212005-000		SELECT MATERIAL FOR BACKFILLING	CY	175
606027-002		4 INCH CORRUGATED POLYETHYLENE UNDERDRAIN PIPE	LF	300
606030-001		OUTLET PIPE, 4 INCH	LF	10
614001-008		HP 12X74 STEEL PILE	LF	1870
614003-001		CONCRETE LAGGING, 8" THICKNESS	SF	2680
CATEGORY 009 MICROPILE SYSTEM				
616006-002		SOIL NAIL/MICROPILE/GEOSYNTHETIC REINFORCED SOIL SYSTEM	LS	1

SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUMMARY OF ESTIMATED QUANTITIES

SEEDING AND MULCHING

STATION	LT. OR RT.	SEED & MULCH AREA SF	SEED & MULCH AREA ACRE	ITEM 642004-002 TEMPORARY SEED MIXTURE B LB	ITEM 642005-001 TEMPORARY MULCH, STRAW OR HAY TN	ITEM 642006-001 TEMPORARY FERTILIZER TN	ITEM 652001-001 AGRICULTURAL LIMESTONE TN	ITEM 652002-001 FERTILIZER, 10-20-10 TN	ITEM 652002-002 FERTILIZER, UREA FORMALDEHYDE TN	ITEM 652003-001 SEED MIXTURES, B, C-1, OR C-2 EACH	ITEM 652004-001 STRAW OR HAY MULCH TN	REMARKS
0+00 TO 46+00	L/R	42,864	0.98	93.48	1.97	0.39	0.49	0.49	0.0148	95.45	1.97	
SOUTHVIEW	L/R	1,455	0.03	3.17	0.07	0.01	0.02	0.02	0.0005	3.24	0.07	
CLEARVIEW	L/R	1,281	0.03	2.79	0.06	0.01	0.01	0.01	0.0004	2.85	0.06	
WEDGEWOOD	L/R	515	0.01	1.1	0.02	0.00	0.01	0.01	0.0002	1.15	0.02	
HIRSHMAN	L/R	2,945	0.07	6.4	0.14	0.03	0.03	0.03	0.0010	6.56	0.14	
GOLDEN LIVING	L/R	2,800	0.06	6.1	0.13	0.03	0.03	0.03	0.0010	6.24	0.13	
DISTRICT DR 2	L/R	140	0.003	0.3	0.01	0.00	0.00	0.00	0.0000	0.31	0.01	
TEMP DETOUR	L/R	6,704	0.15	14.6	0.31	0.06	0.08	0.08	0.0023	14.93	0.31	
TOTALS		58,704	1.35	128.0	2.7	0.5	0.7	0.7	0.02	131	2.7	

GRADING SUMMARY *

LOCATION			TOTAL EXCAV. UNCLASS.	UNSUIT. EXCAV. C. Y.	STRUCT. EXCAV. C. Y.	UNSUIT. EXCAV. C. Y.	USABLE EXCAV. C. Y.	SHRINK OR SWELL	ADJUST EXCAV. C. Y.	UNCLASS. EMBANK. C. Y.	SELECT. EMBANK. C. Y.	TOTAL EMBANK. C. Y.	EXCESS(+) OR BORROW(-) C. Y.	REMARKS
STATION	STATION	L/R	C. Y.	C. Y.	C. Y.	C. Y.	C. Y.		C. Y.	C. Y.	C. Y.	C. Y.	C. Y.	
0+00	46+00	L/R	10190	10190				0.90		1521	1031	2552	10190	
1700+00	1701+00	L/R	0	0				0.90		183	0	183	0	
1800+00	1800+75	L/R	16	16				0.90		10	0	10	16	
2000+00	2002+00	L/R	306	306				0.90		0	0	0	306	
1900+00	1902+00	L/R	1309	1309				0.90		0	0	0	1309	
1300+00	1301+00	L/R	0	0				0.90		0	0	0	0	
1500+00	1500+50	L/R	32	32				0.90		0	0	0	32	
1400+00	1400+50	L/R	32	32				0.90		0	0	0	32	
1100+00	1100+25	L/R	4	4				0.90		0	0	0	4	
1200+00	1200+50	L/R	8	8				0.90		0	0	0	8	
2300+00	2305+50	L/R	199	199				0.90		344	0	344	199	
TOTAL			12096	12096			0			2058	1031	3089	12096	

BORROW COMPUTATIONS *

SELECT EMBANKMENT REQUIRED (FROM TABLE "GRADING SUMMARY")	1031	UNCLASS. EMBANKMENT REQUIRED (FROM TABLE "GRADING SUMMARY")	2058 C. Y.
SELECT EMBANKMENT AVAILABLE (FROM TABLE "PROBABLE SOURCE OF SELECT EMBANKMENT")	0	ADJUSTED EXCAVATION (FROM TABLE "GRADING SUMMARY") - S.E. AVAILABLE (FROM TABLE "PROBABLE SOURCE OF S.E.")	0 C. Y.
SELECT EMBANKMENT NEEDED	1031	EMBANKMENT NEEDED	2058 C. Y.
ROCK BORROW REQUIRED TO MEET S.E. REQUIREMENTS WITH 0% SWELL :		EXCAVATION REQUIRED TO MEET EMBANK. REQUIREMENTS WITH 10% SHRINK:	
ITEM 211-002, ROCK BORROW EXCAVATION * S.E. NEEDED 1-0.15	897	ITEM 211001-000, UNCLASSIFIED BORROW EXCAVATION * EMBANK. NEEDED 1-0.10	2287 C. Y.

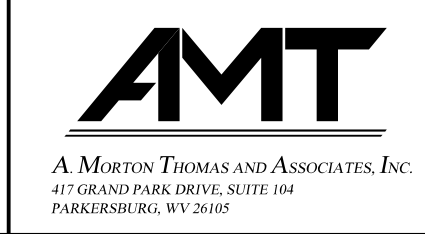
BUILDING DEMOLITION

ITEM 202001-000 BUILDING DEMOLITION	STATION, OFFSET (FT)	REMARKS
11/1	20+22, 56' RT	HOUSE
11/2	21+00, 94' RT	BUILDING
29-2/1	42+16, 35' RT	SIGN
29-1/1	42+34, 37' LT	SIGN

GUARDRAIL SUMMARY

BEGIN		END TREATMENT				END		END TREATMENT				NEW GUARDRAIL 607001-001 LF		GUARDRAIL REMOVAL 607010-020 LF	REMARKS
STATION	L/R	THRIE BEAM			BUFFER END	STATION	L/R	THRIE BEAM			BUFFER END	CLASS I	CLASS II		
0+25	74' L					0+65	41' L					62.5		62.5	TIE INTO EXISTING GUARDRAIL
33+99.3	24.5' L					34+90.9	25.6' L				1		100		
24+01	25' R				1	36+51.7	22' R				1		1262.5	212.5	
40+00	16' L				1	41+28	21' L	1					125	62.5	BRIDGE APPROACH GUARDRAIL
40+65	33' R				1	41+20	20' R	1					62.5	75	BRIDGE APPROACH GUARDRAIL
42+33	20' L	1				42+58	42' L				1		37.5	37.5	BRIDGE APPROACH GUARDRAIL
42+23	19' R	1				42+72	21' R				1		50	12.5	BRIDGE APPROACH GUARDRAIL
TOTAL		2			3			2			4	62.5	1,637.5	462.5	

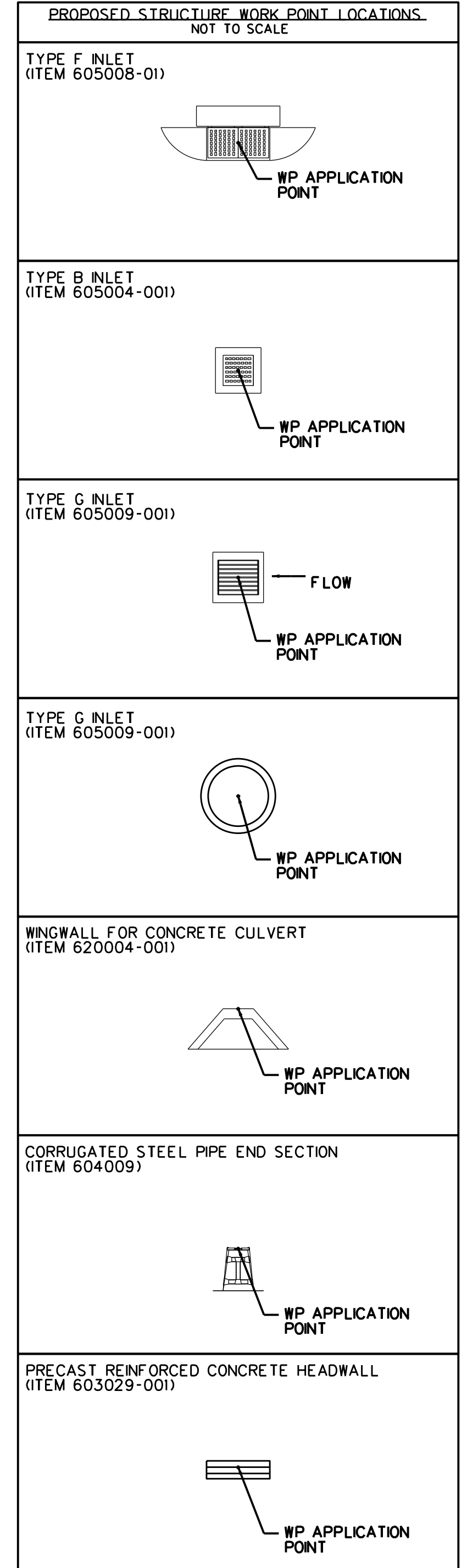
SUBMITTED 6/29/2020



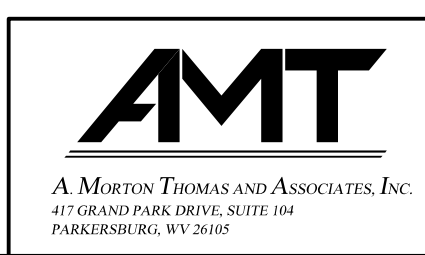
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

PIPE CULVERT SUMMARY

STATION	LT. OR RT.	ID	ITEM 218001-000 RIPRAP CY	ITEM 603029-001 PRECAST REINFORCED CONCRETE HEADWALL EACH	ITEM 604050-110 12 INCH CORRUGATED POLYETHYLENE PIPE L.F.	ITEM 604050-112 15 INCH CORRUGATED POLYETHYLENE PIPE L.F.	ITEM 604050-116 18 INCH CORRUGATED POLYETHYLENE PIPE IN TYPE F TRENCH L.F.	ITEM 604050-120 24 INCH CORRUGATED POLYETHYLENE PIPE IN TYPE F TRENCH L.F.	ITEM 604050-122 30 INCH CORRUGATED POLYETHYLENE PIPE IN TYPE F TRENCH L.F.	ITEM 604050-126 42 INCH CORRUGATED POLYETHYLENE PIPE IN TYPE F TRENCH L.F.	ITEM 604092-012 15 INCH CORRUGATED STEEL PIPE END SECTION EACH	ITEM 604092-016 18 INCH CORRUGATED STEEL PIPE END SECTION EACH	ITEM 604092-020 24 INCH CORRUGATED STEEL PIPE END SECTION EACH	ITEM 605001-001 TYPE A MANHOLE EACH	ITEM 605004-001 TYPE B INLET EACH	ITEM 605008-001 TYPE F INLET EACH	ITEM 605009-001 TYPE G INLET EACH	ITEM 620004-001 WINGWALL FOR CONCRETE CULVERT SQ. FT.	REMARKS	
0+41.10	LT.	0-1															1			
0+41.10 TO 0+31.39	LT.	0-1 TO FC-4					8													
1+75.25	LT.	1-10															1			
1+75.25 TO 1+75.11	LT.	1-10 TO FC-1					19													
2+88.39	LT.	1-9															1			
2+88.39 TO 2+88.57	LT.	1-9 TO FC-2					18													
4+74.18	LT.	1-8															1			
4+74.18 TO 4+74.55	LT.	1-8 TO FC-3					11													
6+24.09	RT.	1-7															1			
6+24.09 TO 6+34.80	RT.	1-7 TO OUT1					27													
6+34.80	RT.	OUT1		1																
6+34.80	RT.	OUT1 RIPRAP	2																	
7+64.10 TO 6+96.77	LT.	EX1-5 TO EX1-4							62											
8+56.99 TO 7+64.10	LT.	1-6 TO EX1-5							88											
8+56.99	LT.	1-6															1			
9+53.10 TO 8+56.99	LT.	1-5 TO 1-6							92											
9+53.10	LT.	1-5															1			
10+96.19 TO 9+53.10	LT.	1-4 TO 1-5							139											
10+96.19	LT.	1-4															1			
12+51.79 TO 10+96.19	LT.	1-3 TO 1-4					152													
12+51.79	LT.	1-3															1			
14+02.99 TO 12+51.79	LT.	1-2 TO 1-3					147													
14+02.99	LT.	1-2															1			
14+02.99 TO 15+58.86	LT.	1-1 TO 1-2					152													
15+58.86	LT.	1-1															1			
16+36.23	LT.	2-3															1			
16+36.23 TO 17+65.93	LT.	2-2 TO 2-3					126													
17+65.93	LT.	2-2															1			
17+65.93 TO 18+58.03	LT.	2-1 TO 2-2					92													
18+58.03	LT.	2-1															1			
18+23.27	RT.	2-7															1			
18+27.05	RT.	2-8															1			
17+71.99 TO 18+23.27	RT.	2-7 TO 2-6					47													
17+66.02 TO 17+71.99	RT.	2-6 TO 2-2					24										1			
17+71.19	RT.	2-6																		
20+47.52	LT.	OUT3									1									
20+78.99	LT.	3-1									1									
20+78.99 TO 20+47.52	LT.	3-1 TO OUT3				33														
22+98.16	LT.	4-1															1			
22+98.16 TO 23+03.61	LT./RT.	4-1 TO 4-2					48													
23+03.61	RT.	4-2															1			
23+03.61 TO 23+64.06	RT.	4-2 TO 4-3					55													
23+64.06	RT.	4-3															1			
23+64.06 TO 23+96.83	RT.	4-3 TO 4-5					28													
23+96.83	RT.	4-5												1						
23+96.83 TO 24+57.16	RT.	4-5 TO OUT4					58													
24+57.16	RT.	OUT4																		1
23+09.03	RT.	4-4															1			
23+09.03 TO 23+96.83	RT.	4-4 TO 4-5					20													
24+57.16 TO 24+79.55	LT.	OUT4 RIPRAP	10																	
24+16.51	LT.	5-2																		
24+17.08	LT.	5-1															1			
24+17.08 TO 24+16.51	LT.	5-1 TO 5-2					7													
25+41.94	LT.	5-3															1			
25+41.94	LT.	5-4																		1
25+41.94 TO 25.41.94	LT.	5-3 TO 5-4					7													
24+16.51 TO 25+41.94	LT.	5-2 TO 5-4							122											
25+41.94 TO 26+62.42	LT.	5-4 TO 5-5							117											
26+62.42	LT.	5-5															1			
27+09.96	LT.	5-6															1			
26+62.42 TO 27+09.96	LT.	5-5 TO 5-6					44													
27+25.98	RT.	5-8																		1
27+09.96 TO 27+25.98	LT./RT.	5-6 TO 5-8					28													
25+41.91	RT.	5-7															1			
25+41.91 TO 27+25.98	RT.	5-7 TO 5-8					180													



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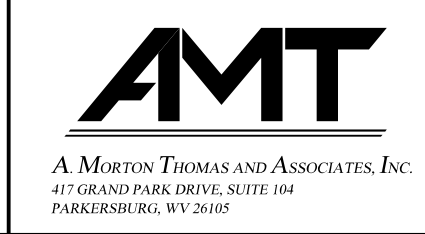


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

PIPE CULVERT SUMMARY

STATION	LT. OR RT.	ID	ITEM 218001-000 RIPRAP CY	ITEM 603029-001 PRECAST REINFORCED CONCRETE HEADWALL EACH	ITEM 604050-110 12 INCH CORRUGATED POLYETHYLENE PIPE L.F.	ITEM 604050-112 15 INCH CORRUGATED POLYETHYLENE PIPE L.F.	ITEM 604050-116 18 INCH CORRUGATED POLYETHYLENE PIPE IN TYPE F TRENCH L.F.	ITEM 604050-120 24 INCH CORRUGATED POLYETHYLENE PIPE IN TYPE F TRENCH L.F.	ITEM 604050-122 30 INCH CORRUGATED POLYETHYLENE PIPE IN TYPE F TRENCH L.F.	ITEM 604050-126 42 INCH CORRUGATED POLYETHYLENE PIPE IN TYPE F TRENCH L.F.	ITEM 604092-012 15 INCH CORRUGATED STEEL PIPE END SECTION EACH	ITEM 604092-016 18 INCH CORRUGATED STEEL PIPE END SECTION EACH	ITEM 604092-020 24 INCH CORRUGATED STEEL PIPE END SECTION EACH	ITEM 605001-001 TYPE A MANHOLE EACH	ITEM 605004-001 TYPE B INLET EACH	ITEM 605008-001 TYPE F INLET EACH	ITEM 605009-001 TYPE G INLET EACH	ITEM 620004-001 WINGWALL FOR CONCRETE CULVERT SQ. FT.	REMARKS	
27+88.21	RT.	OUT5																	1	
27+88.21 TO 27+95.96	LT.	OUT5 RIPRAP	3																	
27+25.98 TO 27+88.21	RT.	5-8 TO OUT5						61												
28+65.77	LT.	7-1														1				
28+65.77 TO 30+30.24	LT.	7-1 TO 7-2						161												
30+30.24	LT.	7-2															1			
30+30.24 TO 30+47.95	LT./RT.	7-2 TO OUT7						44												
30+47.95	RT.	OUT7																	1	
30+47.95 TO 30+55.29	RT.	OUT7 RIPRAP	4																	
31+37.94	LT.	8-1															1			
31+37.94 TO 32+61.44	LT.	8-1 TO 8-2						120												
32+61.44	LT.	8-2															1			
32+61.44 TO 32+99.03	LT.	8-2 TO 8-3						35												
32+99.03	LT.	8-3															1			
32+99.03 TO 33+59.97	LT.	8-3 TO 8-4							57											
33+59.97	LT.	8-4															1			
33+59.97 TO 34+03.34	LT.	8-4 TO OUT8							42											
34+03.34	LT.	OUT8																	1	
32+94.30 TO 32+99.03	LT.	EX8-1 TO 8-3						9												
34+79.43	LT.	6-1																	1	
35+02.43	RT.	OUT6																	1	
34+79.43 TO 35+02.43	LT./RT.	6-1 TO OUT6							84											
35+63.43	LT.	9-1															1			
35+63.43 TO 36+30.28	LT.	9-1 TO 9-2						63												
36+30.28	LT.	9-2															1			
36+30.28 TO 37+02.67	LT.	9-2 TO 9-4						68												
37+02.67	LT.	9-4															1			
37+02.67 TO 38+19.63	LT.	9-4 TO 9-5						108												
38+19.63	LT.	9-5															1			
38+19.63 TO 38+60.40	LT.	9-5 TO OUT9						37												
38+60.40	LT.	OUT9										1								
37+04.64	RT.	9-3															1			
37+04.64 TO 37+02.67	RT./LT.	9-3 TO 9-4						22												
39+72.82	LT.	10-1											1							
39+72.82 TO 39+98.73	LT.	OUT10											1							
39+98.73	LT.	10-1 TO OUT10						24												
43+75.78	LT.	12-1													1					
43+75.78 TO 43+78.95	LT./RT.	12-1 TO 12-2						28												
43+78.95	RT.	12-2													1					
43+78.95 TO 43+36.81	RT.	12-2 TO 12-3						38												
43+36.81	RT.	12-3													1					
43+36.81 TO 42+94.71	RT.	12-3 TO 12-4						38												
42+94.71	RT.	12-4													1					
42+94.71 TO 42+52.18	RT.	12-4 TO 12-5						38												
42+52.18	RT.	12-5															1			
42+52.18 TO 42+51.15	RT./LT.	12-5 TO 12-6						36												
42+51.15	LT.	12-6															1			
42+51.15 TO 42+06.92	LT.	12-6 TO OUT12						44												
42+06.92	LT.	OUT12																	1	
42+06.92 TO 41+98.45	LT.	OUT12 RIPRAP	3																	
16+32.22 TO 16+32.22	LT.	2-3 TO SWM						8												
16+27.63 TO 16+77.45	LT.	42" SWM								98										
16+29.14	LT.	SWM MANHOLE												1						
16+24.88	LT.	SWM MANHOLE												1						
16+27.63 TO 16+29.14	LT.	18" SWM						2												
16+29.14 TO 16+24.88	LT.	18" SWM BTWN MH						8												
16+24.88 TO 16+26.37	LT.	SWM TO OUT2						10												
16+26.37	LT.	OUT2																	1	
41+05.34	RT.	11-1															1			
41+03.62 TO 41+58.00	RT.	SWM DETENTION								100										
41+05.73 TO 41+05.74	RT.	SWM DETENTION						4												
41+58.00 TO 41+57.22	RT.	SWM DETENTION						3												
41+57.22	RT.	SWM MANHOLE												1						
41+60.26	RT.	11-2												1						
41+57.22 TO 41+60.26	RT.	SWM DETENTION						5												
41+60.26 TO 41+76.81	RT.	11-2 TO OUT11						17												
41+76.81	RT.	OUT11																	1	
41+76.81 TO 41+85.18	RT.	OUT11 RIPRAP	3																	
21+14.77 TO 18+27.05	LT.	DITCH TO 2-8						172												
20+47.42 TO 18+58.03	RT.	DITCH TO 2-1						120												
21+56.16 TO 23+07.72	RT.	DITCH TO 4-1						119												
21+73.06 TO 23+03.61	LT.	DITCH TO 4-2						70												
23+03.61 TO 23+77.84	LT.	DITCH TO 4-3						52												
30+34.74 TO 31+47.39	RT.	DITCH TO 8-1						75												
38+60.40 TO 39+72.82	RT.	DITCH TO 10-1						62												
39+98.73 TO 41+05.34	RT.	DITCH TO 11-1						99												
TOTALS			794	1		33	1745	823	564	198	2	1	2	5	4	31	12	9		

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GENERAL NOTES

GOVERNING SPECIFICATIONS

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, STANDARD SPECIFICATIONS, ROADS AND BRIDGES, ADOPTED 2017, THE JAN 1, 2020 SUPPLEMENTAL SPECIFICATIONS, THE CONTRACT DOCUMENTS, AND THE CONTRACT PLANS ARE THE GOVERNING PROVISIONS APPLICABLE TO THIS PROJECT.

STANDARD DETAILS VOLUMES I AND II

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, STANDARD DETAILS BOOK, VOLUME I, DATED MAY 2016, & VOLUME II, DATED JANUARY 1, 2019, SHALL APPLY TO THIS PROJECT. REVISED STANDARD DRAWINGS LISTED IN THE TABLE ON THIS SHEET WITH THEIR CORRESPONDING DATE SUPERCEDE THE AFOREMENTIONED STANDARD DETAILS.

STANDARD DETAIL DRAWINGS CAN BE FOUND AT

<http://www.transportation.wv.gov/highways/engineering/Pages/Details.aspx>

WORK SCHEDULE/COORDINATION OF WORK

THE CONTRACTOR SHALL COORDINATE ITS WORK SCHEDULE WITH THE CITY OF MORGANTOWN TO MINIMIZE THE CONFLICT WITH SIGNIFICANT DATES ESTABLISHED BY THE CITY. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS THROUGHOUT THE PROJECT AND VEHICULAR ACCESS AT DESIGNATED LOCATIONS DURING THE LENGTH OF THE PROJECT. THE CONTRACTOR SHALL ONLY BE PERMITTED TO CLOSE ONE APPROACH OF ANY AFFECTED BUSINESSES AT A TIME. ANY WORK PERFORMED NEAR A BUSINESS SHALL BE CONTINUOUS ONCE STARTED AND MAINTAIN ACCESS AT ALL TIMES.

WASTE MATERIAL

ALL MATERIAL REMOVED AND NOT REUSED IN THE CONSTRUCTION OF THIS PROJECT WILL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED AND DISCARDED FROM THE PROJECT.

SEEDING AND MULCHING

NO TESTING WILL BE REQUIRED IF PURCHASED FROM AN APPROVED VENDOR.

CONCRETE SIDEWALK

ALL CONCRETE SIDEWALKS SHALL BE CONSTRUCTED OF CLASS B CONCRETE, WHICH CONFORMS TO THE REQUIREMENTS OF SECTION 601 OF THE SPECIFICATIONS. THE CROSS SLOPES OF ALL CONCRETE SIDEWALKS SHALL NOT EXCEED 2%. THE CONTRACTOR SHALL BE RESPONSIBLE TO ADJUST THE ELEVATION OF THE CONCRETE SIDEWALK TO MATCH EACH EXISTING RESIDENTIAL AND/OR BUSINESS ENTRANCES.

DRAINAGE

THE CONTRACTOR SHALL MAINTAIN WORKING STORM DRAINAGE SYSTEMS THROUGHOUT THE WORK AREA AT ALL TIMES DURING CONSTRUCTION. THE LOCATION OF ALL KNOWN CULVERTS, INLETS, AND OTHER DRAINAGE ITEMS SHOWN ON THE CONTRACT PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION FROM EXISTING PLANS AND FIELD INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL EXACT LOCATION AND ADJUSTMENTS IN THE FIELD TO ENSURE PROPER ORIENTATION AFTER REVIEW AND APPROVAL BY THE ENGINEER.

ITEM 616006-002 MICROPILE SYSTEM

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN AND CONSTRUCTION OF MICROPILE SYSTEMS TO BE INSTALLED. THE CONTRACTOR SHALL SECURE THE SERVICES OF A QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF WEST VIRGINIA. THE MICROPILE SYSTEM WILL REQUIRE A MINIMUM OF A 5-YEAR WARRANTY WITH A 75-YEAR DESIGN LIFE. REFER TO SPECIAL PROVISION, SECTION 616, MICROPILE SYSTEMS WITHIN THESE DOCUMENTS.

THE ATTACHED GEOTECHNICAL INFORMATION IS BEING PROVIDED FOR GENERAL REFERENCES PURPOSES ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY ADDITIONAL GEOTECHNICAL EVALUATION AS NECESSARY FOR THE ANALYSIS, DESIGN, AND CONSTRUCTION OF THE MICROPILE SYSTEMS. ANY ADDITIONAL GEOTECHNICAL EVALUATION SHALL BE INCIDENTAL TO THE INDIVIDUAL MICROPILE SYSTEMS.

DESCRIPTION	SHEET NO.	IDENTIFICATION
MICROPILE SYSTEM (STA 27+40 TO 28+10 LT)	92,93	R-7-C

VERIFICATION OF DIMENSIONS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL PLAN AND VERTICAL DIMENSIONS PRIOR TO ORDERING MATERIALS FOR CONSTRUCTION OF THE VARIOUS BID ITEMS ON THIS PROJECT. ALL COSTS FOR CONSTRUCTION SURVEYING, CALCULATIONS AND STAKING AS MAY BE REQUIRED ARE INCIDENTAL TO ITEM 639001-001, CONSTRUCTION LAYOUT STAKE.

EROSION AND SEDIMENT CONTROL

DETAILS NOT SHOWN IN THE PLANS SHALL BE IN ACCORDANCE WITH THE WEST VIRGINIA DIVISION OF HIGHWAYS EROSION AND SEDIMENT CONTROL MANUAL, DATED MARCH 1, 2003 AND ADDENDUM I DATED SEPTEMBER 1, 2004. IN THE EVENT THAT TEMPORARY EROSION AND POLLUTION MEASURES ARE ORDERED BY THE ENGINEER DUE TO THE CONTRACTOR'S NEGLIGENCE, CARELESSNESS OR FAILURE TO INSTALL PERMANENT CONTROLS AS PART OF THE SCHEDULED WORK, SUCH WORK SHALL BE PERFORMED BY THE CONTRACTOR AT THEIR OWN EXPENSE. THE FIRST ORDER OF WORK FOR THE CONTRACTOR IS TO INSTALL SEDIMENT CONTROL STRUCTURES, SILT FENCE, IN ORDER TO ACCOMPLISH THESE OPERATIONS.

IN ADDITION, THE CONTRACTOR SHALL ENSURE THAT ALL EROSION AND SEDIMENT CONTROLS ON THE PROJECT ARE INSPECTED ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT OF GREATER THAN 0.5 INCHES OF RAIN PER 24 HOUR PERIOD, AND SEE THAT REPLACEMENT, CLEANING, AND/OR INSTALLATION OF ADDITIONAL FEATURES IF NECESSARY ARE CARRIED OUT.

UTILITIES

IT IS THE CONTRACTORS RESPONSIBILITY TO ASCERTAIN THE STATUS AND LOCATION OF EACH UTILITY WHEN PERFORMING WORK WHICH MAY AFFECT THESE FACILITIES, INCLUDING PROBING, EXCAVATION OR ANY OTHER PRECAUTION REQUIRED TO CONFIRM LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE OR DISRUPTION TO UTILITY LINES WHICH ARE KNOWN ACTIVE AND ARE TO REMAIN IN OPERATION. THE CONTRACTOR SHALL EXERCISE CARE WHEN WORKING NEAR EXISTING DRAINAGE STRUCTURES (PIPES, INLETS, ETC.). ANY DAMAGES RESULTING FROM THE CONTRACTORS NEGLIGENCE TO EXISTING DRAINAGE STRUCTURES WHICH ARE TO REMAIN IN PLACE WILL BE REPAIRED AT THE CONTRACTORS EXPENSE. ALL CULVERTS, INLETS, AND OTHER DRAINAGE ITEMS ON THIS PROJECT HAVE BEEN LOCATED AS AVAILABLE INFORMATION ALLOWS. THE CONTRACTOR WILL BE RESPONSIBLE FOR FINAL EXACT LOCATION AND ELEVATION OF ALL DRAINAGE AND MAKE NECESSARY ADJUSTMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING TRAFFIC ENGINEERING DIVISION AT 304-558-3063 TO LOCATE EXISTING UNDERGROUND SIGNAL AND LIGHTING CONDUIT.

EXISTING OR RELOCATED UTILITIES

THE LOCATION AND/OR ELEVATION OF ALL KNOWN UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION ON FROM EXISTING PLANS AND FIELD INFORMATION. THE CONTRACTOR SHALL CALL (800) 245-4848 PLUS ANY UTILITY COMPANIES NOT COVERED BY MISS UTILITY OF WEST VIRGINIA, AND HAVE ALL EXISTING UTILITIES FIELD LOCATED PRIOR TO ANY CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THE STATUS AND LOCATION OF EACH UTILITY WHERE PERFORMING WORK WHICH MAY AFFECT THESE FACILITIES, INCLUDING PROBING, EXCAVATION OR ANY OTHER PRECAUTION REQUIRED TO CONFIRM LOCATION. THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS AGAINST DAMAGE TO THESE EXISTING KNOWN UTILITIES. HOWEVER, IN THE EVENT OF DAMAGE OR DISRUPTION TO UTILITIES WHICH ARE ACTIVE AND ARE TO REMAIN IN SERVICE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE RESPONSIBLE OFFICIAL OF THE ORGANIZATION OPERATING THE INTERRUPTED UTILITY. THE CONTRACTOR SHALL LEND ALL POSSIBLE ASSISTANCE IN RESTORING SERVICES AND SHALL ASSUME ALL COSTS, CHARGES OR CLAIMS CONNECTED WITH THE INTERRUPTION AND REPAIR OF SUCH SERVICES.

VERIFICATION OF DIMENSIONS

THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF ALL PLAN AND ELEVATION DIMENSIONS PRIOR TO ORDERING MATERIALS FOR THE CONSTRUCTION OF THE VARIOUS BID ITEMS ON THIS PROJECT.

VERIFICATION OF CROSS SECTIONS

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING GROUND LINE AS SHOWN ON THE CROSS SECTIONS PRIOR TO THE START OF ANY CONSTRUCTION.

COORDINATES

COORDINATE VALUES WERE DERIVED USING THE WVDOT VRS NETWORK
 ZONE - WVNORTH4701
 HORIZONTAL DATUM - NAD83/2011
 VERTICAL DATUM - NAVD88
 GEOID 12B

Local Site Settings			
Project latitude:	N39°40'00"	Ground scale factor:	0.999896621
Project longitude:	W79°57'30"	False northing offset:	0.000
Project height:	1012.46	False easting offset:	0.000

BENCH MARKS

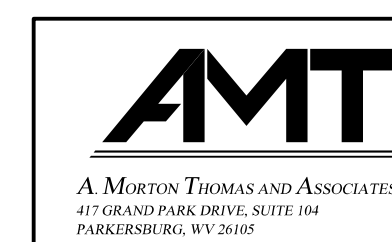
THE CONTRACTOR SHALL ATTEMPT TO HOLD BENCH MARK LOCATIONS THROUGHOUT THE LIFE OF THE PROJECT. IN THE EVENT THAT A BENCH MARK IS DISTURBED, THE CONTRACTOR, AS DIRECTED BY THE PROJECT ENGINEER, WILL RELOCATE OR REESTABLISH THE BENCH MARKS. NO ADDITIONAL PAYMENT.

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NOTICE TO CONTRACTORS

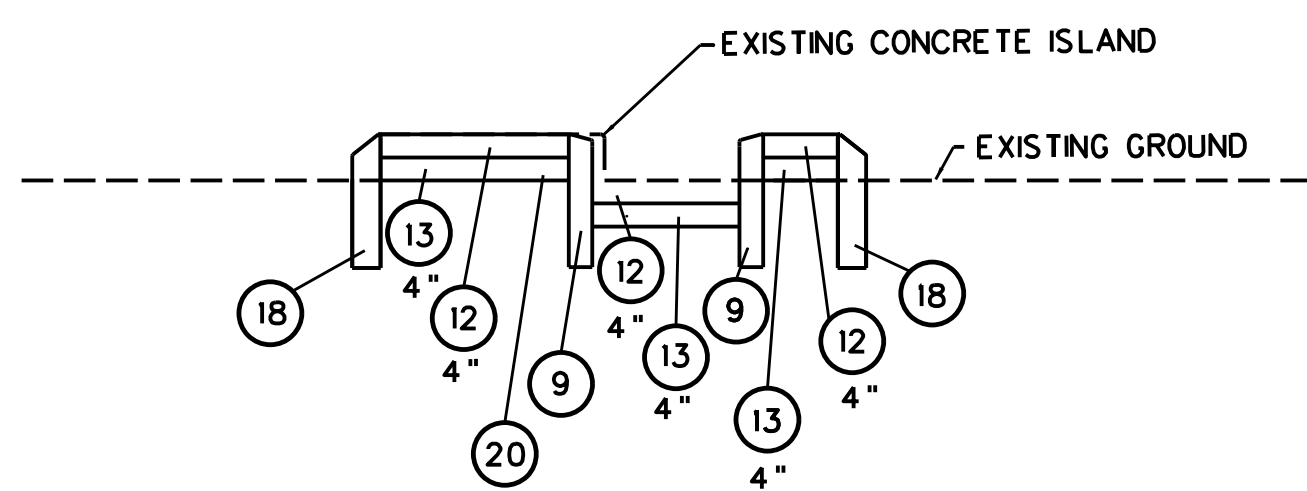
A PORTION OF THIS PROJECT IS LOCATED IN THE CORPORATE BOUNDARIES OF THE CITY OF MORGANTOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE QUANTITIES APPLICABLE TO THE CITY FOR ALL MUNICIPAL TAXES LEVIED BY THE CITY, TO INCLUDE BUT NOT LIMITED TO BUSINESS AND OCCUPATION TAXES.

SUBMITTED 6/29/2020



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WV ISLAND WV 705
SEE CONCRETE ISLAND INTERSECTION
DETAIL FOR MORE INFORMATION

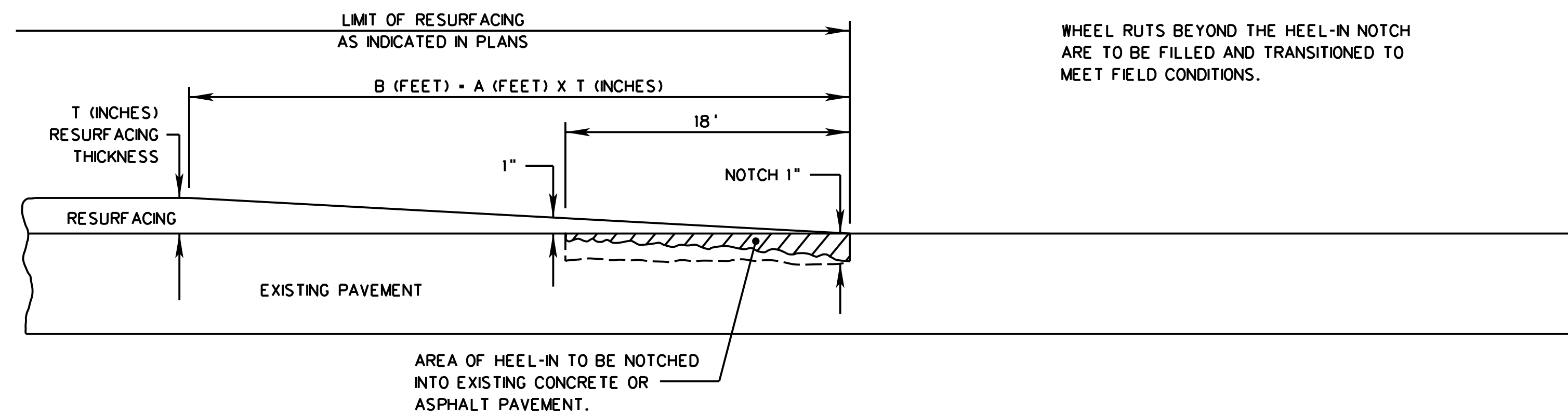


- ⑨ ITEM 610001-001 PLAIN CONCRETE CURBING, TYPE I L.F.
- ⑫ ITEM 609001-001 4 INCH CONCRETE SIDEWALK, S.Y.
- ⑬ ITEM 609002-001 4 INCH BED COURSE MATERIAL C.Y
- ⑱ ITEM 610001-002 PLAIN CONCRETE CURBING, TYPE II L.F.
- ⑳ ITEM 207001-001 UNCLASSIFIED EXCAVATION, TN

REFER TO STANDARD SHEETS PVT 6 AND PVT 7 OF THE WVDOH STANDARD DETAILS BOOK VOLUME I.

TEMPORARY WEDGES AT HEEL-INS

THE CONTRACTOR MAY ELECT TO CUT THE REQUIRED HEEL-INS SUCH THAT TRAFFIC MUST BE MAINTAINED OVER THE HEEL-IN AREAS PRIOR TO THE PLACEMENT OF THE PERMANENT ASPHALT MATERIAL. IF THE CONTRACTOR CHOOSES THIS METHOD AS AN ALTERNATE TO CUTTING THE HEEL-INS AND BACKFILLING WITH PERMANENT ASPHALT PRIOR TO RESTORING TRAFFIC. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PLACE TEMPORARY ASPHALT WEDGES 10 FEET IN LENGTH FOR EACH 1 INCH OF EXISTING SURFACE REMOVED AT THE VERTICAL FACE. FOR EXAMPLE, IF 2 INCHES ARE REMOVED AT THE VERTICAL FACE, THE TEMPORARY ASPHALT WEDGE SHALL BE 20 FEET IN LENGTH. THE WEDGES SHALL BE CONSTRUCTED OF ITEM 401001-023, TYPE II, PLACED AND COMPACTED IN ACCORDANCE WITH SECTION 401.14. THESE TEMPORARY WEDGES SHALL BE REMOVED IMMEDIATELY PRIOR TO PLACING THE PERMANENT SURFACE. THE COST OF THIS WORK WILL BE INCLUDED IN VARIOUS PAVEMENT ITEMS.



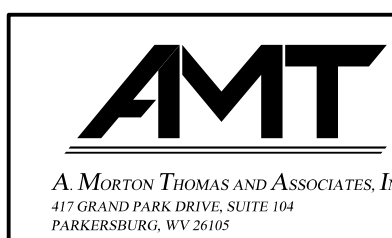
WHEEL RUTS BEYOND THE HEEL-IN NOTCH ARE TO BE FILLED AND TRANSITIONED TO MEET FIELD CONDITIONS.

- PAYMENT FOR HEEL-IN TO BE INCLUDED IN VARIOUS PAY ITEMS OF THIS PROJECT
- THIS DETAIL TO BE USED AT TERMINI OF RESURFACING PROJECTS AND AT ALL TERMINI FOR SKIP RESURFACING PROJECTS.
- THIS DETAIL TO BE USED AT 1 LOCATIONS FOR HEEL-IN INTERSECTIONS OF THIS PROJECT.
- THE FOLLOWING NUMBER(S) OF HEEL-INS FOR THE MAINLINE ON THIS PROJECT SHALL BE:
0 PERPENDICULAR
2 SKEWED AT 22.5°

POSTED SPEED LIMIT	A
25 mph	12'
30 TO 35 mph	14'
40 TO 45 mph	16'
50 TO 55 mph	18'
60 TO 70 mph	25'

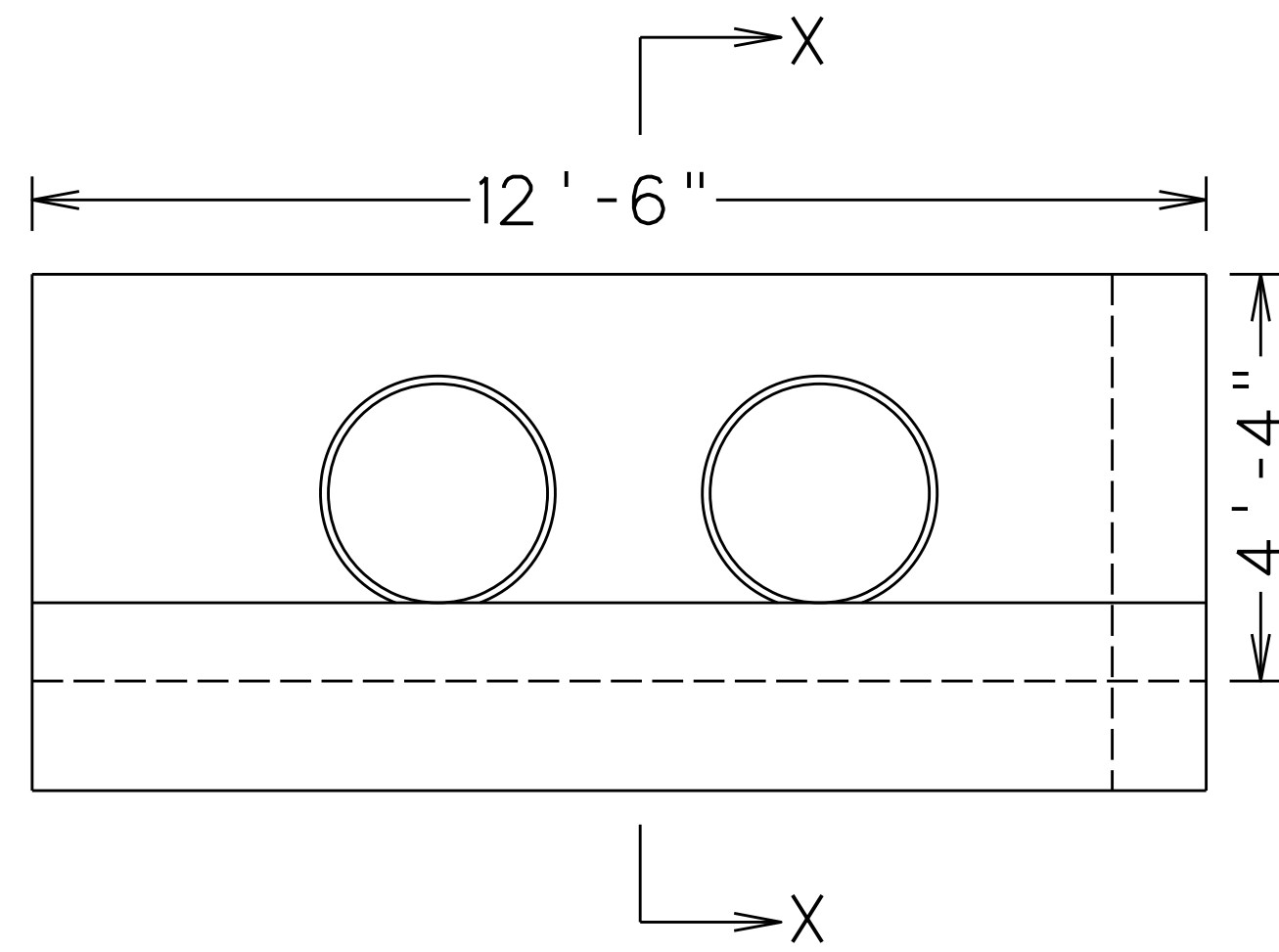
RESURFACING HEEL-IN DETAIL

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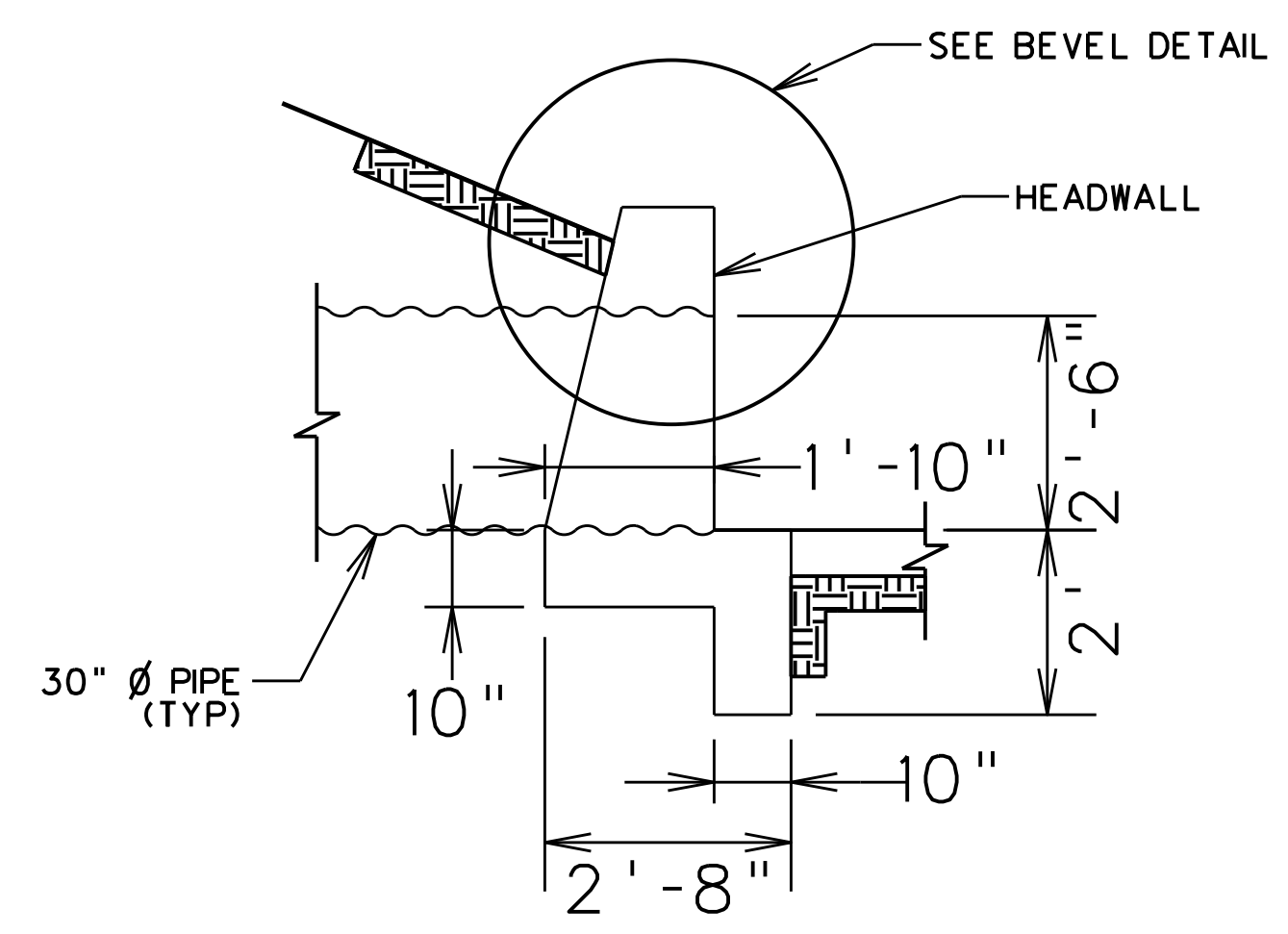


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

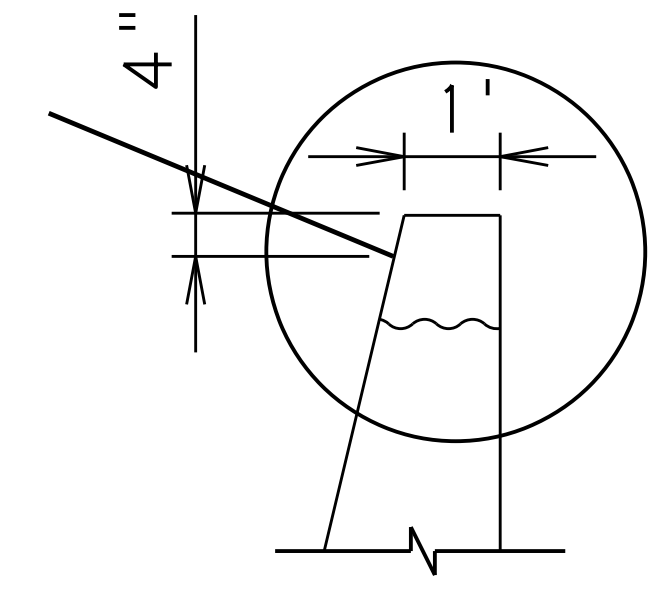
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SPECIAL DETAILS



ELEVATION



TYPICAL SECTION



BEVEL DETAIL

BEVEL DIMENSION	
	DIAMETER OF PIPE
	30"
DEPTH	1 1/4"
LENGTH	2"

NOTES

ALL CONCRETE SHALL BE CLASS "B" CONCRETE

ALL CONCRETE EDGES SHALL HAVE A 3*4 X 45 DEG CHAMFER. CHAMFER ON VERTICAL EDGES SHALL BE CONTINUED A MINIMUM OF ONE FOOT BELOW FINISHED GROUND LINE.

WHEN HEADWALLS ARE PLACED ON THE INLET END OF CORRUGATED METAL PIPE OR SKEWED CONCRETE PIPE, A BEVEL SHALL BE SET IN FROM THE FACE OF THE WALL, AS SHOWN ON THE "BEVEL DETAIL" AND THE BEVEL CONSTRUCTED FROM THE END OF THE PIPE TO THE FACE OF THE WALL. WHEN HEADWALLS ARE PLACED ON THE INLET END OF CONCRETE PIPE, THE "BELL" OR "GROOVE" OF THE PIPE SHALL BE PLACED IN THE WALL IN LIEU OF THE BEVEL, EXCEPT WHEN THE PIPE IS TO BE CUT FOR PLACING IN SKEWED HEADWALLS. THE INSIDE OF THE "BELL" OR "GROOVE" SHALL BE FILLED WITH CONCRETE UP TO THE FLOW LINE. BEVELS ARE NOT REQUIRED ON OUTLET HEADWALLS. REINFORCING FABRIC SHALL CONFORM TO THE REQUIREMENTS OF 709.3 AND 709.4 OF THE SPECIFICATIONS.

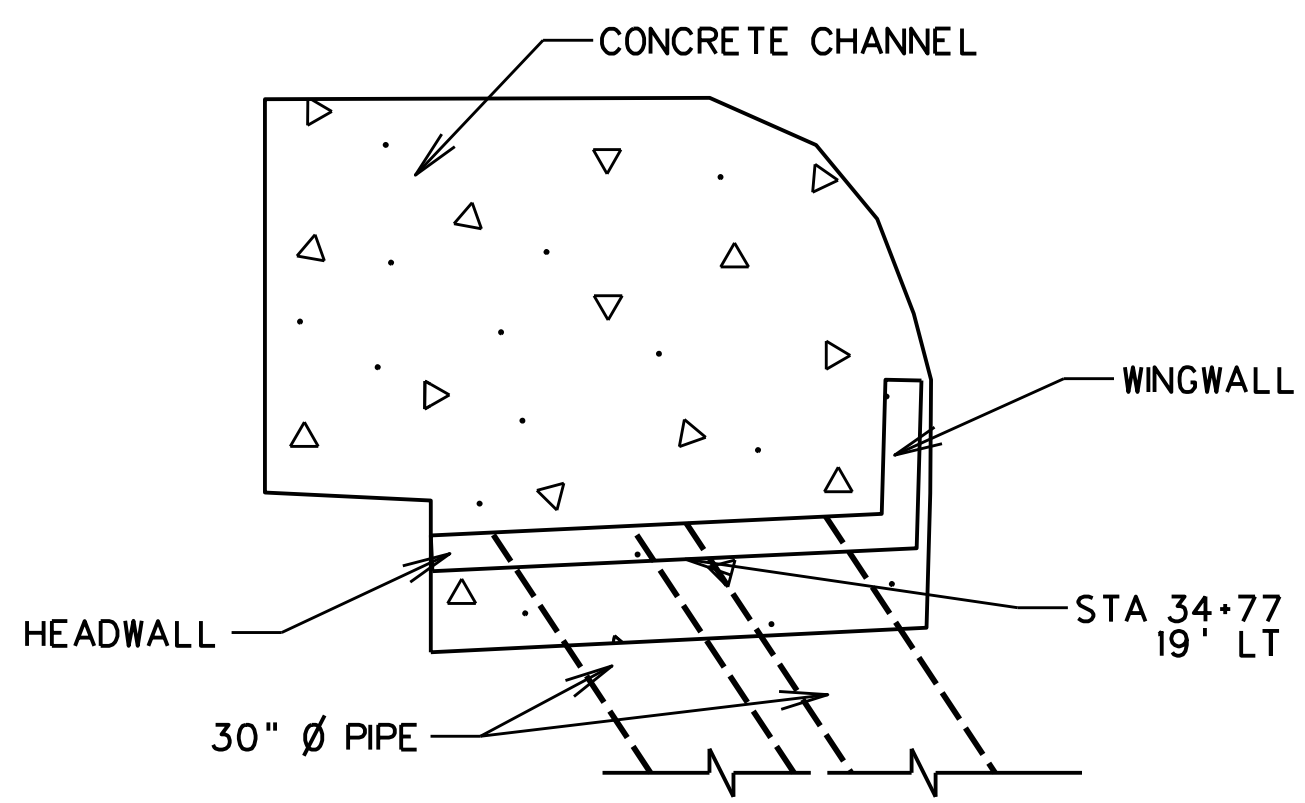
REINFORCING FABRIC, AS DETAILED HEREIN, SHALL BE USED IN ALL WALLS OF ALL HEADWALL STRUCTURES. THE COVERING FOR THE FABRIC SHALL BE TWO INCHES MEASURED FROM THE SURFACE OF THE CONCRETE TO THE FACE OF THE WIRE, UNLESS OTHERWISE SPECIFIED. THE FABRIC SHALL BE CUT AS NECESSARY TO ACCOMMODATE THE PIPE OPENING IN THE WALL AND MAY BE OTHERWISE CUT TO FIELD BENT TO FIT THE STRUCTURE.

IN LIEU OF THE REINFORCING FABRIC DESCRIBED ABOVE, AS SHOWN REINFORCING STEEL BARS, MEETING THE REQUIREMENTS OF 709.1 OF THE SPECIFICATIONS MAY BE USED IN THESE STRUCTURES. COVERING FOR THE REINFORCING SHALL BE TWO INCHES, MEASURED FROM THE SURFACE OF CONCRETE TO THE FACE OF THE BARS, UNLESS OTHERWISE SPECIFIED. BARS SHALL BE FURNISHED IN SUCH LENGTHS, OR FIELD BENT OR CUT AS NECESSARY, TO FIT THE STRUCTURES AND TO ACCOMMODATE THE PIPE OPENING IN THE WALLS.

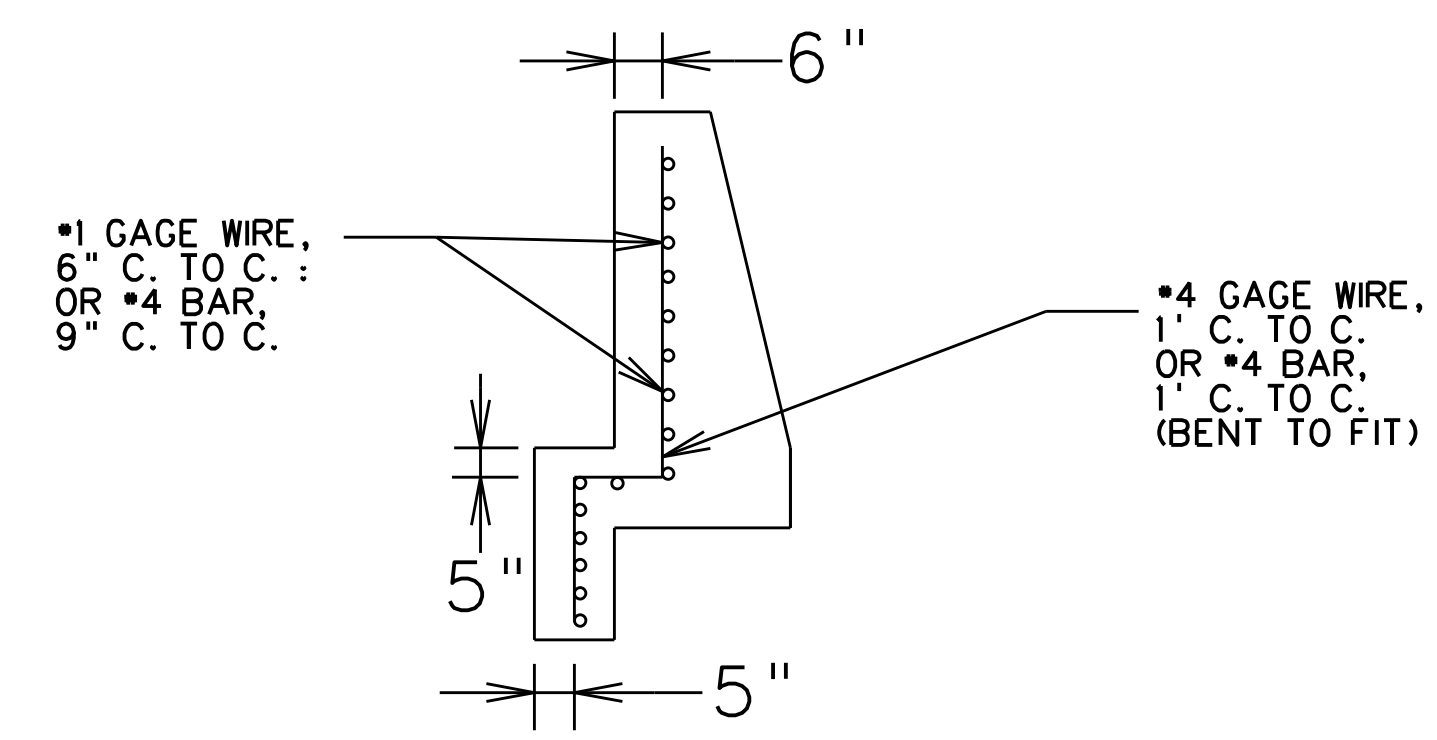
KEYED OR DOWELED TYPE CONSTRUCTION JOINTS, ACCEPTABLE TO THE ENGINE, MAY BE USED DURING CONSTRUCTION.

THE PAY QUANTITY FOR STRAIGHT HEADWALLS, CONSTRUCTED IN ACCORDANCE WITH THE DETAILS HEREIN, WILL BE THE CUBIC YARDS OF CLASS B CONCRETE SPECIFIED HEREIN.

COST OF ALL REINFORCING FABRIC AND REINFORCING BARS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR "CLASS B CONCRETE".

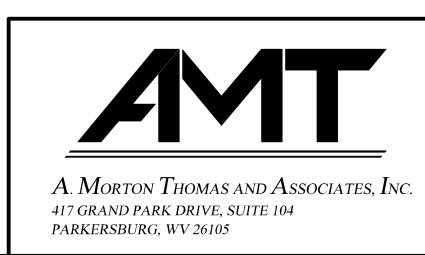


PLAN VIEW



SECTION X-X (SHOWING REINFORCING DETAILS)

SUBMITTED 6/29/2020



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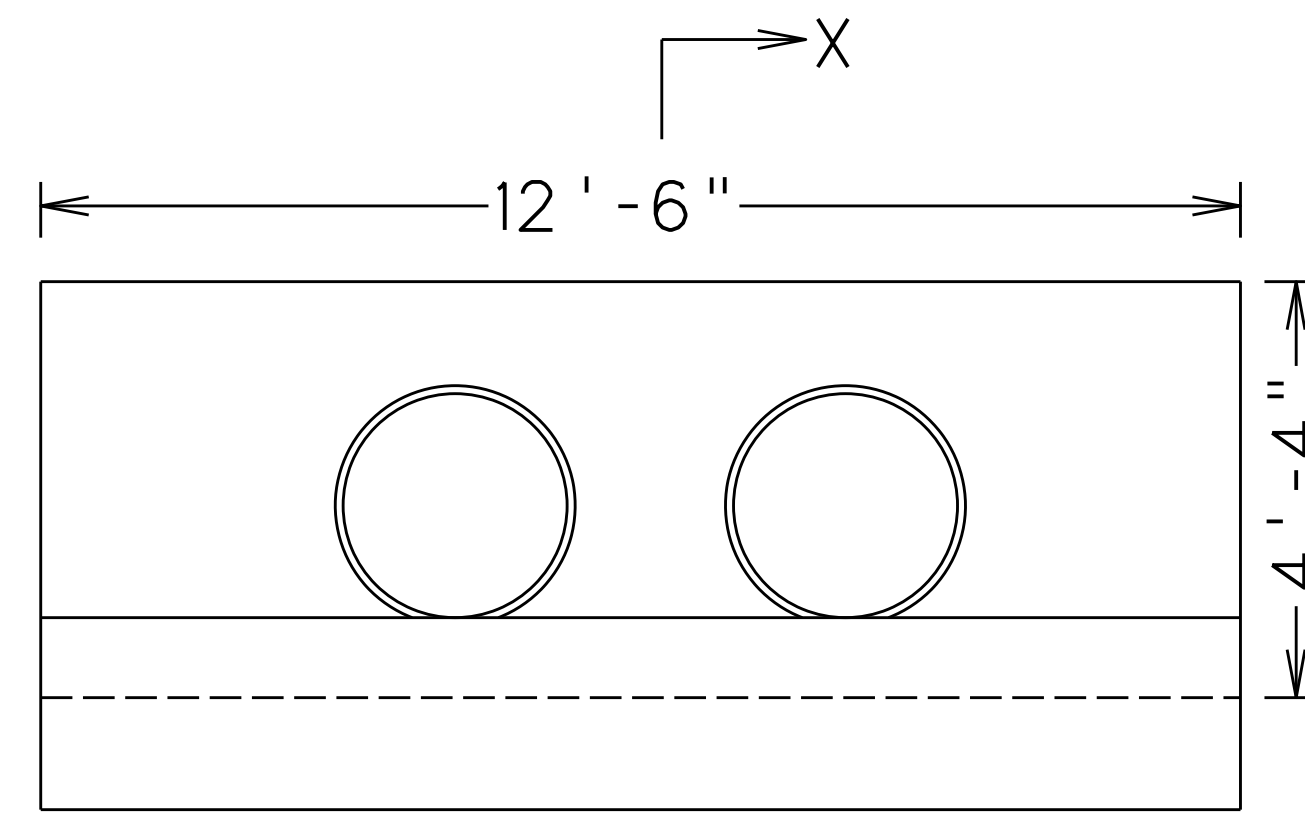
REINFORCING FABRIC, AS DETAILED HEREIN, SHALL BE USED IN ALL WALLS OF ALL HEADWALL STRUCTURES. THE COVERING FOR THE FABRIC SHALL BE TWO INCHES MEASURED FROM THE SURFACE OF THE CONCRETE TO THE FACE OF THE WIRE, UNLESS OTHERWISE SPECIFIED. THE FABRIC SHALL BE CUT AS NECESSARY TO ACCOMMODATE THE PIPE OPENING IN THE WALL AND MAY BE OTHERWISE CUT TO FIELD BENT TO FIT THE STRUCTURE.

IN LIEU OF THE REINFORCING FABRIC DESCRIBED ABOVE, AS SHOWN REINFORCING STEEL BARS, MEETING THE REQUIREMENTS OF 709.1 OF THE SPECIFICATIONS MAY BE USED IN THESE STRUCTURES. COVERING FOR THE REINFORCING SHALL BE TWO INCHES, MEASURED FROM THE SURFACE OF CONCRETE TO THE FACE OF THE BARS, UNLESS OTHERWISE SPECIFIED. BARS SHALL BE FURNISHED IN SUCH LENGTHS, OR FIELD BENT OR CUT AS NECESSARY, TO FIT THE STRUCTURES AND TO ACCOMMODATE THE PIPE OPENING IN THE WALLS.

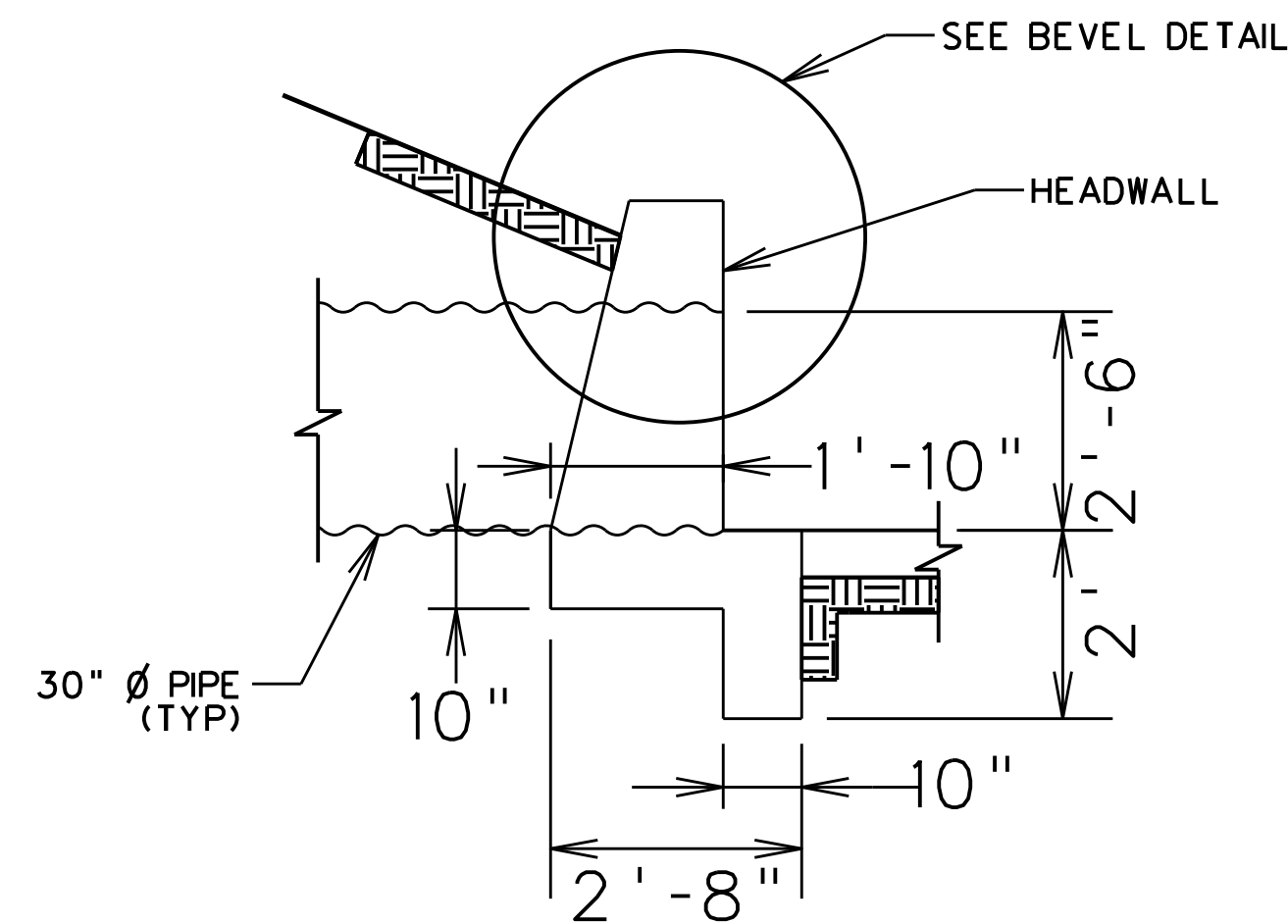
KEYED OR DOWELED TYPE CONSTRUCTION JOINTS, ACCEPTABLE TO THE ENGINE, MAY BE USED DURING CONSTRUCTION.

THE PAY QUANTITY FOR STRAIGHT HEADWALLS, CONSTRUCTED IN ACCORDANCE WITH THE DETAILS HEREIN, WILL BE THE CUBIC YARDS OF CLASS B CONCRETE SPECIFIED HEREIN.

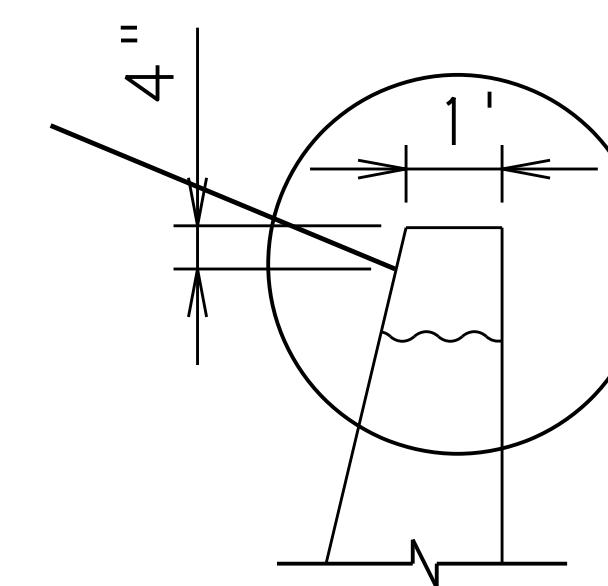
COST OF ALL REINFORCING FABRIC AND REINFORCING BARS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR "CLASS B CONCRETE".



ELEVATION

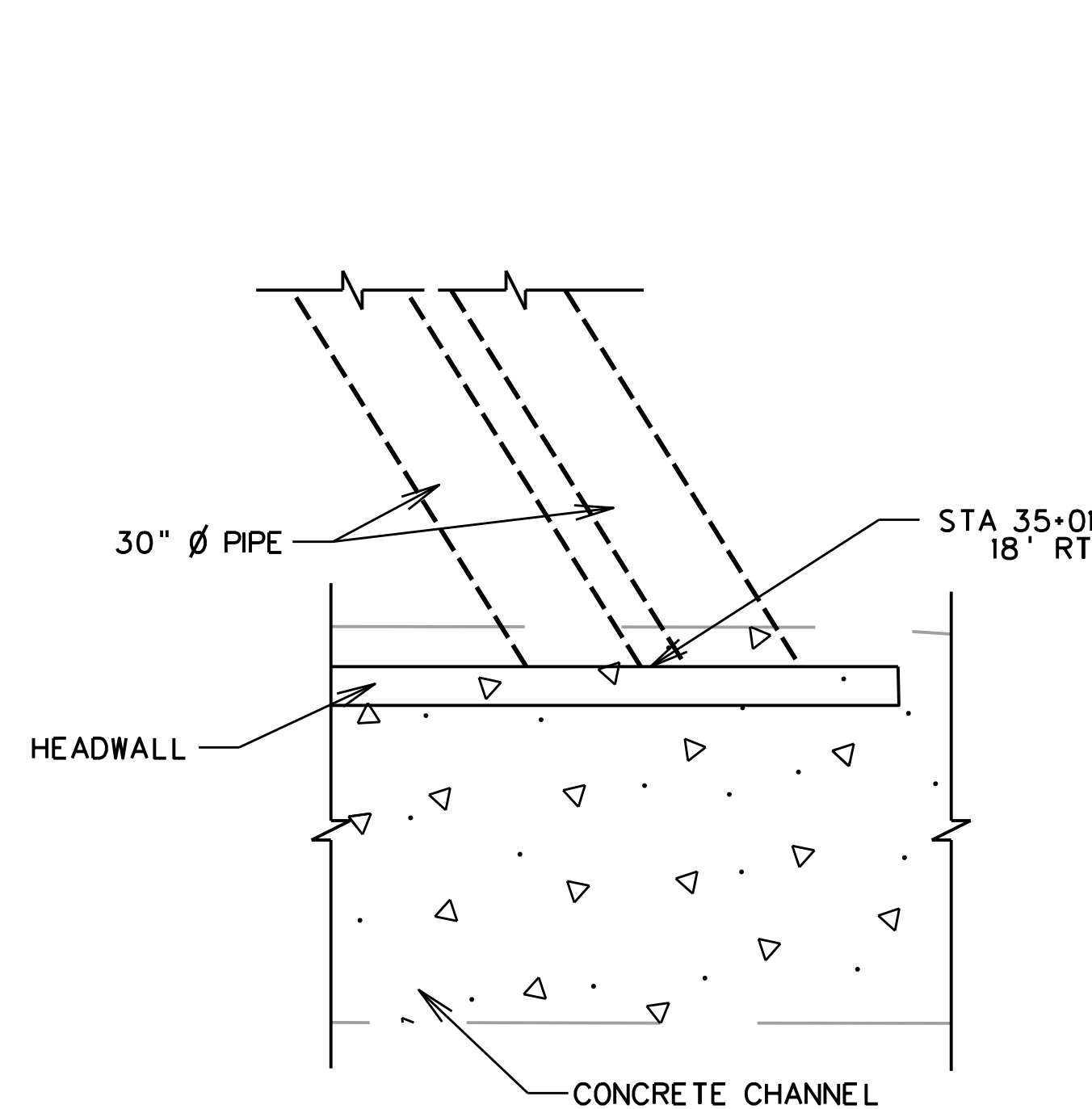


TYPICAL SECTION

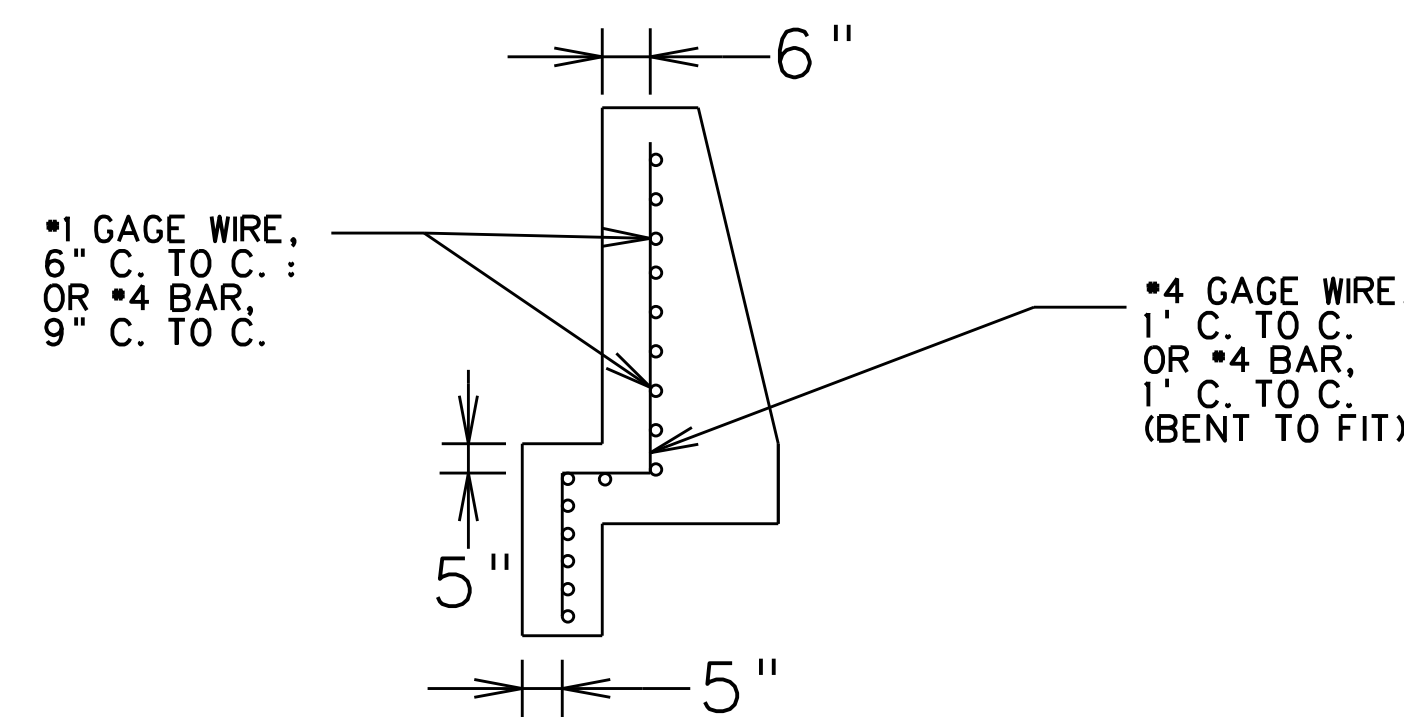


BEVEL DETAIL

BEVEL DIMENSION	
	DIAMETER OF PIPE
	30"
DEPTH	1 1/4"
LENGTH	2"

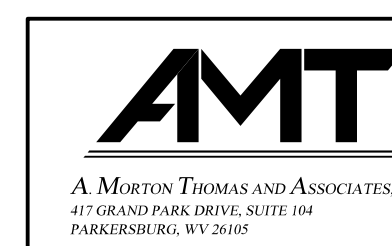


PLAN VIEW



SECTION X-X (SHOWING REINFORCING DETAILS)

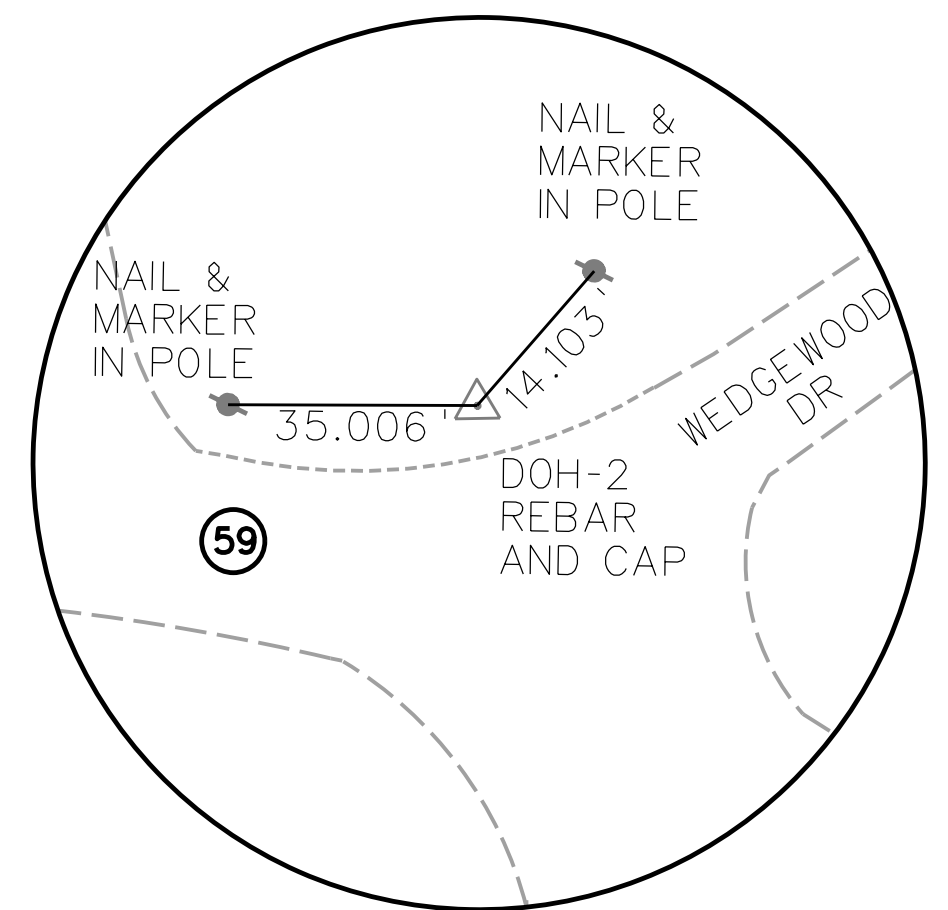
SUBMITTED 6/29/2020



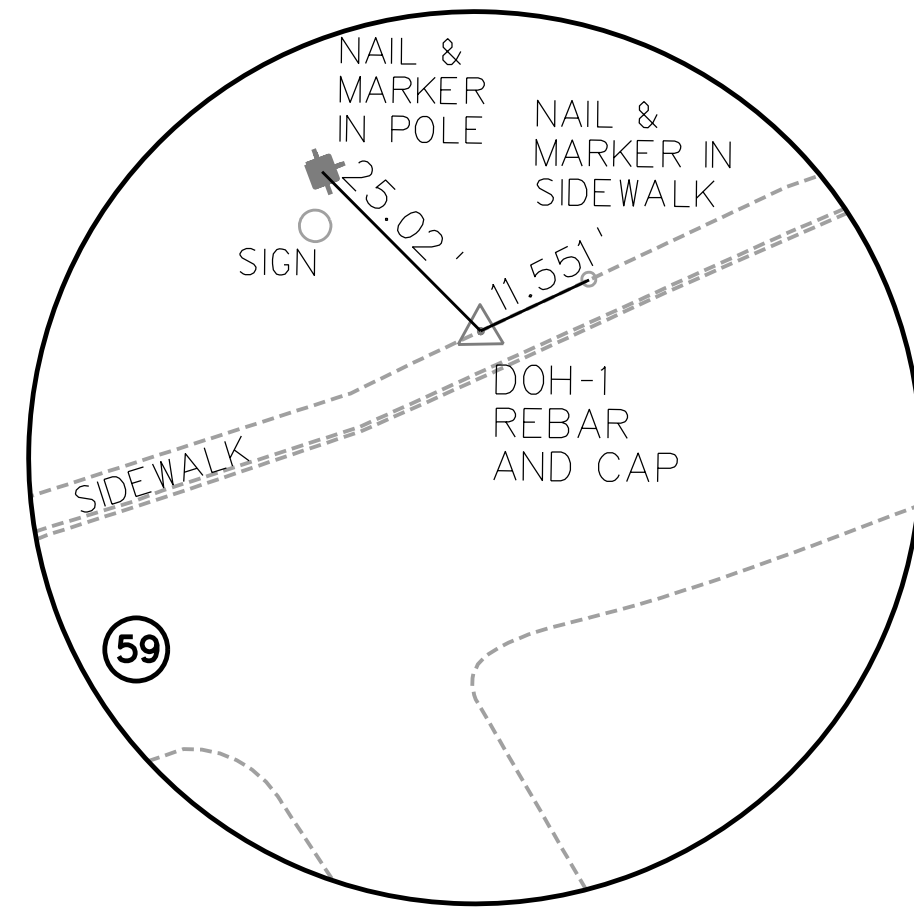
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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
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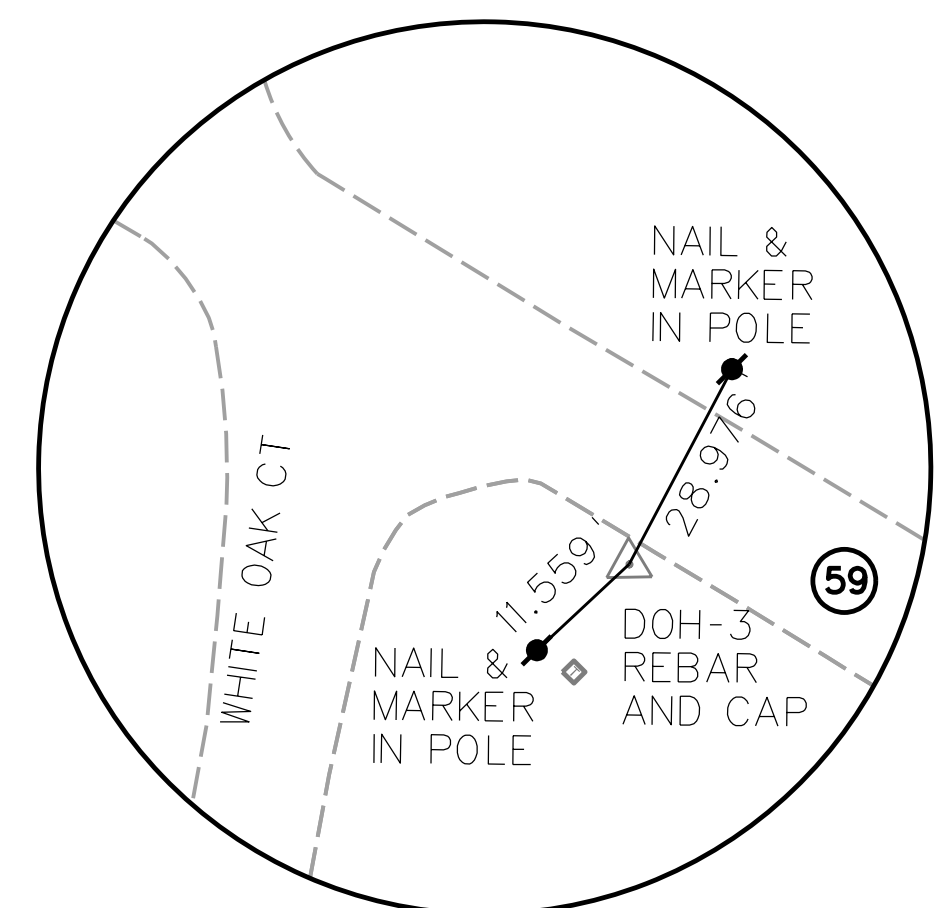
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	21	301



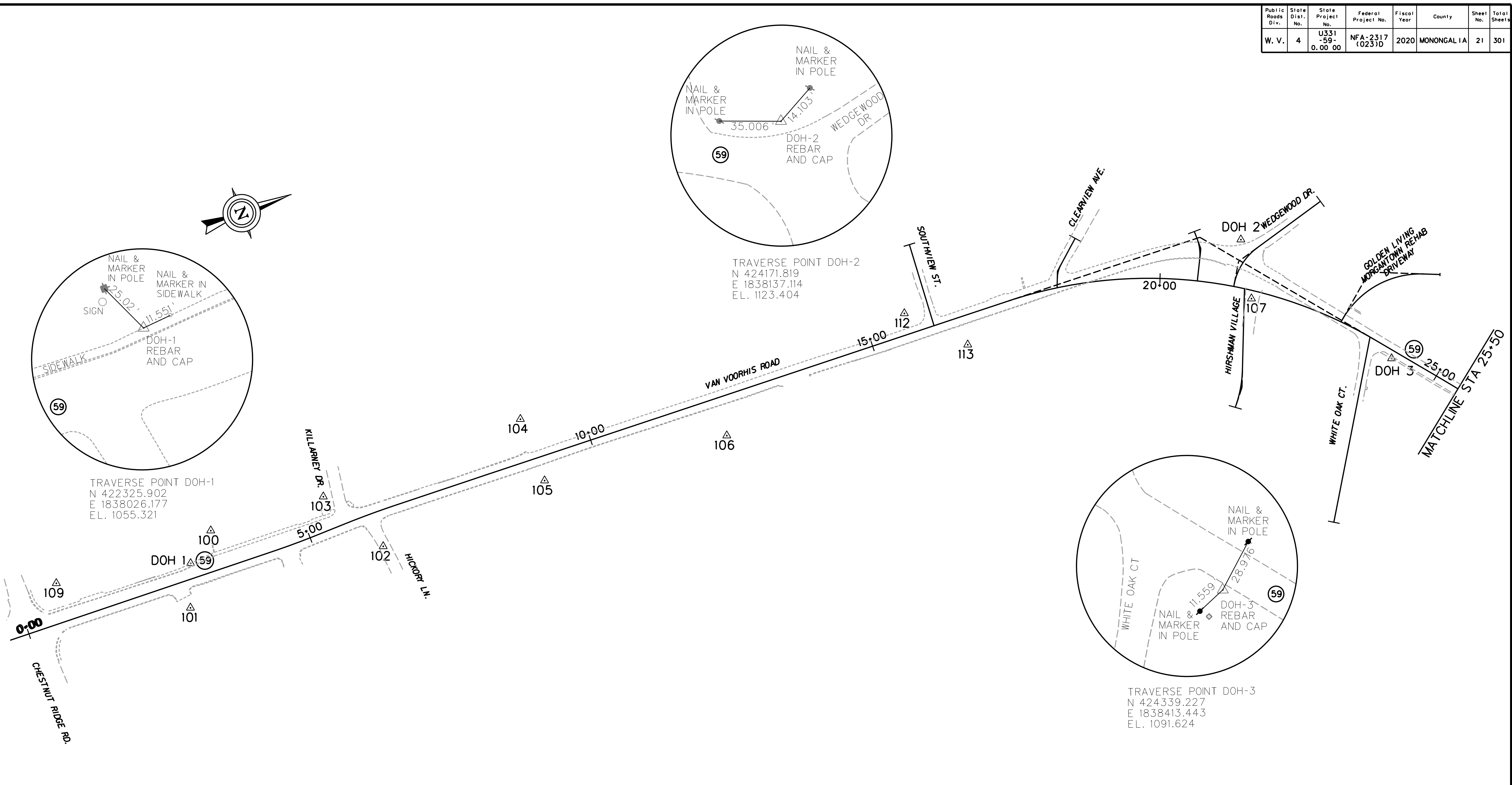
TRAVERSE POINT DOH-2
 N 424171.819
 E 1838137.114
 EL. 1123.404



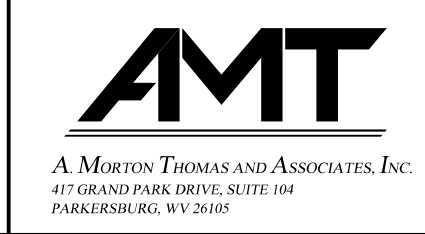
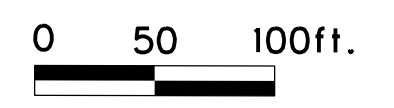
TRAVERSE POINT DOH-1
 N 422325.902
 E 1838026.177
 EL. 1055.321



TRAVERSE POINT DOH-3
 N 424339.227
 E 1838413.443
 EL. 1091.624



CONTROL POINTS			
POINT NAME	NORTHING	EASTING	ELEVATION
100	422377.010	1837986.442	1006.224
101	422299.387	1838096.063	1006.334
102	422639.373	1838113.209	1012.025
103	422574.381	1837999.495	1008.196
104	422930.641	1837993.981	1012.882
105	422932.452	1838104.966	1018.349
106	423246.073	1838141.886	1043.107
107	424153.573	1838236.237	1122.288
108	424182.615	1838158.443	1123.605
109	422102.524	1837978.182	1002.155
110	421932.494	1837961.206	1000.985
111	421904.166	1838091.542	1001.100
112	423597.971	1838054.380	1049.621
113	423679.366	1838141.093	1063.613

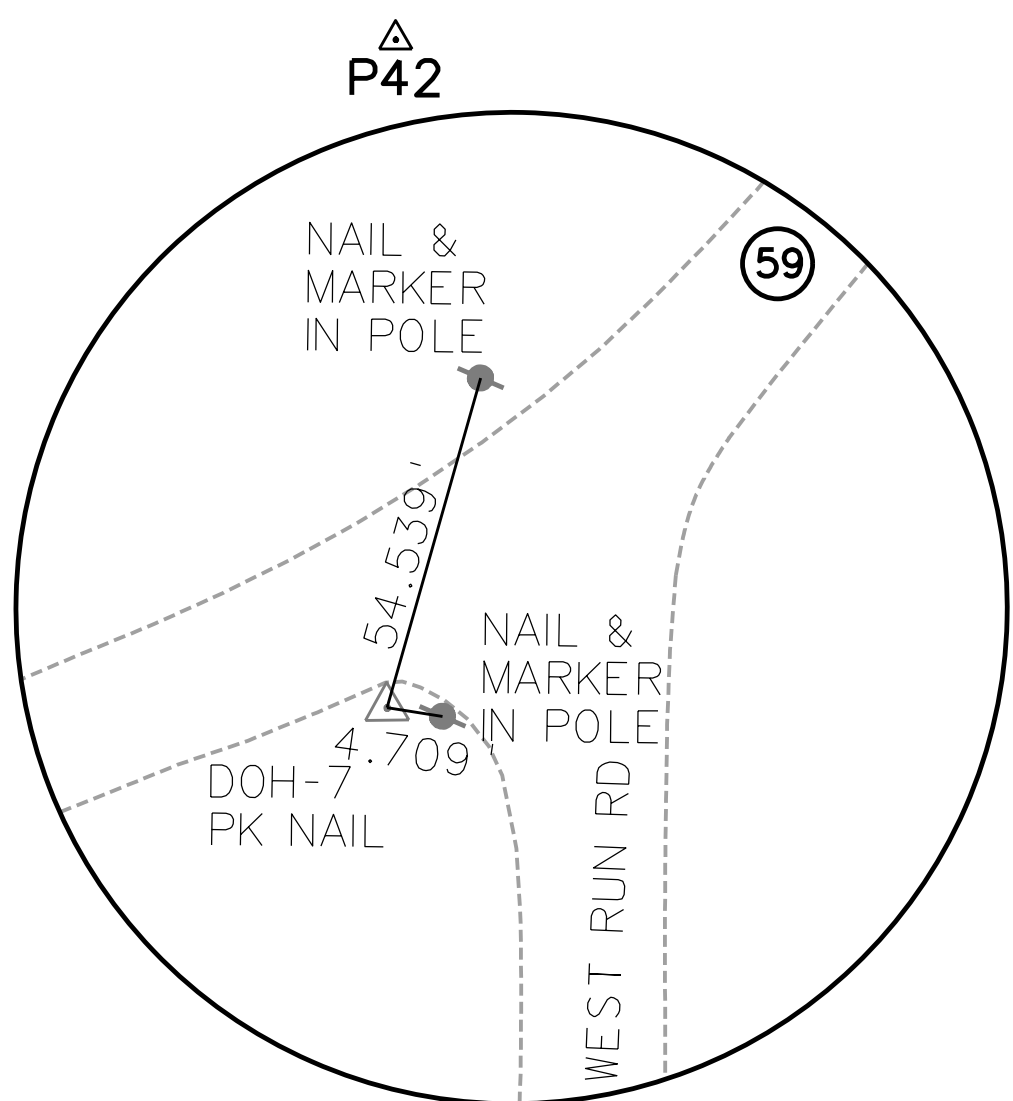
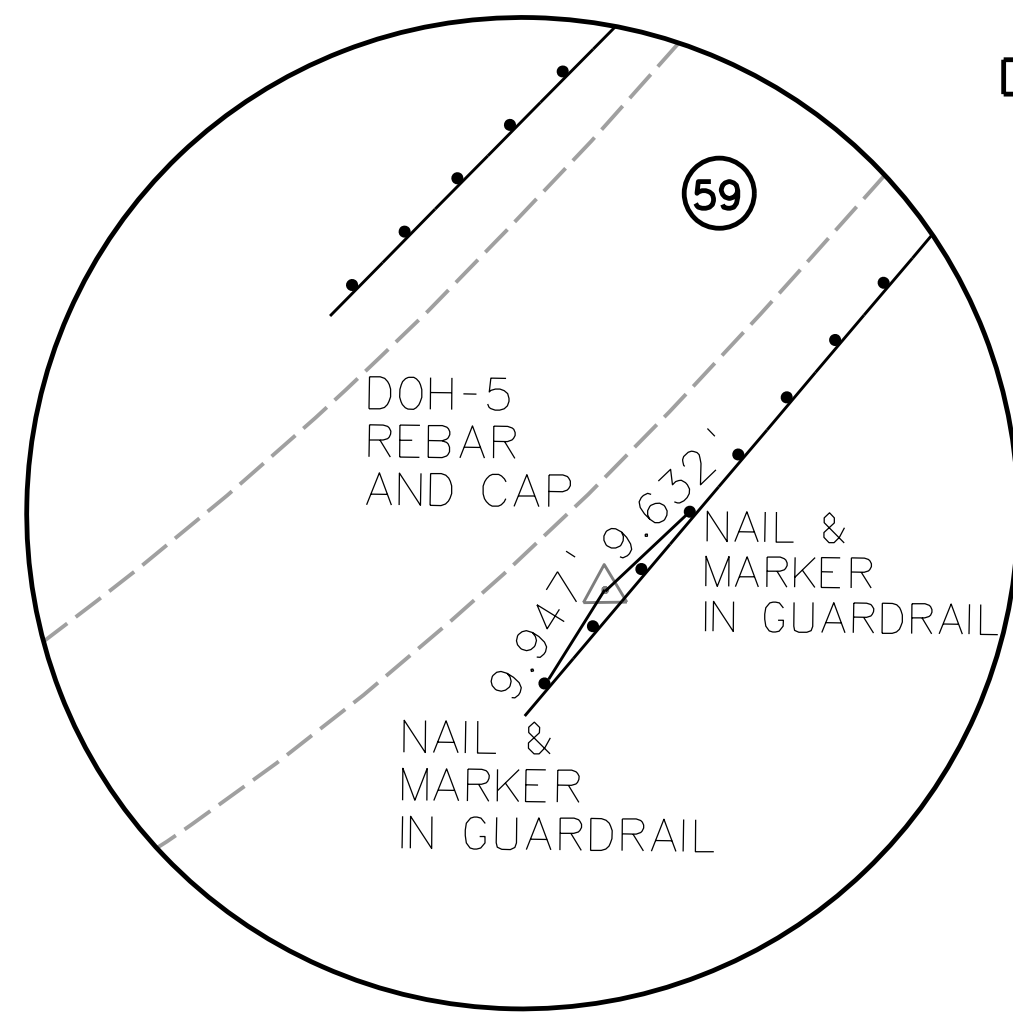
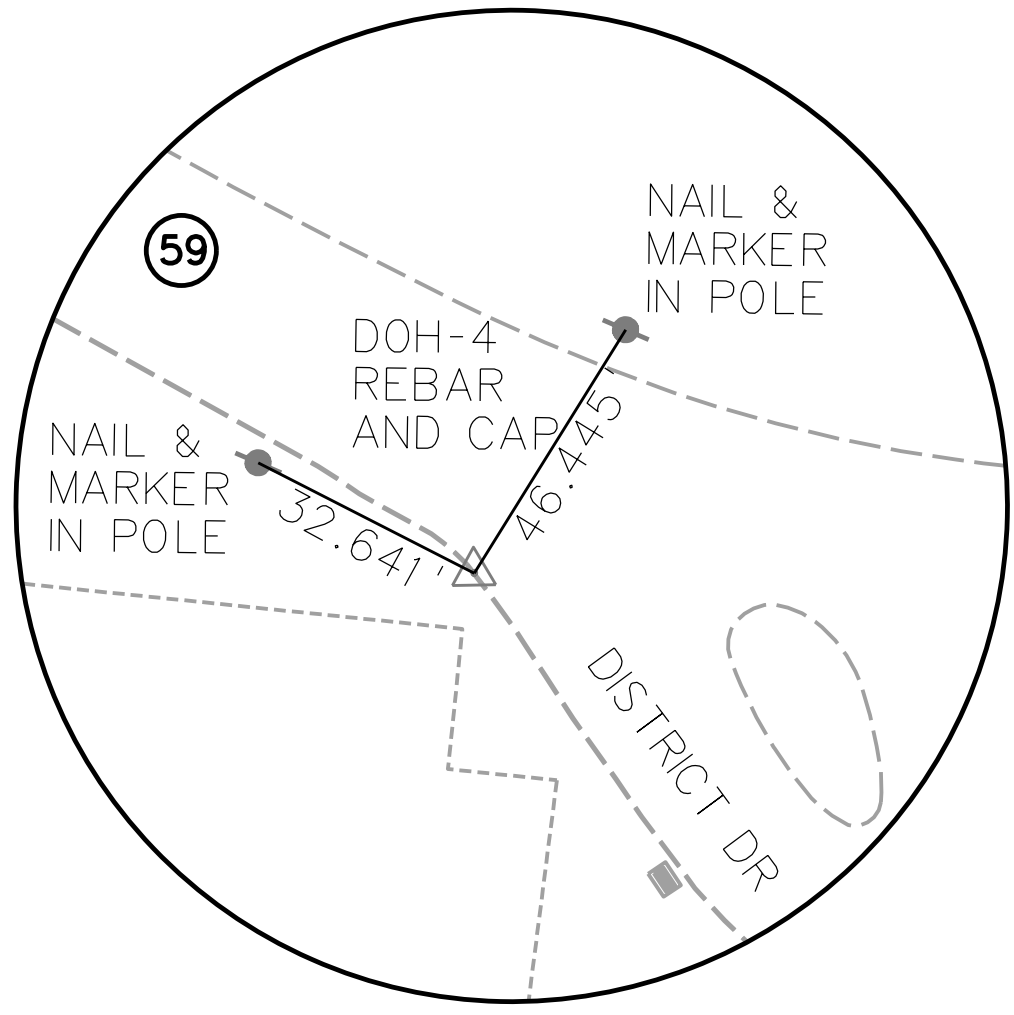
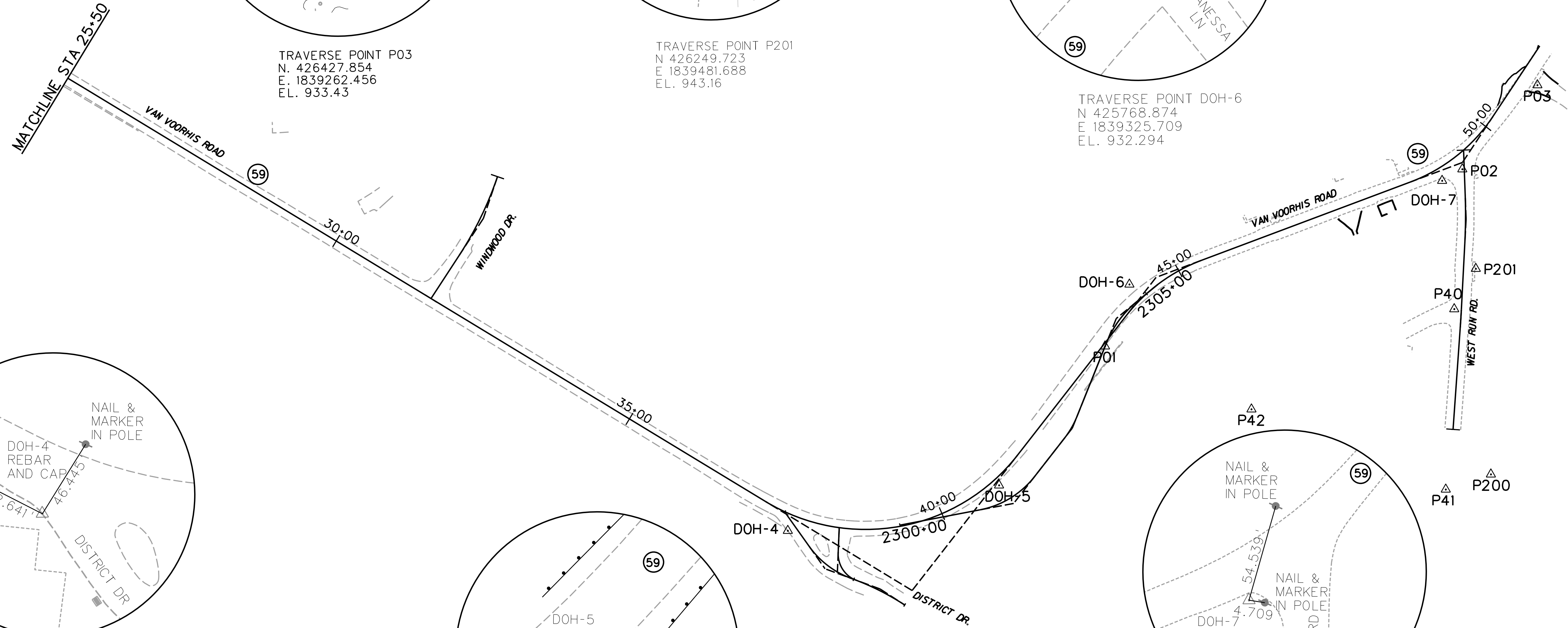
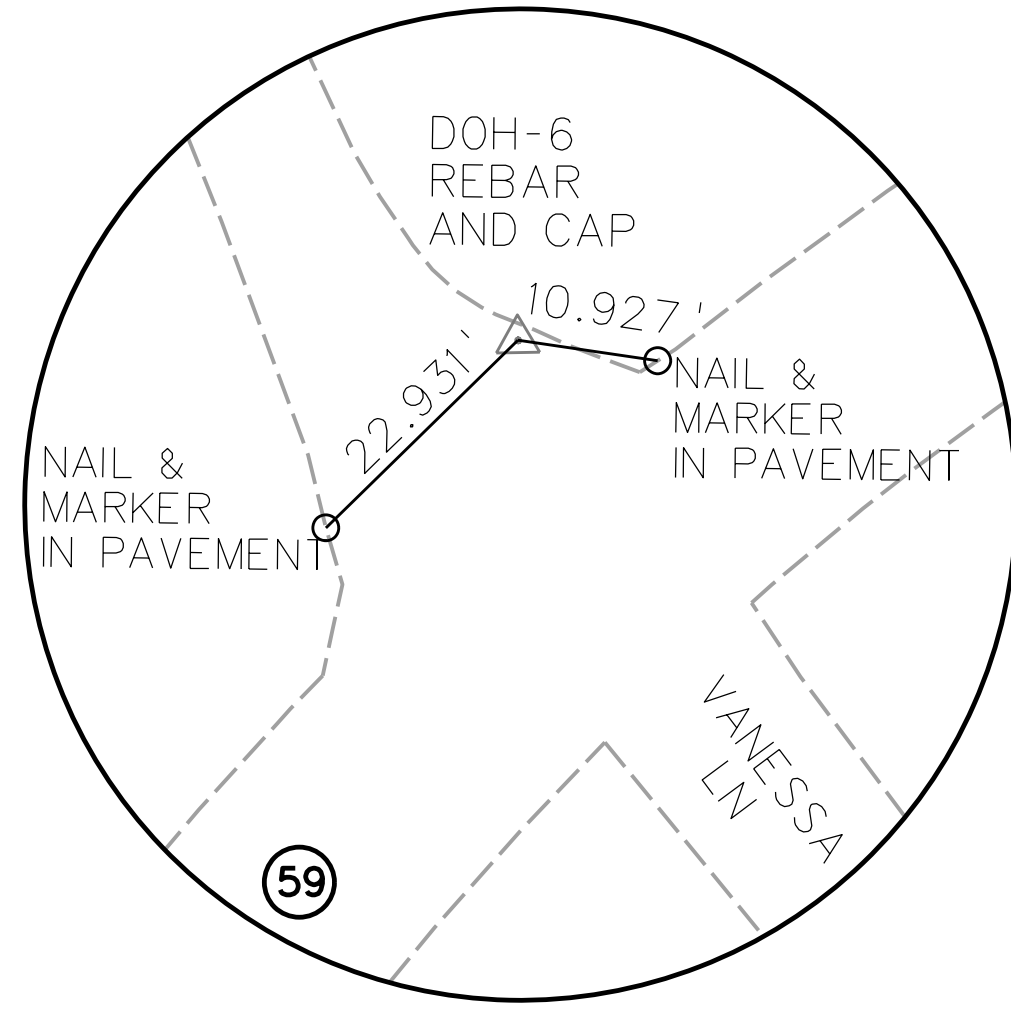
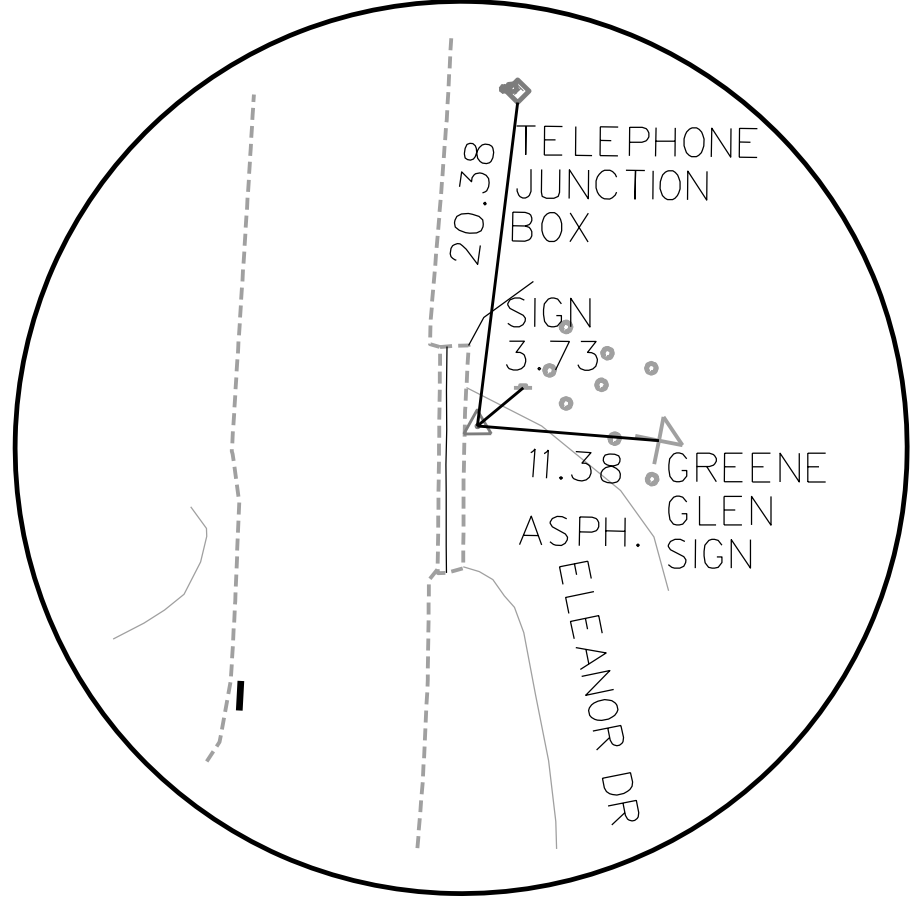
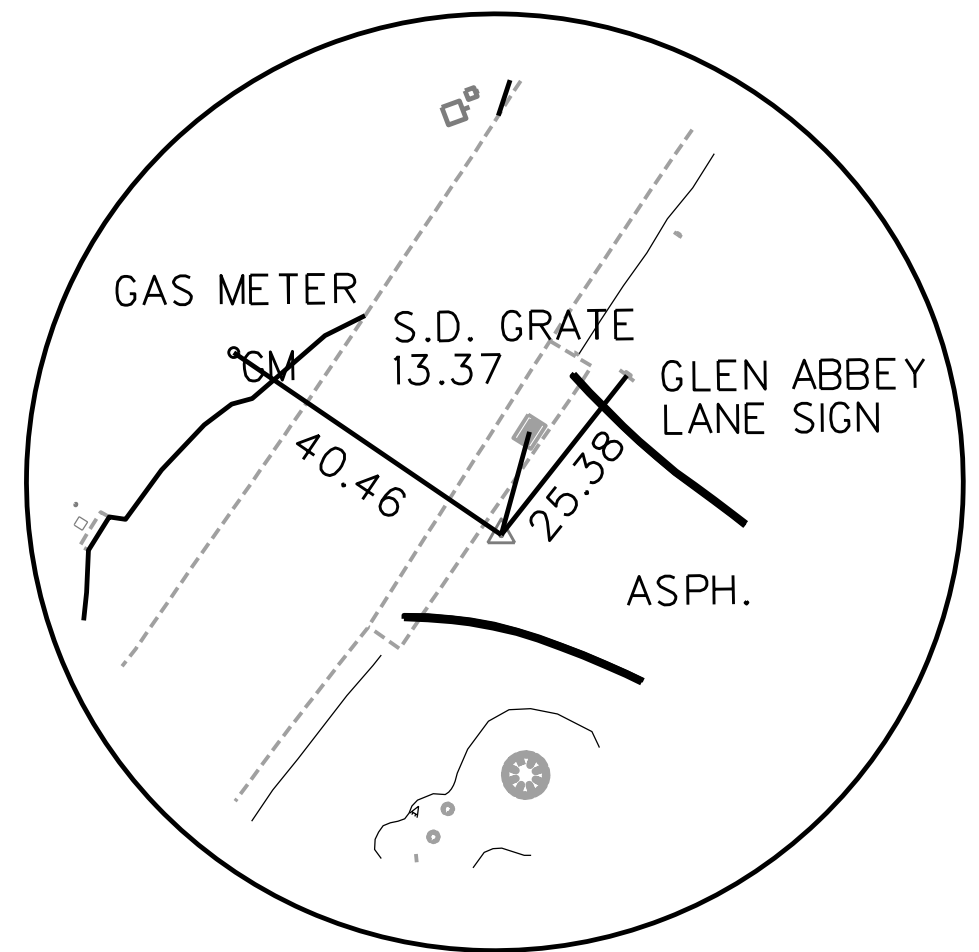
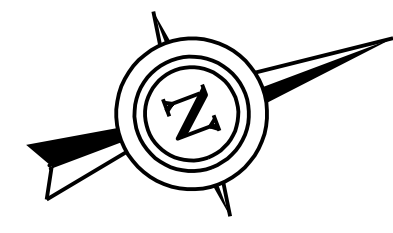


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

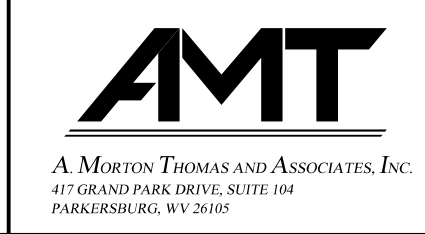
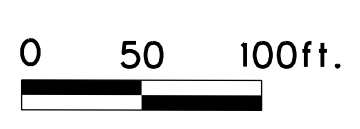
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
SURVEY REFERENCE POINTS

SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	22	301



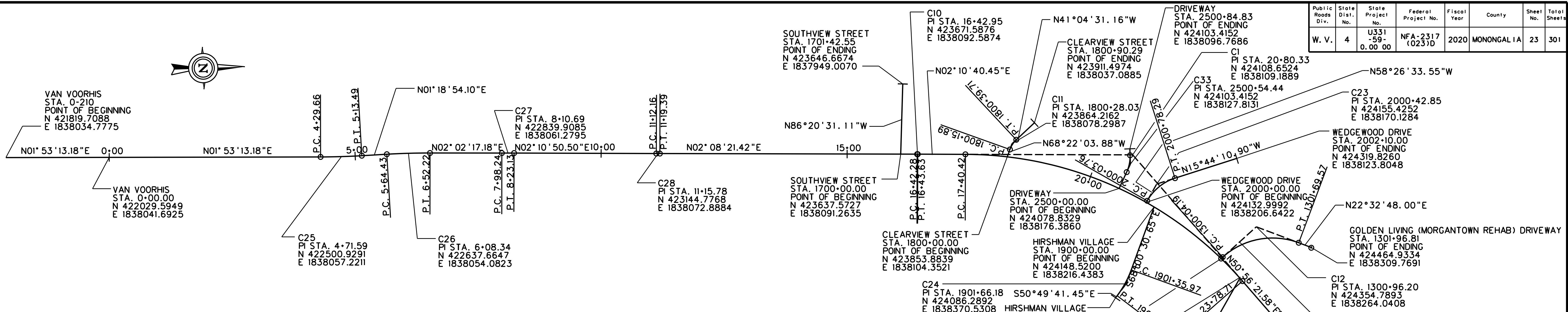
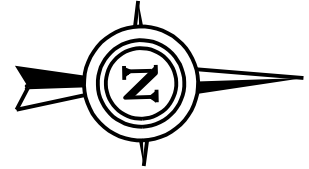
CONTROL POINTS			
POINT NAME	NORTHING	EASTING	ELEVATION
P01	425703.929	1839397.644	932.650
P02	426282.253	1839338.863	934.381
P03	426427.854	1839262.456	933.426
P40	426199.621	1839525.706	947.451
P201	426249.723	1839481.688	943.164
P200	426164.964	1839770.144	984.181
P41	426095.564	1839767.699	971.249
P42	425871.438	1839558.700	940.502



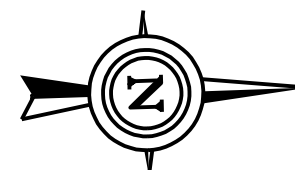
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SURVEY REFERENCE POINTS

SUBMITTED 6/29/2020



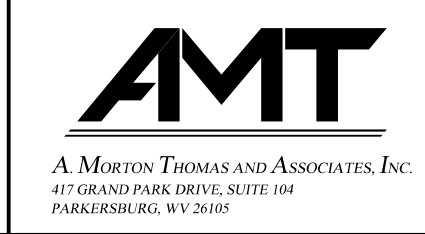
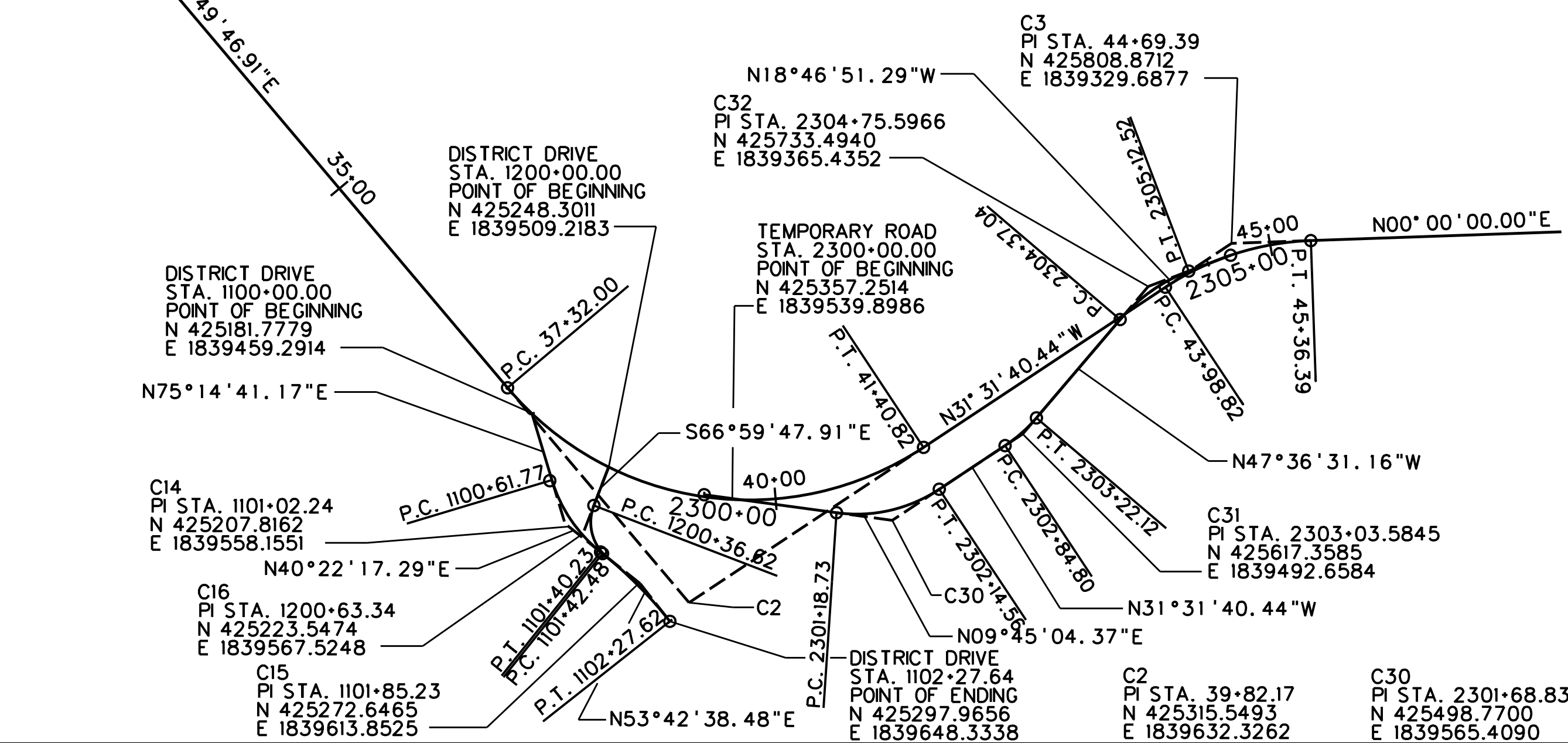
CURVE DATA								
ALIGNMENT	CURVE #	P. I. STA.	DELTA	Dc	RADIUS	LENGTH	TANGENT	EXTERNAL
VAN VOORHIS	C1	20+80.33	48°45'41"	7°38'22"	750.00	638.2856	339.9107	73.4314
VAN VOORHIS	C2	39+82.17	83°21'27"	20°23'24"	281.00	408.8169	250.1754	95.2296
VAN VOORHIS	C3	44+69.39	31°31'40"	22°55'06"	250.00	137.5664	70.5730	9.7702
VAN VOORHIS	C10	16+42.95	0°02'19"	2°51'53"	2000.00	1.3481	0.6740	0.0001
CLEARVIEW ST.	C11	1800+28.03	27°17'33"	114°35'30"	50.00	23.8171	12.1390	1.4524
GOLDEN LIVING	C12	1300+96.20	62°32'47"	37°49'08"	151.50	165.3832	92.0162	25.7547
WINDWOOD DRIVE	C13	1401+39.60	14°27'52"	11°18'25"	506.73	127.9267	64.3052	4.0639
DISTRICT DRIVE	C14	1101+02.24	34°34'41"	44°04'25"	130.00	78.4551	40.4632	6.1516
DISTRICT DRIVE	C15	1101+85.23	13°02'38"	15°19'11"	374.00	85.1448	42.7572	2.4362
DISTRICT DRIVE	C16	1200+63.34	65°34'47"	138°06'46"	41.48	47.4828	26.7248	7.8630



CURVE DATA								
ALIGNMENT	CURVE #	P. I. STA.	DELTA	Dc	RADIUS	LENGTH	TANGENT	EXTERNAL
WEDGEWOOD DRIVE	C23	2000+42.85	42°42'23"	57°17'45"	100.00	74.5365	39.0953	7.3706
HIRSHAM VILLAGE	C24	1901+66.18	17°10'49"	28°38'52"	200.00	59.9707	30.2120	2.2690
VAN VOORHIS	C25	4+71.59	3°12'07"	3°49'11"	1500.00	83.8288	41.9253	0.5858
VAN VOORHIS	C26	6+08.34	3°21'11"	3°49'11"	1500.00	87.7848	43.9050	0.6424
VAN VOORHIS	C27	8+10.69	0°08'33"	0°34'23"	10000.00	24.8866	12.4433	0.0077
VAN VOORHIS	C28	11+15.78	0°02'29"	0°34'23"	10000.00	7.2276	3.6138	0.0007
VAN VOORHIS	C29	25+23.68	0°53'25"	0°57'18"	6000.00	93.2393	46.6206	0.1811
TEMPORARY ROAD	C30	2301+68.83	41°16'45"	43°04'46"	133.00	95.8207	50.0962	9.1219
TEMPORARY ROAD	C31	2303+03.58	16°04'51"	43°04'46"	133.00	37.3281	18.7875	1.3204
TEMPORARY ROAD	C32	2304+75.60	28°49'40"	38°11'50"	150.00	75.4709	38.5522	4.8750
DRIVEWAY	C33	2500+54.44	26°50'37"	76°23'40"	75.00	35.1381	17.8977	2.1059

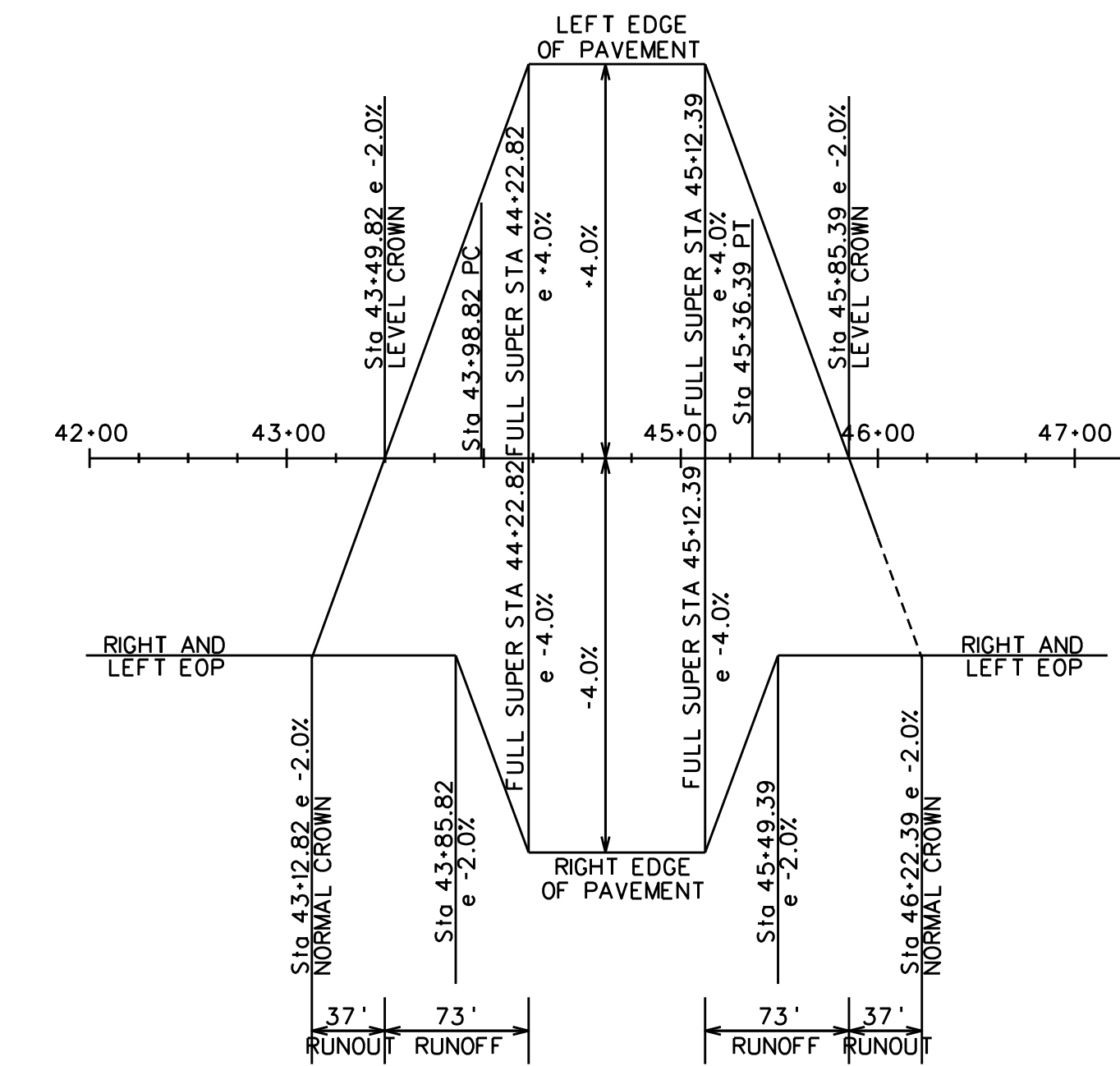
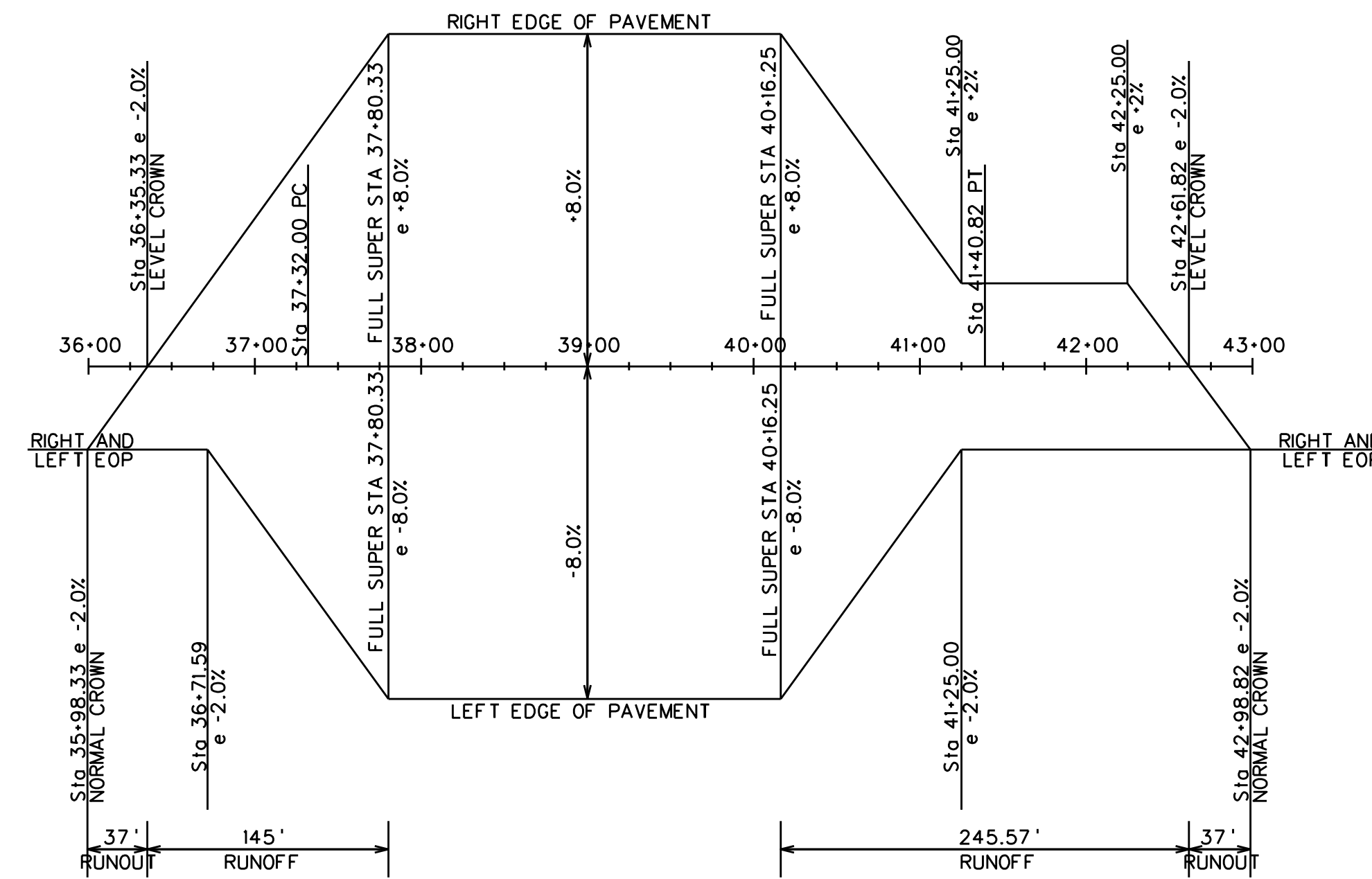
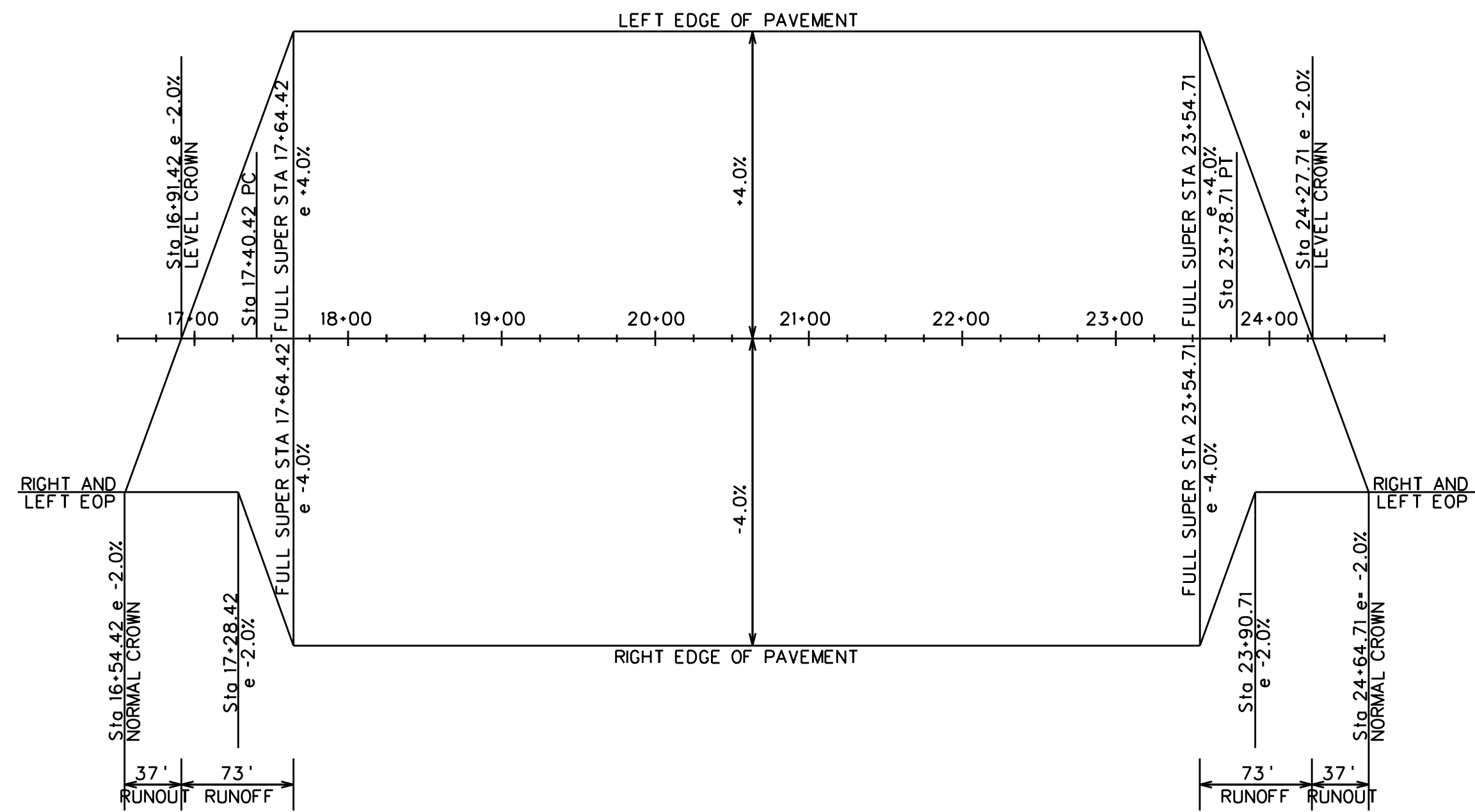
MATCHLINE STA. 32+00

MATCHLINE STA. 32+00



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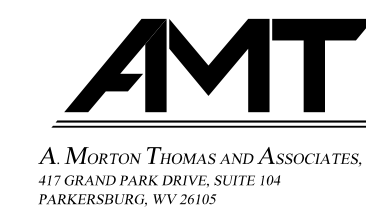
SUBMITTED 6/29/2020



CENTERLINE VAN VOORHIS									
CURVE 1					DESIGN SPEED=30 MPH				
PI = STA 20+80.33					R=750 FT				
PC = STA 17+40.42					MINIMUM LENGTH OF RUNOFF= 73 FT				
PT = STA 23+78.71					MINIMUM RUNOUT= 37 FT				
SUPERELEVATION TABLE									
SOUTHBOUND VAN VOORHIS					NORTHBOUND VAN VOORHIS				
STATION	LT. PVMT EDGE ELEV.	CORR.	WIDTH	RATE	CL PROFILE GRADE	RATE	WIDTH	CORR.	RT PVMT EDGE ELEV.
16+75	1064.28	-0.09	10.00	-0.009	1064.37	-0.02	10.00	-0.200	1064.17
17+00	1068.09	0.04	10.00	0.004	1068.05	-0.02	10.00	-0.200	1067.85
17+25	1071.94	0.18	10.00	0.018	1071.76	-0.02	10.00	-0.200	1071.56
17+50	1075.82	0.35	10.91	0.032	1075.47	-0.032	10.00	-0.320	1075.15
17+75	1079.67	0.48	12.10	0.04	1079.19	-0.04	10.00	-0.400	1078.79
18+00	1083.47	0.57	14.14	0.04	1082.90	-0.04	10.00	-0.400	1082.50
18+25	1087.29	0.68	17.05	0.04	1086.61	-0.04	10.00	-0.400	1086.21
18+50	1091.05	0.73	18.21	0.04	1090.32	-0.04	10.00	-0.400	1089.92
18+75	1094.80	0.77	19.37	0.04	1094.03	-0.04	10.00	-0.400	1093.63
19+00	1098.55	0.80	19.94	0.04	1097.75	-0.04	10.00	-0.400	1097.35
19+25	1102.26	0.80	20.00	0.04	1101.46	-0.04	10.00	-0.400	1101.06
19+50	1105.97	0.80	20.00	0.04	1105.17	-0.04	10.00	-0.400	1104.77
19+75	1109.63	0.80	20.00	0.04	1108.83	-0.04	10.00	-0.400	1108.43
20+00	1112.81	0.80	20.00	0.04	1112.01	-0.04	10.00	-0.400	1111.61
20+25	1115.42	0.80	20.00	0.04	1114.62	-0.04	10.00	-0.400	1114.22
20+50	1117.46	0.80	20.00	0.04	1116.66	-0.04	10.00	-0.400	1116.26
20+75	1118.94	0.80	20.00	0.04	1118.14	-0.04	10.00	-0.400	1117.74
21+00	1119.85	0.80	20.00	0.04	1119.05	-0.04	10.00	-0.400	1118.65
21+25	1120.18	0.80	20.00	0.04	1119.38	-0.04	10.00	-0.400	1118.98
21+50	1119.96	0.80	20.00	0.04	1119.16	-0.04	10.00	-0.400	1118.76
21+75	1119.16	0.80	19.90	0.04	1118.36	-0.04	10.00	-0.400	1117.96
22+00	1117.73	0.74	18.41	0.04	1116.99	-0.04	10.00	-0.400	1116.59
22+25	1115.74	0.68	16.88	0.04	1115.06	-0.04	10.00	-0.400	1114.66
22+50	1113.17	0.61	15.31	0.04	1112.56	-0.04	10.00	-0.400	1112.16
22+75	1110.24	0.55	13.72	0.04	1109.69	-0.04	10.00	-0.400	1109.29
23+00	1107.62	0.80	20.00	0.04	1106.82	-0.04	10.00	-0.400	1106.42
23+25	1104.66	0.72	18.06	0.04	1103.94	-0.04	10.00	-0.400	1103.54
23+50	1101.70	0.63	15.81	0.04	1101.07	-0.04	10.00	-0.400	1100.67
23+75	1098.49	0.29	10.00	0.029	1098.20	-0.028	10.00	-0.280	1097.92
24+00	1095.67	0.15	10.00	0.015	1095.52	-0.02	10.00	-0.200	1095.32
24+25	1092.88	0.02	10.00	0.002	1092.86	-0.02	10.00	-0.200	1092.66
24+50	1090.09	-0.12	10.00	-0.012	1090.21	-0.02	10.00	-0.200	1090.01

CENTERLINE VAN VOORHIS									
CURVE 2					DESIGN SPEED=30 MPH				
PI = STA 39+82.17					R=281 FT				
PC = STA 37+32.00					MINIMUM LENGTH OF RUNOFF= 145 FT				
PT = STA 41+40.82					MINIMUM RUNOUT= 37 FT				
SUPERELEVATION TABLE									
SOUTHBOUND VAN VOORHIS					NORTHBOUND VAN VOORHIS				
STATION	LT. PVMT EDGE ELEV.	CORR.	WIDTH	RATE	CL PROFILE GRADE	RATE	WIDTH	CORR.	RT PVMT EDGE ELEV.
36+00	982.91	-0.20	10.00	-0.02	983.11	-0.02	10.00	-0.200	982.91
36+25	981.47	-0.20	10.00	-0.02	981.67	-0.006	10.00	-0.060	981.61
36+50	980.04	-0.20	10.00	-0.02	980.24	0.008	10.00	0.080	980.32
36+75	978.52	-0.22	10.00	-0.022	978.74	0.022	10.00	0.220	978.96
37+00	976.77	-0.36	10.00	-0.036	977.13	0.035	10.00	0.350	977.48
37+25	974.79	-0.49	10.00	-0.049	975.28	0.049	10.00	0.490	975.77
37+50	972.57	-0.63	10.00	-0.063	973.20	0.063	10.00	0.630	973.83
37+75	970.02	-0.77	10.00	-0.077	970.79	0.077	10.00	0.770	971.56
38+00	967.45	-0.80	10.00	-0.08	968.25	0.08	10.00	0.800	969.05
38+25	964.19	-0.80	10.00	-0.08	964.99	0.08	10.00	0.800	965.79
38+50	960.65	-0.80	10.00	-0.08	961.45	0.08	10.00	0.800	962.25
38+75	957.17	-0.80	10.00	-0.08	957.97	0.08	10.00	0.800	958.77
39+00	953.71	-0.80	10.00	-0.08	954.51	0.08	10.00	0.800	955.31
39+25	950.53	-0.80	10.00	-0.08	951.33	0.08	10.00	0.800	952.13
39+50	947.70	-0.80	10.00	-0.08	948.50	0.08	10.00	0.800	949.30
39+75	945.23	-0.80	10.00	-0.08	946.03	0.08	10.00	0.800	946.83
40+00	943.10	-0.80	10.00	-0.08	943.90	0.08	10.00	0.800	944.70
40+25	941.37	-0.75	10.00	-0.075	942.12	0.075	10.00	0.750	942.87
40+50	940.08	-0.61	10.00	-0.061	940.69	0.061	10.00	0.610	941.30
40+75	939.13	-0.48	10.00	-0.048	939.61	0.048	10.00	0.480	940.09
41+00	938.50	-0.34	10.00	-0.034	938.84	0.034	10.00	0.340	939.18
41+25	937.93	-0.20	10.00	-0.02	938.13	0.02	10.00	0.200	938.33
41+50	937.23	-0.20	10.00	-0.02	937.43	0.02	10.00	0.200	937.63
41+75	936.52	-0.20	10.00	-0.02	936.72	0.02	10.00	0.200	936.92
42+00	935.81	-0.20	10.00	-0.02	936.01	0.02	10.00	0.200	936.21
42+25	935.11	-0.20	10.00	-0.02	935.31	0.02	10.00	0.200	935.51
42+50	934.43	-0.20	10.00	-0.02	934.63	0.006	10.00	0.060	934.69
42+75	933.83	-0.20	10.00	-0.02	934.03	-0.007	10.00	-0.070	933.96
43+00	933.32	-0.20	10.00	-0.02	933.52	-0.02	10.00	-0.200	933.32

CENTERLINE VAN VOORHIS									
CURVE 3					DESIGN SPEED=30 MPH				
PI = STA 44+69.39					R=250 FT				
PC = STA 43+98.82					MINIMUM LENGTH OF RUNOFF= 73 FT				
PT = STA 45+36.39					MINIMUM RUNOUT= 37 FT				
SUPERELEVATION TABLE									
SOUTHBOUND VAN VOORHIS					NORTHBOUND VAN VOORHIS				
STATION	LT. PVMT EDGE ELEV.	CORR.	WIDTH	RATE	CL PROFILE GRADE	RATE	WIDTH	CORR.	RT PVMT EDGE ELEV.
43+00	933.32	-0.20	10.00	-0.02	933.52	-0.02	10.00	-0.200	933.32
43+25	932.96	-0.13	10.00	-0.013	933.09	-0.02	10.00	-0.200	932.89
43+50	932.81	0.00	10.00	0	932.81	-0.02	10.00	-0.200	932.61
43+75	932.62	0.14	10.00	0.014	932.48	-0.02	10.00	-0.200	932.28
44+00	932.57	0.28	10.00	0.028	932.29	-0.028	10.00	-0.280	932.01
44+25	932.59	0.40	10.00	0.04	932.19	-0.04	10.00	-0.400	931.79
44+50	932.56	0.40	10.00	0.04	932.16	-0.04	10.00	-0.400	931.76
44+75	932.55	0.40	10.00	0.04	932.15	-0.04	10.00	-0.400	931.75
45+00	932.54	0.40	10.00	0.04	932.14	-0.04	10.00	-0.400	931.74
45+25	932.45	0.32	10.00	0.032	932.13	-0.032	10.00	-0.320	931.81
45+50	932.30	0.19	10.00	0.019	932.11	-0.02	10.00	-0.200	931.91
45+75	932.15	0.05	10.00	0.005	932.10	-0.02	10.00	-0.200	931.90
46+00	932.01	-0.08	10.00	-0.008	932.09	-0.02	10.00	-0.200	931.89

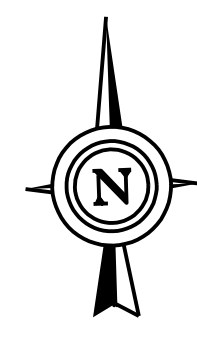


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUPERELEVATION TABLE

SUBMITTED 6/29/2020

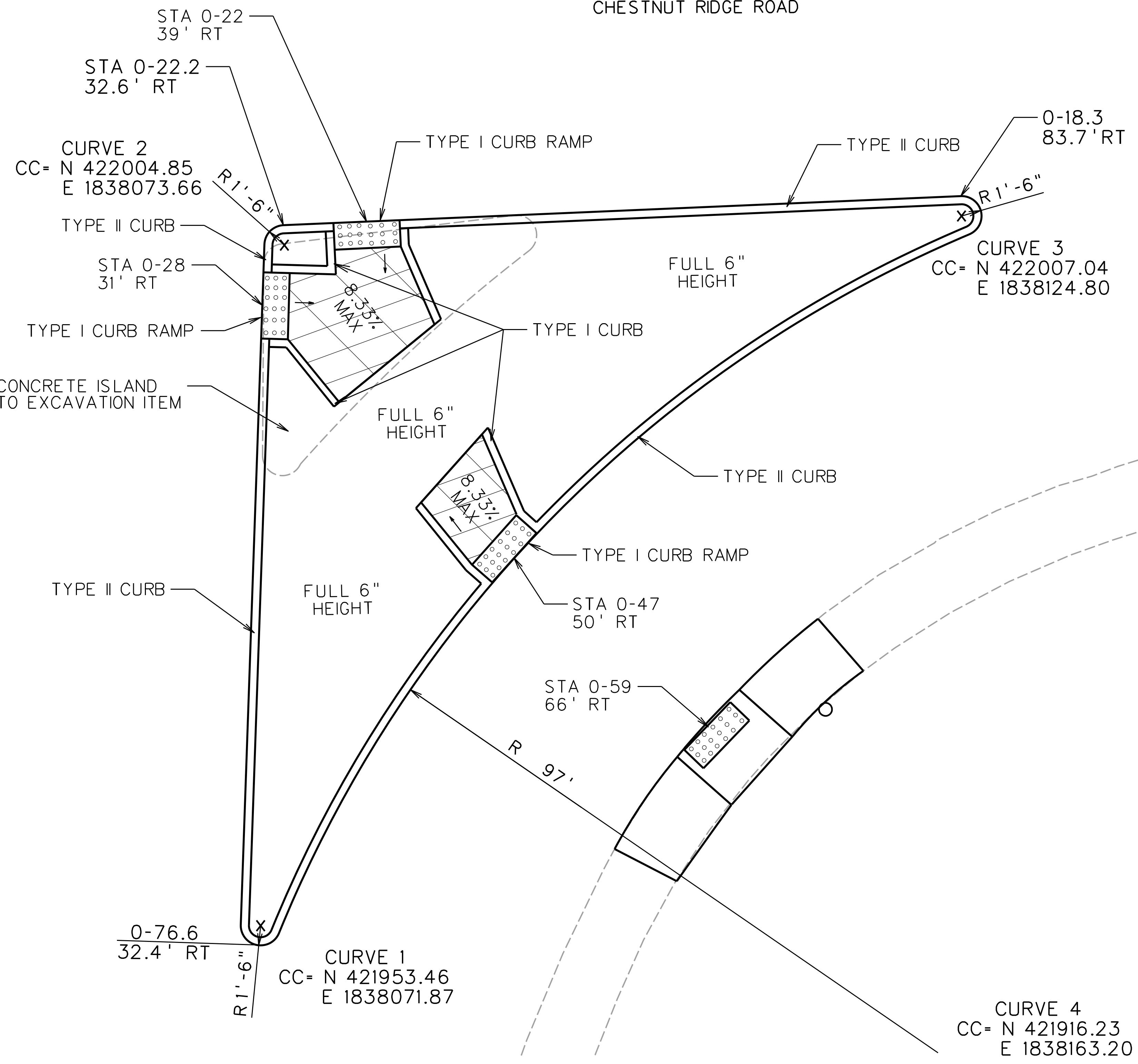
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	25	301



BURROUGHS STREET

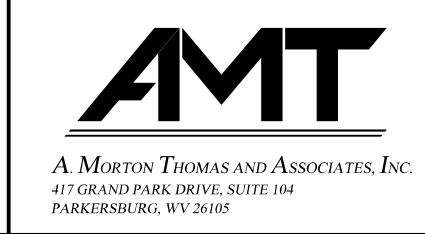
0+00
VAN VOORHIS ROAD

CHESTNUT RIDGE ROAD



REMOVE EXISTING CONCRETE ISLAND
COST INCIDENTAL TO EXCAVATION ITEM
FOR ISLAND.

 RAMP SLOPE 8.33% MAX



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

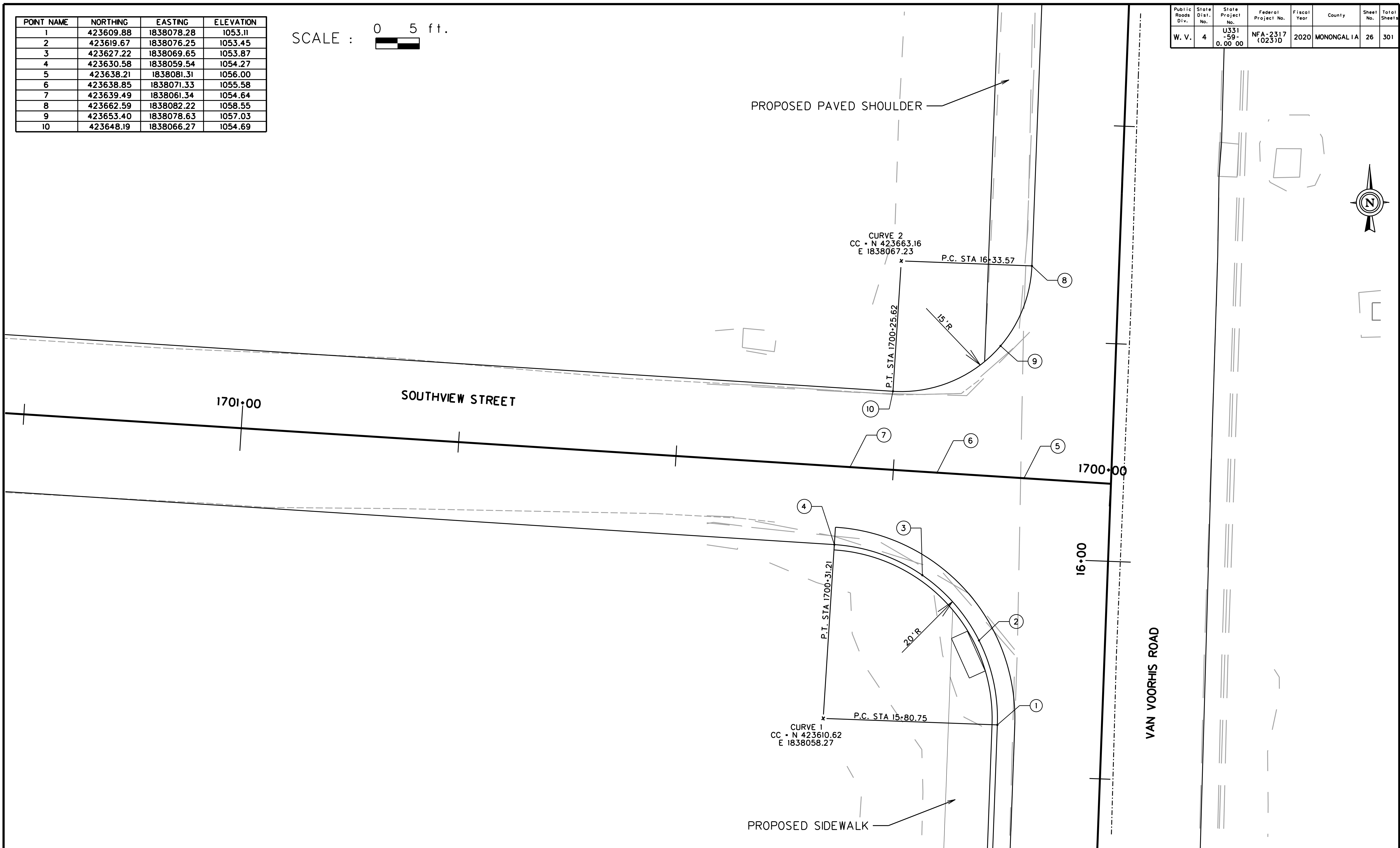
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
CONCRETE ISLAND DETAIL

SUBMITTED 6/29/2020

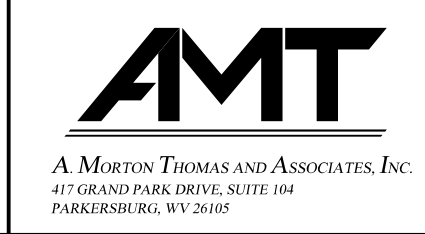
POINT NAME	NORTHING	EASTING	ELEVATION
1	423609.88	1838078.28	1053.11
2	423619.67	1838076.25	1053.45
3	423627.22	1838069.65	1053.87
4	423630.58	1838059.54	1054.27
5	423638.21	1838081.31	1056.00
6	423638.85	1838071.33	1055.58
7	423639.49	1838061.34	1054.64
8	423662.59	1838082.22	1058.55
9	423653.40	1838078.63	1057.03
10	423648.19	1838066.27	1054.69

SCALE : 0 5 ft.

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0237D)	2020	MONONGALIA	26	301



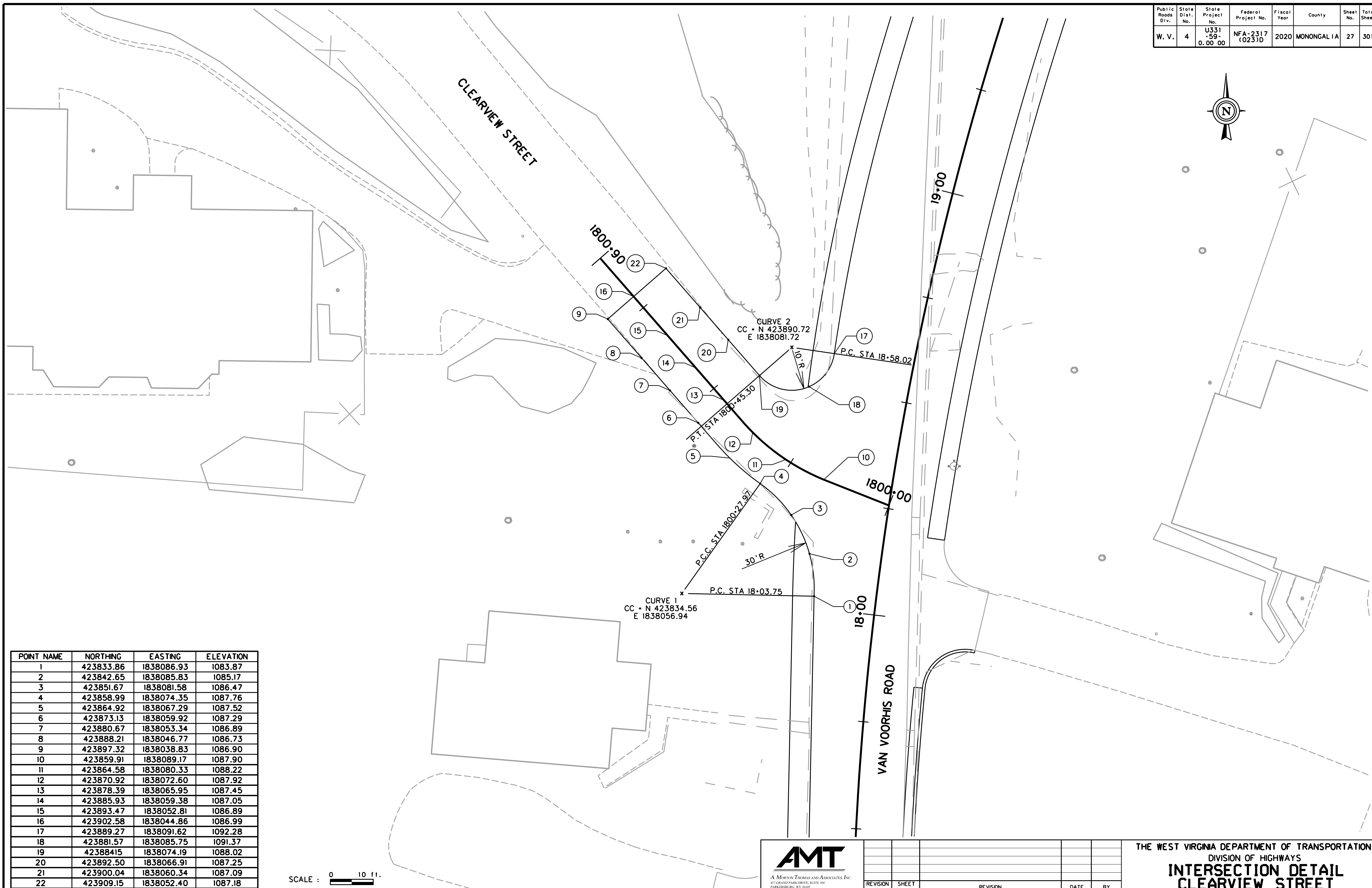
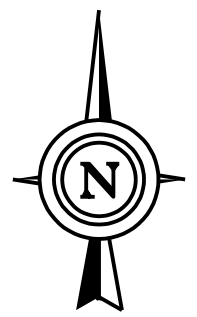
SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

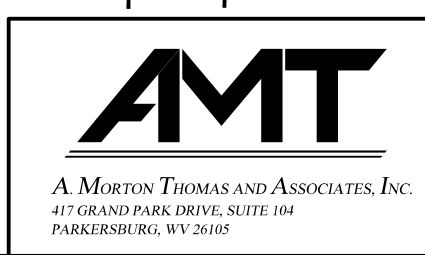
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
INTERSECTION DETAIL
SOUTHVIEW STREET

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	27	301



POINT NAME	NORTHING	EASTING	ELEVATION
1	423833.86	1838086.93	1083.87
2	423842.65	1838085.83	1085.17
3	423851.67	1838081.58	1086.47
4	423858.99	1838074.35	1087.76
5	423864.92	1838067.29	1087.52
6	423873.13	1838059.92	1087.29
7	423880.67	1838053.34	1086.89
8	423888.21	1838046.77	1086.73
9	423897.32	1838038.83	1086.90
10	423859.91	1838089.17	1087.90
11	423864.58	1838080.33	1088.22
12	423870.92	1838072.60	1087.92
13	423878.39	1838065.95	1087.45
14	423885.93	1838059.38	1087.05
15	423893.47	1838052.81	1086.89
16	423902.58	1838044.86	1086.99
17	423889.27	1838091.62	1092.28
18	423881.57	1838085.75	1091.37
19	42388415	1838074.19	1088.02
20	423892.50	1838066.91	1087.25
21	423900.04	1838060.34	1087.09
22	423909.15	1838052.40	1087.18

SCALE : 0 10 ft.



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

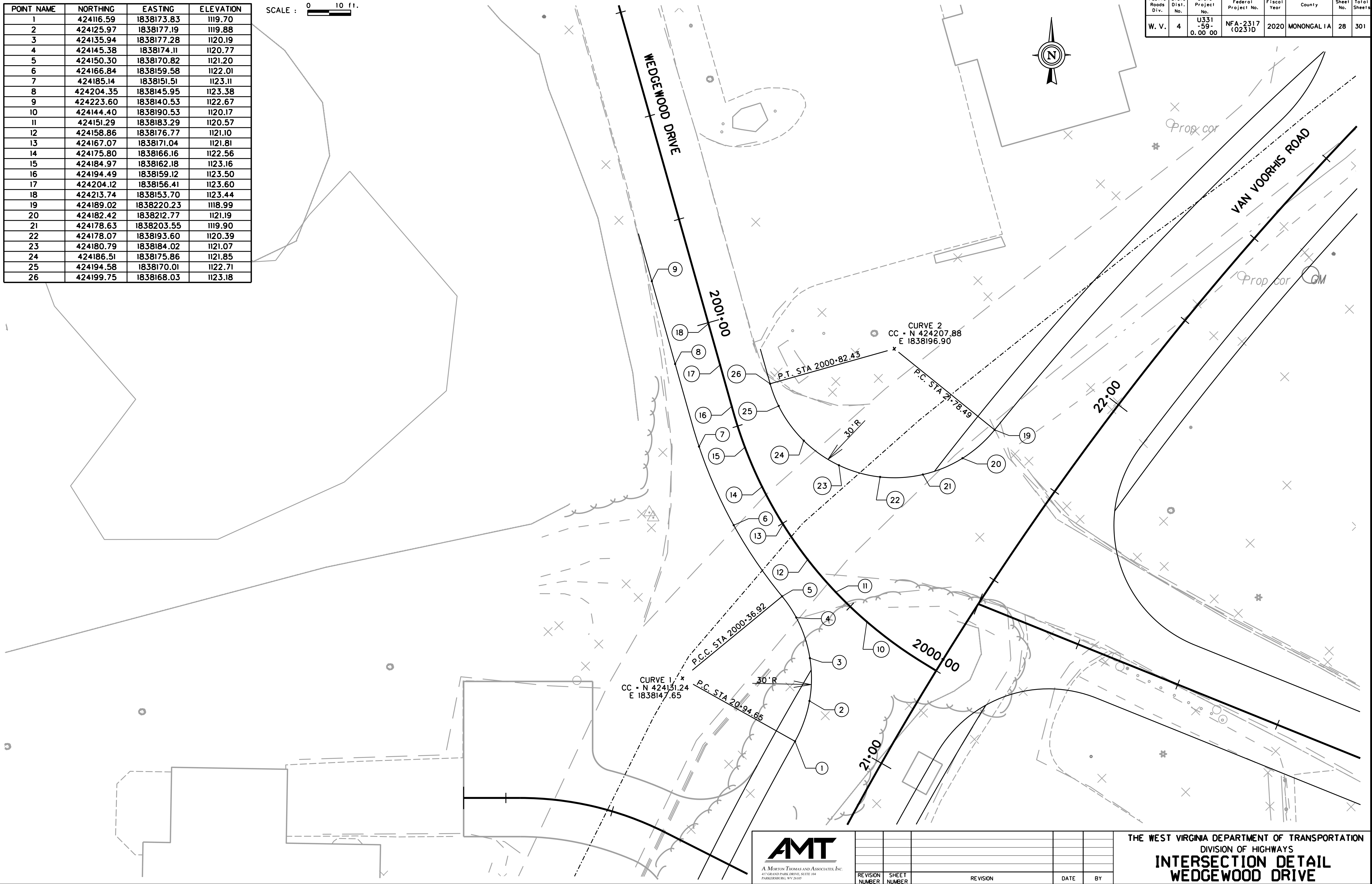
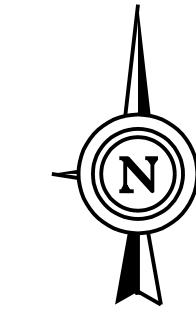
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
INTERSECTION DETAIL
CLEARVIEW STREET

SUBMITTED 6/29/2020

POINT NAME	NORTHING	EASTING	ELEVATION
1	424116.59	1838173.83	1119.70
2	424125.97	1838177.19	1119.88
3	424135.94	1838177.28	1120.19
4	424145.38	1838174.11	1120.77
5	424150.30	1838170.82	1121.20
6	424166.84	1838159.58	1122.01
7	424185.14	1838151.51	1123.11
8	424204.35	1838145.95	1123.38
9	424223.60	1838140.53	1122.67
10	424144.40	1838190.53	1120.17
11	424151.29	1838183.29	1120.57
12	424158.86	1838176.77	1121.10
13	424167.07	1838171.04	1121.81
14	424175.80	1838166.16	1122.56
15	424184.97	1838162.18	1123.16
16	424194.49	1838159.12	1123.50
17	424204.12	1838156.41	1123.60
18	424213.74	1838153.70	1123.44
19	424189.02	1838220.23	1118.99
20	424182.42	1838212.77	1121.19
21	424178.63	1838203.55	1119.90
22	424178.07	1838193.60	1120.39
23	424180.79	1838184.02	1121.07
24	424186.51	1838175.86	1121.85
25	424194.58	1838170.01	1122.71
26	424199.75	1838168.03	1123.18

SCALE : 0 10 ft.

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	28	301



SUBMITTED 6/29/2020

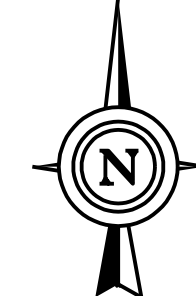


A. MORTON THOMAS AND ASSOCIATES, INC.
417 GRAND PARK DRIVE, SUITE 104
PARKERSBURG, WV 26101

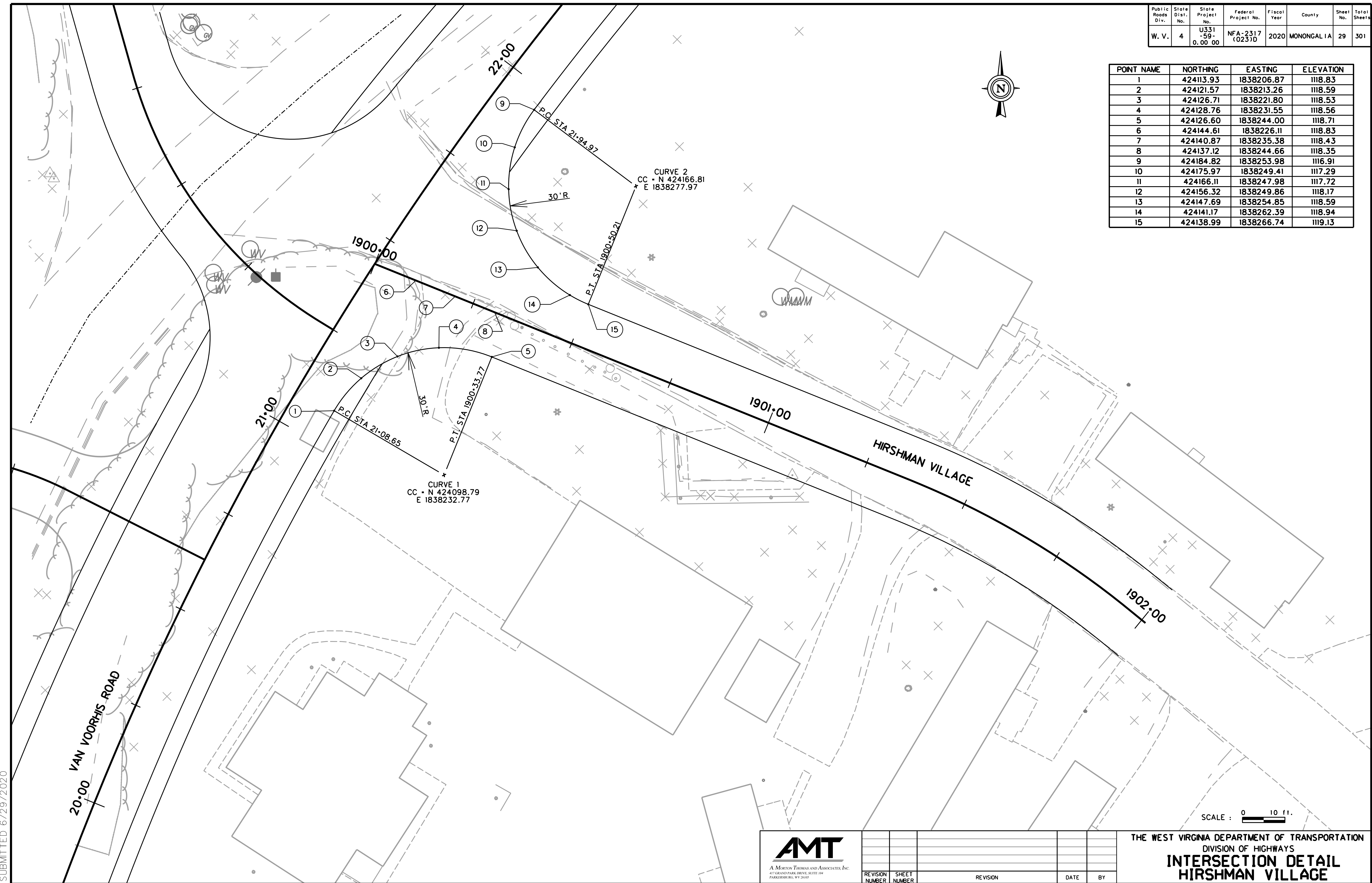
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
INTERSECTION DETAIL
WEDGEWOOD DRIVE

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00-00	NFA-2317 (0231D)	2020	MONONGALIA	29	301

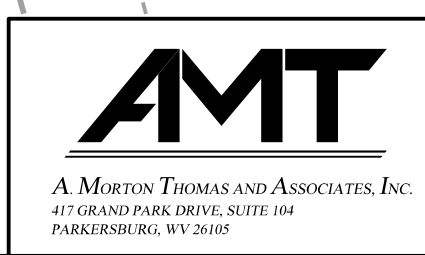


POINT NAME	NORTHING	EASTING	ELEVATION
1	424113.93	1838206.87	1118.83
2	424121.57	1838213.26	1118.59
3	424126.71	1838221.80	1118.53
4	424128.76	1838231.55	1118.56
5	424126.60	1838244.00	1118.71
6	424144.61	1838226.11	1118.83
7	424140.87	1838235.38	1118.43
8	424137.12	1838244.66	1118.35
9	424184.82	1838253.98	1116.91
10	424175.97	1838249.41	1117.29
11	424166.11	1838247.98	1117.72
12	424156.32	1838249.86	1118.17
13	424147.69	1838254.85	1118.59
14	424141.17	1838262.39	1118.94
15	424138.99	1838266.74	1119.13



SUBMITTED 6/29/2020

SCALE : 0 10 ft.

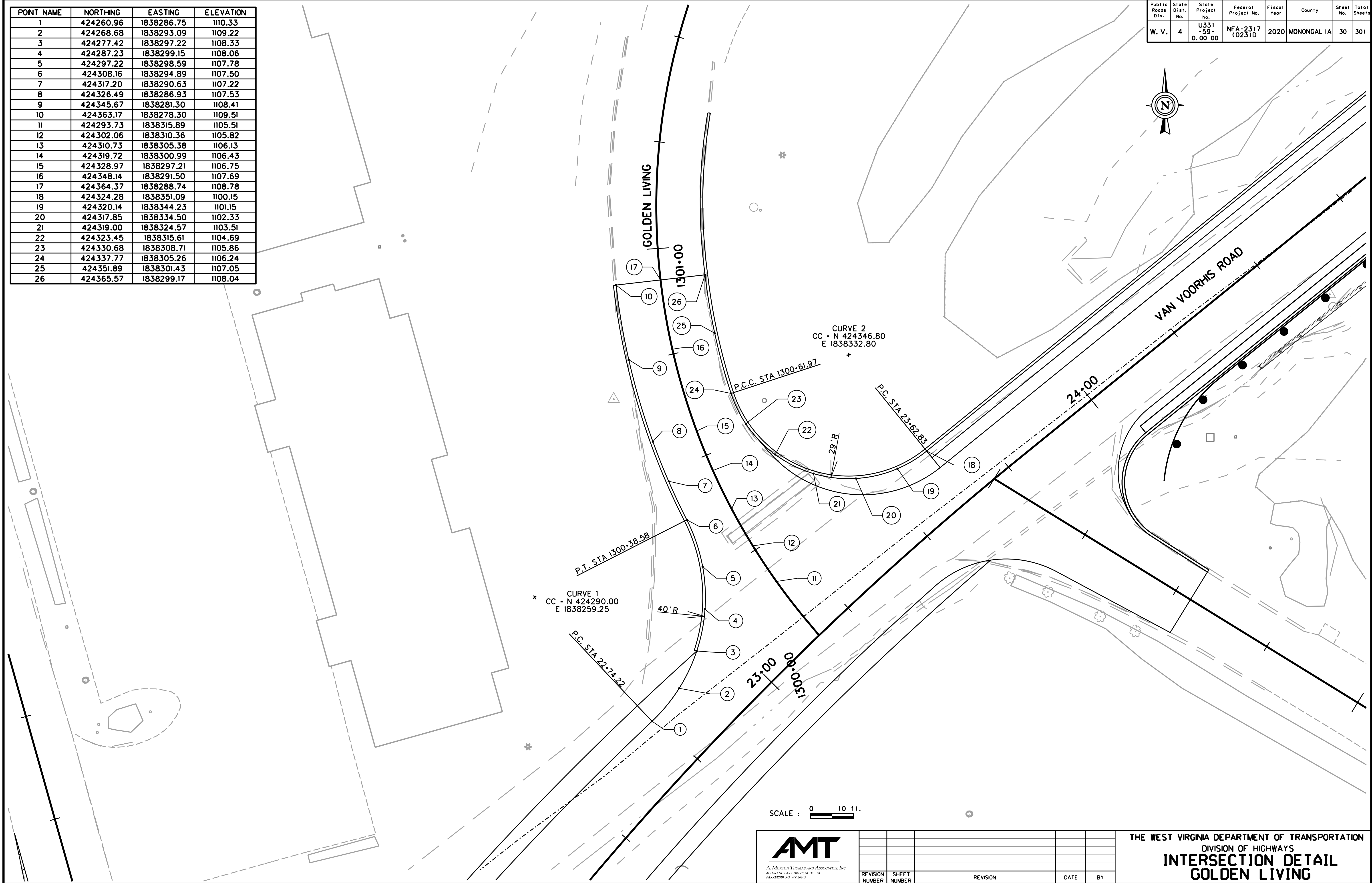
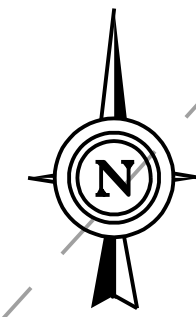


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
INTERSECTION DETAIL
HIRSHMAN VILLAGE

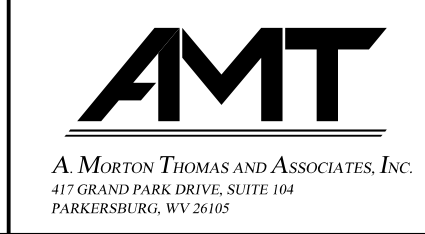
POINT NAME	NORTHING	EASTING	ELEVATION
1	424260.96	1838286.75	1110.33
2	424268.68	1838293.09	1109.22
3	424277.42	1838297.22	1108.33
4	424287.23	1838299.15	1108.06
5	424297.22	1838298.59	1107.78
6	424308.16	1838294.89	1107.50
7	424317.20	1838290.63	1107.22
8	424326.49	1838286.93	1107.53
9	424345.67	1838281.30	1108.41
10	424363.17	1838278.30	1109.51
11	424293.73	1838315.89	1105.51
12	424302.06	1838310.36	1105.82
13	424310.73	1838305.38	1106.13
14	424319.72	1838300.99	1106.43
15	424328.97	1838297.21	1106.75
16	424348.14	1838291.50	1107.69
17	424364.37	1838288.74	1108.78
18	424324.28	1838351.09	1100.15
19	424320.14	1838344.23	1101.15
20	424317.85	1838334.50	1102.33
21	424319.00	1838324.57	1103.51
22	424323.45	1838315.61	1104.69
23	424330.68	1838308.71	1105.86
24	424337.77	1838305.26	1106.24
25	424351.89	1838301.43	1107.05
26	424365.57	1838299.17	1108.04

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00-00	NFA-2317 (0237D)	2020	MONONGALIA	30	301



SUBMITTED 6/29/2020

SCALE : 0 10 ft.



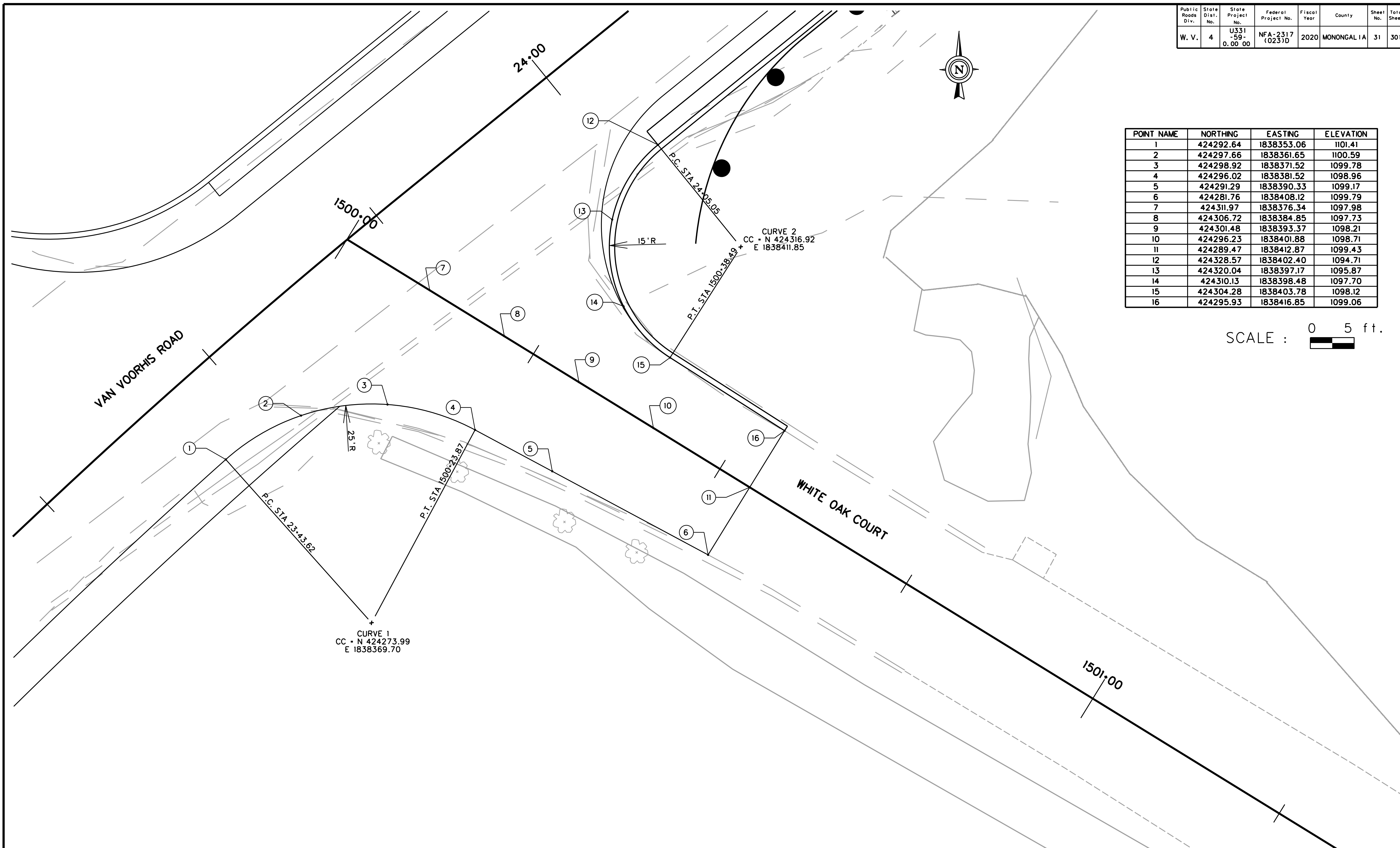
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
INTERSECTION DETAIL
GOLDEN LIVING

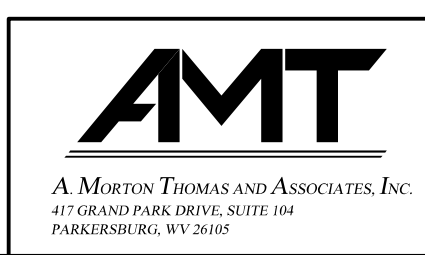
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	31	301

POINT NAME	NORTHING	EASTING	ELEVATION
1	424292.64	1838353.06	1101.41
2	424297.66	1838361.65	1100.59
3	424298.92	1838371.52	1099.78
4	424296.02	1838381.52	1098.96
5	424291.29	1838390.33	1099.17
6	424281.76	1838408.12	1099.79
7	424311.97	1838376.34	1097.98
8	424306.72	1838384.85	1097.73
9	424301.48	1838393.37	1098.21
10	424296.23	1838401.88	1098.71
11	424289.47	1838412.87	1099.43
12	424328.57	1838402.40	1094.71
13	424320.04	1838397.17	1095.87
14	424310.13	1838398.48	1097.70
15	424304.28	1838403.78	1098.12
16	424295.93	1838416.85	1099.06

SCALE : 0 5 ft.



SUBMITTED 6/29/2020



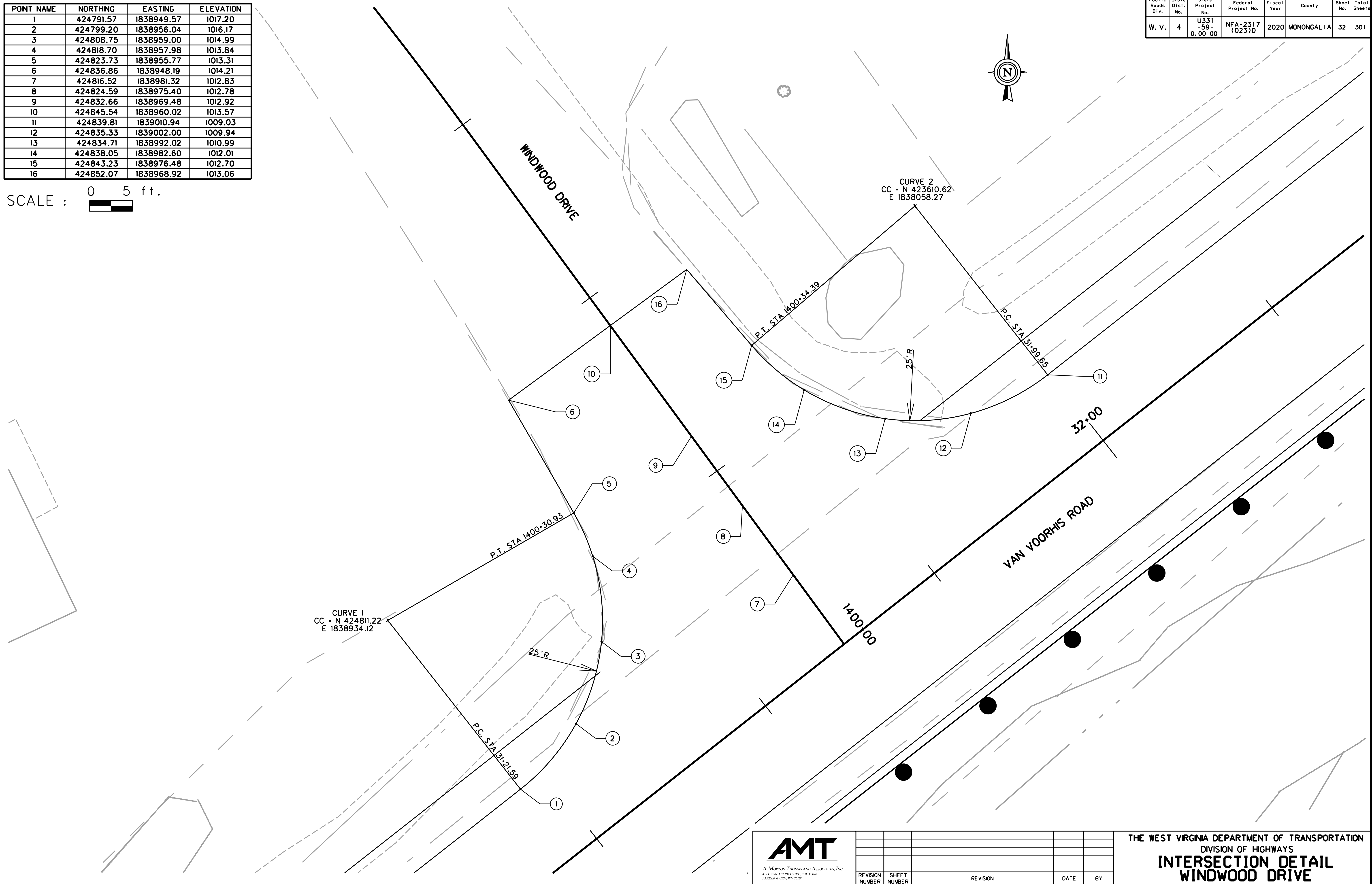
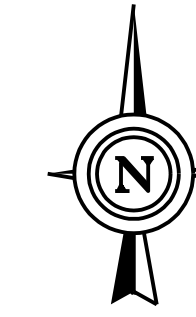
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
INTERSECTION DETAIL
WHITE OAK COURT

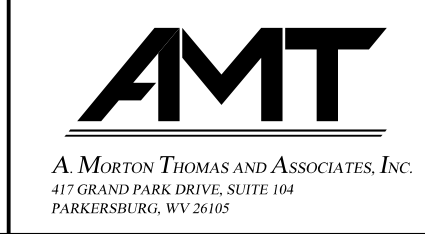
POINT NAME	NORTHING	EASTING	ELEVATION
1	424791.57	1838949.57	1017.20
2	424799.20	1838956.04	1016.17
3	424808.75	1838959.00	1014.99
4	424818.70	1838957.98	1013.84
5	424823.73	1838955.77	1013.31
6	424836.86	1838948.19	1014.21
7	424816.52	1838981.32	1012.83
8	424824.59	1838975.40	1012.78
9	424832.66	1838969.48	1012.92
10	424845.54	1838960.02	1013.57
11	424839.81	1839010.94	1009.03
12	424835.33	1839002.00	1009.94
13	424834.71	1838992.02	1010.99
14	424838.05	1838982.60	1012.01
15	424843.23	1838976.48	1012.70
16	424852.07	1838968.92	1013.06

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	32	301

SCALE : 0 5 ft.



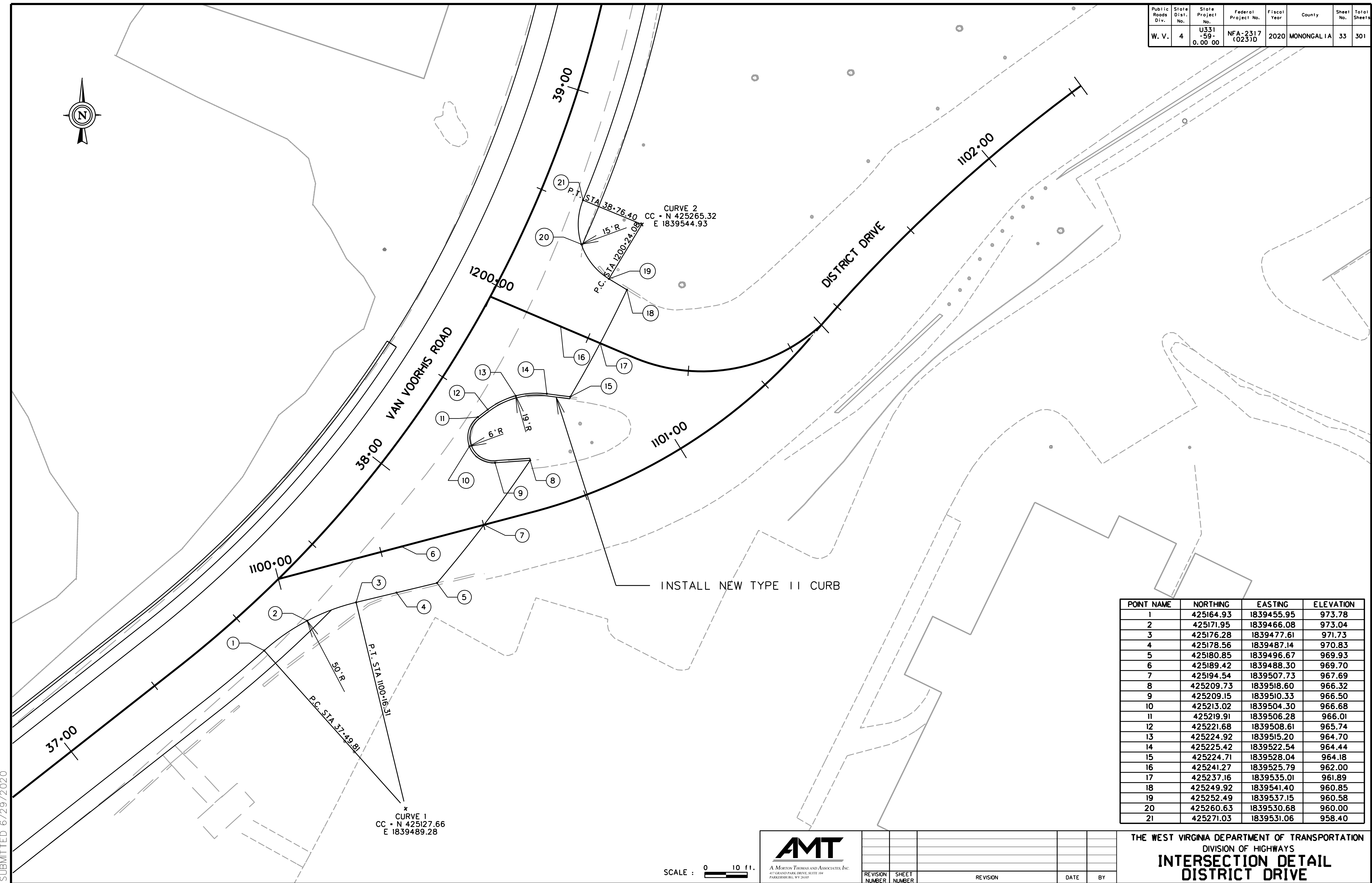
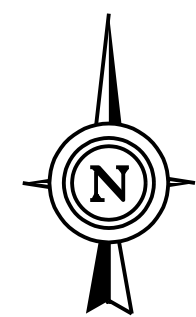
SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
INTERSECTION DETAIL
WINDWOOD DRIVE

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0237D)	2020	MONONGALIA	33	301



*
 CURVE 1
 CC = N 425127.66
 E 1839489.28

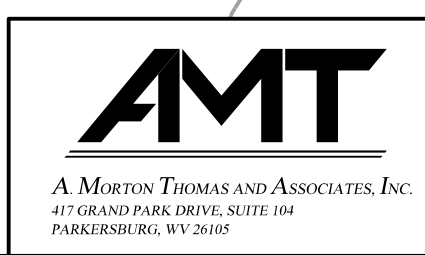
CURVE 2
 CC = N 425265.32
 E 1839544.93

INSTALL NEW TYPE 11 CURB

POINT NAME	NORTHING	EASTING	ELEVATION
1	425164.93	1839455.95	973.78
2	425171.95	1839466.08	973.04
3	425176.28	1839477.61	971.73
4	425178.56	1839487.14	970.83
5	425180.85	1839496.67	969.93
6	425189.42	1839488.30	969.70
7	425194.54	1839507.73	967.69
8	425209.73	1839518.60	966.32
9	425209.15	1839510.33	966.50
10	425213.02	1839504.30	966.68
11	425219.91	1839506.28	966.01
12	425221.68	1839508.61	965.74
13	425224.92	1839515.20	964.70
14	425225.42	1839522.54	964.44
15	425224.71	1839528.04	964.18
16	425241.27	1839525.79	962.00
17	425237.16	1839535.01	961.89
18	425249.92	1839541.40	960.85
19	425252.49	1839537.15	960.58
20	425260.63	1839530.68	960.00
21	425271.03	1839531.06	958.40

SUBMITTED 6/29/2020

SCALE : 0 10 ft.



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
INTERSECTION DETAIL
DISTRICT DRIVE

TEMPORARY TRAFFIC CONTROL NOTES

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0237D)	2020	MONONGALIA	34	301

- TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH SECTION 636 OF THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS STANDARD SPECIFICATIONS ROADS AND BRIDGES, ADOPTED 2017, AND SUPPLEMENTAL SPECIFICATIONS DATED JANUARY 1, 2020 SHALL APPLY TO THIS PROJECT. THE CONTRACT DOCUMENTS AND THE CONTRACT PLANS ARE THE GOVERNING PROVISIONS APPLICABLE TO THIS PROJECT, AND THE MANUAL ON TEMPORARY TRAFFIC CONTROL FOR STREETS AND HIGHWAYS, 2006 EDITION, WHICH IS MADE A PART OF THIS CONTRACT AND THE TRAFFIC PLAN FOR THE INDIVIDUAL SEGMENTS AS DESCRIBED BELOW.
- REFLECTIVE SHEETING ON TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE OF NEW CONDITION AT THE BEGINNING OF THE PROJECT LIFE. NIGHT VISIBILITY AND LEGIBILITY SHALL BE MAINTAINED.
- ELECTRIC ARROW PANELS SHALL HAVE A MINIMUM OF 1000 FEET OF SIGHT DISTANCE.
- TEMPORARY TAPE: ANY TEMPORARY TAPE SHALL BE TYPE VII-B AND MECHANICALLY APPLIED. SOLID LINES SHALL HAVE A 2 FT GAP EVERY 50 FT.
- THE CONTRACTOR SHALL INSTALL TEMPORARY PAINT FOR LANE LINES AND EDGE LINES ON COMPLETED TRAVEL LANES THAT ARE OPENED MORE THAN 24 HOURS PRIOR TO APPLYING THE FINAL PAVEMENT MARKINGS.
- LOCATIONS OF ALL TRAFFIC CONTROL DEVICES SHOWN ON THE TEMPORARY TRAFFIC CONTROL PLAN ARE APPROXIMATE. FINAL LOCATION OF THE TRAFFIC CONTROL DEVICES ARE TO BE ESTABLISHED IN THE FIELD BY THE ENGINEER.
- TRAFFIC DIRECTOR: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HIRE A LAW ENFORCEMENT OFFICER AND A CAR WITH BLUE FLASHING LIGHTS TO BE PRESENT WHEN WORKERS ARE PRESENT DURING ANY LANE CLOSURES OR BRIDGE WORK AS DETERMINED BY THE ENGINEER. THESE COSTS SHALL BE PAID FOR AS PART OF ITEM 636014-002.
- ANY EXISTING SIGN OR DELINEATOR RELOCATED, REMOVED OR DAMAGED BY THE CONTRACTOR SHALL BE REPLACED TO ITS ORIGINAL CONDITION BY THE CONTRACTOR AT HIS EXPENSE AS PART OF ITEM 636011-001.
- WHEN COVERING EXISTING SIGNS, THE CONTRACTOR HAS THE OPTIONS OF USING
 - THIN WOOD OVERLAY (E.G. PLYWOOD)
 - HEAVY DUTY BLACK OVERLAY (PLASTIC OR BURLAP TAPE)
 - TAKING SIGNS DOWN AND REINSTALLING WHEN APPROPRIATE
 ANY DAMAGES CAUSED BY ABOVE NAMED SHALL BE REPAIRED/REPLACED TO ORIGINAL CONDITIONS AT CONTRACTORS EXPENSE. ALL ABOVE OPERATIONS SHALL HAVE 100% SIGN COVERAGE AND BE BID INCIDENTAL TO ITEM 636011-001.
- THE CONTRACTOR SHALL RELOCATE, TEMPORARILY COVER AND/OR TAKE DOWN ROUTE MARKERS AND OTHER SIGNS AS APPROPRIATE IN ORDER TO CONTINUE THE INTEGRITY OF THE VARIOUS PHASES OF THE TRAFFIC CONTROL PLAN, AND ANY SUCH WORK REQUIRED FOR SUCH SHALL BE INCIDENTAL TO ITEM 636011-001.
- THE LOCATIONS OF MAJOR IMPROVEMENTS INDICATED WITHIN THE TEMPORARY TRAFFIC CONTROL PLAN ARE APPROXIMATE. FOR EXACT LOCATIONS, SEE THE PLAN SHEETS.
- WORK ZONE SPEED LIMIT SIGNS SHALL BE INSTALLED AS SHOWN IN THE PLANS WITH A SINGLE ASSEMBLY PER DIRECTION INSTALLED IN ADVANCE OF THE WORK AREA. WORK ZONE SPEED LIMIT ASSEMBLIES INCLUDE THE WORK ZONE SPEED LIMIT SIGNS (R2-1M MODIFIED) WITH THE MESSAGE "WORK ZONE SPEED LIMIT 25 MPH WHEN FLASHING" AND IS ACTIVATED BY TWO TYPE "B" LIGHTS. WORK ZONE SPEED LIMITS SHALL BE MADE EFFECTIVE WHEN ONE OF THE FOLLOWING CONDITIONS EXISTS AND THE ATTACHED FLASHERS ARE ACTIVATED:
 - A TRAVEL LANE IS CLOSED, OR
 - A TRAVEL LANE WIDTH IS PHYSICALLY REDUCED (EXAMPLE: WHEN DRUMS, CONES, BARRICADES, OR TEMPORARY BARRIER IS LESS THAN 2 FEET FROM THE TRAVELED WAY), OR
 - THERE IS A DETOUR OF A TRAVEL LANE (EXAMPLE: LANE SHIFT, CROSSOVER)
- WINTER SHUTDOWN (AS NECESSARY) - CONTRACTOR SHALL PROVIDE THE DIVISION WITH A SCHEME THAT ENSURES THAT ALL LANES, SHOULDERS, SIDE ROADS, ETC. ARE FREE FLOWING AND NONRESTRICTED, EASILY TRAVERSABLE AND ALLOW SAFE TRAVEL. SUCH A SCHEME SHALL BE APPROVED IN WRITING BY THE ENGINEER. ANY TEMPORARY TRAFFIC CONTROL DEVICES UTILIZED DURING THE WINTER SHUTDOWN SHALL BE APPROVED BY THE DIVISION. CONTRACTOR IS RESPONSIBLE FOR "TAKE DOWN" OR "COVERING" ANY MAINTENANCE OF TRAFFIC DEVICES NOT UTILIZED. ALL DEVICES (SIGNS, BARRICADES, GUARDRAIL, TEMPORARY BARRIER, ETC.) AND PAVEMENT MARKINGS SHALL BE IN PLACE BEFORE WINTER SHUTDOWN AND MAINTAINED DURING THE WINTER SHUTDOWN BY THE CONTRACTOR. COSTS OF IMPLEMENTING THE WINTER SHUTDOWN SHALL BE BID INCIDENTAL TO ITEM 636011-001.
- NOTICE TO CONTRACTORS: IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE TRAFFIC CONTROL WITH ANY ADJACENT CONSTRUCTION OR MAINTENANCE PROJECTS. IT IS THE CONTRACTORS RESPONSIBILITY TO DEVELOP A PLAN TO ENSURE THAT TRAFFIC CONTROL BETWEEN VARIOUS PROJECTS DOES NOT CREATE A CONFLICT FOR THE PUBLIC. THE PLAN OF COORDINATION SHALL BE PRESENTED TO THE ENGINEER IN WRITING FOR APPROVAL.
- TYPE "B" WARNING LIGHTS SHALL BE USED ON LEAD-IN SIGNS IN THE ADVANCE WARNING AREA FOR THIS PROJECT. THEY SHALL BE BID AS ITEM NUMBER 636025-001, WARNING LIGHTS, TYPE "B".

- USE "BUMP" AND "UNEVEN LANES" SIGNS AS NECESSARY. USE "LOW SHOULDER" SIGNS AT APPROXIMATELY 500 FT SPACING WHEN DIFFERENCE IN ELEVATION IS UP TO 2 INCHES. IF THE ELEVATION DIFFERENCE IS GREATER THAN 2 INCHES, USE DRUMS AT 50 FT SPACING AND "SHOULDER DROP OFF" SIGNS AT APPROXIMATELY 500 FT SPACING.
- NOTICE TO MEDIA: AT LEAST ONE WEEK PRIOR TO COMMENCING WORK AND BEFORE CHANGE PHASES (OR SUB PHASE), THE CONTRACTOR SHALL COORDINATE SUCH WITH THE DIVISION OF HIGHWAYS SO THAT TRAFFIC INFORMATION CAN BE DISSEMINATED TO LOCAL MEDIA, EMERGENCY SERVICES, AND SCHOOLS.
- ACCESS TO ALL HOUSES AND BUSINESSES SHALL BE MAINTAINED AT ALL TIMES.
- ALL DROP OFF LOCATIONS NOT PROTECTED BY TEMPORARY BARRIER MUST BE BROUGHT TO A MAXIMUM OF 3" DIFFERENTIAL WITH 48 HRS.
- LANE CLOSURES WILL NOT BE PERMITTED ON CR 59 FROM WV 705 TO SOUTHVIEW STREET FROM 6AM TO 8 PM.
- IN ADDITION TO WORK RESTRICTIONS REQUIRED AS PER SECTION 105 OF THE 2017 WVDOT STANDARD SPECIFICATIONS, ROADS AND BRIDGES, AND ELSEWHERE IN THE PLANS, LANE AND/OR SHOULDER CLOSURES SHALL NOT BE PERMITTED DURING THE FOLLOWING EVENTS:

WVU HOME FOOTBALL GAMES CAN BE FOUND AT

WVU GRADUATION DATES CAN BE FOUND AT

WVU MOVE IN/OUT DATES CAN BE FOUND AT

<https://wvusports.com/schedule.aspx?path=football>

<http://catalog.wvu.edu/undergraduate/westvirginiauniversitycalendar/>

<https://housing.wvu.edu/current-residents/residence-hall-current-residents/opening-and-closing-dates>

STANDARD DETAILS VOLUMES I AND II

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, STANDARD DETAILS BOOK, VOLUME I, DATED MAY 2016, & VOLUME II, DATED JANUARY 1, 2019, SHALL APPLY TO THIS PROJECT.

SEQUENCE OF CONSTRUCTION

PHASE 1

ADVANCE WARNING DEVICES ARE IMPLEMENTED. TEMPORARY PAVEMENT IS INSTALLED TO ACCOMMODATE CONSTRUCTION IN SUBSEQUENT PHASES, FROM STA. 18+50 TO STA. 22+90 ALONG VAN VOORHIS ROAD, ALONG THE SOUTH SIDE OF THE WEDGEWOOD DRIVE APPROACH, AND ALONG THE NORTH SIDE OF THE HIRSHMAN VILLAGE APPROACH. TEMPORARY STONE IS INSTALLED TO ACCOMMODATE CONSTRUCTION IN SUBSEQUENT PHASES, ALONG THE NORTH SIDE OF THE HIRSHMAN VILLAGE APPROACH AT STA. 21+75, AND ALONG THE NORTH SIDE OF THE GOLDEN LIVING APPROACH AT STA. 23+50.

WIDENING AND RELATED WORK ALONG THE WEST SIDE OF VAN VOORHIS ROAD, FROM STA. 18+50 TO STA. 38+75, IS CONSTRUCTED, WHILE MAINTAINING TWO-LANE, TWO-WAY TRAFFIC. IF THE CONTRACTOR IS UNABLE TO PERFORM THIS WORK WITH TWO LANES OPEN, WORK SHALL BE DONE UNDER A LANE CLOSURE DURING SPECIFIED OFF-PEAK HOURS.

CROSS PIPES ON VAN VOORHIS ROAD, WITHIN THE SECTION FROM STA. 17+50 TO STA. 37+25, ARE INSTALLED AT THIS TIME.

THE SOIL NAIL RETAINING WALL TO BE INSTALLED ALONG THE WEST SIDE OF VAN VOORHIS ROAD, FROM STA. 27+40 TO STA. 28+10, WILL BE INSTALLED AT THIS TIME.

ONE-LANE TRAFFIC CONTROL FOR CROSS PIPE AND SOIL NAIL INSTALLATION WILL BE PERMITTED DURING SPECIFIED OFF-PEAK HOURS.

THE TWO LANE TEMPORARY BRIDGE OVER WEST RUN IS CONSTRUCTED ALONG WITH APPROACHES. TIE IN WORK FOR THE TEMPORARY BRIDGE APPROACHES IS CONSTRUCTED USING SHORT-TERM, ONE LANE TRAFFIC CONTROL. THIS WORK SHALL BEGIN DURING OFF PEAK HOURS AND CONTINUE IN A NON-STOP OPERATION UNTIL COMPLETION. THIS WORK OPERATION SHALL BE LIMITED TO THE SEASON BEGINNING AT THE END OF WVU'S SPRING SEMESTER AND ENDING AT THE BEGINNING OF THE FALL SEMESTER. ADDITIONALLY, EACH SESSION OF THE CONTINUOUS WORK OPERATION SHALL BE LIMITED TO A 72-HOUR DURATION.

PHASE 2

THE HORIZONTAL AND VERTICAL CURVE IMPROVEMENT OF VAN VOORHIS ROAD IS STARTED IN THE WEDGEWOOD DRIVE AREA, FROM STA. 18+50 TO STA. 23+00. TRAFFIC ON HIRSHMAN VILLAGE IS ROUTED TO THE TEMPORARY PAVEMENT ON THE NORTH SIDE OF THE APPROACH.

THE VAN VOORHIS ROAD GEOMETRIC IMPROVEMENT IS CONSTRUCTED TO THE NORTH AND SOUTH OF THE TEMPORARY HIRSHMAN APPROACH, WITH HIRSHMAN VILLAGE CONTINUING TO MAINTAIN ACCESS TO EXISTING VAN VOORHIS ROAD.

CONSTRUCTION OF THE RELOCATED, PERMANENT HIRSHMAN VILLAGE APPROACH IS PERFORMED IN THE AREA SOUTH OF THE EXISTING HIRSHMAN ALIGNMENT, WHILE HIRSHMAN TRAFFIC IS MAINTAINED ON THE TEMPORARY GRAVEL SECTION TO THE NORTH.

THE WORK ALONG THE EAST SIDE OF VAN VOORHIS ROAD, FROM STA. 23+50 TO STA. 37+50, IS CONSTRUCTED, INCLUDING THE PILING WALL FROM STA. 24+35.7 TO STA. 27+29.8.

CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN BEGINS.

PHASE 3

TIE-IN WORK FOR THE GEOMETRIC IMPROVEMENT ON VAN VOORHIS ROAD, IN THE AREAS SURROUNDING STA. 18+50 AND STA. 23+00, AND TIE-IN WORK FOR THE RELOCATED HIRSHMAN VILLAGE APPROACH, FROM STA. 1900+75 TO STA. 1901+75, OCCURS USING SHORT-TERM ONE LANE TRAFFIC CONTROL. THIS WORK WILL TAKE PLACE ON ONE HALF OF THE ROAD WIDTH AT A TIME, AS SHOWN IN SUB-PHASES 3A THROUGH 3C. THIS WORK SHALL BEGIN DURING OFF PEAK HOURS AND CONTINUE IN A NON-STOP OPERATION UNTIL COMPLETION. THIS WORK OPERATION SHALL BE LIMITED TO THE SEASON BEGINNING AT THE END OF WVU'S SPRING SEMESTER AND ENDING AT THE BEGINNING OF THE FALL SEMESTER. ADDITIONALLY EACH SESSION OF THE CONTINUOUS WORK OPERATION SHALL BE LIMITED TO A 72-HOUR DURATION.

CONSTRUCTION OF THE VAN VOORHIS ROAD GEOMETRIC IMPROVEMENT, IN THE AREA OCCUPIED BY THE TEMPORARY HIRSHMAN ALIGNMENT, IS PERFORMED IN SUB-PHASE 3B. HIRSHMAN TRAFFIC WILL BE TRANSFERRED ONTO THE RELOCATED PERMANENT HIRSHMAN VILLAGE APPROACH TO THE SOUTH, WHICH TIES INTO THE NEW VAN VOORHIS ROAD ALIGNMENT. THE TEMPORARY HIRSHMAN VILLAGE APPROACH IS REMOVED AT THIS TIME.

CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN CONTINUES.

PHASE 4

LANE ADDITION, WIDENING, DRAINAGE, CURB AND SIDEWALK INSTALLATION LT OF CL FROM WV 705 TO STA. 18+58 IS CONSTRUCTED UNDER LANE CLOSURE DURING SPECIFIED OFF-PEAK NIGHTTIME HOURS. FLAGGING NEEDS WILL VARY DEPENDING ON LENGTH AND LOCATION OF CLOSURE. PORTIONS OF THIS WORK THAT CAN OCCUR WITHOUT LANE CLOSURE MAY BE PERFORMED DURING DAYTIME HOURS.

THE NEW WEDGEWOOD DRIVE APPROACH ONTO VAN VOORHIS ROAD IS CONSTRUCTED HALF AT A TIME, DURING SUB-PHASES 4A AND 4B.

REMOVAL OF EXISTING AND TEMPORARY PAVEMENT, LEFT OF CENTERLINE FROM STA. 18+50 TO STA. 22+88, OCCURS AT THIS TIME.

THE RECONSTRUCTION AND RELOCATION OF THE RESIDENTIAL APPROACH, LEFT OF CENTERLINE AT STA. 20+63, OCCURS AT THIS TIME, WHILE MAINTAINING CONTINUOUS ACCESS TO THE RESIDENCE.

THE OVERHEAD SIGN STRUCTURE AT STA. 3+22 IS CONSTRUCTED.

TRAFFIC SIGNAL WORK AT THE WV 705 INTERSECTION OCCURS.

CONCRETE ISLAND, SIDEWALK AND ADA RAMP WORK OCCURS AT THE INTERSECTION OF VAN VOORHIS ROAD AND WV 705.

THE OVERHEAD SIGNS ARE INSTALLED AT THIS INTERSECTION AND SOUTH OF WV 705.

CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN CONTINUES.

PHASE 5

CONSTRUCT FULL DEPTH BRIDGE APPROACH RECONSTRUCTION, FROM APPROXIMATELY STA. 38+75 TO STA. 40+35, AND APPROXIMATELY STA. 43+00 TO STA. 44+50, DURING SUB-PHASES 5A AND 5B. WORK WILL BE PERFORMED UTILIZING ONE LANE TRAFFIC CONTROL. THIS WORK SHALL BEGIN DURING OFF-PEAK HOURS AND CONTINUE IN A NON-STOP OPERATION UNTIL COMPLETION. THIS WORK OPERATION SHALL BE LIMITED TO THE SEASON BEGINNING AT THE END OF WVU'S SPRING SEMESTER AND ENDING AT THE BEGINNING OF THE FALL SEMESTER. ADDITIONALLY EACH SESSION OF THE CONTINUOUS WORK OPERATION SHALL BE LIMITED TO A 72 HOUR DURATION.

THE TEMPORARY BRIDGE AND DETOUR ARE REMOVED.

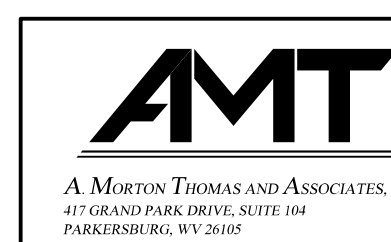
PHASE 6

DRAINAGE INFRASTRUCTURE IS CONSTRUCTED NORTH OF THE NEW BRIDGE, FROM STA. 42+05 TO STA. 43+85, IN SUB-PHASES 6A AND 6B. ONE LANE TRAFFIC CONTROL WILL BE REQUIRED, WITH CLOSURES LIMITED TO OFF PEAK HOURS.

PHASE 7

INSTALLATION OF THE FINAL WEARING COURSE, PAVEMENT MARKINGS, PERMANENT SIGNING, AND GUARDRAIL THROUGHOUT THE PROJECT. LANE CLOSURES WILL BE CONFINED TO ALLOWABLE OFF PEAK TIME FRAMES SPECIFIED.

SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL NOTES

TTCPN-1

TRAFFIC CONTROL DEVICE QUANTITIES

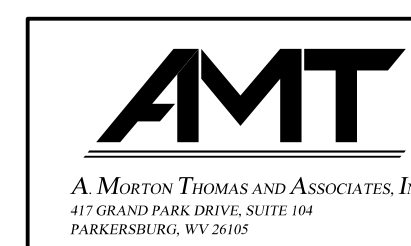
DEVICE	DESCRIPTION	VALUE IN UNITS	QUANTITY	TOTAL UNITS
* 1	SIGNS ON PORTABLE MOUNTS AND BARRICADES. (Total Sign Area 16 S.F. or Greater.)	170	9	1530
* 2	SIGNS ON PORTABLE MOUNTS AND BARRICADES. (Total Sign Area Less Than 16 S.F.)	80	14	1120
* 3	SIGNS ON PERMANENT POSTS. (Total Sign Area 16 S.F. or Greater.)	180	20	3600
* 4	SIGNS ON PERMANENT POSTS. (Total Sign Area Less Than 16 S.F.)	90	43	3870
** 5	BARRICADES - Type I	35		
** 6	BARRICADES - Type II	60		
** 7	BARRICADES - Type III	90	18	1620
** 8	DRUMS	60		
9	CONES	5		
10	VERTICAL PANELS OR GROUND MOUNTED DELINEATORS.	10		
11	BARRIERS OR GUARDRAIL MOUNTED (To Be Bid Incidental To The Cost of The Barrier or Guardrail.)			
12	TEMPORARY OVERLAYS AND TEMPORARY OVERSIZE SIGNS	300		
13	CHANNELIZER CONES	40	365	14,600
<p>* - ORANGE SIGN SHEETING TO BE RETROREFLECTIVE FLUORESCENT. WVDOT APPROVED TYPE ASTM-VI MATERIAL SHALL BE USED FOR ROLL-UP SIGNS. WVDOT APPROVED TYPE ASTM-IX OR ASTM-XI SHALL BE USED FOR RIGID SIGNS.</p> <p>** - BARRICADES AND DRUM SHEETING TO BE 6" WVDOT APPROVED TYPE ASTM-IV MATERIAL</p>			TOTAL	26,340

MAINTENANCE OF TRAFFIC SUMMARY

ITEM NO.	DESCRIPTION	QUANTITY	
		UNIT	TOTAL
636002-001	AGGREGATE FOR MAINTAINING TRAFFIC, STONE OR GRAVEL	TN	800
636007-001	ERADICATION OF PAVEMENT MARKING	LF	
636008-002	TEMPORARY PAVEMENT MARKING - PAINT 6 IN	LF	
636009-002	TEMPORARY PAVEMENT MARKING - TAPE 6 IN	LF	
636011-001	TRAFFIC CONTROL DEVICE	UNIT	26,340
636012-001	PROJECT TRAFFIC CONTROL DEVICE CLEANING	EACH	2
636013-001	INDIVIDUAL TRAFFIC CONTROL DEVICE CLEANING	EACH	30
636014-001	FLAGGER	HR	2800
636014-002	TRAFFIC DIRECTOR	HR	300
636017-005	TEMPORARY BARRIER TL-3, III	LF	1200
636018-003	REMOVE AND RESET TEMPORARY BARRIER	LF	
636021-001	ELECTRIC ARROW	DAY	20
636022-001	CHANGEABLE MESSAGE SIGN	DAY	
636023-001	TEMPORARY TRAFFIC SIGNAL	LS	
636024-001	TEMPORARY PIPE FOR MAINTAINING TRAFFIC	LF	30
636025-001	WARNING LIGHTS, TYPE A	DAY	
636025-001	WARNING LIGHTS, TYPE B	DAY	4400
636025-001	WARNING LIGHTS, TYPE C	DAY	
636030-001	SPEED MONITORING TRAILER	DAY	
636060-001	TEMPORARY IMPACT ATTENUATING DEVICE	EACH	4
636060-002	REMOVE AND RESET ATTENUATOR DEVICE	EACH	
663005-011	STOP LINE, TYPE V - 24 IN	LF	

TTCS-1

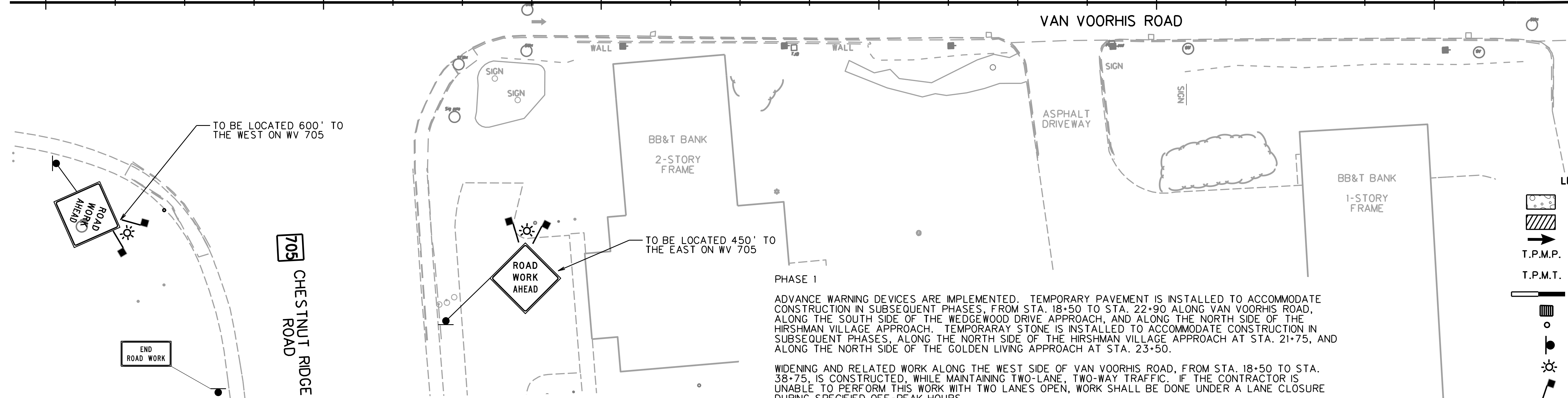
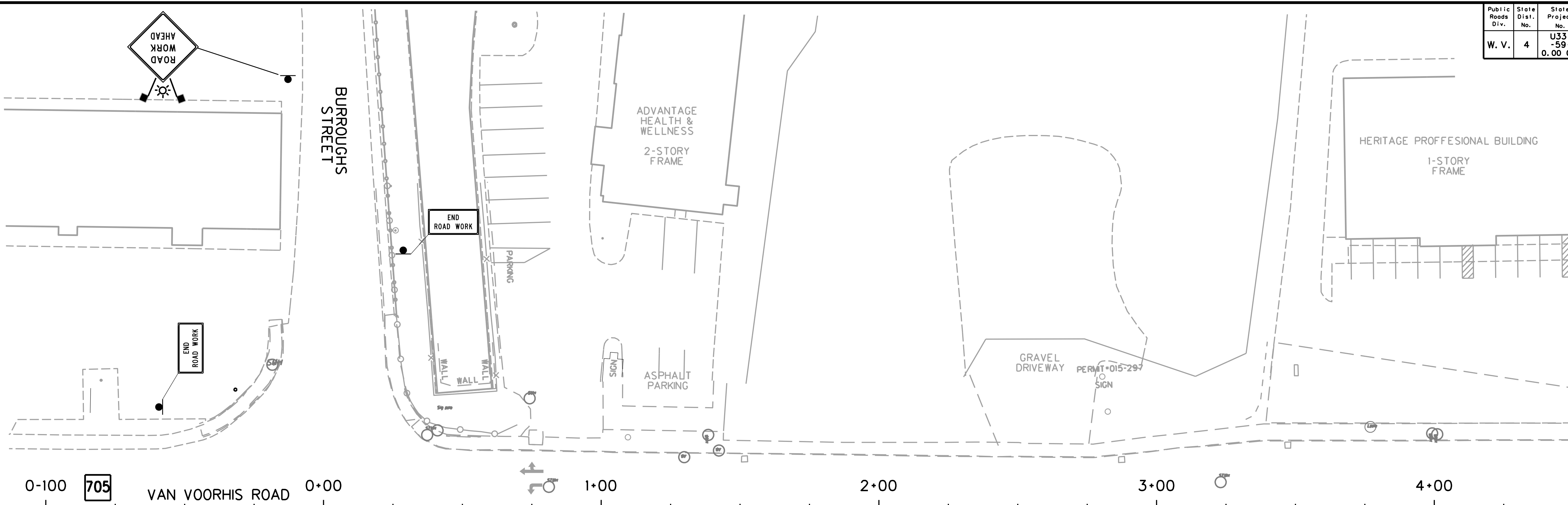
SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**TEMPORARY TRAFFIC CONTROL
MOT SUMMARY**

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0237D)	2020	MONONGALIA	36	301



MATCHLINE 4+50

LEGEND

	TEMP. ASPHALT PAVING
	WORK AREA
	TRAFFIC FLOW
	TEMPORARY PAVEMENT MARKING PAINT
	TEMPORARY PAVEMENT MARKING TAPE
	TEMPORARY BARRIER
	TEMPORARY IMPACT ATTENUATOR
	CHANNELIZER CONES
	SIGN ON PORTABLE OR PERMANENT SUPPORT
	TYPE B LIGHT
	FLAG, ORANGE, 18" x 18" MIN.
	YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
	TYPE III BARRICADE
	ARROW PANEL

PHASE I

ADVANCE WARNING DEVICES ARE IMPLEMENTED. TEMPORARY PAVEMENT IS INSTALLED TO ACCOMMODATE CONSTRUCTION IN SUBSEQUENT PHASES, FROM STA. 18+50 TO STA. 22+90 ALONG VAN VOORHIS ROAD, ALONG THE SOUTH SIDE OF THE WEDGEWOOD DRIVE APPROACH, AND ALONG THE NORTH SIDE OF THE HIRSHMAN VILLAGE APPROACH. TEMPORARY STONE IS INSTALLED TO ACCOMMODATE CONSTRUCTION IN SUBSEQUENT PHASES, ALONG THE NORTH SIDE OF THE HIRSHMAN VILLAGE APPROACH AT STA. 21+75, AND ALONG THE NORTH SIDE OF THE GOLDEN LIVING APPROACH AT STA. 23+50.

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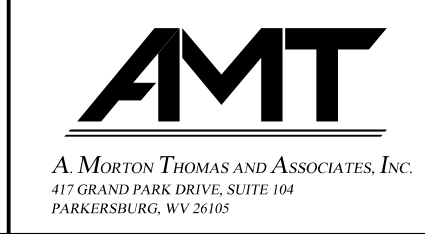
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CASE A3, A4, A9, OR B1 WILL BE UTILIZED IN THIS PHASE.

TTCP-1

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE I

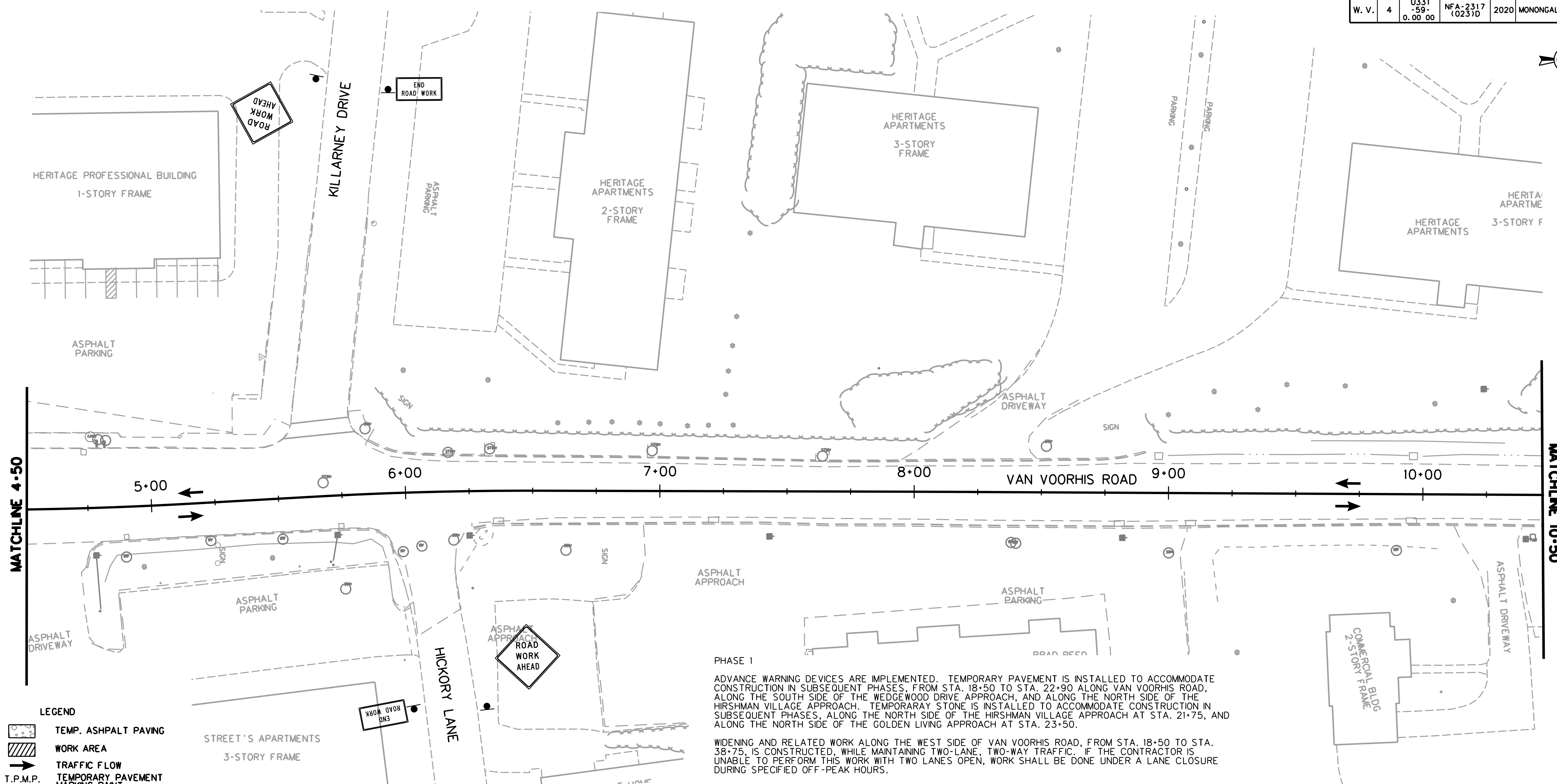
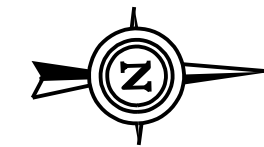
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REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0237D)	2020	MONONGALIA	37	301



- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
 - T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
 - CHANNELIZER CONES
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE B LIGHT
 - FLAG, ORANGE, 18"x18" MIN.
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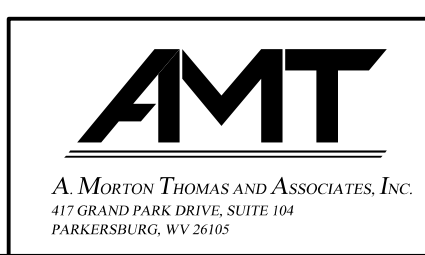
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TTCP - 2

SUBMITTED 6/29/2020

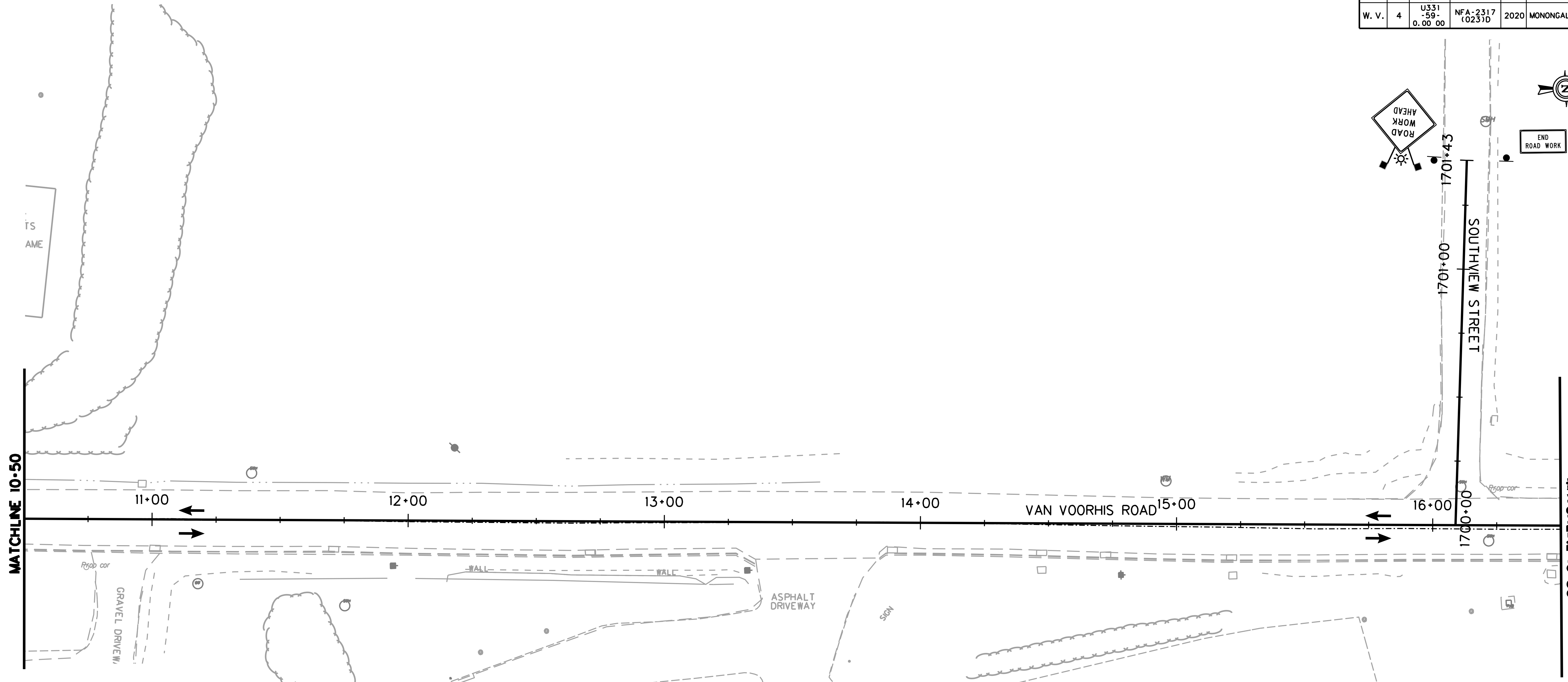
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REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE I

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (023)D	2020	MONONGALIA	38	301



- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
 - T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
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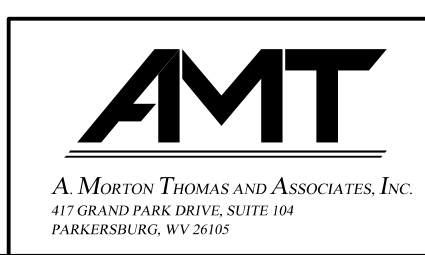
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TTCP - 3

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE I

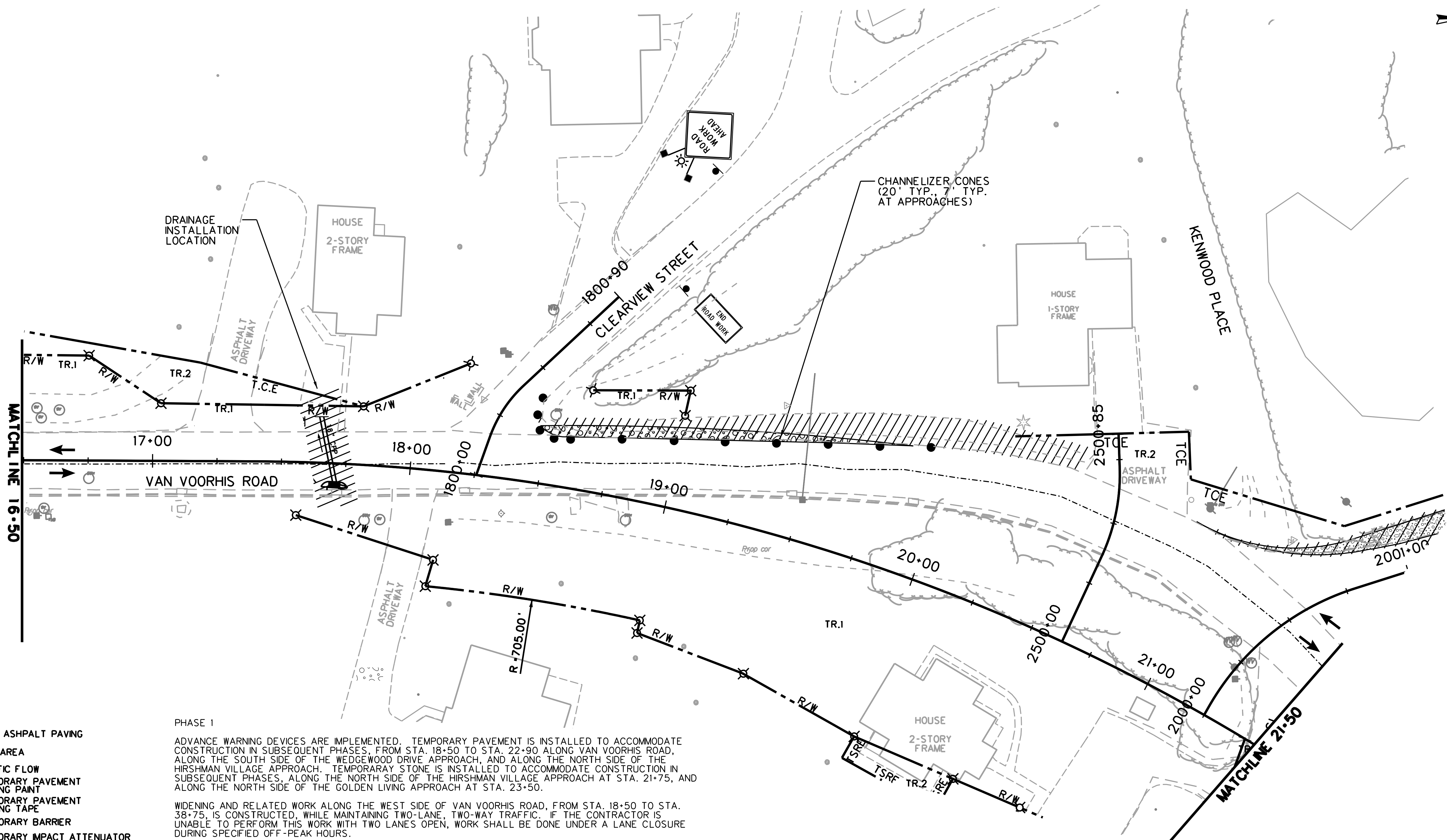
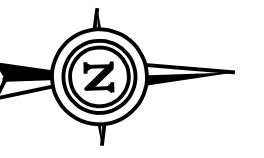
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REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	39	301



- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
 - T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
 - CHANNELIZER CONES
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE B LIGHT
 - FLAG, ORANGE, 18"x18" MIN.
 - YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
 - TYPE III BARRICADE
 - ARROW PANEL

PHASE 1

ADVANCE WARNING DEVICES ARE IMPLEMENTED. TEMPORARY PAVEMENT IS INSTALLED TO ACCOMMODATE CONSTRUCTION IN SUBSEQUENT PHASES, FROM STA. 18+50 TO STA. 22+90 ALONG VAN VOORHIS ROAD, ALONG THE SOUTH SIDE OF THE WEDGEWOOD DRIVE APPROACH, AND ALONG THE NORTH SIDE OF THE HIRSHMAN VILLAGE APPROACH. TEMPORARY STONE IS INSTALLED TO ACCOMMODATE CONSTRUCTION IN SUBSEQUENT PHASES, ALONG THE NORTH SIDE OF THE HIRSHMAN VILLAGE APPROACH AT STA. 21+75, AND ALONG THE NORTH SIDE OF THE GOLDEN LIVING APPROACH AT STA. 23+50.

WIDENING AND RELATED WORK ALONG THE WEST SIDE OF VAN VOORHIS ROAD, FROM STA. 18+50 TO STA. 38+75, IS CONSTRUCTED, WHILE MAINTAINING TWO-LANE, TWO-WAY TRAFFIC. IF THE CONTRACTOR IS UNABLE TO PERFORM THIS WORK WITH TWO LANES OPEN, WORK SHALL BE DONE UNDER A LANE CLOSURE DURING SPECIFIED OFF-PEAK HOURS.

CROSS PIPES ON VAN VOORHIS ROAD, WITHIN THE SECTION FROM STA. 17+50 TO STA. 37+25, ARE INSTALLED AT THIS TIME.

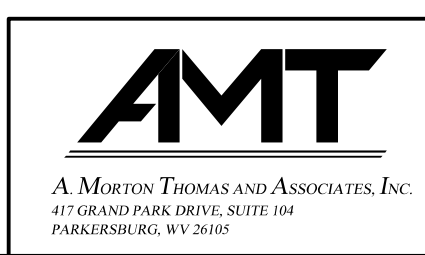
THE SOIL NAIL RETAINING WALL TO BE INSTALLED ALONG THE WEST SIDE OF VAN VOORHIS ROAD, FROM STA. 27+40 TO STA. 28+10, WILL BE INSTALLED AT THIS TIME.

ONE-LANE TRAFFIC CONTROL FOR CROSS PIPE AND SOIL NAIL INSTALLATION WILL BE PERMITTED DURING SPECIFIED OFF-PEAK HOURS.

THE TWO LANE TEMPORARY BRIDGE OVER WEST RUN IS CONSTRUCTED ALONG WITH APPROACHES. TIE IN WORK FOR THE TEMPORARY BRIDGE APPROACHES IS CONSTRUCTED USING SHORT-TERM, ONE LANE TRAFFIC CONTROL. THIS WORK SHALL BEGIN DURING OFF PEAK HOURS AND CONTINUE IN A NON-STOP OPERATION UNTIL COMPLETION. THIS WORK OPERATION SHALL BE LIMITED TO THE SEASON BEGINNING AT THE END OF WVU'S SPRING SEMESTER AND ENDING AT THE BEGINNING OF THE FALL SEMESTER. ADDITIONALLY, EACH SESSION OF THE CONTINUOUS WORK OPERATION SHALL BE LIMITED TO A 72-HOUR DURATION.

CASE A3, A4, A9 OR B1 WILL BE UTILIZED IN THIS PHASE.

SCALE : 0 20 ft.



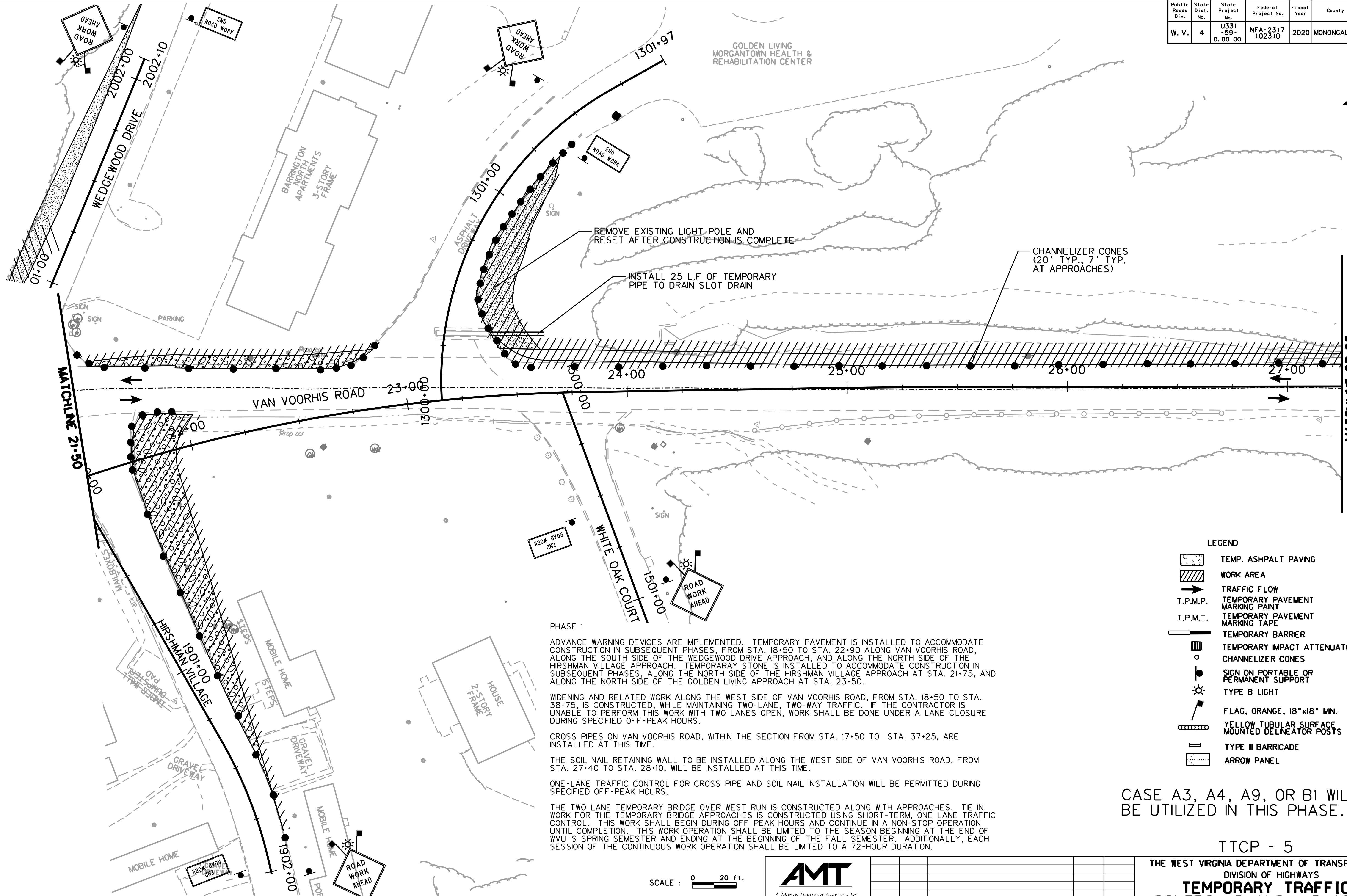
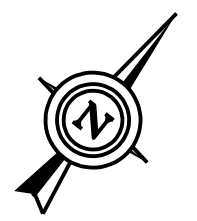
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

TTCP - 4

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE 1

SUBMITTED 6/29/2020

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REMOVE EXISTING LIGHT POLE AND RESET AFTER CONSTRUCTION IS COMPLETE

INSTALL 25 L.F. OF TEMPORARY PIPE TO DRAIN SLOT DRAIN

CHANNELIZER CONES (20' TYP. 7' TYP. AT APPROACHES)

LEGEND

	TEMP. ASPHALT PAVING
	WORK AREA
	TRAFFIC FLOW
	TEMPORARY PAVEMENT MARKING PAINT
	TEMPORARY PAVEMENT MARKING TAPE
	TEMPORARY BARRIER
	TEMPORARY IMPACT ATTENUATOR
	CHANNELIZER CONES
	SIGN ON PORTABLE OR PERMANENT SUPPORT
	TYPE B LIGHT
	FLAG, ORANGE, 18"x18" MN.
	YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
	TYPE III BARRICADE
	ARROW PANEL

PHASE 1

ADVANCE WARNING DEVICES ARE IMPLEMENTED. TEMPORARY PAVEMENT IS INSTALLED TO ACCOMMODATE CONSTRUCTION IN SUBSEQUENT PHASES, FROM STA. 18+50 TO STA. 22+90 ALONG VAN VOORHIS ROAD, ALONG THE SOUTH SIDE OF THE WEDGEWOOD DRIVE APPROACH, AND ALONG THE NORTH SIDE OF THE HIRSHMAN VILLAGE APPROACH. TEMPORARY STONE IS INSTALLED TO ACCOMMODATE CONSTRUCTION IN SUBSEQUENT PHASES, ALONG THE NORTH SIDE OF THE HIRSHMAN VILLAGE APPROACH AT STA. 21+75, AND ALONG THE NORTH SIDE OF THE GOLDEN LIVING APPROACH AT STA. 23+50.

WIDENING AND RELATED WORK ALONG THE WEST SIDE OF VAN VOORHIS ROAD, FROM STA. 18+50 TO STA. 38+75, IS CONSTRUCTED, WHILE MAINTAINING TWO-LANE, TWO-WAY TRAFFIC. IF THE CONTRACTOR IS UNABLE TO PERFORM THIS WORK WITH TWO LANES OPEN, WORK SHALL BE DONE UNDER A LANE CLOSURE DURING SPECIFIED OFF-PEAK HOURS.

CROSS PIPES ON VAN VOORHIS ROAD, WITHIN THE SECTION FROM STA. 17+50 TO STA. 37+25, ARE INSTALLED AT THIS TIME.

THE SOIL NAIL RETAINING WALL TO BE INSTALLED ALONG THE WEST SIDE OF VAN VOORHIS ROAD, FROM STA. 27+40 TO STA. 28+10, WILL BE INSTALLED AT THIS TIME.

ONE-LANE TRAFFIC CONTROL FOR CROSS PIPE AND SOIL NAIL INSTALLATION WILL BE PERMITTED DURING SPECIFIED OFF-PEAK HOURS.

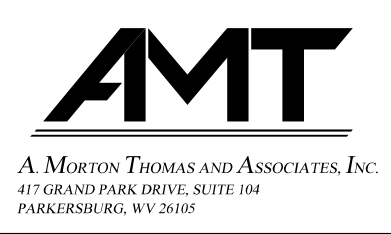
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CASE A3, A4, A9, OR B1 WILL BE UTILIZED IN THIS PHASE.

TTCP - 5

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE 1

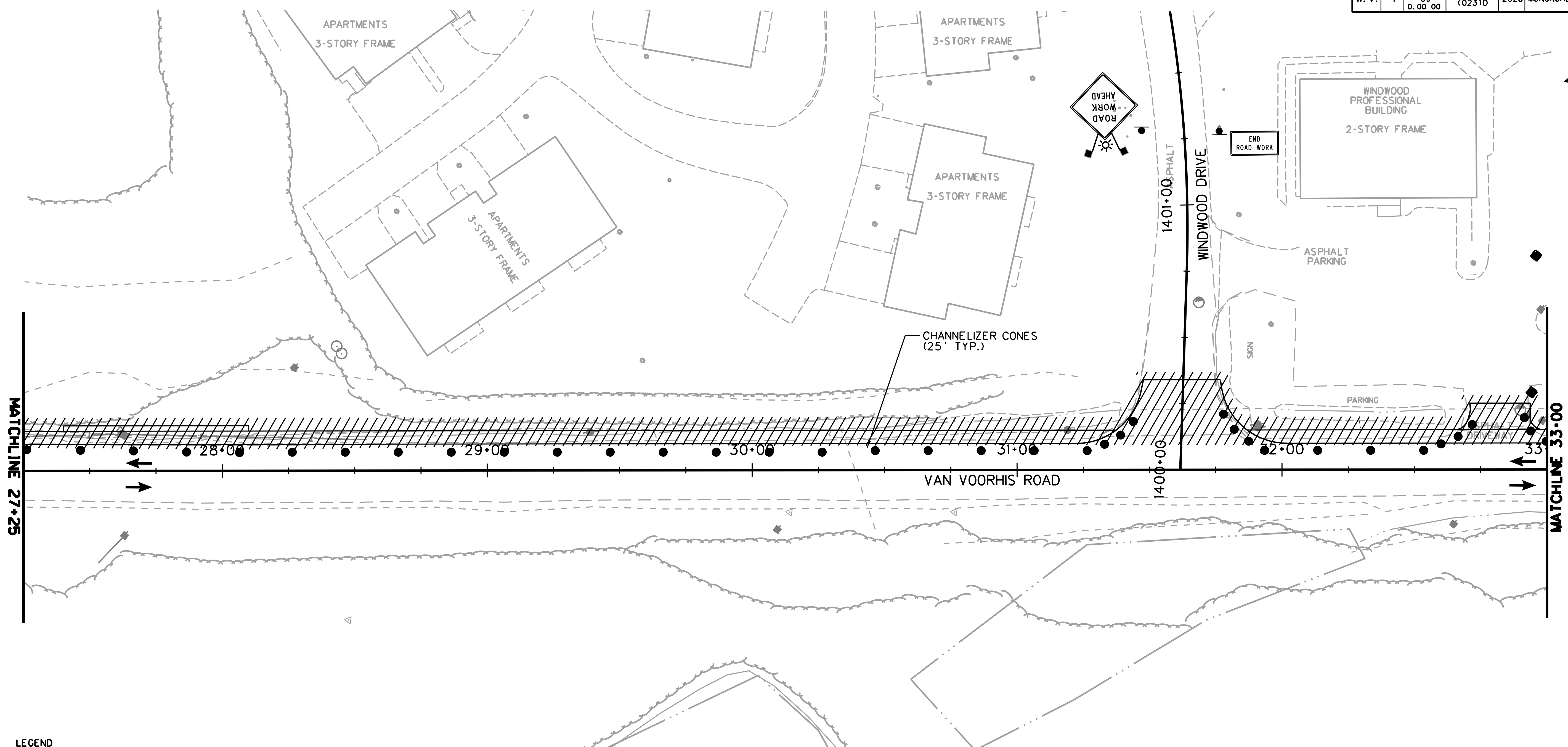
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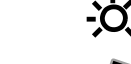

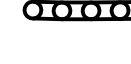

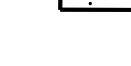


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LEGEND

-  TEMP. ASPHALT PAVING
-  WORK AREA
-  TRAFFIC FLOW
-  T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
-  T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
-  TEMPORARY BARRIER
-  TEMPORARY IMPACT ATTENUATOR
-  CHANNELIZER CONES
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TYPE B LIGHT
-  FLAG, ORANGE, 18" x 18" MN.
-  YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
-  TYPE III BARRICADE
-  ARROW PANEL

PHASE 1

ADVANCE WARNING DEVICES ARE IMPLEMENTED. TEMPORARY PAVEMENT IS INSTALLED TO ACCOMMODATE CONSTRUCTION IN SUBSEQUENT PHASES, FROM STA. 18+50 TO STA. 22+90 ALONG VAN VOORHIS ROAD, ALONG THE SOUTH SIDE OF THE WEDGEWOOD DRIVE APPROACH, AND ALONG THE NORTH SIDE OF THE HIRSHMAN VILLAGE APPROACH. TEMPORARY STONE IS INSTALLED TO ACCOMMODATE CONSTRUCTION IN SUBSEQUENT PHASES, ALONG THE NORTH SIDE OF THE HIRSHMAN VILLAGE APPROACH AT STA. 21+75, AND ALONG THE NORTH SIDE OF THE GOLDEN LIVING APPROACH AT STA. 23+50.

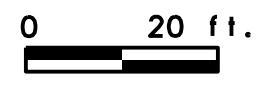
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CROSS PIPES ON VAN VOORHIS ROAD, WITHIN THE SECTION FROM STA. 17+50 TO STA. 37+25, ARE INSTALLED AT THIS TIME.

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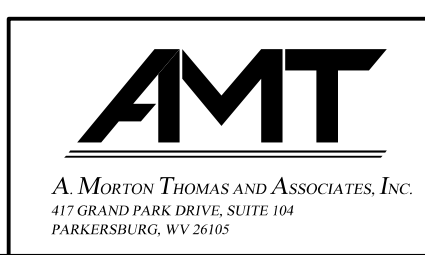
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SCALE :  20 ft.

CASE A4, A9 OR B1 WILL BE UTILIZED IN THIS PHASE.

TTCP - 6

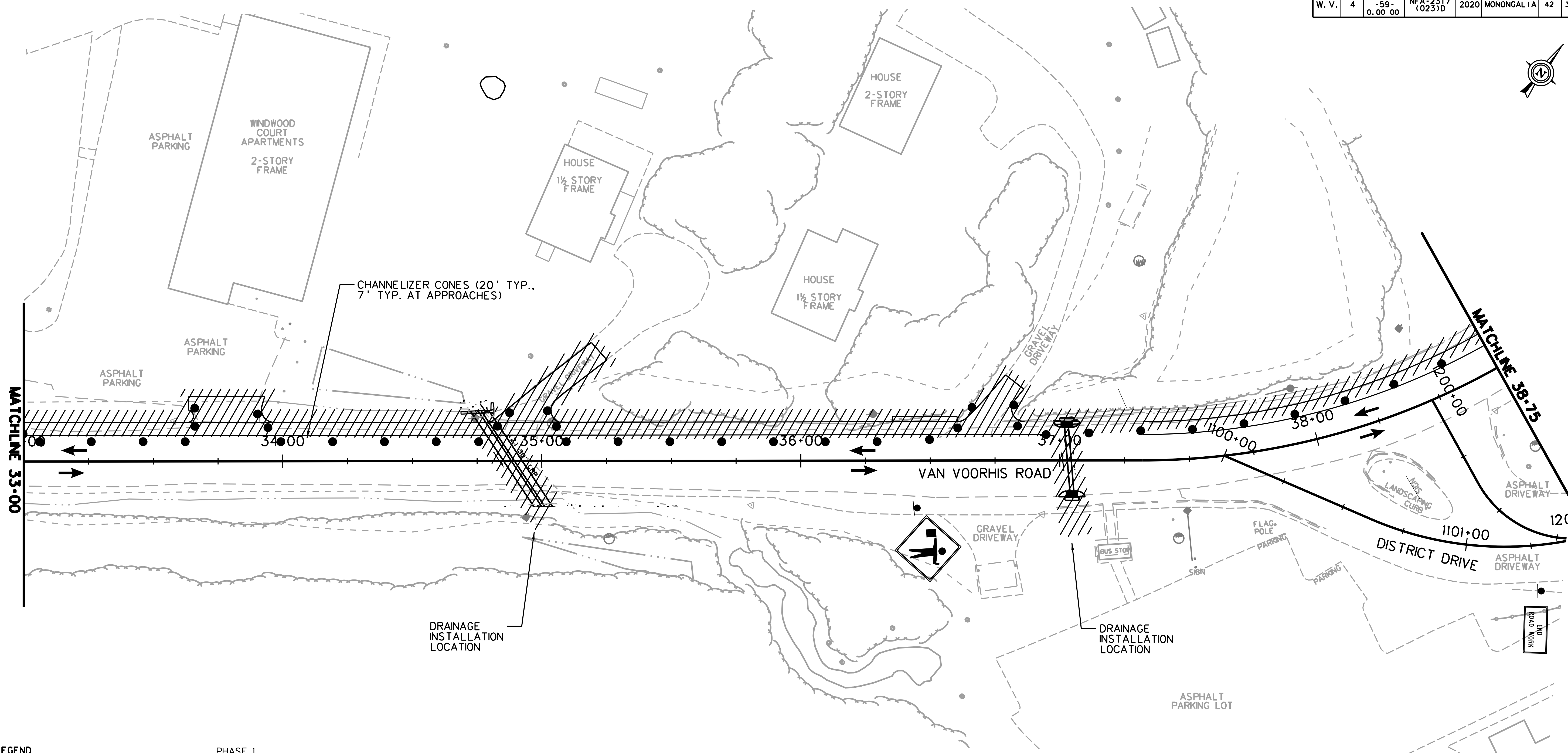
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE 1



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

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LEGEND

- TEMP. ASPHALT PAVING
- WORK AREA
- TRAFFIC FLOW
- T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
- T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
- TEMPORARY BARRIER
- TEMPORARY IMPACT ATTENUATOR
- CHANNELIZER CONES
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE B LIGHT
- FLAG, ORANGE, 18"x18" MN.
- YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
- TYPE II BARRICADE
- ARROW PANEL

PHASE 1

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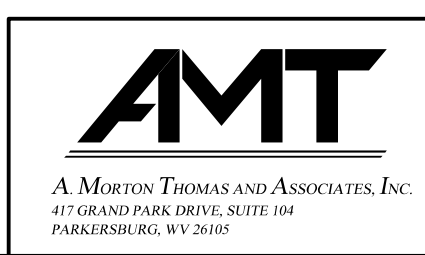
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SCALE : 0 20 ft.

CASE A4, A9 OR B1 WILL BE UTILIZED IN THIS PHASE.

TTCP - 7

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**TEMPORARY TRAFFIC CONTROL
PLANS SUB-PHASE 1A**










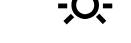

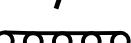

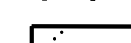


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LEGEND

-  TEMP. ASPHALT PAVING
-  WORK AREA
-  TRAFFIC FLOW
-  T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
-  T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
-  TEMPORARY BARRIER
-  TEMPORARY IMPACT ATTENUATOR
-  CHANNELIZER CONES
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TYPE B LIGHT
-  FLAG, ORANGE, 18" x 18" MN.
-  YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
-  TYPE II BARRICADE
-  ARROW PANEL

PHASE 1

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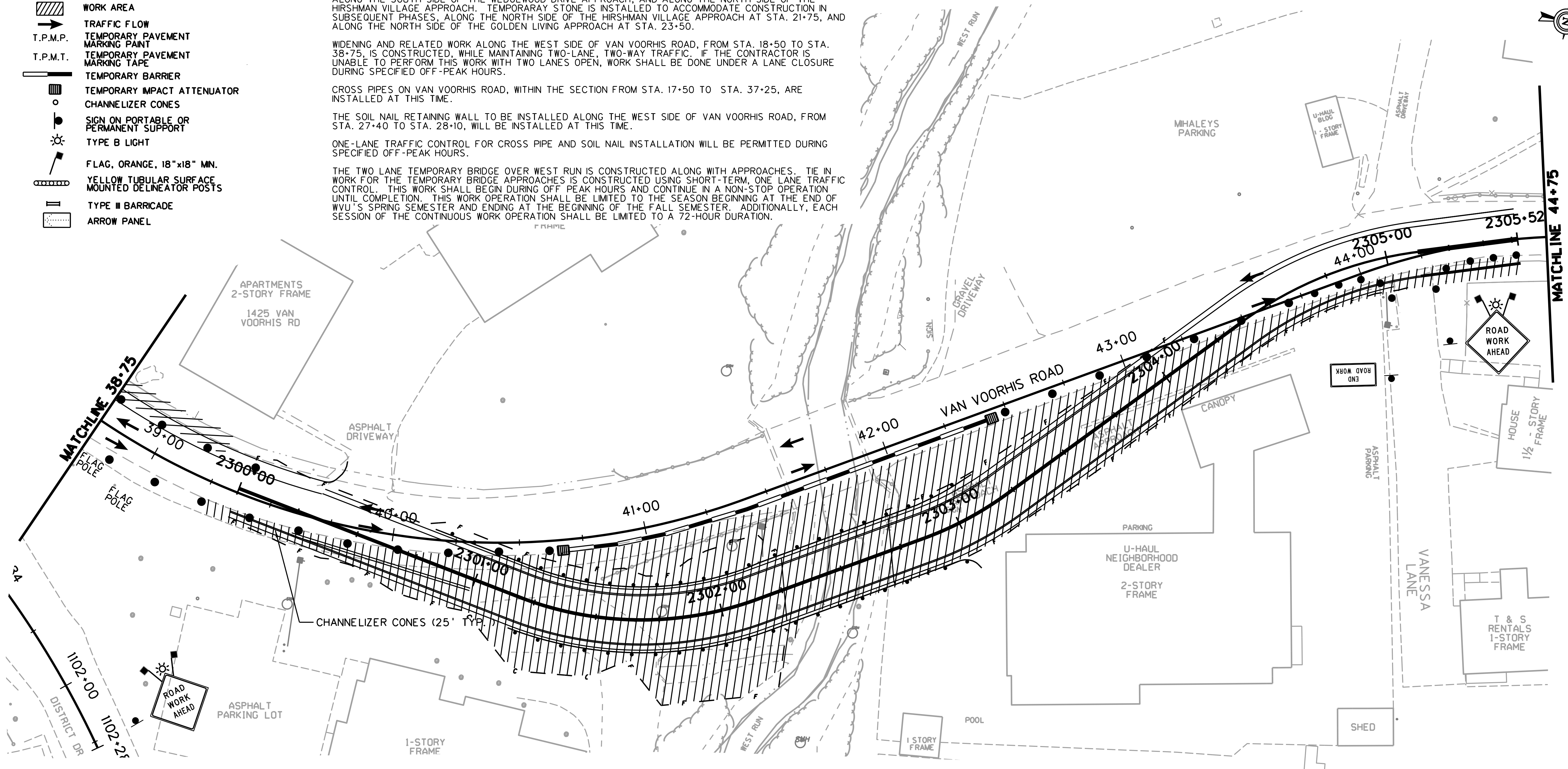
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CROSS PIPES ON VAN VOORHIS ROAD, WITHIN THE SECTION FROM STA. 17+50 TO STA. 37+25, ARE INSTALLED AT THIS TIME.

THE SOIL NAIL RETAINING WALL TO BE INSTALLED ALONG THE WEST SIDE OF VAN VOORHIS ROAD, FROM STA. 27+40 TO STA. 28+10, WILL BE INSTALLED AT THIS TIME.

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THE TWO LANE TEMPORARY BRIDGE OVER WEST RUN IS CONSTRUCTED ALONG WITH APPROACHES. TIE IN WORK FOR THE TEMPORARY BRIDGE APPROACHES IS CONSTRUCTED USING SHORT-TERM, ONE LANE TRAFFIC CONTROL. THIS WORK SHALL BEGIN DURING OFF PEAK HOURS AND CONTINUE IN A NON-STOP OPERATION UNTIL COMPLETION. THIS WORK OPERATION SHALL BE LIMITED TO THE SEASON BEGINNING AT THE END OF WYU'S SPRING SEMESTER AND ENDING AT THE BEGINNING OF THE FALL SEMESTER. ADDITIONALLY, EACH SESSION OF THE CONTINUOUS WORK OPERATION SHALL BE LIMITED TO A 72-HOUR DURATION.

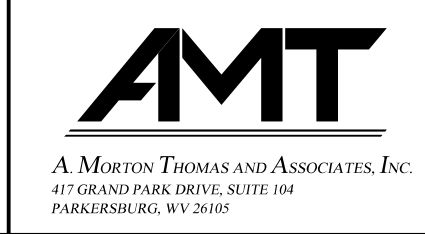


CASE A4, A6, A9 OR B1 WILL BE UTILIZED IN THIS PHASE.

TTCP - 8

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**TEMPORARY TRAFFIC CONTROL
PLANS SUB-PHASE 1A**

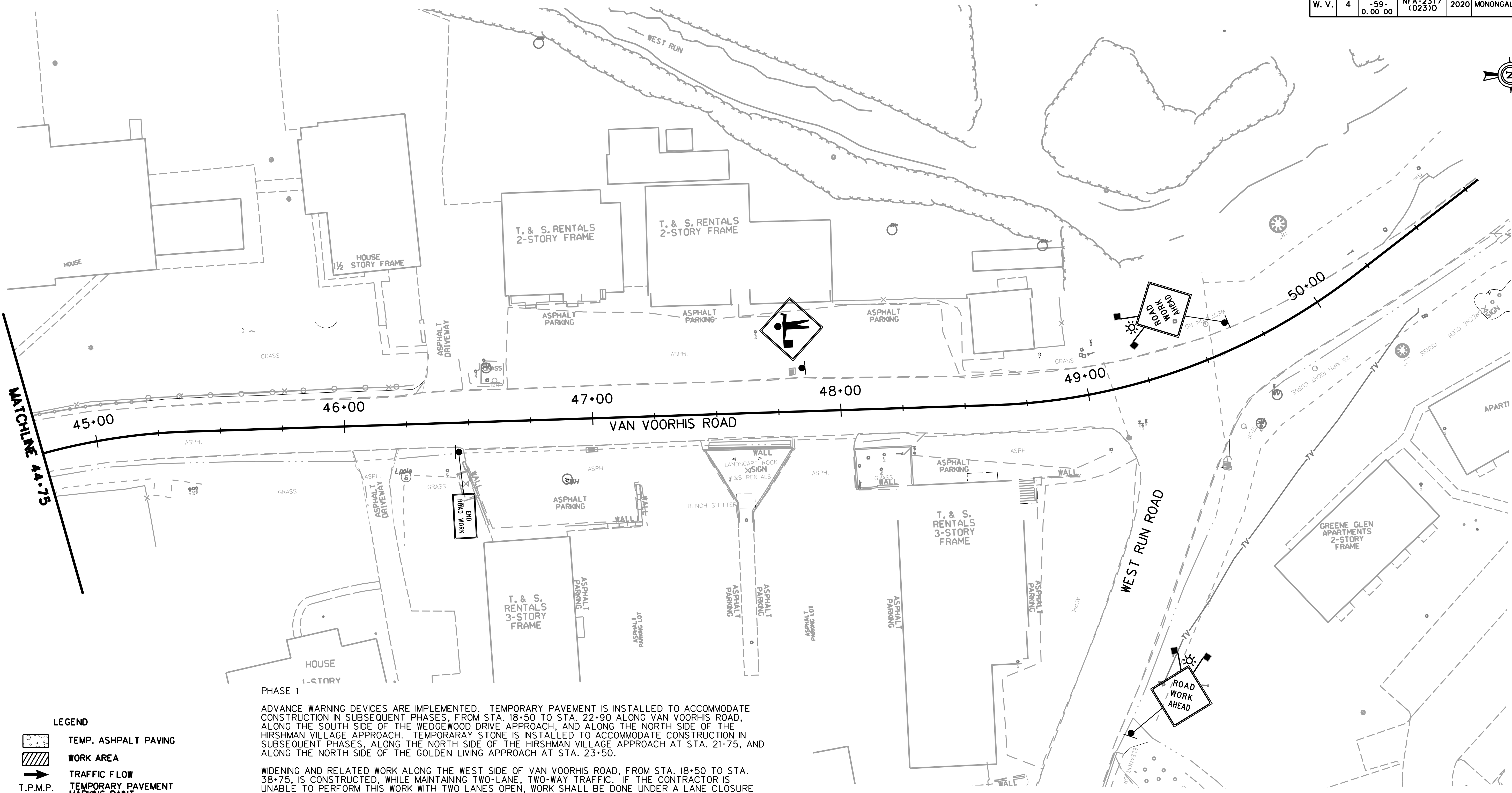
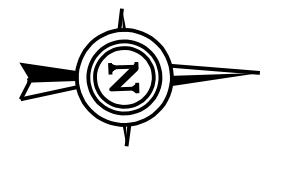
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- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - T.P.M.P.
 - T.P.M.T.
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
 - CHANNELIZER CONES
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE B LIGHT
 - FLAG, ORANGE, 18"x18" MIN.
 - YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
 - TYPE II BARRICADE
 - ARROW PANEL

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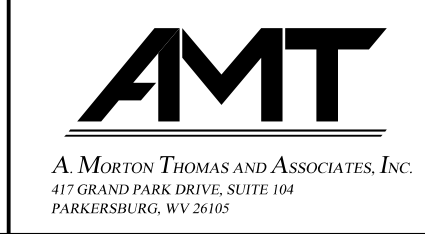
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CASE A4, A9 OR B1 WILL BE UTILIZED IN THIS PHASE.

TTCP - 9

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**TEMPORARY TRAFFIC CONTROL
PLANS SUB-PHASE 1A**

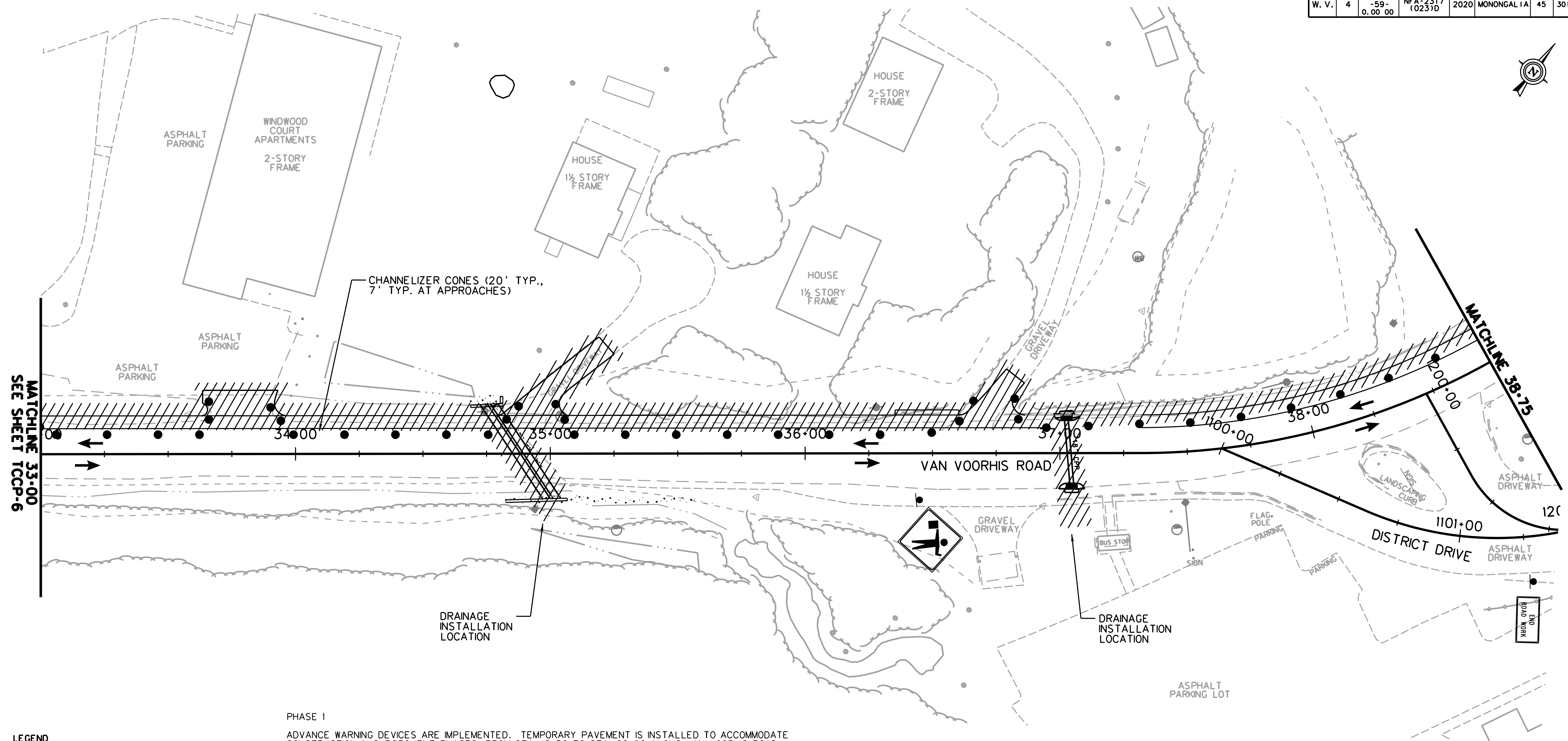
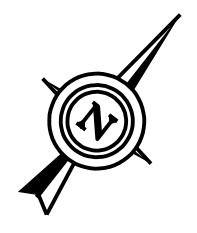
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PHASE 1

ADVANCE WARNING DEVICES ARE IMPLEMENTED. TEMPORARY PAVEMENT IS INSTALLED TO ACCOMMODATE CONSTRUCTION IN SUBSEQUENT PHASES, FROM STA. 18+50 TO STA. 22+90 ALONG VAN VOORHIS ROAD, ALONG THE SOUTH SIDE OF THE WEDGEWOOD DRIVE APPROACH, AND ALONG THE NORTH SIDE OF THE HIRSHMAN VILLAGE APPROACH. TEMPORARY STONE IS INSTALLED TO ACCOMMODATE CONSTRUCTION IN SUBSEQUENT PHASES, ALONG THE NORTH SIDE OF THE HIRSHMAN VILLAGE APPROACH AT STA. 21+75, AND ALONG THE NORTH SIDE OF THE GOLDEN LIVING APPROACH AT STA. 23+50.

WIDENING AND RELATED WORK ALONG THE WEST SIDE OF VAN VOORHIS ROAD, FROM STA. 18+50 TO STA. 38+75, IS CONSTRUCTING. WHILE MAINTAINING TWO-LANE, TWO-WAY TRAFFIC. IF THE CONTRACTOR IS UNABLE TO PERFORM THIS WORK WITH TWO LANES OPEN, WORK SHALL BE DONE UNDER A LANE CLOSURE DURING SPECIFIED OFF-PEAK HOURS.

CROSS PIPES ON VAN VOORHIS ROAD, WITHIN THE SECTION FROM STA. 17+50 TO STA. 37+25, ARE INSTALLED AT THIS TIME.

THE SOIL NAIL RETAINING WALL TO BE INSTALLED ALONG THE WEST SIDE OF VAN VOORHIS ROAD, FROM STA. 27+40 TO STA. 28+10, WILL BE INSTALLED AT THIS TIME.

ONE-LANE TRAFFIC CONTROL FOR CROSS PIPE AND SOIL NAIL INSTALLATION WILL BE PERMITTED DURING SPECIFIED OFF-PEAK HOURS.

THE TWO LANE TEMPORARY BRIDGE OVER WEST RUN IS CONSTRUCTED ALONG WITH APPROACHES. TIE IN WORK FOR THE TEMPORARY BRIDGE APPROACHES IS CONSTRUCTED USING SHORT-TERM, ONE LANE TRAFFIC CONTROL. THIS WORK SHALL BEGIN DURING OFF PEAK HOURS AND CONTINUE IN A NON-STOP OPERATION UNTIL COMPLETION. THIS WORK OPERATION SHALL BE LIMITED TO THE SEASON BEGINNING AT THE END OF WVU'S SPRING SEMESTER AND ENDING AT THE BEGINNING OF THE FALL SEMESTER. ADDITIONALLY, EACH SESSION OF THE CONTINUOUS WORK OPERATION SHALL BE LIMITED TO A 72-HOUR DURATION.

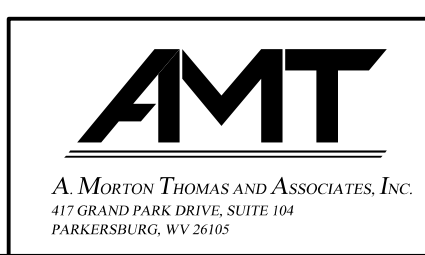
CASE A4, A9 OR B1 WILL BE UTILIZED IN THIS PHASE.

TTCP - 10

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**TEMPORARY TRAFFIC CONTROL
PLANS SUB-PHASE 1B**

- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
 - T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
 - CHANNELIZER CONES
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE B LIGHT
 - FLAG, ORANGE, 18"x18" MN.
 - YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
 - TYPE II BARRICADE
 - ARROW PANEL

SCALE : 0 20 ft.





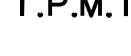











REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

SUBMITTED 6/29/2020

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LEGEND

-  TEMP. ASPHALT PAVING
-  WORK AREA
-  TRAFFIC FLOW
-  T.P.M.P.
-  T.P.M.T.
-  TEMPORARY BARRIER
-  TEMPORARY IMPACT ATTENUATOR
-  CHANNELIZER CONES
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TYPE B LIGHT
-  FLAG, ORANGE, 18"x18" MIN.
-  YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
-  TYPE II BARRICADE
-  ARROW PANEL

PHASE 1

ADVANCE WARNING DEVICES ARE IMPLEMENTED. TEMPORARY PAVEMENT IS INSTALLED TO ACCOMMODATE CONSTRUCTION IN SUBSEQUENT PHASES, FROM STA. 18+50 TO STA. 22+90 ALONG VAN VOORHIS ROAD, ALONG THE SOUTH SIDE OF THE WEDGEWOOD DRIVE APPROACH, AND ALONG THE NORTH SIDE OF THE HIRSHMAN VILLAGE APPROACH. TEMPORARY STONE IS INSTALLED TO ACCOMMODATE CONSTRUCTION IN SUBSEQUENT PHASES, ALONG THE NORTH SIDE OF THE HIRSHMAN VILLAGE APPROACH AT STA. 21+75, AND ALONG THE NORTH SIDE OF THE GOLDEN LIVING APPROACH AT STA. 23+50.

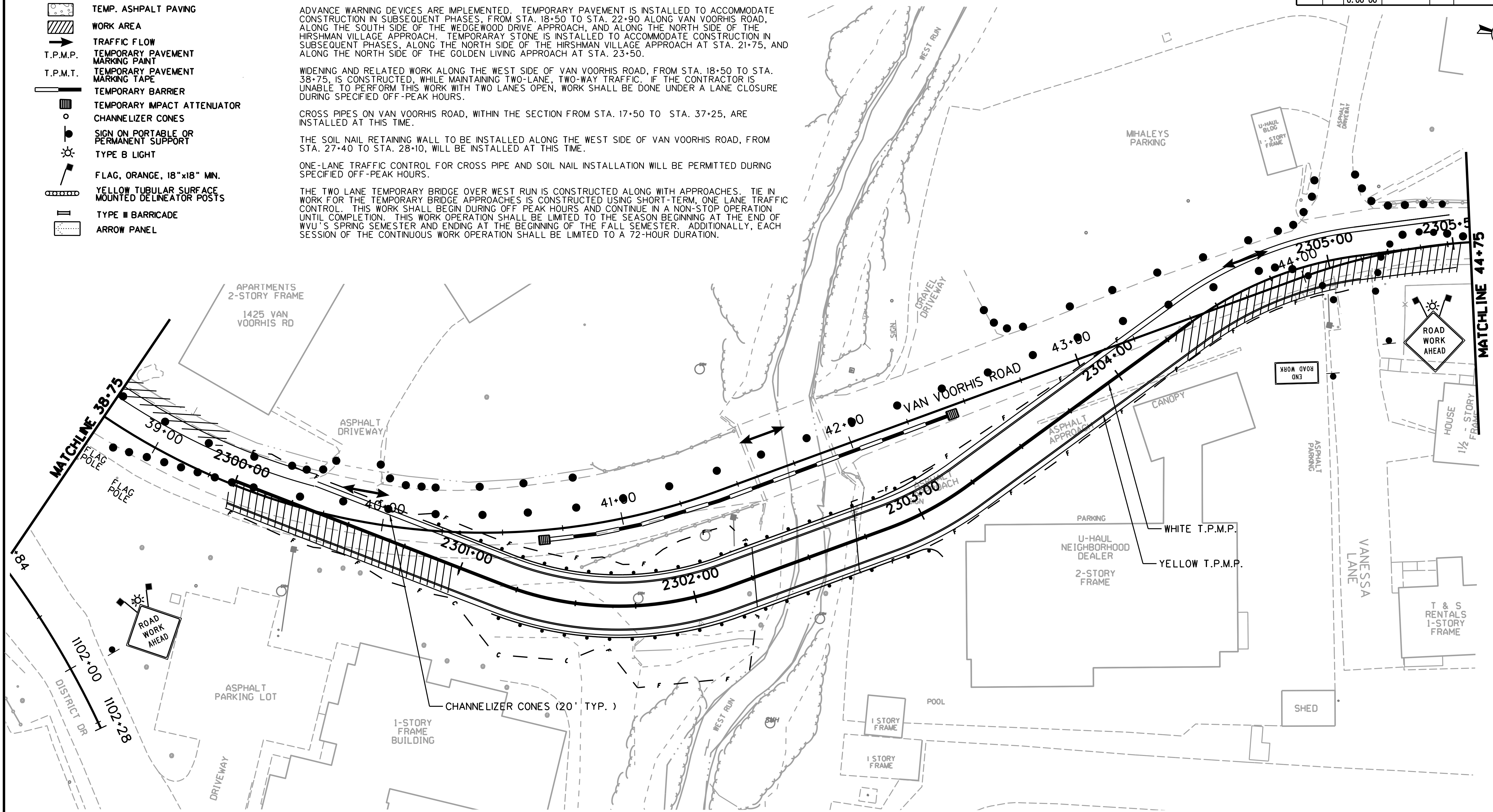
WIDENING AND RELATED WORK ALONG THE WEST SIDE OF VAN VOORHIS ROAD, FROM STA. 18+50 TO STA. 38+75, IS CONSTRUCTED, WHILE MAINTAINING TWO-LANE, TWO-WAY TRAFFIC. IF THE CONTRACTOR IS UNABLE TO PERFORM THIS WORK WITH TWO LANES OPEN, WORK SHALL BE DONE UNDER A LANE CLOSURE DURING SPECIFIED OFF-PEAK HOURS.

CROSS PIPES ON VAN VOORHIS ROAD, WITHIN THE SECTION FROM STA. 17+50 TO STA. 37+25, ARE INSTALLED AT THIS TIME.

THE SOIL NAIL RETAINING WALL TO BE INSTALLED ALONG THE WEST SIDE OF VAN VOORHIS ROAD, FROM STA. 27+40 TO STA. 28+10, WILL BE INSTALLED AT THIS TIME.

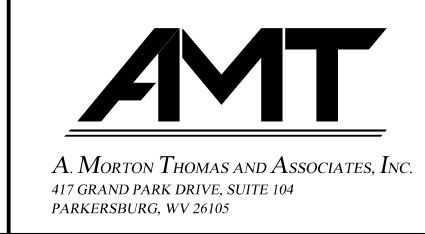
ONE-LANE TRAFFIC CONTROL FOR CROSS PIPE AND SOIL NAIL INSTALLATION WILL BE PERMITTED DURING SPECIFIED OFF-PEAK HOURS.

THE TWO LANE TEMPORARY BRIDGE OVER WEST RUN IS CONSTRUCTED ALONG WITH APPROACHES. TIE IN WORK FOR THE TEMPORARY BRIDGE APPROACHES IS CONSTRUCTED USING SHORT-TERM, ONE LANE TRAFFIC CONTROL. THIS WORK SHALL BEGIN DURING OFF PEAK HOURS AND CONTINUE IN A NON-STOP OPERATION UNTIL COMPLETION. THIS WORK OPERATION SHALL BE LIMITED TO THE SEASON BEGINNING AT THE END OF WVU'S SPRING SEMESTER AND ENDING AT THE BEGINNING OF THE FALL SEMESTER. ADDITIONALLY, EACH SESSION OF THE CONTINUOUS WORK OPERATION SHALL BE LIMITED TO A 72-HOUR DURATION.



CASE A4, A6, A9 OR B1 WILL BE UTILIZED IN THIS PHASE.

SCALE : 0 20 ft.

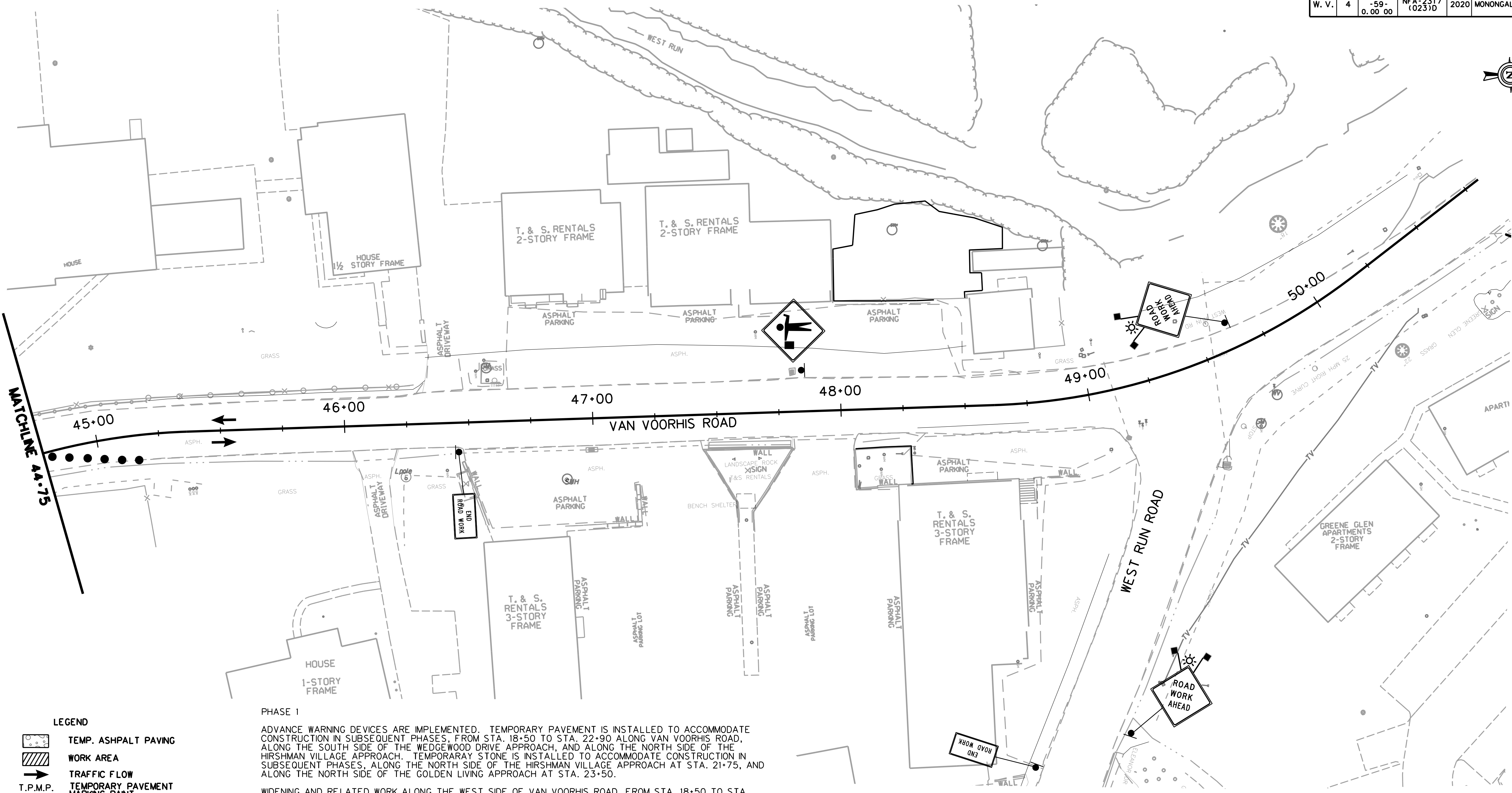
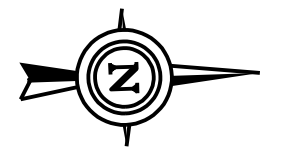


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

TTCP - 11
 THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS SUB-PHASE 1B

SUBMITTED 6/29/2020

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W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	47	301



LEGEND

- TEMP. ASPHALT PAVING
- WORK AREA
- TRAFFIC FLOW
- T.P.M.P.
- T.P.M.T.
- TEMPORARY BARRIER
- TEMPORARY IMPACT ATTENUATOR
- CHANNELIZER CONES
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE B LIGHT
- FLAG, ORANGE, 18"x18" MIN.
- YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
- TYPE II BARRICADE
- ARROW PANEL

PHASE 1

ADVANCE WARNING DEVICES ARE IMPLEMENTED. TEMPORARY PAVEMENT IS INSTALLED TO ACCOMMODATE CONSTRUCTION IN SUBSEQUENT PHASES, FROM STA. 18+50 TO STA. 22+90 ALONG VAN VOORHIS ROAD, ALONG THE SOUTH SIDE OF THE WEDGEWOOD DRIVE APPROACH, AND ALONG THE NORTH SIDE OF THE HIRSHMAN VILLAGE APPROACH. TEMPORARY STONE IS INSTALLED TO ACCOMMODATE CONSTRUCTION IN SUBSEQUENT PHASES, ALONG THE NORTH SIDE OF THE HIRSHMAN VILLAGE APPROACH AT STA. 21+75, AND ALONG THE NORTH SIDE OF THE GOLDEN LIVING APPROACH AT STA. 23+50.

WIDENING AND RELATED WORK ALONG THE WEST SIDE OF VAN VOORHIS ROAD, FROM STA. 18+50 TO STA. 38+75, IS CONSTRUCTED, WHILE MAINTAINING TWO-LANE, TWO-WAY TRAFFIC. IF THE CONTRACTOR IS UNABLE TO PERFORM THIS WORK WITH TWO LANES OPEN, WORK SHALL BE DONE UNDER A LANE CLOSURE DURING SPECIFIED OFF-PEAK HOURS.

CROSS PIPES ON VAN VOORHIS ROAD, WITHIN THE SECTION FROM STA. 17+50 TO STA. 37+25, ARE INSTALLED AT THIS TIME.

THE SOIL NAIL RETAINING WALL TO BE INSTALLED ALONG THE WEST SIDE OF VAN VOORHIS ROAD, FROM STA. 27+40 TO STA. 28+10, WILL BE INSTALLED AT THIS TIME.

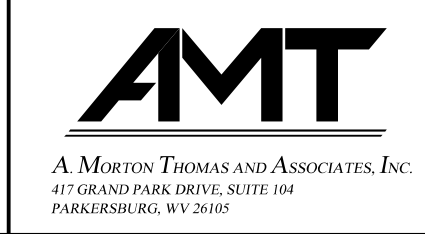
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CASE A4, A9 OR B1 WILL BE UTILIZED IN THIS PHASE.

TTCP - 12

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS SUB-PHASE 1B

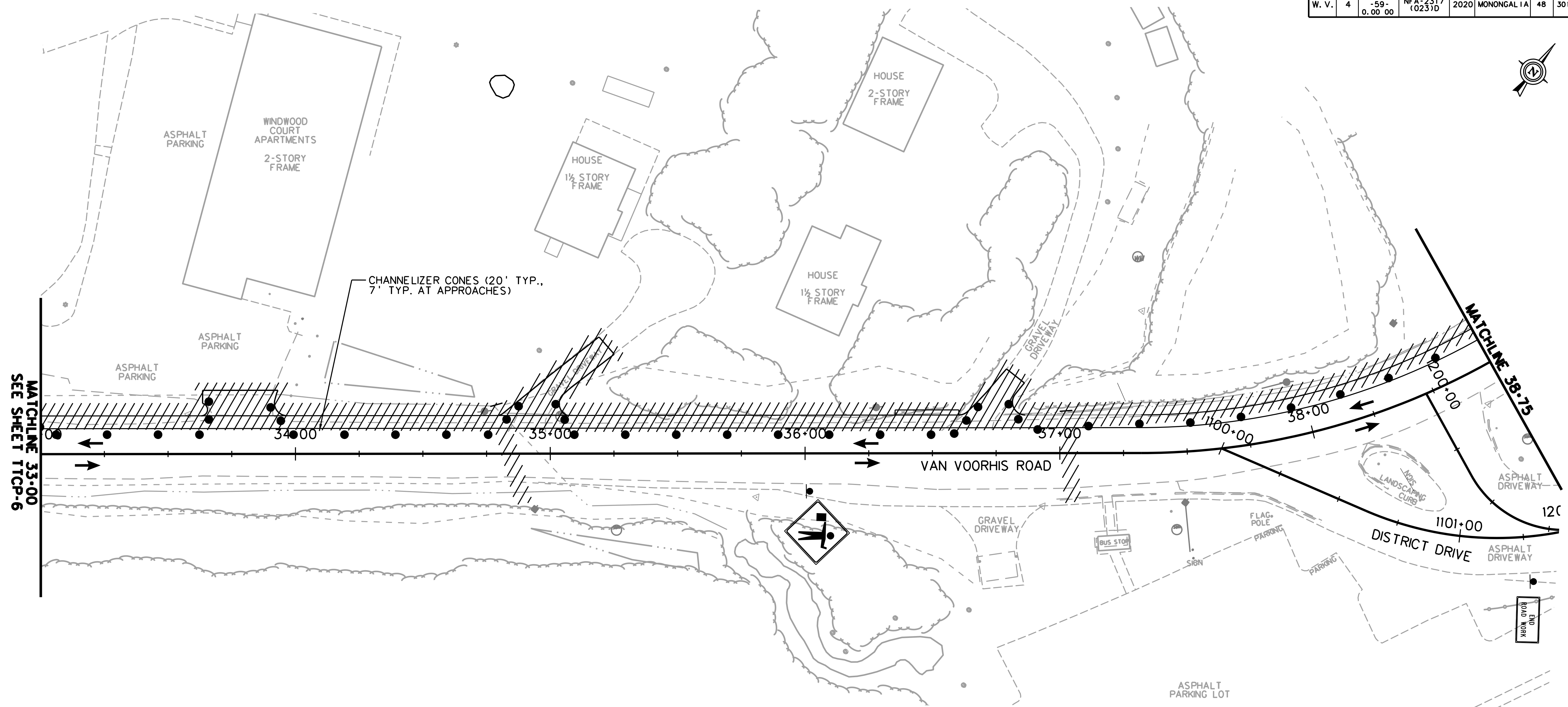


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

SCALE : 0 20 ft.

SUBMITTED 6/29/2020

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PHASE 1

ADVANCE WARNING DEVICES ARE IMPLEMENTED. TEMPORARY PAVEMENT IS INSTALLED TO ACCOMMODATE CONSTRUCTION IN SUBSEQUENT PHASES, FROM STA. 18+50 TO STA. 22+90 ALONG VAN VOORHIS ROAD, ALONG THE SOUTH SIDE OF THE WEDGEWOOD DRIVE APPROACH, AND ALONG THE NORTH SIDE OF THE HIRSHMAN VILLAGE APPROACH. TEMPORARY STONE IS INSTALLED TO ACCOMMODATE CONSTRUCTION IN SUBSEQUENT PHASES, ALONG THE NORTH SIDE OF THE HIRSHMAN VILLAGE APPROACH AT STA. 21+75, AND ALONG THE NORTH SIDE OF THE GOLDEN LIVING APPROACH AT STA. 23+50.

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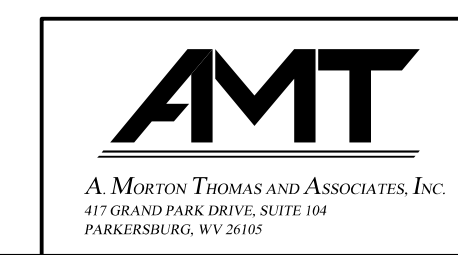
CASE A4, A9 OR B1 WILL BE UTILIZED IN THIS PHASE.

TTCP - 13

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**TEMPORARY TRAFFIC CONTROL
PLANS SUB-PHASE 1C**

- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
 - T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
 - CHANNELIZER CONES
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE B LIGHT
 - FLAG, ORANGE, 18"x18" MN.
 - YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
 - TYPE II BARRICADE
 - ARROW PANEL

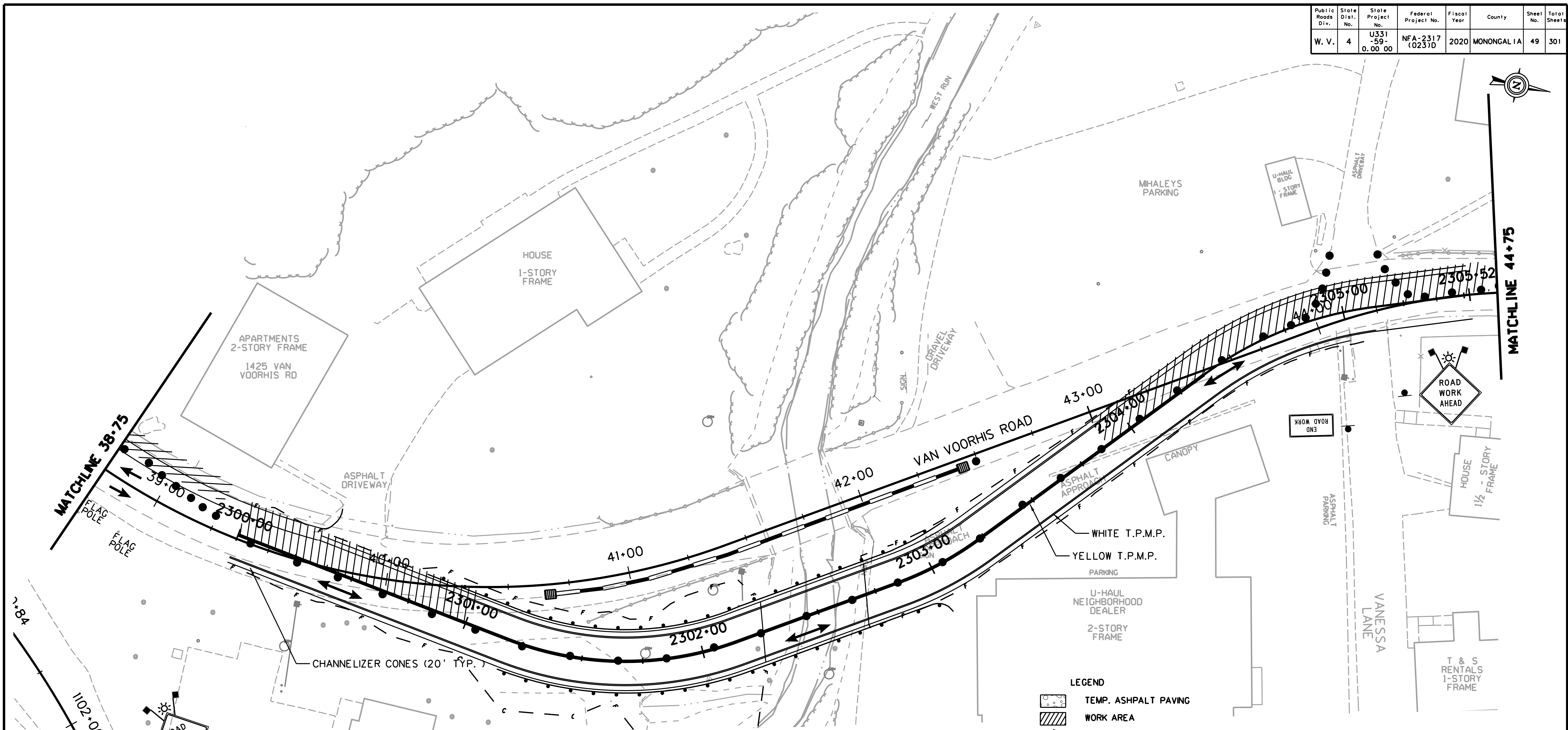
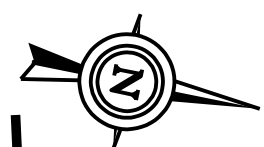
SCALE : 0 20 ft.



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

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PHASE 1

ADVANCE WARNING DEVICES ARE IMPLEMENTED. TEMPORARY PAVEMENT IS INSTALLED TO ACCOMMODATE CONSTRUCTION IN SUBSEQUENT PHASES, FROM STA. 18+50 TO STA. 22+90 ALONG VAN VOORHIS ROAD, ALONG THE SOUTH SIDE OF THE WEDGEWOOD DRIVE APPROACH, AND ALONG THE NORTH SIDE OF THE HIRSHMAN VILLAGE APPROACH. TEMPORARY STONE IS INSTALLED TO ACCOMMODATE CONSTRUCTION IN SUBSEQUENT PHASES, ALONG THE NORTH SIDE OF THE HIRSHMAN VILLAGE APPROACH AT STA. 21+75, AND ALONG THE NORTH SIDE OF THE GOLDEN LIVING APPROACH AT STA. 23+50.

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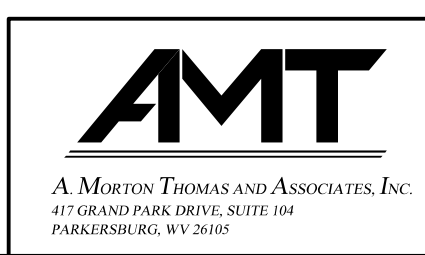
- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
 - T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
 - CHANNELIZER CONES
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE B LIGHT
 - FLAG, ORANGE, 18"x18" MIN.
 - YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
 - TYPE III BARRICADE
 - ARROW PANEL

CASE A4, A6, A9 OR B1 WILL BE UTILIZED IN THIS PHASE.

SCALE : 0 20 ft.

TTCP - 14

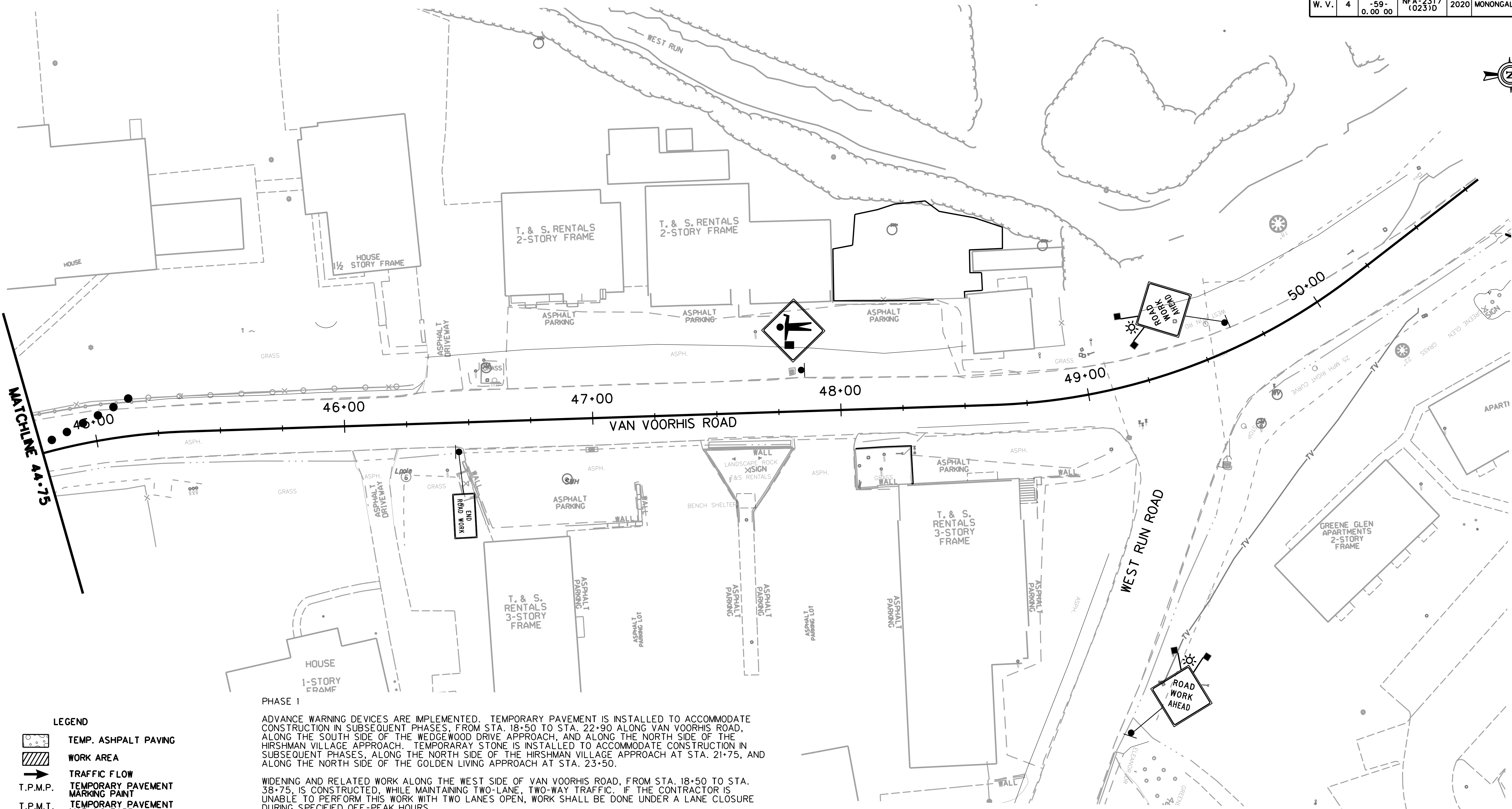
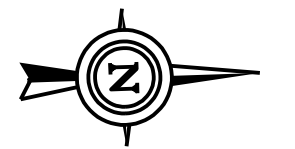
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE 1C



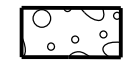








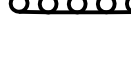




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LEGEND

-  TEMP. ASPHALT PAVING
-  WORK AREA
-  TRAFFIC FLOW
-  T.P.M.P.
-  T.P.M.T.
-  TEMPORARY BARRIER
-  TEMPORARY IMPACT ATTENUATOR
-  CHANNELIZER CONES
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TYPE B LIGHT
-  FLAG, ORANGE, 18"x18" MIN.
-  YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
-  TYPE II BARRICADE
-  ARROW PANEL

PHASE 1

ADVANCE WARNING DEVICES ARE IMPLEMENTED. TEMPORARY PAVEMENT IS INSTALLED TO ACCOMMODATE CONSTRUCTION IN SUBSEQUENT PHASES, FROM STA. 18+50 TO STA. 22+90 ALONG VAN VOORHIS ROAD, ALONG THE SOUTH SIDE OF THE WEDGEWOOD DRIVE APPROACH, AND ALONG THE NORTH SIDE OF THE HIRSHMAN VILLAGE APPROACH. TEMPORARY STONE IS INSTALLED TO ACCOMMODATE CONSTRUCTION IN SUBSEQUENT PHASES, ALONG THE NORTH SIDE OF THE HIRSHMAN VILLAGE APPROACH AT STA. 21+75, AND ALONG THE NORTH SIDE OF THE GOLDEN LIVING APPROACH AT STA. 23+50.

WIDENING AND RELATED WORK ALONG THE WEST SIDE OF VAN VOORHIS ROAD, FROM STA. 18+50 TO STA. 38+75, IS CONSTRUCTED, WHILE MAINTAINING TWO-LANE, TWO-WAY TRAFFIC. IF THE CONTRACTOR IS UNABLE TO PERFORM THIS WORK WITH TWO LANES OPEN, WORK SHALL BE DONE UNDER A LANE CLOSURE DURING SPECIFIED OFF-PEAK HOURS.

CROSS PIPES ON VAN VOORHIS ROAD, WITHIN THE SECTION FROM STA. 17+50 TO STA. 37+25, ARE INSTALLED AT THIS TIME.

THE SOIL NAIL RETAINING WALL TO BE INSTALLED ALONG THE WEST SIDE OF VAN VOORHIS ROAD, FROM STA. 27+40 TO STA. 28+10, WILL BE INSTALLED AT THIS TIME.

ONE-LANE TRAFFIC CONTROL FOR CROSS PIPE AND SOIL NAIL INSTALLATION WILL BE PERMITTED DURING SPECIFIED OFF-PEAK HOURS.

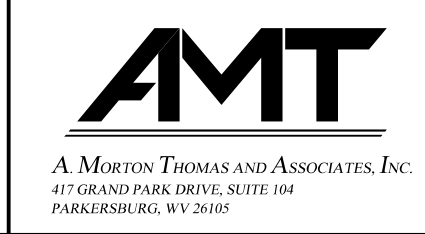
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CASE A4, A9 OR B1 WILL BE UTILIZED IN THIS PHASE.

TTCP - 15

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**TEMPORARY TRAFFIC CONTROL
PLANS SUB-PHASE 1C**

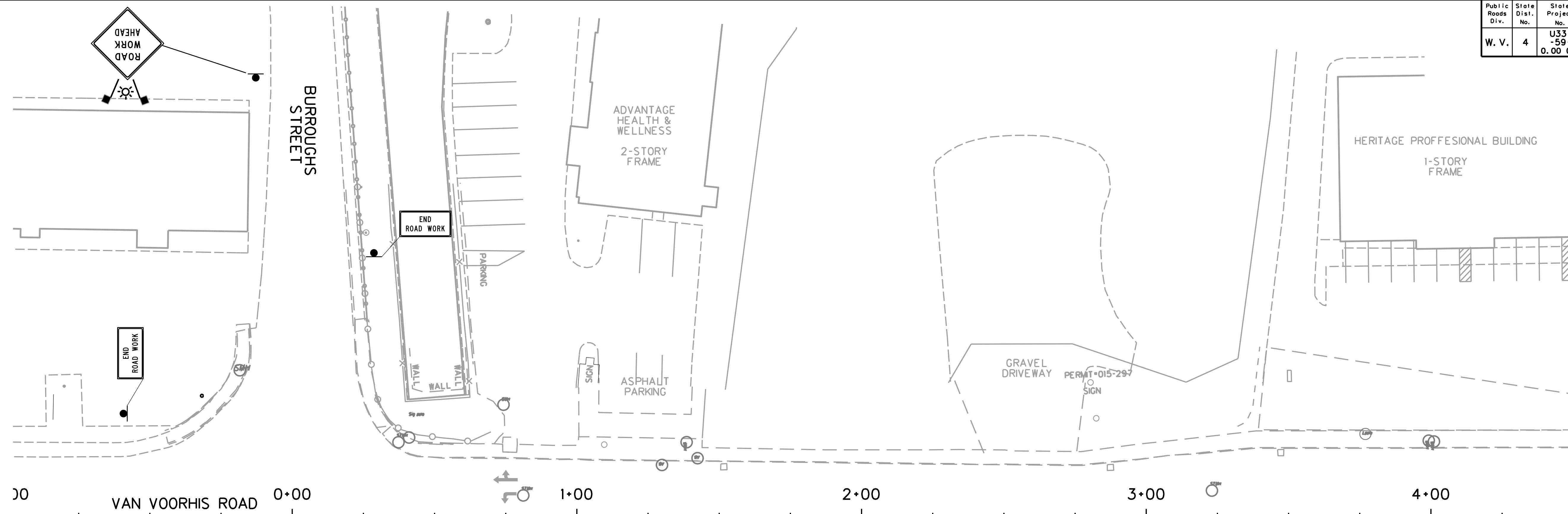
SCALE : 0 20 ft.



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SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
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LEGEND

- TEMP. ASPHALT PAVING
- WORK AREA
- TRAFFIC FLOW
- T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
- T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
- TEMPORARY BARRIER
- TEMPORARY IMPACT ATTENUATOR
- CHANNELIZER CONES
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE B LIGHT
- FLAG, ORANGE, 18" x 18" MIN.
- YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
- TYPE III BARRICADE
- ARROW PANEL

PHASE 2

THE HORIZONTAL AND VERTICAL CURVE IMPROVEMENT OF VAN VOORHIS ROAD IS STARTED IN THE WEDGEWOOD DRIVE AREA, FROM STA. 18+50 TO STA. 23+00. TRAFFIC ON HIRSHMAN VILLAGE IS ROUTED TO THE TEMPORARY PAVEMENT ON THE NORTH SIDE OF THE APPROACH.

THE VAN VOORHIS ROAD GEOMETRIC IMPROVEMENT IS CONSTRUCTED TO THE NORTH AND SOUTH OF THE TEMPORARY HIRSHMAN APPROACH, WITH HIRSHMAN VILLAGE CONTINUING TO MAINTAIN ACCESS TO EXISTING VAN VOORHIS ROAD.

CONSTRUCTION OF THE RELOCATED, PERMANENT HIRSHMAN VILLAGE APPROACH IS PERFORMED IN THE AREA SOUTH OF THE EXISTING HIRSHMAN ALIGNMENT, WHILE HIRSHMAN TRAFFIC IS MAINTAINED ON THE TEMPORARY GRAVEL SECTION TO THE NORTH.

THE WORK ALONG THE EAST SIDE OF VAN VOORHIS ROAD, FROM STA. 23+50 TO STA. 37+50, IS CONSTRUCTED, INCLUDING THE PILING WALL FROM STA. 24+35.7 TO STA. 27+29.8.

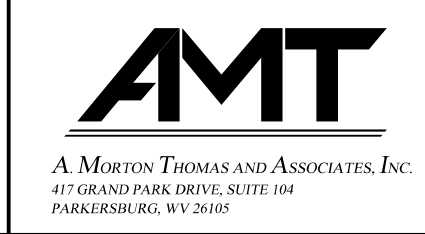
CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN BEGINS.

CASE A4, A9, OR B1 WILL BE UTILIZED IN THIS PHASE.

TTCP-16

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE 2

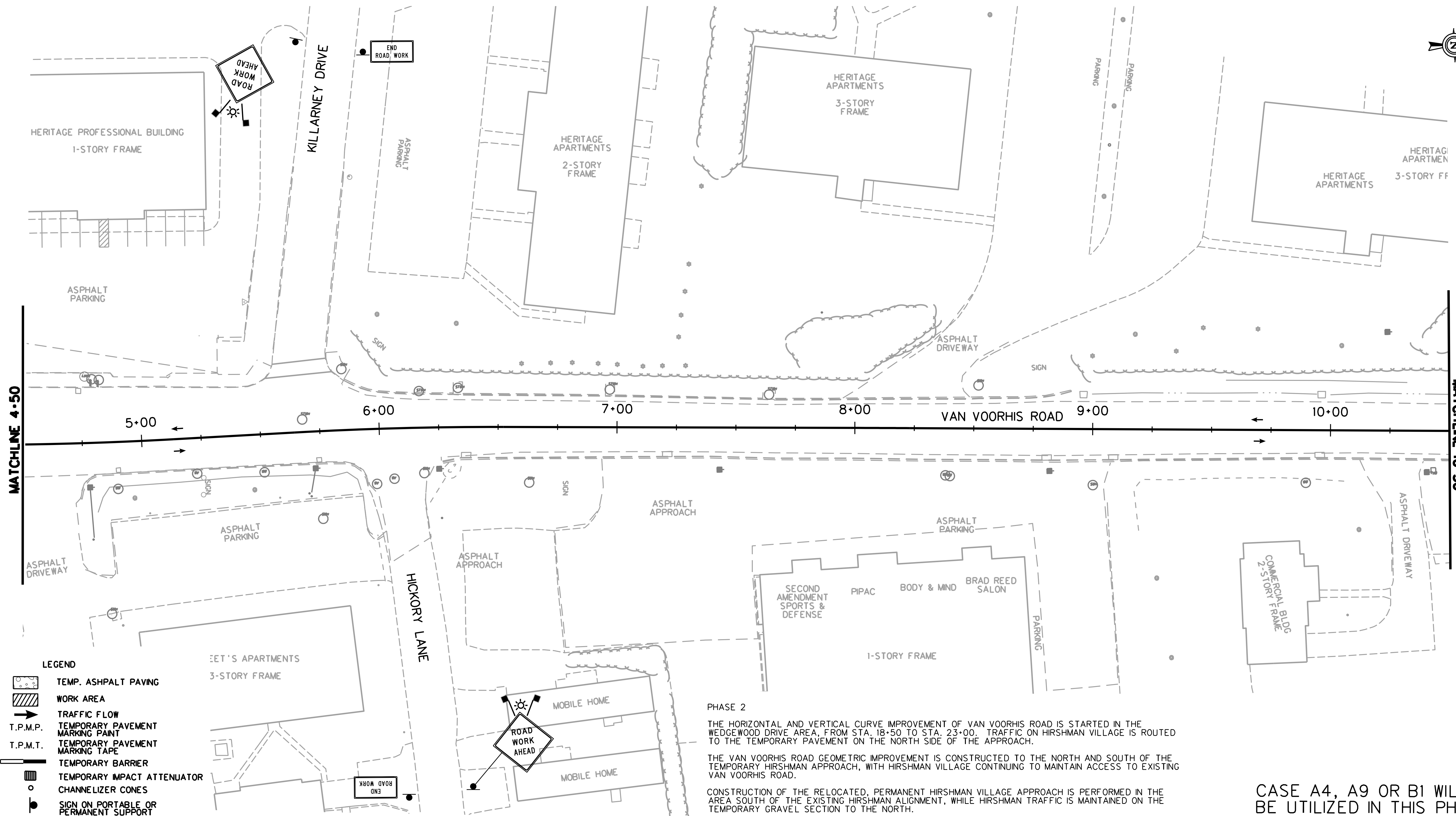
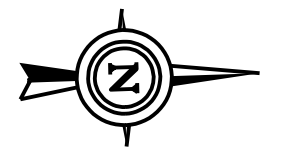
SCALE : 0 20 ft.



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MATCHLINE 4+50

MATCHLINE 10+50

- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - T.P.M.P.
 - T.P.M.T.
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
 - CHANNELIZER CONES
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE B LIGHT
 - FLAG, ORANGE, 18"x18" MIN.
 - YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
 - TYPE III BARRICADE
 - ARROW PANEL

PHASE 2

THE HORIZONTAL AND VERTICAL CURVE IMPROVEMENT OF VAN VOORHIS ROAD IS STARTED IN THE WEDGEWOOD DRIVE AREA, FROM STA. 18+50 TO STA. 23+00. TRAFFIC ON HIRSHMAN VILLAGE IS ROUTED TO THE TEMPORARY PAVEMENT ON THE NORTH SIDE OF THE APPROACH.

THE VAN VOORHIS ROAD GEOMETRIC IMPROVEMENT IS CONSTRUCTED TO THE NORTH AND SOUTH OF THE TEMPORARY HIRSHMAN APPROACH, WITH HIRSHMAN VILLAGE CONTINUING TO MAINTAIN ACCESS TO EXISTING VAN VOORHIS ROAD.

CONSTRUCTION OF THE RELOCATED, PERMANENT HIRSHMAN VILLAGE APPROACH IS PERFORMED IN THE AREA SOUTH OF THE EXISTING HIRSHMAN ALIGNMENT, WHILE HIRSHMAN TRAFFIC IS MAINTAINED ON THE TEMPORARY GRAVEL SECTION TO THE NORTH.

THE WORK ALONG THE EAST SIDE OF VAN VOORHIS ROAD, FROM STA. 23+50 TO STA. 37+50, IS CONSTRUCTED, INCLUDING THE PILING WALL FROM STA. 24+35.7 TO STA. 27+29.8.

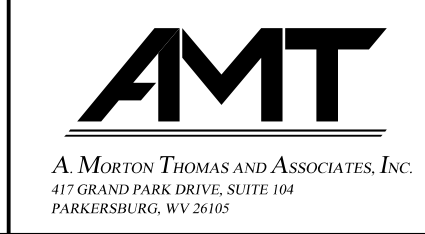
CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN BEGINS.

CASE A4, A9 OR B1 WILL BE UTILIZED IN THIS PHASE.

TTCP-17

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE 2

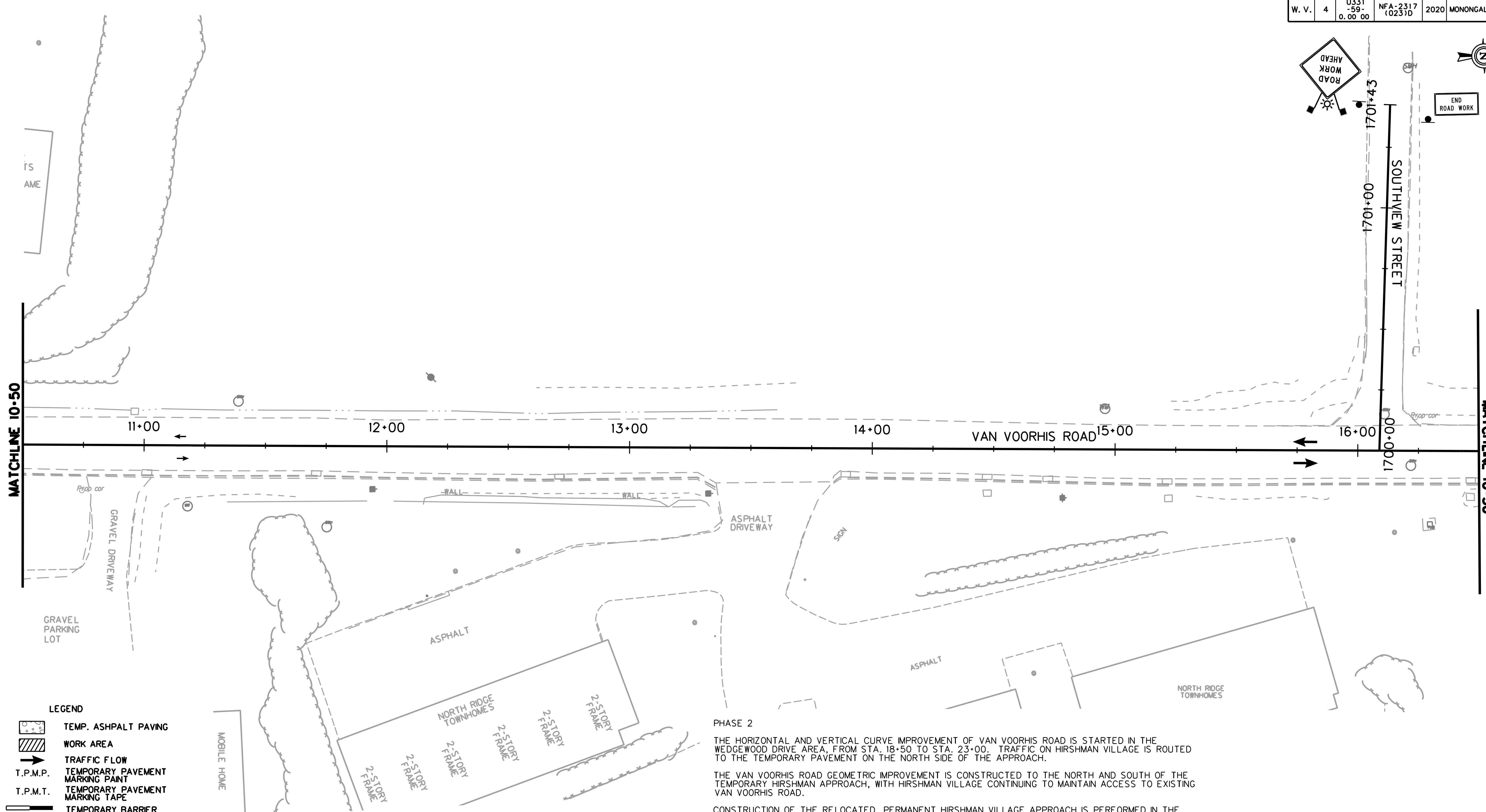
SCALE : 0 20 ft.



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- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
 - T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
 - CHANNELIZER CONES
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE B LIGHT
 - FLAG, ORANGE, 18"x18" MIN.
 - YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
 - TYPE III BARRICADE
 - ARROW PANEL

PHASE 2

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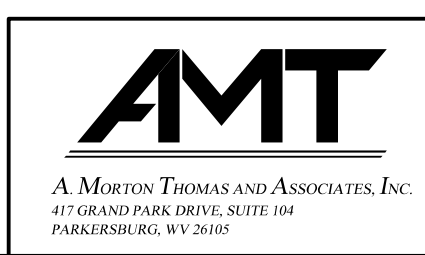
CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN BEGINS.

CASE A4, A9, OR B1 WILL BE UTILIZED IN THIS PHASE.

TTCP-18

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE 2

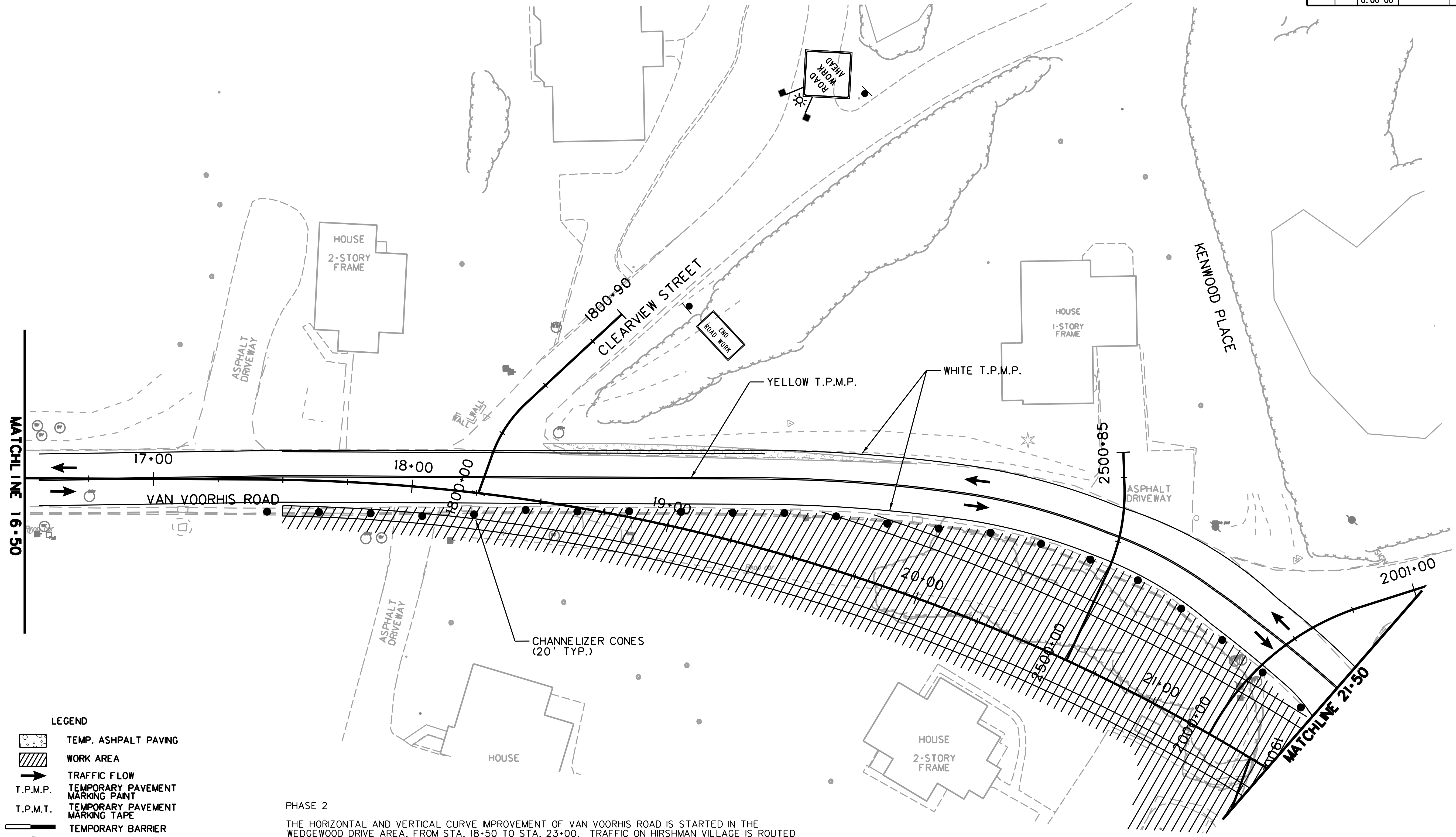
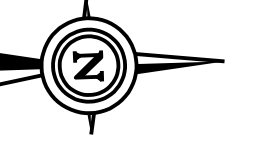
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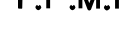










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LEGEND

-  TEMP. ASPHALT PAVING
-  WORK AREA
-  TRAFFIC FLOW
-  T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
-  T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
-  TEMPORARY BARRIER
-  TEMPORARY IMPACT ATTENUATOR
-  CHANNELIZER CONES
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TYPE B LIGHT
-  FLAG, ORANGE, 18" x 18" MN.
-  YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
-  TYPE II BARRICADE
-  ARROW PANEL

PHASE 2

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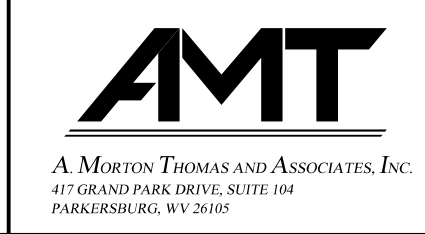
CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN BEGINS.

CASE A4, A9, OR B1 WILL BE UTILIZED IN THIS PHASE.

TTCP-19

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE 2

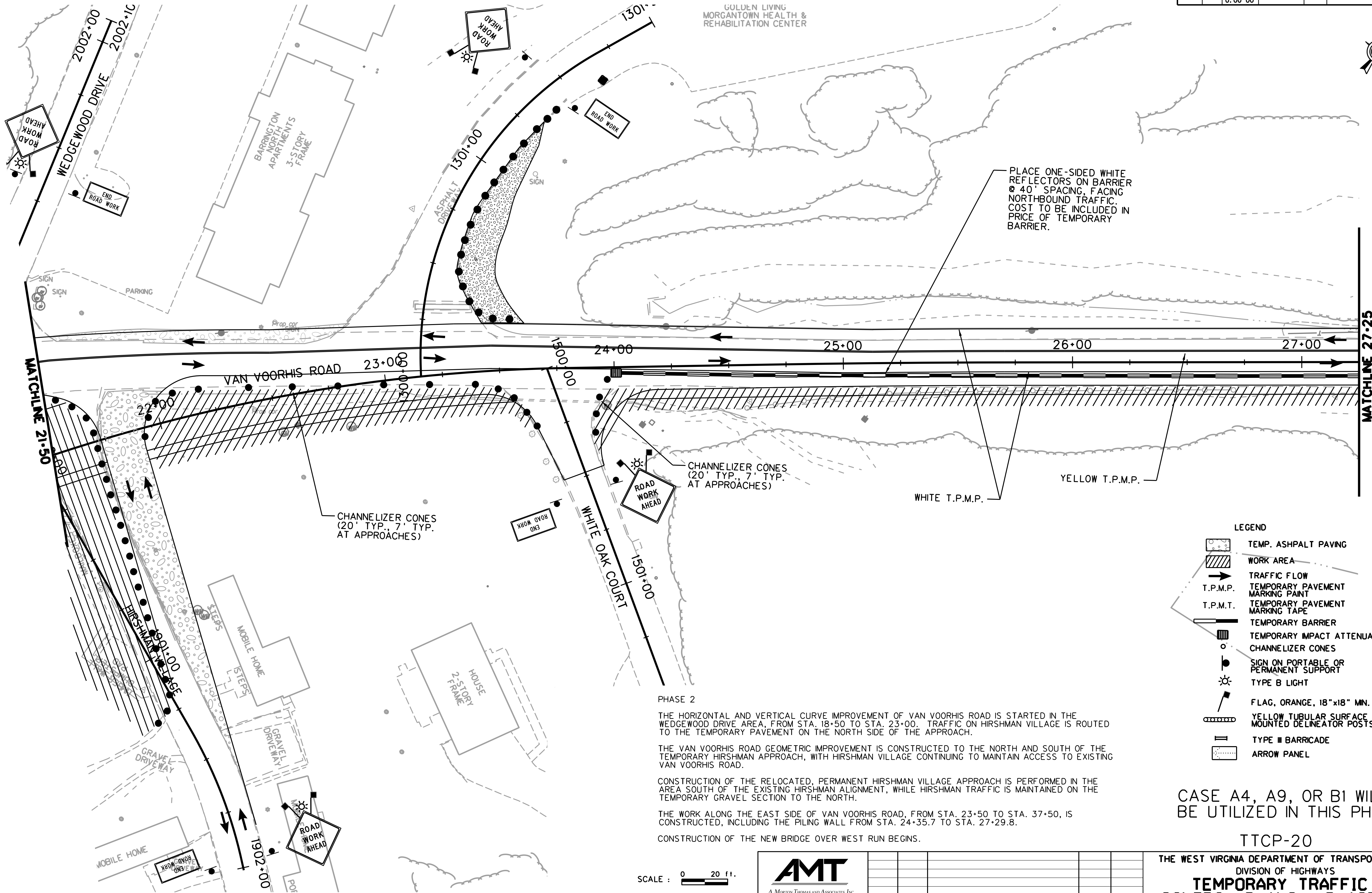
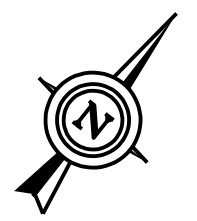
SCALE : 0 20 ft.



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PLACE ONE-SIDED WHITE REFLECTORS ON BARRIER @ 40' SPACING, FACING NORTHBOUND TRAFFIC. COST TO BE INCLUDED IN PRICE OF TEMPORARY BARRIER.

CHANNELIZER CONES (20' TYP., 7' TYP. AT APPROACHES)

CHANNELIZER CONES (20' TYP., 7' TYP. AT APPROACHES)

WHITE T.P.M.P.

YELLOW T.P.M.P.

- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - TEMPORARY PAVEMENT MARKING PAINT
 - TEMPORARY PAVEMENT MARKING TAPE
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
 - CHANNELIZER CONES
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE B LIGHT
 - FLAG, ORANGE, 18" x 18" MN.
 - YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
 - TYPE III BARRICADE
 - ARROW PANEL

PHASE 2

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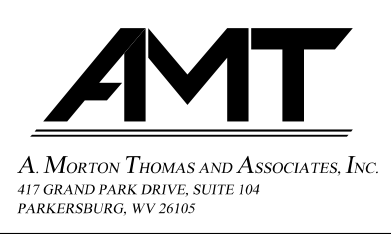
CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN BEGINS.

CASE A4, A9, OR B1 WILL BE UTILIZED IN THIS PHASE.

TTCP-20

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE 2

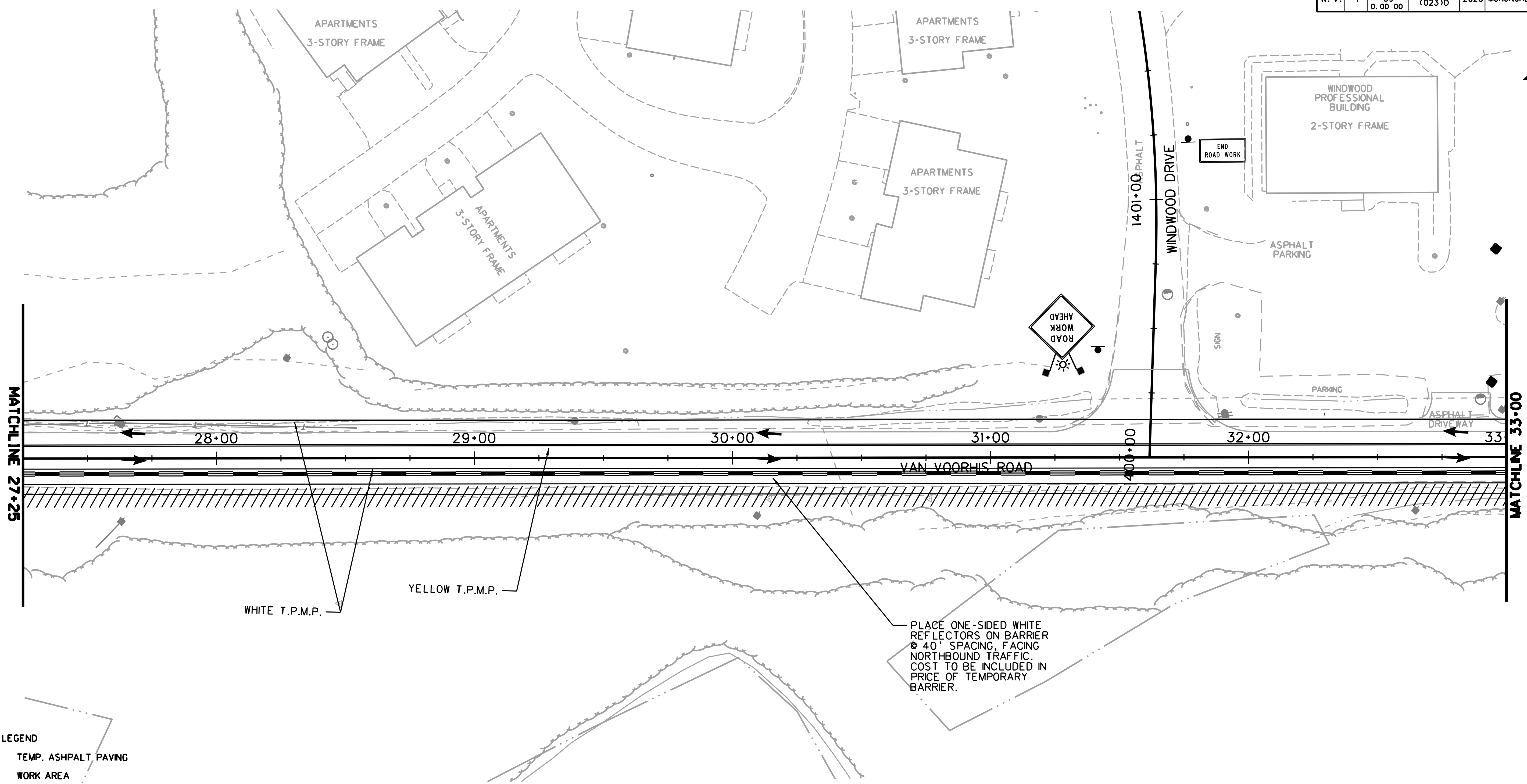
SCALE : 0 20 ft.



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- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
 - T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
 - CHANNELIZER CONES
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 - TYPE III BARRICADE
 - ARROW PANEL

PHASE 2

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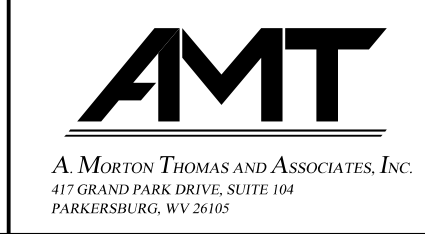
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CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN BEGINS.

SCALE :



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

CASE A4, A9, OR B1 WILL BE UTILIZED IN THIS PHASE.

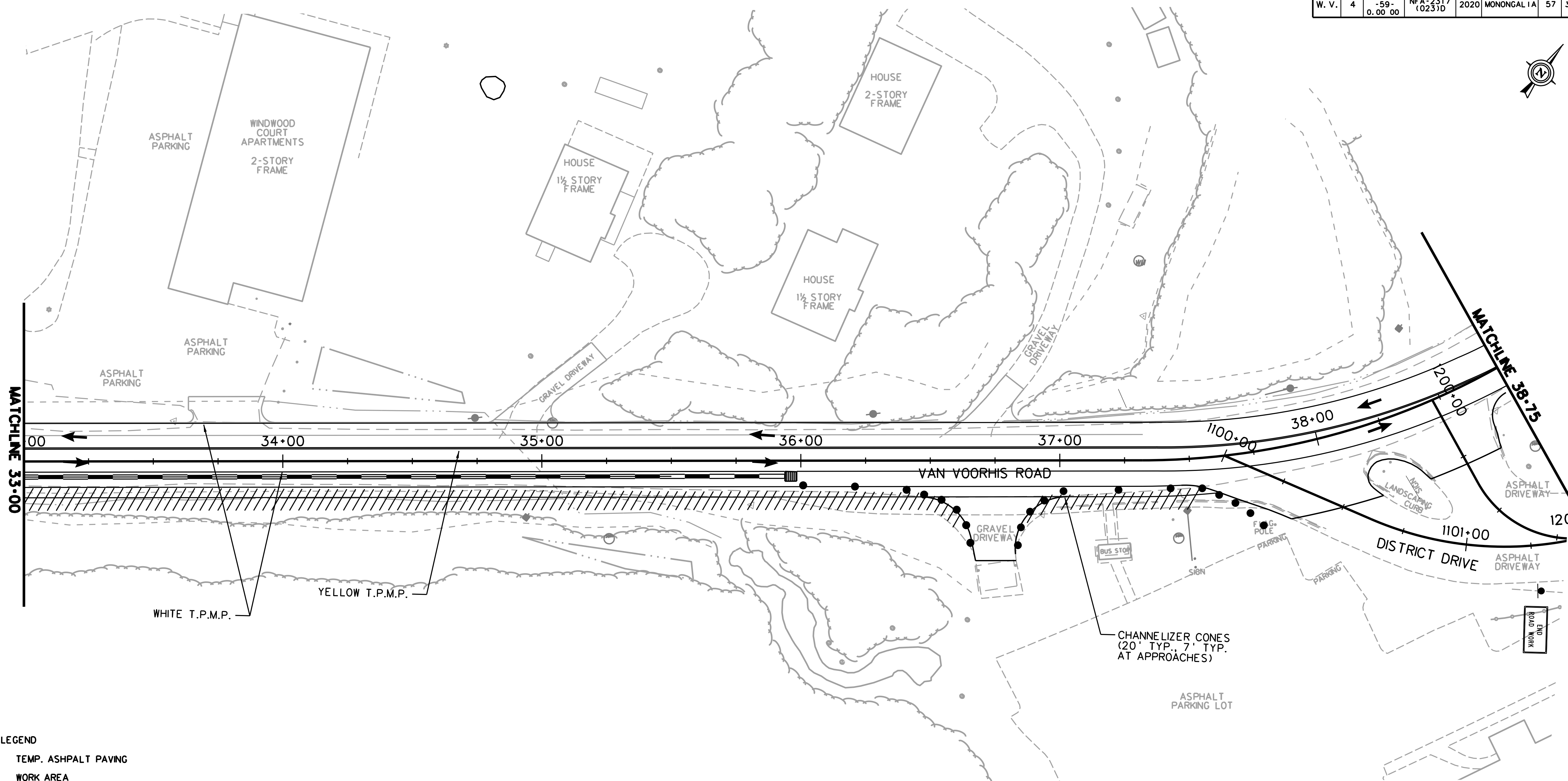
TTCP-21

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

TEMPORARY TRAFFIC CONTROL PLANS - PHASE 2

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- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
 - T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
 - CHANNELIZER CONES
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE B LIGHT
 - FLAG, ORANGE, 18"x18" MIN.
 - YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
 - TYPE III BARRICADE
 - ARROW PANEL

PHASE 2

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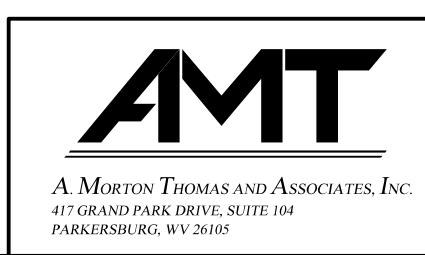
CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN BEGINS.

CASE A4, A9, OR B1 WILL BE UTILIZED IN THIS PHASE.

TTCP-22

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE 2

SCALE : 0 20 ft.

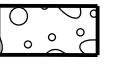









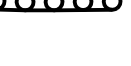
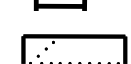
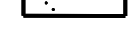



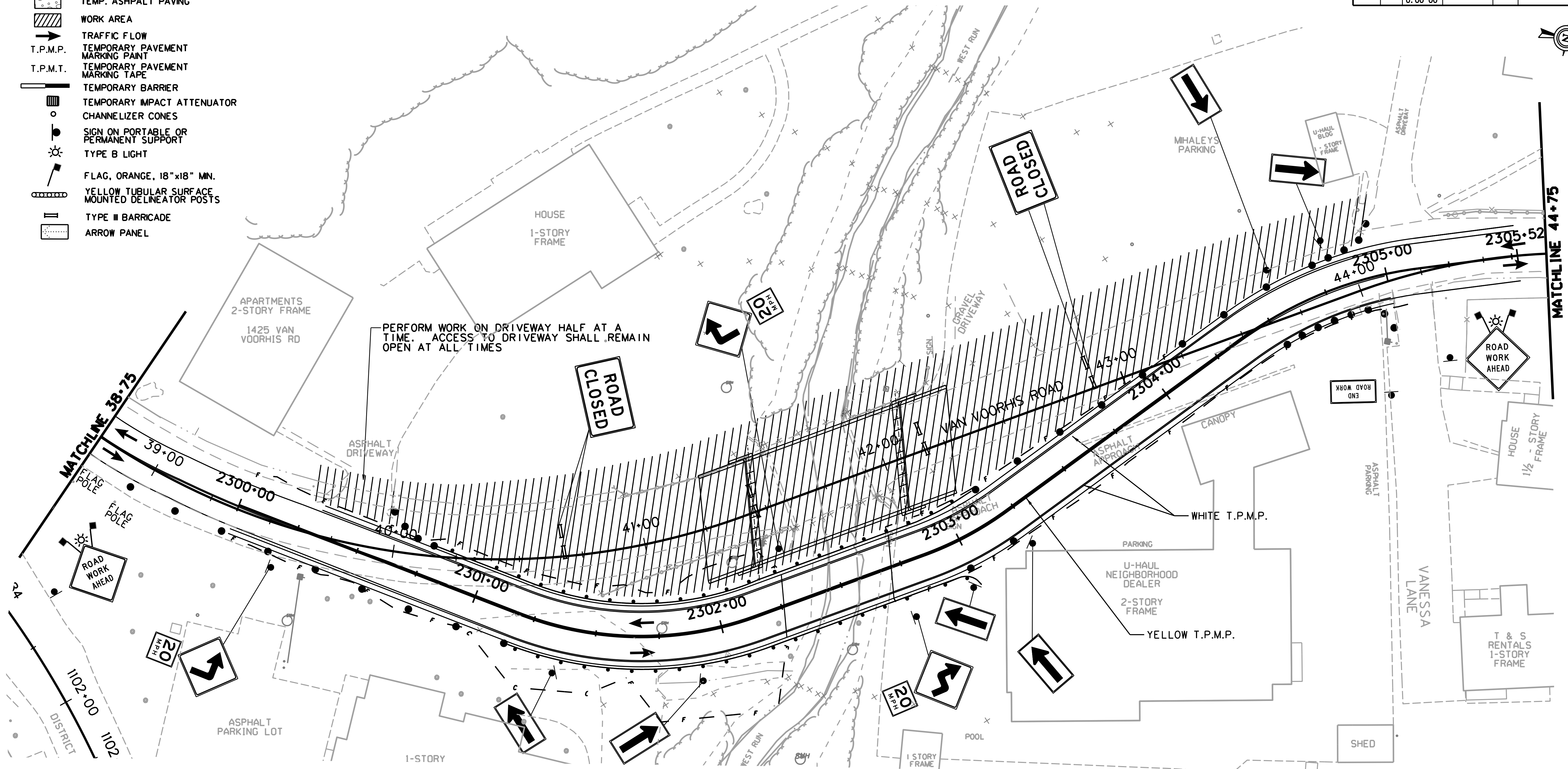
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LEGEND

-  TEMP. ASPHALT PAVING
-  WORK AREA
-  TRAFFIC FLOW
-  T.P.M.P.
-  T.P.M.T.
-  TEMPORARY BARRIER
-  TEMPORARY IMPACT ATTENUATOR
-  CHANNELIZER CONES
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TYPE B LIGHT
-  FLAG, ORANGE, 18" x 18" MIN.
-  YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
-  TYPE III BARRICADE
-  ARROW PANEL



PHASE 2

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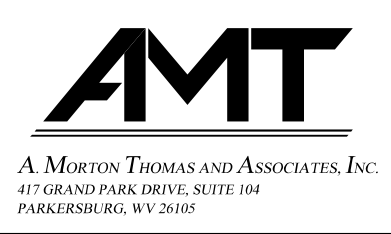
CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN BEGINS.

CASE A12 WILL BE UTILIZED IN THIS PHASE.

TTCP-23

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE 2

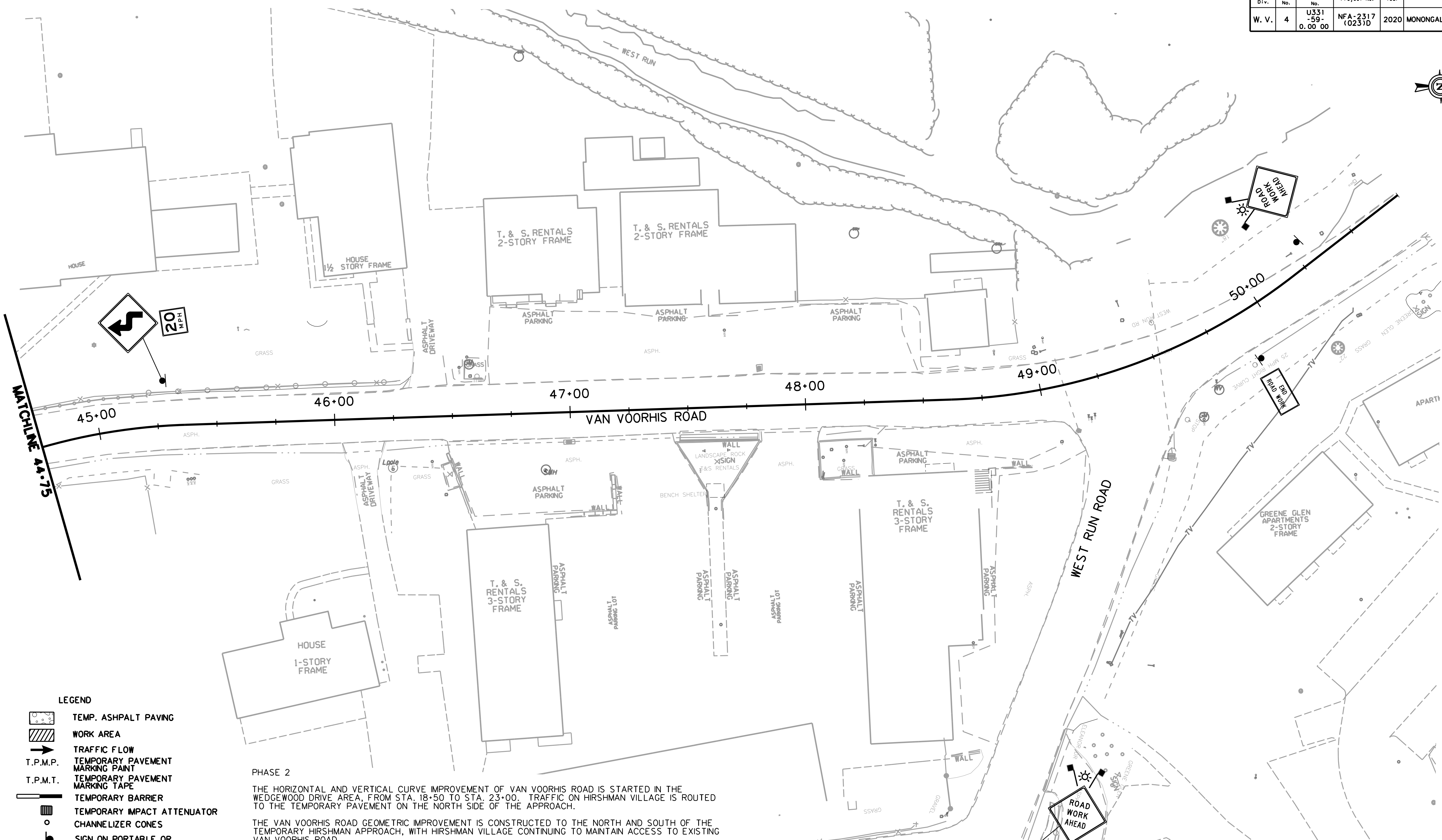
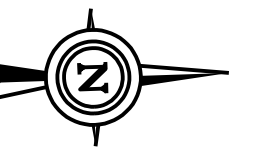
SCALE : 0 20 ft.



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LEGEND

- TEMP. ASPHALT PAVING
- WORK AREA
- TRAFFIC FLOW
- TEMPORARY PAVEMENT MARKING PAINT
- TEMPORARY PAVEMENT MARKING TAPE
- TEMPORARY BARRIER
- TEMPORARY IMPACT ATTENUATOR
- CHANNELIZER CONES
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE B LIGHT
- FLAG, ORANGE, 18"x18" MIN.
- YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
- TYPE II BARRICADE
- ARROW PANEL

PHASE 2

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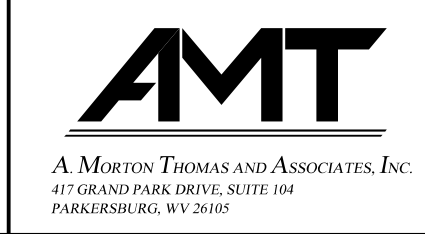
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CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN BEGINS.

CASE A12 WILL BE UTILIZED IN THIS PHASE.
TTCP-24

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE 2

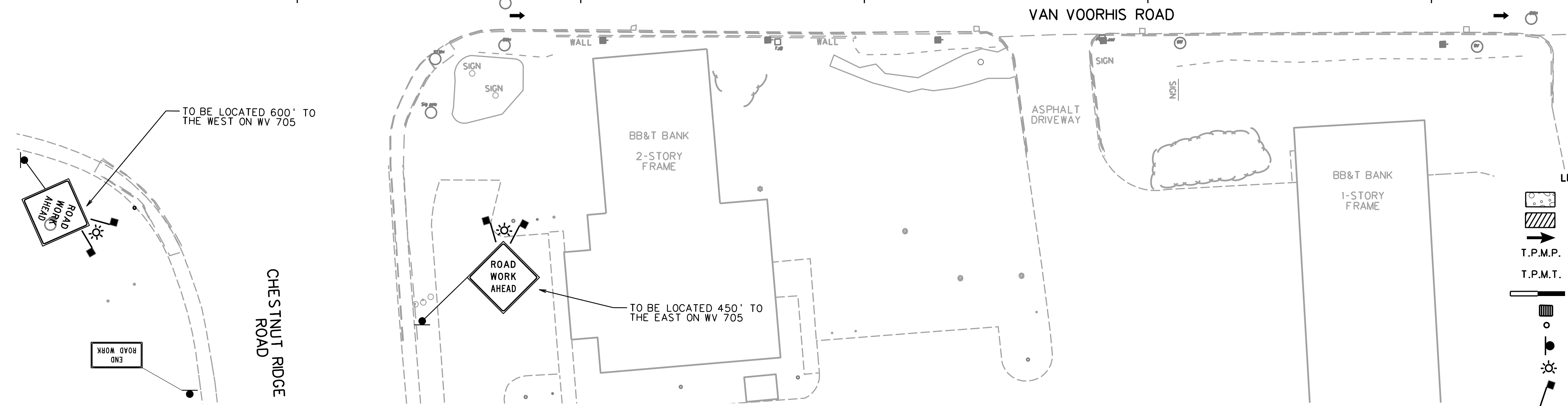
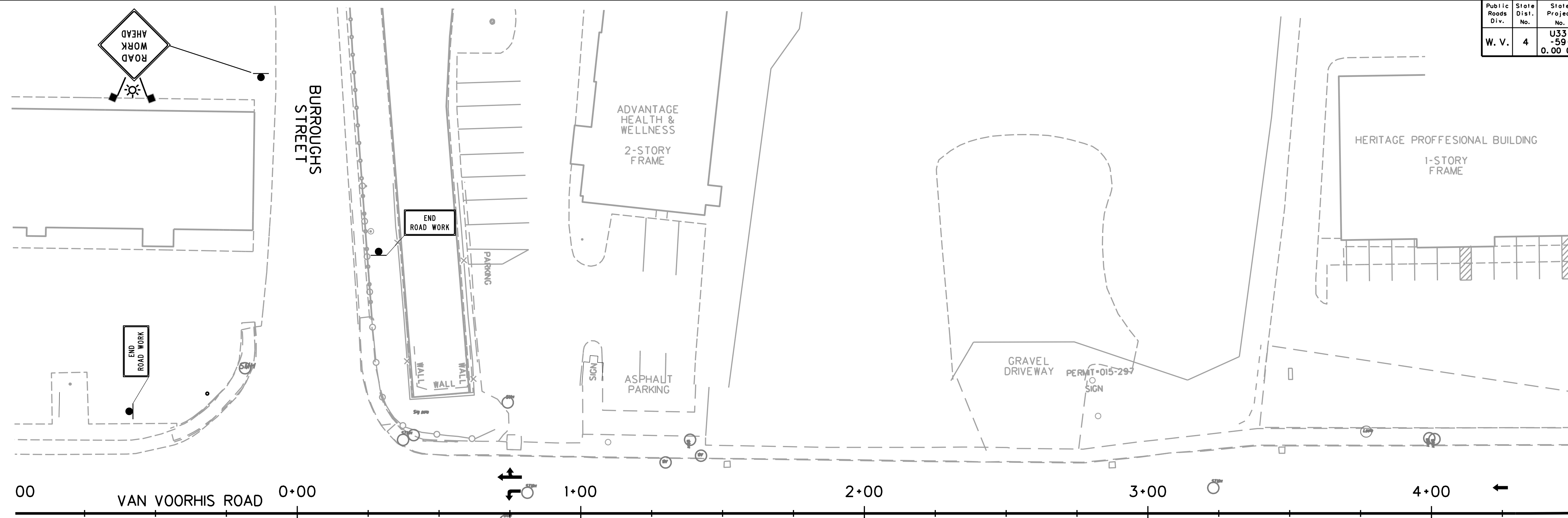
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- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
 - T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
 - CHANNELIZER CONES
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE B LIGHT
 - FLAG, ORANGE, 18" x 18" MIN.
 - YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
 - TYPE III BARRICADE
 - ARROW PANEL

PHASE 3

TIE-IN WORK FOR THE GEOMETRIC IMPROVEMENT ON VAN VOORHIS ROAD, IN THE AREAS SURROUNDING STA. 18+50 AND STA. 23+00, AND TIE-IN WORK FOR THE RELOCATED HIRSHMAN VILLAGE APPROACH, FROM STA. 1900+75 TO STA. 1901+75, OCCURS USING SHORT-TERM ONE LANE TRAFFIC CONTROL. THIS WORK WILL TAKE PLACE ON ONE HALF OF THE ROAD WIDTH AT A TIME, AS SHOWN IN SUB-PHASES 3A THROUGH 3C. THIS WORK SHALL BEGIN DURING OFF PEAK HOURS AND CONTINUE IN A NON-STOP OPERATION UNTIL COMPLETION. THIS WORK OPERATION SHALL BE LIMITED TO THE SEASON BEGINNING AT THE END OF WVU'S SPRING SEMESTER AND ENDING AT THE BEGINNING OF THE FALL SEMESTER. ADDITIONALLY EACH SESSION OF THE CONTINUOUS WORK OPERATION SHALL BE LIMITED TO A 72-HOUR DURATION.

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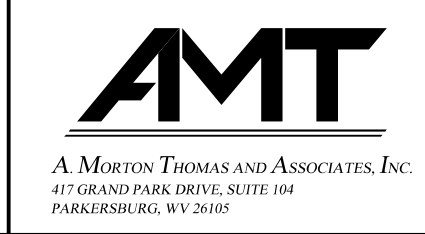
CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN CONTINUES.

CASE A6 WILL BE UTILIZED IN THIS PHASE.

TTCP-25

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE 3

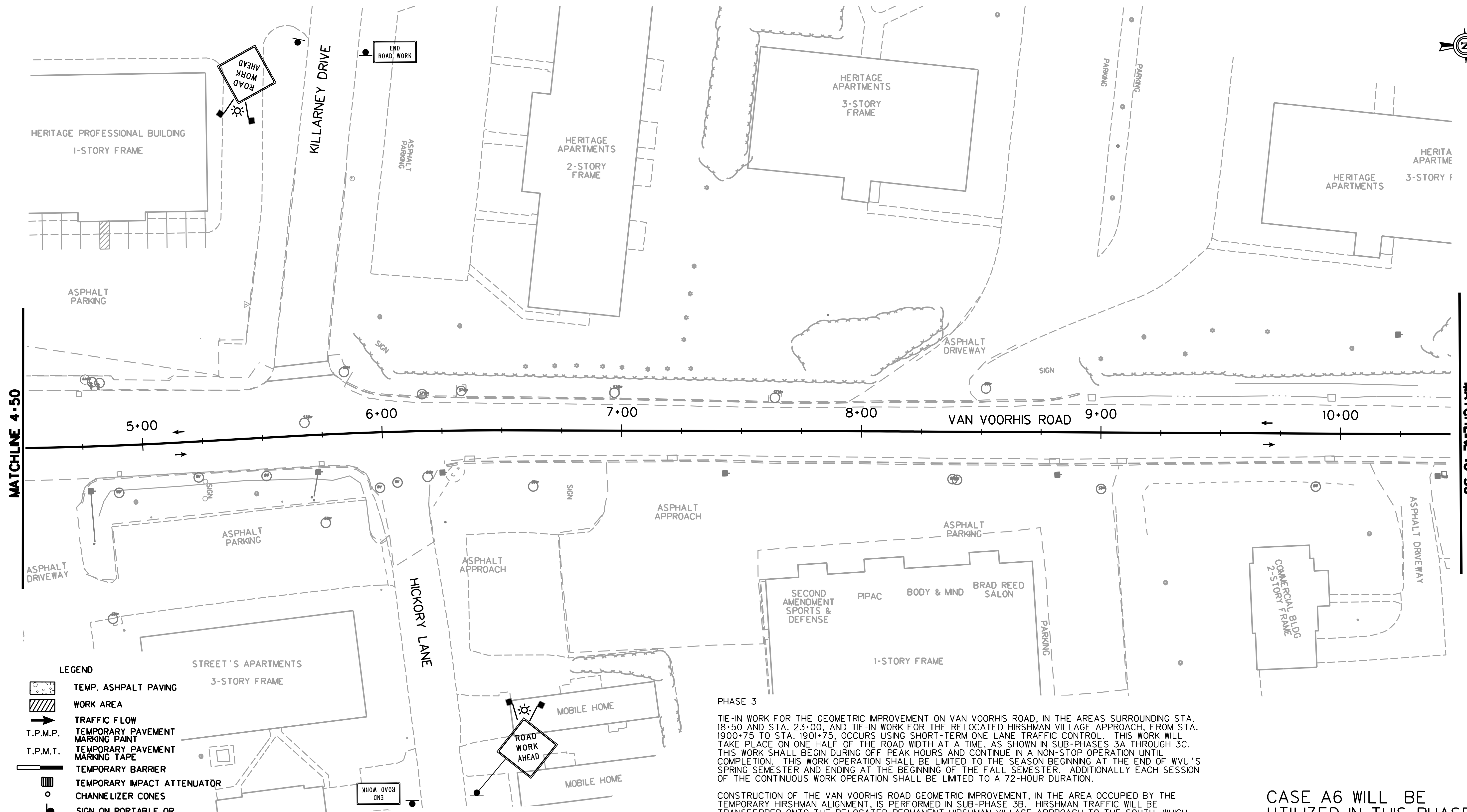
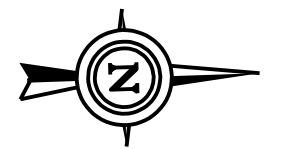
SCALE : 0 20 ft.



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

SUBMITTED 6/29/2020

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W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	61	301



MATCHLINE 4+50

MATCHLINE 10+50

- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
 - T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
 - CHANNELIZER CONES
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE B LIGHT
 - FLAG, ORANGE, 18"x18" MIN.
 - YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
 - TYPE III BARRICADE
 - ARROW PANEL

PHASE 3

TIE-IN WORK FOR THE GEOMETRIC IMPROVEMENT ON VAN VOORHIS ROAD, IN THE AREAS SURROUNDING STA. 18+50 AND STA. 23+00, AND TIE-IN WORK FOR THE RELOCATED HIRSHMAN VILLAGE APPROACH, FROM STA. 1900+75 TO STA. 1901+75, OCCURS USING SHORT-TERM ONE LANE TRAFFIC CONTROL. THIS WORK WILL TAKE PLACE ON ONE HALF OF THE ROAD WIDTH AT A TIME, AS SHOWN IN SUB-PHASES 3A THROUGH 3C. THIS WORK SHALL BEGIN DURING OFF PEAK HOURS AND CONTINUE IN A NON-STOP OPERATION UNTIL COMPLETION. THIS WORK OPERATION SHALL BE LIMITED TO THE SEASON BEGINNING AT THE END OF WVU'S SPRING SEMESTER AND ENDING AT THE BEGINNING OF THE FALL SEMESTER. ADDITIONALLY EACH SESSION OF THE CONTINUOUS WORK OPERATION SHALL BE LIMITED TO A 72-HOUR DURATION.

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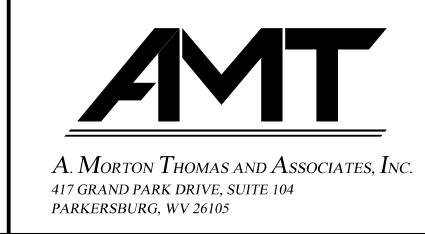
CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN CONTINUES.

CASE A6 WILL BE UTILIZED IN THIS PHASE.

TTCP-26

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE 3

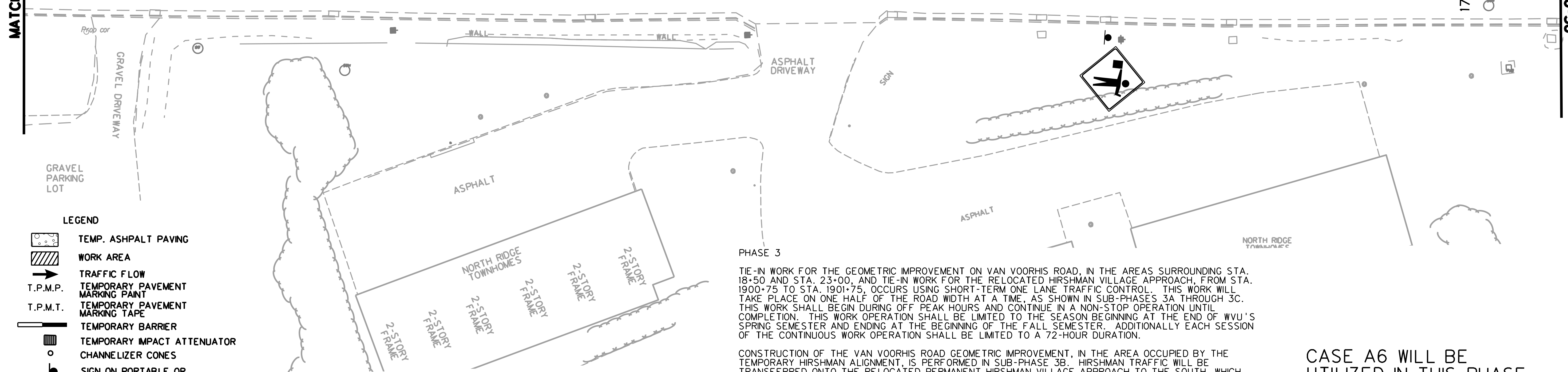
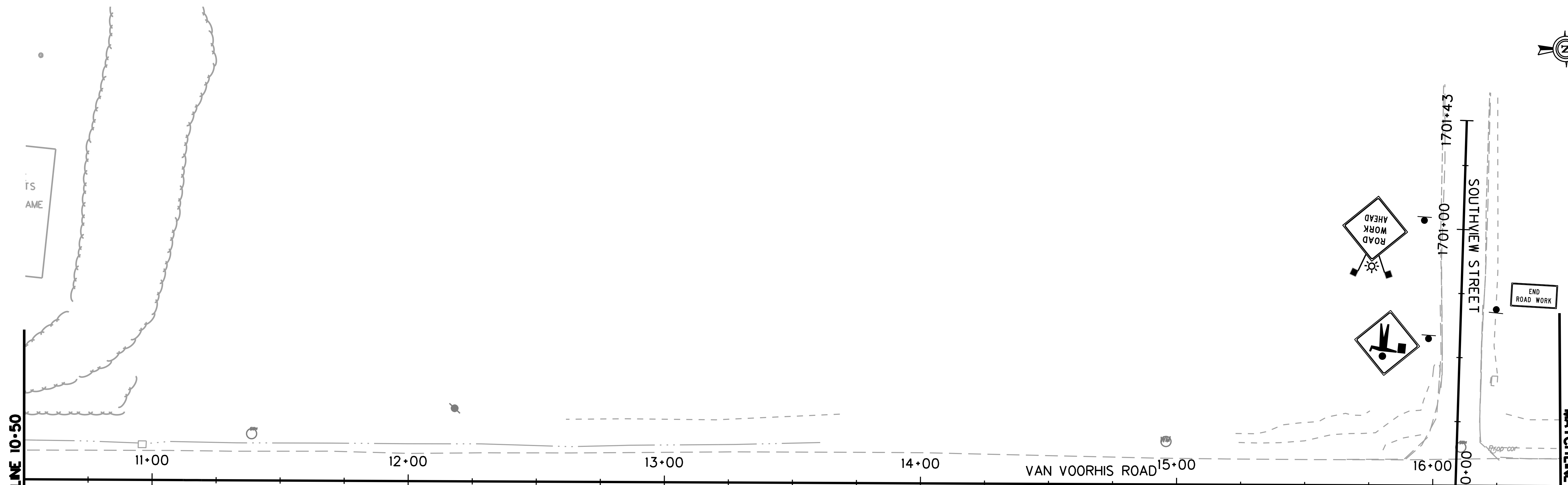
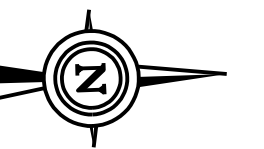
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REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

SUBMITTED 6/29/2020

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W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	62	301



- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
 - T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
 - CHANNELIZER CONES
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE B LIGHT
 - FLAG, ORANGE, 18"x18" MIN.
 - YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
 - TYPE III BARRICADE
 - ARROW PANEL

PHASE 3

TIE-IN WORK FOR THE GEOMETRIC IMPROVEMENT ON VAN VOORHIS ROAD, IN THE AREAS SURROUNDING STA. 18+50 AND STA. 23+00, AND TIE-IN WORK FOR THE RELOCATED HIRSHMAN VILLAGE APPROACH, FROM STA. 1900+75 TO STA. 1901+75, OCCURS USING SHORT-TERM ONE LANE TRAFFIC CONTROL. THIS WORK WILL TAKE PLACE ON ONE HALF OF THE ROAD WIDTH AT A TIME, AS SHOWN IN SUB-PHASES 3A THROUGH 3C. THIS WORK SHALL BEGIN DURING OFF PEAK HOURS AND CONTINUE IN A NON-STOP OPERATION UNTIL COMPLETION. THIS WORK OPERATION SHALL BE LIMITED TO THE SEASON BEGINNING AT THE END OF WVU'S SPRING SEMESTER AND ENDING AT THE BEGINNING OF THE FALL SEMESTER. ADDITIONALLY EACH SESSION OF THE CONTINUOUS WORK OPERATION SHALL BE LIMITED TO A 72-HOUR DURATION.

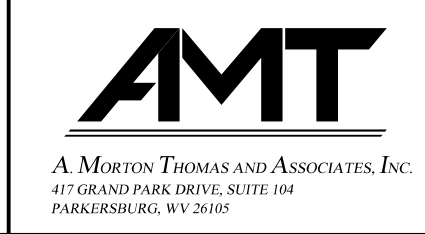
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CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN CONTINUES.

CASE A6 WILL BE UTILIZED IN THIS PHASE.

SUBMITTED 6/29/2020

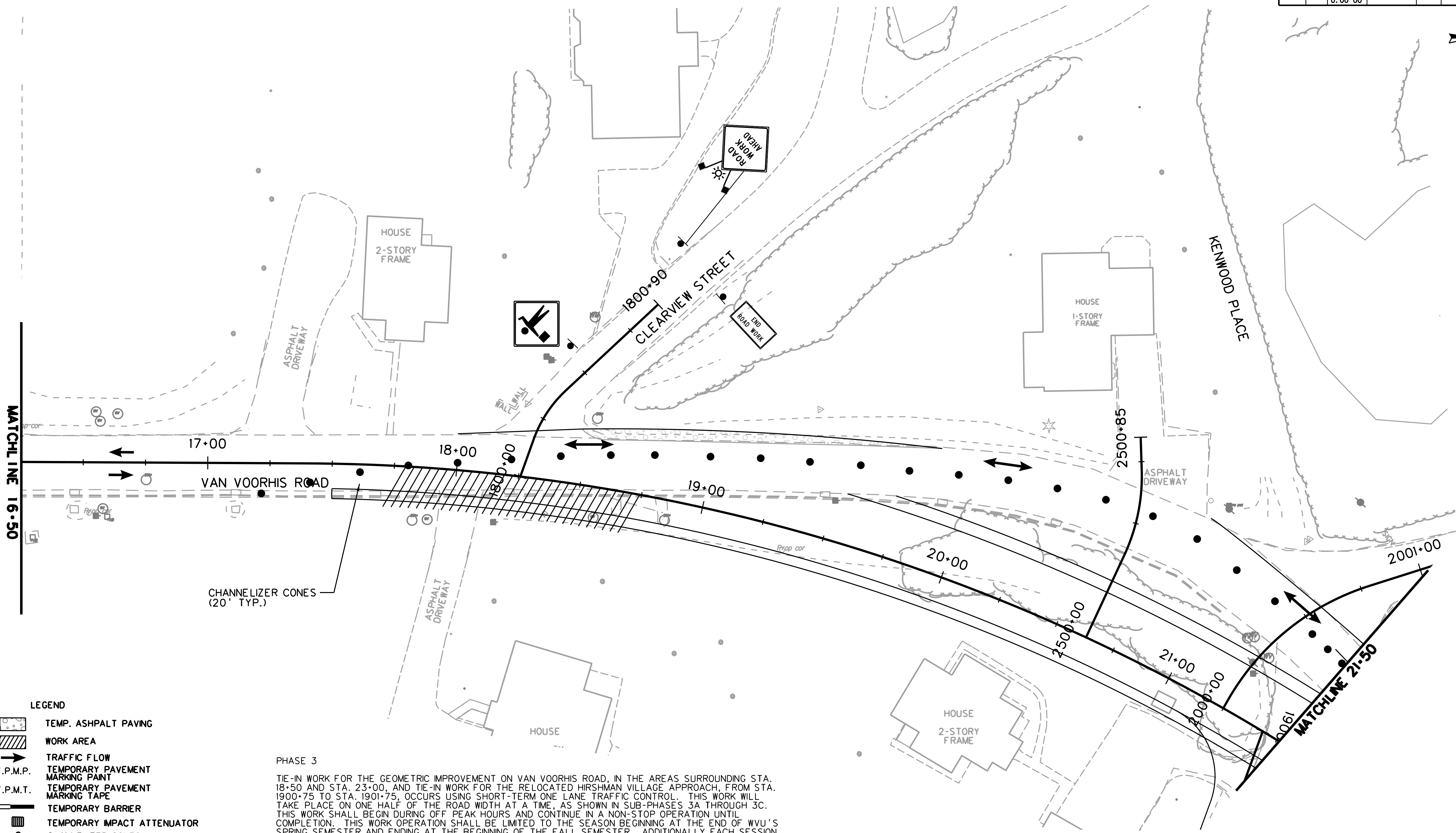
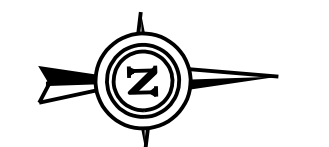
SCALE : 0 20 ft.



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

TTCP-27
 THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE 3

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (023)D	2020	MONONGALIA	63	301



- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - TEMPORARY PAVEMENT MARKING PAINT
 - TEMPORARY PAVEMENT MARKING TAPE
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
 - CHANNELIZER CONES
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE B LIGHT
 - FLAG, ORANGE, 18" x 18" MN.
 - YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
 - TYPE III BARRICADE
 - ARROW PANEL

PHASE 3

TIE-IN WORK FOR THE GEOMETRIC IMPROVEMENT ON VAN VOORHIS ROAD, IN THE AREAS SURROUNDING STA. 18+50 AND STA. 23+00, AND TIE-IN WORK FOR THE RELOCATED HIRSHMAN VILLAGE APPROACH, FROM STA. 1900+75 TO STA. 1901+75, OCCURS USING SHORT-TERM ONE LANE TRAFFIC CONTROL. THIS WORK WILL TAKE PLACE ON ONE HALF OF THE ROAD WIDTH AT A TIME, AS SHOWN IN SUB-PHASES 3A THROUGH 3C. THIS WORK SHALL BEGIN DURING OFF PEAK HOURS AND CONTINUE IN A NON-STOP OPERATION UNTIL COMPLETION. THIS WORK OPERATION SHALL BE LIMITED TO THE SEASON BEGINNING AT THE END OF WVU'S SPRING SEMESTER AND ENDING AT THE BEGINNING OF THE FALL SEMESTER. ADDITIONALLY EACH SESSION OF THE CONTINUOUS WORK OPERATION SHALL BE LIMITED TO A 72-HOUR DURATION.

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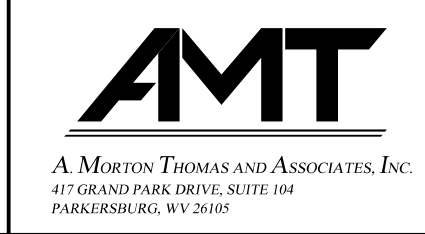
CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN CONTINUES.

CASE A6 WILL BE UTILIZED IN THIS PHASE.

TTCP-28

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS SUB-PHASE 3A

SCALE : 0 20 ft.

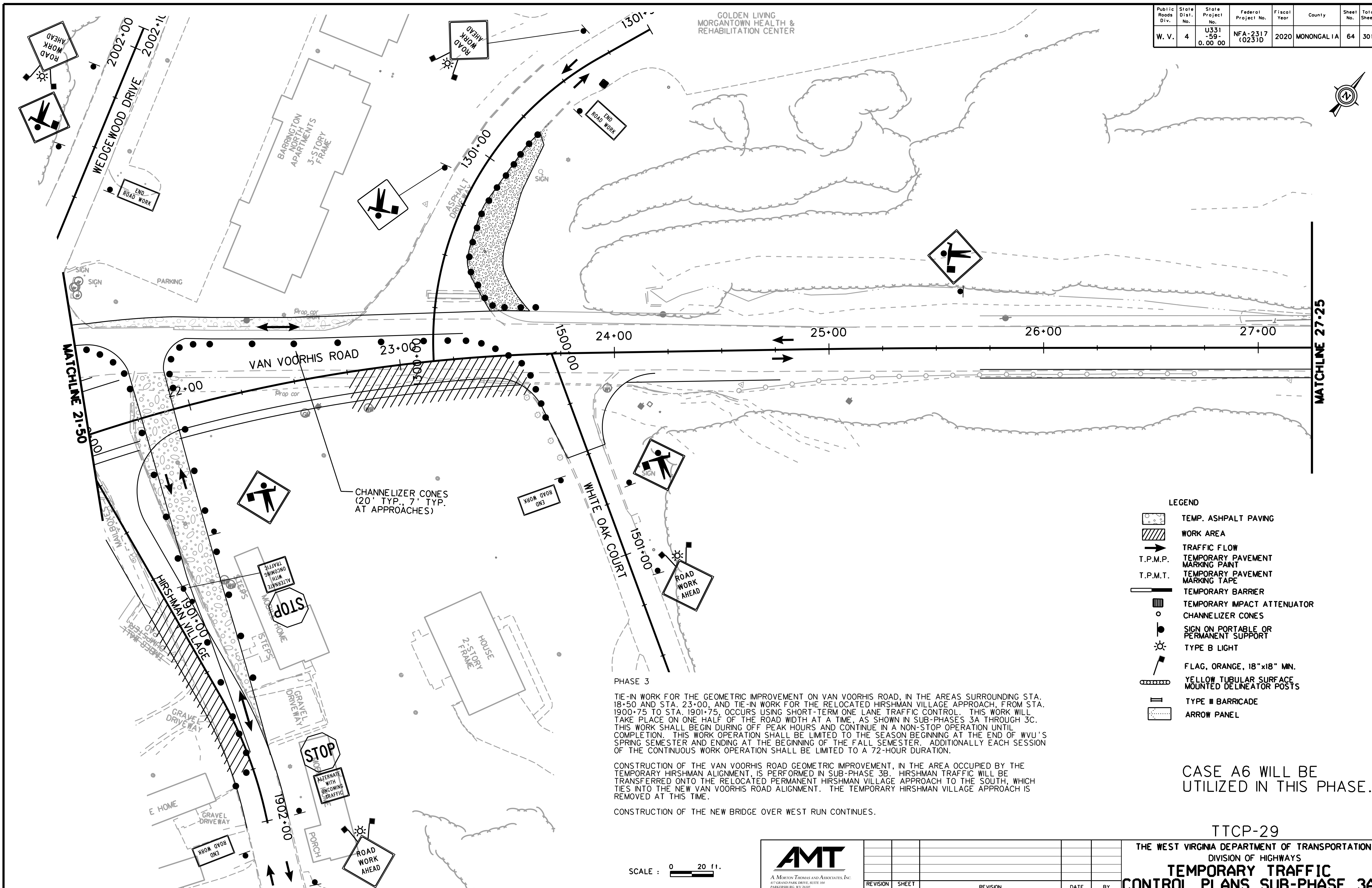


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

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GOLDEN LIVING
MORGANTOWN HEALTH &
REHABILITATION CENTER



- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
 - T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
 - CHANNELIZER CONES
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE B LIGHT
 - FLAG, ORANGE, 18" x 18" MN.
 - YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
 - TYPE III BARRICADE
 - ARROW PANEL

PHASE 3

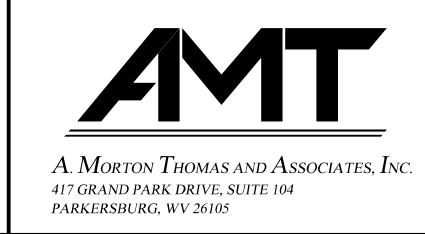
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CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN CONTINUES.

CASE A6 WILL BE UTILIZED IN THIS PHASE.

SCALE : 0 20 ft.

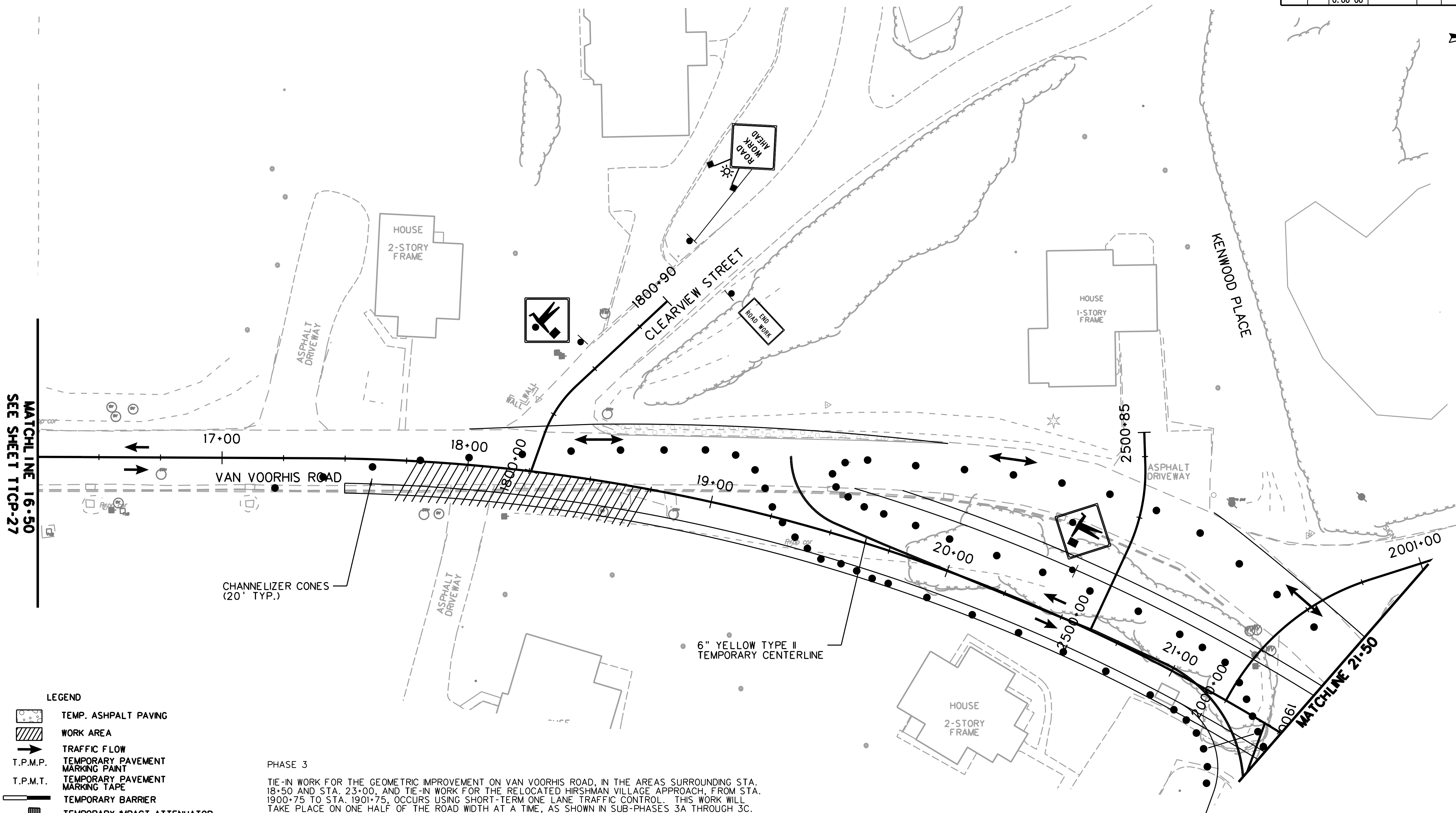
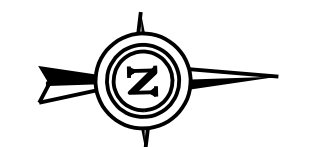


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

TTCP-29
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS SUB-PHASE 3A

SUBMITTED 6/29/2020

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W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	65	301



MATCHLINE 16+50
SEE SHEET TTCP-27

MATCHLINE 21+50

- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - TEMPORARY PAVEMENT MARKING PAINT
 - TEMPORARY PAVEMENT MARKING TAPE
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
 - CHANNELIZER CONES
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE B LIGHT
 - FLAG, ORANGE, 18" x 18" MIN.
 - YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
 - TYPE II BARRICADE
 - ARROW PANEL

PHASE 3

TIE-IN WORK FOR THE GEOMETRIC IMPROVEMENT ON VAN VOORHIS ROAD, IN THE AREAS SURROUNDING STA. 18+50 AND STA. 23+00, AND TIE-IN WORK FOR THE RELOCATED HIRSHMAN VILLAGE APPROACH, FROM STA. 1900+75 TO STA. 1901+75, OCCURS USING SHORT-TERM ONE LANE TRAFFIC CONTROL. THIS WORK WILL TAKE PLACE ON ONE HALF OF THE ROAD WIDTH AT A TIME, AS SHOWN IN SUB-PHASES 3A THROUGH 3C. THIS WORK SHALL BEGIN DURING OFF PEAK HOURS AND CONTINUE IN A NON-STOP OPERATION UNTIL COMPLETION. THIS WORK OPERATION SHALL BE LIMITED TO THE SEASON BEGINNING AT THE END OF WVU'S SPRING SEMESTER AND ENDING AT THE BEGINNING OF THE FALL SEMESTER. ADDITIONALLY EACH SESSION OF THE CONTINUOUS WORK OPERATION SHALL BE LIMITED TO A 72-HOUR DURATION.

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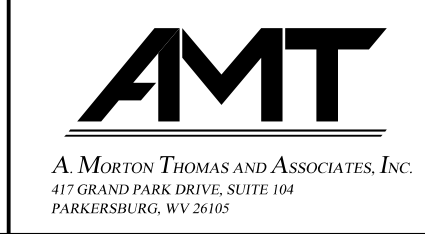
CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN CONTINUES.

CASE A4, A9, B1, OR D5B WILL BE UTILIZED IN THIS PHASE.

TTCP-30

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS SUB-PHASE 3B

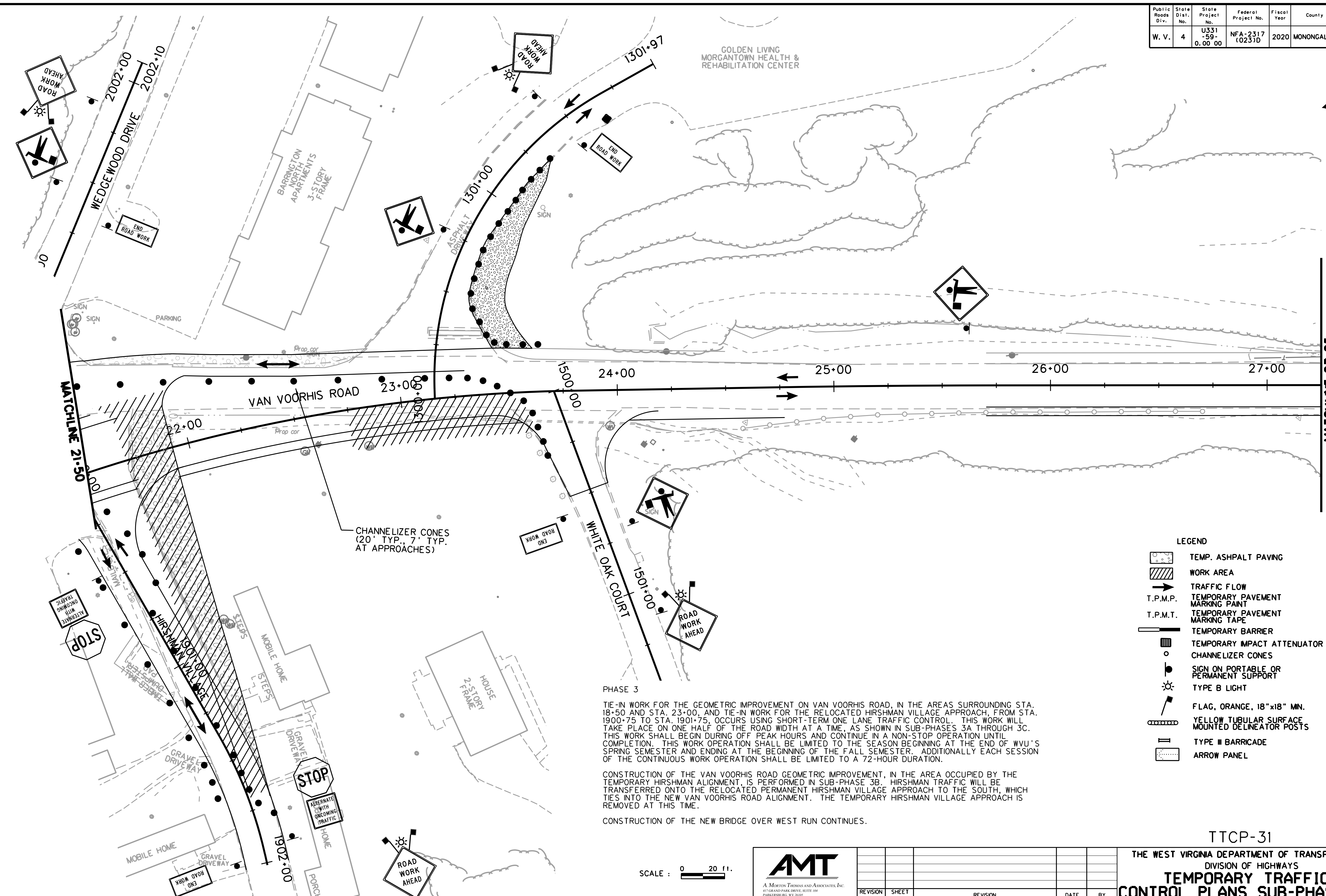
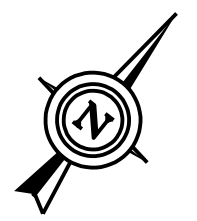
SCALE : 0 20 ft.



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SUBMITTED 6/29/2020

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- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
 - T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
 - CHANNELIZER CONES
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE B LIGHT
 - FLAG, ORANGE, 18"x18" MIN.
 - YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
 - TYPE III BARRICADE
 - ARROW PANEL

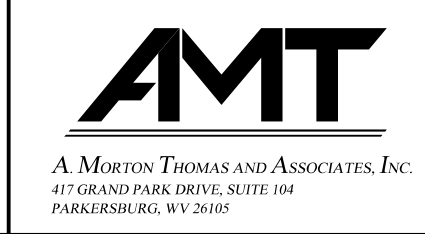
PHASE 3

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CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN CONTINUES.

SCALE : 0 20 ft.

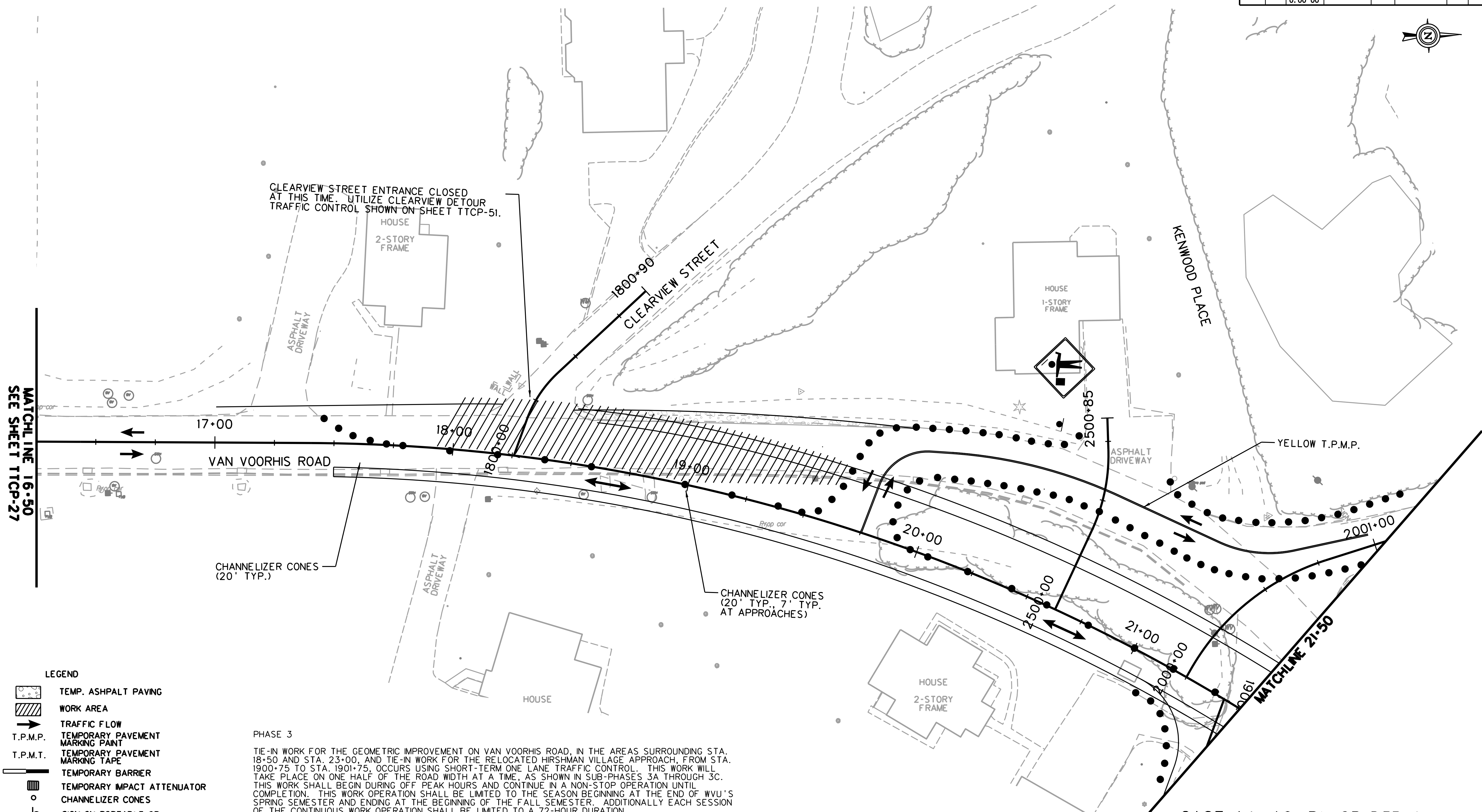
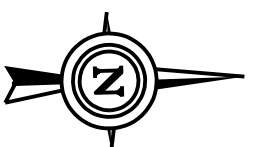


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

TTCP-31
 THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS SUB-PHASE 3B

SUBMITTED 6/29/2020

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W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	67	301



MATCHLINE 16+50
SEE SHEET TTCP-27

MATCHLINE 21+50

- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - TEMPORARY PAVEMENT MARKING PAINT
 - TEMPORARY PAVEMENT MARKING TAPE
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
 - CHANNELIZER CONES
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE B LIGHT
 - FLAG, ORANGE, 18" x 18" MIN.
 - YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
 - TYPE III BARRICADE
 - ARROW PANEL

PHASE 3
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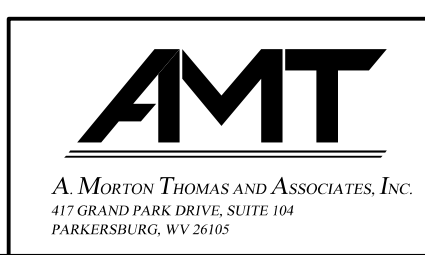
CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN CONTINUES.

CASE A4, A9, B1, OR D5B WILL BE UTILIZED IN THIS PHASE.

TTCP-32

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS SUB-PHASE 3C

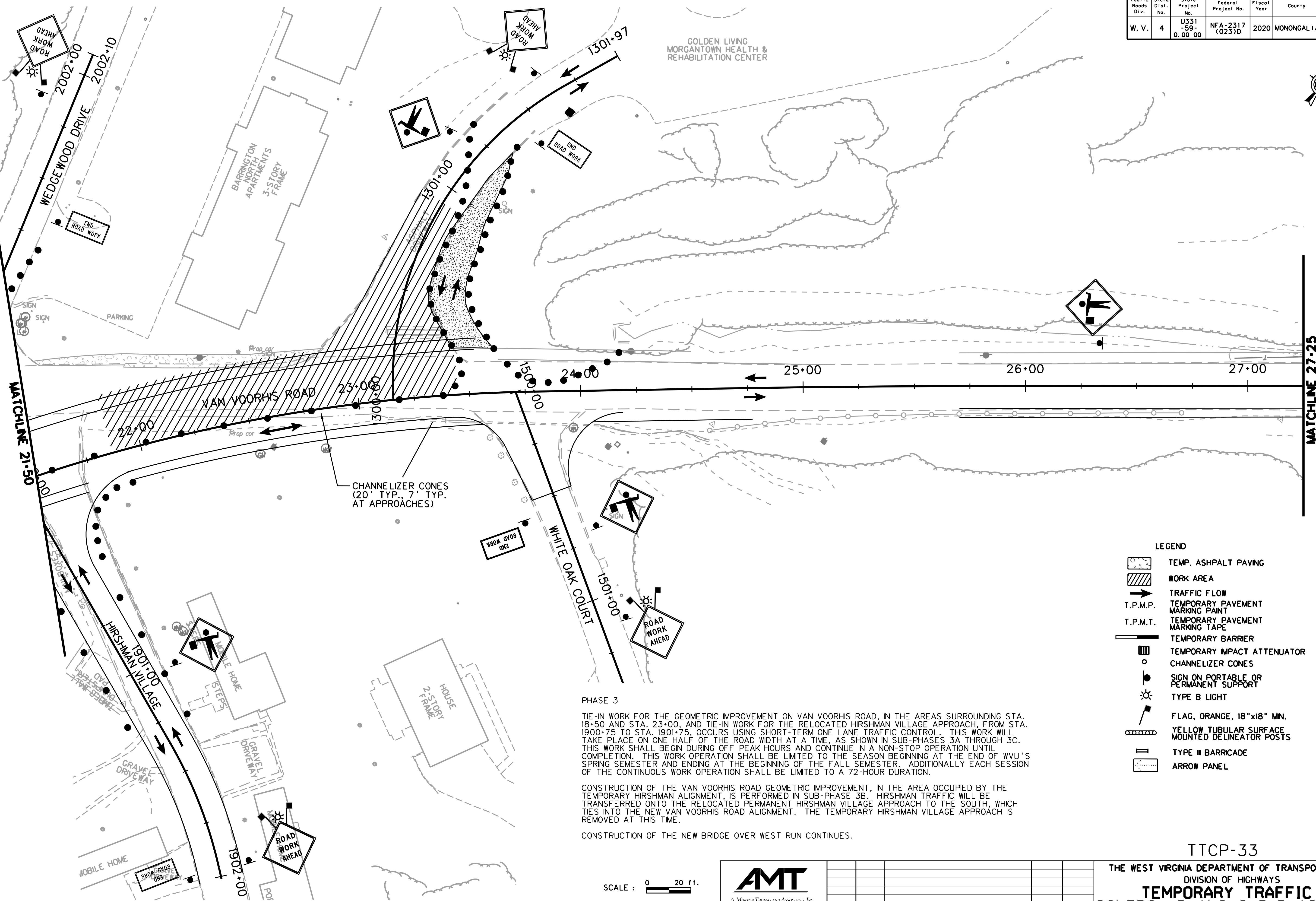
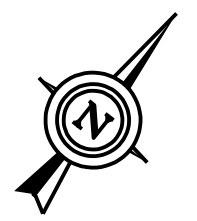
SCALE : 0 20 ft.



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

SUBMITTED 6/29/2020

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- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
 - T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
 - CHANNELIZER CONES
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE B LIGHT
 - FLAG, ORANGE, 18" x 18" MIN.
 - YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
 - TYPE III BARRICADE
 - ARROW PANEL

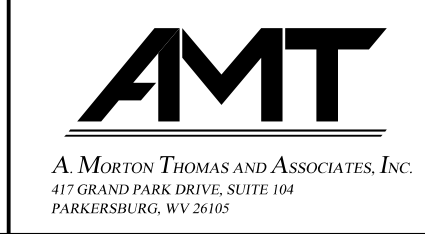
PHASE 3

TIE-IN WORK FOR THE GEOMETRIC IMPROVEMENT ON VAN VOORHIS ROAD, IN THE AREAS SURROUNDING STA. 18+50 AND STA. 23+00, AND TIE-IN WORK FOR THE RELOCATED HIRSHMAN VILLAGE APPROACH, FROM STA. 1900+75 TO STA. 1901+75, OCCURS USING SHORT-TERM ONE LANE TRAFFIC CONTROL. THIS WORK WILL TAKE PLACE ON ONE HALF OF THE ROAD WIDTH AT A TIME, AS SHOWN IN SUB-PHASES 3A THROUGH 3C. THIS WORK SHALL BEGIN DURING OFF PEAK HOURS AND CONTINUE IN A NON-STOP OPERATION UNTIL COMPLETION. THIS WORK OPERATION SHALL BE LIMITED TO THE SEASON BEGINNING AT THE END OF WVU'S SPRING SEMESTER AND ENDING AT THE BEGINNING OF THE FALL SEMESTER. ADDITIONALLY EACH SESSION OF THE CONTINUOUS WORK OPERATION SHALL BE LIMITED TO A 72-HOUR DURATION.

CONSTRUCTION OF THE VAN VOORHIS ROAD GEOMETRIC IMPROVEMENT, IN THE AREA OCCUPIED BY THE TEMPORARY HIRSHMAN ALIGNMENT, IS PERFORMED IN SUB-PHASE 3B. HIRSHMAN TRAFFIC WILL BE TRANSFERRED ONTO THE RELOCATED PERMANENT HIRSHMAN VILLAGE APPROACH TO THE SOUTH, WHICH TIES INTO THE NEW VAN VOORHIS ROAD ALIGNMENT. THE TEMPORARY HIRSHMAN VILLAGE APPROACH IS REMOVED AT THIS TIME.

CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN CONTINUES.

SCALE : 0 20 ft.



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

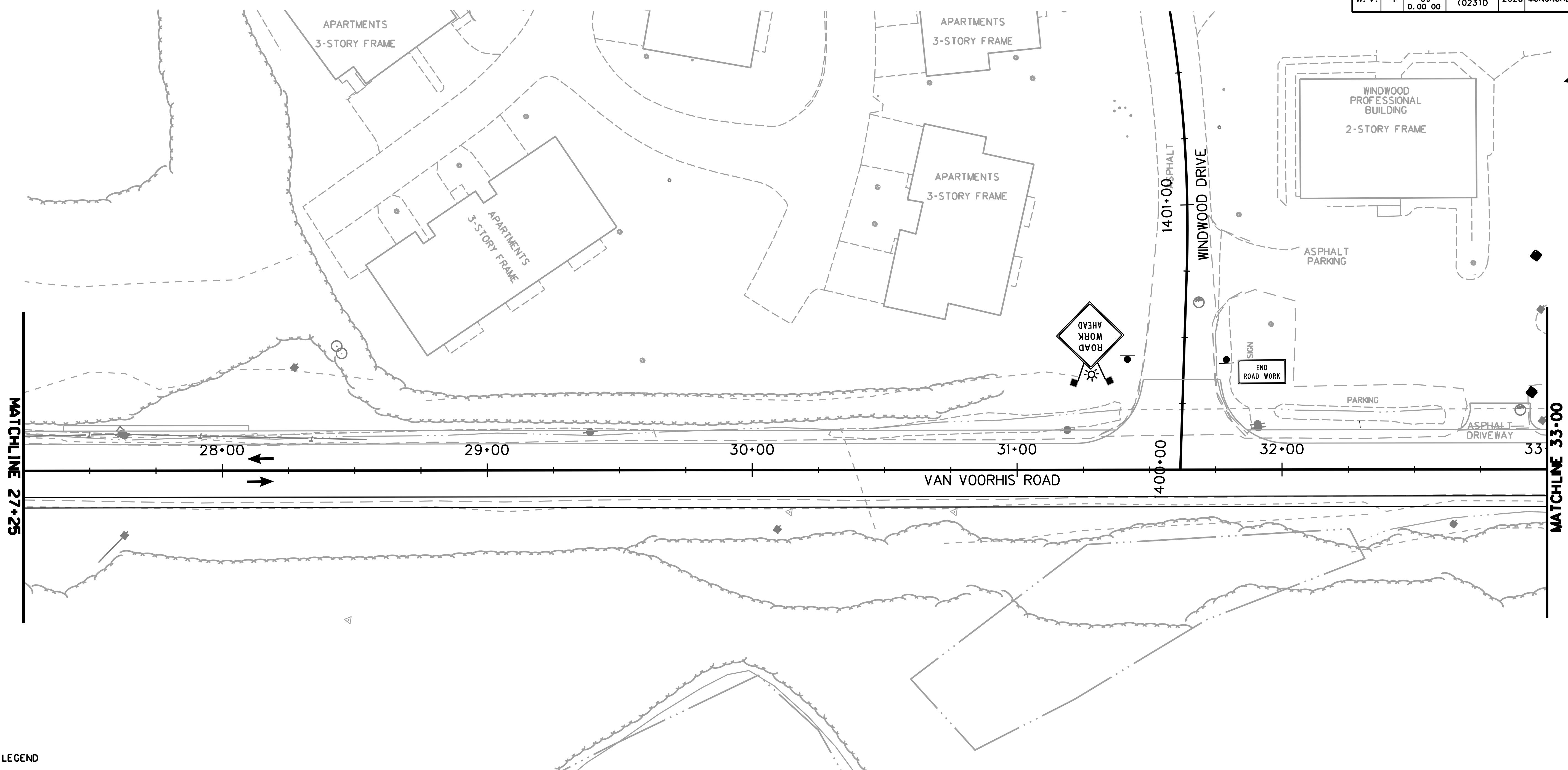
TTCP-33

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

TEMPORARY TRAFFIC CONTROL PLANS SUB-PHASE 3C

SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (023)D	2020	MONONGALIA	69	301



- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
 - T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
 - CHANNELIZER CONES
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE B LIGHT
 - FLAG, ORANGE, 18" x 18" MIN.
 - YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
 - TYPE III BARRICADE
 - ARROW PANEL

PHASE 3

TIE-IN WORK FOR THE GEOMETRIC IMPROVEMENT ON VAN VOORHIS ROAD, IN THE AREAS SURROUNDING STA. 18+50 AND STA. 23+00, AND TIE-IN WORK FOR THE RELOCATED HIRSHMAN VILLAGE APPROACH, FROM STA. 1900+75 TO STA. 1901+75, OCCURS USING SHORT-TERM ONE LANE TRAFFIC CONTROL. THIS WORK WILL TAKE PLACE ON ONE HALF OF THE ROAD WIDTH AT A TIME, AS SHOWN IN SUB-PHASES 3A THROUGH 3C. THIS WORK SHALL BEGIN DURING OFF PEAK HOURS AND CONTINUE IN A NON-STOP OPERATION UNTIL COMPLETION. THIS WORK OPERATION SHALL BE LIMITED TO THE SEASON BEGINNING AT THE END OF WVU'S SPRING SEMESTER AND ENDING AT THE BEGINNING OF THE FALL SEMESTER. ADDITIONALLY EACH SESSION OF THE CONTINUOUS WORK OPERATION SHALL BE LIMITED TO A 72-HOUR DURATION.

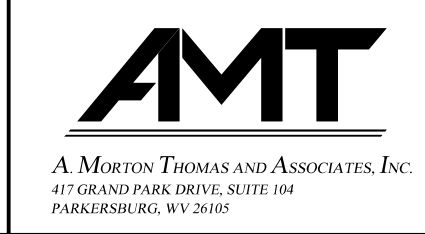
CONSTRUCTION OF THE VAN VOORHIS ROAD GEOMETRIC IMPROVEMENT, IN THE AREA OCCUPIED BY THE TEMPORARY HIRSHMAN ALIGNMENT, IS PERFORMED IN SUB-PHASE 3B. HIRSHMAN TRAFFIC WILL BE TRANSFERRED ONTO THE RELOCATED PERMANENT HIRSHMAN VILLAGE APPROACH TO THE SOUTH, WHICH TIES INTO THE NEW VAN VOORHIS ROAD ALIGNMENT. THE TEMPORARY HIRSHMAN VILLAGE APPROACH IS REMOVED AT THIS TIME.

CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN CONTINUES.

CASE A6 WILL BE UTILIZED IN THIS PHASE.

SUBMITTED 6/29/2020

SCALE : 0 20 ft.

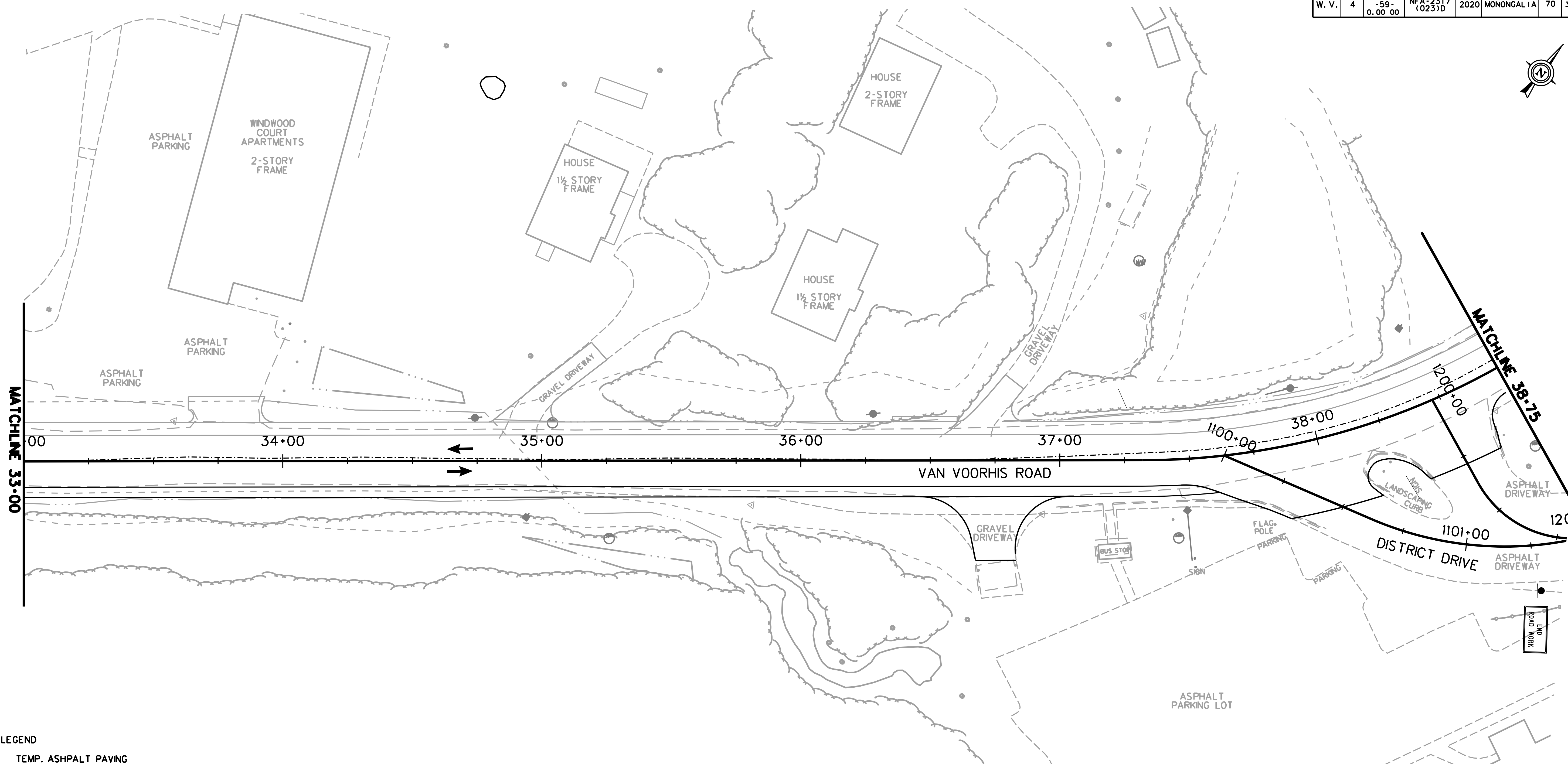


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY















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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE 3

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W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	70	301



LEGEND

-  TEMP. ASPHALT PAVING
-  WORK AREA
-  TRAFFIC FLOW
-  T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
-  T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
-  TEMPORARY BARRIER
-  TEMPORARY IMPACT ATTENUATOR
-  CHANNELIZER CONES
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TYPE B LIGHT
-  FLAG, ORANGE, 18"x18" MIN.
-  YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
-  TYPE III BARRICADE
-  ARROW PANEL

PHASE 3

TIE-IN WORK FOR THE GEOMETRIC IMPROVEMENT ON VAN VOORHIS ROAD, IN THE AREAS SURROUNDING STA. 18+50 AND STA. 23+00, AND TIE-IN WORK FOR THE RELOCATED HIRSHMAN VILLAGE APPROACH, FROM STA. 1900+75 TO STA. 1901+75, OCCURS USING SHORT-TERM ONE LANE TRAFFIC CONTROL. THIS WORK WILL TAKE PLACE ON ONE HALF OF THE ROAD WIDTH AT A TIME, AS SHOWN IN SUB-PHASES 3A THROUGH 3C. THIS WORK SHALL BEGIN DURING OFF PEAK HOURS AND CONTINUE IN A NON-STOP OPERATION UNTIL COMPLETION. THIS WORK OPERATION SHALL BE LIMITED TO THE SEASON BEGINNING AT THE END OF WVU'S SPRING SEMESTER AND ENDING AT THE BEGINNING OF THE FALL SEMESTER. ADDITIONALLY EACH SESSION OF THE CONTINUOUS WORK OPERATION SHALL BE LIMITED TO A 72-HOUR DURATION.

CONSTRUCTION OF THE VAN VOORHIS ROAD GEOMETRIC IMPROVEMENT, IN THE AREA OCCUPIED BY THE TEMPORARY HIRSHMAN ALIGNMENT, IS PERFORMED IN SUB-PHASE 3B. HIRSHMAN TRAFFIC WILL BE TRANSFERRED ONTO THE RELOCATED PERMANENT HIRSHMAN VILLAGE APPROACH TO THE SOUTH, WHICH TIES INTO THE NEW VAN VOORHIS ROAD ALIGNMENT. THE TEMPORARY HIRSHMAN VILLAGE APPROACH IS REMOVED AT THIS TIME.

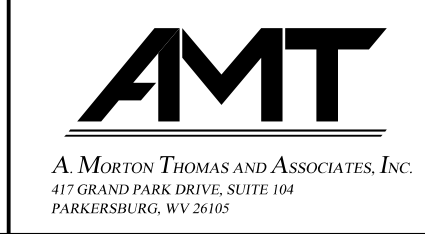
CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN CONTINUES.

CASE A6 WILL BE UTILIZED IN THIS PHASE.

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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE 3

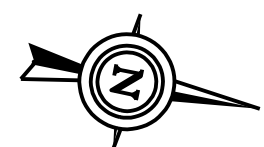
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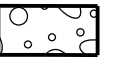



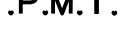








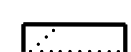
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

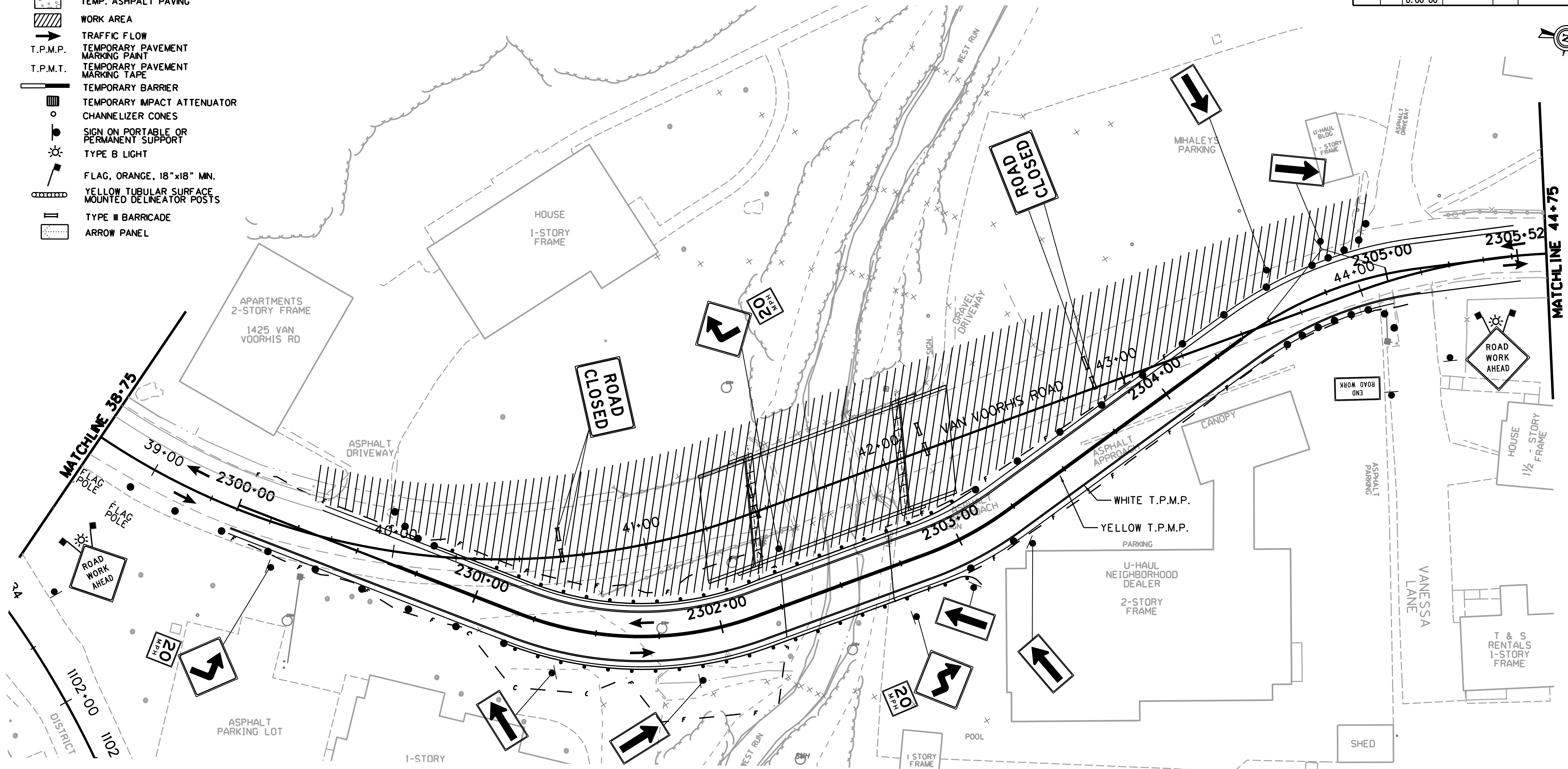
SUBMITTED 6/29/2020

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W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	71	301



LEGEND

-  TEMP. ASPHALT PAVING
-  WORK AREA
-  TRAFFIC FLOW
-  T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
-  T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
-  TEMPORARY BARRIER
-  TEMPORARY IMPACT ATTENUATOR
-  CHANNELIZER CONES
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TYPE B LIGHT
-  FLAG, ORANGE, 18" x 18" MIN.
-  YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
-  TYPE III BARRICADE
-  ARROW PANEL



PHASE 3

TIE-IN WORK FOR THE GEOMETRIC IMPROVEMENT ON VAN VOORHIS ROAD, IN THE AREAS SURROUNDING STA. 18+50 AND STA. 23+00, AND TIE-IN WORK FOR THE RELOCATED HIRSHMAN VILLAGE APPROACH, FROM STA. 1900+75 TO STA. 1901+75, OCCURS USING SHORT-TERM ONE LANE TRAFFIC CONTROL. THIS WORK WILL TAKE PLACE ON ONE HALF OF THE ROAD WIDTH AT A TIME, AS SHOWN IN SUB-PHASES 3A THROUGH 3C. THIS WORK SHALL BEGIN DURING OFF PEAK HOURS AND CONTINUE IN A NON-STOP OPERATION UNTIL COMPLETION. THIS WORK OPERATION SHALL BE LIMITED TO THE SEASON BEGINNING AT THE END OF WVU'S SPRING SEMESTER AND ENDING AT THE BEGINNING OF THE FALL SEMESTER. ADDITIONALLY EACH SESSION OF THE CONTINUOUS WORK OPERATION SHALL BE LIMITED TO A 72-HOUR DURATION.

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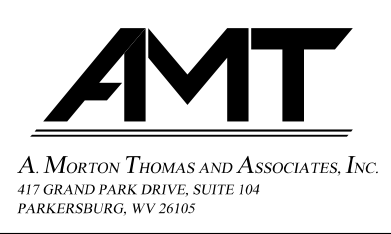
CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN CONTINUES.

CASE A12 WILL BE UTILIZED IN THIS PHASE.

TTCP-36

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE 3

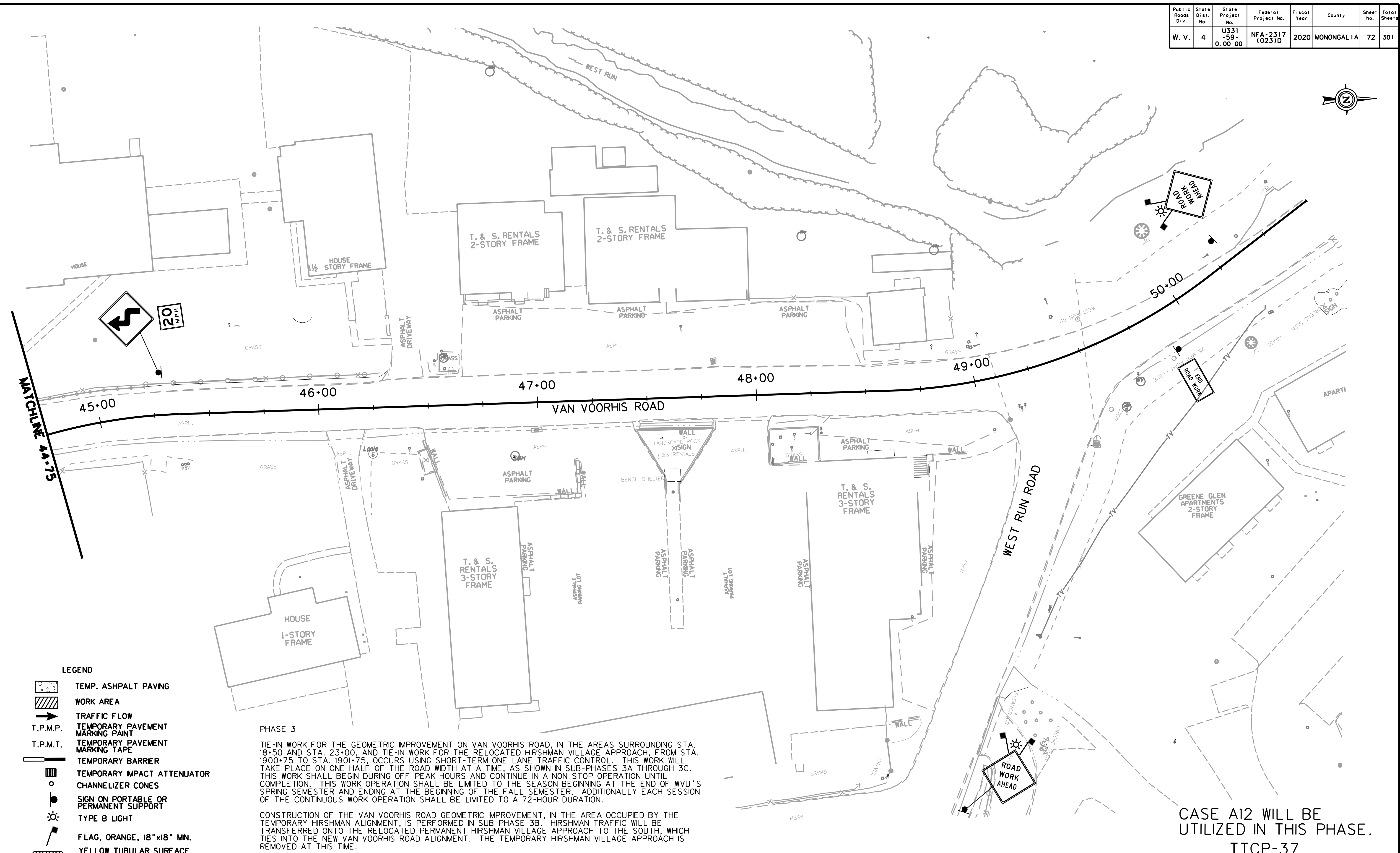
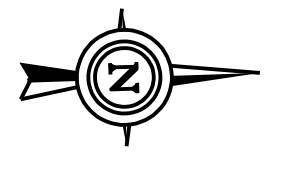
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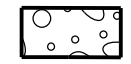








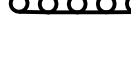




REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

SUBMITTED 6/29/2020

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LEGEND

-  TEMP. ASPHALT PAVING
-  WORK AREA
-  TRAFFIC FLOW
-  T.P.M.P.
-  T.P.M.T.
-  TEMPORARY BARRIER
-  TEMPORARY IMPACT ATTENUATOR
-  CHANNELIZER CONES
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TYPE B LIGHT
-  FLAG, ORANGE, 18"x18" MIN.
-  YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
-  TYPE II BARRICADE
-  ARROW PANEL

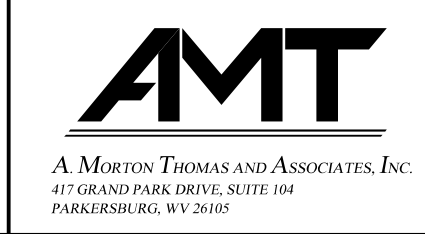
PHASE 3

TIE-IN WORK FOR THE GEOMETRIC IMPROVEMENT ON VAN VOORHIS ROAD, IN THE AREAS SURROUNDING STA. 18+50 AND STA. 23+00, AND TIE-IN WORK FOR THE RELOCATED HIRSHMAN VILLAGE APPROACH, FROM STA. 1900+75 TO STA. 1901+75, OCCURS USING SHORT-TERM ONE LANE TRAFFIC CONTROL. THIS WORK WILL TAKE PLACE ON ONE HALF OF THE ROAD WIDTH AT A TIME, AS SHOWN IN SUB-PHASES 3A THROUGH 3C. THIS WORK SHALL BEGIN DURING OFF PEAK HOURS AND CONTINUE IN A NON-STOP OPERATION UNTIL COMPLETION. THIS WORK OPERATION SHALL BE LIMITED TO THE SEASON BEGINNING AT THE END OF WVU'S SPRING SEMESTER AND ENDING AT THE BEGINNING OF THE FALL SEMESTER. ADDITIONALLY EACH SESSION OF THE CONTINUOUS WORK OPERATION SHALL BE LIMITED TO A 72-HOUR DURATION.

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CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN CONTINUES.

SCALE : 0 20 ft.



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CASE A12 WILL BE UTILIZED IN THIS PHASE.
TTCP-37

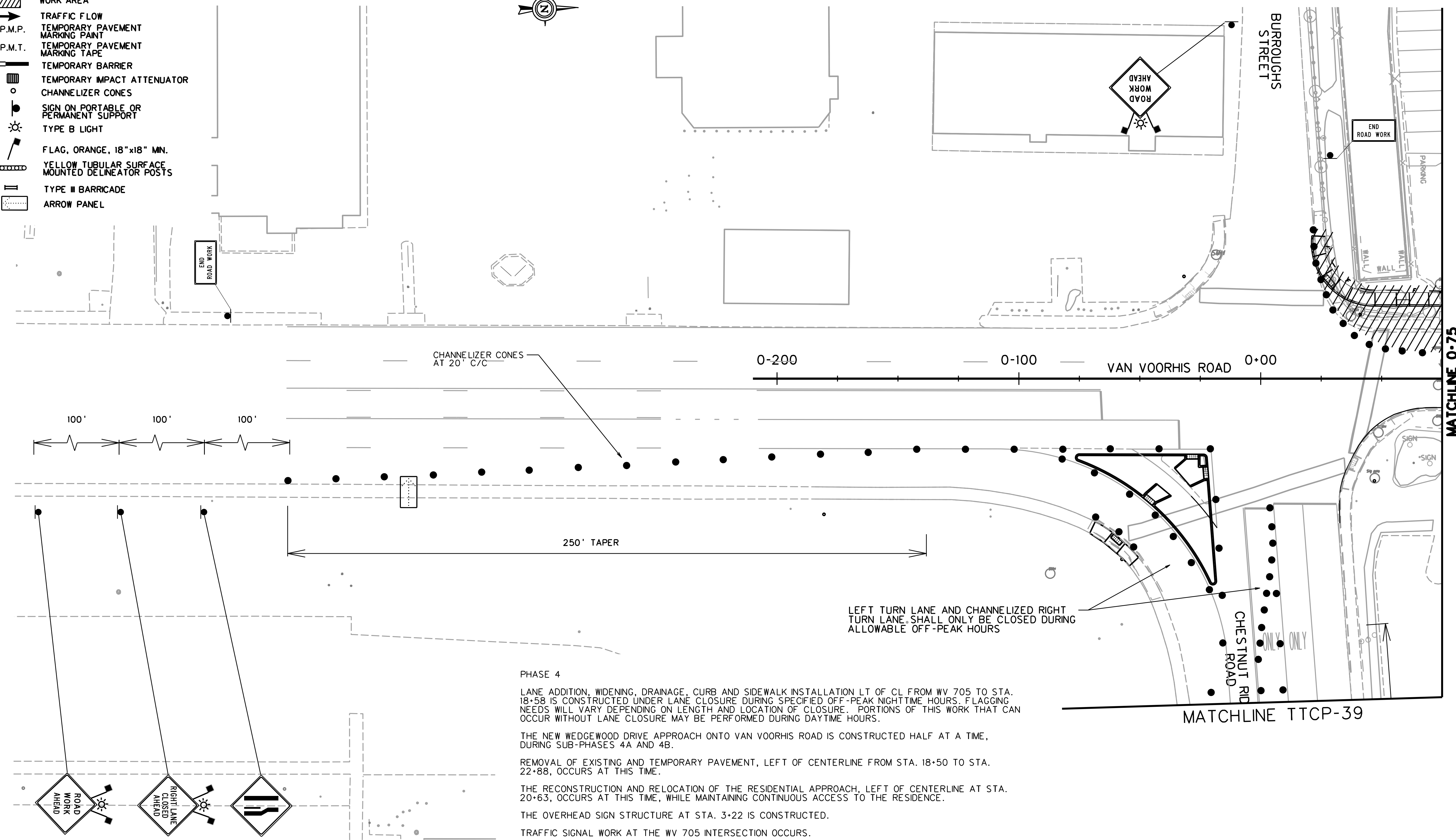
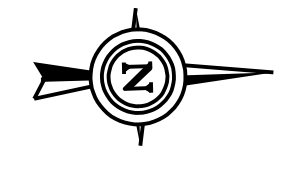
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE 3

SUBMITTED 6/29/2020

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W. V.	4	U331-59-0.00 00	NFA-2317 (023)D	2020	MONONGALIA	73	301

LEGEND

-  TEMP. ASPHALT PAVING
-  WORK AREA
-  TRAFFIC FLOW
-  T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
-  T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
-  TEMPORARY BARRIER
-  TEMPORARY IMPACT ATTENUATOR
-  CHANNELIZER CONES
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TYPE B LIGHT
-  FLAG, ORANGE, 18" x 18" MIN.
-  YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
-  TYPE III BARRICADE
-  ARROW PANEL



PHASE 4

LANE ADDITION, WIDENING, DRAINAGE, CURB AND SIDEWALK INSTALLATION LT OF CL FROM WV 705 TO STA. 18+58 IS CONSTRUCTED UNDER LANE CLOSURE DURING SPECIFIED OFF-PEAK NIGHTTIME HOURS. FLAGGING NEEDS WILL VARY DEPENDING ON LENGTH AND LOCATION OF CLOSURE. PORTIONS OF THIS WORK THAT CAN OCCUR WITHOUT LANE CLOSURE MAY BE PERFORMED DURING DAYTIME HOURS.

THE NEW WEDGEWOOD DRIVE APPROACH ONTO VAN VOORHIS ROAD IS CONSTRUCTED HALF AT A TIME, DURING SUB-PHASES 4A AND 4B.

REMOVAL OF EXISTING AND TEMPORARY PAVEMENT, LEFT OF CENTERLINE FROM STA. 18+50 TO STA. 22+88, OCCURS AT THIS TIME.

THE RECONSTRUCTION AND RELOCATION OF THE RESIDENTIAL APPROACH, LEFT OF CENTERLINE AT STA. 20+63, OCCURS AT THIS TIME, WHILE MAINTAINING CONTINUOUS ACCESS TO THE RESIDENCE.

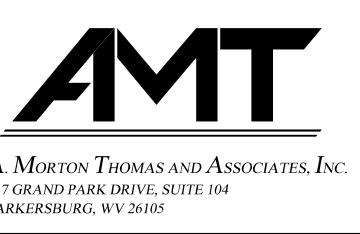
THE OVERHEAD SIGN STRUCTURE AT STA. 3+22 IS CONSTRUCTED.

TRAFFIC SIGNAL WORK AT THE WV 705 INTERSECTION OCCURS.

CONCRETE ISLAND, SIDEWALK AND ADA RAMP WORK OCCURS AT THE INTERSECTION OF VAN VOORHIS ROAD AND WV 705.

THE OVERHEAD SIGNS ARE INSTALLED AT THIS INTERSECTION AND SOUTH OF WV 705.

CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN CONTINUES.



SCALE : 0 20 ft.

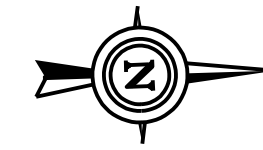
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

TTCP-38

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE 4

SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
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MATCHLINE TTCP 38

TO VAN VOORHIS INTERSECTION

LEFT TURN LANE SHALL ONLY BE CLOSED DURING ALLOWABLE OFF-PEAK HOURS

CHESTNUT RIDGE ROAD (WV 705)

250' TAPER

END ROAD WORK

LEFT LANE CLOSED AHEAD

ROAD WORK AHEAD

PHASE 4

LANE ADDITION, WIDENING, DRAINAGE, CURB AND SIDEWALK INSTALLATION LT OF CL FROM WV 705 TO STA. 18+58 IS CONSTRUCTED UNDER LANE CLOSURE DURING SPECIFIED OFF-PEAK NIGHTTIME HOURS. FLAGGING NEEDS WILL VARY DEPENDING ON LENGTH AND LOCATION OF CLOSURE. PORTIONS OF THIS WORK THAT CAN OCCUR WITHOUT LANE CLOSURE MAY BE PERFORMED DURING DAYTIME HOURS.

THE NEW WEDGEWOOD DRIVE APPROACH ONTO VAN VOORHIS ROAD IS CONSTRUCTED HALF AT A TIME, DURING SUB-PHASES 4A AND 4B.

REMOVAL OF EXISTING AND TEMPORARY PAVEMENT, LEFT OF CENTERLINE FROM STA. 18+50 TO STA. 22+88, OCCURS AT THIS TIME.

THE RECONSTRUCTION AND RELOCATION OF THE RESIDENTIAL APPROACH, LEFT OF CENTERLINE AT STA. 20+63, OCCURS AT THIS TIME, WHILE MAINTAINING CONTINUOUS ACCESS TO THE RESIDENCE.

THE OVERHEAD SIGN STRUCTURE AT STA. 3+22 IS CONSTRUCTED.

TRAFFIC SIGNAL WORK AT THE WV 705 INTERSECTION OCCURS.

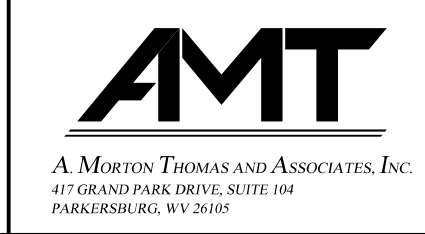
CONCRETE ISLAND, SIDEWALK AND ADA RAMP WORK OCCURS AT THE INTERSECTION OF VAN VOORHIS ROAD AND WV 705.

THE OVERHEAD SIGNS ARE INSTALLED AT THIS INTERSECTION AND SOUTH OF WV 705.

CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN CONTINUES.

- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
 - T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
 - CHANNELIZER CONES
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE B LIGHT
 - FLAG, ORANGE, 18"x18" MN.
 - YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
 - TYPE III BARRICADE
 - ARROW PANEL

SCALE : 0 20 ft.



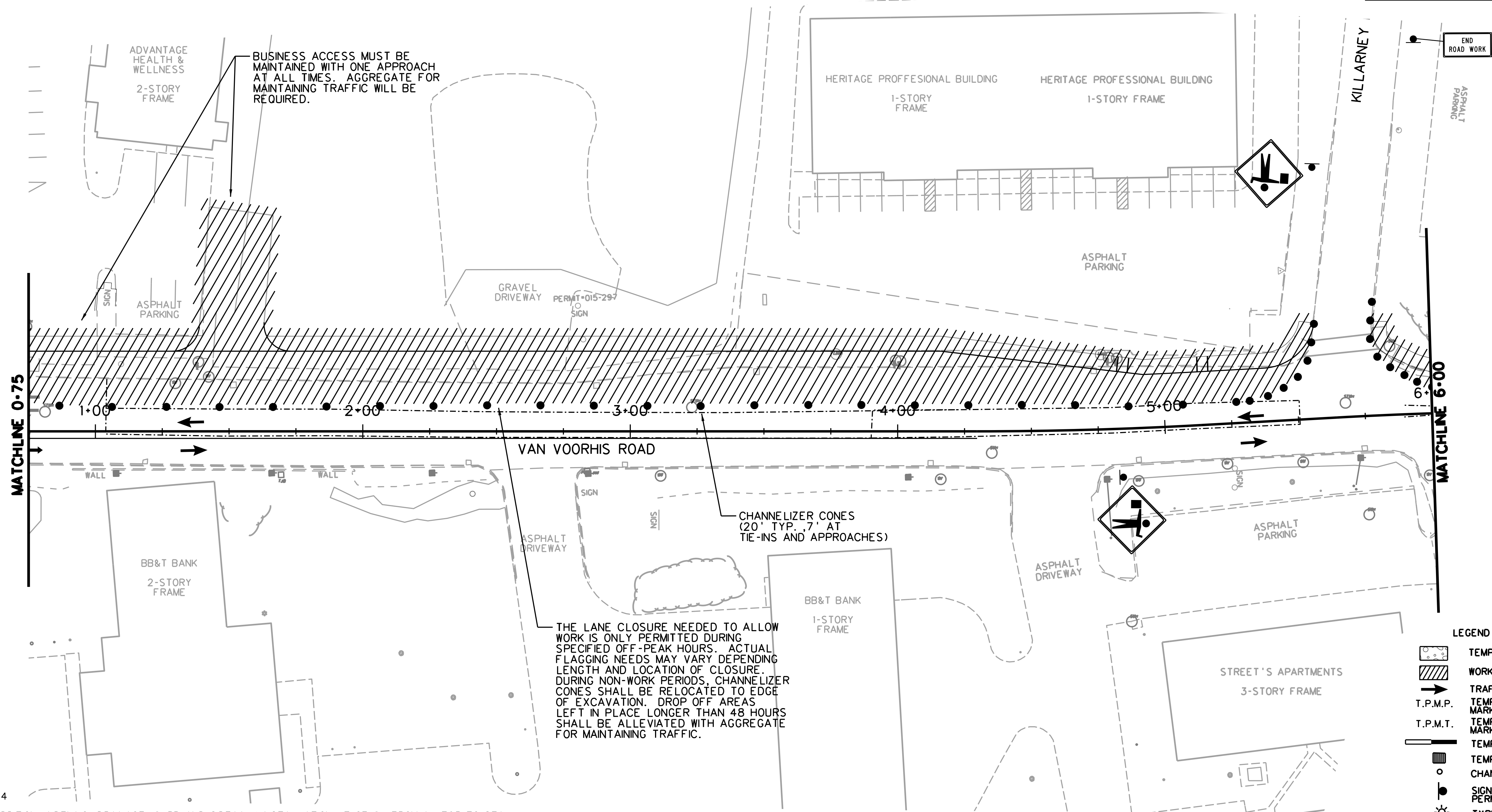
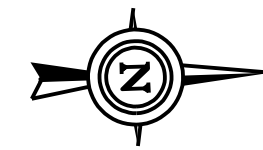
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

TTCP-39

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE 4

SUBMITTED 6/29/2020

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BUSINESS ACCESS MUST BE MAINTAINED WITH ONE APPROACH AT ALL TIMES. AGGREGATE FOR MAINTAINING TRAFFIC WILL BE REQUIRED.

THE LANE CLOSURE NEEDED TO ALLOW WORK IS ONLY PERMITTED DURING SPECIFIED OFF-PEAK HOURS. ACTUAL FLAGGING NEEDS MAY VARY DEPENDING LENGTH AND LOCATION OF CLOSURE. DURING NON-WORK PERIODS, CHANNELIZER CONES SHALL BE RELOCATED TO EDGE OF EXCAVATION. DROP OFF AREAS LEFT IN PLACE LONGER THAN 48 HOURS SHALL BE ALLEVIATED WITH AGGREGATE FOR MAINTAINING TRAFFIC.

- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
 - T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
 - CHANNELIZER CONES
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE B LIGHT
 - FLAG, ORANGE, 18"x18" MIN.
 - YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
 - TYPE III BARRICADE
 - ARROW PANEL

PHASE 4

LANE ADDITION, WIDENING, DRAINAGE, CURB AND SIDEWALK INSTALLATION LT OF CL FROM WV 705 TO STA. 18+58 IS CONSTRUCTED UNDER LANE CLOSURE DURING SPECIFIED OFF-PEAK NIGHTTIME HOURS. FLAGGING NEEDS WILL VARY DEPENDING ON LENGTH AND LOCATION OF CLOSURE. PORTIONS OF THIS WORK THAT CAN OCCUR WITHOUT LANE CLOSURE MAY BE PERFORMED DURING DAYTIME HOURS.

THE NEW WEDGEWOOD DRIVE APPROACH ONTO VAN VOORHIS ROAD IS CONSTRUCTED HALF AT A TIME, DURING SUB-PHASES 4A AND 4B.

REMOVAL OF EXISTING AND TEMPORARY PAVEMENT, LEFT OF CENTERLINE FROM STA. 18+50 TO STA. 22+88, OCCURS AT THIS TIME.

THE RECONSTRUCTION AND RELOCATION OF THE RESIDENTIAL APPROACH, LEFT OF CENTERLINE AT STA. 20+63, OCCURS AT THIS TIME, WHILE MAINTAINING CONTINUOUS ACCESS TO THE RESIDENCE.

THE OVERHEAD SIGN STRUCTURE AT STA. 3+22 IS CONSTRUCTED.

TRAFFIC SIGNAL WORK AT THE WV 705 INTERSECTION OCCURS.

CONCRETE ISLAND, SIDEWALK AND ADA RAMP WORK OCCURS AT THE INTERSECTION OF VAN VOORHIS ROAD AND WV 705.

THE OVERHEAD SIGNS ARE INSTALLED AT THIS INTERSECTION AND SOUTH OF WV 705.

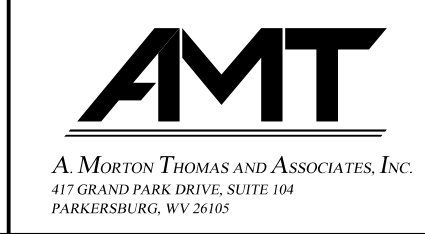
CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN CONTINUES.

CASE A4, A6, A9 OR B1 WILL BE UTILIZED IN THIS PHASE.

TTCP-40

SUBMITTED 6/29/2020

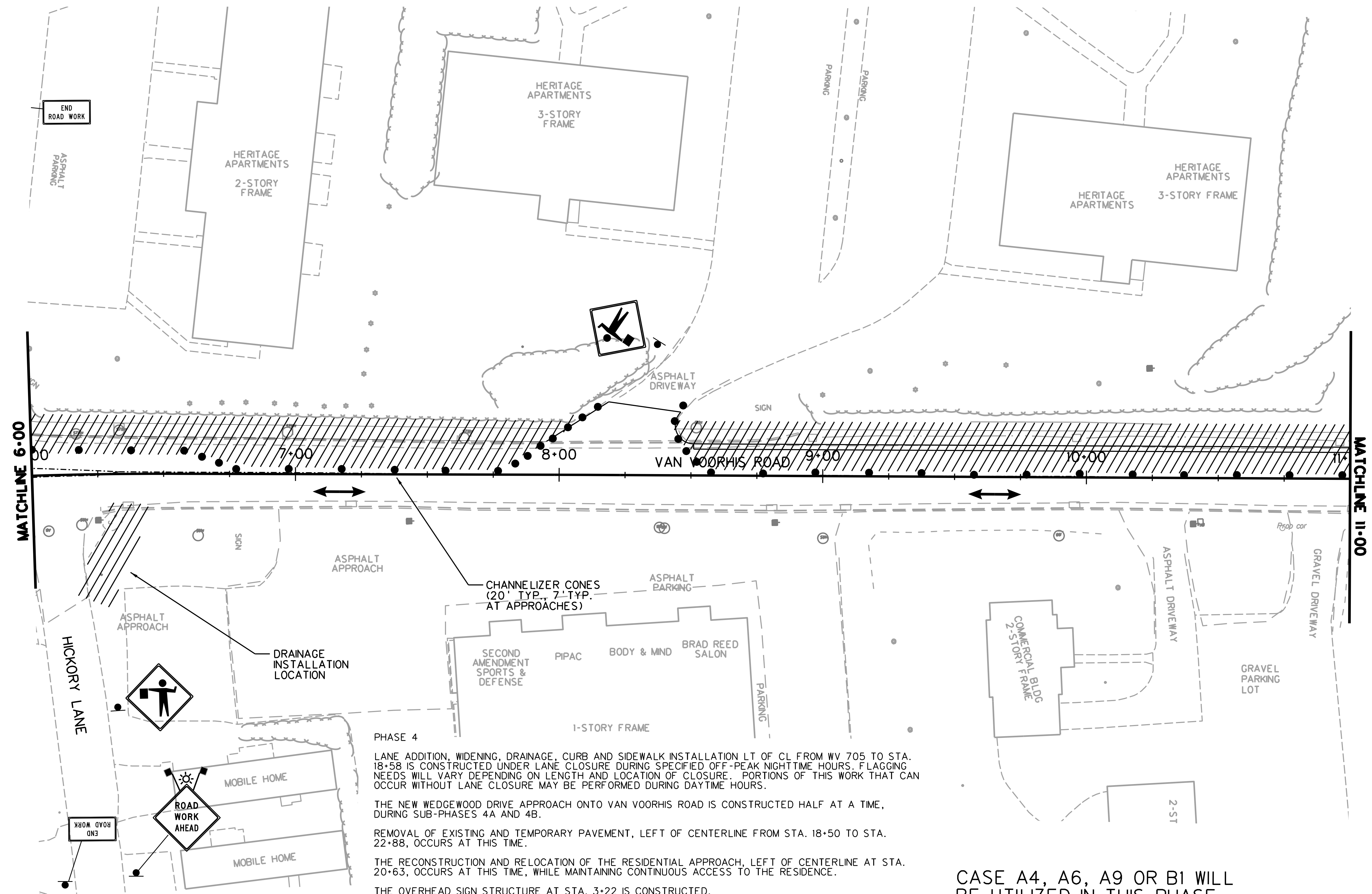
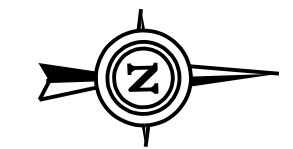
SCALE : 0 20 ft.



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PHASE 4

LANE ADDITION, WIDENING, DRAINAGE, CURB AND SIDEWALK INSTALLATION LT OF CL FROM WV 705 TO STA. 18+58 IS CONSTRUCTED UNDER LANE CLOSURE DURING SPECIFIED OFF-PEAK NIGHTTIME HOURS. FLAGGING NEEDS WILL VARY DEPENDING ON LENGTH AND LOCATION OF CLOSURE. PORTIONS OF THIS WORK THAT CAN OCCUR WITHOUT LANE CLOSURE MAY BE PERFORMED DURING DAYTIME HOURS.

THE NEW WEDGEWOOD DRIVE APPROACH ONTO VAN VOORHIS ROAD IS CONSTRUCTED HALF AT A TIME, DURING SUB-PHASES 4A AND 4B.

REMOVAL OF EXISTING AND TEMPORARY PAVEMENT, LEFT OF CENTERLINE FROM STA. 18+50 TO STA. 22+88, OCCURS AT THIS TIME.

THE RECONSTRUCTION AND RELOCATION OF THE RESIDENTIAL APPROACH, LEFT OF CENTERLINE AT STA. 20+63, OCCURS AT THIS TIME, WHILE MAINTAINING CONTINUOUS ACCESS TO THE RESIDENCE.

THE OVERHEAD SIGN STRUCTURE AT STA. 3+22 IS CONSTRUCTED.

TRAFFIC SIGNAL WORK AT THE WV 705 INTERSECTION OCCURS.

CONCRETE ISLAND, SIDEWALK AND ADA RAMP WORK OCCURS AT THE INTERSECTION OF VAN VOORHIS ROAD AND WV 705.

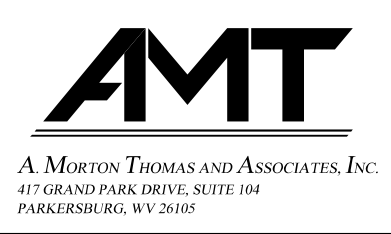
THE OVERHEAD SIGNS ARE INSTALLED AT THIS INTERSECTION AND SOUTH OF WV 705.

CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN CONTINUES.

CASE A4, A6, A9 OR B1 WILL BE UTILIZED IN THIS PHASE.

TTCP-41

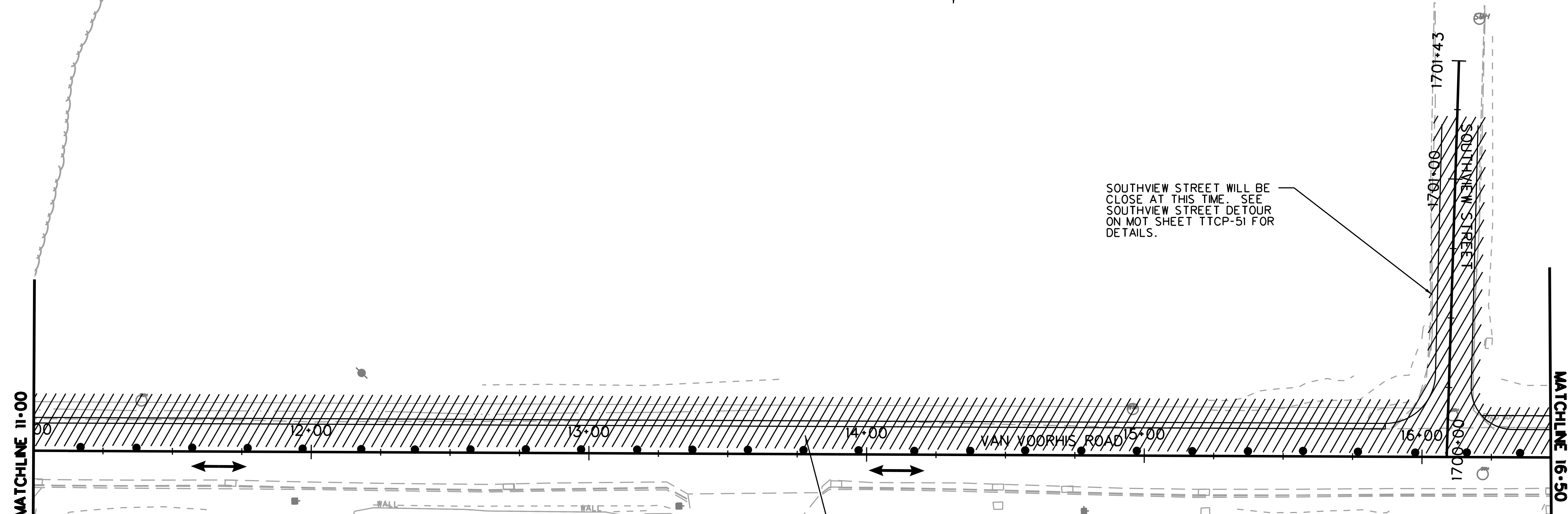
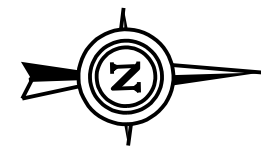
SUBMITTED 6/29/2020



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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE 4

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SOUTHVIEW STREET WILL BE CLOSE AT THIS TIME. SEE SOUTHVIEW STREET DETOUR ON MOT SHEET TTCP-51 FOR DETAILS.

CHANNELIZER CONES (20' TYP., 7' TYP. AT APPROACHES)

- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
 - T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
 - CHANNELIZER CONES
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE B LIGHT
 - FLAG, ORANGE, 18" x 18" MIN.
 - YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
 - TYPE III BARRICADE
 - ARROW PANEL

PHASE 4

LANE ADDITION, WIDENING, DRAINAGE, CURB AND SIDEWALK INSTALLATION LT. OF CL FROM WV 705 TO STA. 18+58 IS CONSTRUCTED UNDER LANE CLOSURE DURING SPECIFIED OFF-PEAK NIGHTTIME HOURS. FLAGGING NEEDS WILL VARY DEPENDING ON LENGTH AND LOCATION OF CLOSURE. PORTIONS OF THIS WORK THAT CAN OCCUR WITHOUT LANE CLOSURE MAY BE PERFORMED DURING DAYTIME HOURS.

THE NEW WEDGEWOOD DRIVE APPROACH ONTO VAN VOORHIS ROAD IS CONSTRUCTED HALF AT A TIME, DURING SUB-PHASES 4A AND 4B.

REMOVAL OF EXISTING AND TEMPORARY PAVEMENT, LEFT OF CENTERLINE FROM STA. 18+50 TO STA. 22+88, OCCURS AT THIS TIME.

THE RECONSTRUCTION AND RELOCATION OF THE RESIDENTIAL APPROACH, LEFT OF CENTERLINE AT STA. 20+63, OCCURS AT THIS TIME, WHILE MAINTAINING CONTINUOUS ACCESS TO THE RESIDENCE.

THE OVERHEAD SIGN STRUCTURE AT STA. 3+22 IS CONSTRUCTED.

TRAFFIC SIGNAL WORK AT THE WV 705 INTERSECTION OCCURS.

CONCRETE ISLAND, SIDEWALK AND ADA RAMP WORK OCCURS AT THE INTERSECTION OF VAN VOORHIS ROAD AND WV 705.

THE OVERHEAD SIGNS ARE INSTALLED AT THIS INTERSECTION AND SOUTH OF WV 705.

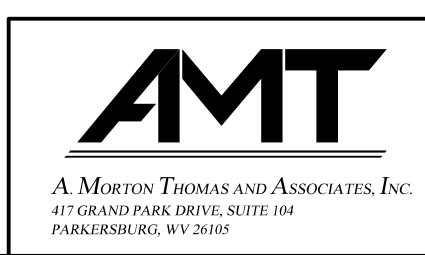
CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN CONTINUES.

CASE A4, A6, A9 OR B1 WILL BE UTILIZED IN THIS PHASE.

TTCP-42

SUBMITTED 6/29/2020

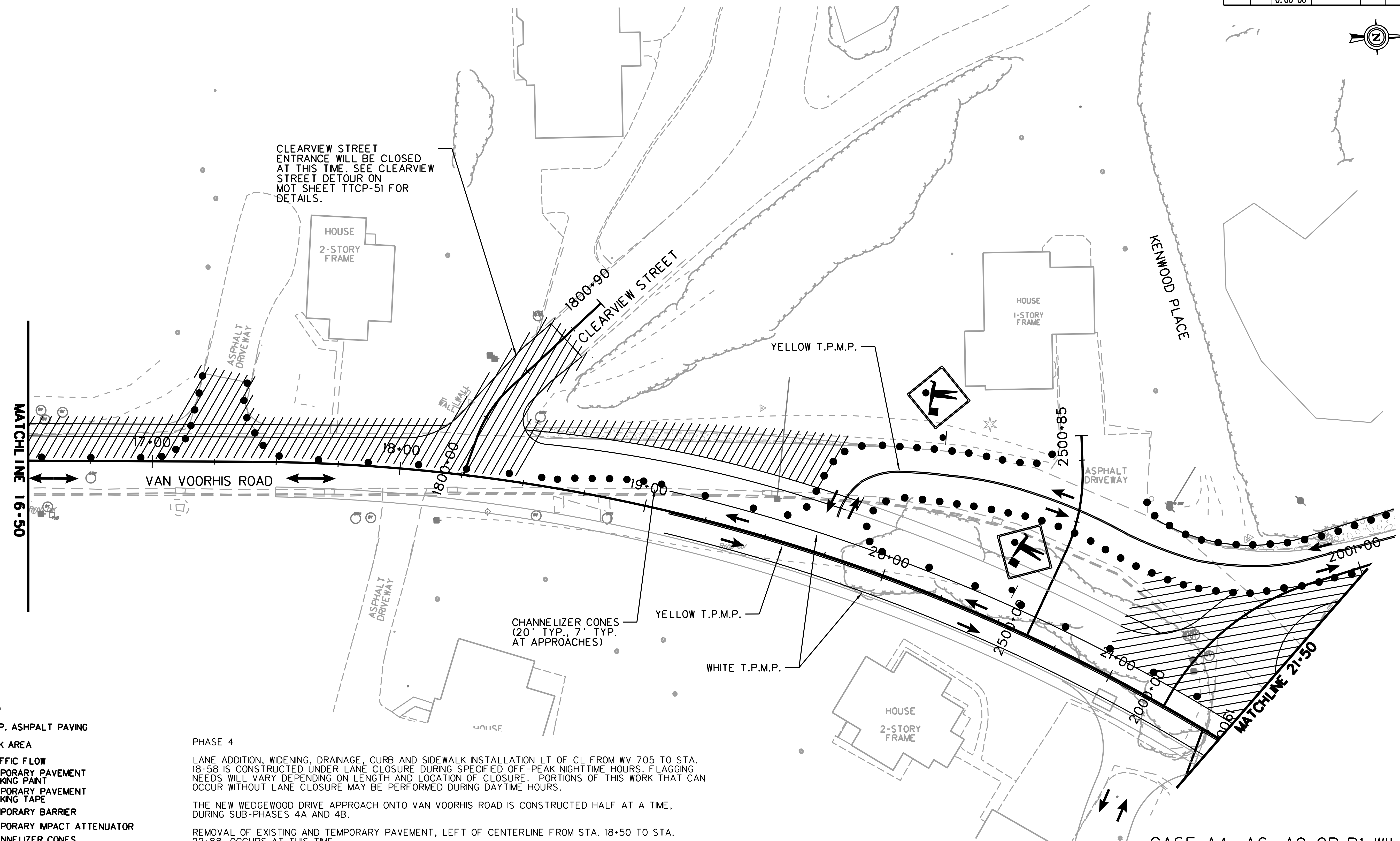
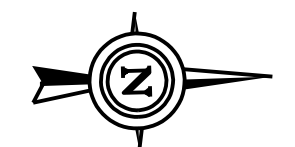
SCALE : 0 20 ft.



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
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LEGEND

- TEMP. ASPHALT PAVING
- WORK AREA
- TRAFFIC FLOW
- T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
- T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
- TEMPORARY BARRIER
- TEMPORARY IMPACT ATTENUATOR
- CHANNELIZER CONES
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE B LIGHT
- FLAG, ORANGE, 18"x18" MIN.
- YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
- TYPE III BARRICADE
- ARROW PANEL

PHASE 4

LANE ADDITION, WIDENING, DRAINAGE, CURB AND SIDEWALK INSTALLATION LT OF CL FROM WV 705 TO STA. 18+58 IS CONSTRUCTED UNDER LANE CLOSURE DURING SPECIFIED OFF-PEAK NIGHTTIME HOURS. FLAGGING NEEDS WILL VARY DEPENDING ON LENGTH AND LOCATION OF CLOSURE. PORTIONS OF THIS WORK THAT CAN OCCUR WITHOUT LANE CLOSURE MAY BE PERFORMED DURING DAYTIME HOURS.

THE NEW WEDGEWOOD DRIVE APPROACH ONTO VAN VOORHIS ROAD IS CONSTRUCTED HALF AT A TIME, DURING SUB-PHASES 4A AND 4B.

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THE OVERHEAD SIGN STRUCTURE AT STA. 3+22 IS CONSTRUCTED.

TRAFFIC SIGNAL WORK AT THE WV 705 INTERSECTION OCCURS.

CONCRETE ISLAND, SIDEWALK AND ADA RAMP WORK OCCURS AT THE INTERSECTION OF VAN VOORHIS ROAD AND WV 705.

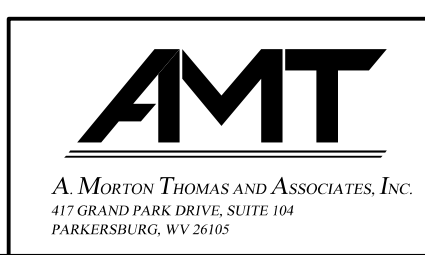
THE OVERHEAD SIGNS ARE INSTALLED AT THIS INTERSECTION AND SOUTH OF WV 705.

CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN CONTINUES.

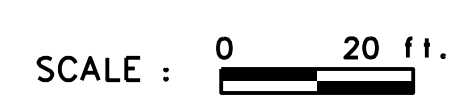
CASE A4, A6, A9 OR B1 WILL BE UTILIZED IN THIS PHASE.

TTCP-43

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS SUB-PHASE 4A

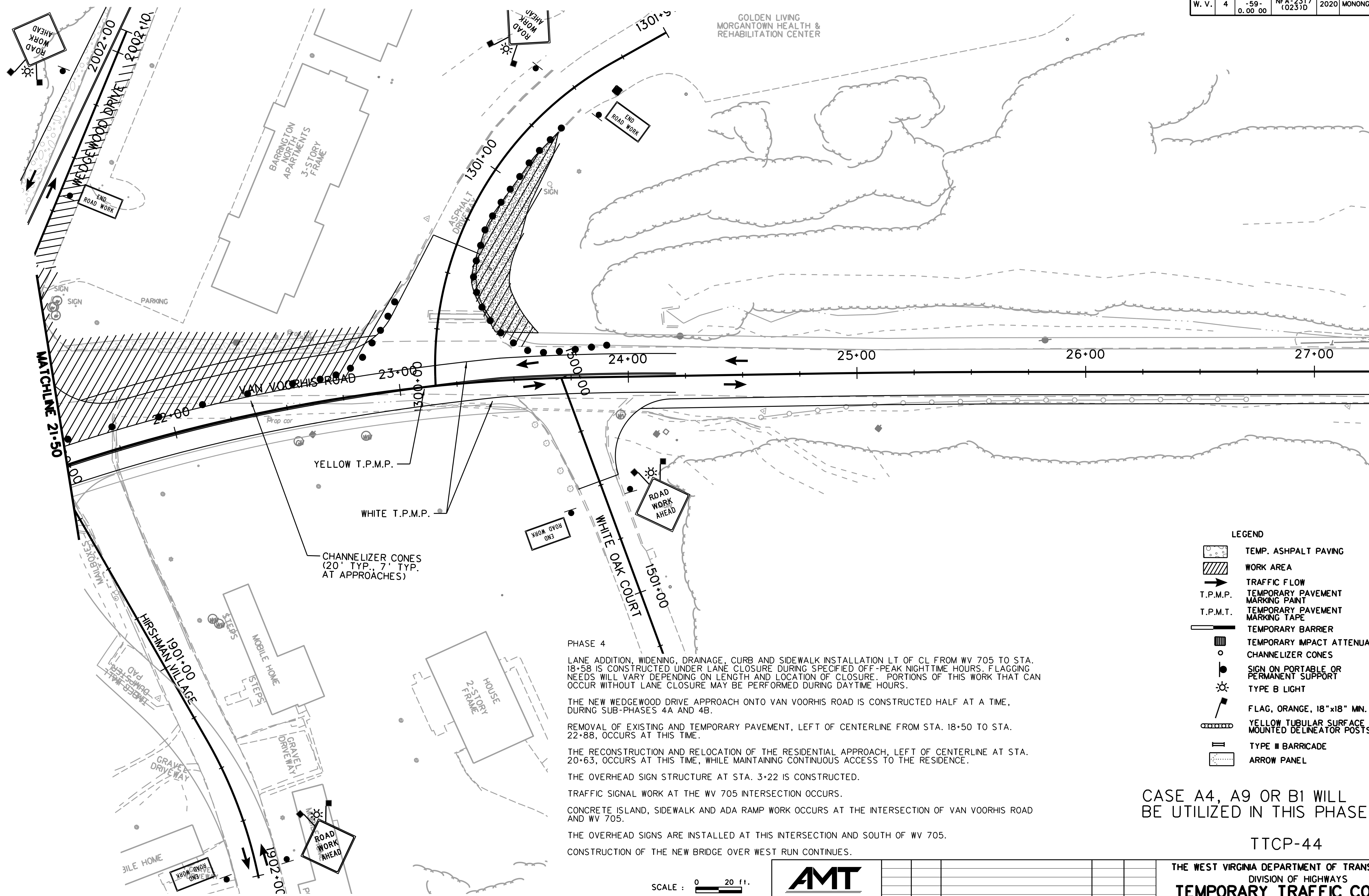
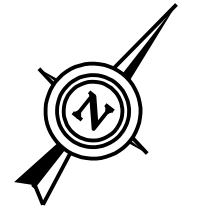


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MATCHLINE 21+50

MATCHLINE 27+25

- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
 - T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
 - CHANNELIZER CONES
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE B LIGHT
 - FLAG, ORANGE, 18" x 18" MIN.
 - YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
 - TYPE III BARRICADE
 - ARROW PANEL

PHASE 4

LANE ADDITION, WIDENING, DRAINAGE, CURB AND SIDEWALK INSTALLATION LT OF CL FROM WV 705 TO STA. 18+58 IS CONSTRUCTED UNDER LANE CLOSURE DURING SPECIFIED OFF-PEAK NIGHTTIME HOURS. FLAGGING NEEDS WILL VARY DEPENDING ON LENGTH AND LOCATION OF CLOSURE. PORTIONS OF THIS WORK THAT CAN OCCUR WITHOUT LANE CLOSURE MAY BE PERFORMED DURING DAYTIME HOURS.

THE NEW WEDGEWOOD DRIVE APPROACH ONTO VAN VOORHIS ROAD IS CONSTRUCTED HALF AT A TIME, DURING SUB-PHASES 4A AND 4B.

REMOVAL OF EXISTING AND TEMPORARY PAVEMENT, LEFT OF CENTERLINE FROM STA. 18+50 TO STA. 22+88, OCCURS AT THIS TIME.

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THE OVERHEAD SIGN STRUCTURE AT STA. 3+22 IS CONSTRUCTED.

TRAFFIC SIGNAL WORK AT THE WV 705 INTERSECTION OCCURS.

CONCRETE ISLAND, SIDEWALK AND ADA RAMP WORK OCCURS AT THE INTERSECTION OF VAN VOORHIS ROAD AND WV 705.

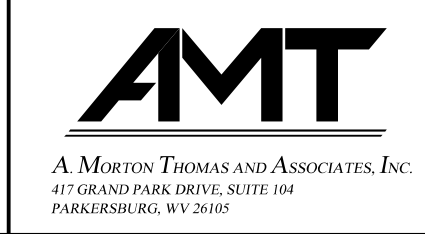
THE OVERHEAD SIGNS ARE INSTALLED AT THIS INTERSECTION AND SOUTH OF WV 705.

CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN CONTINUES.

CASE A4, A9 OR B1 WILL BE UTILIZED IN THIS PHASE.

TTCP-44

SCALE : 0 20 ft.

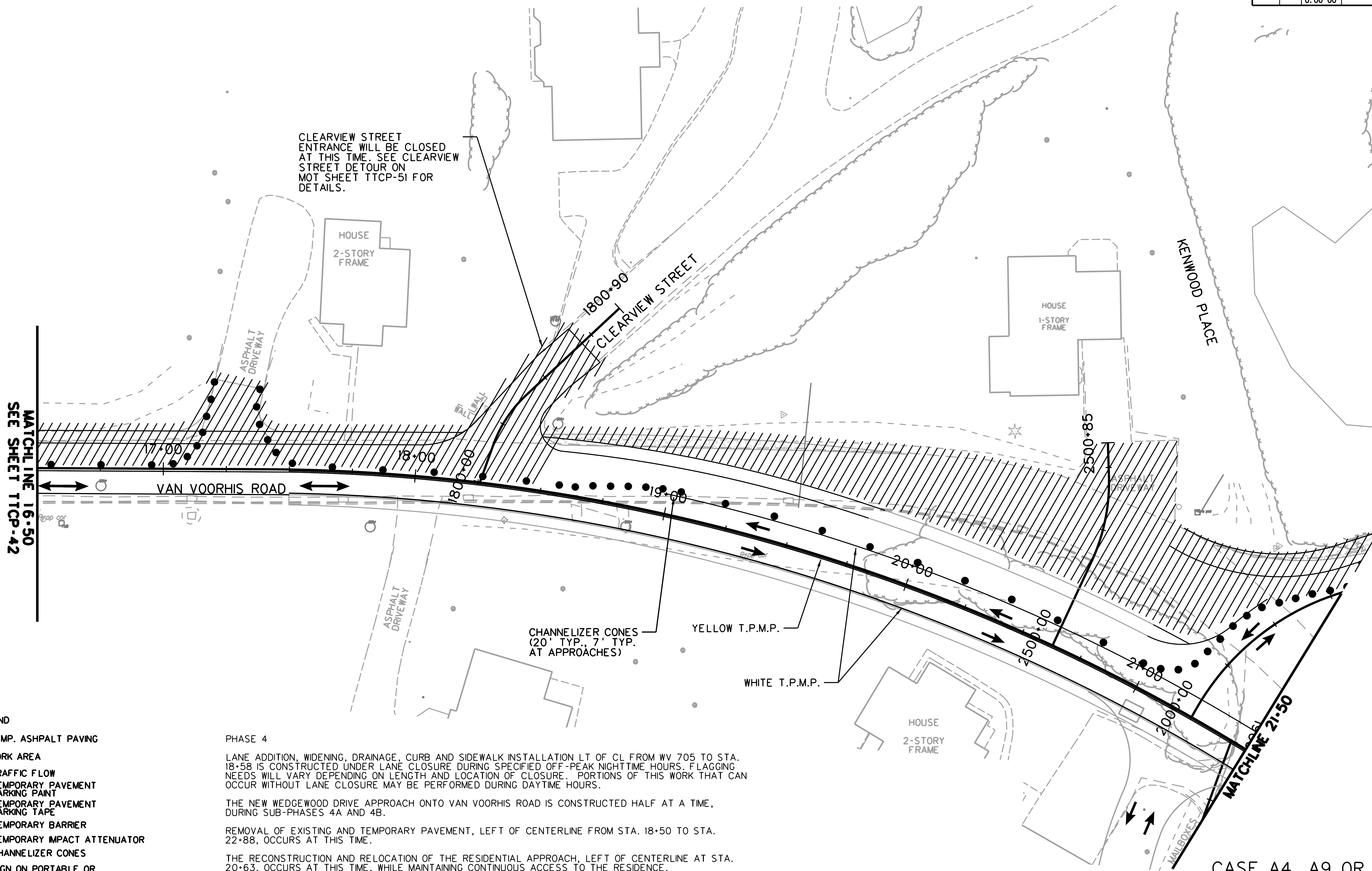
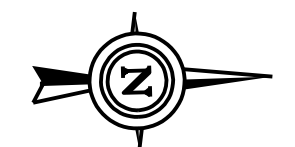


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
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SUBMITTED 6/29/2020

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CLEARVIEW STREET ENTRANCE WILL BE CLOSED AT THIS TIME. SEE CLEARVIEW STREET DETOUR ON MOT SHEET TTCP-51 FOR DETAILS.

MATCHLINE 16+50
SEE SHEET TTCP-42

MATCHLINE 21+50

CASE A4, A9 OR B1 WILL BE UTILIZED IN THIS PHASE.

TTCP-45

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS SUB-PHASE 4B

- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
 - T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
 - CHANNELIZER CONES
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE B LIGHT
 - FLAG, ORANGE, 18"x18" MIN.
 - YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
 - TYPE III BARRICADE
 - ARROW PANEL

PHASE 4

LANE ADDITION, WIDENING, DRAINAGE, CURB AND SIDEWALK INSTALLATION LT OF CL FROM WV 705 TO STA. 18+58 IS CONSTRUCTED UNDER LANE CLOSURE DURING SPECIFIED OFF-PEAK NIGHTTIME HOURS. FLAGGING NEEDS WILL VARY DEPENDING ON LENGTH AND LOCATION OF CLOSURE. PORTIONS OF THIS WORK THAT CAN OCCUR WITHOUT LANE CLOSURE MAY BE PERFORMED DURING DAYTIME HOURS.

THE NEW WEDGEWOOD DRIVE APPROACH ONTO VAN VOORHIS ROAD IS CONSTRUCTED HALF AT A TIME, DURING SUB-PHASES 4A AND 4B.

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THE OVERHEAD SIGN STRUCTURE AT STA. 3+22 IS CONSTRUCTED.

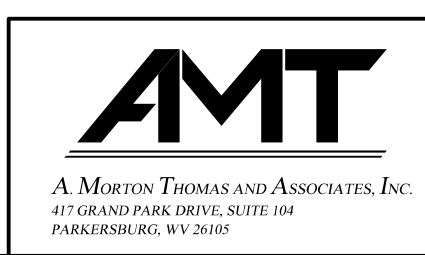
TRAFFIC SIGNAL WORK AT THE WV 705 INTERSECTION OCCURS.

CONCRETE ISLAND, SIDEWALK AND ADA RAMP WORK OCCURS AT THE INTERSECTION OF VAN VOORHIS ROAD AND WV 705.

THE OVERHEAD SIGNS ARE INSTALLED AT THIS INTERSECTION AND SOUTH OF WV 705.

CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN CONTINUES.

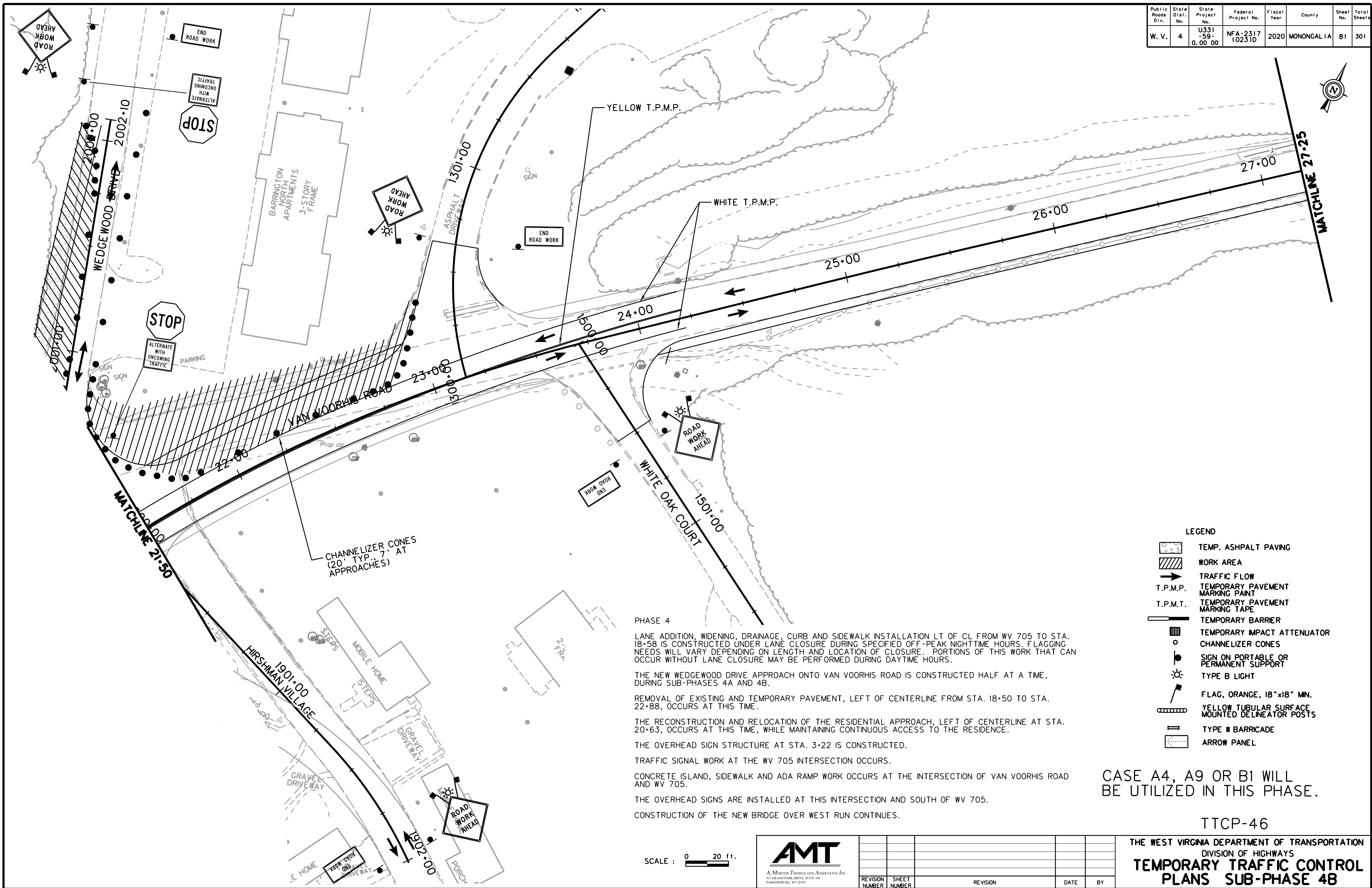
SCALE : 0 20 ft.



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LANE ADDITION, WIDENING, DRAINAGE, CURB AND SIDEWALK INSTALLATION LT OF CL FROM WV 705 TO STA. 18+58 IS CONSTRUCTED UNDER LANE CLOSURE DURING SPECIFIED OFF-PEAK NIGHTTIME HOURS. FLAGGING NEEDS WILL VARY DEPENDING ON LENGTH AND LOCATION OF CLOSURE. PORTIONS OF THIS WORK THAT CAN OCCUR WITHOUT LANE CLOSURE MAY BE PERFORMED DURING DAYTIME HOURS.

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TRAFFIC SIGNAL WORK AT THE WV 705 INTERSECTION OCCURS.

CONCRETE ISLAND, SIDEWALK AND ADA RAMP WORK OCCURS AT THE INTERSECTION OF VAN VOORHIS ROAD AND WV 705.

THE OVERHEAD SIGNS ARE INSTALLED AT THIS INTERSECTION AND SOUTH OF WV 705.

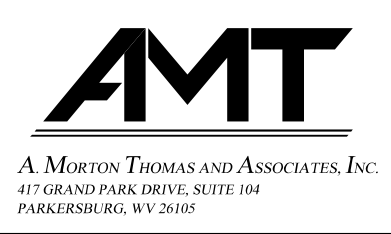
CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN CONTINUES.

CASE A4, A9 OR B1 WILL BE UTILIZED IN THIS PHASE.

TTCP-46

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS SUB-PHASE 4B

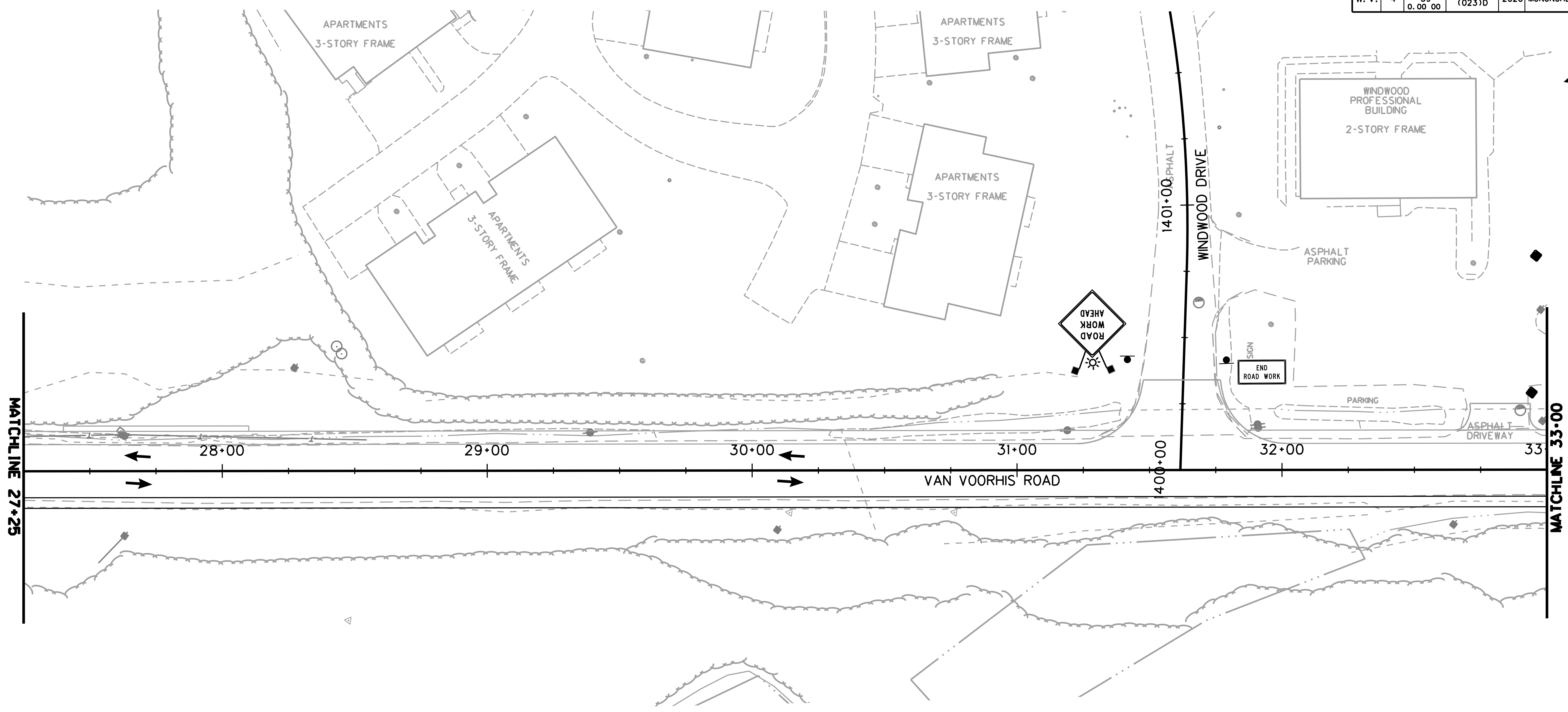
SCALE : 0 20 ft.



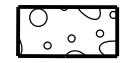









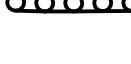



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LEGEND

-  TEMP. ASPHALT PAVING
-  WORK AREA
-  TRAFFIC FLOW
-  T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
-  T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
-  TEMPORARY BARRIER
-  TEMPORARY IMPACT ATTENUATOR
-  CHANNELIZER CONES
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TYPE B LIGHT
-  FLAG, ORANGE, 18" x 18" MIN.
-  YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
-  TYPE III BARRICADE
-  ARROW PANEL

PHASE 4

LANE ADDITION, WIDENING, DRAINAGE, CURB AND SIDEWALK INSTALLATION LT OF CL FROM WV 705 TO STA. 18+58 IS CONSTRUCTED UNDER LANE CLOSURE DURING SPECIFIED OFF-PEAK NIGHTTIME HOURS. FLAGGING NEEDS WILL VARY DEPENDING ON LENGTH AND LOCATION OF CLOSURE. PORTIONS OF THIS WORK THAT CAN OCCUR WITHOUT LANE CLOSURE MAY BE PERFORMED DURING DAYTIME HOURS.

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THE OVERHEAD SIGN STRUCTURE AT STA. 3+22 IS CONSTRUCTED.

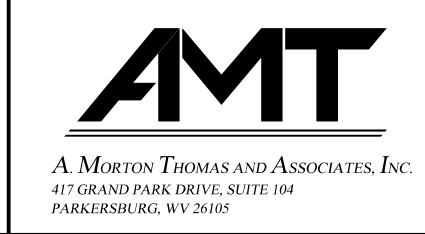
TRAFFIC SIGNAL WORK AT THE WV 705 INTERSECTION OCCURS.

CONCRETE ISLAND, SIDEWALK AND ADA RAMP WORK OCCURS AT THE INTERSECTION OF VAN VOORHIS ROAD AND WV 705.

THE OVERHEAD SIGNS ARE INSTALLED AT THIS INTERSECTION AND SOUTH OF WV 705.

CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN CONTINUES.

SCALE : 0 20 ft.



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

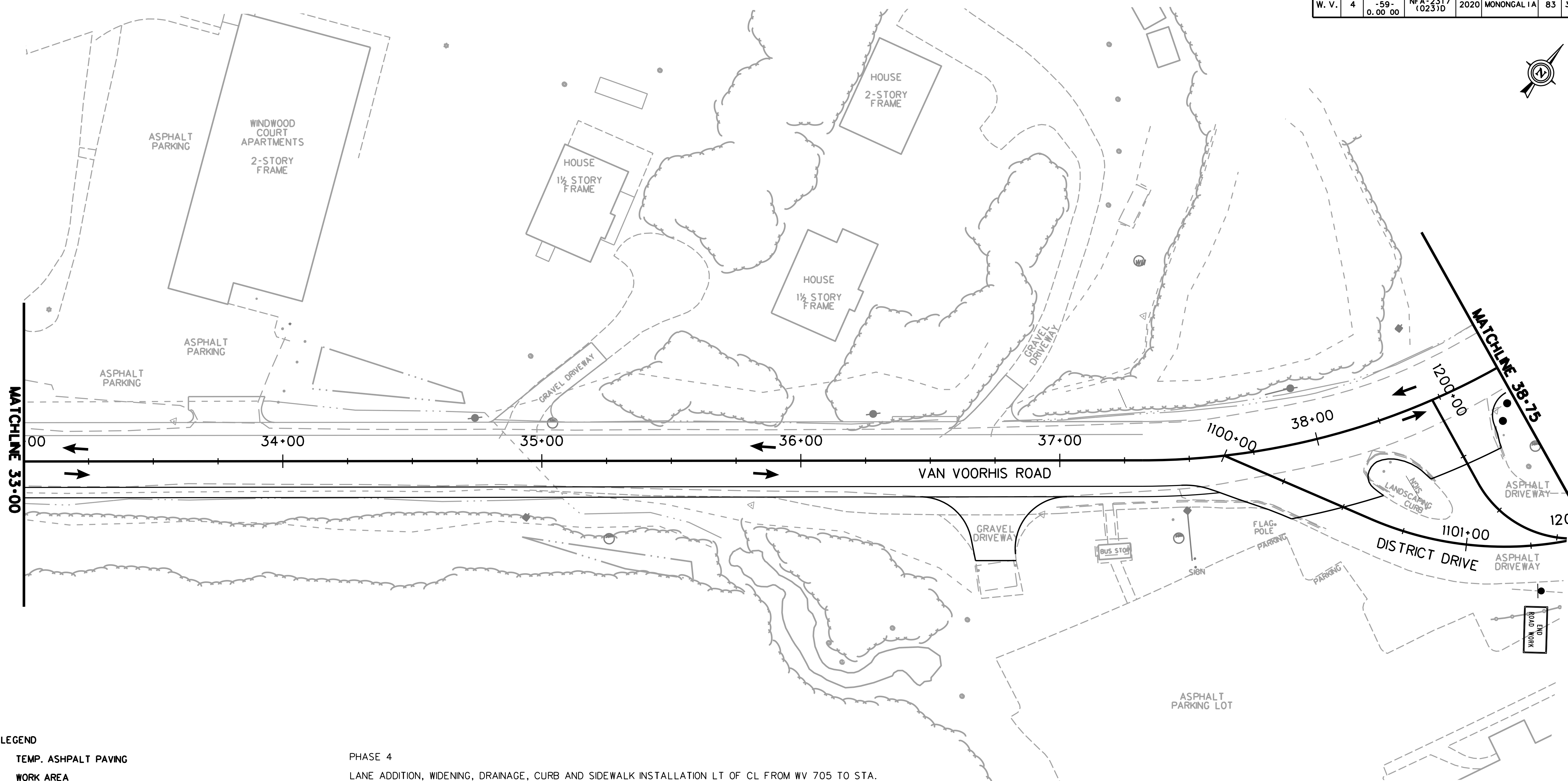
CASE A4, A9, B1, OR D5B WILL BE UTILIZED IN THIS PHASE.

TTCP-47















THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE 4

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LEGEND

-  TEMP. ASPHALT PAVING
-  WORK AREA
-  TRAFFIC FLOW
-  T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
-  T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
-  TEMPORARY BARRIER
-  TEMPORARY IMPACT ATTENUATOR
-  CHANNELIZER CONES
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TYPE B LIGHT
-  FLAG, ORANGE, 18"x18" MIN.
-  YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
-  TYPE III BARRICADE
-  ARROW PANEL

PHASE 4

LANE ADDITION, WIDENING, DRAINAGE, CURB AND SIDEWALK INSTALLATION LT OF CL FROM WV 705 TO STA. 18+58 IS CONSTRUCTED UNDER LANE CLOSURE DURING SPECIFIED OFF-PEAK NIGHTTIME HOURS. FLAGGING NEEDS WILL VARY DEPENDING ON LENGTH AND LOCATION OF CLOSURE. PORTIONS OF THIS WORK THAT CAN OCCUR WITHOUT LANE CLOSURE MAY BE PERFORMED DURING DAYTIME HOURS.

THE NEW WEDGEWOOD DRIVE APPROACH ONTO VAN VOORHIS ROAD IS CONSTRUCTED HALF AT A TIME, DURING SUB-PHASES 4A AND 4B.

REMOVAL OF EXISTING AND TEMPORARY PAVEMENT, LEFT OF CENTERLINE FROM STA. 18+50 TO STA. 22+88, OCCURS AT THIS TIME.

THE RECONSTRUCTION AND RELOCATION OF THE RESIDENTIAL APPROACH, LEFT OF CENTERLINE AT STA. 20+63, OCCURS AT THIS TIME, WHILE MAINTAINING CONTINUOUS ACCESS TO THE RESIDENCE.

THE OVERHEAD SIGN STRUCTURE AT STA. 3+22 IS CONSTRUCTED.

TRAFFIC SIGNAL WORK AT THE WV 705 INTERSECTION OCCURS.

CONCRETE ISLAND, SIDEWALK AND ADA RAMP WORK OCCURS AT THE INTERSECTION OF VAN VOORHIS ROAD AND WV 705.

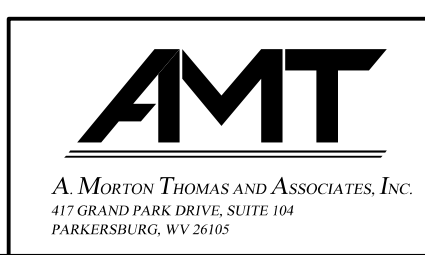
THE OVERHEAD SIGNS ARE INSTALLED AT THIS INTERSECTION AND SOUTH OF WV 705.

CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN CONTINUES.

SCALE : 0 20 ft.

CASE A4, A9, B1, OR D5B WILL BE UTILIZED IN THIS PHASE.

TTCP-48






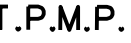









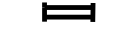
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

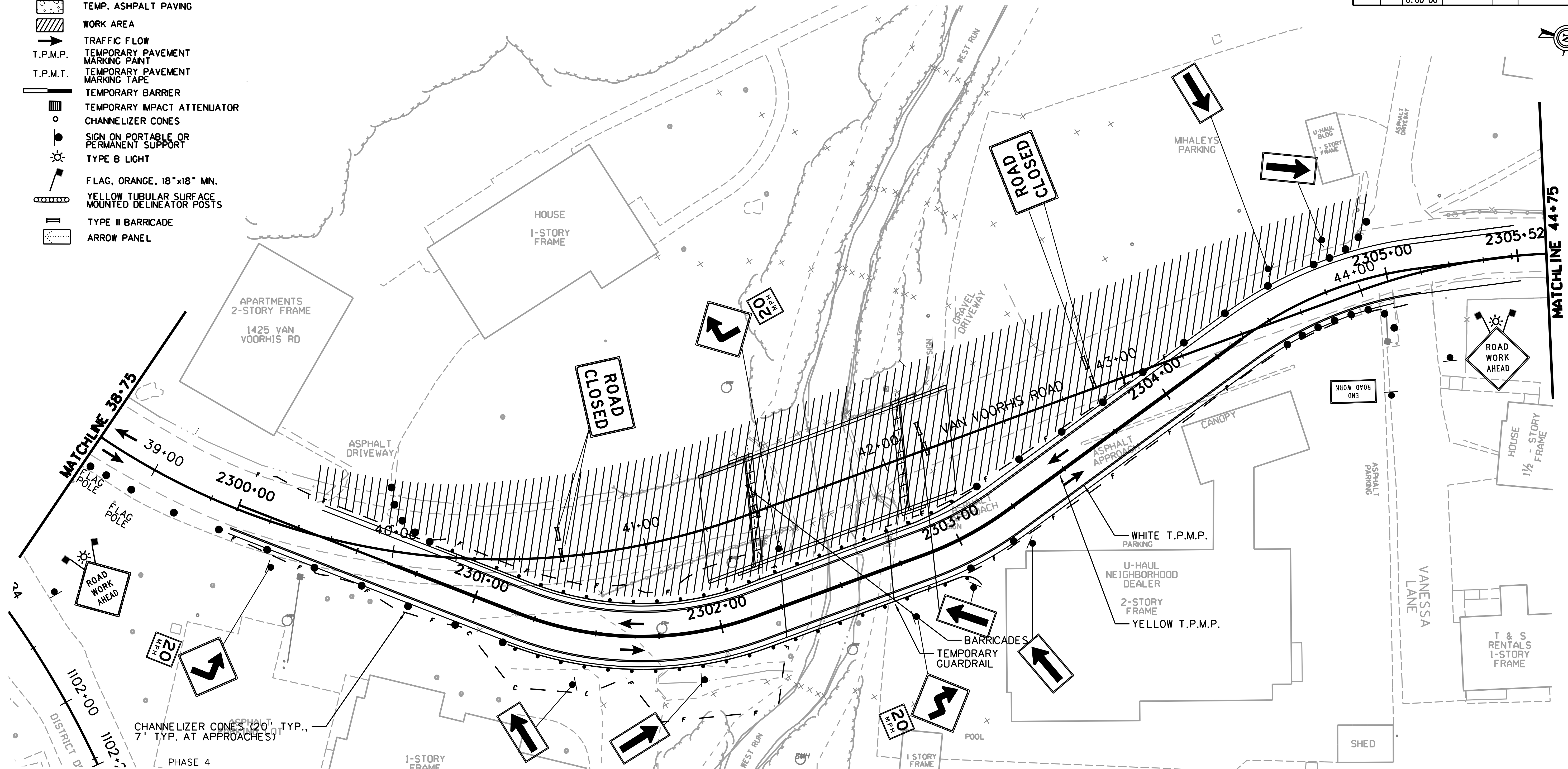
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE 4

SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	84	301

LEGEND

-  TEMP. ASPHALT PAVING
-  WORK AREA
-  TRAFFIC FLOW
-  T.P.M.P.
-  T.P.M.T.
-  TEMPORARY BARRIER
-  TEMPORARY IMPACT ATTENUATOR
-  CHANNELIZER CONES
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TYPE B LIGHT
-  FLAG, ORANGE, 18"x18" MN.
-  YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
-  TYPE II BARRICADE
-  ARROW PANEL



PHASE 4

LANE ADDITION, WIDENING, DRAINAGE, CURB AND SIDEWALK INSTALLATION LT OF CL FROM WV 705 TO STA. 18+58 IS CONSTRUCTED UNDER LANE CLOSURE DURING SPECIFIED OFF-PEAK NIGHTTIME HOURS. FLAGGING NEEDS WILL VARY DEPENDING ON LENGTH AND LOCATION OF CLOSURE. PORTIONS OF THIS WORK THAT CAN OCCUR WITHOUT LANE CLOSURE MAY BE PERFORMED DURING DAYTIME HOURS.

THE NEW WEDGEWOOD DRIVE APPROACH ONTO VAN VOORHIS ROAD IS CONSTRUCTED HALF AT A TIME, DURING SUB-PHASES 4A AND 4B.

REMOVAL OF EXISTING AND TEMPORARY PAVEMENT, LEFT OF CENTERLINE FROM STA. 18+50 TO STA. 22+88, OCCURS AT THIS TIME.

THE RECONSTRUCTION AND RELOCATION OF THE RESIDENTIAL APPROACH, LEFT OF CENTERLINE AT STA. 20+63, OCCURS AT THIS TIME, WHILE MAINTAINING CONTINUOUS ACCESS TO THE RESIDENCE.

THE OVERHEAD SIGN STRUCTURE AT STA. 3+22 IS CONSTRUCTED.

TRAFFIC SIGNAL WORK AT THE WV 705 INTERSECTION OCCURS.

CONCRETE ISLAND, SIDEWALK AND ADA RAMP WORK OCCURS AT THE INTERSECTION OF VAN VOORHIS ROAD AND WV 705.

THE OVERHEAD SIGNS ARE INSTALLED AT THIS INTERSECTION AND SOUTH OF WV 705.

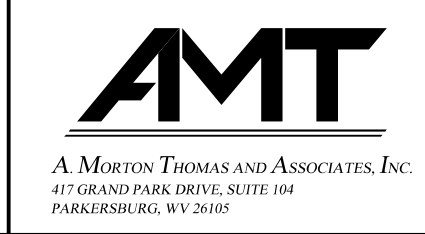
CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN CONTINUES.

CASE A12 WILL BE UTILIZED IN THIS PHASE.

TTCP-49

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE 4

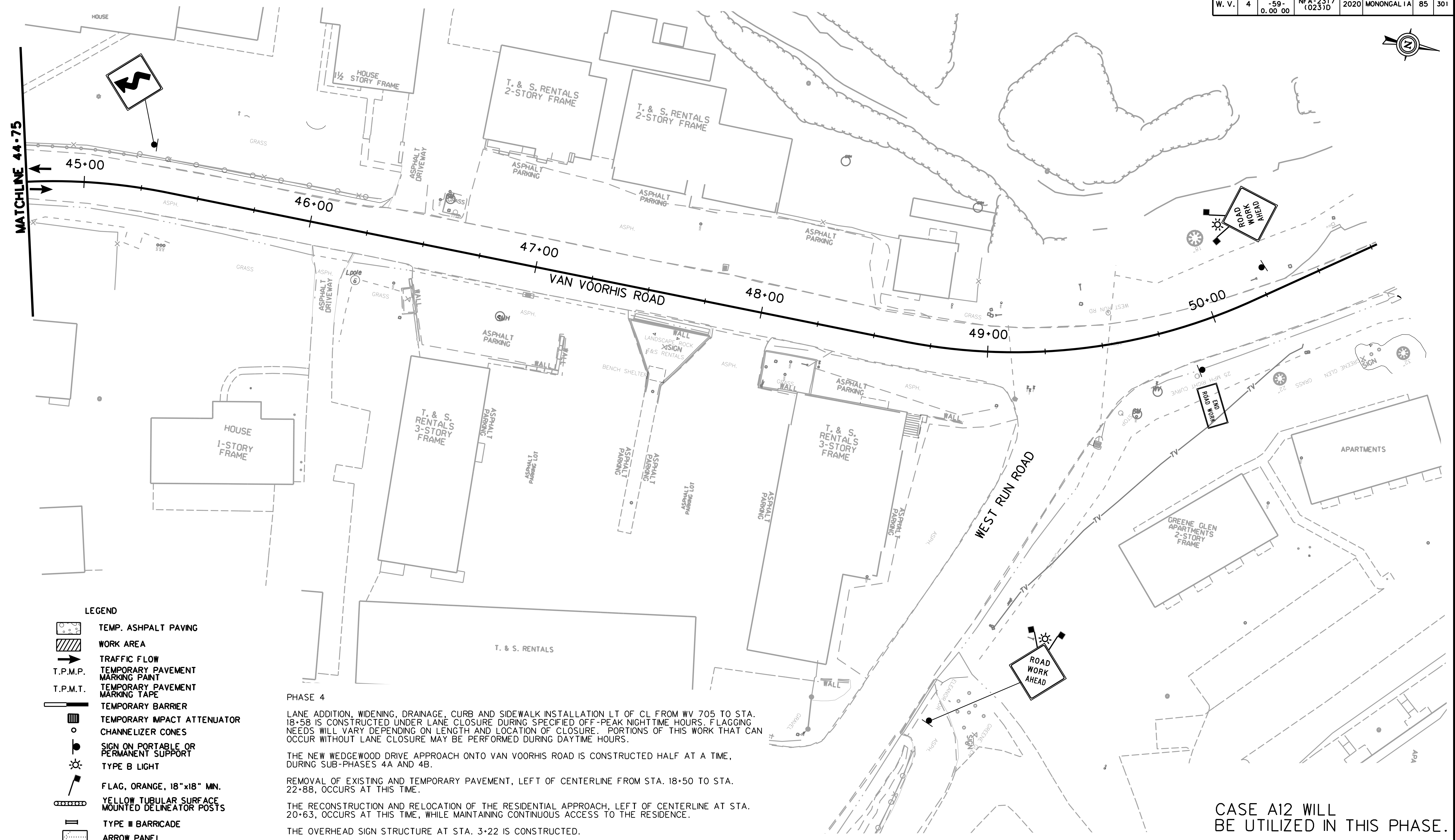
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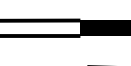


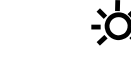

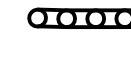

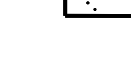


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	85	301



LEGEND

-  TEMP. ASPHALT PAVING
-  WORK AREA
-  TRAFFIC FLOW
-  T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
-  T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
-  TEMPORARY BARRIER
-  TEMPORARY IMPACT ATTENUATOR
-  CHANNELIZER CONES
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TYPE B LIGHT
-  FLAG, ORANGE, 18" x 18" MN.
-  YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
-  TYPE III BARRICADE
-  ARROW PANEL

PHASE 4

LANE ADDITION, WIDENING, DRAINAGE, CURB AND SIDEWALK INSTALLATION LT OF CL FROM WV 705 TO STA. 18+58 IS CONSTRUCTED UNDER LANE CLOSURE DURING SPECIFIED OFF-PEAK NIGHTTIME HOURS. FLAGGING NEEDS WILL VARY DEPENDING ON LENGTH AND LOCATION OF CLOSURE. PORTIONS OF THIS WORK THAT CAN OCCUR WITHOUT LANE CLOSURE MAY BE PERFORMED DURING DAYTIME HOURS.

THE NEW WEDGEWOOD DRIVE APPROACH ONTO VAN VOORHIS ROAD IS CONSTRUCTED HALF AT A TIME, DURING SUB-PHASES 4A AND 4B.

REMOVAL OF EXISTING AND TEMPORARY PAVEMENT, LEFT OF CENTERLINE FROM STA. 18+50 TO STA. 22+88, OCCURS AT THIS TIME.

THE RECONSTRUCTION AND RELOCATION OF THE RESIDENTIAL APPROACH, LEFT OF CENTERLINE AT STA. 20+63, OCCURS AT THIS TIME, WHILE MAINTAINING CONTINUOUS ACCESS TO THE RESIDENCE.

THE OVERHEAD SIGN STRUCTURE AT STA. 3+22 IS CONSTRUCTED.

TRAFFIC SIGNAL WORK AT THE WV 705 INTERSECTION OCCURS.

CONCRETE ISLAND, SIDEWALK AND ADA RAMP WORK OCCURS AT THE INTERSECTION OF VAN VOORHIS ROAD AND WV 705.

THE OVERHEAD SIGNS ARE INSTALLED AT THIS INTERSECTION AND SOUTH OF WV 705.

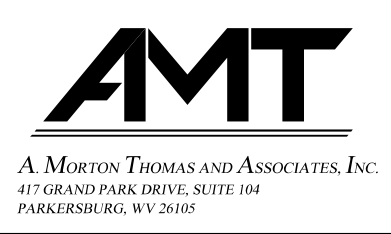
CONSTRUCTION OF THE NEW BRIDGE OVER WEST RUN CONTINUES.

SCALE : 0 20 ft.

CASE A12 WILL BE UTILIZED IN THIS PHASE.

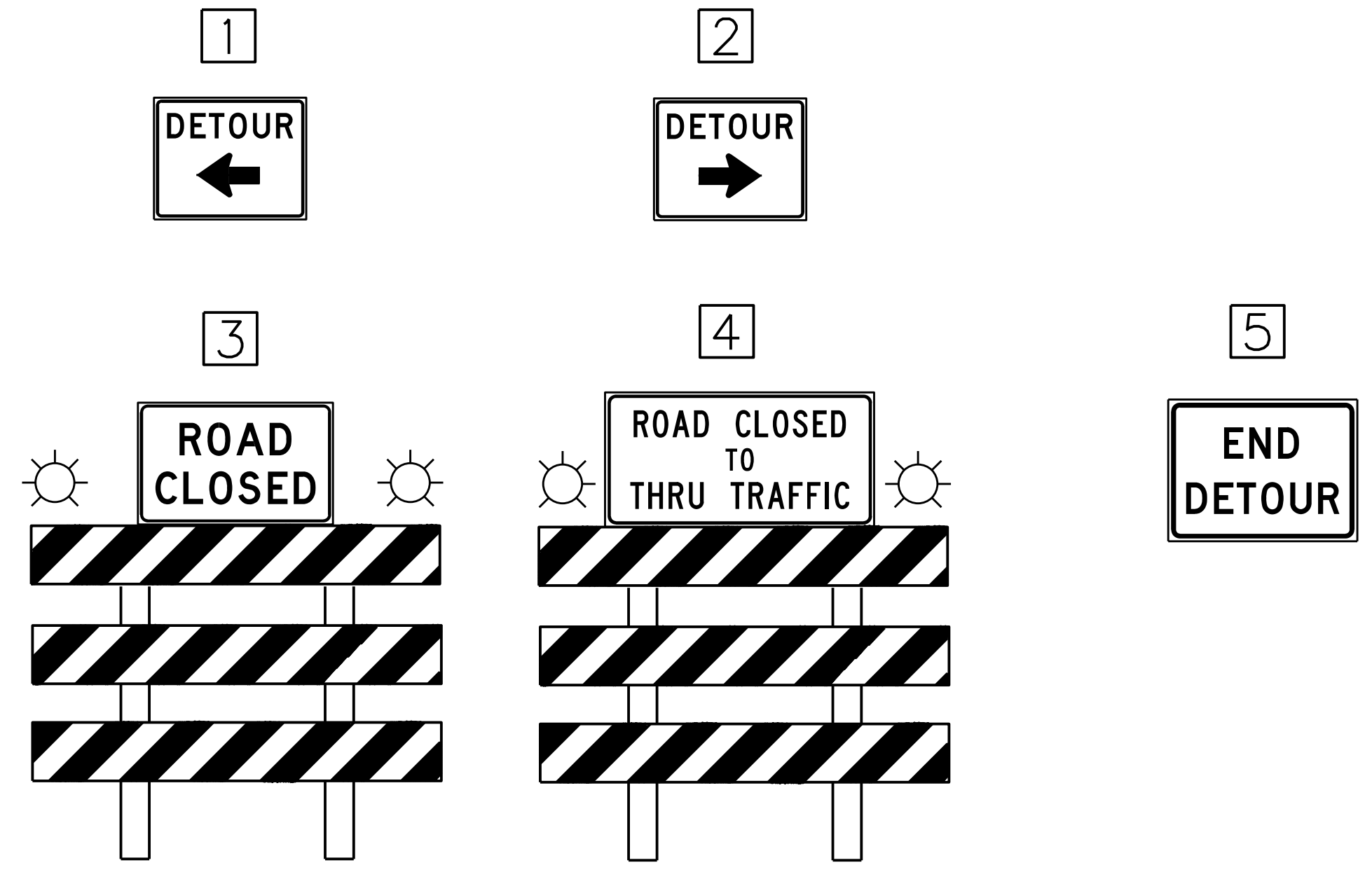
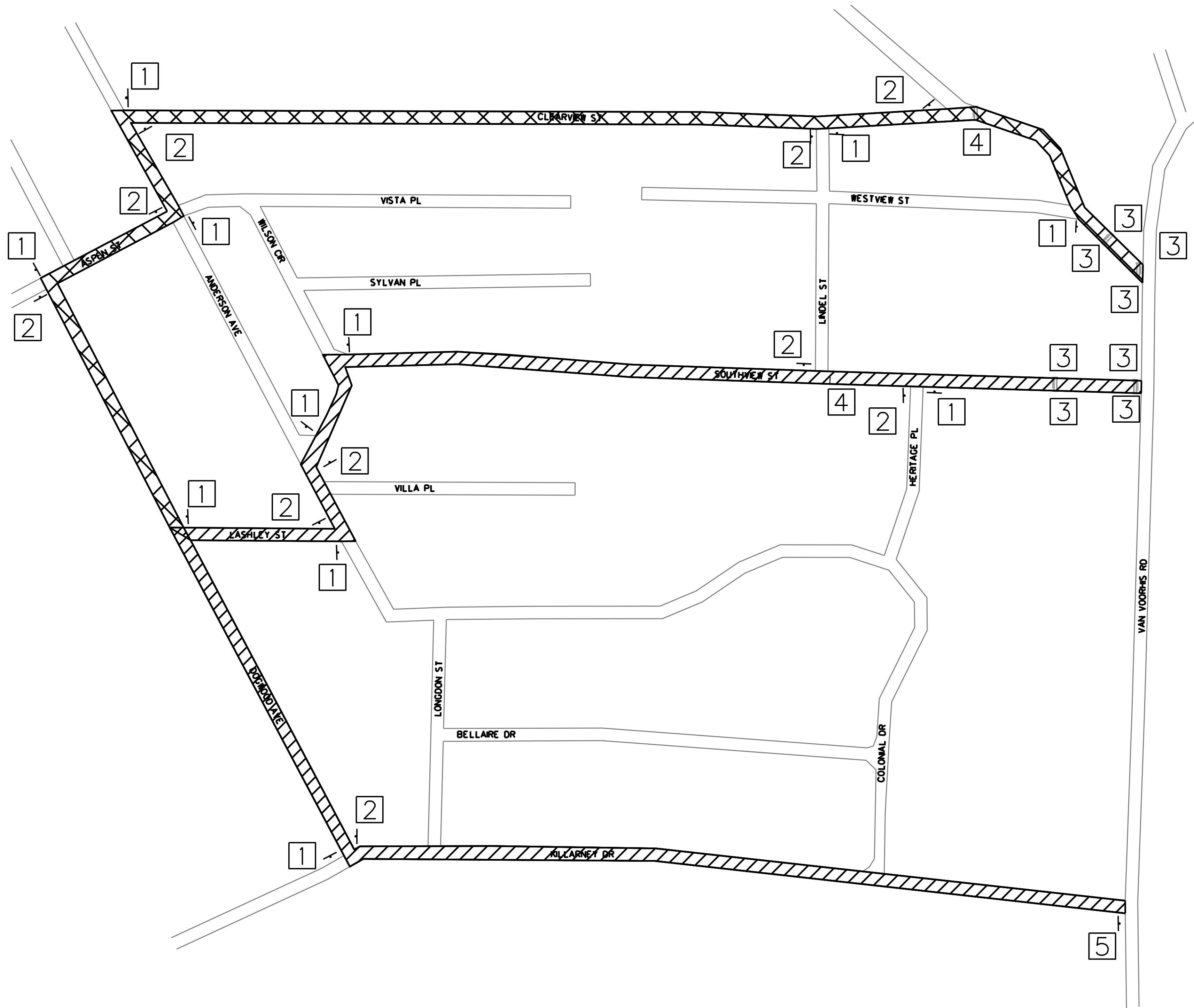
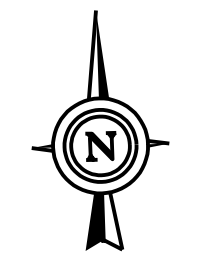
TTCP-50

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS - PHASE 4



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

SUBMITTED 6/29/2020



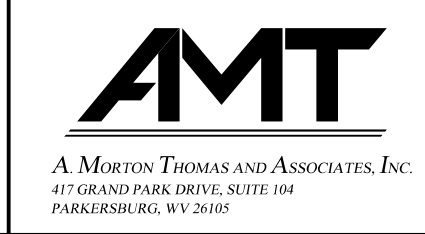
QUANTITY	FAB	SIGN	SIZE
11	M4-9L	DETOUR →	30" X24"
10	M4-9R	DETOUR ←	30" X24"
8	R11-2	ROAD CLOSED	48" X30"
2	R11-4	ROAD CLOSED TO THRU TRAFFIC	60" X30"
1	M4-8A	END DETOUR	24" X18"
	M5-1R		
	M6-1R		
	M6-3		

LEGEND

- CLEARVIEW DETOUR
- SOUTHWEST DETOUR
- DETOUR SIGN
- TYPE III BARRICADE

SUBMITTED 6/29/2020

SCALE : 0 20 ft.

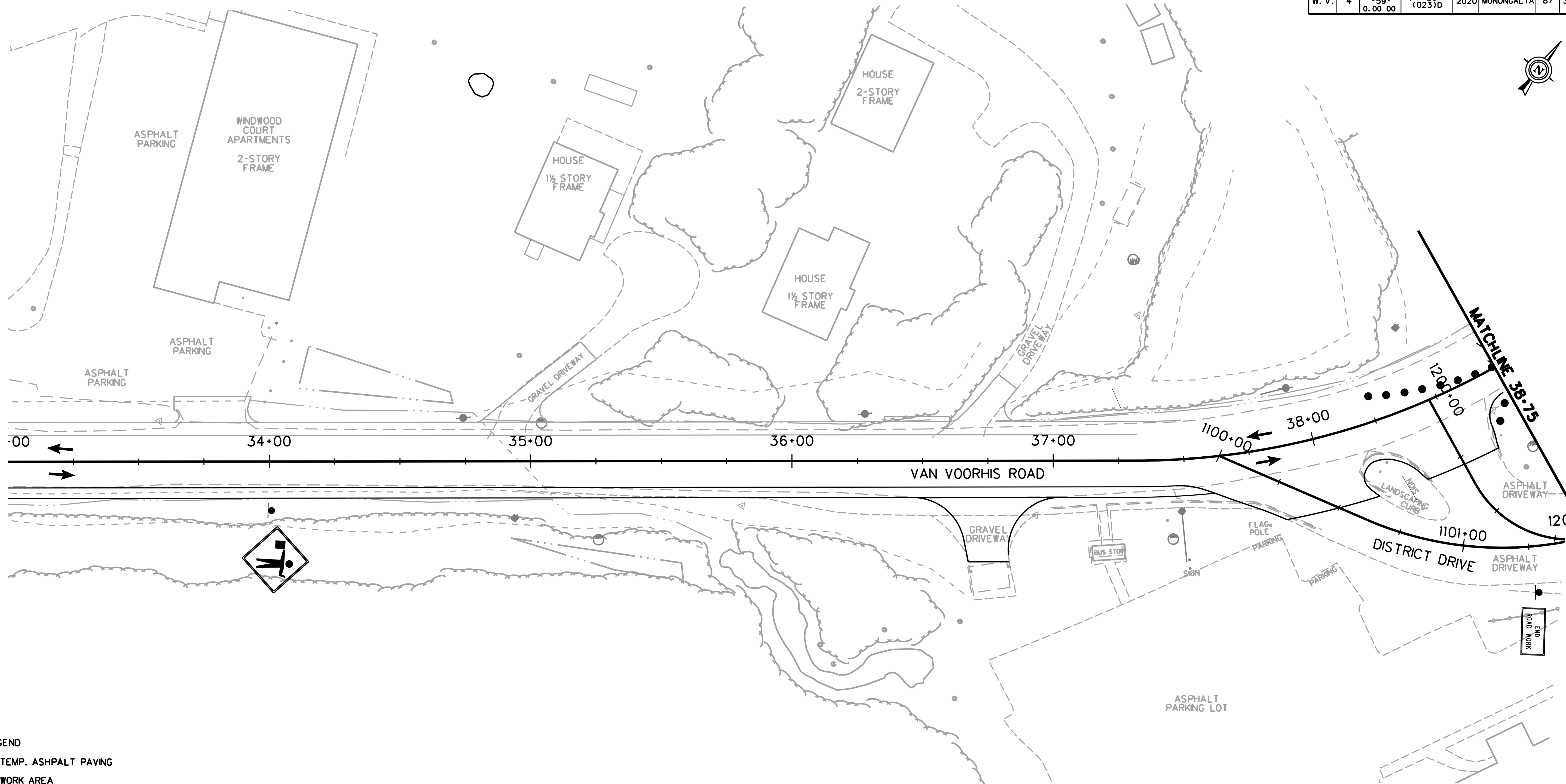


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
TTCP PLAN - PHASE 4 DETOUR
SOUTHWEST AND CLEARVIEW

TTCP-51

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	87	301



- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
 - T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
 - CHANNELIZER CONES
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE B LIGHT
 - FLAG, ORANGE, 18"x18" MIN.
 - YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
 - TYPE III BARRICADE
 - ARROW PANEL

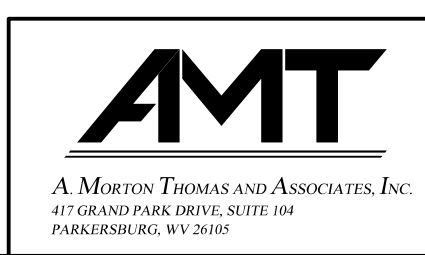
PHASE 5
 CONSTRUCT FULL DEPTH BRIDGE APPROACH RECONSTRUCTION, FROM APPROXIMATELY STA. 38+75 TO STA. 40+35, AND APPROXIMATELY STA. 43+00 TO STA. 44+50, DURING SUB-PHASES 5A AND 5B. WORK WILL BE PERFORMED UTILIZING ONE LANE TRAFFIC CONTROL. THIS WORK SHALL BEGIN DURING OFF-PEAK HOURS AND CONTINUE IN A NON-STOP OPERATION UNTIL COMPLETION. THIS WORK OPERATION SHALL BE LIMITED TO THE SEASON BEGINNING AT THE END OF WVU'S SPRING SEMESTER AND ENDING AT THE BEGINNING OF THE FALL SEMESTER. ADDITIONALLY EACH SESSION OF THE CONTINUOUS WORK OPERATION SHALL BE LIMITED TO A 72 HOUR DURATION.
 THE TEMPORARY BRIDGE AND DETOUR ARE REMOVED.

CASE A6 WILL BE UTILIZED IN THIS PHASE.

TTCP-52

SUBMITTED 6/29/2020

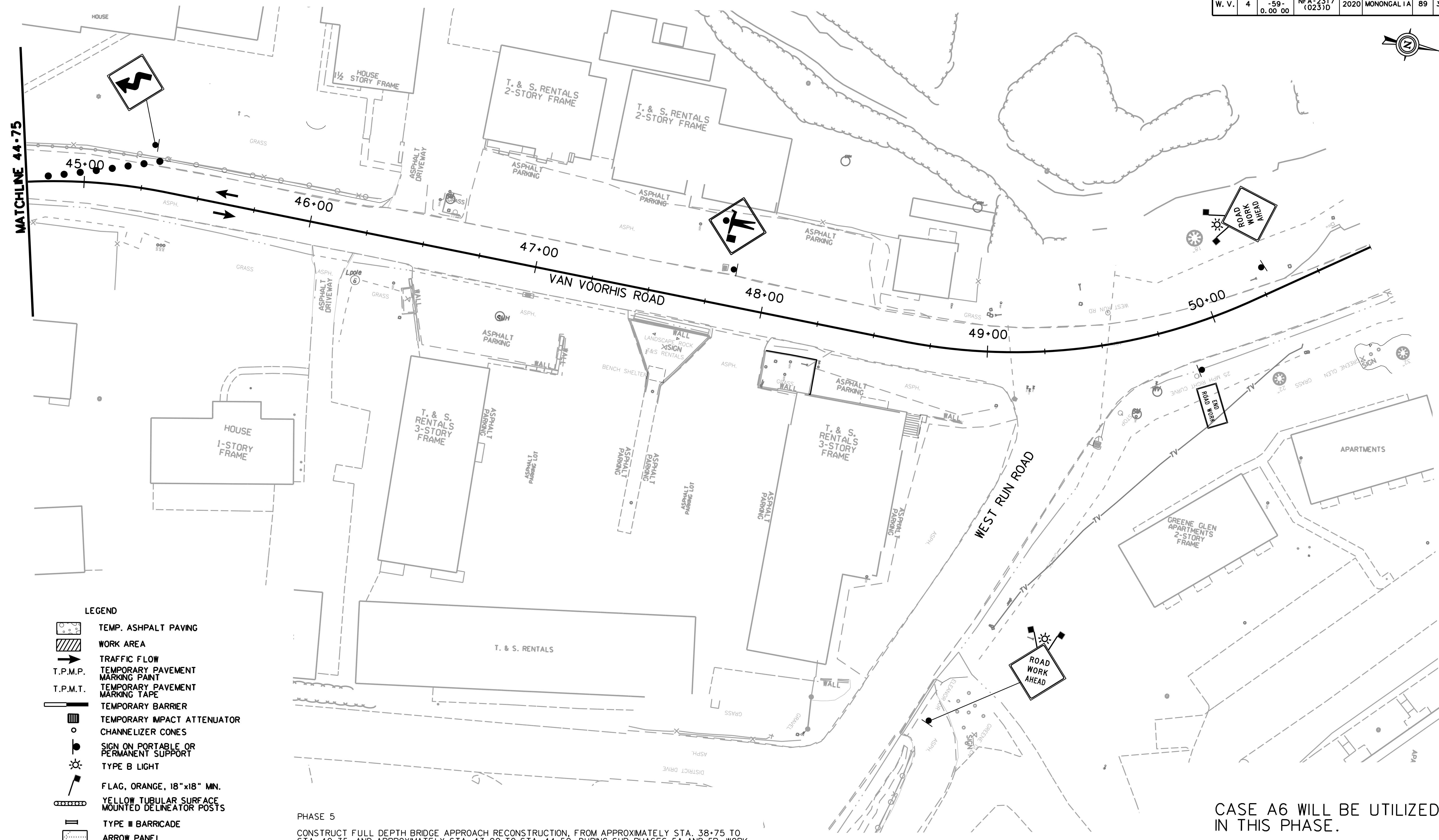
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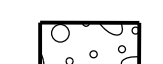








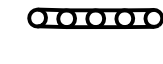
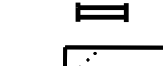



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS SUB-PHASE 5A

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	89	301



LEGEND

-  TEMP. ASPHALT PAVING
-  WORK AREA
-  TRAFFIC FLOW
-  T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
-  T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
-  TEMPORARY BARRIER
-  TEMPORARY IMPACT ATTENUATOR
-  CHANNELIZER CONES
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TYPE B LIGHT
-  FLAG, ORANGE, 18" x 18" MN.
-  YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
-  TYPE III BARRICADE
-  ARROW PANEL

PHASE 5

CONSTRUCT FULL DEPTH BRIDGE APPROACH RECONSTRUCTION, FROM APPROXIMATELY STA. 38+75 TO STA. 40+35, AND APPROXIMATELY STA. 43+00 TO STA. 44+50, DURING SUB-PHASES 5A AND 5B. WORK WILL BE PERFORMED UTILIZING ONE LANE TRAFFIC CONTROL. THIS WORK SHALL BEGIN DURING OFF-PEAK HOURS AND CONTINUE IN A NON-STOP OPERATION UNTIL COMPLETION. THIS WORK OPERATION SHALL BE LIMITED TO THE SEASON BEGINNING AT THE END OF WVU'S SPRING SEMESTER AND ENDING AT THE BEGINNING OF THE FALL SEMESTER. ADDITIONALLY EACH SESSION OF THE CONTINUOUS WORK OPERATION SHALL BE LIMITED TO A 72 HOUR DURATION.

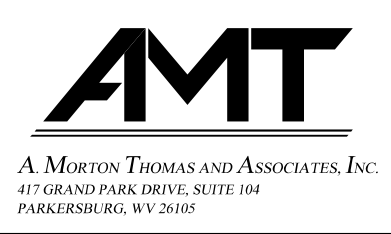
THE TEMPORARY BRIDGE AND DETOUR ARE REMOVED.

SCALE : 0 20 ft.

CASE A6 WILL BE UTILIZED IN THIS PHASE.

TTCP-54

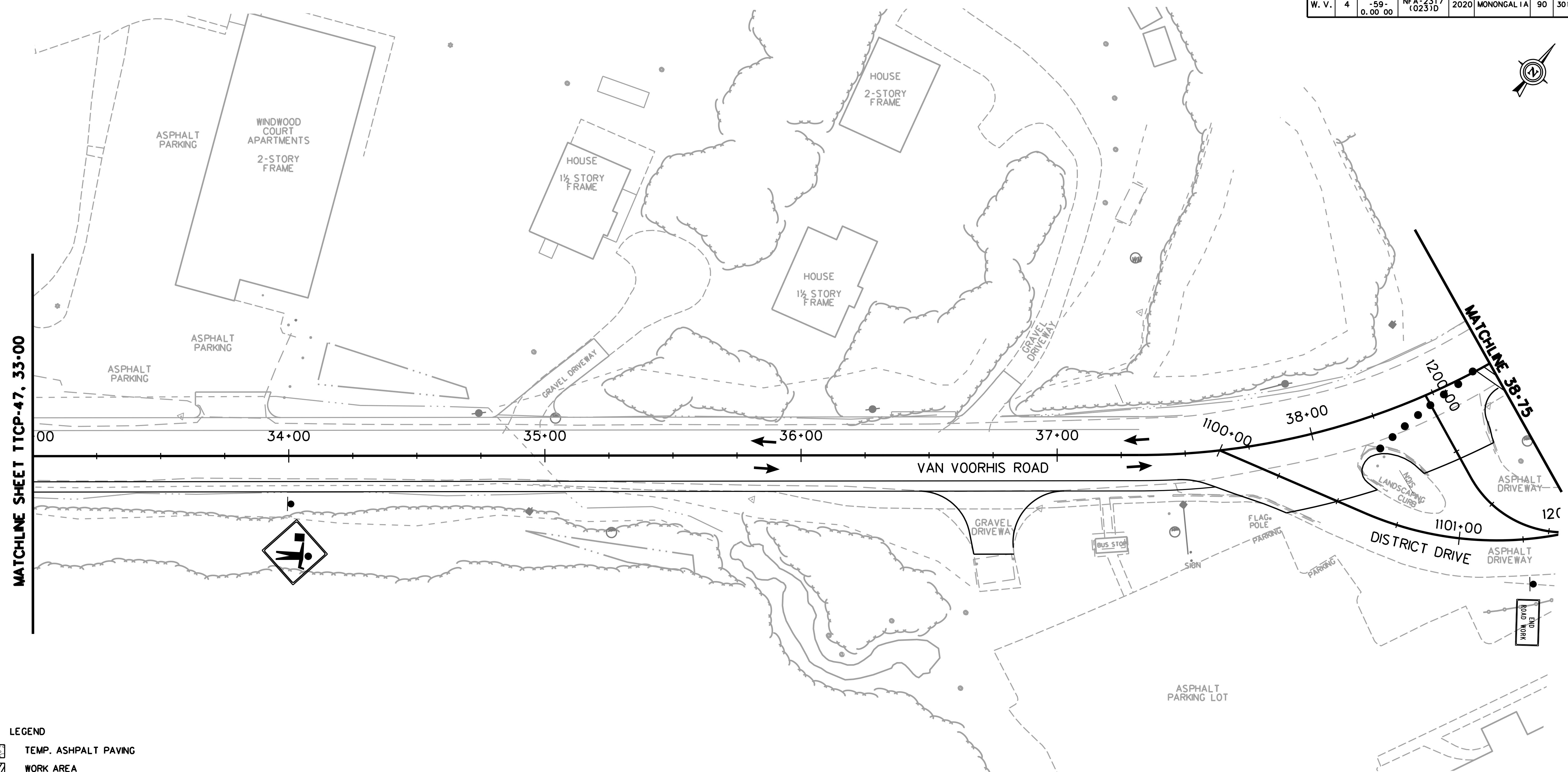
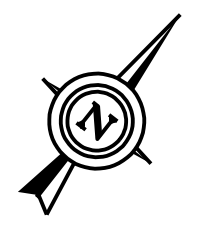
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS SUB-PHASE 5A



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	90	301



MATCHLINE SHEET TTCP-47, 33+00

MATCHLINE 38+75

- LEGEND**
- TEMP. ASPHALT PAVING
 - WORK AREA
 - TRAFFIC FLOW
 - T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
 - T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
 - TEMPORARY BARRIER
 - TEMPORARY IMPACT ATTENUATOR
 - CHANNELIZER CONES
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE B LIGHT
 - FLAG, ORANGE, 18"x18" MIN.
 - YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
 - TYPE III BARRICADE
 - ARROW PANEL

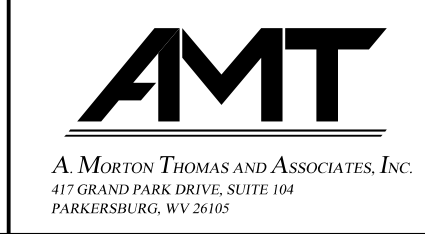
PHASE 5
 CONSTRUCT FULL DEPTH BRIDGE APPROACH RECONSTRUCTION, FROM APPROXIMATELY STA. 38+75 TO STA. 40+35, AND APPROXIMATELY STA. 43+00 TO STA. 44+50, DURING SUB-PHASES 5A AND 5B. WORK WILL BE PERFORMED UTILIZING ONE LANE TRAFFIC CONTROL. THIS WORK SHALL BEGIN DURING OFF-PEAK HOURS AND CONTINUE IN A NON-STOP OPERATION UNTIL COMPLETION. THIS WORK OPERATION SHALL BE LIMITED TO THE SEASON BEGINNING AT THE END OF WVU'S SPRING SEMESTER AND ENDING AT THE BEGINNING OF THE FALL SEMESTER. ADDITIONALLY EACH SESSION OF THE CONTINUOUS WORK OPERATION SHALL BE LIMITED TO A 72 HOUR DURATION.
 THE TEMPORARY BRIDGE AND DETOUR ARE REMOVED.

CASE A6 WILL BE UTILIZED IN THIS PHASE.

TTCP-55

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS SUB-PHASE 5B

SCALE : 0 20 ft.




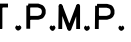









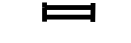


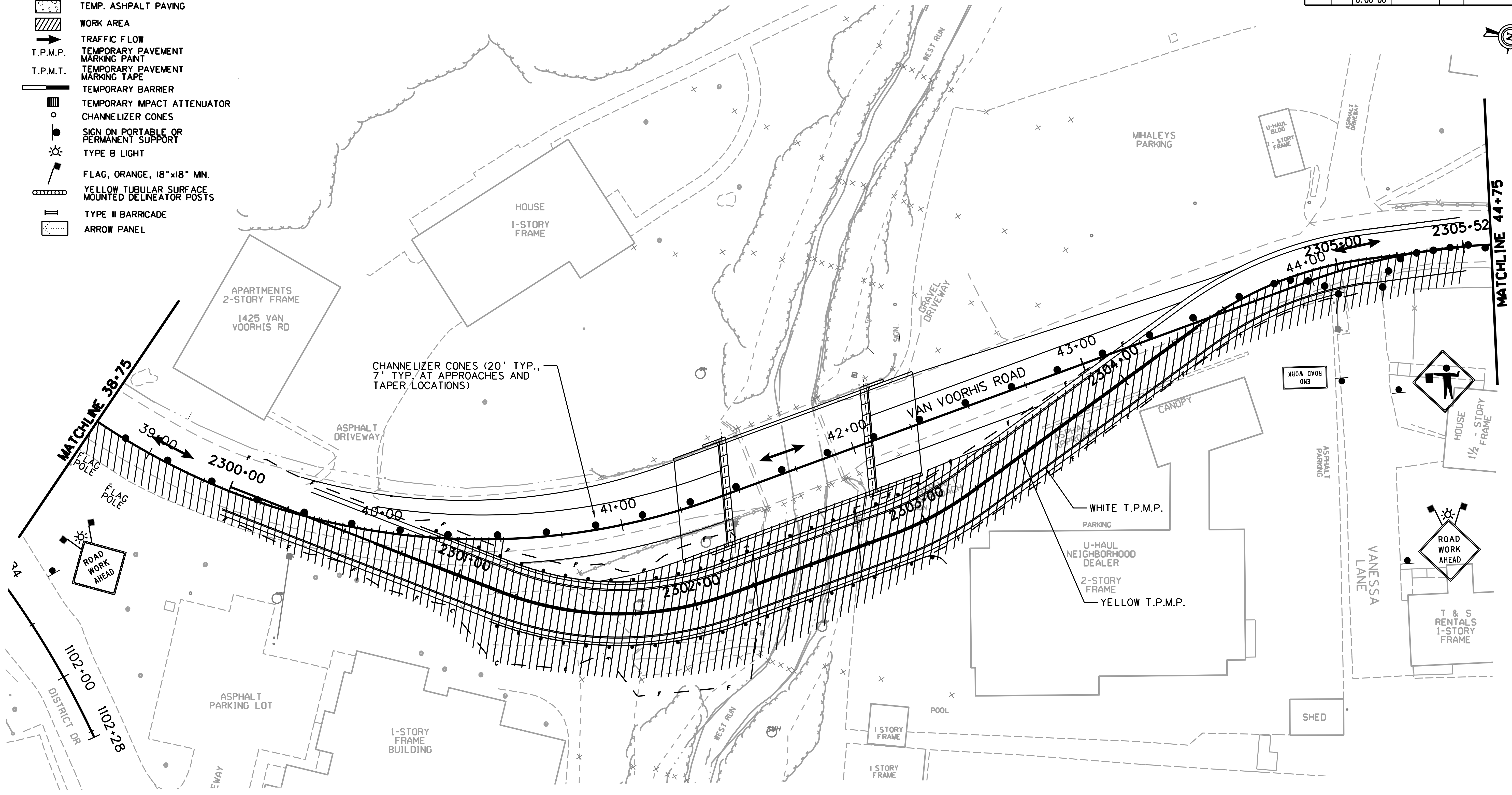
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00-00	NFA-2317 (0231D)	2020	MONONGALIA	91	301

LEGEND

-  TEMP. ASPHALT PAVING
-  WORK AREA
-  TRAFFIC FLOW
-  T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
-  T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
-  TEMPORARY BARRIER
-  TEMPORARY IMPACT ATTENUATOR
-  CHANNELIZER CONES
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TYPE B LIGHT
-  FLAG, ORANGE, 18"x18" MN.
-  YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
-  TYPE II BARRICADE
-  ARROW PANEL



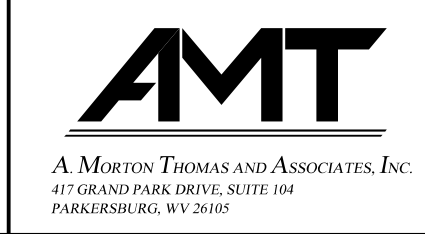
PHASE 5

CONSTRUCT FULL DEPTH BRIDGE APPROACH RECONSTRUCTION, FROM APPROXIMATELY STA. 38+75 TO STA. 40+35, AND APPROXIMATELY STA. 43+00 TO STA. 44+50, DURING SUB-PHASES 5A AND 5B. WORK WILL BE PERFORMED UTILIZING ONE LANE TRAFFIC CONTROL. THIS WORK SHALL BEGIN DURING OFF-PEAK HOURS AND CONTINUE IN A NON-STOP OPERATION UNTIL COMPLETION. THIS WORK OPERATION SHALL BE LIMITED TO THE SEASON BEGINNING AT THE END OF WVU'S SPRING SEMESTER AND ENDING AT THE BEGINNING OF THE FALL SEMESTER. ADDITIONALLY EACH SESSION OF THE CONTINUOUS WORK OPERATION SHALL BE LIMITED TO A 72 HOUR DURATION.

THE TEMPORARY BRIDGE AND DETOUR ARE REMOVED.

CASE A6 WILL BE UTILIZED IN THIS PHASE.

SCALE : 0 20 ft.



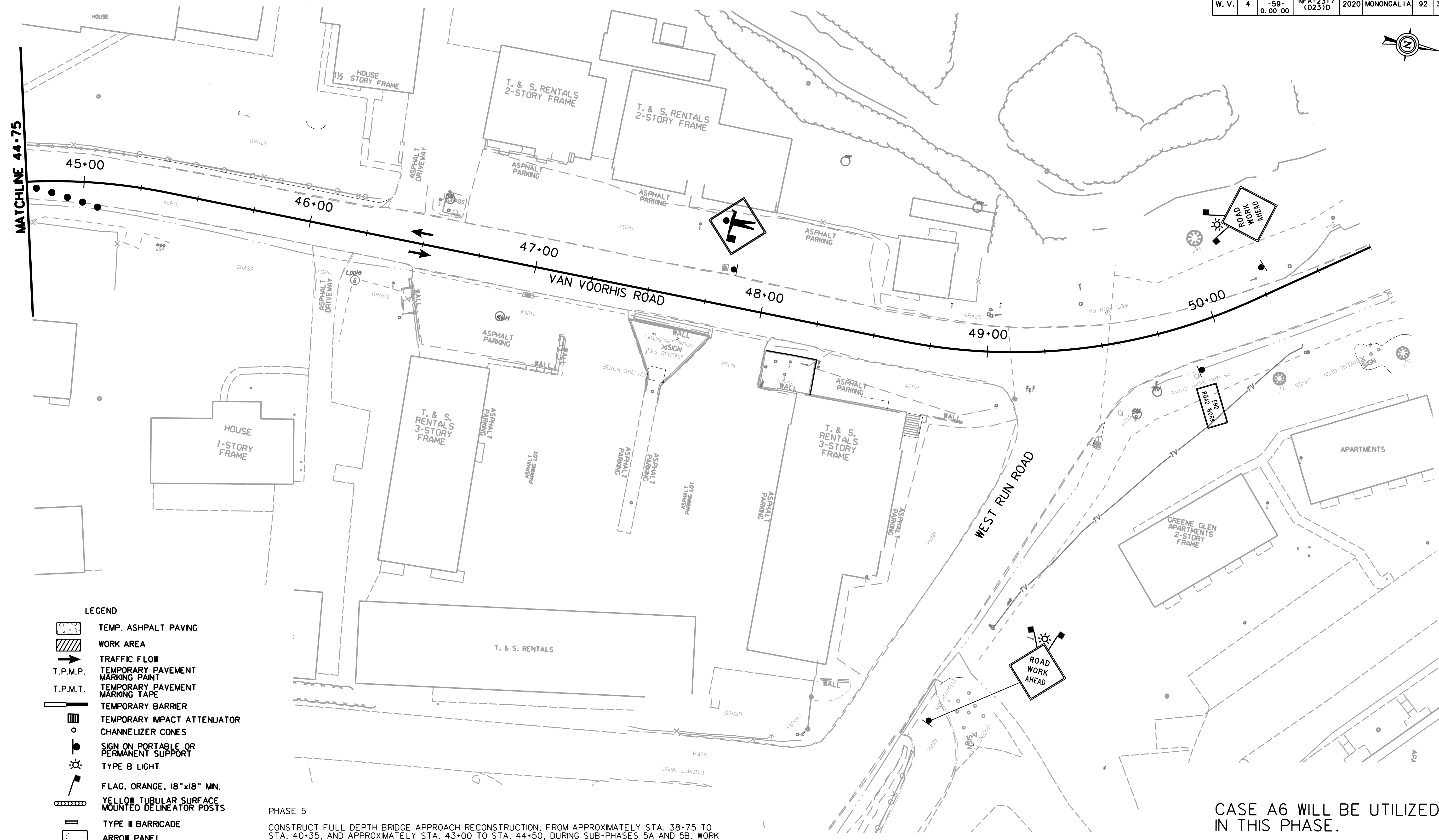
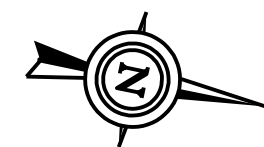
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

TTCP-56

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS SUB-PHASE 5B

SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	92	301



LEGEND

- TEMP. ASPHALT PAVING
- WORK AREA
- TRAFFIC FLOW
- T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
- T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
- TEMPORARY BARRIER
- TEMPORARY IMPACT ATTENUATOR
- CHANNELIZER CONES
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE B LIGHT
- FLAG, ORANGE, 18" x 18" MN.
- YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
- TYPE III BARRICADE
- ARROW PANEL

PHASE 5

CONSTRUCT FULL DEPTH BRIDGE APPROACH RECONSTRUCTION, FROM APPROXIMATELY STA. 38+75 TO STA. 40+35, AND APPROXIMATELY STA. 43+00 TO STA. 44+50, DURING SUB-PHASES 5A AND 5B. WORK WILL BE PERFORMED UTILIZING ONE LANE TRAFFIC CONTROL. THIS WORK SHALL BEGIN DURING OFF-PEAK HOURS AND CONTINUE IN A NON-STOP OPERATION UNTIL COMPLETION. THIS WORK OPERATION SHALL BE LIMITED TO THE SEASON BEGINNING AT THE END OF WVU'S SPRING SEMESTER AND ENDING AT THE BEGINNING OF THE FALL SEMESTER. ADDITIONALLY EACH SESSION OF THE CONTINUOUS WORK OPERATION SHALL BE LIMITED TO A 72 HOUR DURATION.

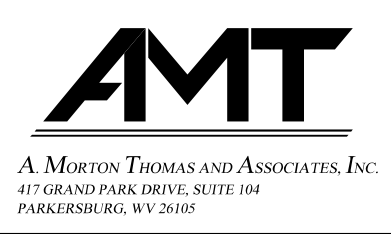
THE TEMPORARY BRIDGE AND DETOUR ARE REMOVED.

SCALE : 0 20 FT.

CASE A6 WILL BE UTILIZED IN THIS PHASE.

TTCP-57

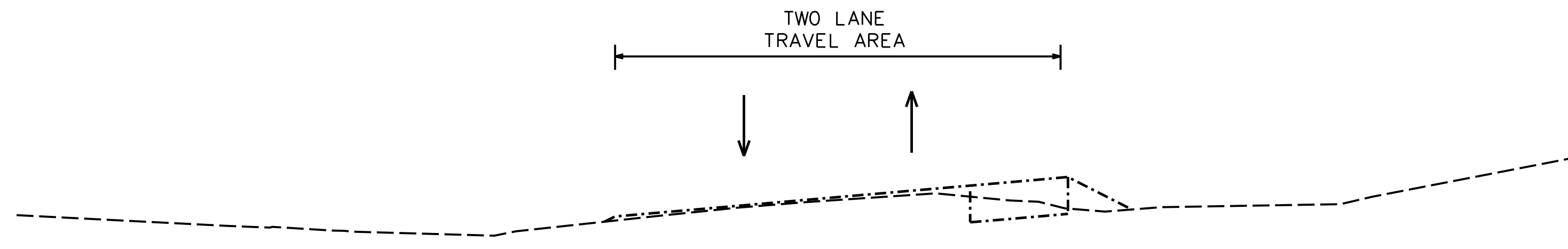
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS SUB-PHASE 5B



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-00.00 00	NFA-2317 (0237D)	2020	MONONGALIA	93	301

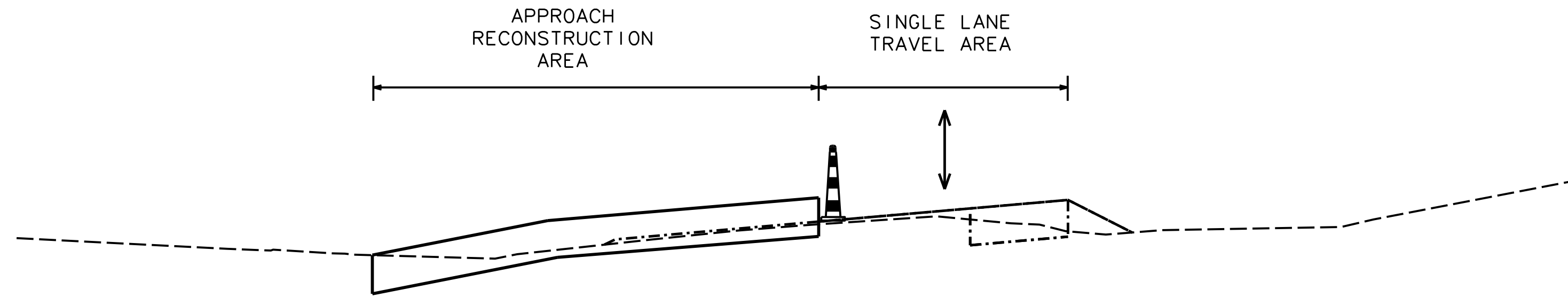


AT END OF PHASE 4

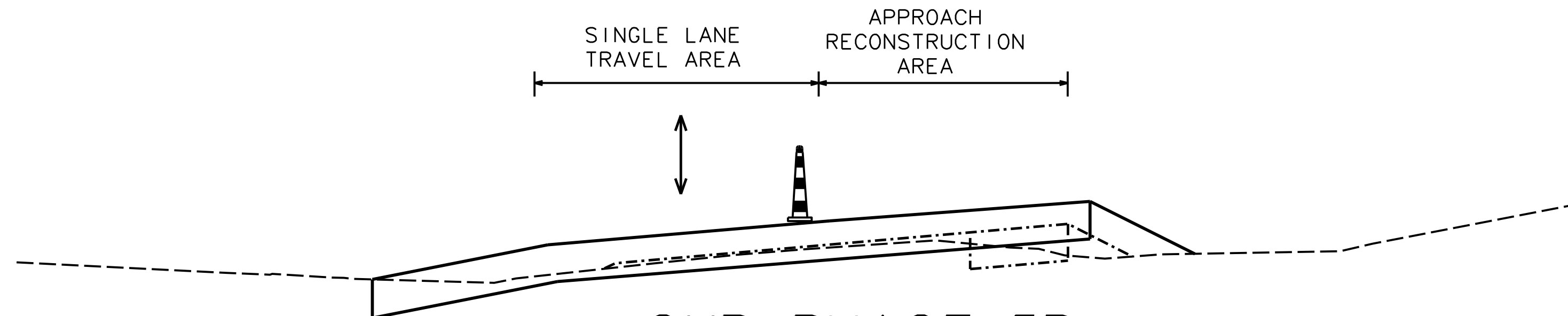
PHASE 5

CONSTRUCT FULL DEPTH BRIDGE APPROACH RECONSTRUCTION, FROM APPROXIMATELY STA. 38+75 TO STA. 40+35, AND APPROXIMATELY STA. 43+00 TO STA. 44+50, DURING SUB-PHASES 5A AND 5B. WORK WILL BE PERFORMED UTILIZING ONE LANE TRAFFIC CONTROL. THIS WORK SHALL BEGIN DURING OFF-PEAK HOURS AND CONTINUE IN A NON-STOP OPERATION UNTIL COMPLETION. THIS WORK OPERATION SHALL BE LIMITED TO THE SEASON BEGINNING AT THE END OF WVU'S SPRING SEMESTER AND ENDING AT THE BEGINNING OF THE FALL SEMESTER. ADDITIONALLY EACH SESSION OF THE CONTINUOUS WORK OPERATION SHALL BE LIMITED TO A 72 HOUR DURATION.

THE TEMPORARY BRIDGE AND DETOUR ARE REMOVED.



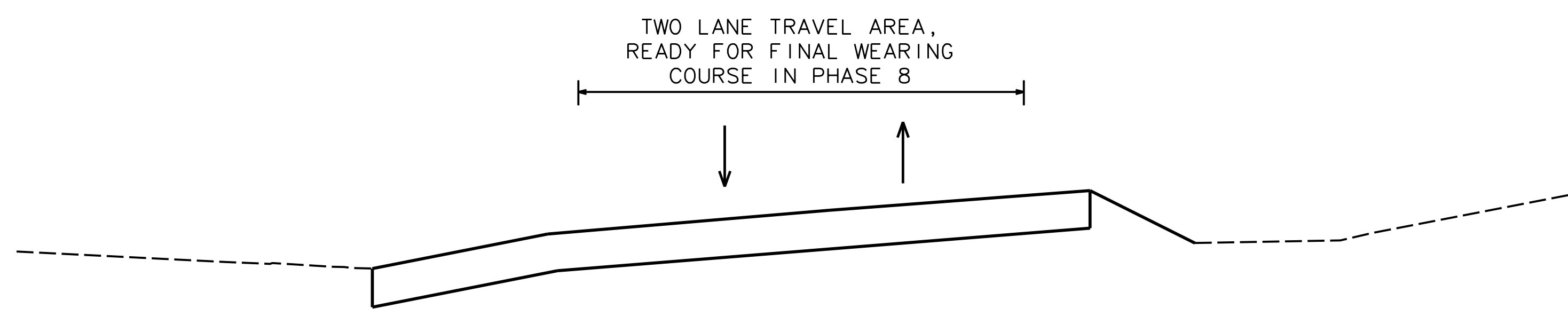
SUB-PHASE 5A



SUB-PHASE 5B

LEGEND

- EXISTING ROADWAY -----
- DETOUR ROADWAY - - - - -
- NEW ROADWAY _____

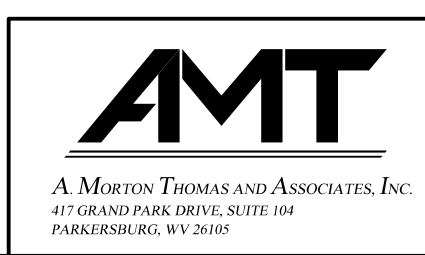


AT END OF PHASE 5

CASE A6 WILL BE UTILIZED FOR THIS WORK.

TTCP-58

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**MOT STAGING TYPICAL
BRIDGE APPROACHS**











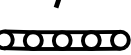





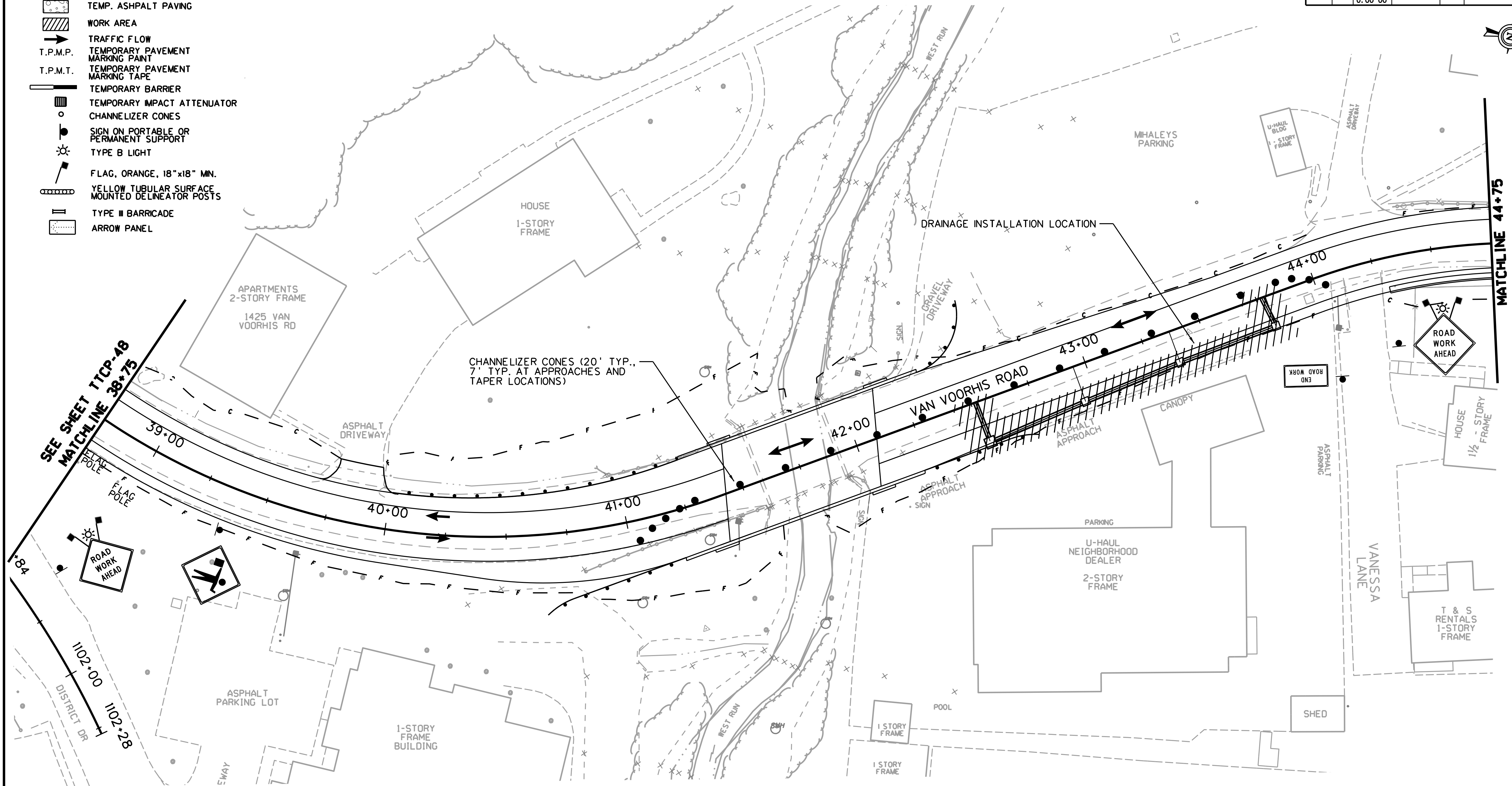
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00-00	NFA-2317 (0231D)	2020	MONONGALIA	94	301

LEGEND

-  TEMP. ASPHALT PAVING
-  WORK AREA
-  TRAFFIC FLOW
-  T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
-  T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
-  TEMPORARY BARRIER
-  TEMPORARY IMPACT ATTENUATOR
-  CHANNELIZER CONES
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TYPE B LIGHT
-  FLAG, ORANGE, 18"x18" MN.
-  YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
-  TYPE II BARRICADE
-  ARROW PANEL



PHASE 6

DRAINAGE INFRASTRUCTURE IS CONSTRUCTED NORTH OF THE NEW BRIDGE, FROM STA. 42+05 TO STA. 43+85, IN SUB-PHASES 6A AND 6B. ONE LANE TRAFFIC CONTROL WILL BE REQUIRED, WITH CLOSURES LIMITED TO OFF PEAK HOURS.

CASE A6 WILL BE UTILIZED IN THIS SUB-PHASE.

SUBMITTED 6/29/2020

SCALE : 0 20 ft.



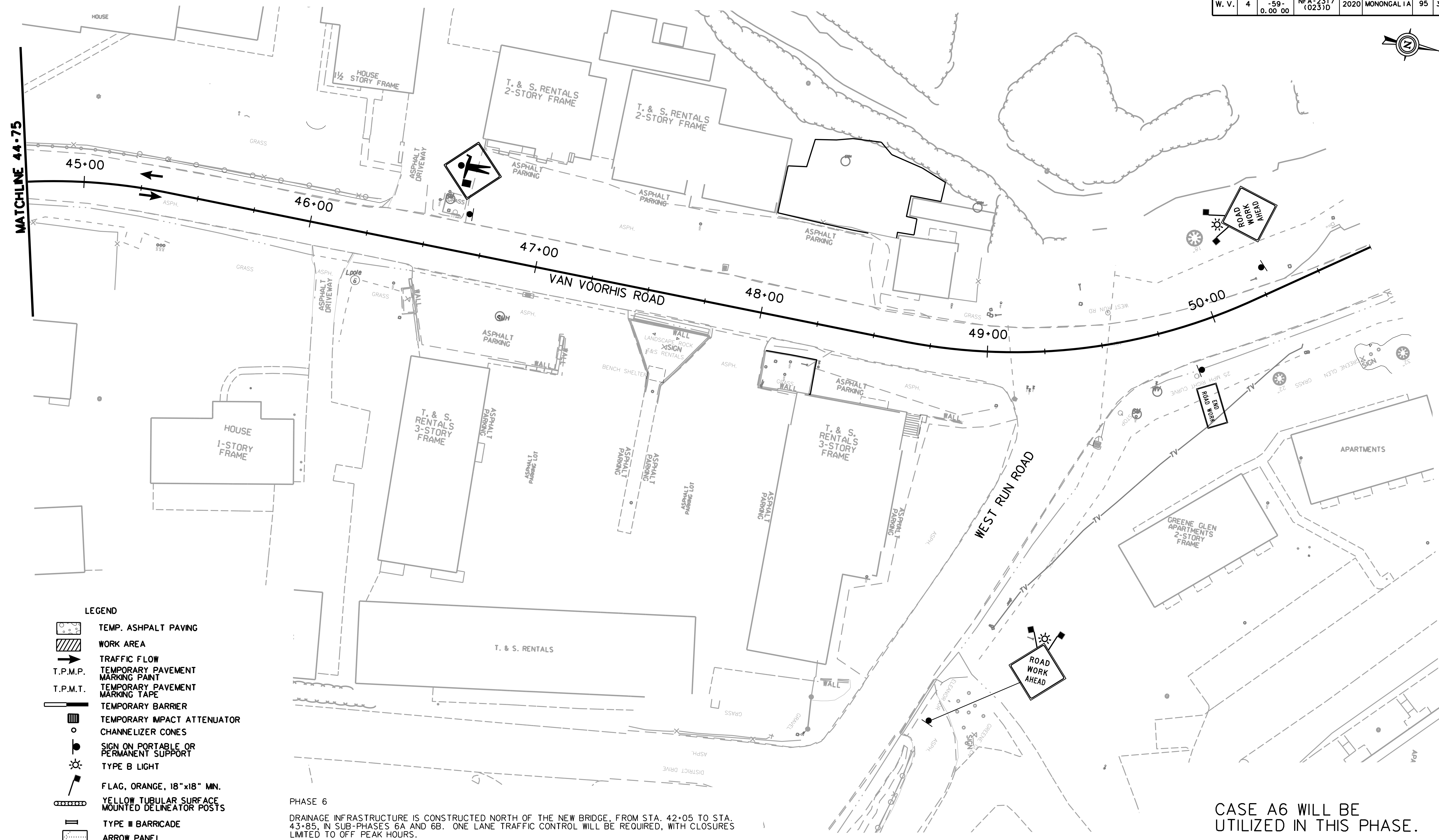
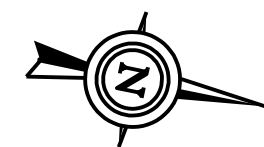
A. MORTON THOMAS AND ASSOCIATES, INC.
417 GRAND PARK DRIVE, SUITE 104
PARKERSBURG, WV 26101

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY





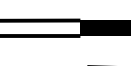


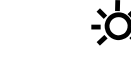

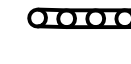

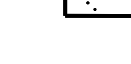


TTCP-59

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS SUB-PHASE 6A

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	95	301



LEGEND

-  TEMP. ASPHALT PAVING
-  WORK AREA
-  TRAFFIC FLOW
-  T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
-  T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
-  TEMPORARY BARRIER
-  TEMPORARY IMPACT ATTENUATOR
-  CHANNELIZER CONES
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TYPE B LIGHT
-  FLAG, ORANGE, 18"x18" MN.
-  YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
-  TYPE III BARRICADE
-  ARROW PANEL

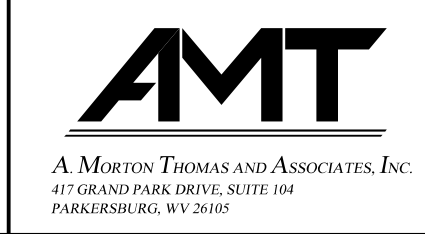
PHASE 6
 DRAINAGE INFRASTRUCTURE IS CONSTRUCTED NORTH OF THE NEW BRIDGE, FROM STA. 42+05 TO STA. 43+85, IN SUB-PHASES 6A AND 6B. ONE LANE TRAFFIC CONTROL WILL BE REQUIRED, WITH CLOSURES LIMITED TO OFF PEAK HOURS.

CASE A6 WILL BE UTILIZED IN THIS PHASE.

TTCP-60

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS SUB-PHASE 6A

SCALE : 0 20 ft.










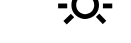

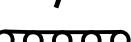

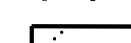


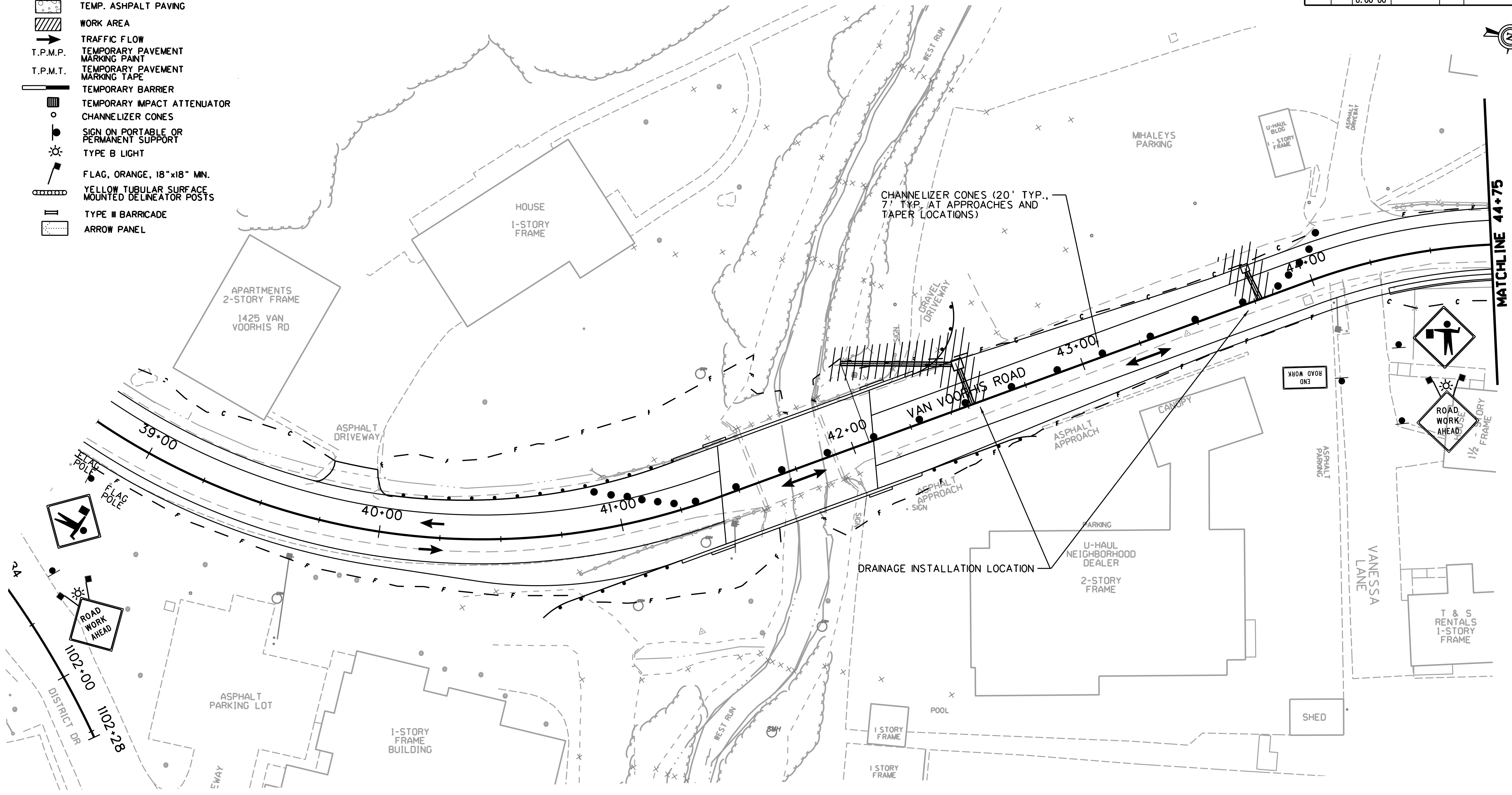
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	96	301

LEGEND

-  TEMP. ASPHALT PAVING
-  WORK AREA
-  TRAFFIC FLOW
-  T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
-  T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
-  TEMPORARY BARRIER
-  TEMPORARY IMPACT ATTENUATOR
-  CHANNELIZER CONES
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TYPE B LIGHT
-  FLAG, ORANGE, 18"x18" MN.
-  YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
-  TYPE III BARRICADE
-  ARROW PANEL

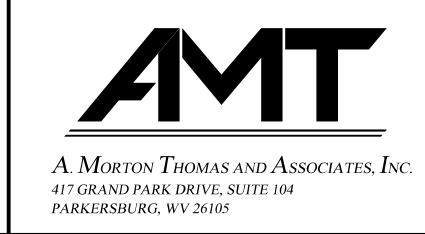


PHASE 6
 DRAINAGE INFRASTRUCTURE IS CONSTRUCTED NORTH OF THE NEW BRIDGE, FROM STA. 42+05 TO STA. 43+85, IN SUB-PHASES 6A AND 6B. ONE LANE TRAFFIC CONTROL WILL BE REQUIRED, WITH CLOSURES LIMITED TO OFF PEAK HOURS.

CASE A6 WILL BE UTILIZED IN THIS SUB-PHASE.

SUBMITTED 6/29/2020

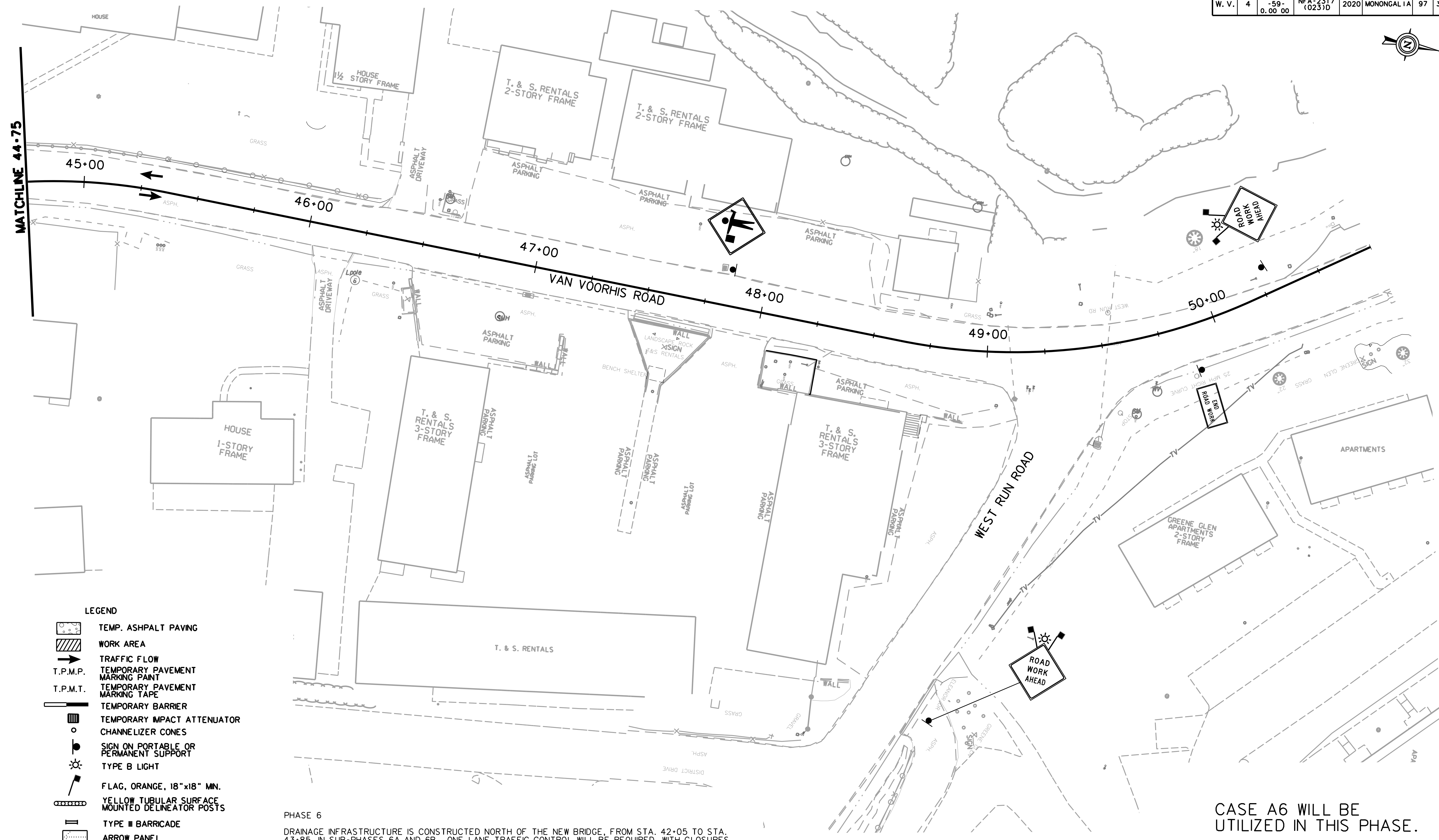
SCALE : 0 20 ft.







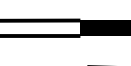


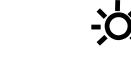

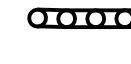

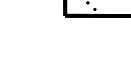


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

TTCP-61
 THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS SUB-PHASE 6B

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	97	301



LEGEND

-  TEMP. ASPHALT PAVING
-  WORK AREA
-  TRAFFIC FLOW
-  T.P.M.P. TEMPORARY PAVEMENT MARKING PAINT
-  T.P.M.T. TEMPORARY PAVEMENT MARKING TAPE
-  TEMPORARY BARRIER
-  TEMPORARY IMPACT ATTENUATOR
-  CHANNELIZER CONES
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TYPE B LIGHT
-  FLAG, ORANGE, 18"x18" MIN.
-  YELLOW TUBULAR SURFACE MOUNTED DELINEATOR POSTS
-  TYPE III BARRICADE
-  ARROW PANEL

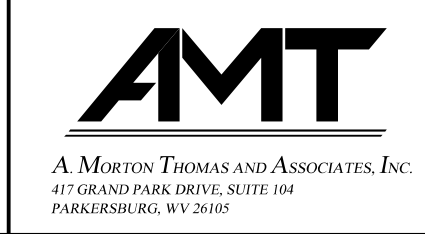
PHASE 6
 DRAINAGE INFRASTRUCTURE IS CONSTRUCTED NORTH OF THE NEW BRIDGE, FROM STA. 42+05 TO STA. 43+85, IN SUB-PHASES 6A AND 6B. ONE LANE TRAFFIC CONTROL WILL BE REQUIRED, WITH CLOSURES LIMITED TO OFF PEAK HOURS.

CASE A6 WILL BE UTILIZED IN THIS PHASE.

TTCP-62

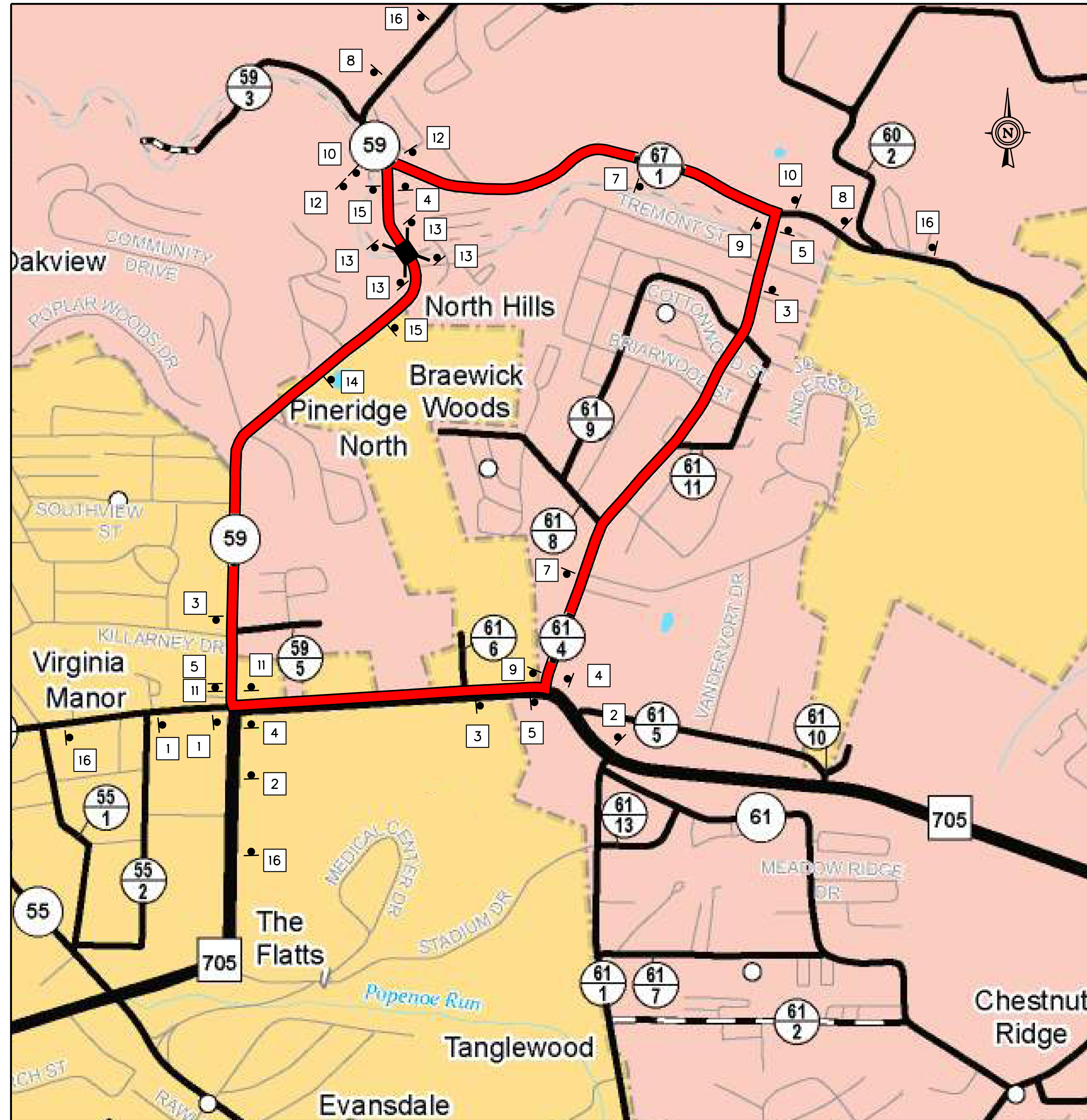
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
TEMPORARY TRAFFIC CONTROL PLANS SUB-PHASE 6B

SCALE : 0 20 ft.

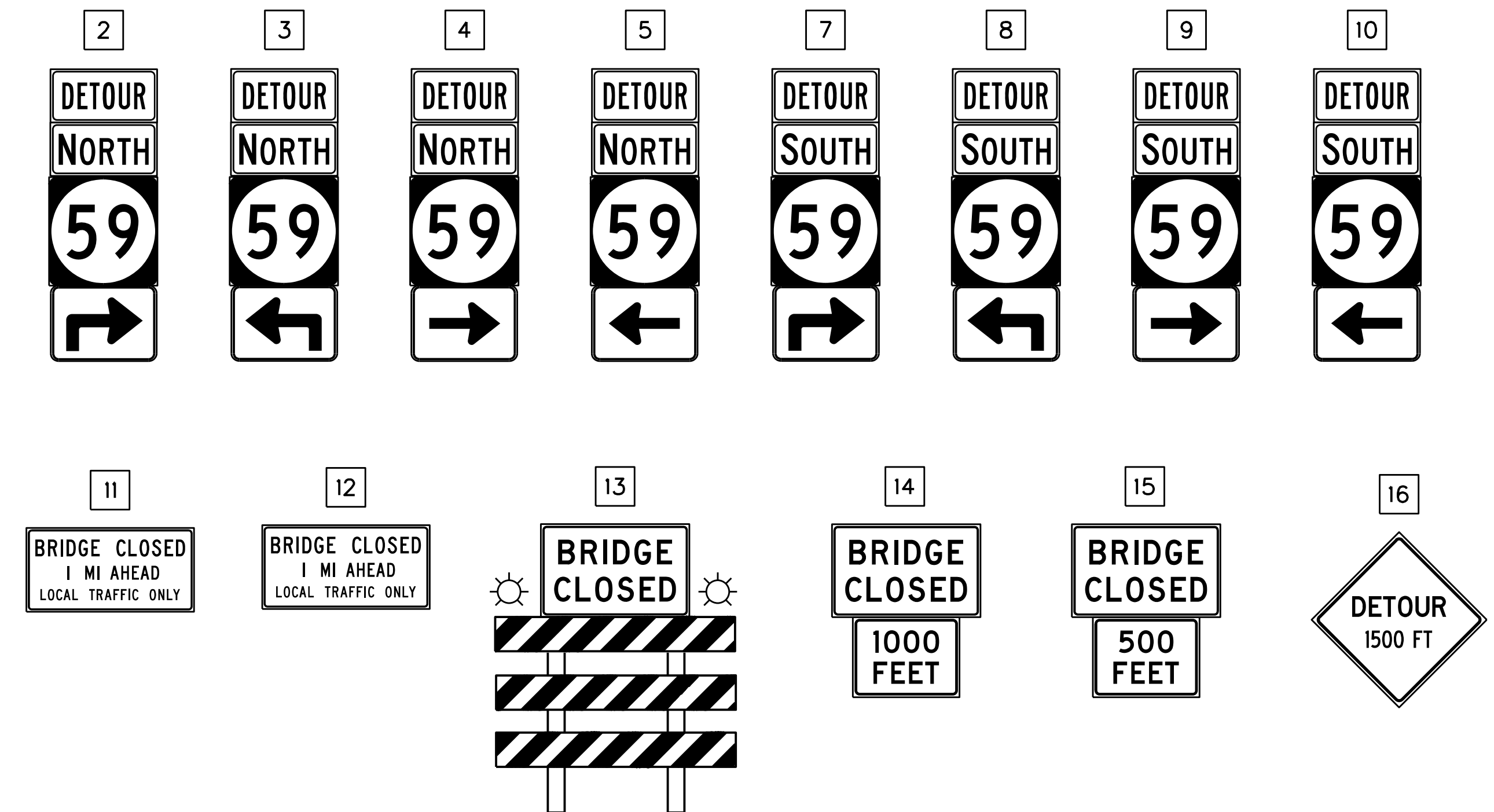


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

SUBMITTED 6/29/2020



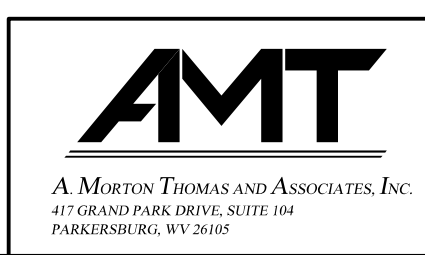
QTY	FAB	SIGN	SIZE	ITEM 661001-001 0.080 IN FLAT SHEET SIGN	ITEM 657010-001 3.00 LB CHANNEL POST	
21	M1-5	59	21" x15"	45.9		
13	M3-1A	NORTH	24" x12"	26.0	21 ASSEMBLIES AT 19.5' EACH	
8	M3-3A	SOUTH	24" x12"	16.0		
21	M4-8	DETOUR	24" x12"	42.0		
5	M5-1L	←	21" x15"	10.9		
4	M5-1R	→	21" x15"	8.8		
7	M6-1R	→	21" x15"	15.3		
7	M6-1L	←	21" x15"	15.3		
2	M6-3	↑	21" x15"	4.4		
7	R11-2A	BRIDGE CLOSED	48" x30"	70.0		0.0
4	R11-3B	BRIDGE CLOSED AHEAD LOCAL TRAFFIC ONLY	60" x30"	50.0		52.0
2	W5-7	500 FEET	24" x18"	6.0	24.0	
1	W5-7A	1000 FEET	24" x18"	3.0	12.0	
4	W20-2	DETOUR 1500 FT	36" x36"	36.0	54.0	
SHEET TOTALS				349.6	551.5	



LEGEND

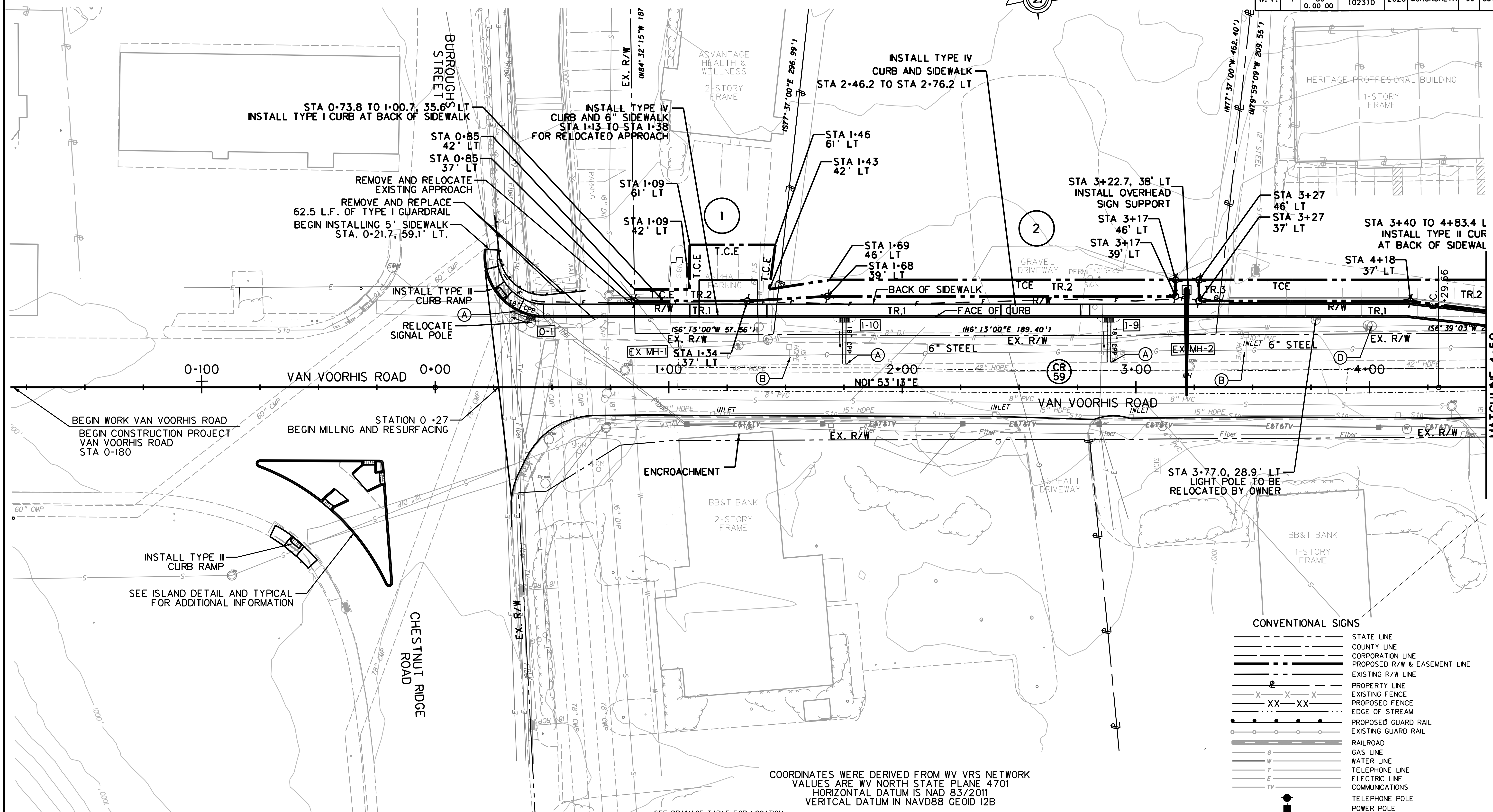
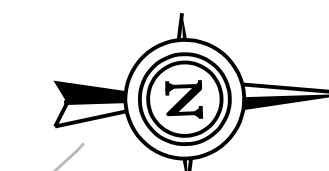
- BRIDGE LOCATION
- DETOUR ROUTE
- DETOUR SIGN TYPE

SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

TTCP-63
 THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
**TRAFFIC ROUTING
 CONTINGENCY PLAN**



CURVE DATA

ALIGNMENT	CURVE	P. I. STA.	DELTA	Dc	RADIUS	LENGTH	TANGENT	EXTERNAL
VAN VOORHIS	C25	4+71.59	3°12'07"	3°49'11"	1500.00	83.8288	41.9253	0.5858

LEGEND

(A)	FIELD CONNECTION TO EXISTING DRAINAGE
(B)	ABANDON EXISTING DRAINAGE
(C)	REMOVE EXISTING DRAINAGE
(D)	ADJUST MANHOLE TYPE A
[2-1]	PROPOSED DRAINAGE STRUCTURE

SCALE : 0 20 ft.



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

CONVENTIONAL SIGNS

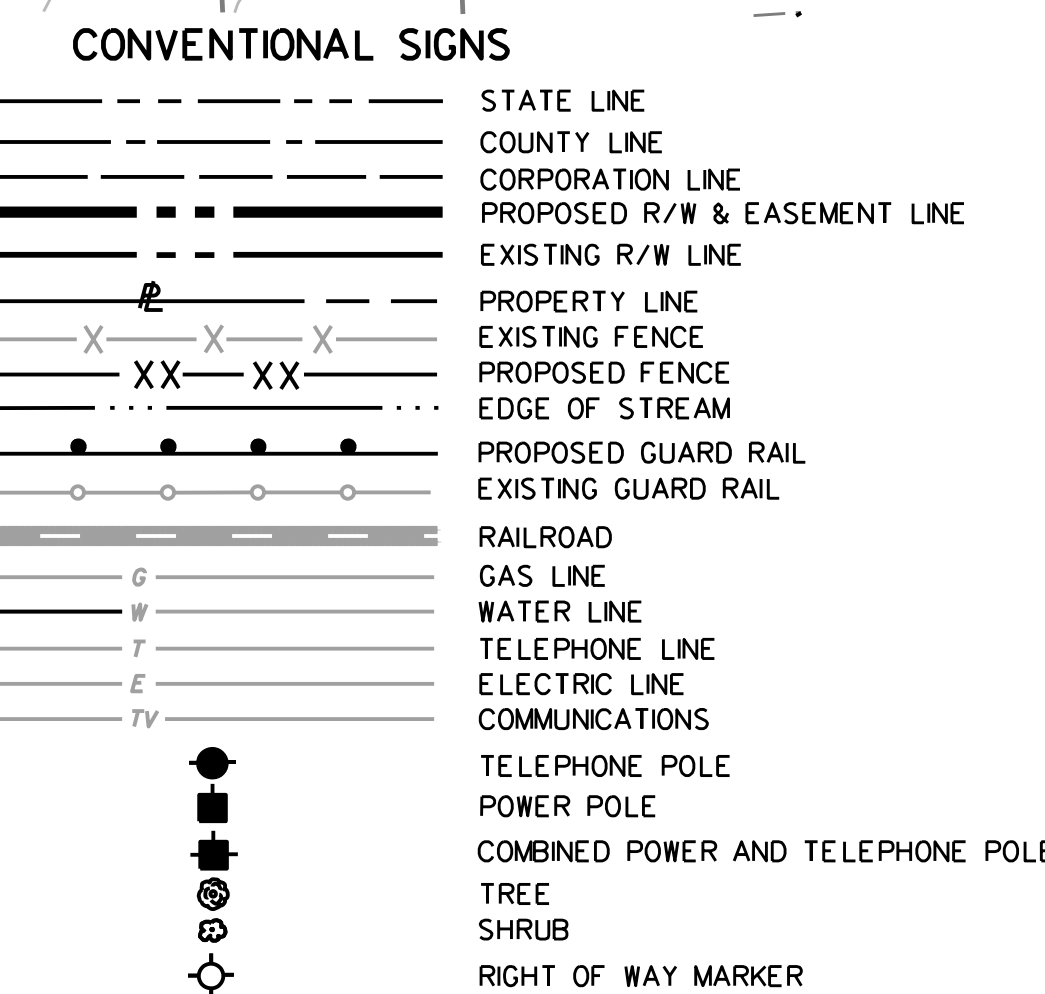
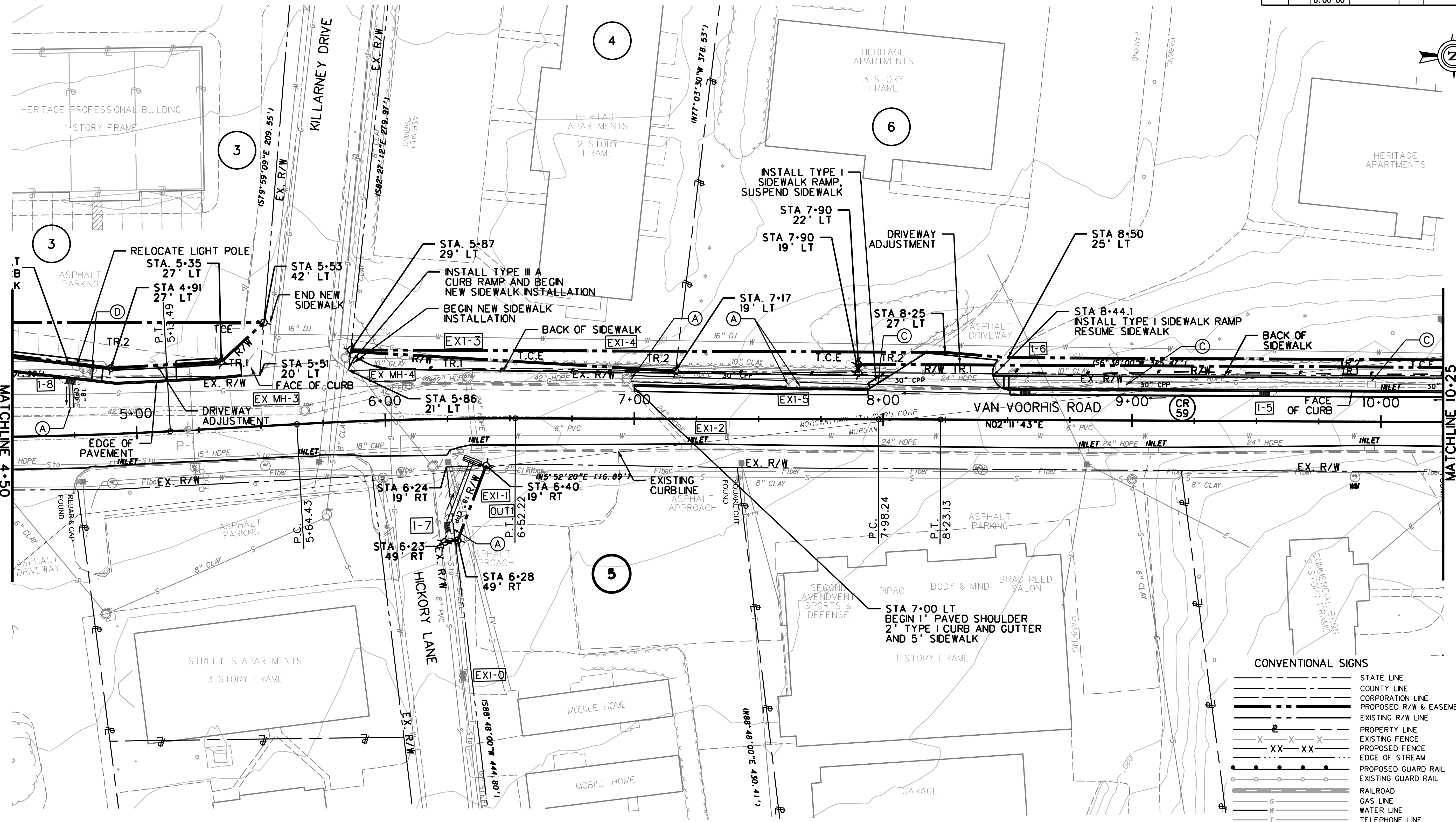
---	STATE LINE
- - - -	COUNTY LINE
- · - · -	CORPORATION LINE
---	PROPOSED R/W & EASEMENT LINE
---	EXISTING R/W LINE
---	PROPERTY LINE
X X X X	EXISTING FENCE
XX XX	PROPOSED FENCE
---	EDGE OF STREAM
---	PROPOSED GUARD RAIL
---	EXISTING GUARD RAIL
---	RAILROAD
G	GAS LINE
W	WATER LINE
T	TELEPHONE LINE
E	ELECTRIC LINE
TV	COMMUNICATIONS
●	TELEPHONE POLE
■	POWER POLE
⊕	COMBINED POWER AND TELEPHONE POLE
○	TREE
○	SHRUB
○	RIGHT OF WAY MARKER

COORDINATES WERE DERIVED FROM WV VRS NETWORK
 VALUES ARE WV NORTH STATE PLANE 4701
 HORIZONTAL DATUM IS NAD 83/2011
 VERTICAL DATUM IS NAVD88 GEOID 12B

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
PLAN

SUBMITTED 6/29/2020

MATCHLINE 4+50



CURVE DATA

ALIGNMENT	CURVE	P. I. STA.	DELTA	Dc	RADIUS	LENGTH	TANGENT	EXTERNAL
VAN VOORHIS	C26	6+08.34	3°21'11"	3°49'11"	1500.00	87.7848	43.9050	0.6424
VAN VOORHIS	C27	8+10.69	0°08'33"	0°34'23"	10000.00	24.8866	12.4433	0.0077

SEE DRAINAGE TABLE FOR LOCATION

LEGEND

- (A) FIELD CONNECTION TO EXISTING DRAINAGE
- (B) ABANDON EXISTING DRAINAGE
- (C) REMOVE EXISTING DRAINAGE
- (D) ADJUST MANHOLE TYPE A
- (2-1) PROPOSED DRAINAGE STRUCTURE

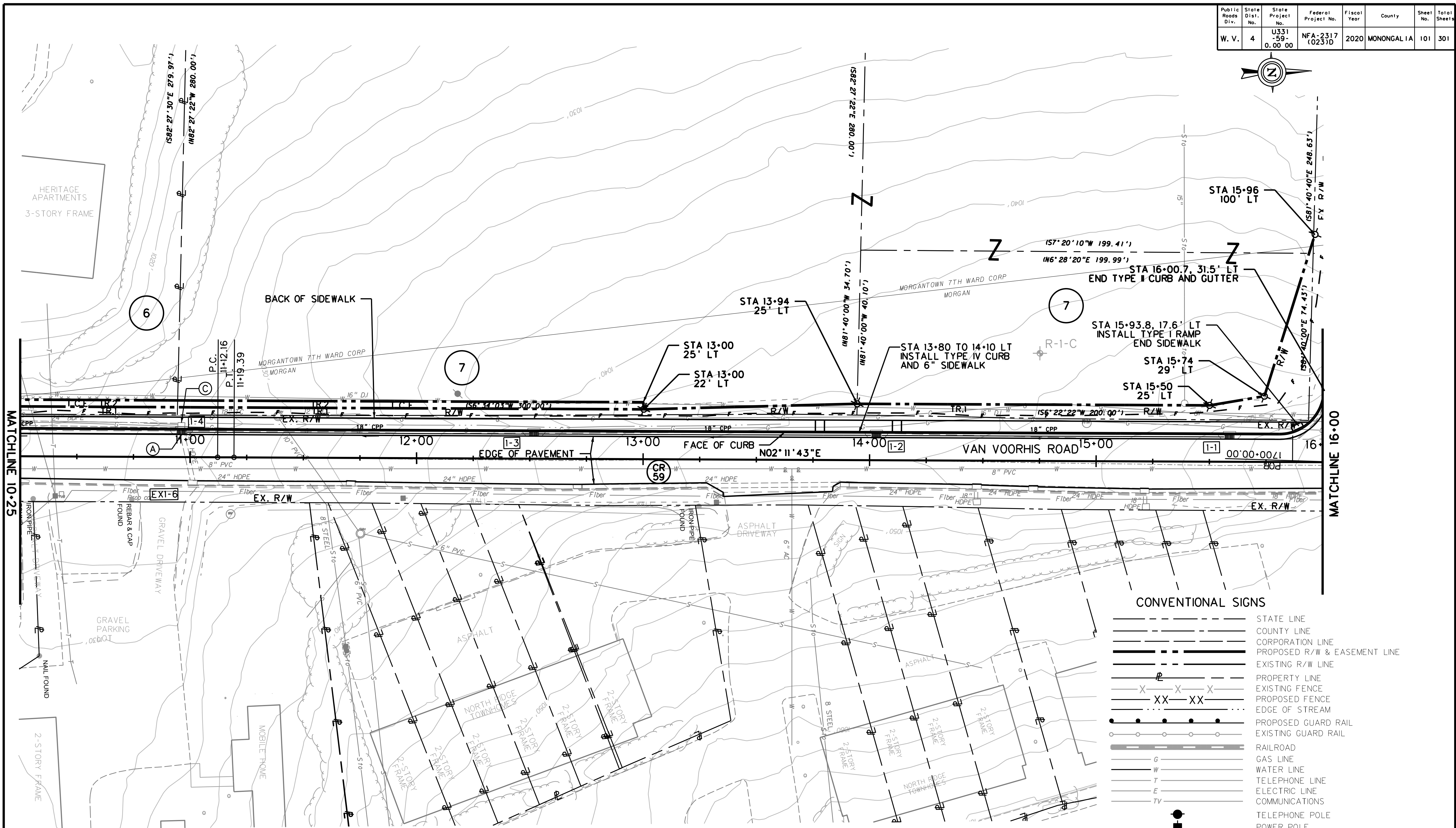
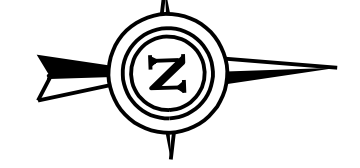
SCALE : 0 20 ft.



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	101	301



CONVENTIONAL SIGNS

	STATE LINE
	COUNTY LINE
	CORPORATION LINE
	PROPOSED R/W & EASEMENT LINE
	EXISTING R/W LINE
	PROPERTY LINE
	EXISTING FENCE
	PROPOSED FENCE
	EDGE OF STREAM
	PROPOSED GUARD RAIL
	EXISTING GUARD RAIL
	RAILROAD
	GAS LINE
	WATER LINE
	TELEPHONE LINE
	ELECTRIC LINE
	COMMUNICATIONS
	TELEPHONE POLE
	POWER POLE
	COMBINED POWER AND TELEPHONE POLE
	TREE
	SHRUB
	RIGHT OF WAY MARKER

CURVE DATA

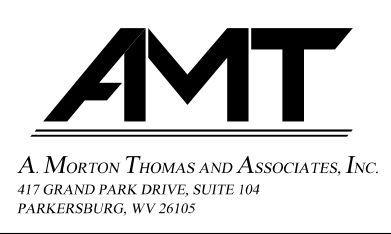
ALIGNMENT	CURVE	P. I. STA.	DELTA	Dc	RADIUS	LENGTH	TANGENT	EXTERNAL
VAN VOORHIS	C28	11+15.78	0°02'29"	0°34'23"	10000.00	7.2276	3.6138	0.0007

SEE DRAINAGE TABLE FOR LOCATION

LEGEND

(A)	FIELD CONNECTION TO EXISTING DRAINAGE
(B)	ABANDON EXISTING DRAINAGE
(C)	REMOVE EXISTING DRAINAGE
(2-1)	PROPOSED DRAINAGE STRUCTURE

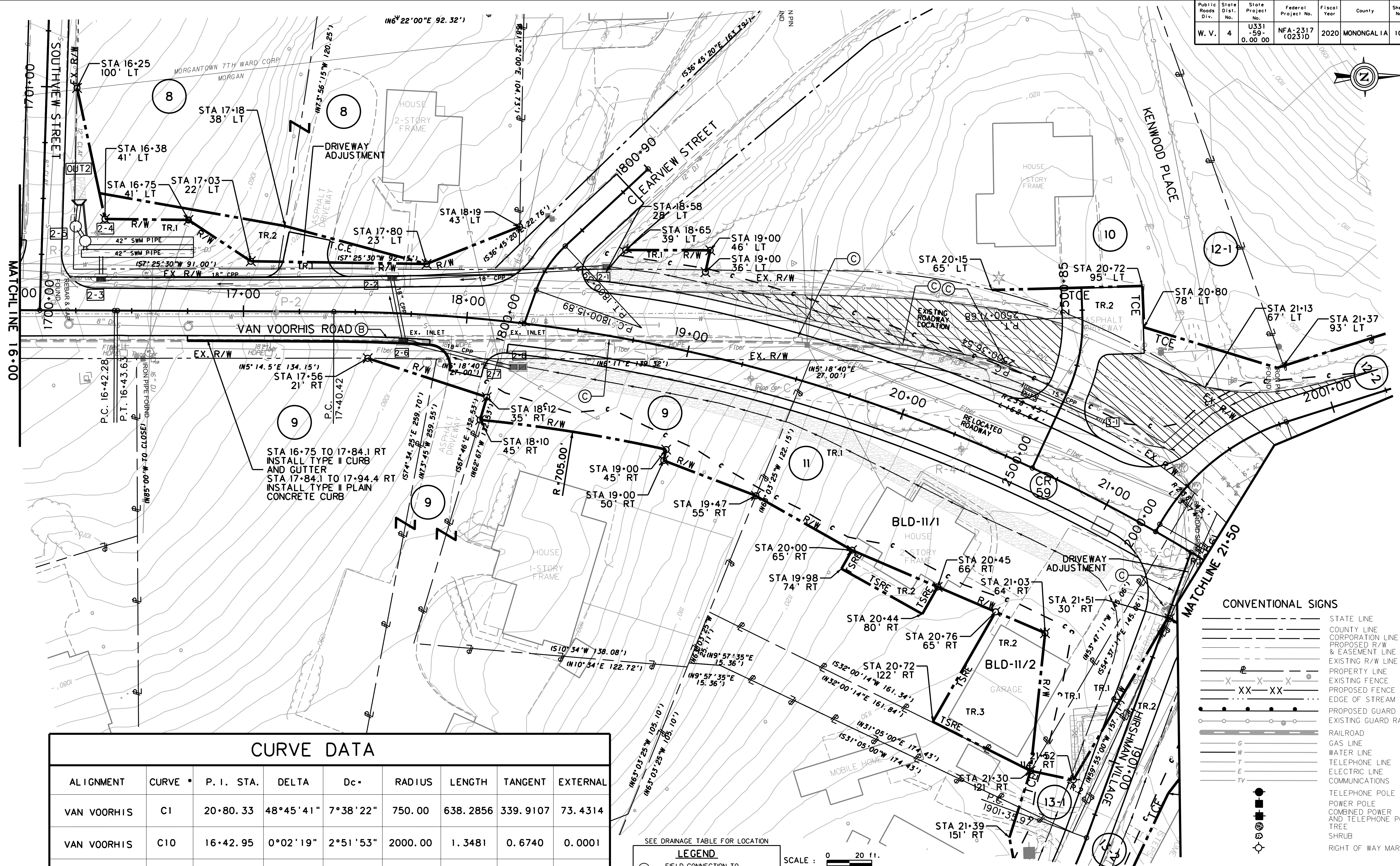
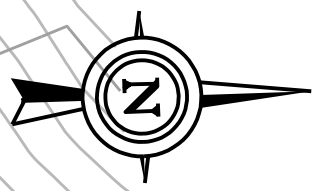
SCALE : 0 20 ft.



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLAN

SUBMITTED 6/29/2020



CURVE DATA

ALIGNMENT	CURVE	P. I. STA.	DELTA	Dc	RADIUS	LENGTH	TANGENT	EXTERNAL
VAN VOORHIS	C1	20+80.33	48°45'41"	7°38'22"	750.00	638.2856	339.9107	73.4314
VAN VOORHIS	C10	16+42.95	0°02'19"	2°51'53"	2000.00	1.3481	0.6740	0.0001
CLEARVIEW ST.	C11	1800+28.03	27°17'33"	114°35'30"	50.00	23.8171	12.1390	1.4524
WEDGEWOOD DR.	C23	2000+42.85	42°42'23"	57°17'45"	100.00	74.5365	39.0953	7.3706

SEE DRAINAGE TABLE FOR LOCATION

LEGEND

(A)	FIELD CONNECTION TO EXISTING DRAINAGE
(B)	ABANDON EXISTING DRAINAGE
(C)	REMOVE EXISTING DRAINAGE
[2-1]	PROPOSED DRAINAGE STRUCTURE

SCALE : 0 20 ft.



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

CONVENTIONAL SIGNS

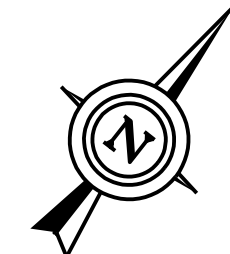
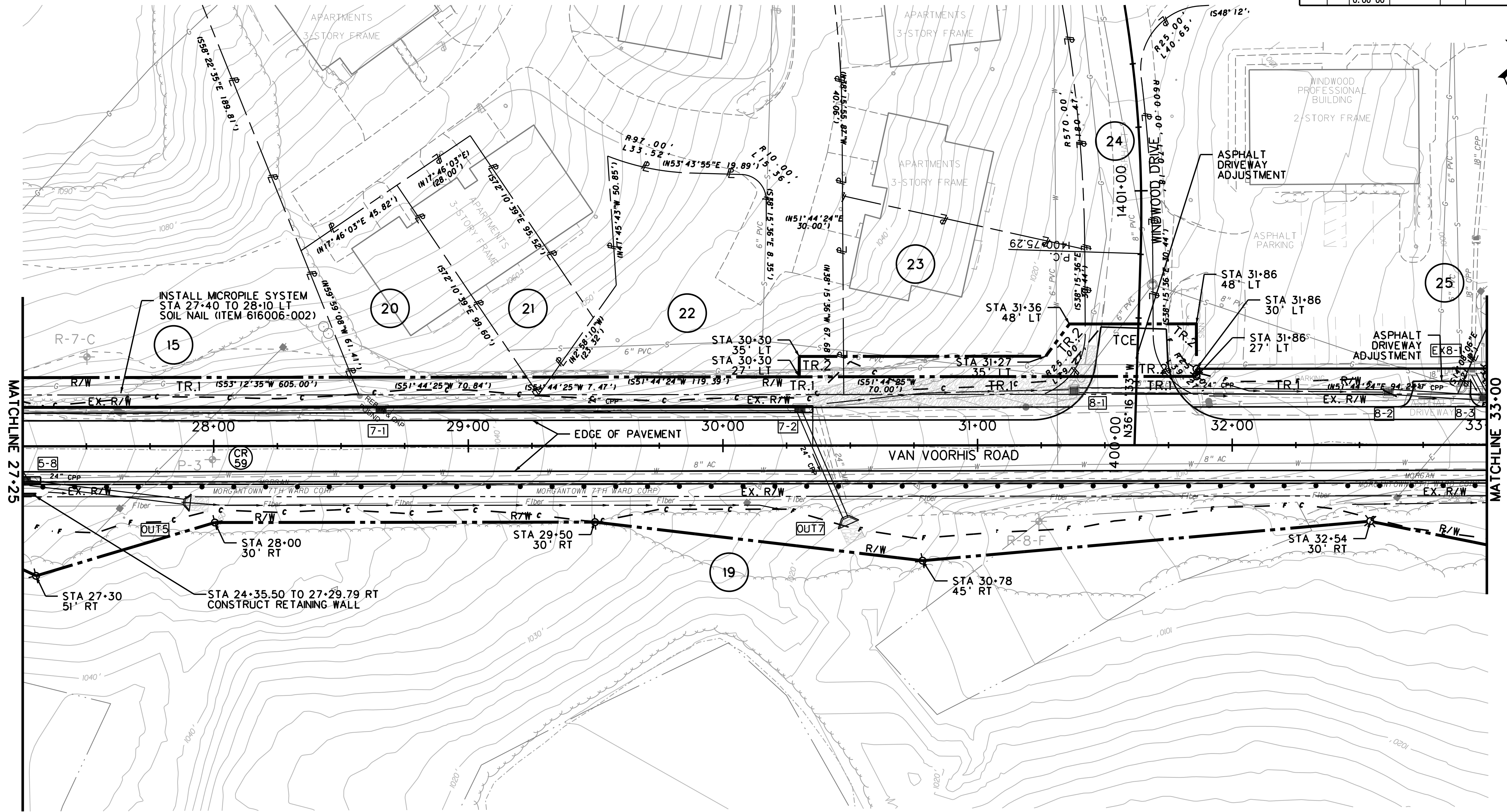
[Symbol]	STATE LINE
[Symbol]	COUNTY LINE
[Symbol]	CORPORATION LINE
[Symbol]	PROPOSED R/W & EASEMENT LINE
[Symbol]	EXISTING R/W LINE
[Symbol]	PROPERTY LINE
[Symbol]	EXISTING FENCE
[Symbol]	PROPOSED FENCE
[Symbol]	EDGE OF STREAM
[Symbol]	PROPOSED GUARD RAIL
[Symbol]	EXISTING GUARD RAIL
[Symbol]	RAILROAD
[Symbol]	GAS LINE
[Symbol]	WATER LINE
[Symbol]	TELEPHONE LINE
[Symbol]	ELECTRIC LINE
[Symbol]	COMMUNICATIONS
[Symbol]	TELEPHONE POLE
[Symbol]	POWER POLE
[Symbol]	COMBINED POWER AND TELEPHONE POLE
[Symbol]	TREE
[Symbol]	SHRUB
[Symbol]	RIGHT OF WAY MARKER

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLAN

SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	104	301



CONVENTIONAL SIGNS

- | | | | | |
|-------|------------------------------|-----|----|-----------------------------------|
| --- | STATE LINE | --- | G | GAS LINE |
| --- | COUNTY LINE | --- | W | WATER LINE |
| --- | CORPORATION LINE | --- | T | TELEPHONE LINE |
| --- | PROPOSED R/W & EASEMENT LINE | --- | E | ELECTRIC LINE |
| --- | EXISTING R/W LINE | --- | TV | COMMUNICATIONS |
| --- | PROPERTY LINE | ● | ● | TELEPHONE POLE |
| X-X-X | EXISTING FENCE | ■ | ■ | POWER POLE |
| XX-XX | PROPOSED FENCE | ⊗ | ⊗ | COMBINED POWER AND TELEPHONE POLE |
| --- | EDGE OF STREAM | ○ | ○ | TREE |
| --- | PROPOSED GUARD RAIL | ○ | ○ | SHRUB |
| --- | EXISTING GUARD RAIL | ○ | ○ | RIGHT OF WAY MARKER |
| --- | RAILROAD | ○ | ○ | |

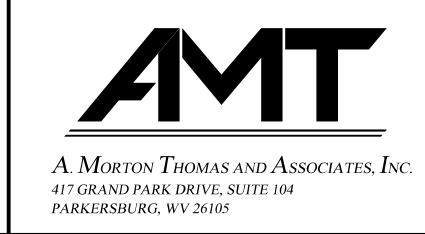
SEE DRAINAGE TABLE FOR LOCATION

LEGEND

- (A) FIELD CONNECTION TO EXISTING DRAINAGE
- (B) ABANDON EXISTING DRAINAGE
- (C) REMOVE EXISTING DRAINAGE
- (2-1) PROPOSED DRAINAGE STRUCTURE

CURVE DATA								
ALIGNMENT	CURVE	P. I. STA.	DELTA	Dc	RADIUS	LENGTH	TANGENT	EXTERNAL
WINDWOOD DRIVE	C13	1401+39.60	14°27'52"	11°18'25"	506.73	127.9267	64.3052	4.0639

SCALE : 0 20 ft.

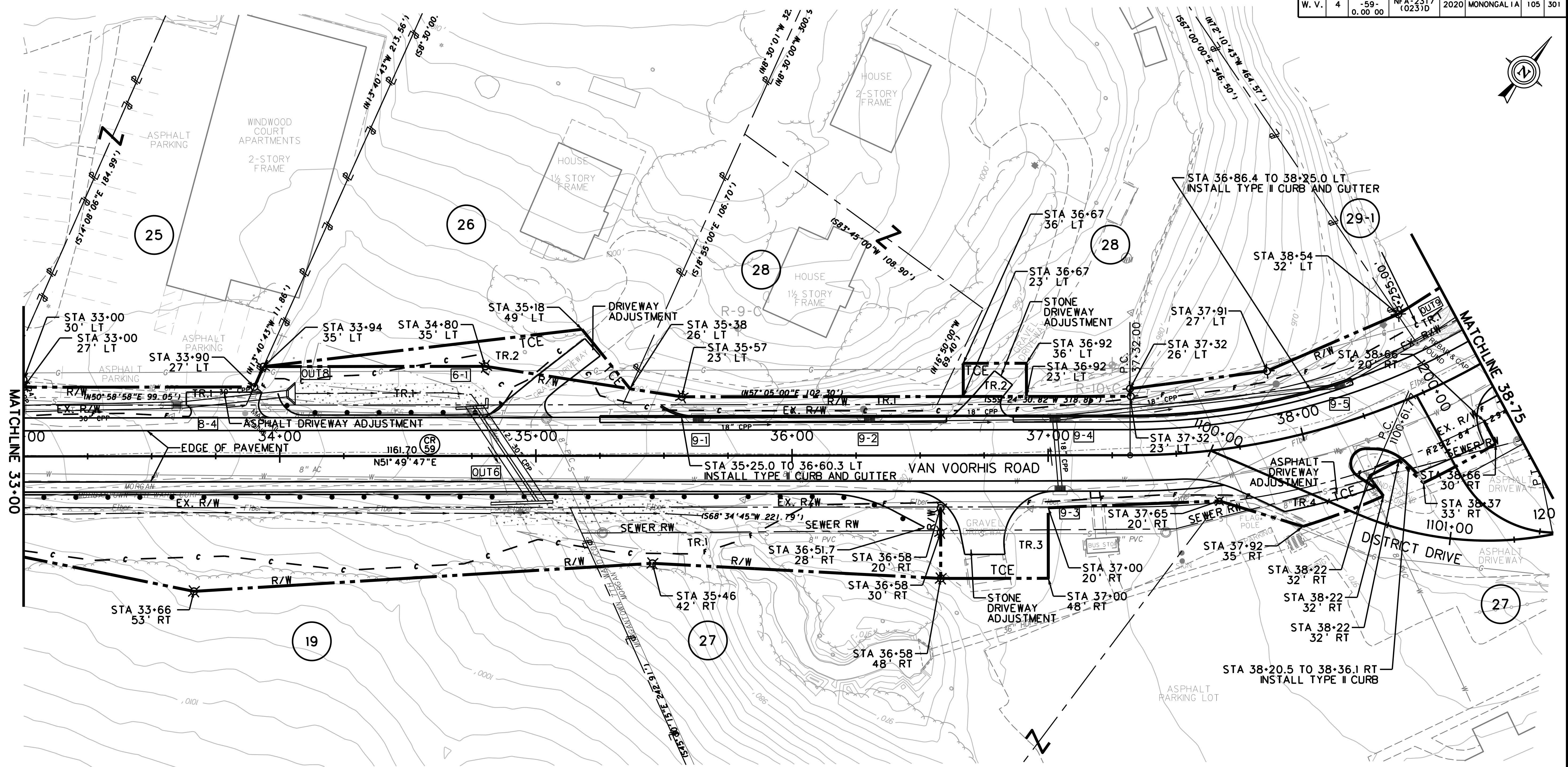


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLAN

SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	105	301



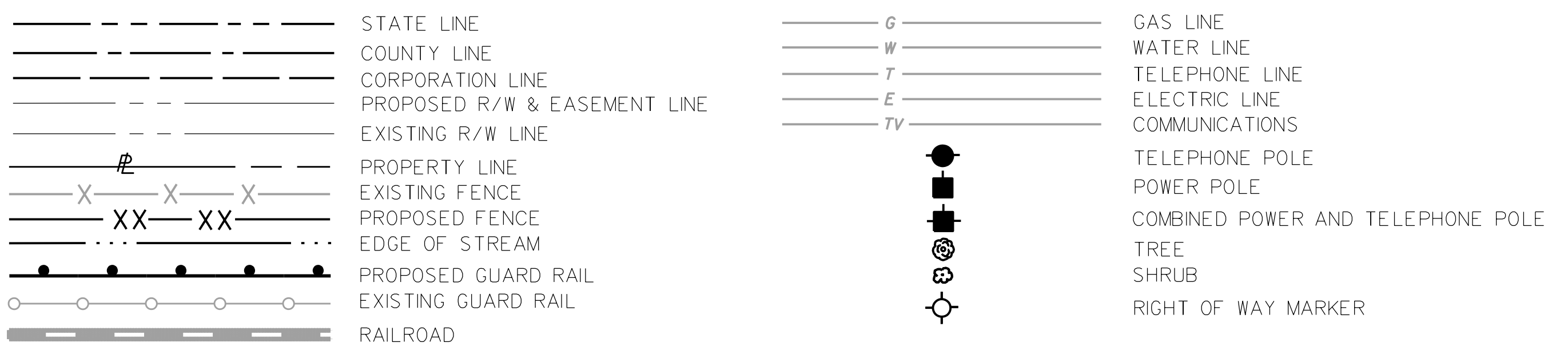
MATCHLINE 33+00

MATCHLINE 38+75

CURVE DATA

ALIGNMENT	CURVE	P. I. STA.	DELTA	Dc	RADIUS	LENGTH	TANGENT	EXTERNAL
VAN VOORHIS	C2	39+82.17	83°21'27"	20°23'24"	281.00	408.8169	250.1754	95.2296
DISTRICT DRIVE	C14	1101+02.24	34°34'41"	44°04'25"	130.00	78.4551	40.4632	6.1516
DISTRICT DRIVE	C15	1101+85.23	13°02'38"	15°19'11"	374.00	85.1448	42.7572	2.4362
DISTRICT DRIVE	C16	1200+63.34	65°34'47"	138°06'46"	41.48	47.4828	26.7248	7.8630

CONVENTIONAL SIGNS

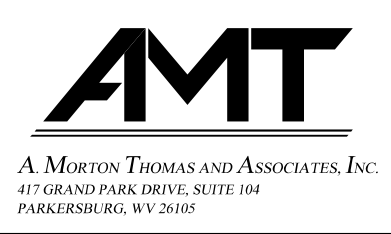


SCALE : 0 20 ft.

SEE DRAINAGE TABLE FOR LOCATION

LEGEND

- (A) FIELD CONNECTION TO EXISTING DRAINAGE
- (B) ABANDON EXISTING DRAINAGE
- (C) REMOVE EXISTING DRAINAGE
- (2-1) PROPOSED DRAINAGE STRUCTURE



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

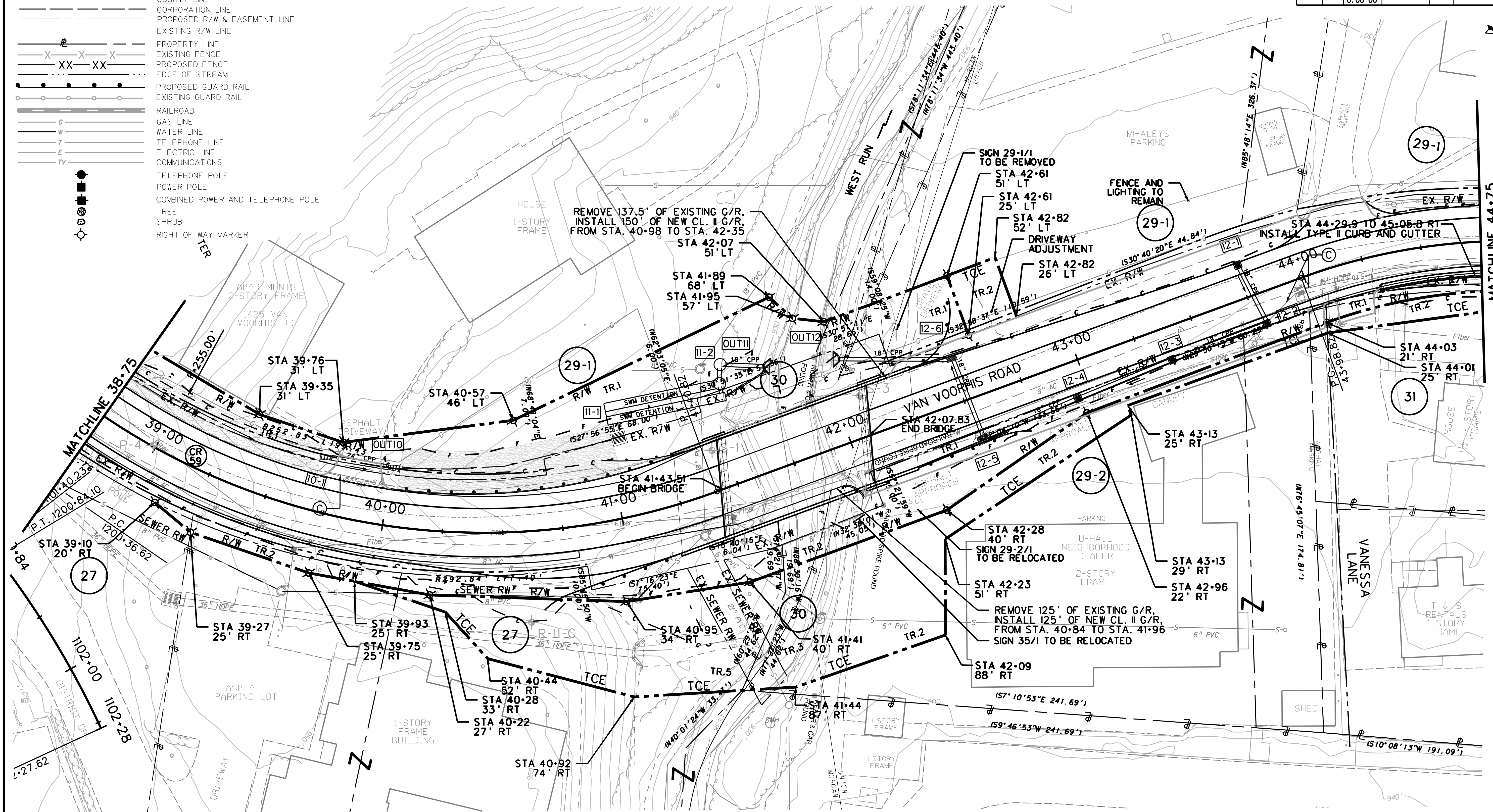
**THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

PLAN

SUBMITTED 6/29/2020

CONVENTIONAL SIGNS

- STATE LINE
- COUNTY LINE
- CORPORATION LINE
- PROPOSED R/W & EASEMENT LINE
- EXISTING R/W LINE
- PROPERTY LINE
- EXISTING FENCE
- PROPOSED FENCE
- EDGE OF STREAM
- PROPOSED GUARD RAIL
- EXISTING GUARD RAIL
- RAILROAD
- GAS LINE
- WATER LINE
- TELEPHONE LINE
- ELECTRIC LINE
- COMMUNICATIONS
- TELEPHONE POLE
- POWER POLE
- COMBINED POWER AND TELEPHONE POLE
- TREE
- SHRUB
- RIGHT OF WAY MARKER



CURVE DATA

ALIGNMENT	CURVE	P. I. STA.	DELTA	Dc	RADIUS	LENGTH	TANGENT	EXTERNAL
VAN VOORHIS	C2	39+82.17	83°21'27"	20°23'24"	281.00	408.8169	250.1754	95.2296
VAN VOORHIS	C3	44+69.39	31°31'40"	22°55'06"	250.00	137.5664	70.5730	9.7702

SEE DRAINAGE TABLE FOR LOCATION

- LEGEND**
- (A) FIELD CONNECTION TO EXISTING DRAINAGE
 - (B) ABANDON EXISTING DRAINAGE
 - (C) REMOVE EXISTING DRAINAGE
 - [Z-1] PROPOSED DRAINAGE STRUCTURE

SCALE : 0 20 ft.



A. MORTON THOMAS AND ASSOCIATES, INC.
417 GRAND PARK DRIVE, SUITE 104
PARKERSBURG, WV 26104

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

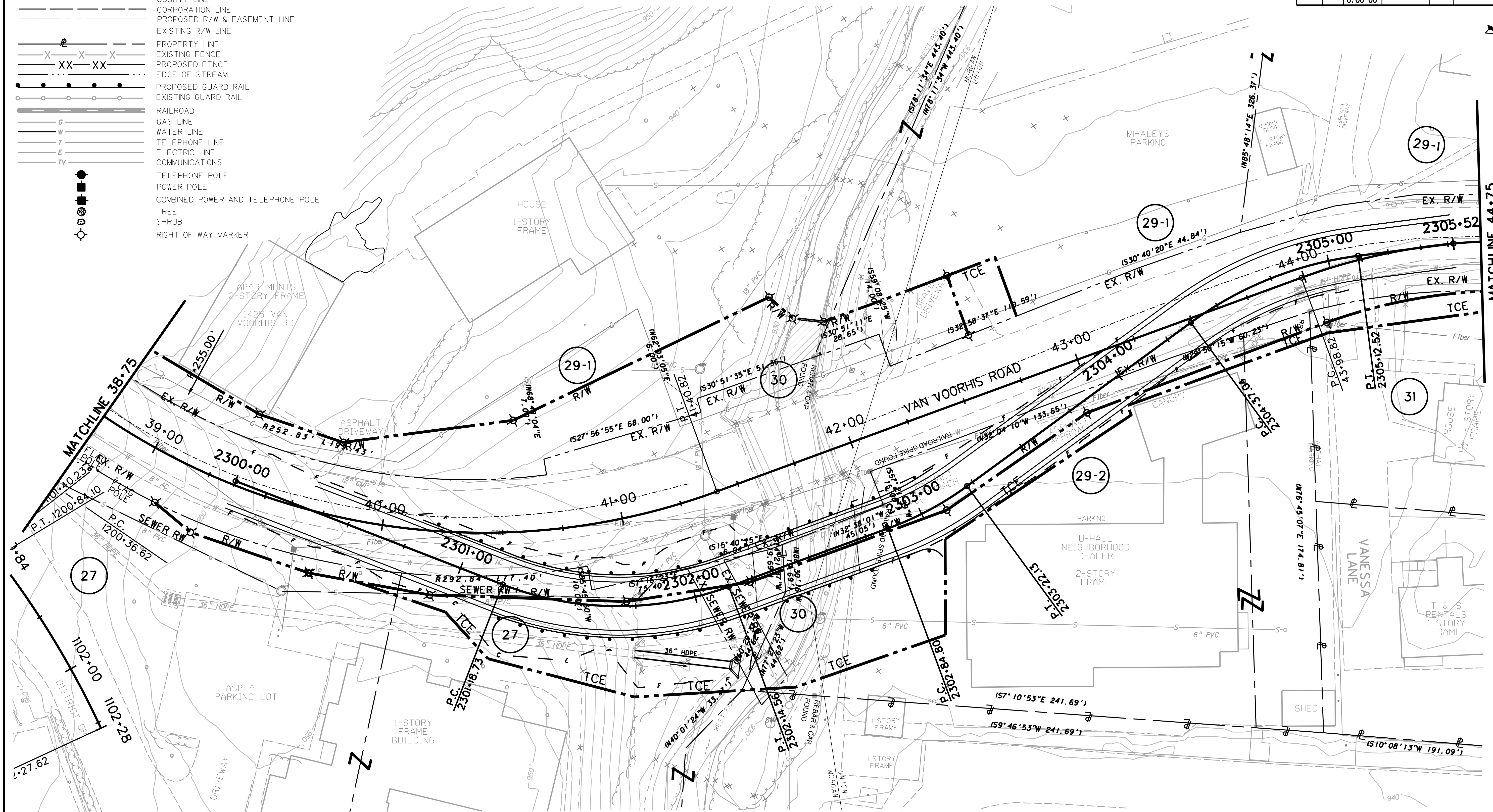
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLAN

SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
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CONVENTIONAL SIGNS

- STATE LINE
- COUNTY LINE
- CORPORATION LINE
- PROPOSED R/W & EASEMENT LINE
- EXISTING R/W LINE
- PROPERTY LINE
- EXISTING FENCE
- PROPOSED FENCE
- EDGE OF STREAM
- PROPOSED GUARD RAIL
- EXISTING GUARD RAIL
- RAILROAD
- GAS LINE
- WATER LINE
- TELEPHONE LINE
- ELECTRIC LINE
- COMMUNICATIONS
- TELEPHONE POLE
- POWER POLE
- COMBINED POWER AND TELEPHONE POLE
- TREE
- SHRUB
- RIGHT OF WAY MARKER



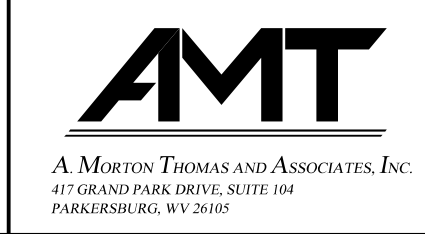
CURVE DATA

ALIGNMENT	CURVE	P. I. STA.	DELTA	Dc	RADIUS	LENGTH	TANGENT	EXTERNAL
TEMPORARY ROAD	C30	2301+68.83	41°16'45"	43°04'46"	133.00	95.8207	50.0962	9.1219
TEMPORARY ROAD	C31	2303+03.58	16°04'51"	43°04'46"	133.00	37.3281	18.7875	1.3204
TEMPORARY ROAD	C32	2304+75.60	28°49'40"	38°11'50"	150.00	75.4709	38.5522	4.8750

SEE DRAINAGE TABLE FOR LOCATION

- LEGEND**
- (A) FIELD CONNECTION TO EXISTING DRAINAGE
 - (B) ABANDON EXISTING DRAINAGE
 - (C) REMOVE EXISTING DRAINAGE
 - (Z-1) PROPOSED DRAINAGE STRUCTURE

SCALE : 0 20 ft.



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

**THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLAN**

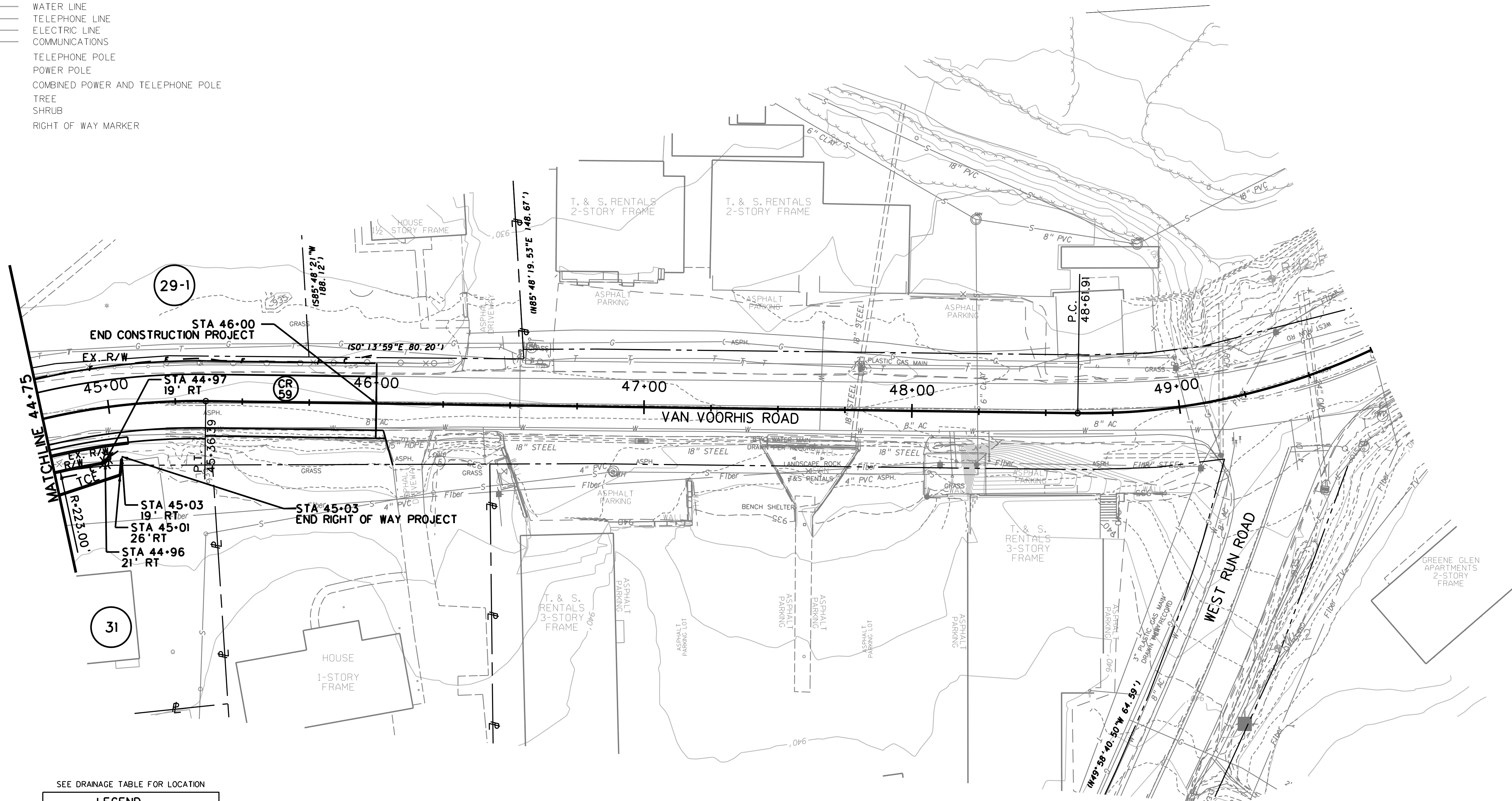
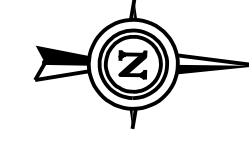
SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0237D)	2020	MONONGALIA	108	301

CONVENTIONAL SIGNS

- STATE LINE
- COUNTY LINE
- CORPORATION LINE
- PROPOSED R/W & EASEMENT LINE
- EXISTING R/W LINE
- PROPERTY LINE
- EXISTING FENCE
- PROPOSED FENCE
- EDGE OF STREAM
- PROPOSED GUARD RAIL
- EXISTING GUARD RAIL
- RAILROAD
- G ----- GAS LINE
- W ----- WATER LINE
- T ----- TELEPHONE LINE
- E ----- ELECTRIC LINE
- TV ----- COMMUNICATIONS
- TELEPHONE POLE
- POWER POLE
- COMBINED POWER AND TELEPHONE POLE
- TREE
- SHRUB
- RIGHT OF WAY MARKER

CURVE DATA								
ALIGNMENT	CURVE	P. I. STA.	DELTA	Dc	RADIUS	LENGTH	TANGENT	EXTERNAL
VAN VOORHIS	C3	44+69.39	31°31'40"	22°55'06"	250.00	137.5664	70.5730	9.7702

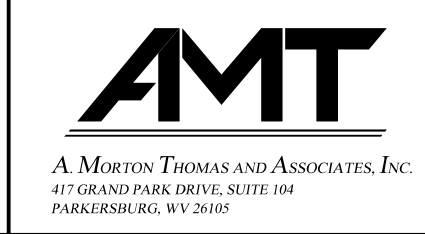


SEE DRAINAGE TABLE FOR LOCATION

LEGEND

- (A) FIELD CONNECTION TO EXISTING DRAINAGE
- (B) ABANDON EXISTING DRAINAGE
- (C) REMOVE EXISTING DRAINAGE
- (Z-1) PROPOSED DRAINAGE STRUCTURE

SCALE : 0 20 ft.

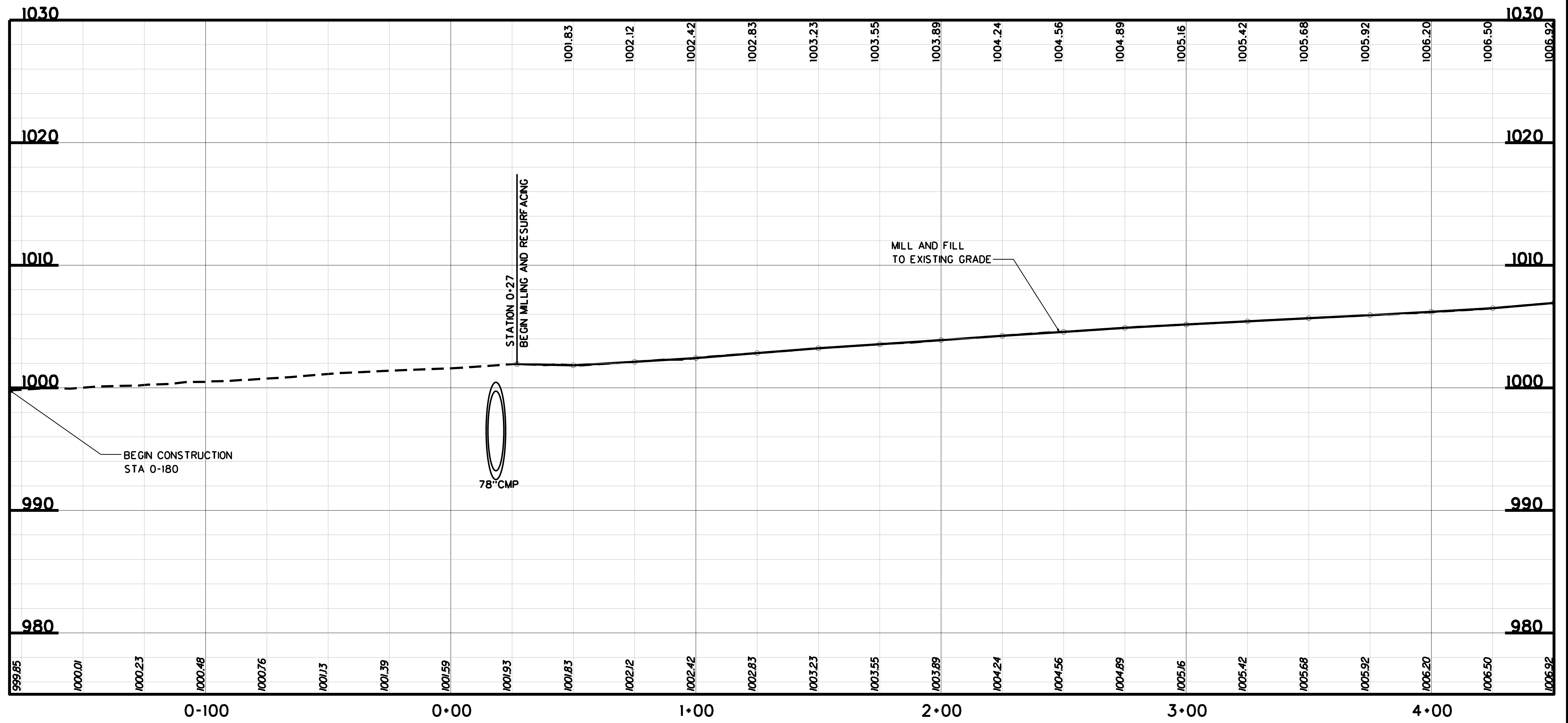


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

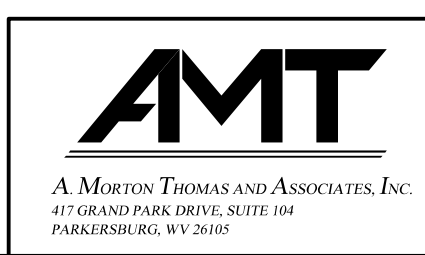
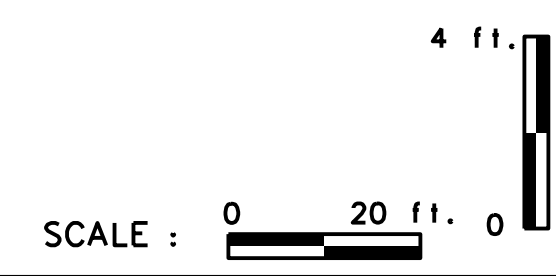
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLAN

SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (02310)	2020	MONONGALIA	109	301

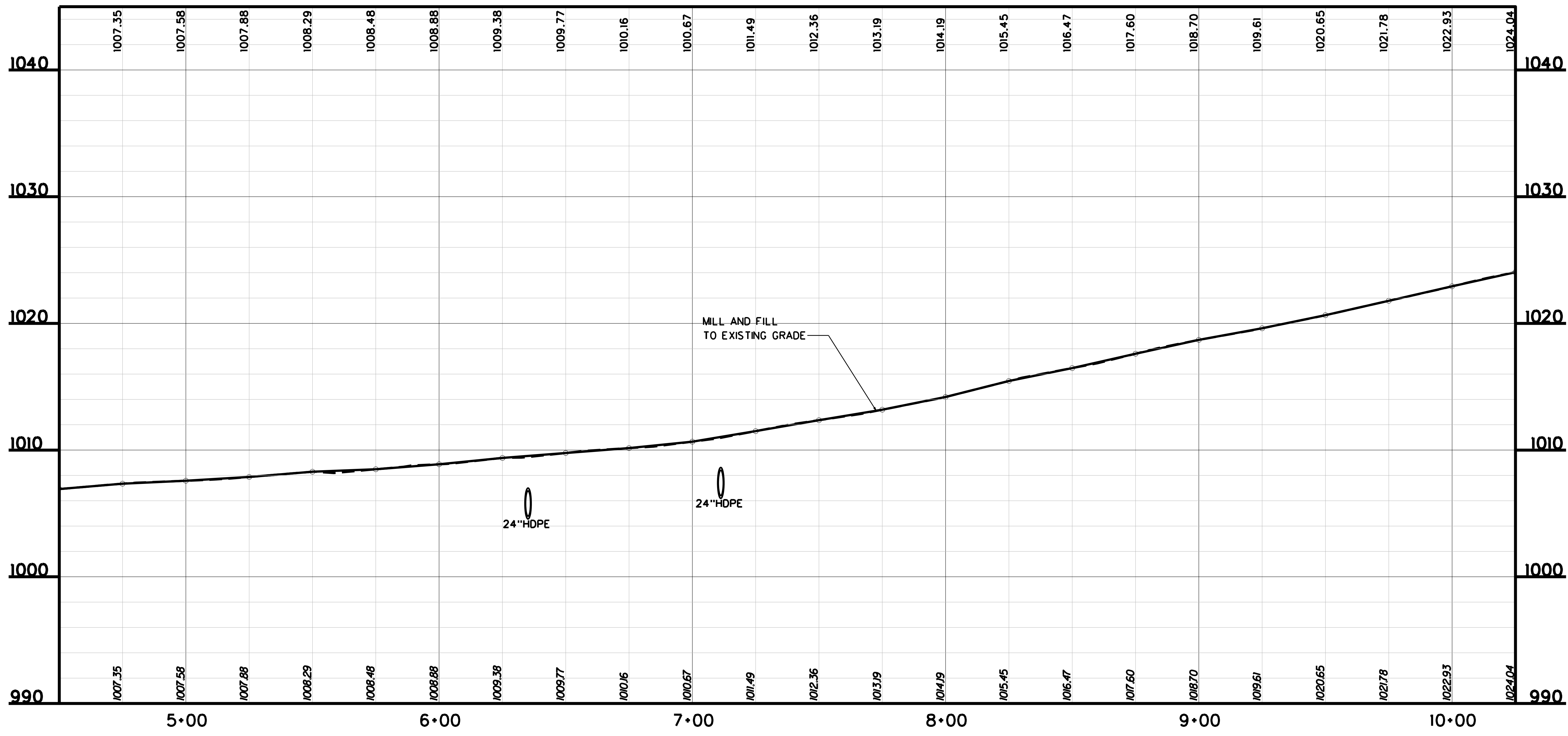


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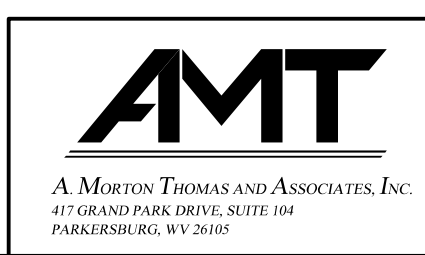
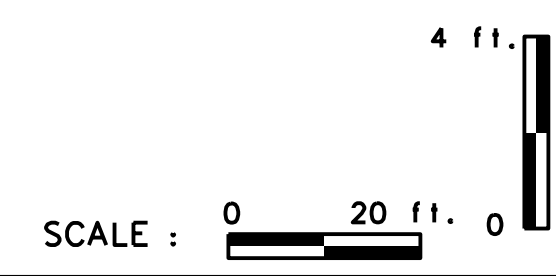


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
VAN VOORHIS ROAD PROFILE
STA. 0-180 TO 4+50



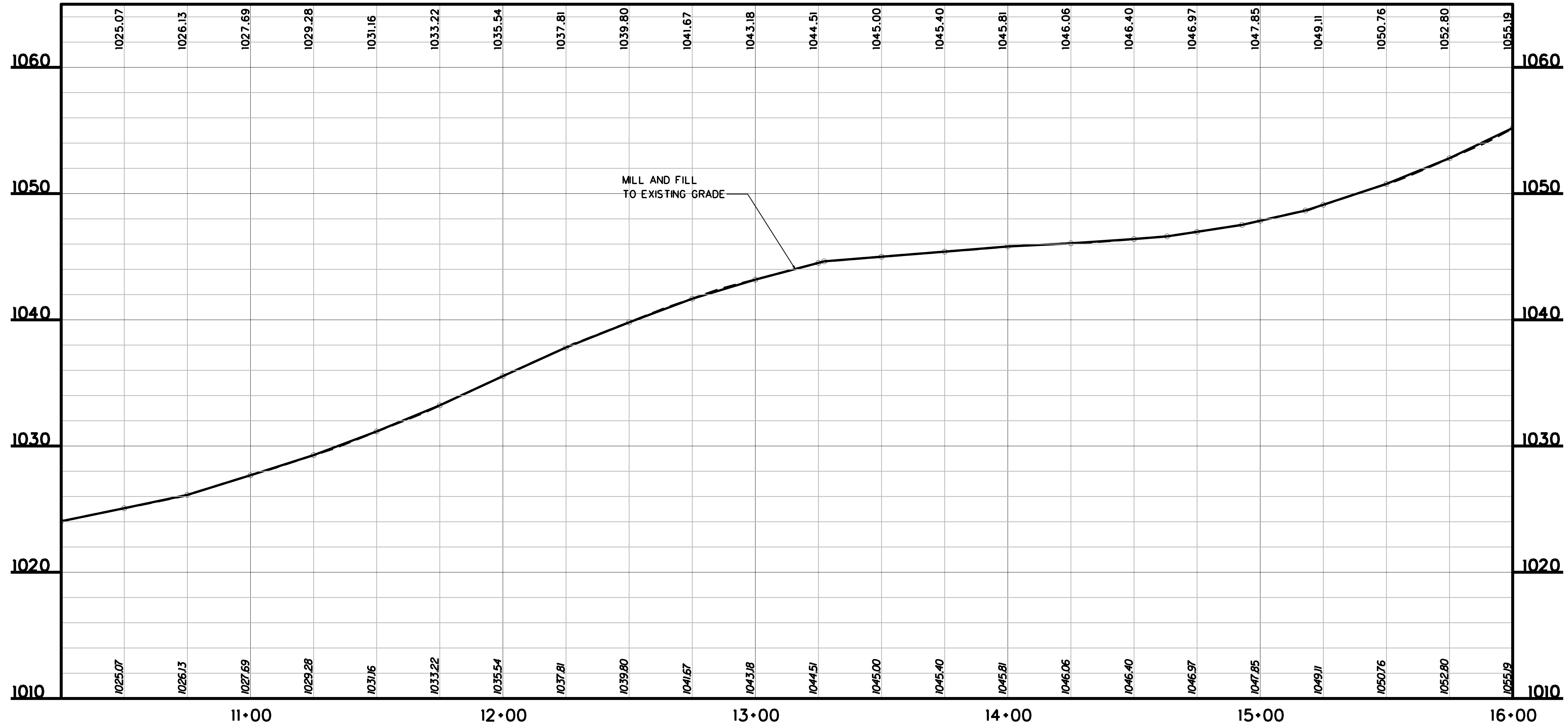
SUBMITTED 6/29/2020



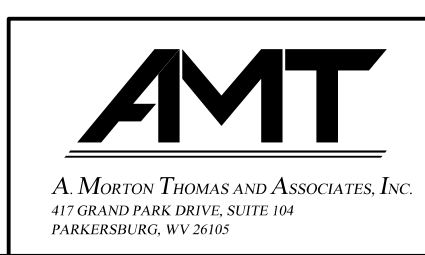
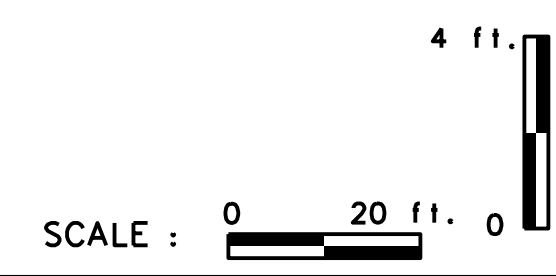
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
VAN VOORHIS ROAD PROFILE
 STA. 4.50 TO 10.25

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	111	301



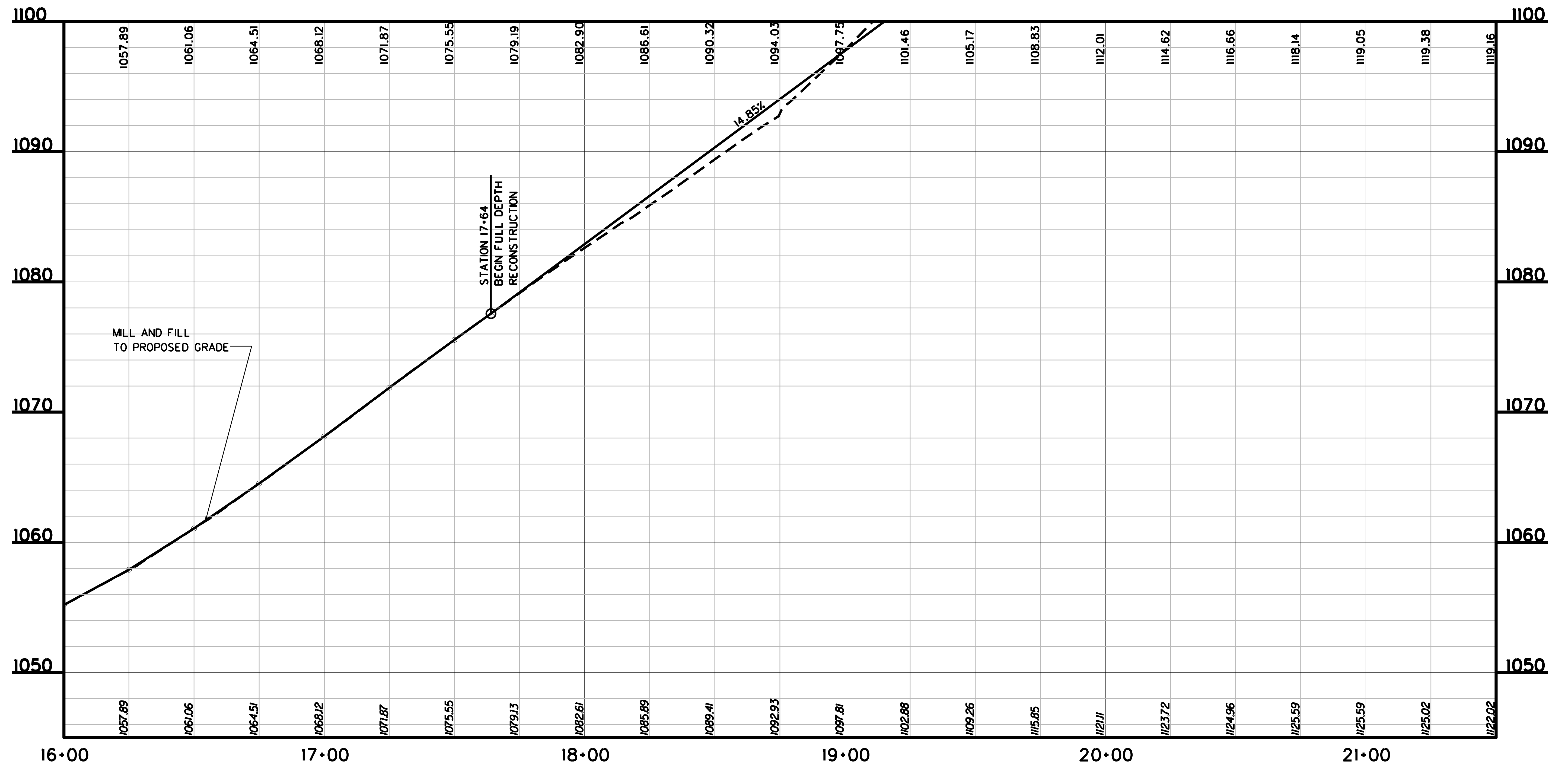
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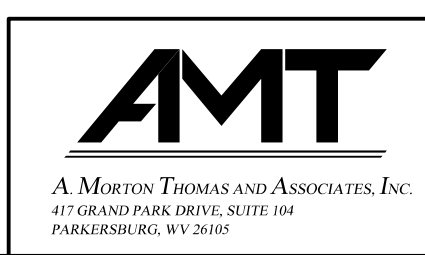
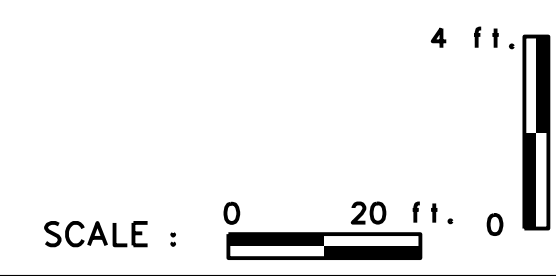
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
VAN VOORHIS ROAD PROFILE
STA. 10+25 TO 16+00

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0237D)	2020	MONONGALIA	112	301



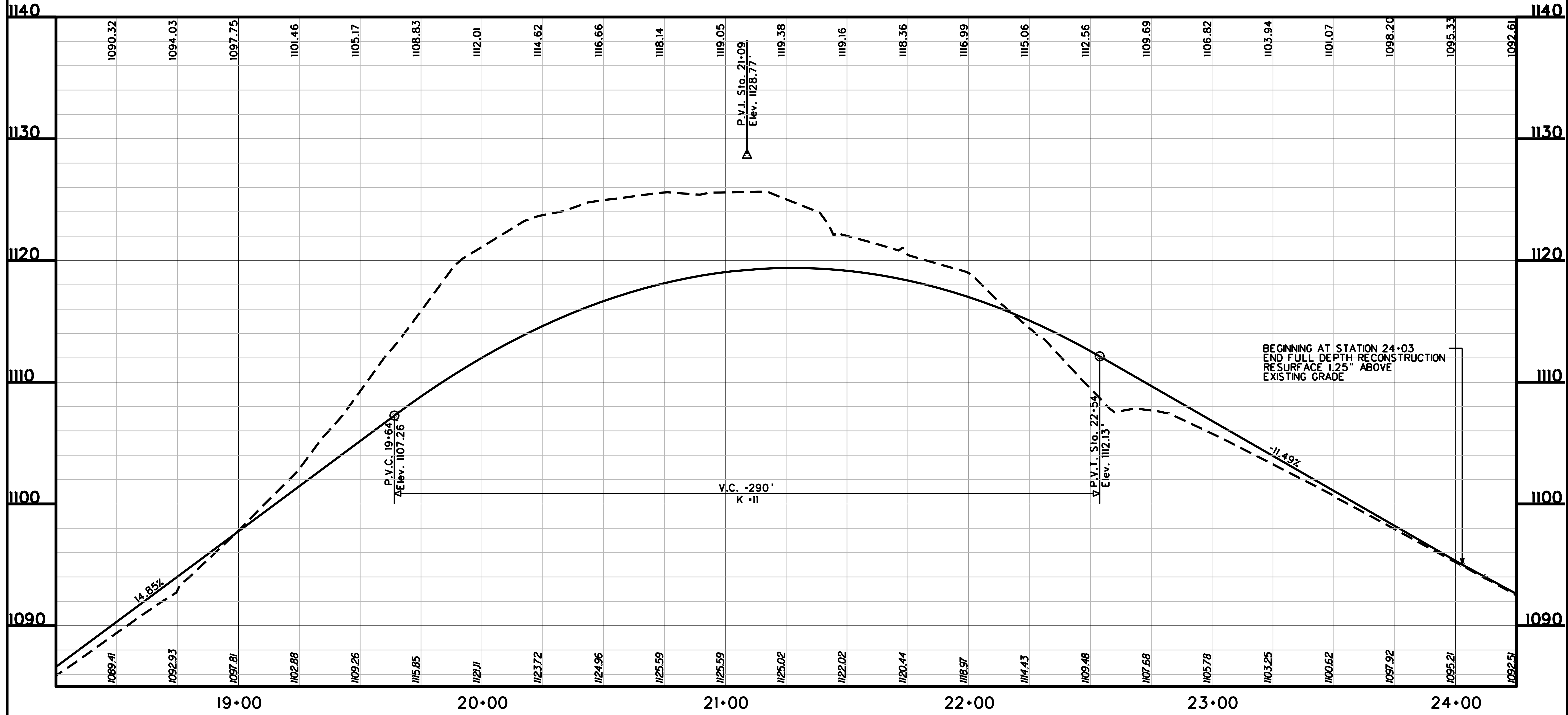
SUBMITTED 6/29/2020



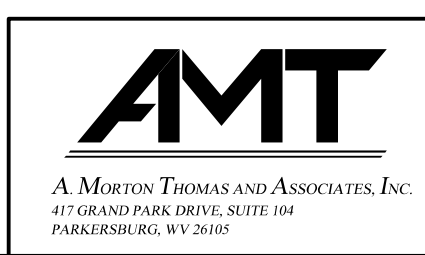
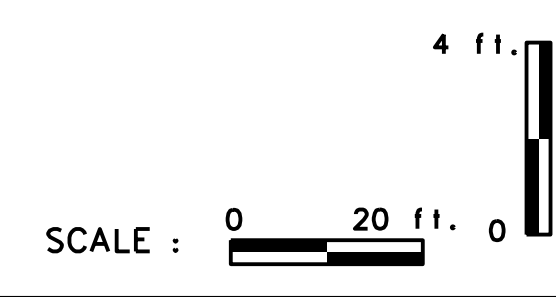
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
VAN VOORHIS ROAD PROFILE
STA. 16+00 TO 21+50

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0237D)	2020	MONONGALIA	113	301



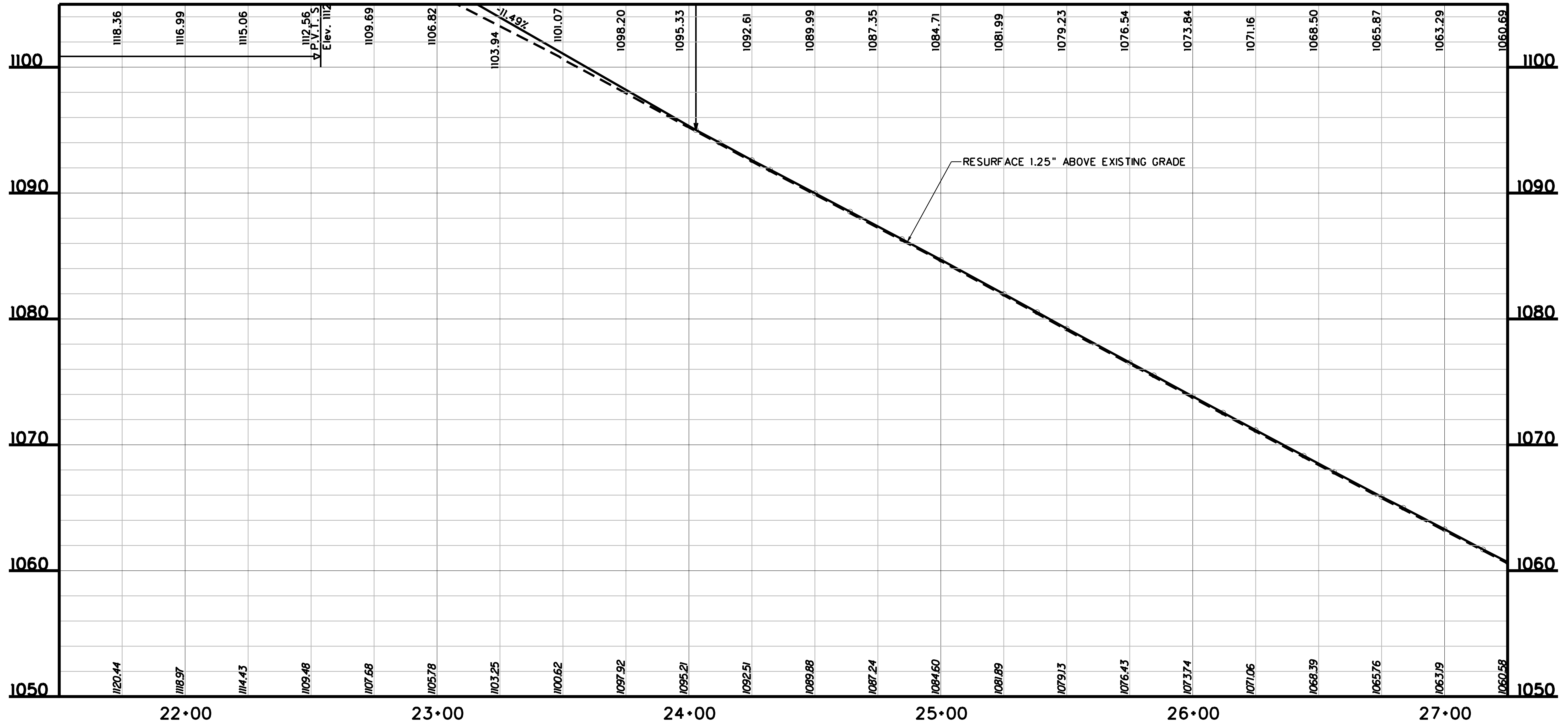
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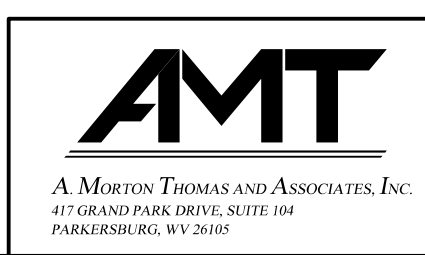
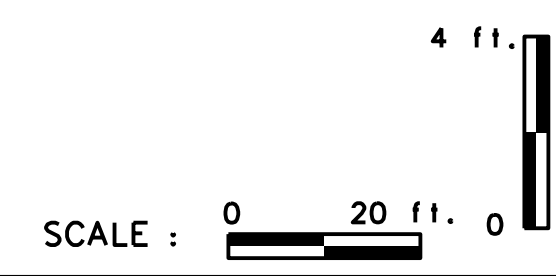
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
VAN VOORHIS ROAD PROFILE
STA. 18+25 TO 24+25

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (023)D	2020	MONONGALIA	114	301



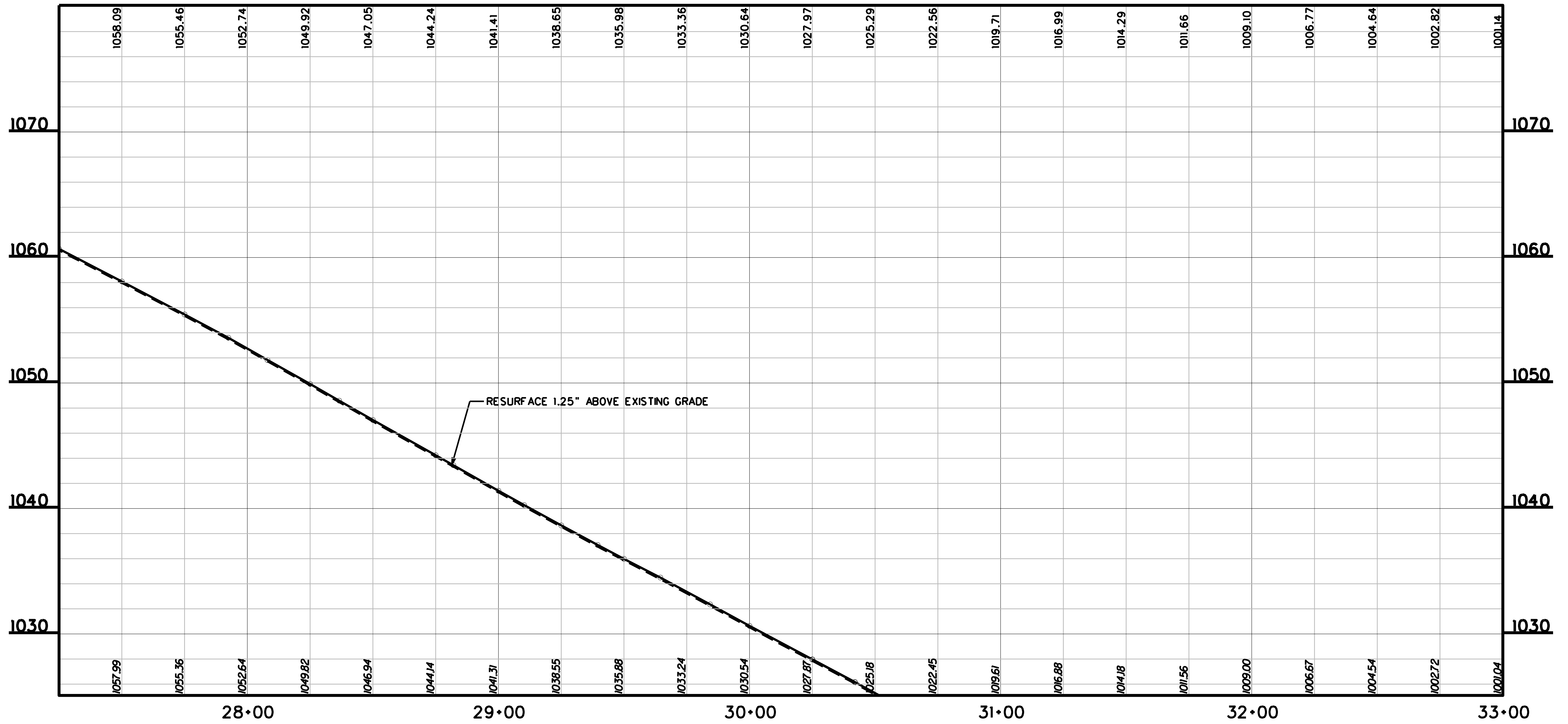
SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

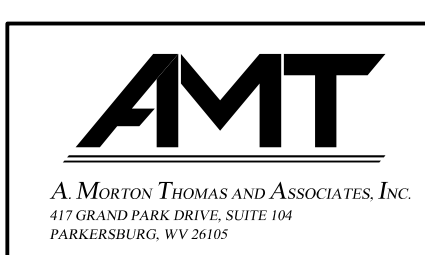
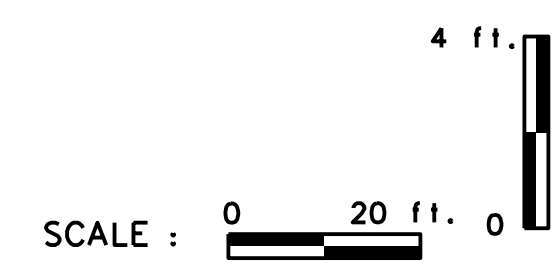
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
VAN VOORHIS ROAD PROFILE
 STA. 21+50 TO 27+25

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (023)D	2020	MONONGALIA	115	301



RESURFACE 1.25" ABOVE EXISTING GRADE

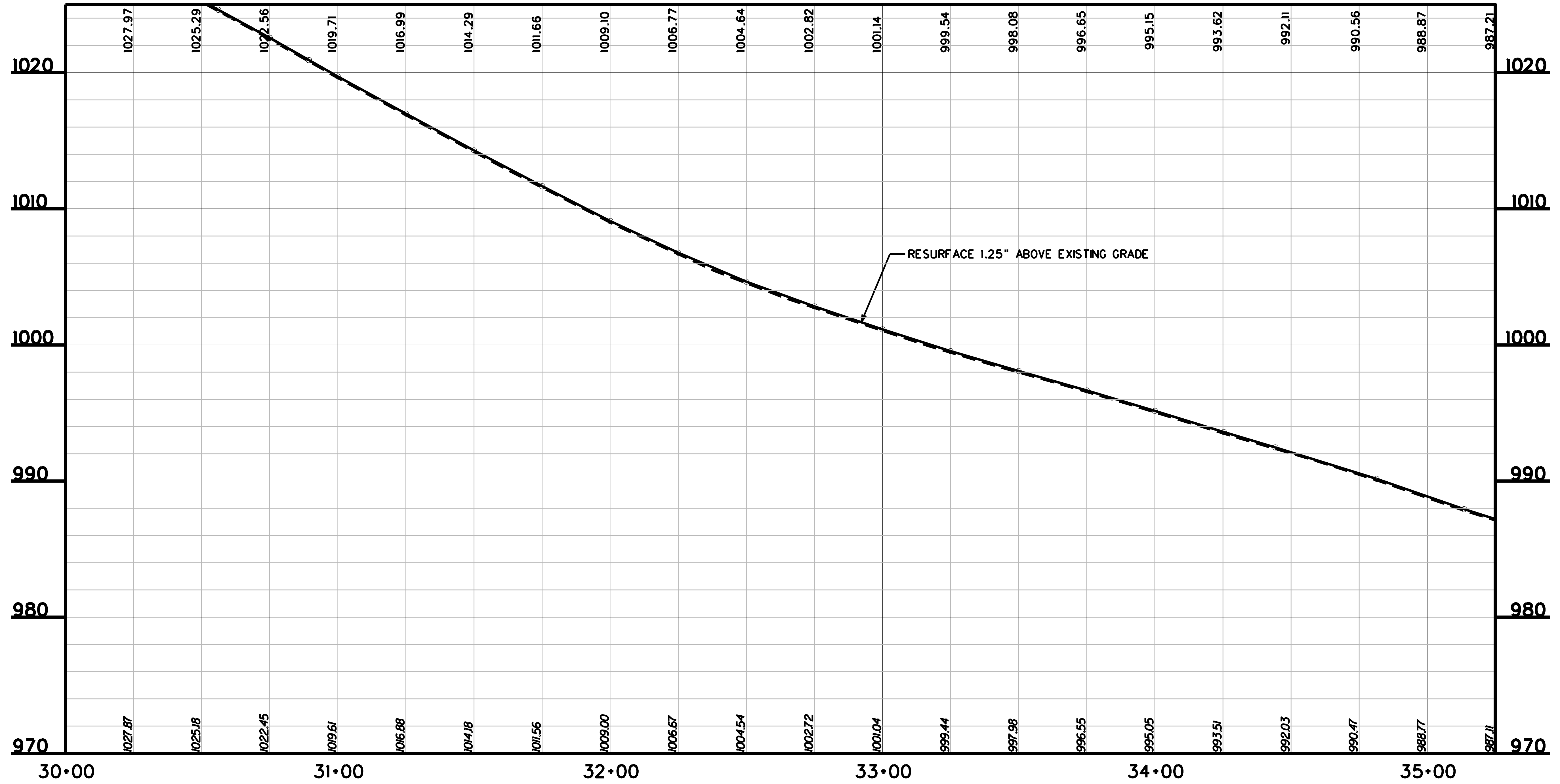
SUBMITTED 6/29/2020



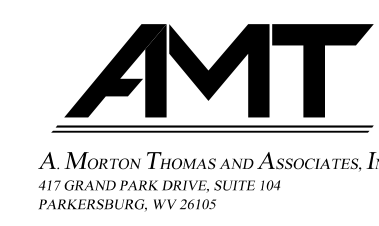
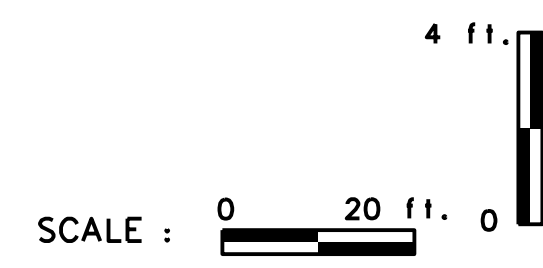
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
VAN VOORHIS ROAD PROFILE
STA. 27+25 TO 33+00

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (02310)	2020	MONONGALIA	116	301



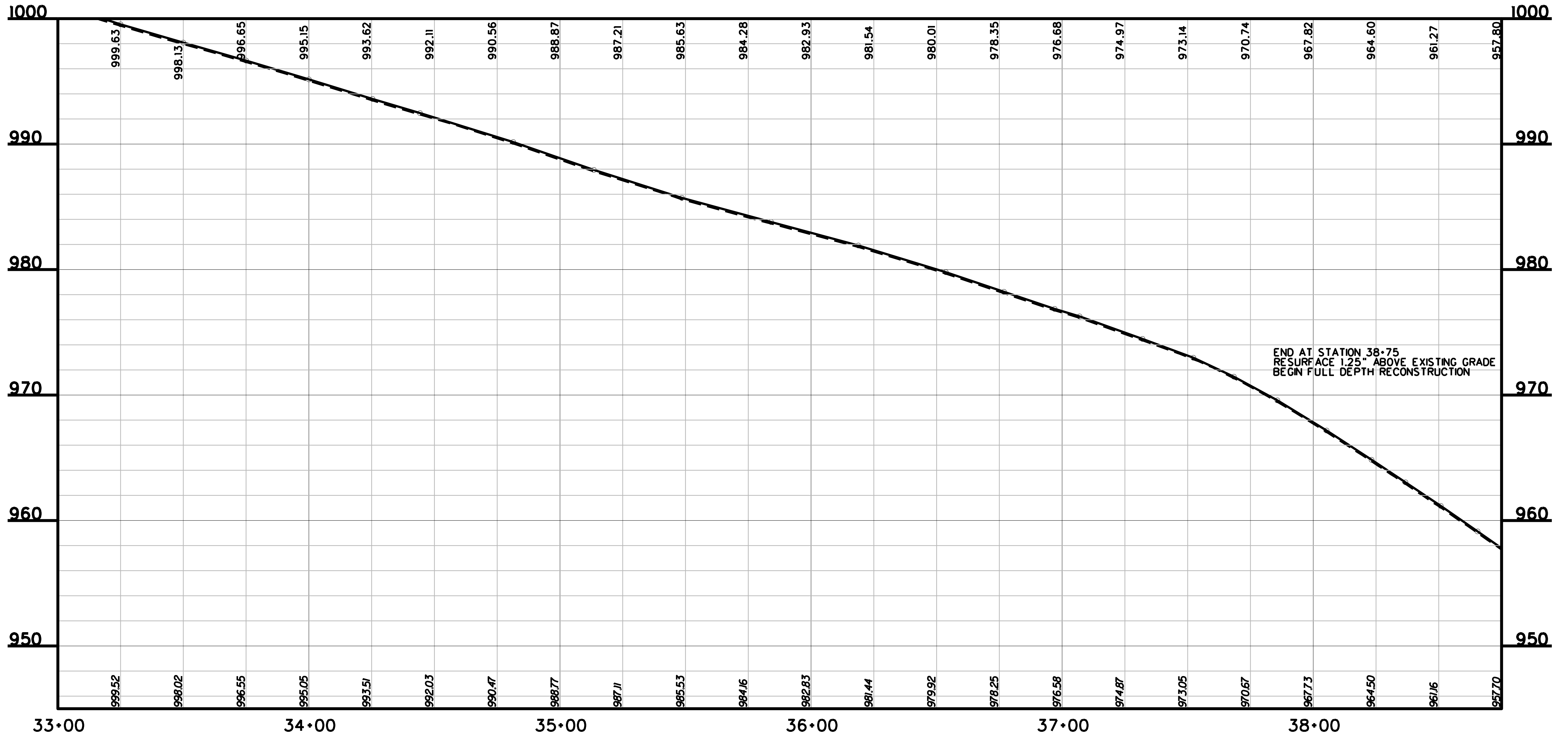
SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

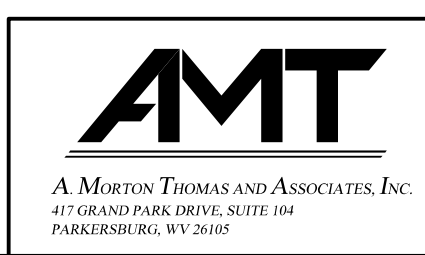
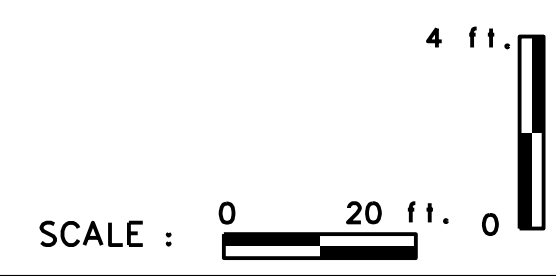
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
VAN VOORHIS ROAD PROFILE
STA. 30+00 TO 35+25

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (02310)	2020	MONONGALIA	117	301



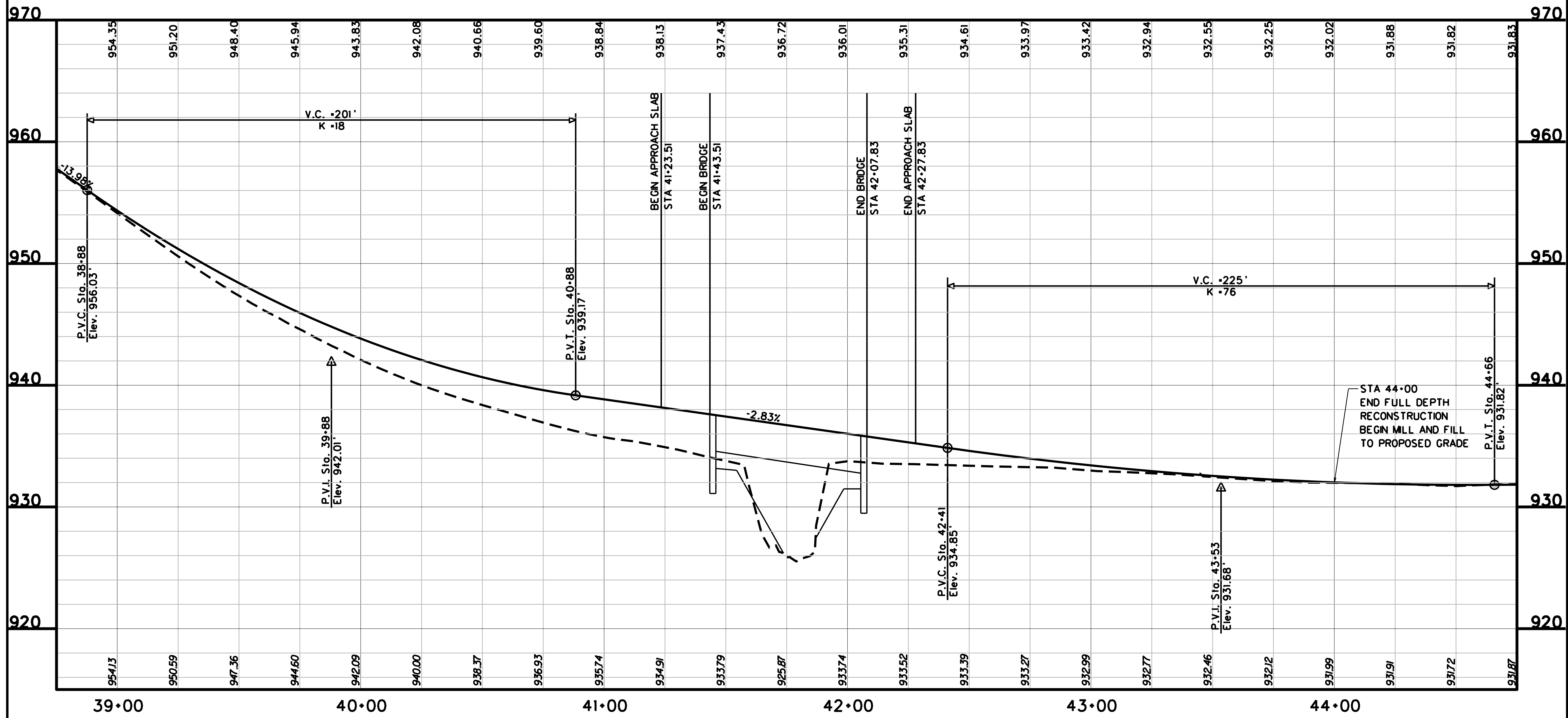
END AT STATION 38+75
 RESURFACE 1.25" ABOVE EXISTING GRADE
 BEGIN FULL DEPTH RECONSTRUCTION

SUBMITTED 6/29/2020

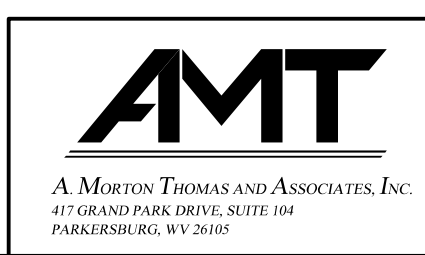
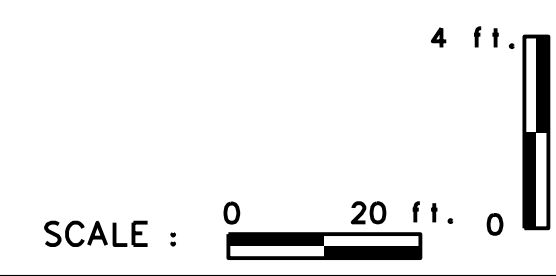


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
VAN VOORHIS ROAD PROFILE
 STA. 33+00 TO 38+75



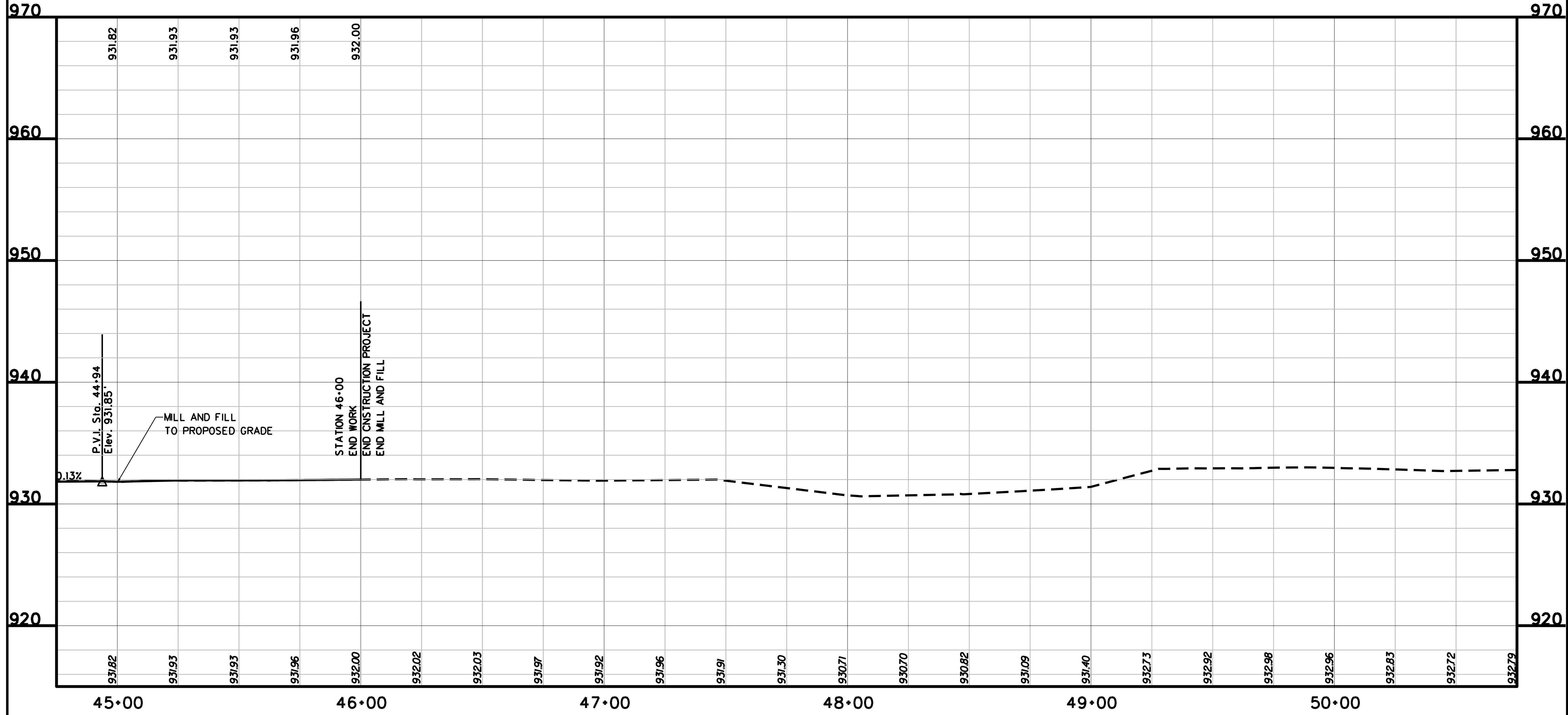
SUBMITTED 6/29/2020



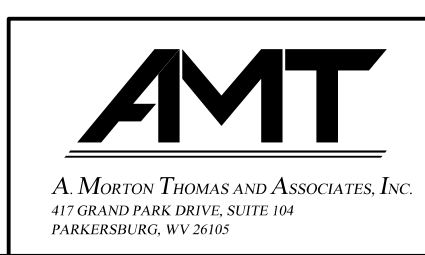
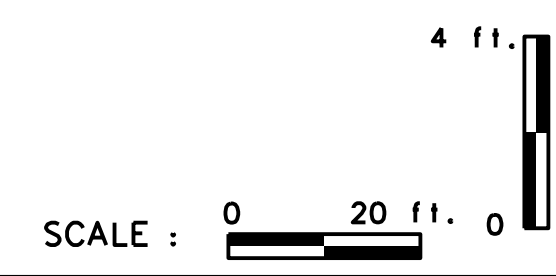
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
VAN VOORHIS ROAD PROFILE
STA. 38+75 TO 44+75

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0237D)	2020	MONONGALIA	119	301



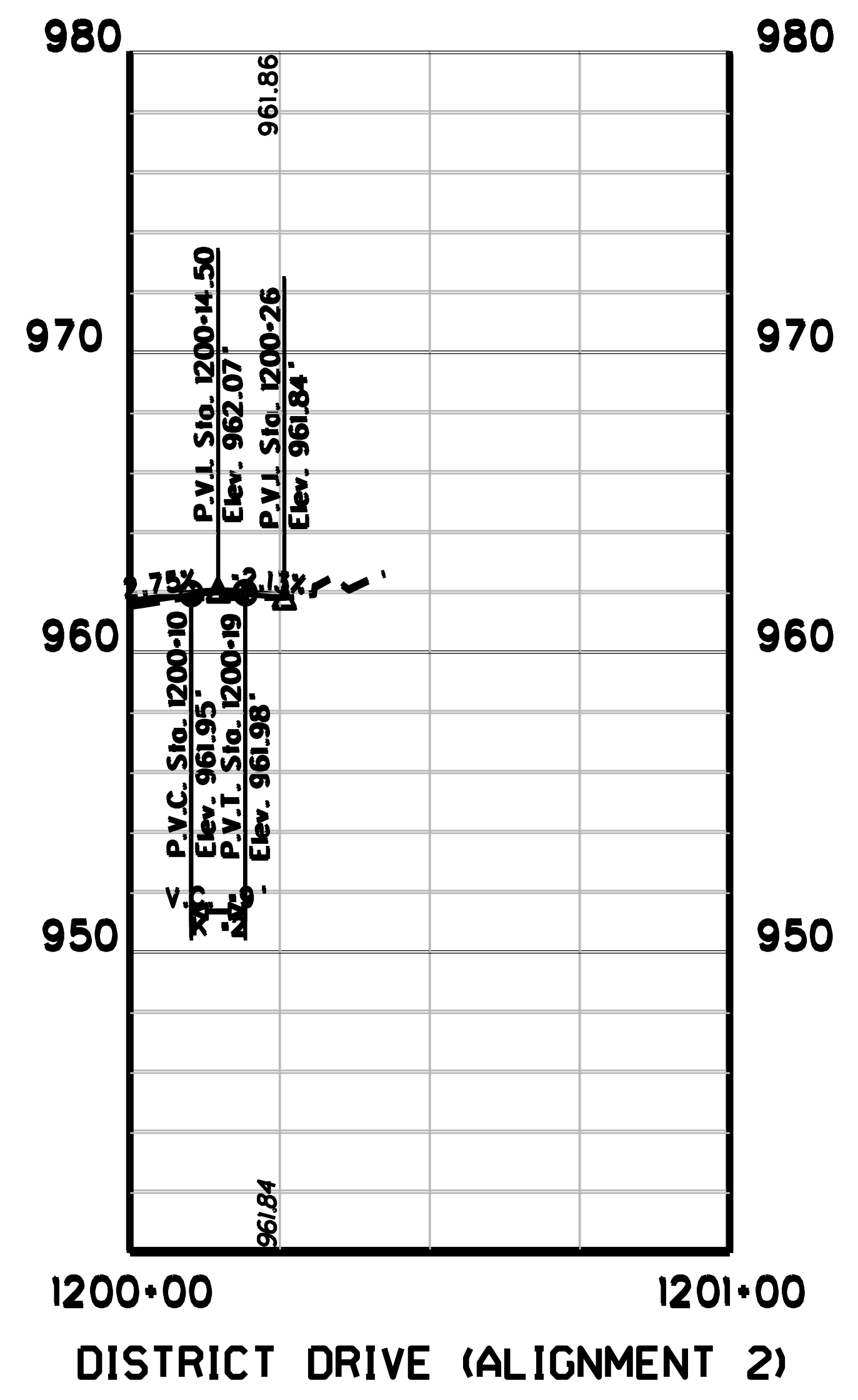
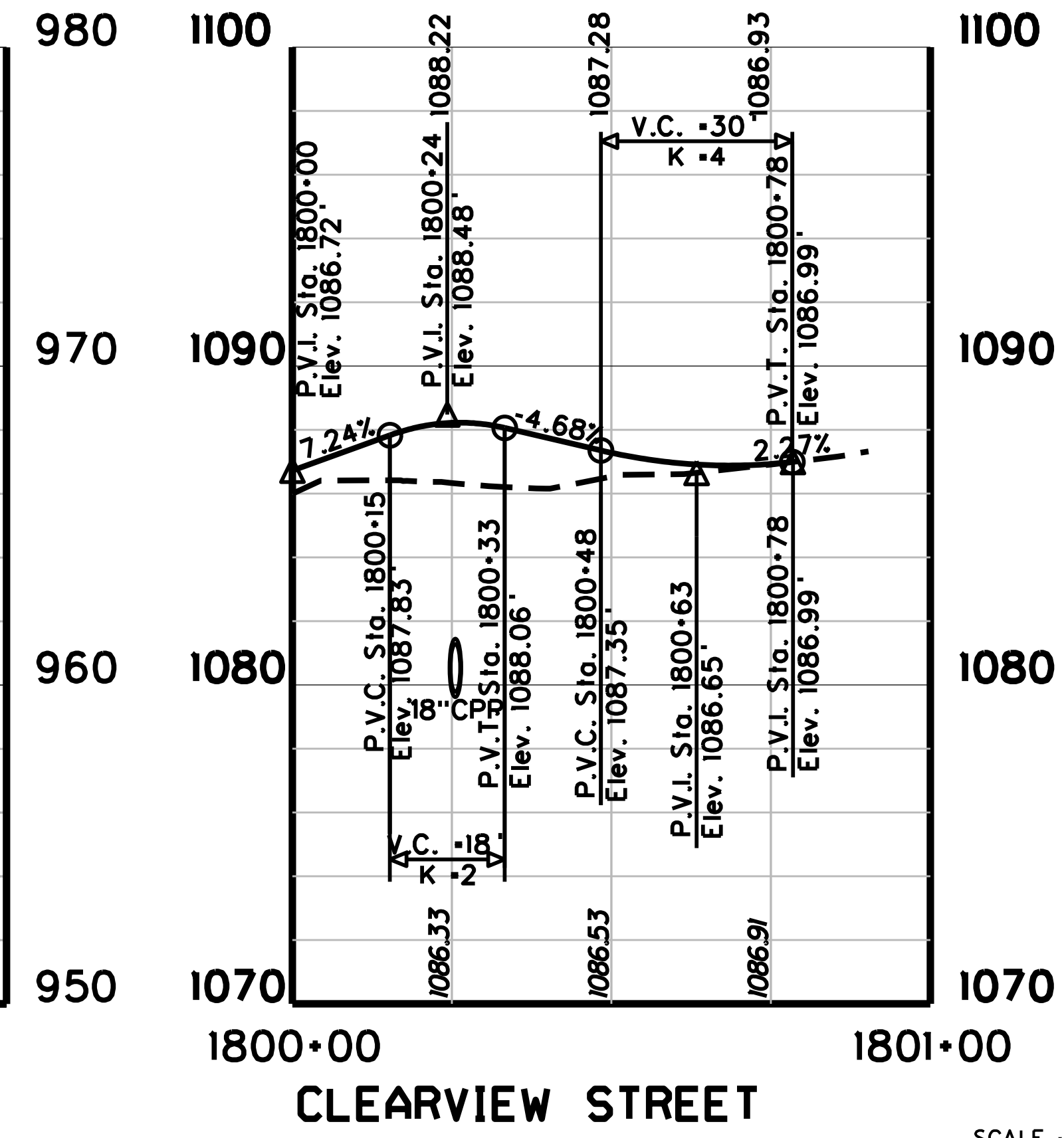
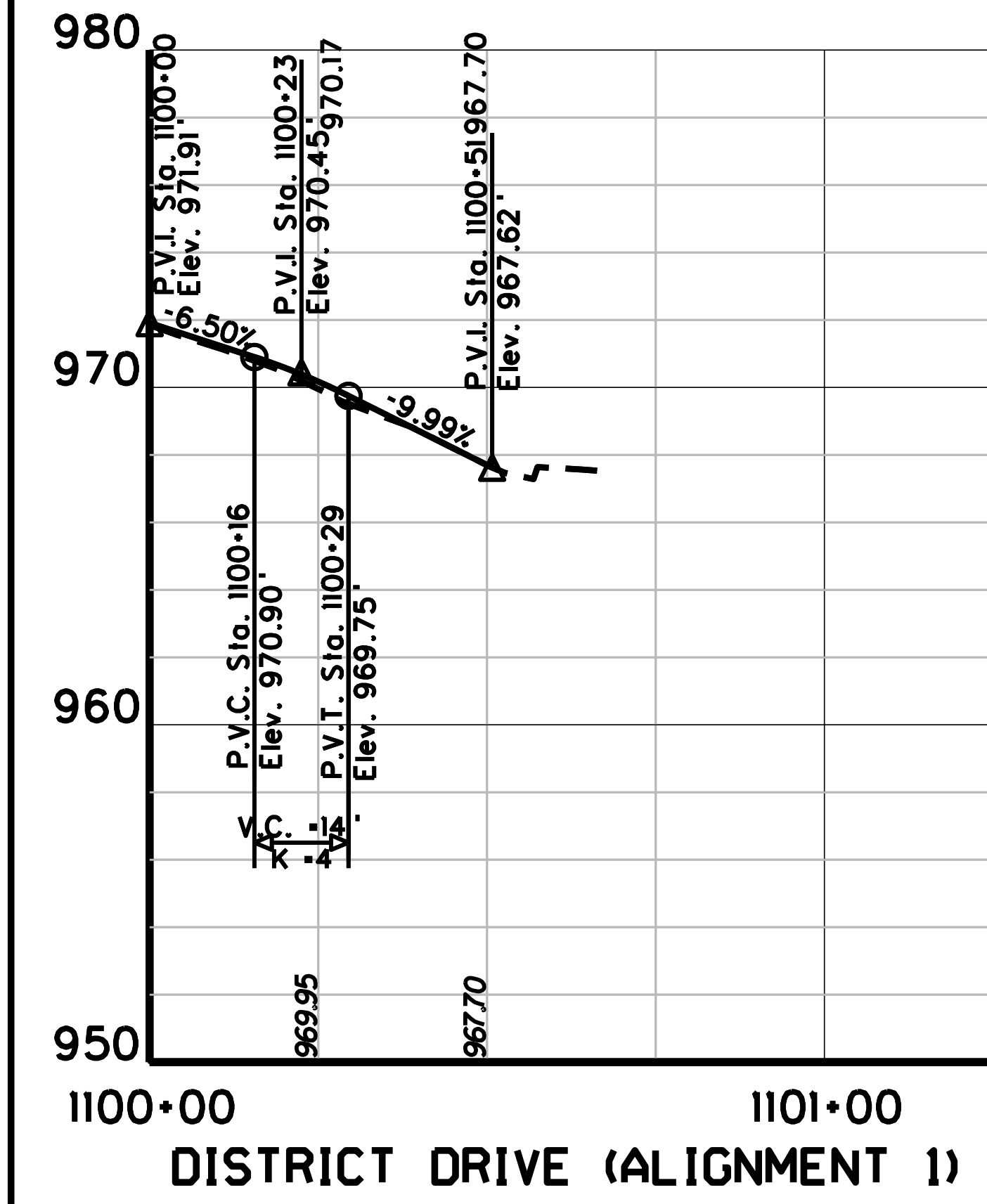
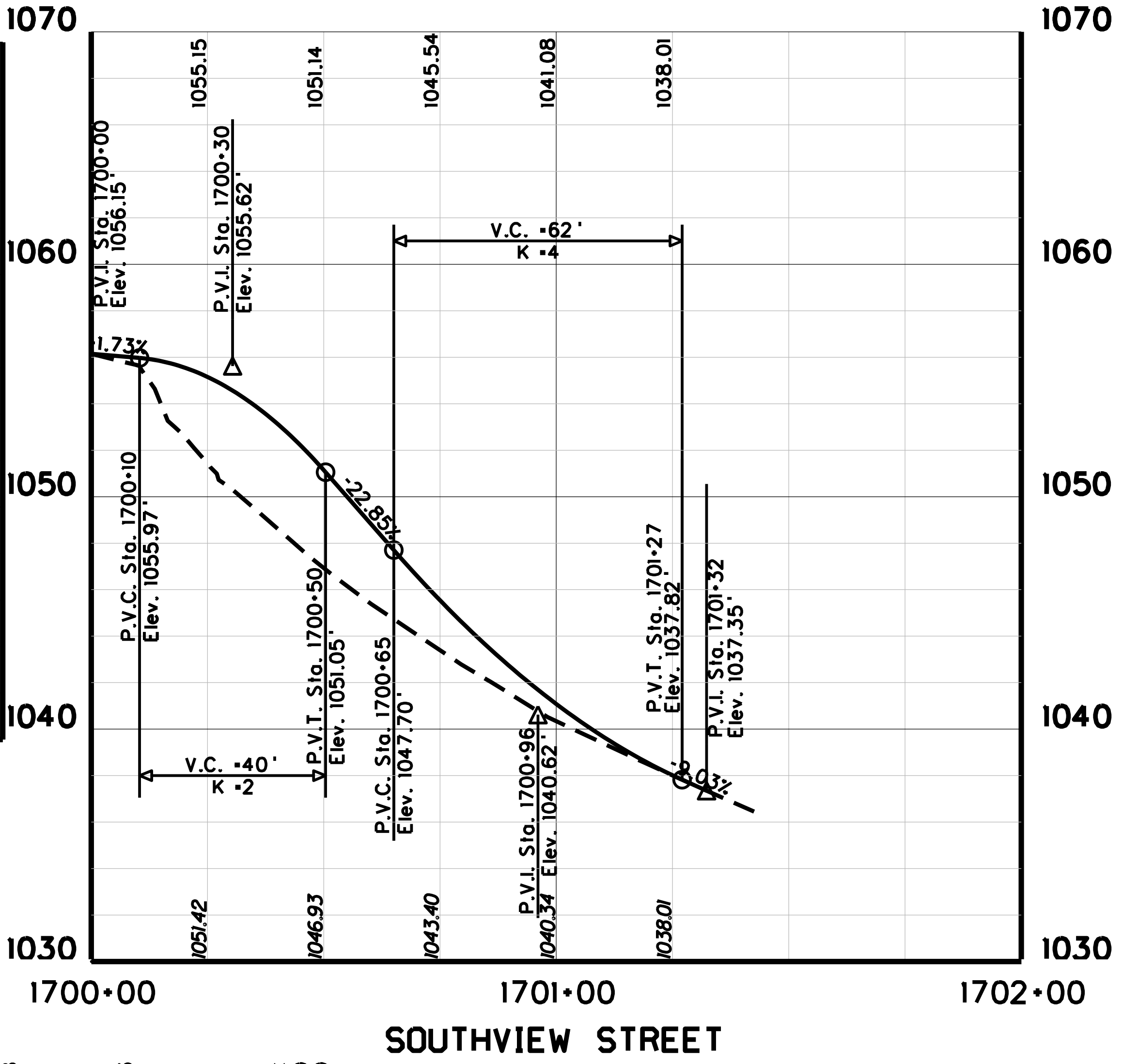
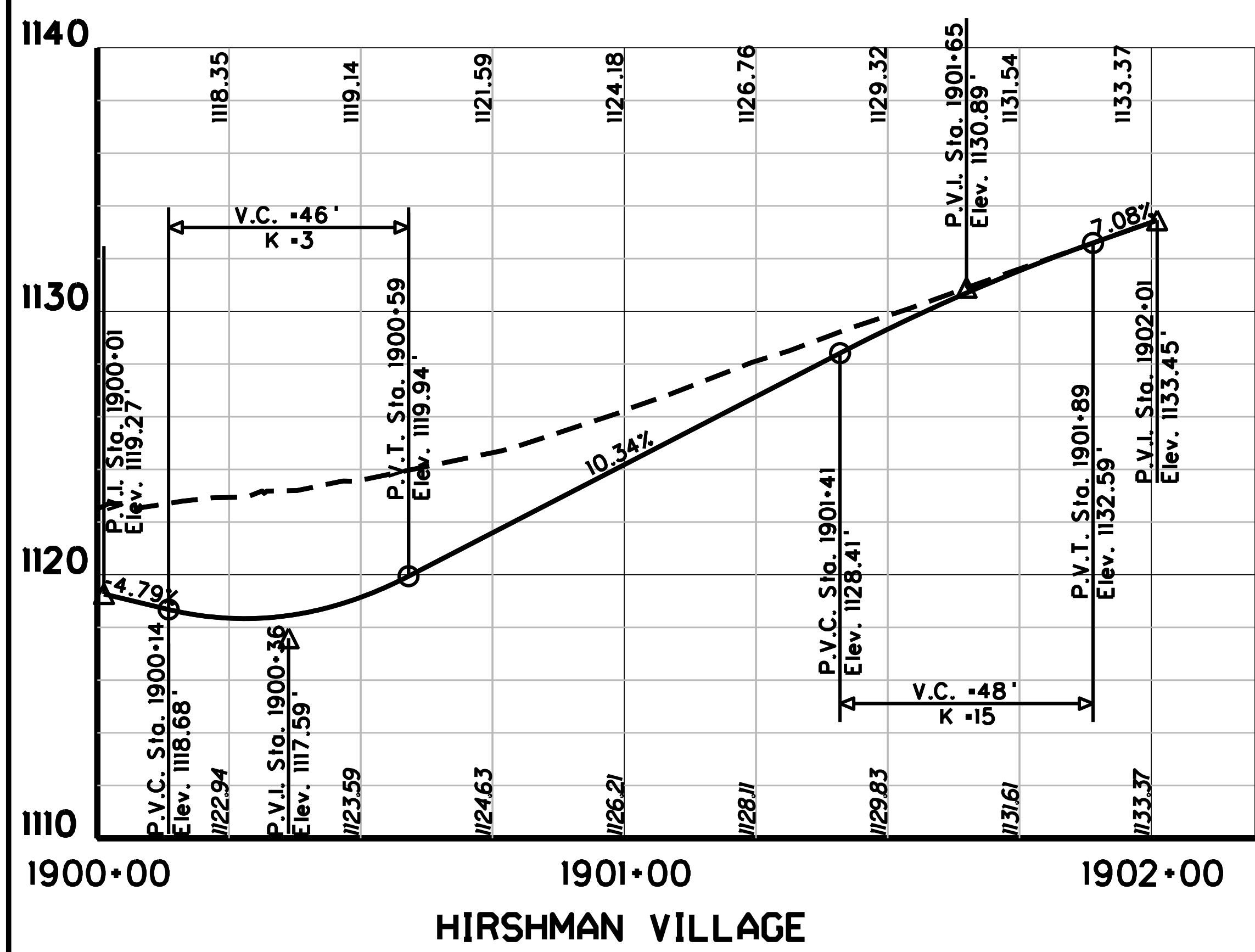
SUBMITTED 6/29/2020



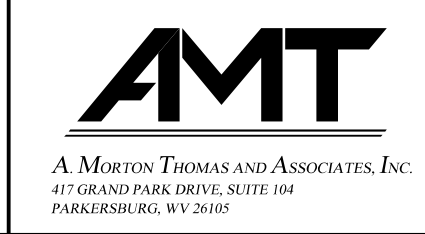
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
VAN VOORHIS ROAD PROFILE
STA. 44+75 TO 46+00

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	120	301



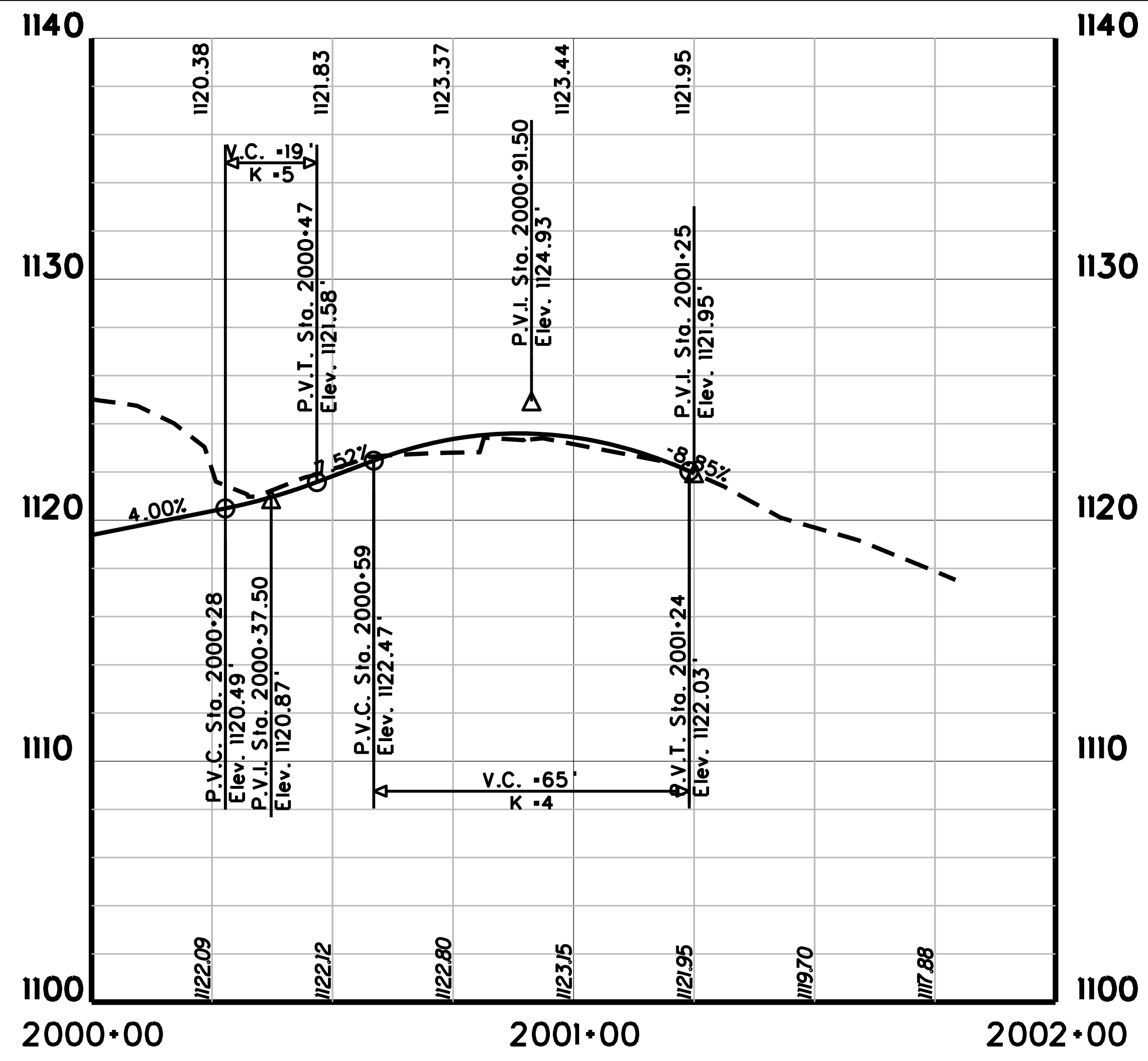
SUBMITTED 6/29/2020



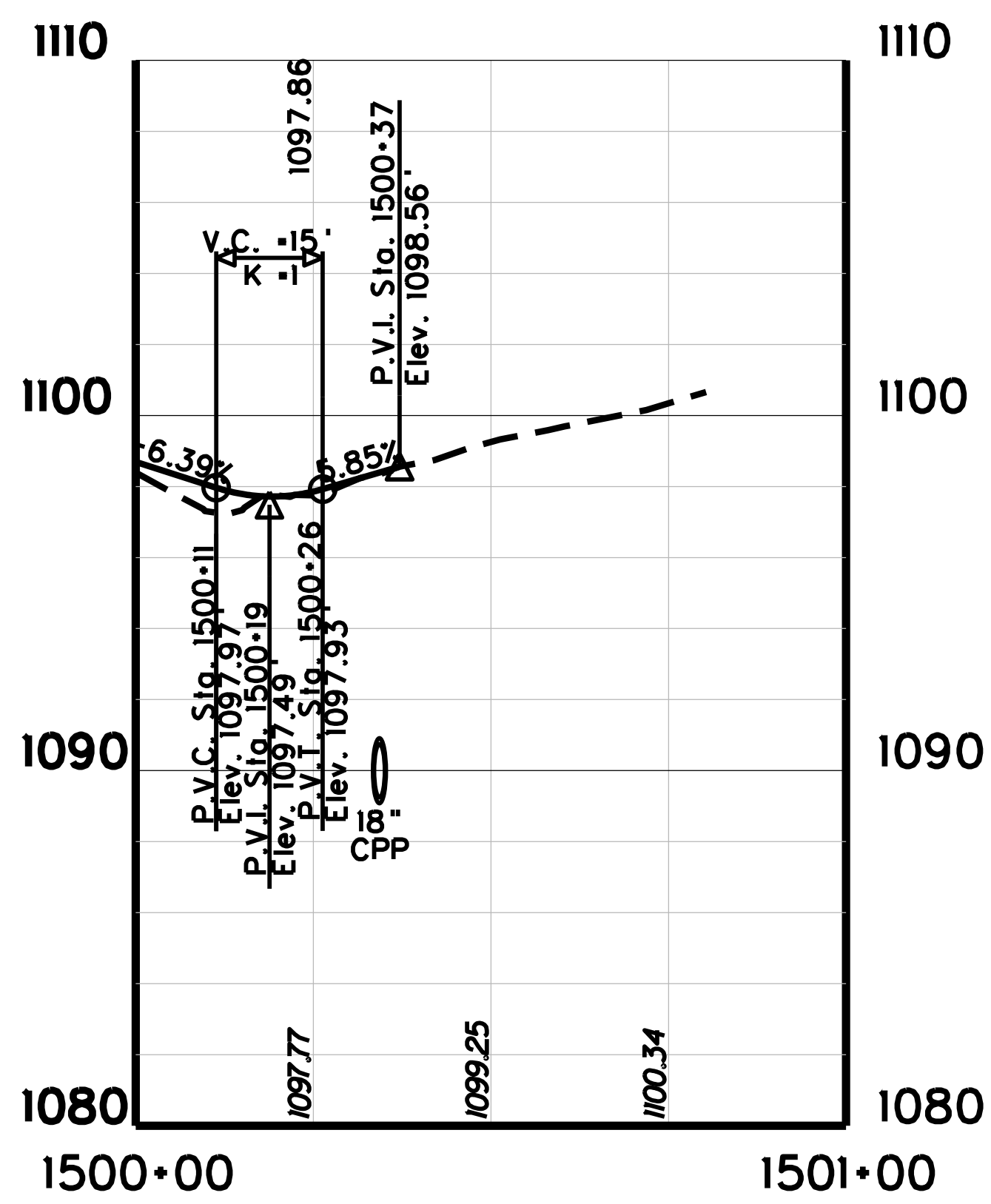
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SIDE ROAD PROFILES
STA. 0+00 TO 21+50

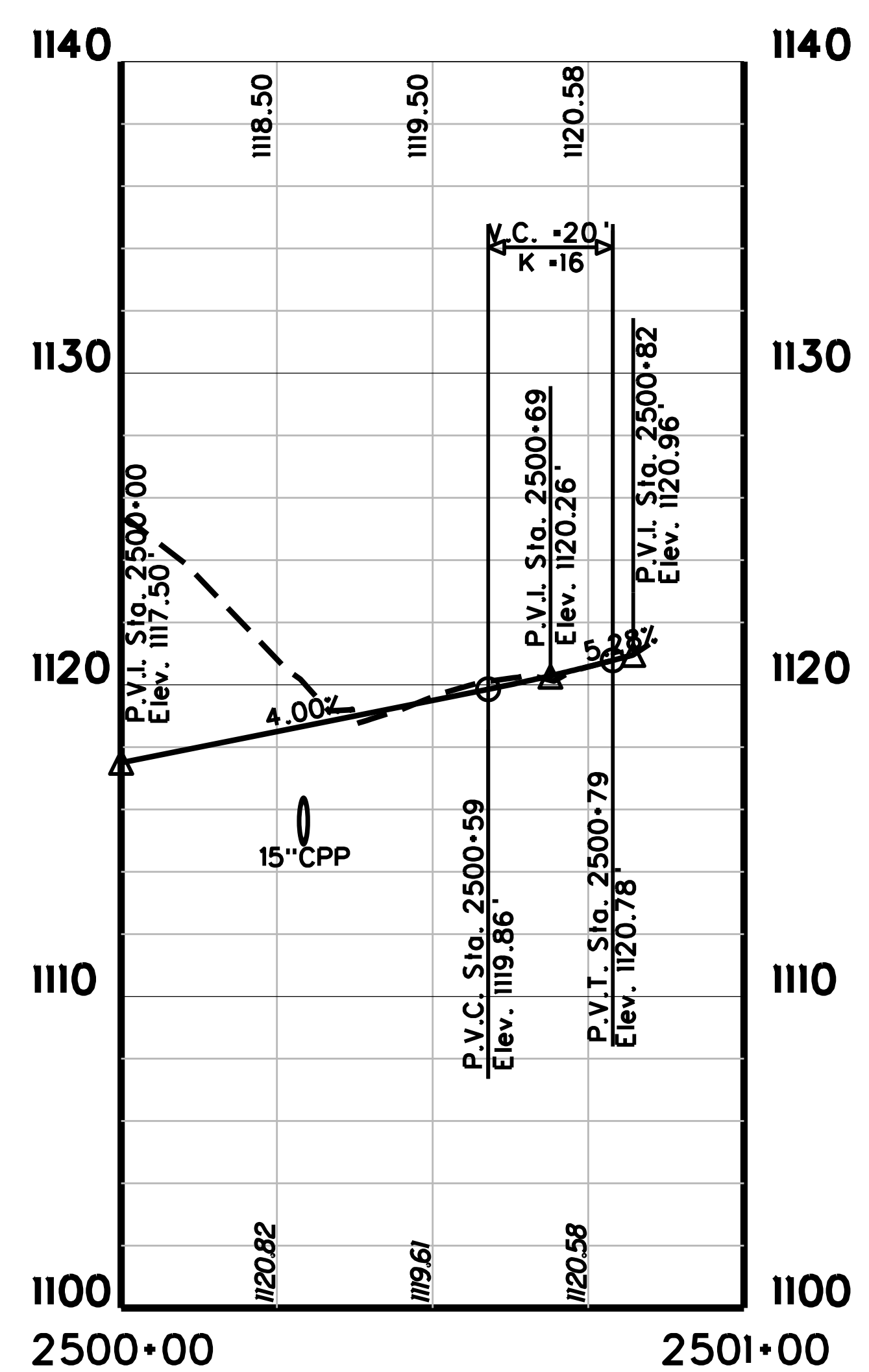
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (02310)	2020	MONONGALIA	121	301



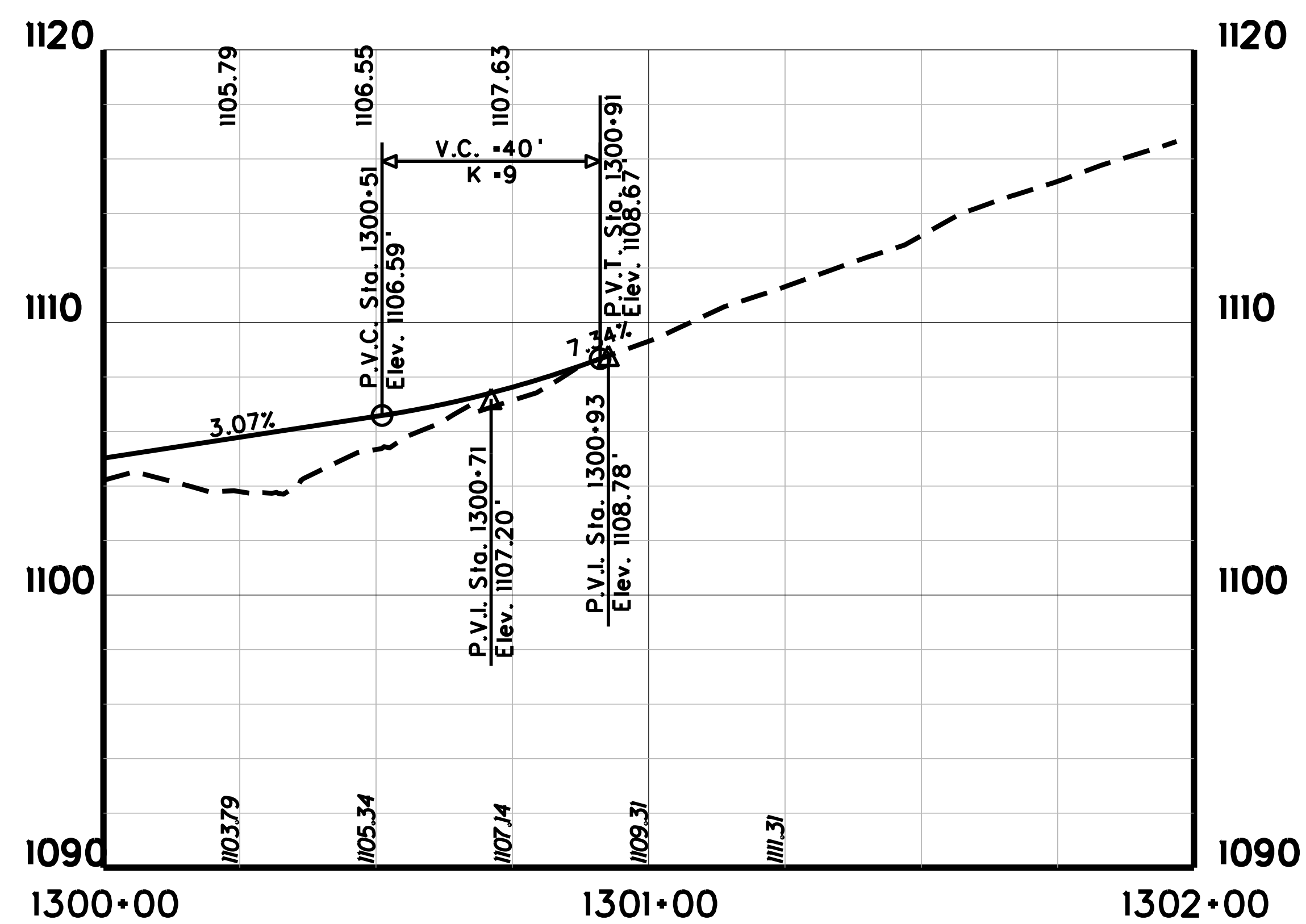
WEDGEWOOD DRIVE



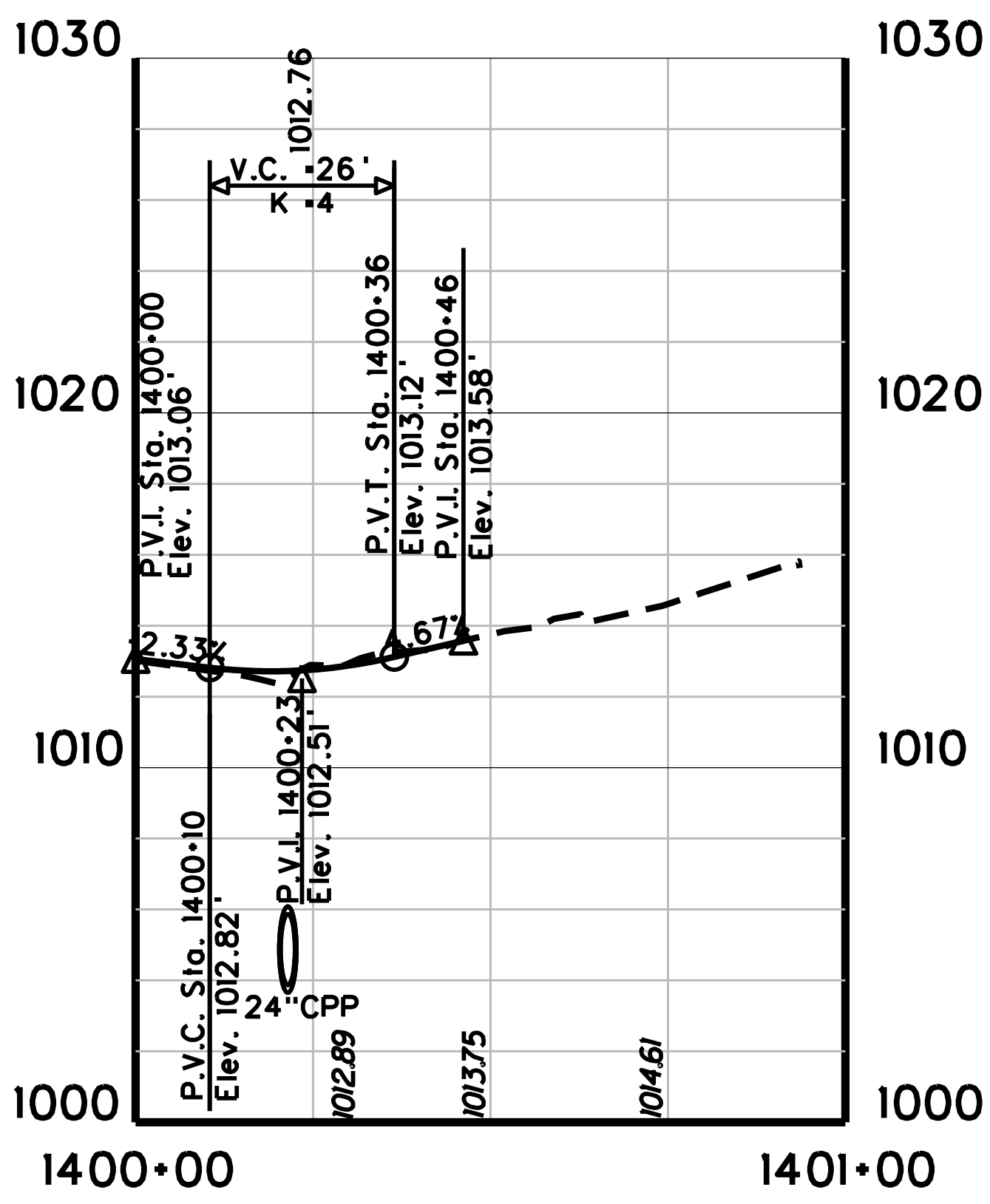
WHITE OAK COURT



DRIVEWAY

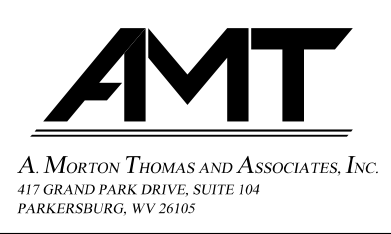
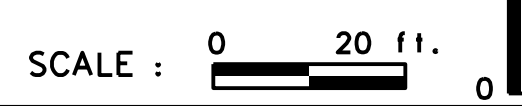


GOLDEN LIVING



WINDWOOD DRIVE

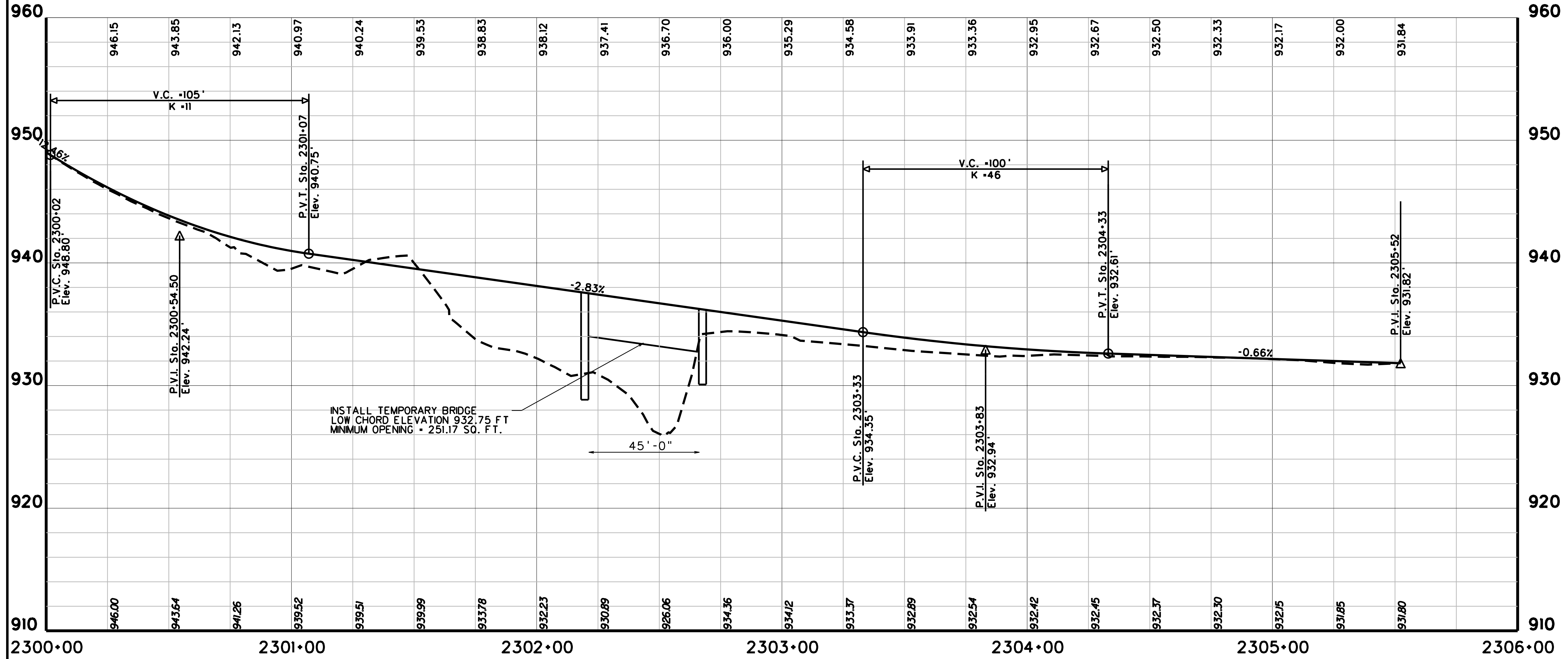
SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

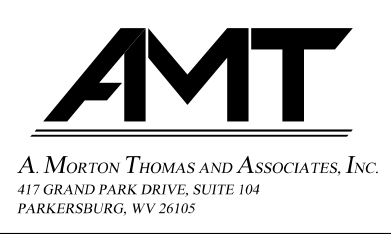
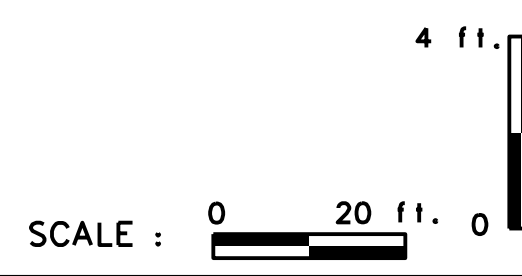
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SIDE ROAD PROFILES
STA. 21.50 TO 33.00

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	122	301



TEMPORARY ROAD DETOUR

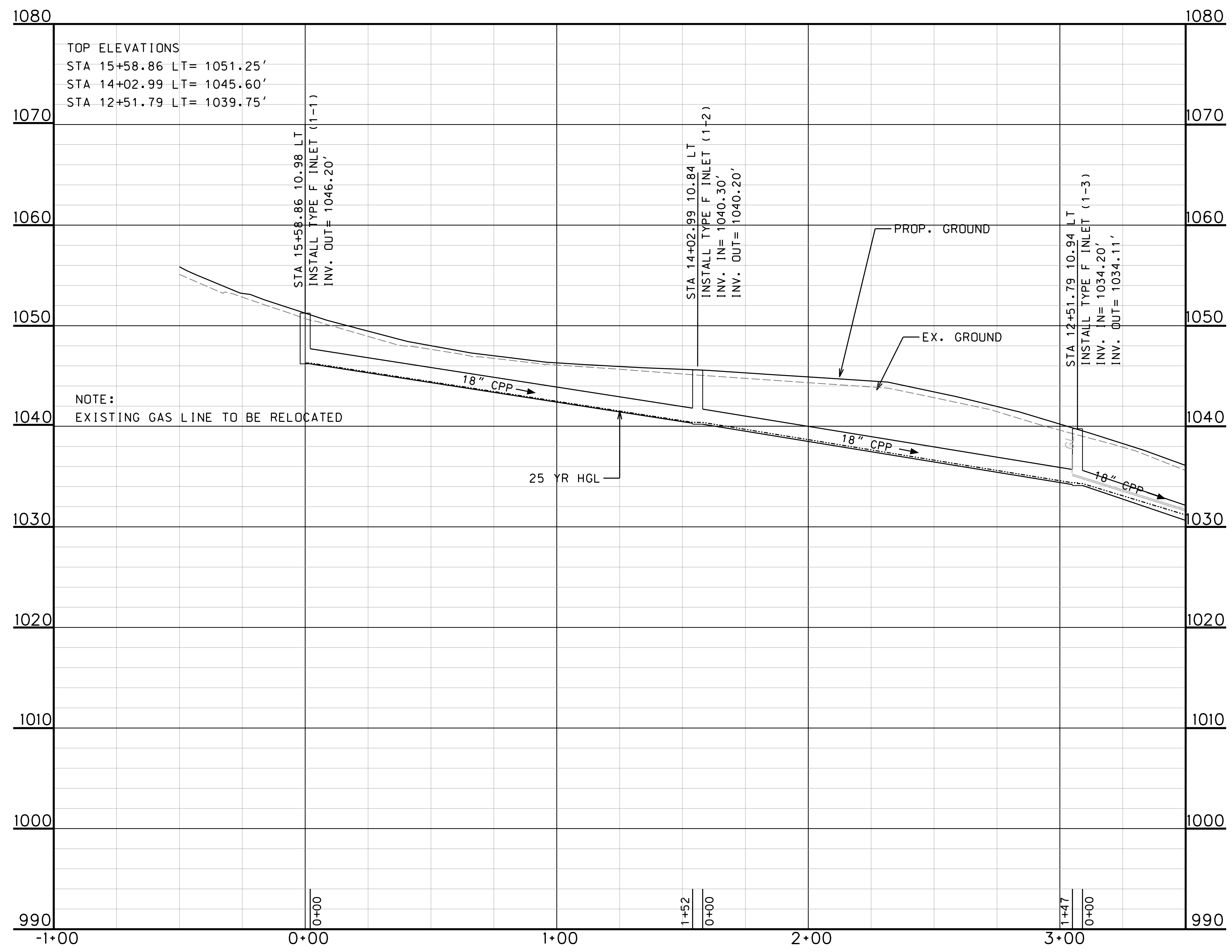
SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

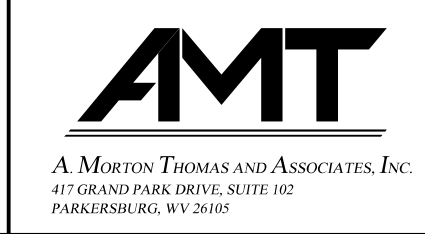
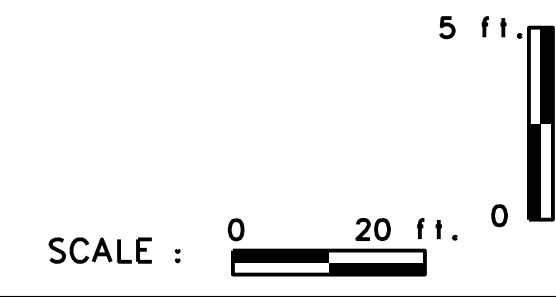
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
**TEMPORARY ROAD DETOUR
 PROFILE**

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0237D)	2020	MONONGALIA	123	301



MATCHLINE SEE STATION 3+50 ON SHEET "VAN VOORHIS DRAINAGE PROFILE STA. 0+00.00 TO 18+50.00 (2 OF 9)"

SUBMITTED 6/29/2020

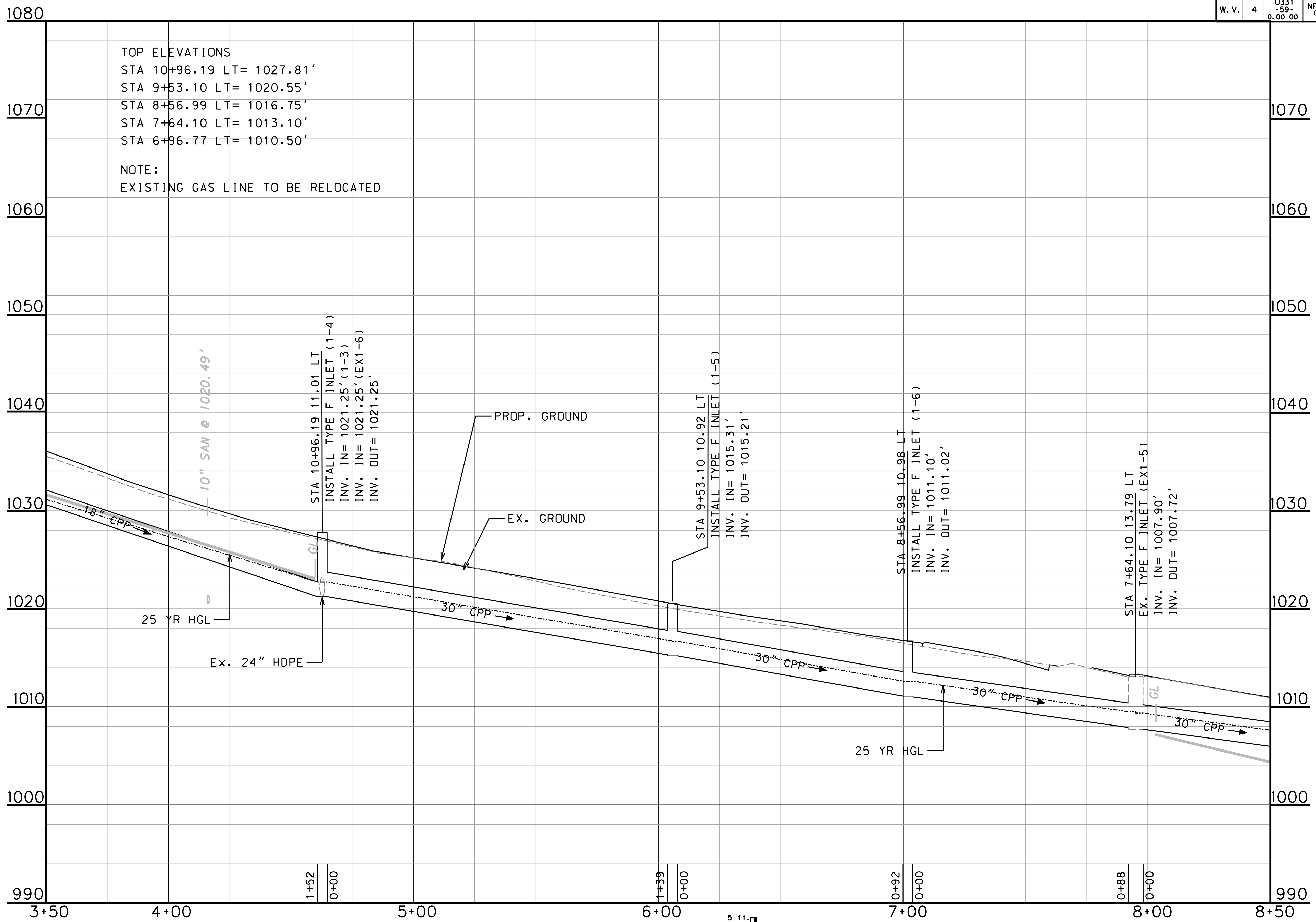


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

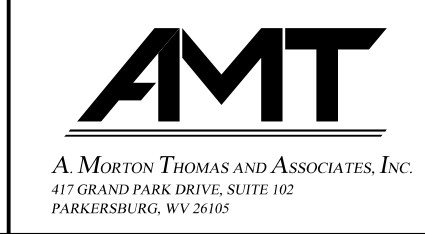
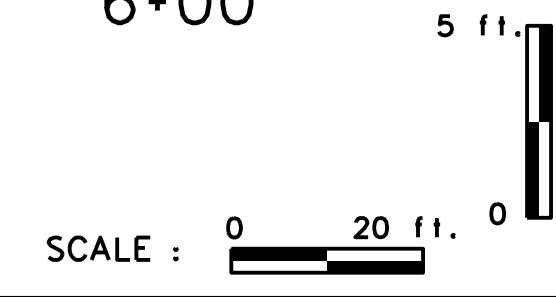
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
VAN VOORHIS DRAINAGE PROFILE
 STA. 0+00.00 TO 18+50.00 (1 OF 9)

MATCHLINE SEE STATION 3+50 ON SHEET "VAN VOORHIS DRAINAGE PROFILE STA. 0+00.00 TO 18+50.00 (1 OF 9)"

MATCHLINE SEE STATION 8+50 ON SHEET "VAN VOORHIS DRAINAGE PROFILE STA. 0+00.00 TO 18+50.00 (3 OF 9)"



SUBMITTED 6/29/2020

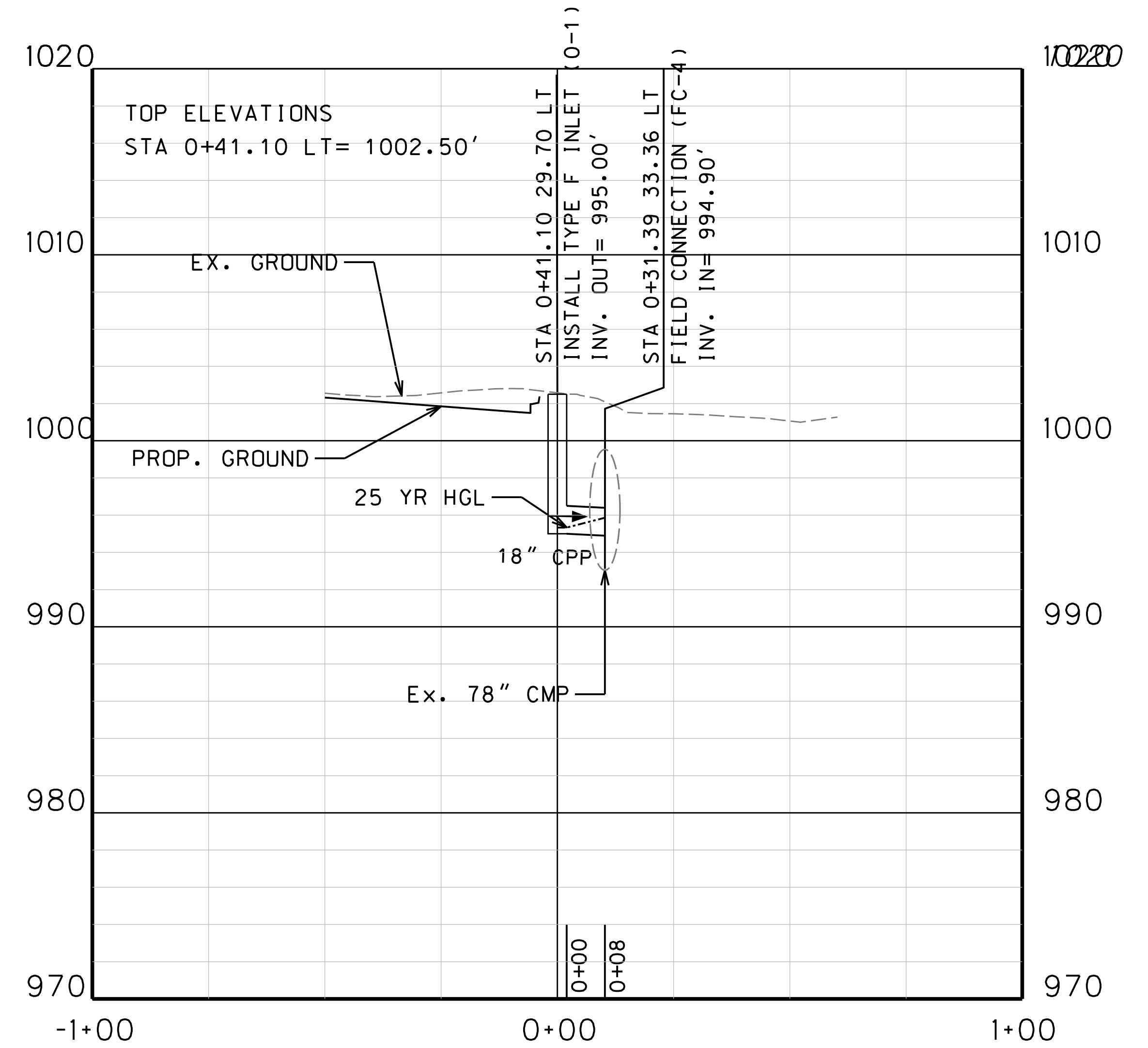
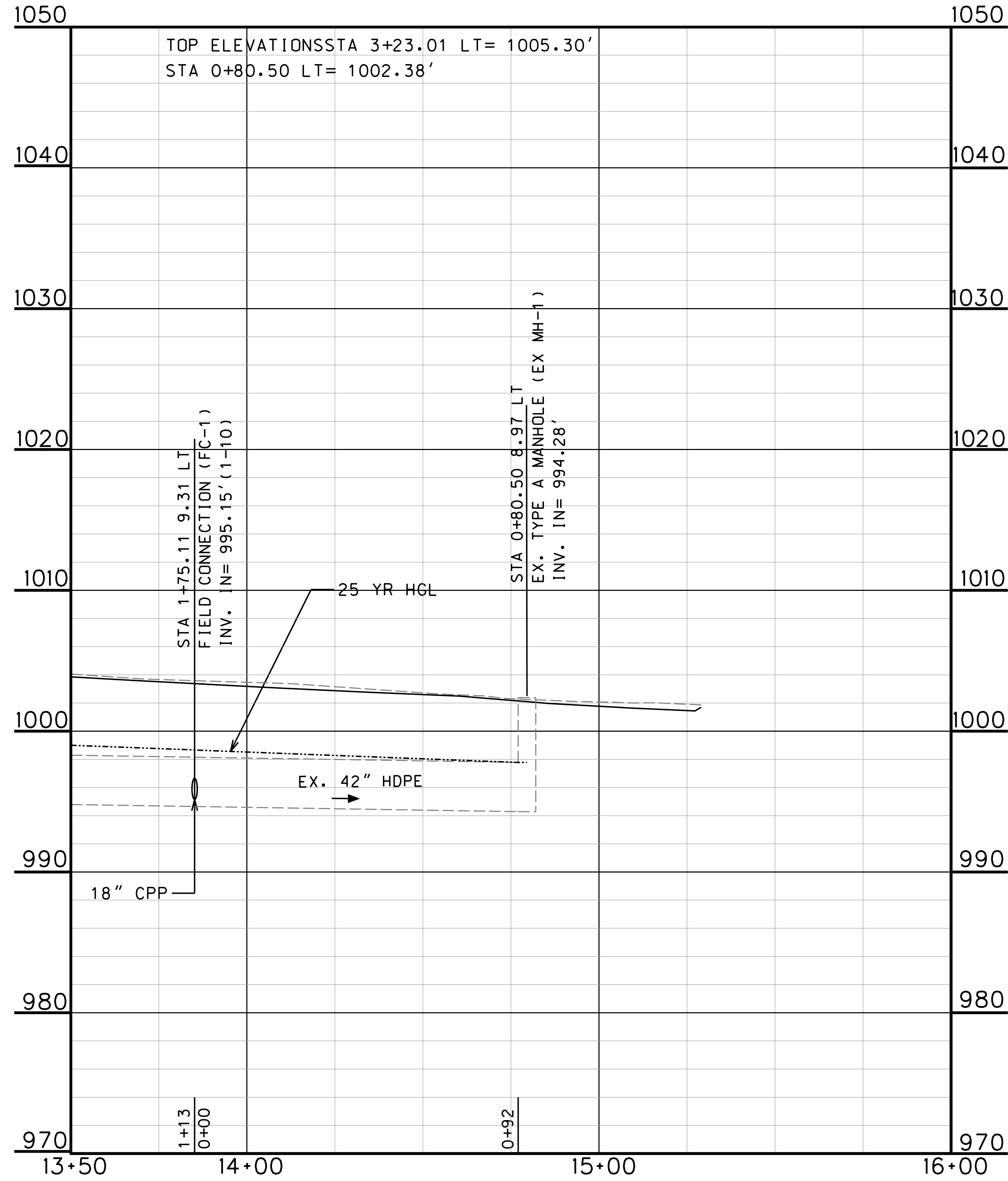


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

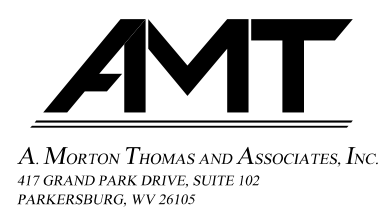
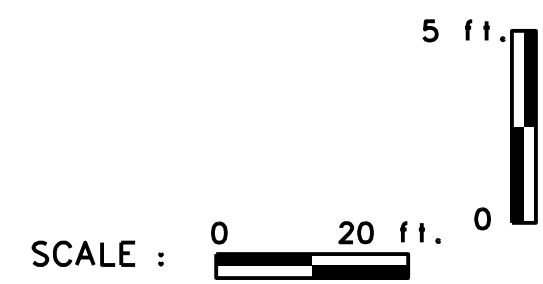
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
VAN VOORHIS DRAINAGE PROFILE
 STA. 0+00.00 TO 18+50.00 (2 OF 9)

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	126	301

MATCHLINE SEE STATION 13+50 ON SHEET "VAN VOORHIS DRAINAGE PROFILE STA. 0+00.00 TO 18+50.00 (3 OF 9)"



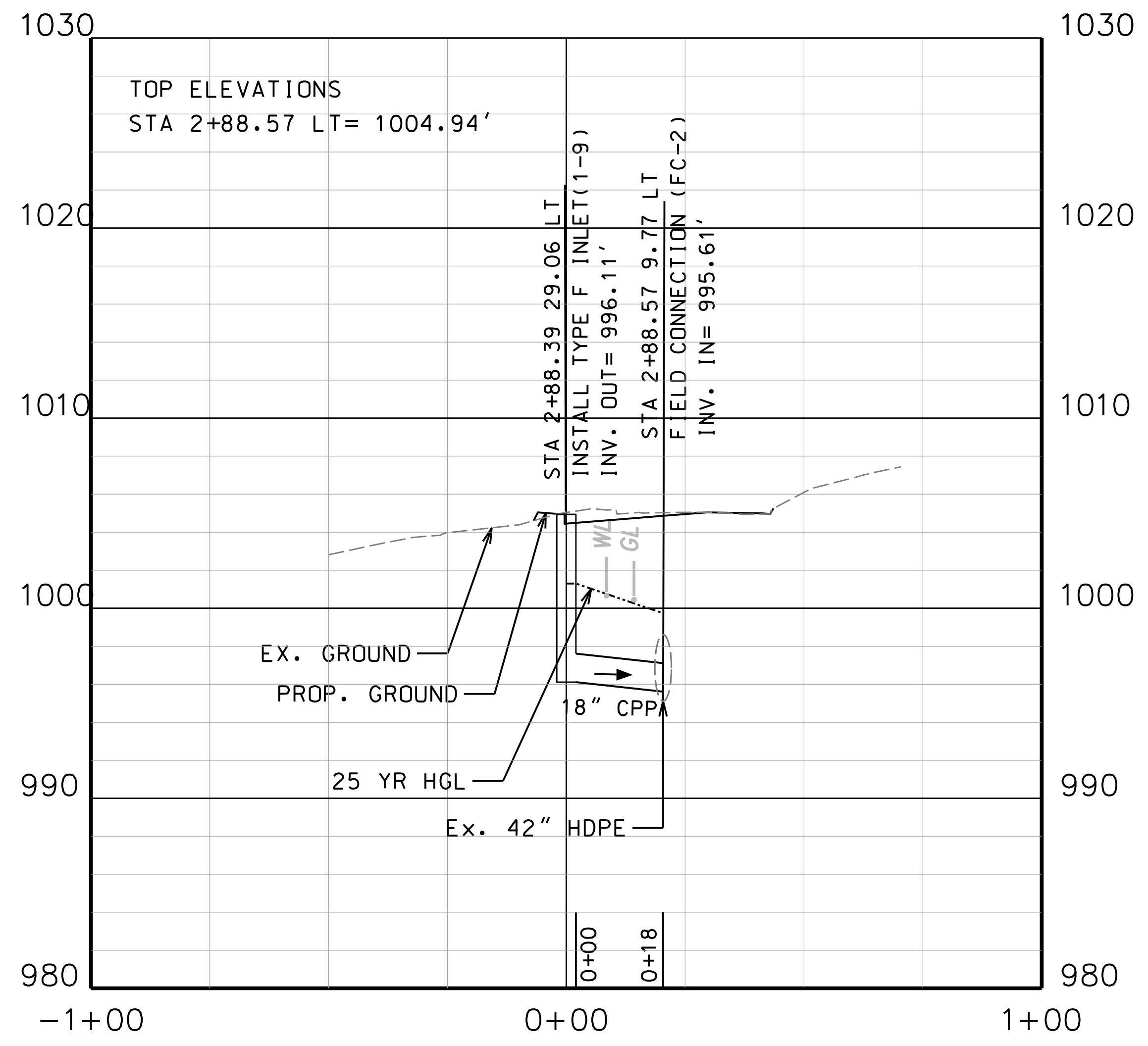
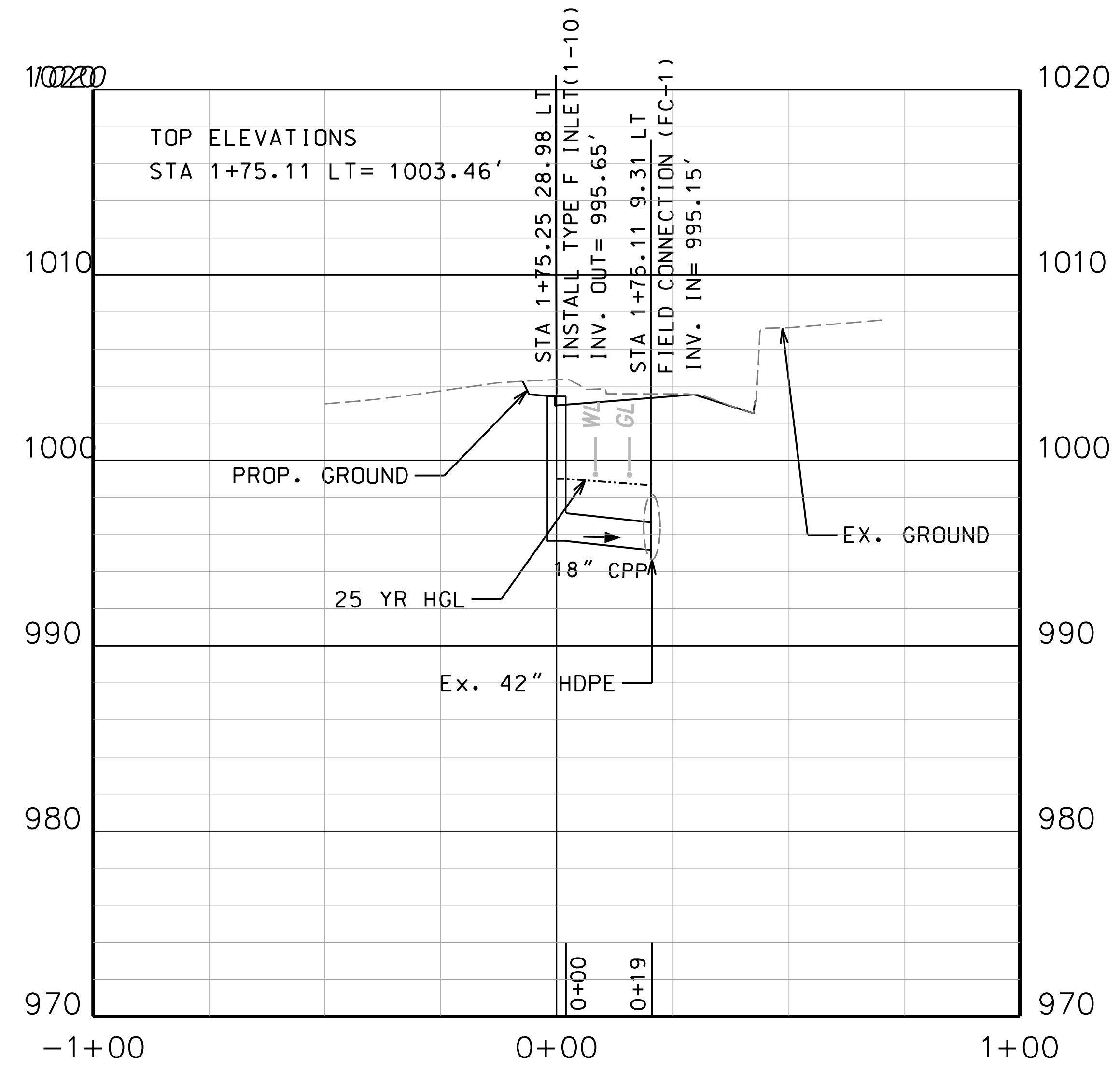
SUBMITTED 6/29/2020



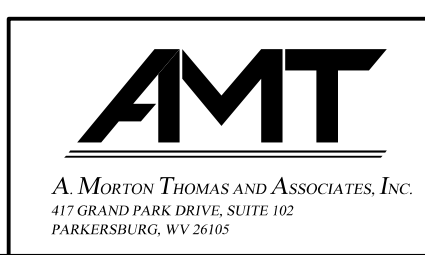
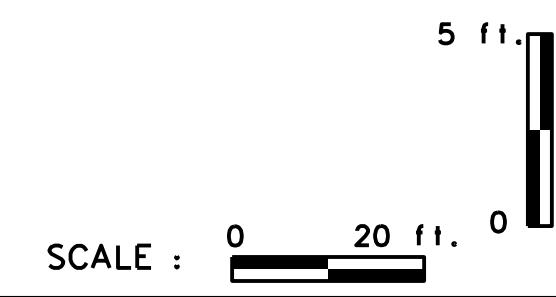
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
VAN VOORHIS DRAINAGE PROFILE
STA. 0+00.00 TO 18+50.00 (4 OF 9)

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-00.00	NFA-2317 (0231D)	2020	MONONGALIA	127	301

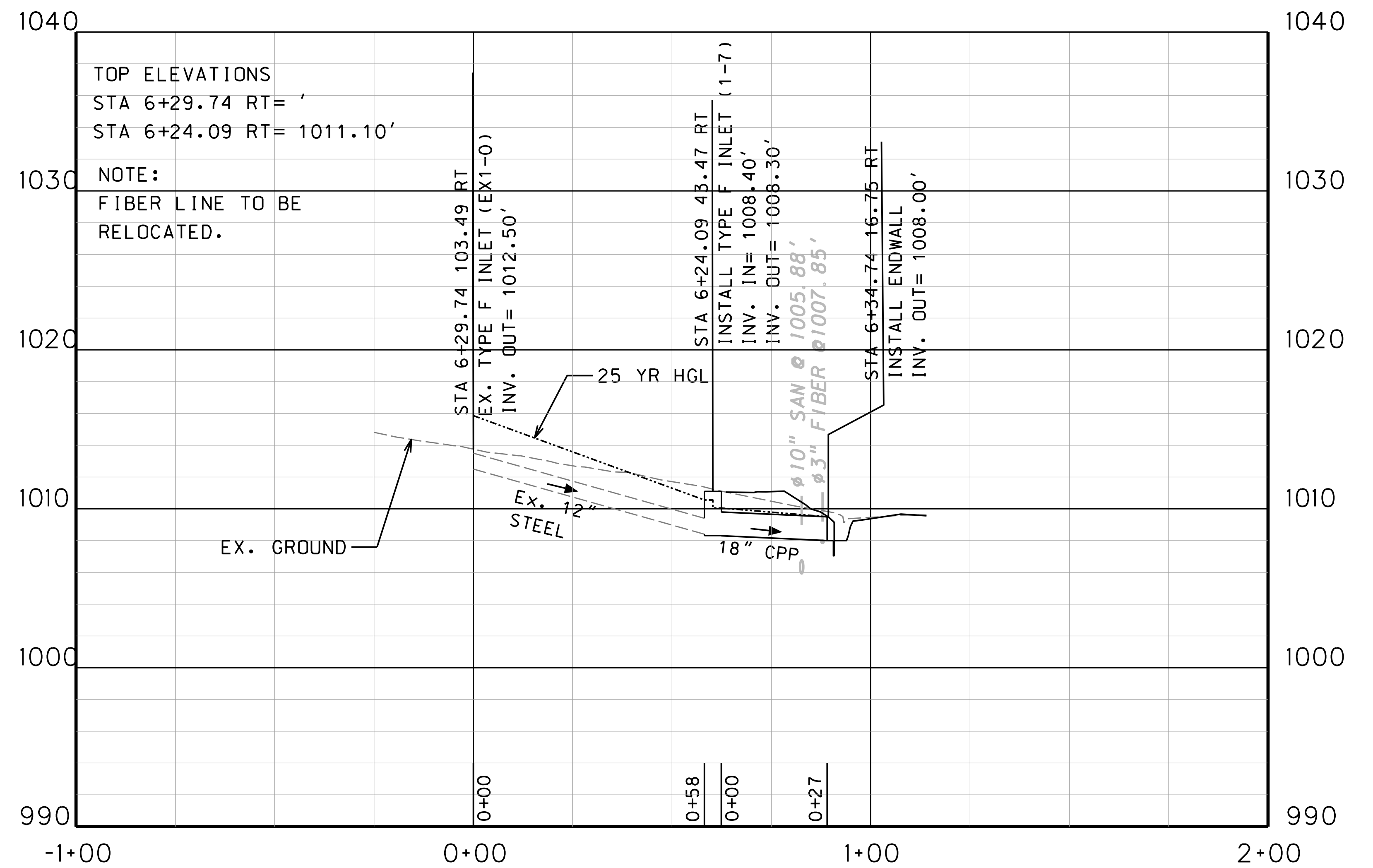
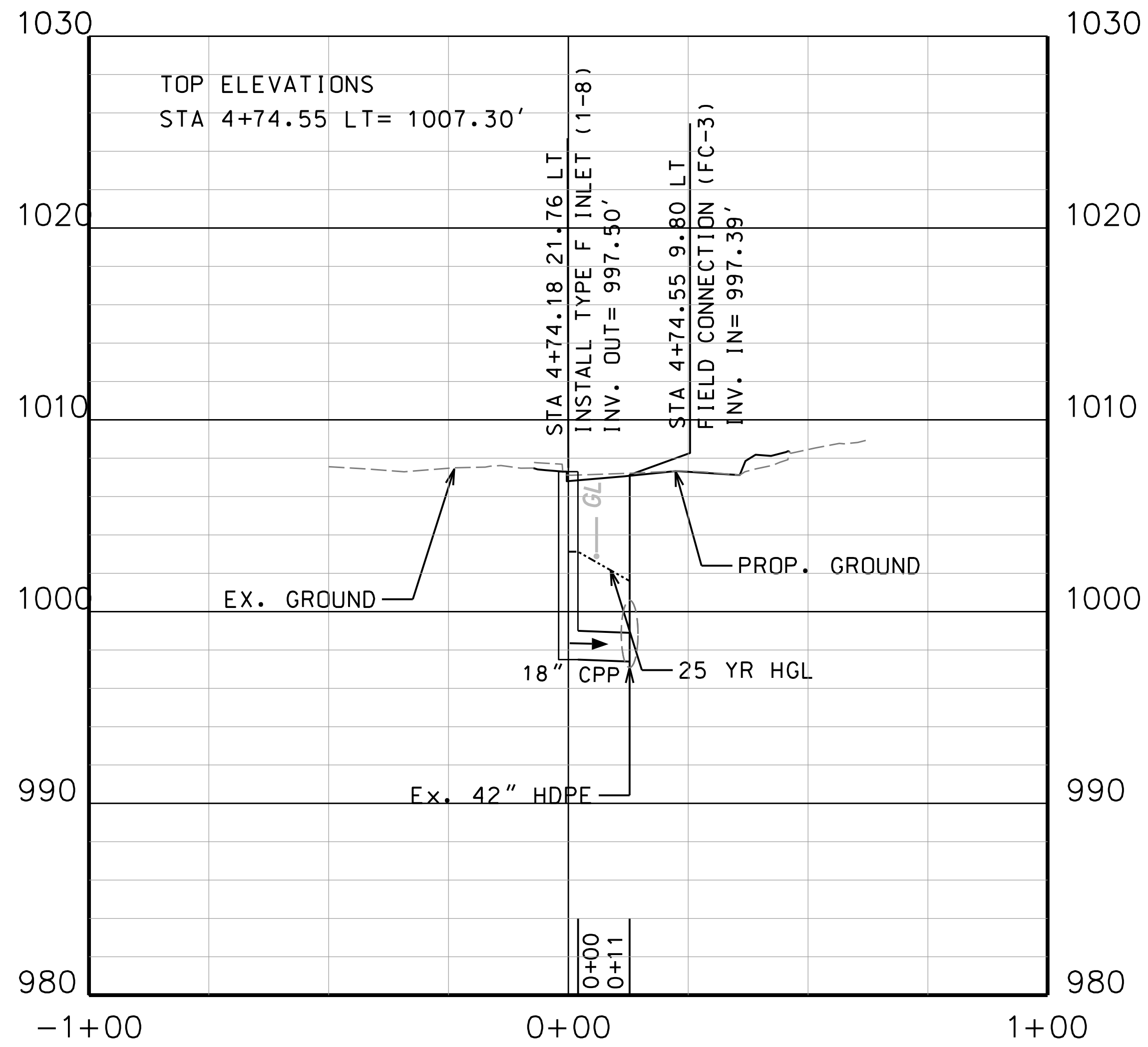


SUBMITTED 6/29/2020

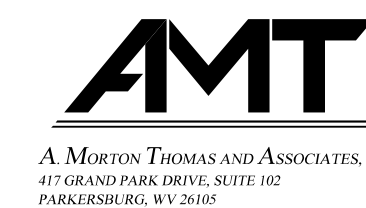
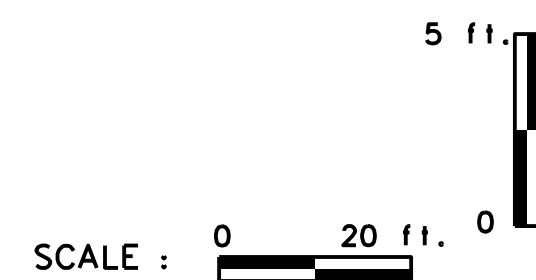


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
VAN VOORHIS DRAINAGE PROFILE
 STA. 0-00.00 TO 18-50.00 (5 OF 9)

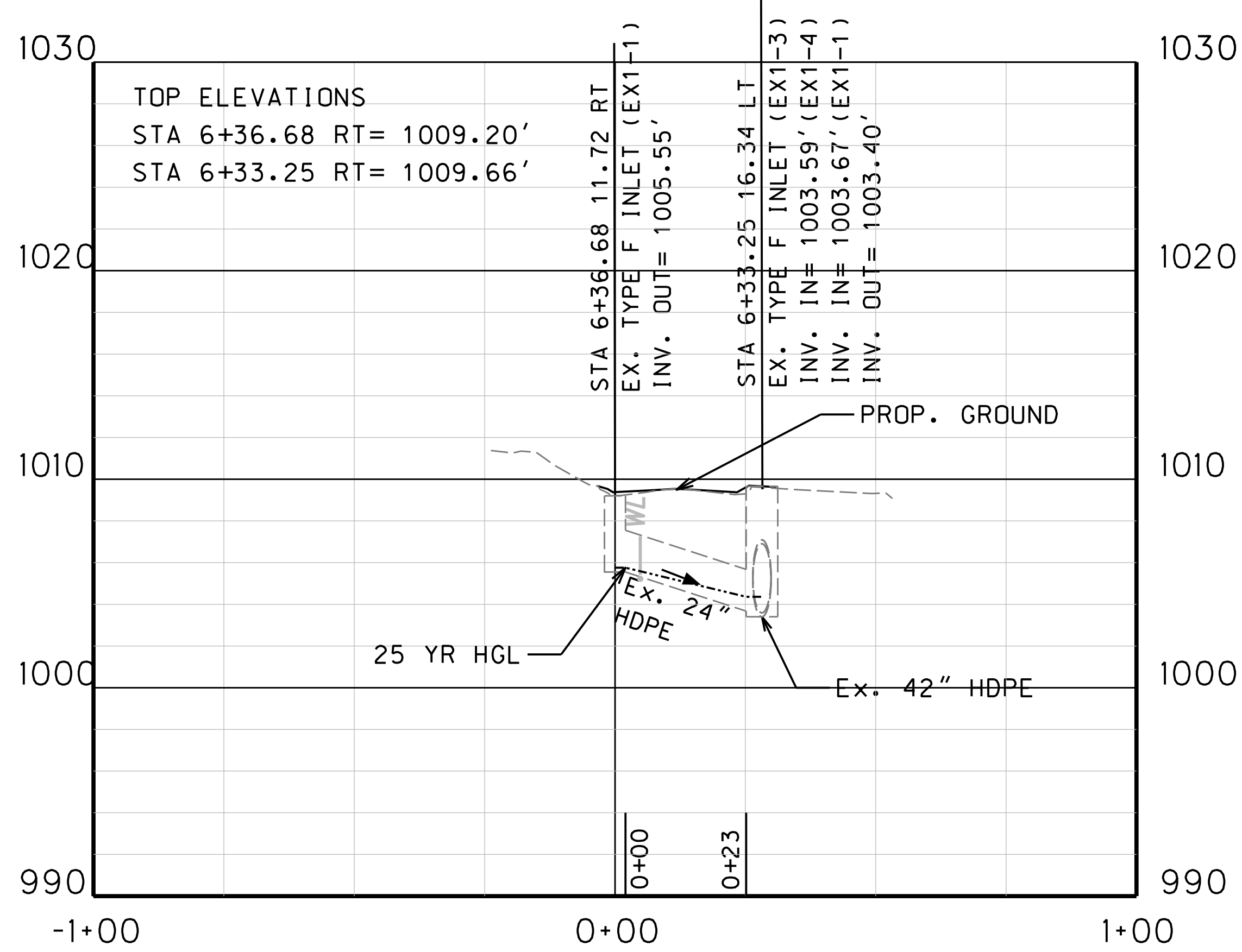
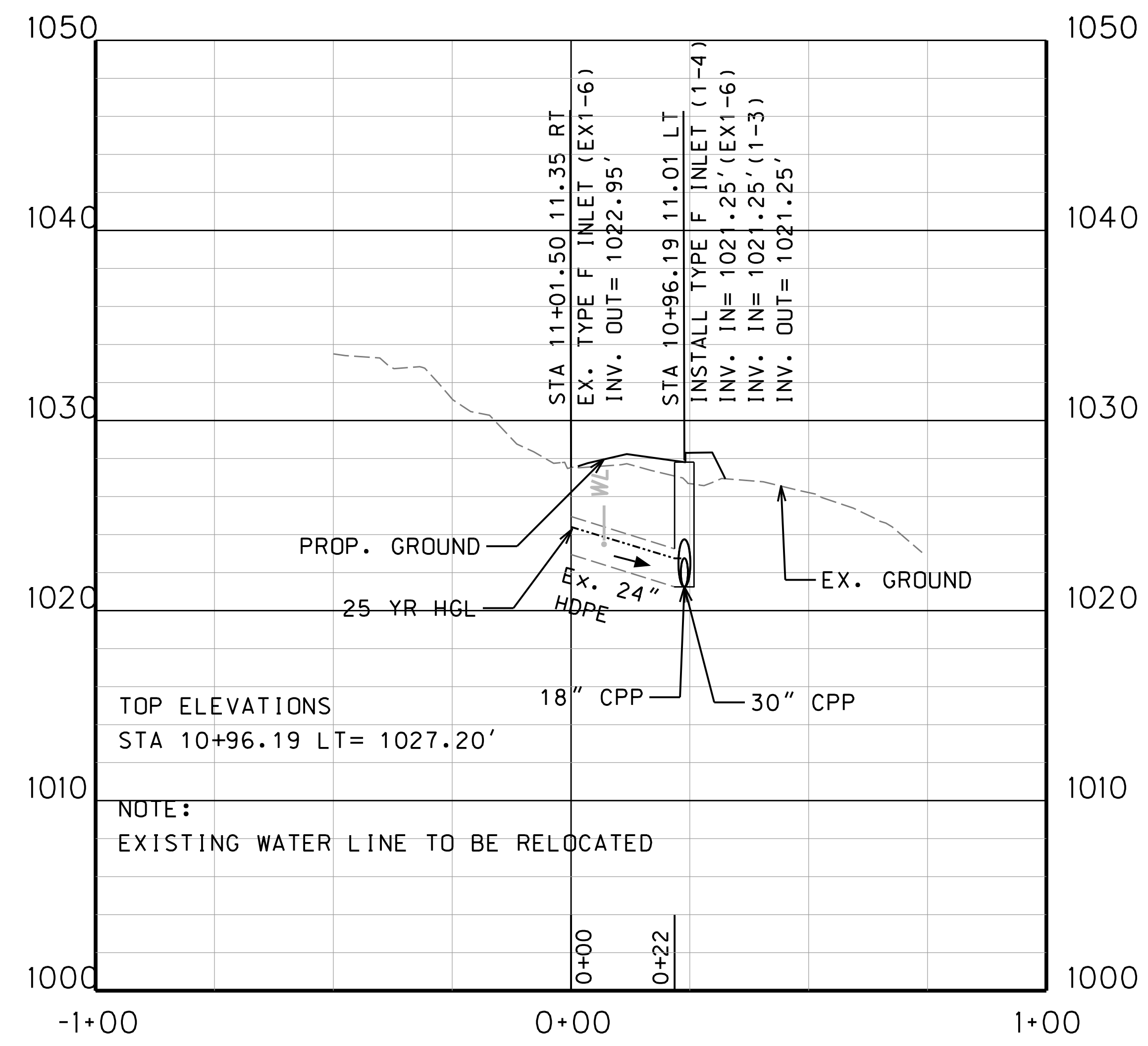
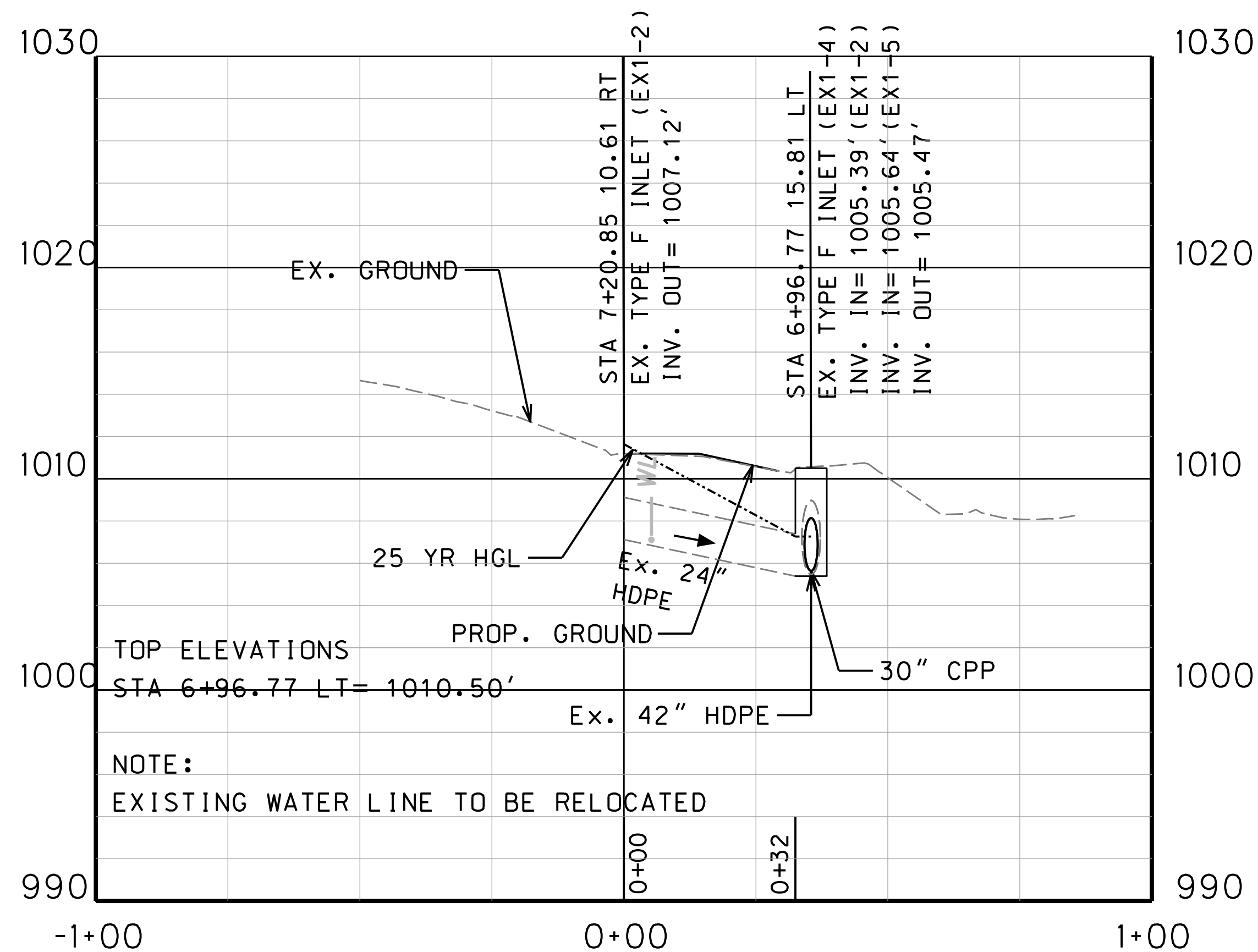


SUBMITTED 6/29/2020

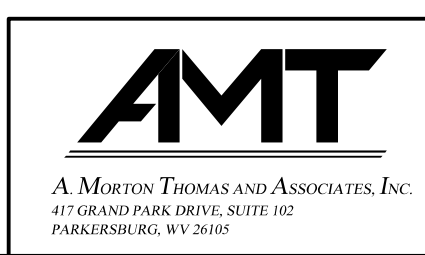
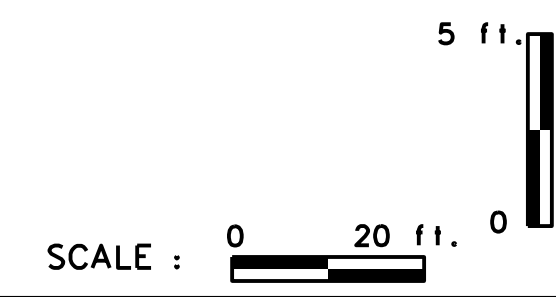


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
VAN VOORHIS DRAINAGE PROFILE
STA. 0-00.00 TO 18-50.00 (6 OF 9)



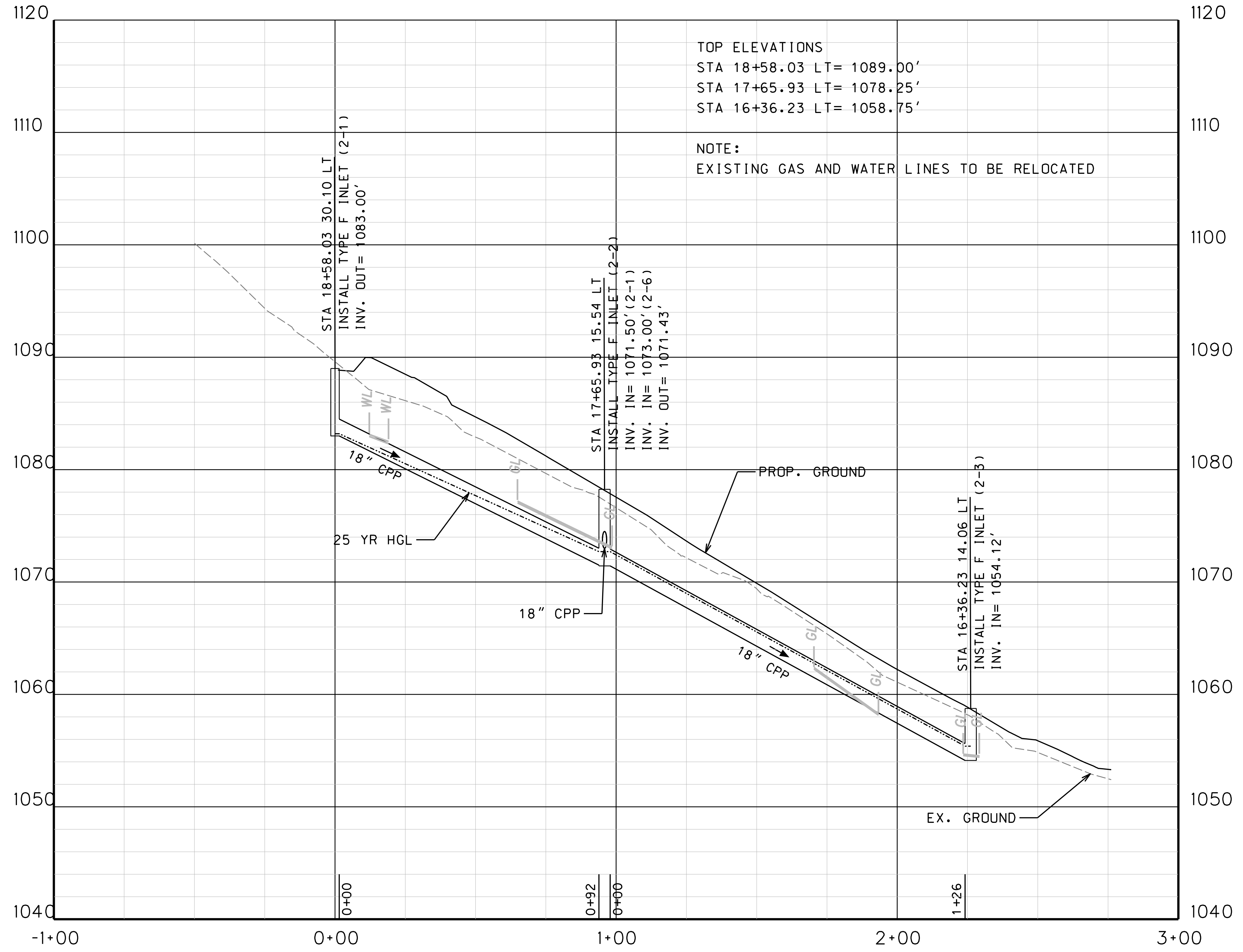
SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
VAN VOORHIS DRAINAGE PROFILE
STA. 0-00.00 TO 18-50.00 (7 OF 9)

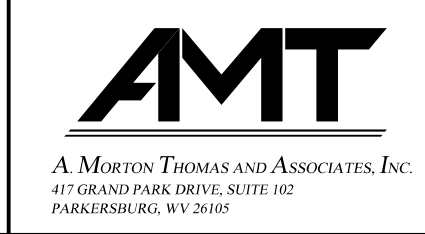
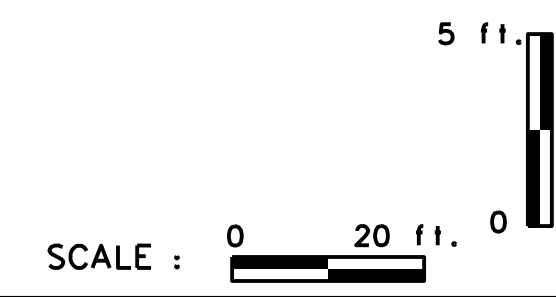
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-00.00	NFA-2317 (0231D)	2020	MONONGALIA	130	301



TOP ELEVATIONS
 STA 18+58.03 LT= 1089.00'
 STA 17+65.93 LT= 1078.25'
 STA 16+36.23 LT= 1058.75'

NOTE:
 EXISTING GAS AND WATER LINES TO BE RELOCATED

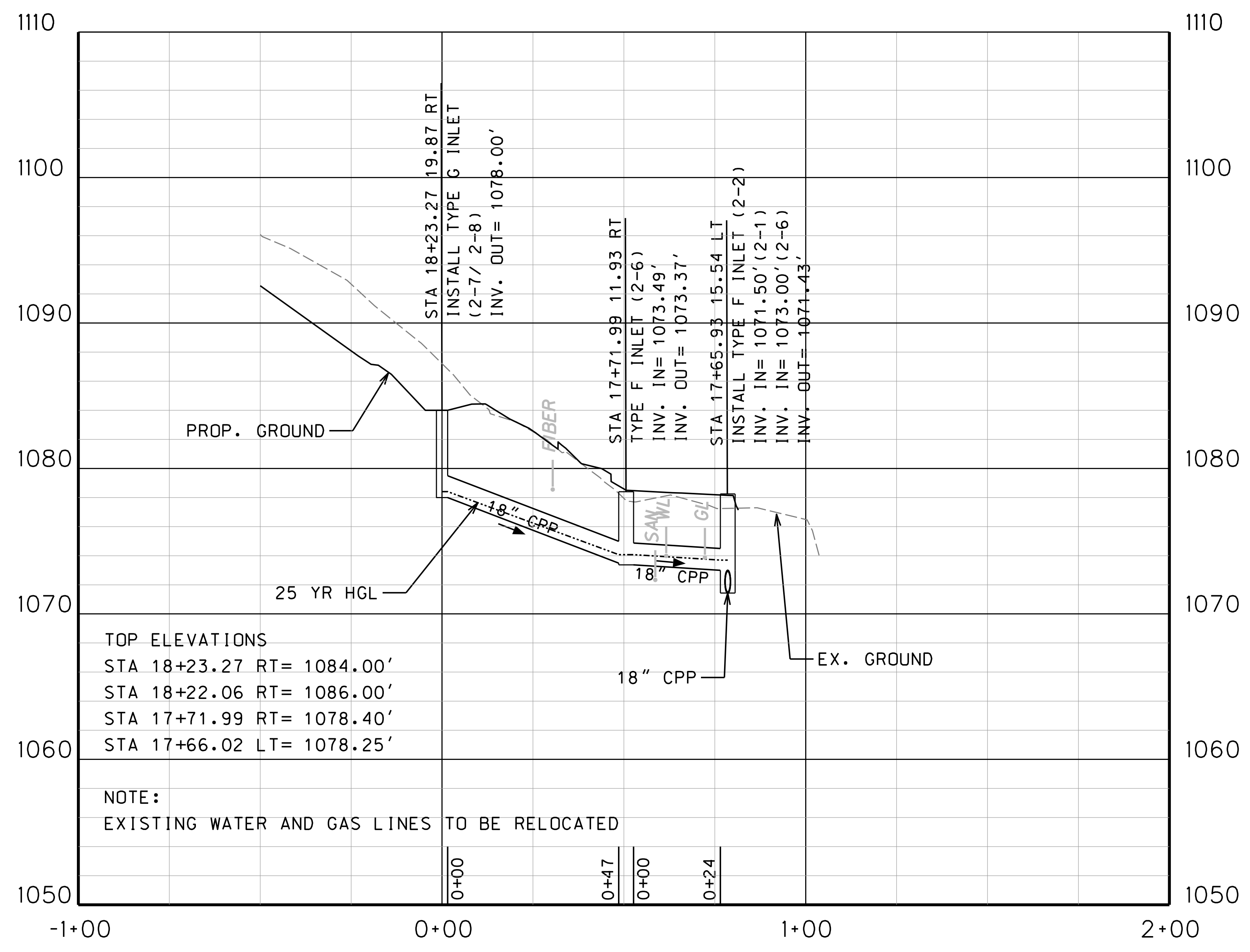
SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
VAN VOORHIS DRAINAGE PROFILE
STA. 0+00.00 TO 18-50.00 (8 OF 9)

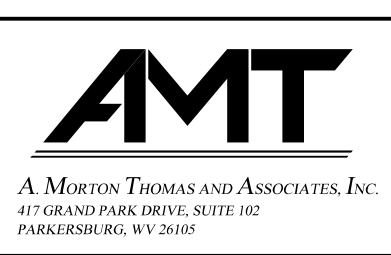
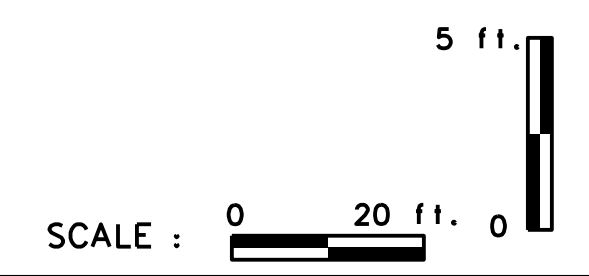
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	131	301



TOP ELEVATIONS
 STA 18+23.27 RT= 1084.00'
 STA 18+22.06 RT= 1086.00'
 STA 17+71.99 RT= 1078.40'
 STA 17+66.02 LT= 1078.25'

NOTE:
 EXISTING WATER AND GAS LINES TO BE RELOCATED

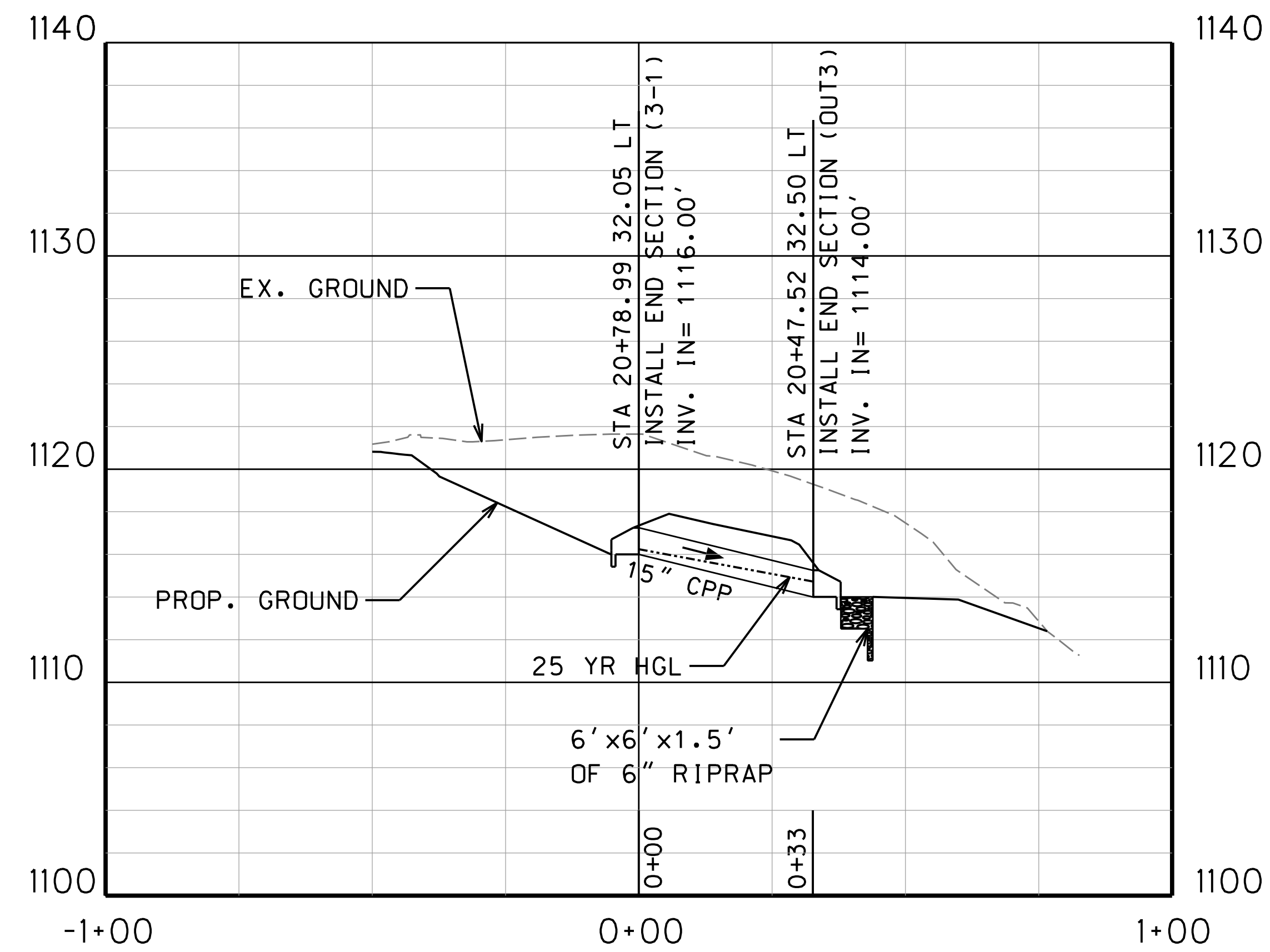
SUBMITTED 6/29/2020



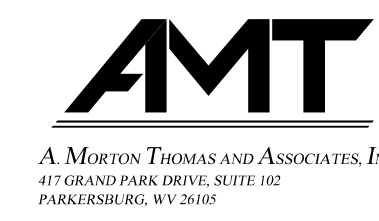
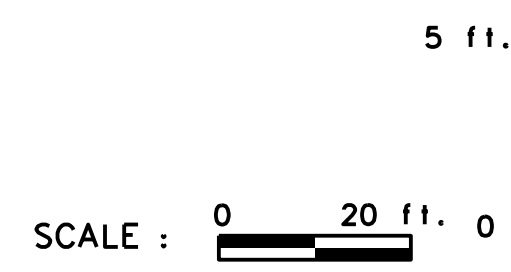
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
VAN VOORHIS DRAINAGE PROFILE
 STA. 0-00.00 to 18-50.00 (9 OF 9)

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-00.00 00	NFA-2317 (0231D)	2020	MONONGALIA	132	301



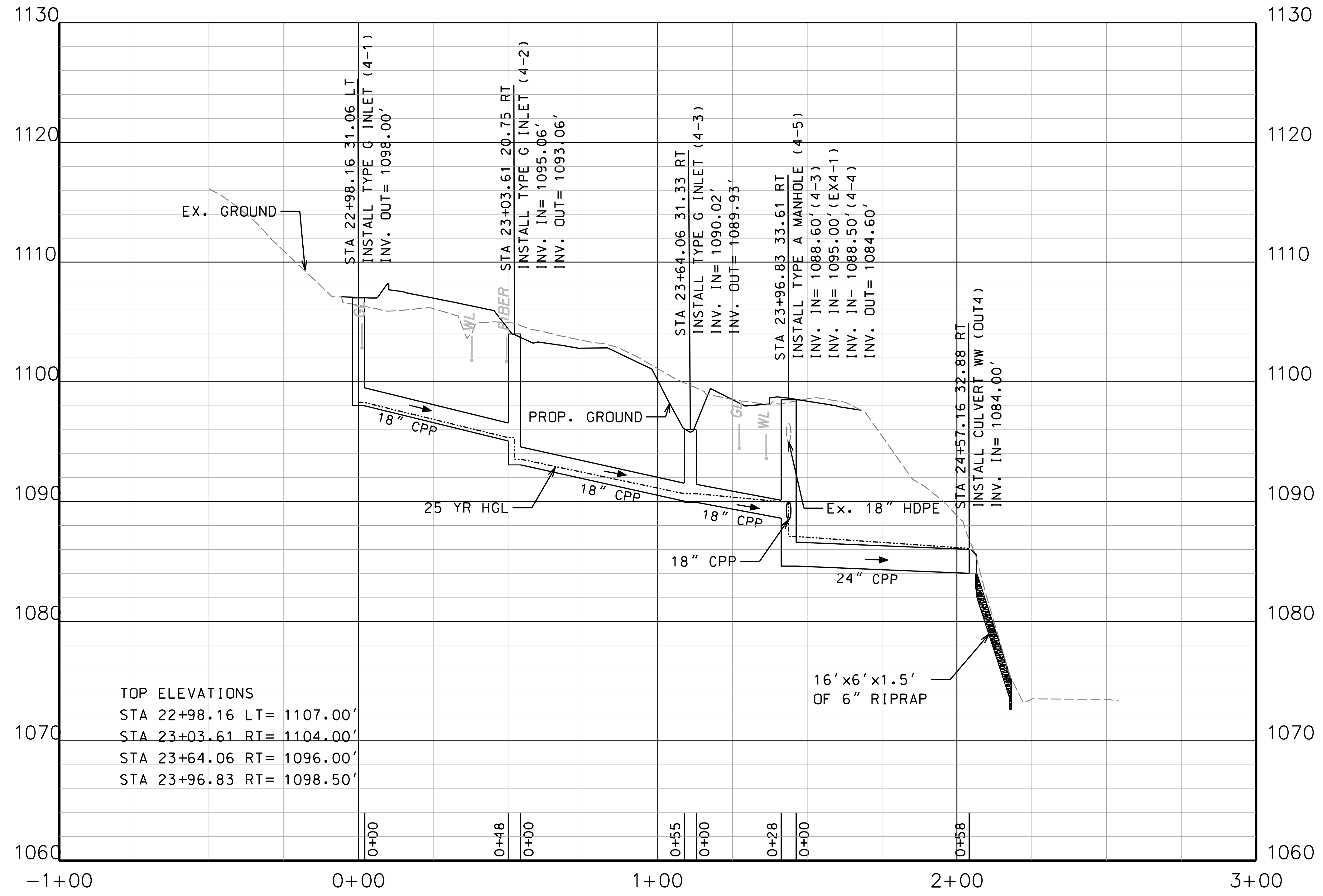
SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

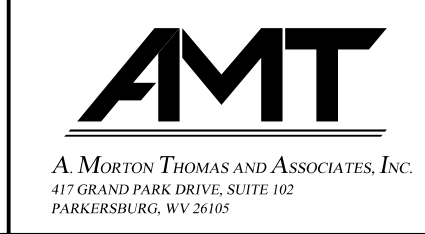
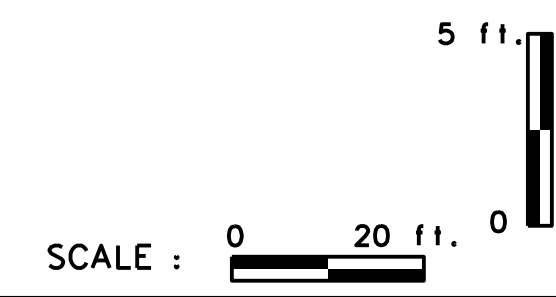
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
VAN VOORHIS DRAINAGE PROFILE
STA. 20-00.00 TO 44-00.00 (1 OF 13)

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	133	301



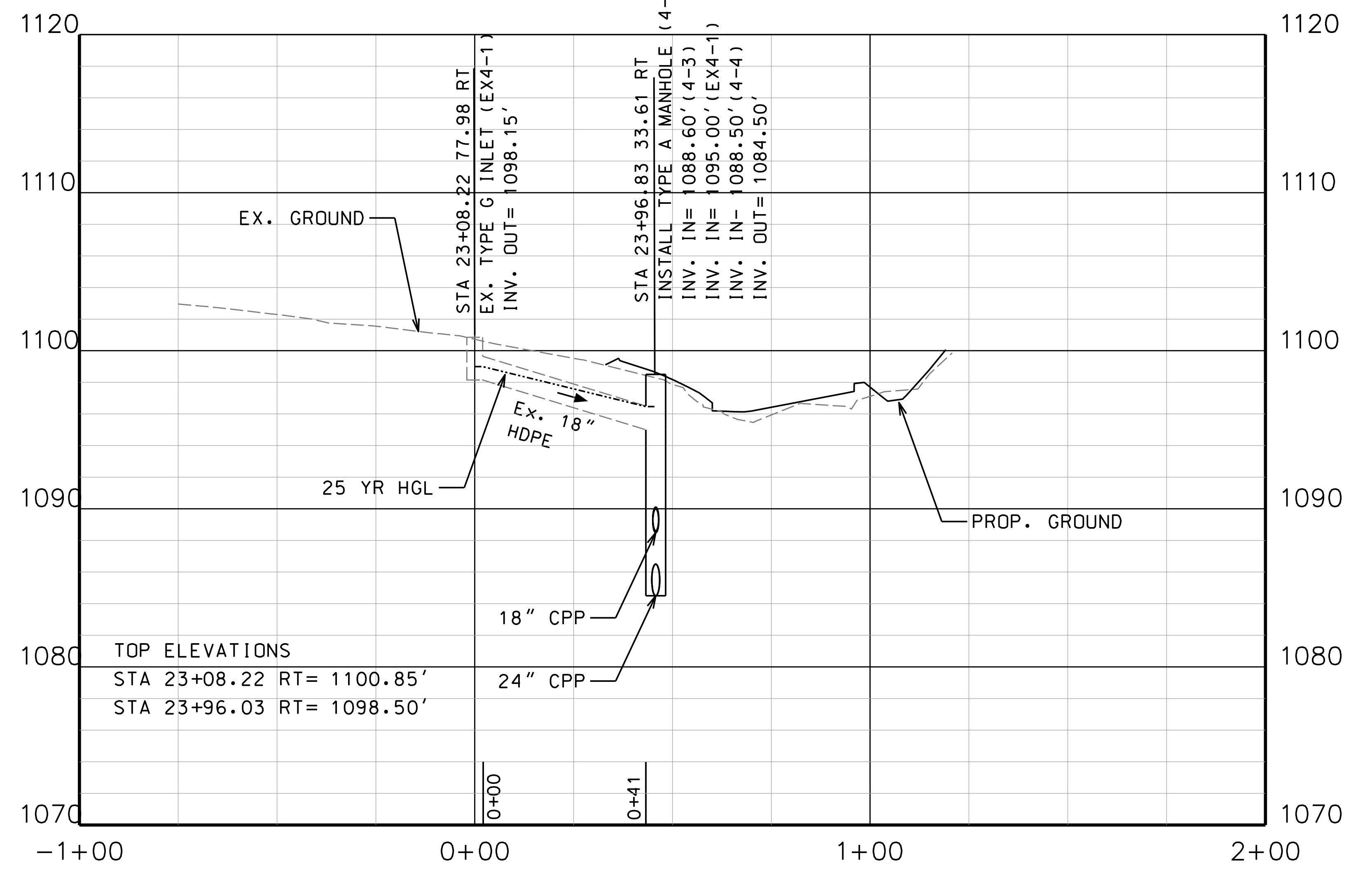
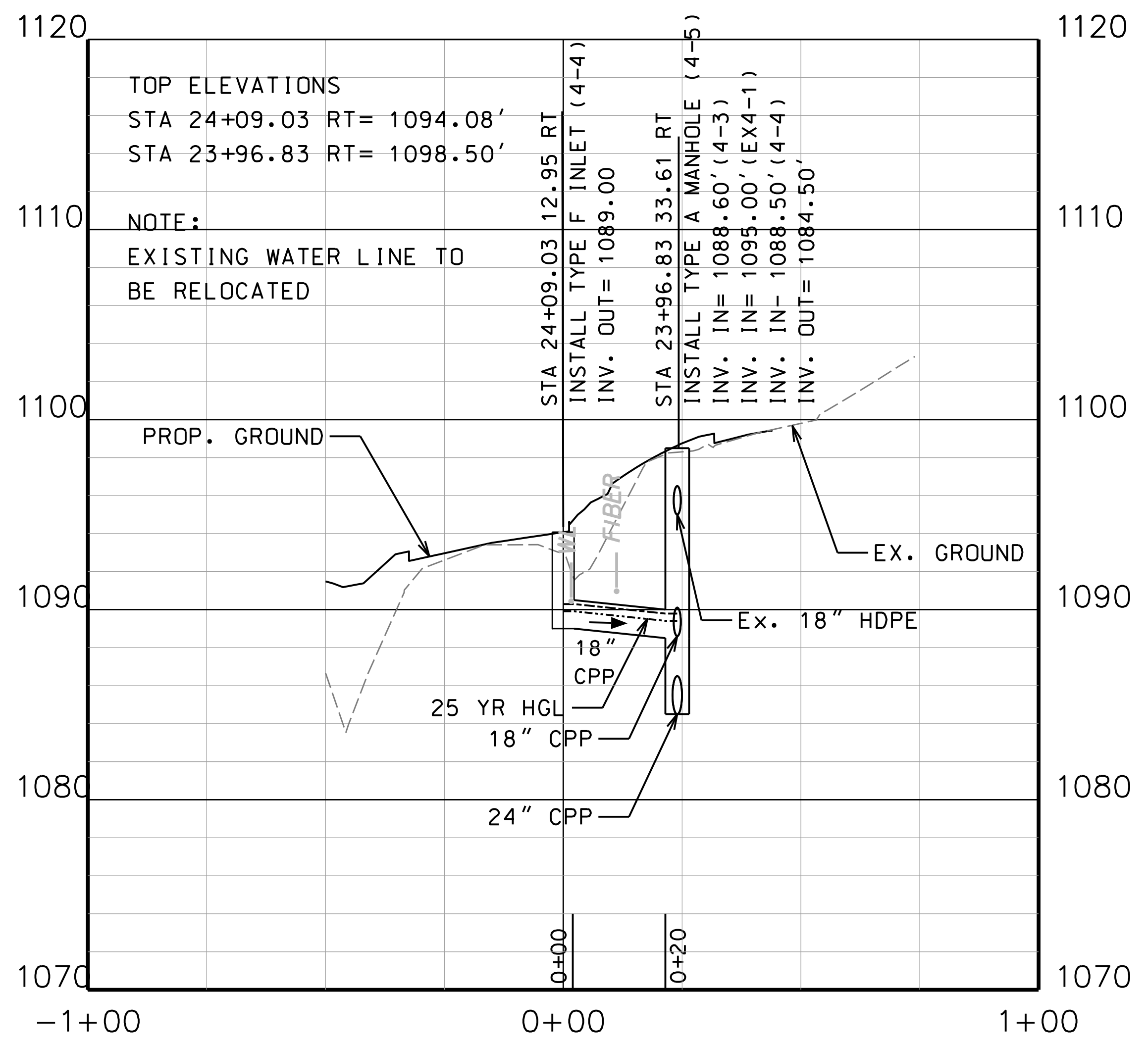
TOP ELEVATIONS
 STA 22+98.16 LT= 1107.00'
 STA 23+03.61 RT= 1104.00'
 STA 23+64.06 RT= 1096.00'
 STA 23+96.83 RT= 1098.50'

SUBMITTED 6/29/2020

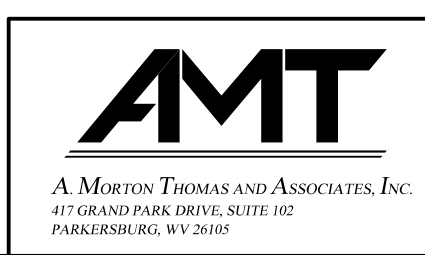
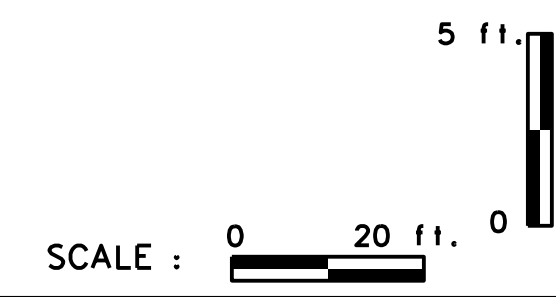


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
VAN VOORHIS DRAINAGE PROFILE
 STA. 20-00.00 TO 44-00.00 (2 OF 13)



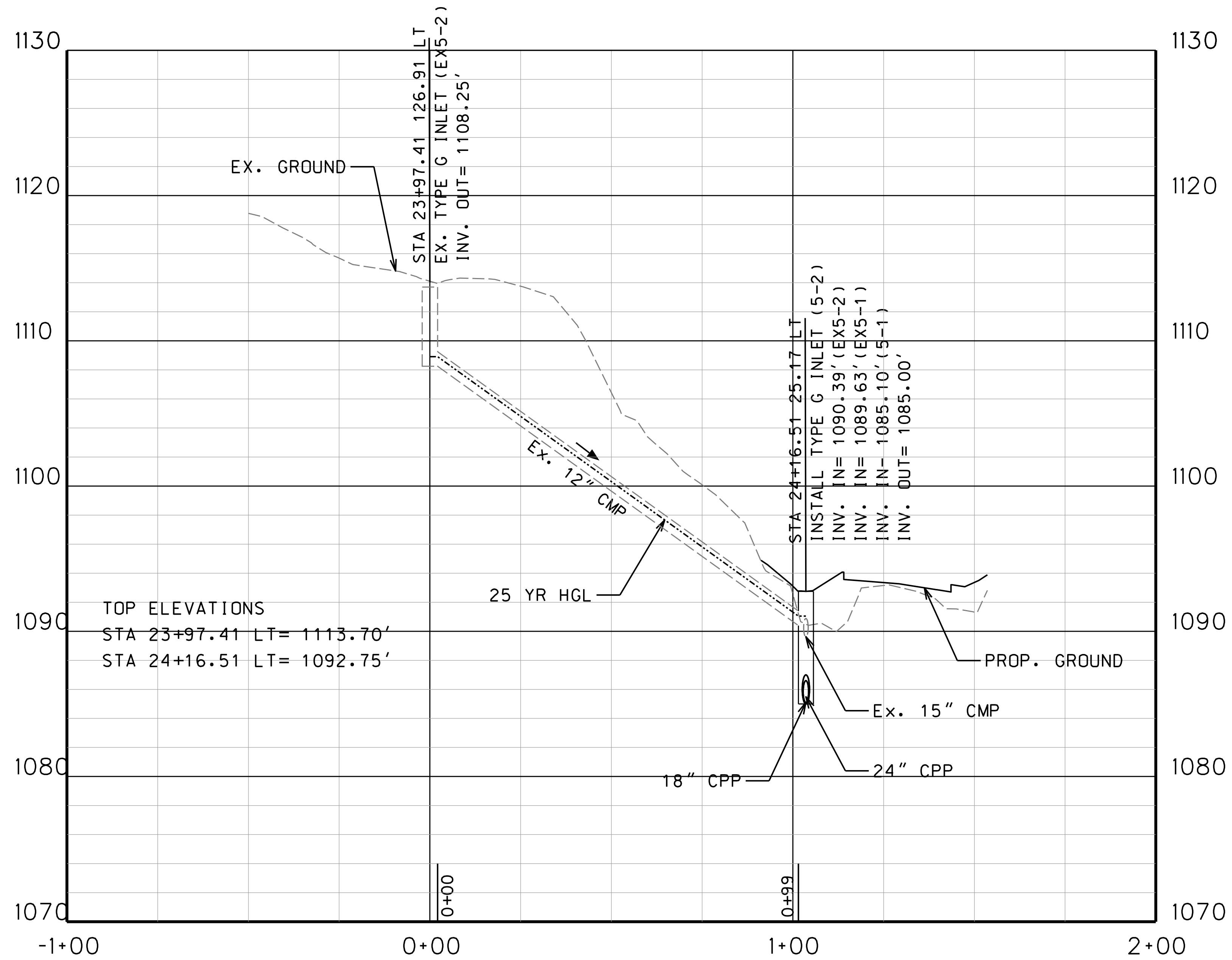
SUBMITTED 6/29/2020



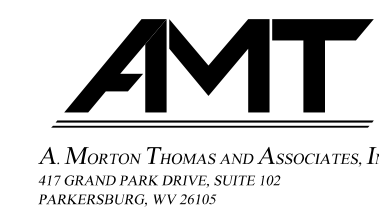
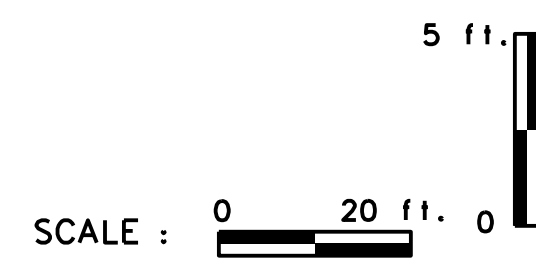
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
VAN VOORHIS DRAINAGE PROFILE
 STA. 20-00.00 TO 44-00.00 (3 OF 13)

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	135	301



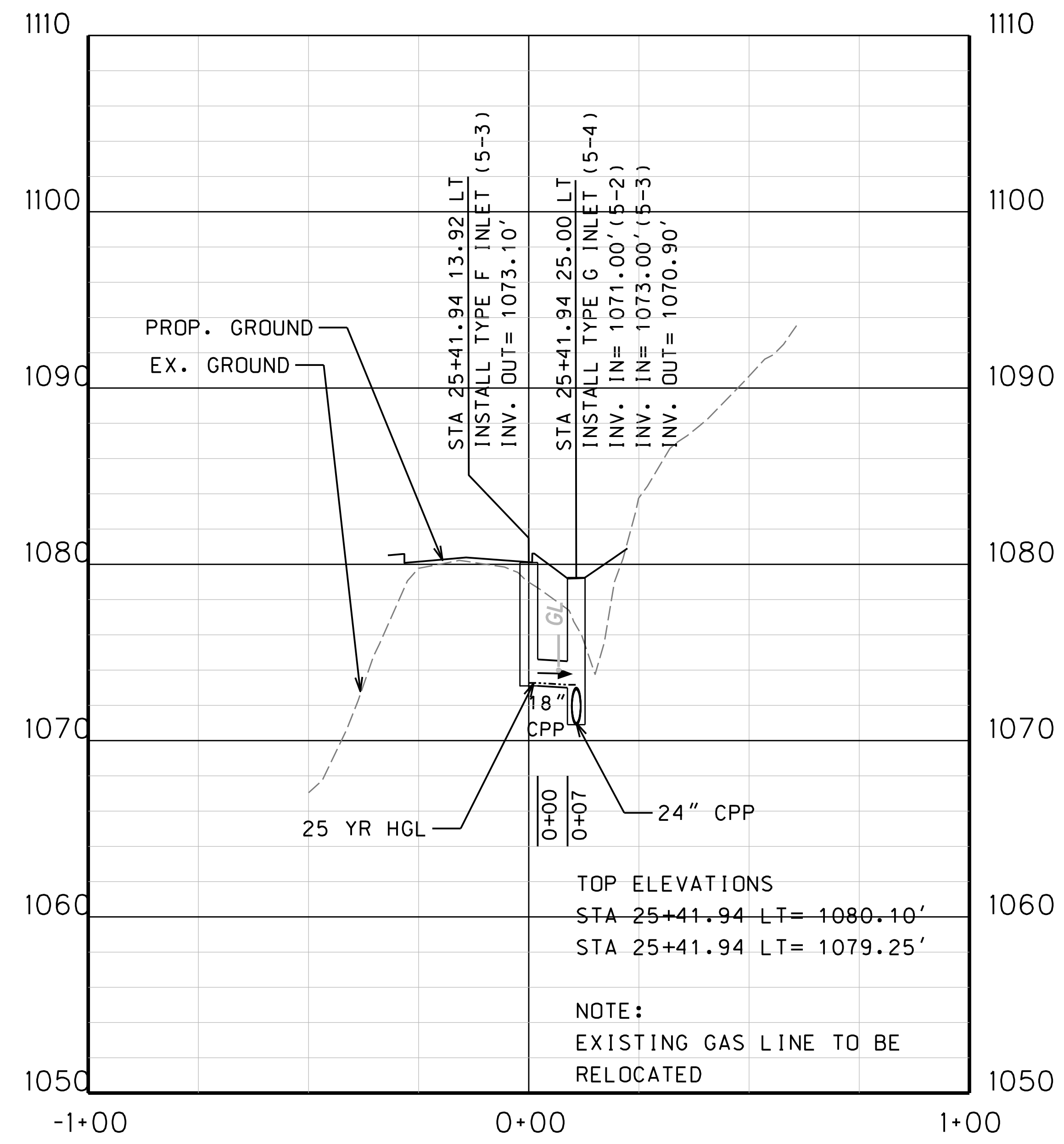
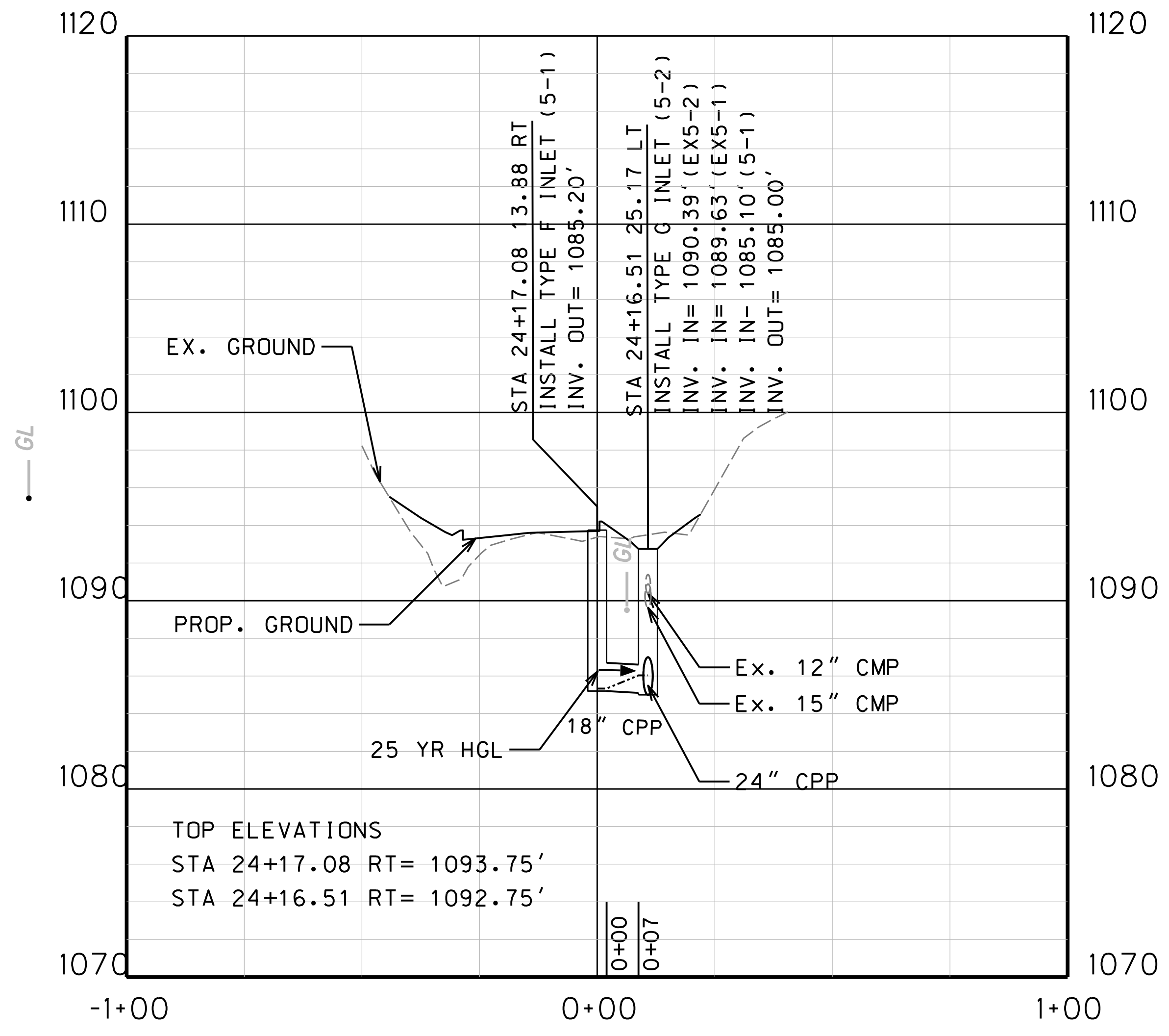
SUBMITTED 6/29/2020



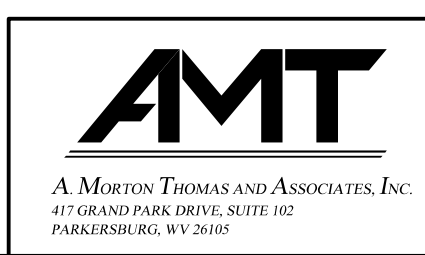
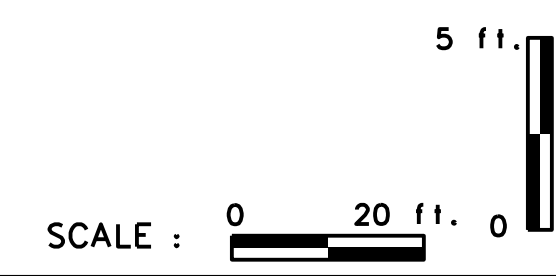
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
VAN VOORHIS DRAINAGE PROFILE
 STA. 20+00.00 TO 44+00.00 (4 OF 13)

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-00.00	NFA-2317 (0231D)	2020	MONONGALIA	136	301

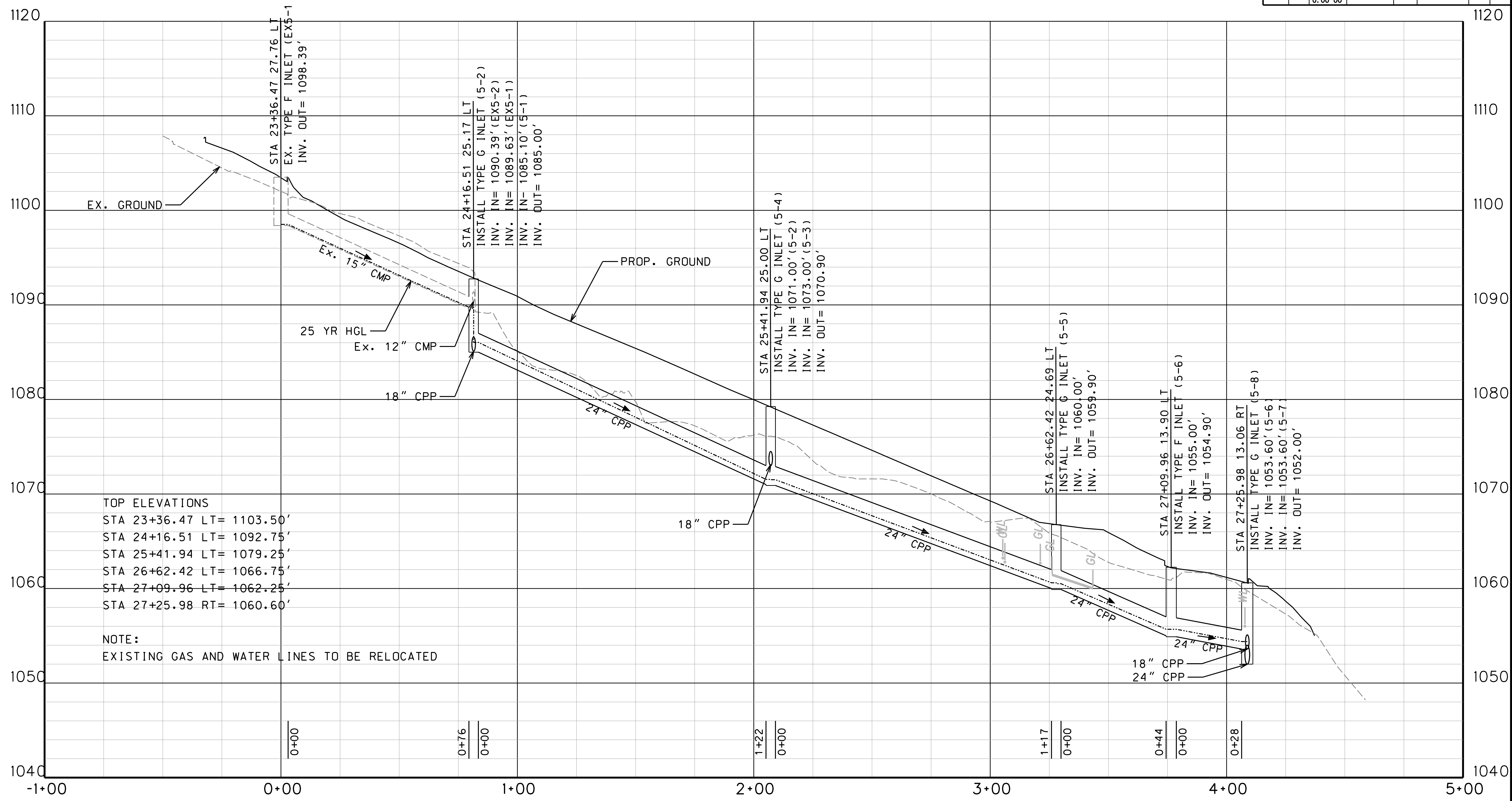


SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
VAN VOORHIS DRAINAGE PROFILE
 STA. 20+00.00 TO 44+00.00 (5 OF 13)

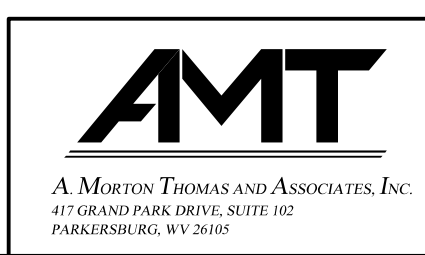
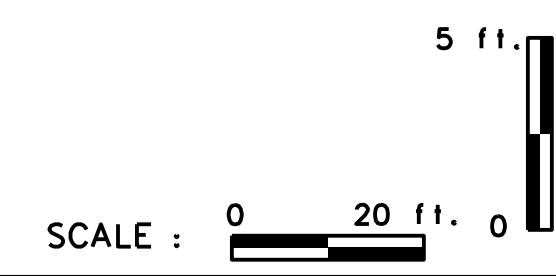


TOP ELEVATIONS

STA 23+36.47 LT	= 1103.50'
STA 24+16.51 LT	= 1092.75'
STA 25+41.94 LT	= 1079.25'
STA 26+62.42 LT	= 1066.75'
STA 27+09.96 LT	= 1062.25'
STA 27+25.98 RT	= 1060.60'

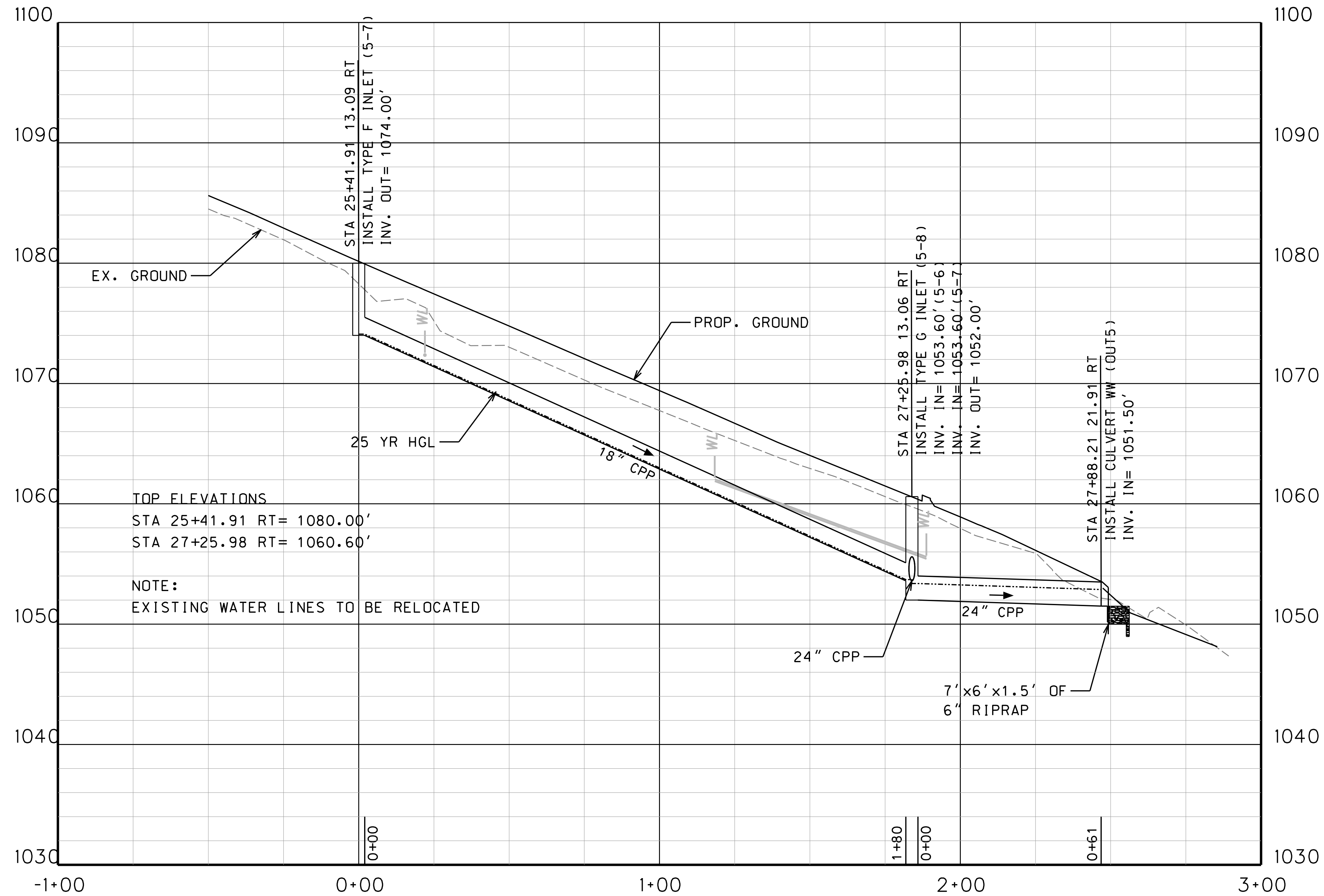
NOTE:
EXISTING GAS AND WATER LINES TO BE RELOCATED

SUBMITTED 6/29/2020

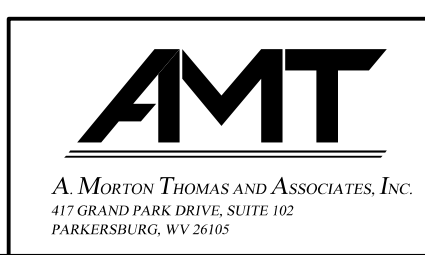
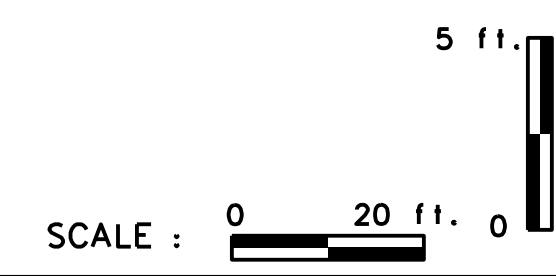


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
VAN VOORHIS DRAINAGE PROFILE
STA. 20+00.00 TO 44+00.00 (6 OF 13)



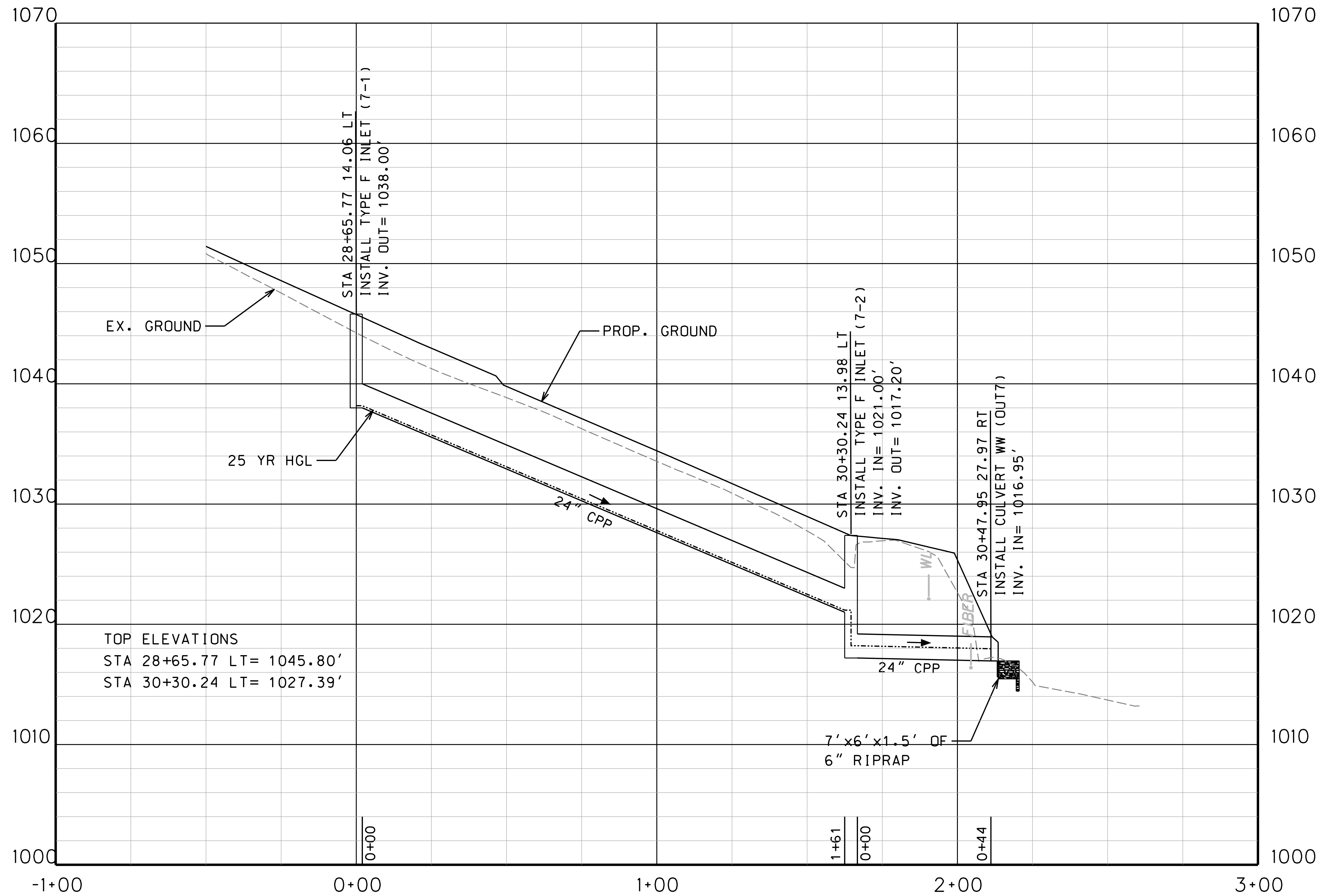
SUBMITTED 6/29/2020



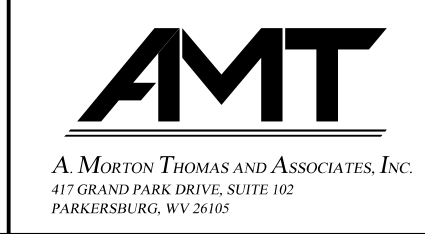
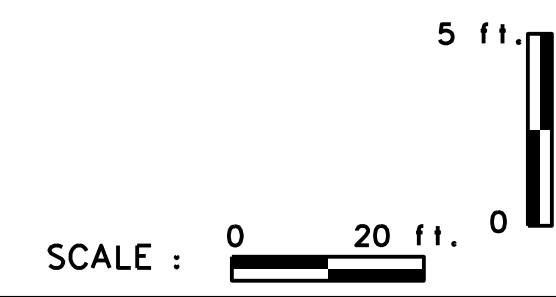
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
VAN VOORHIS DRAINAGE PROFILE
 STA. 20+00.00 TO 44+00.00 (7 OF 13)

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	139	301

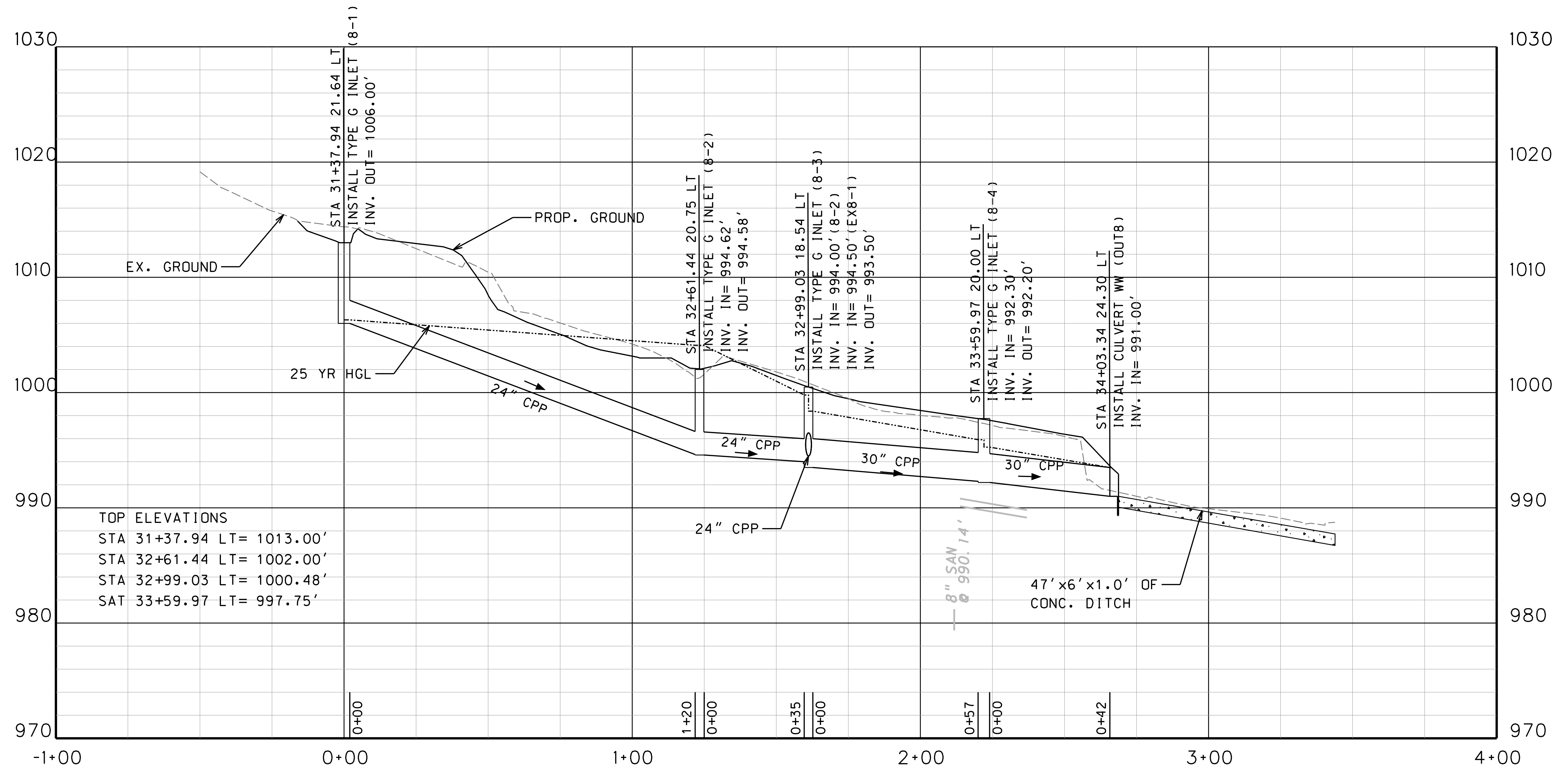


SUBMITTED 6/29/2020

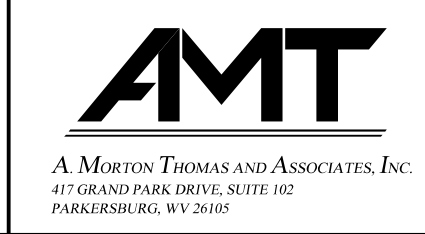
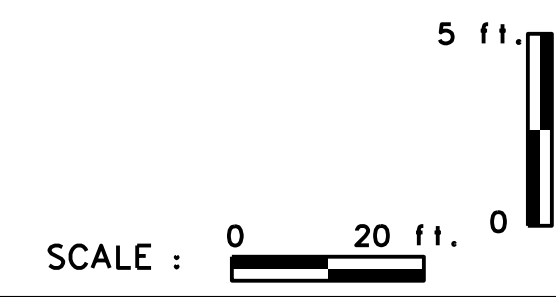


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
VAN VOORHIS DRAINAGE PROFILE
 STA. 20-00.00 TO 44-00.00 (8 OF 13)



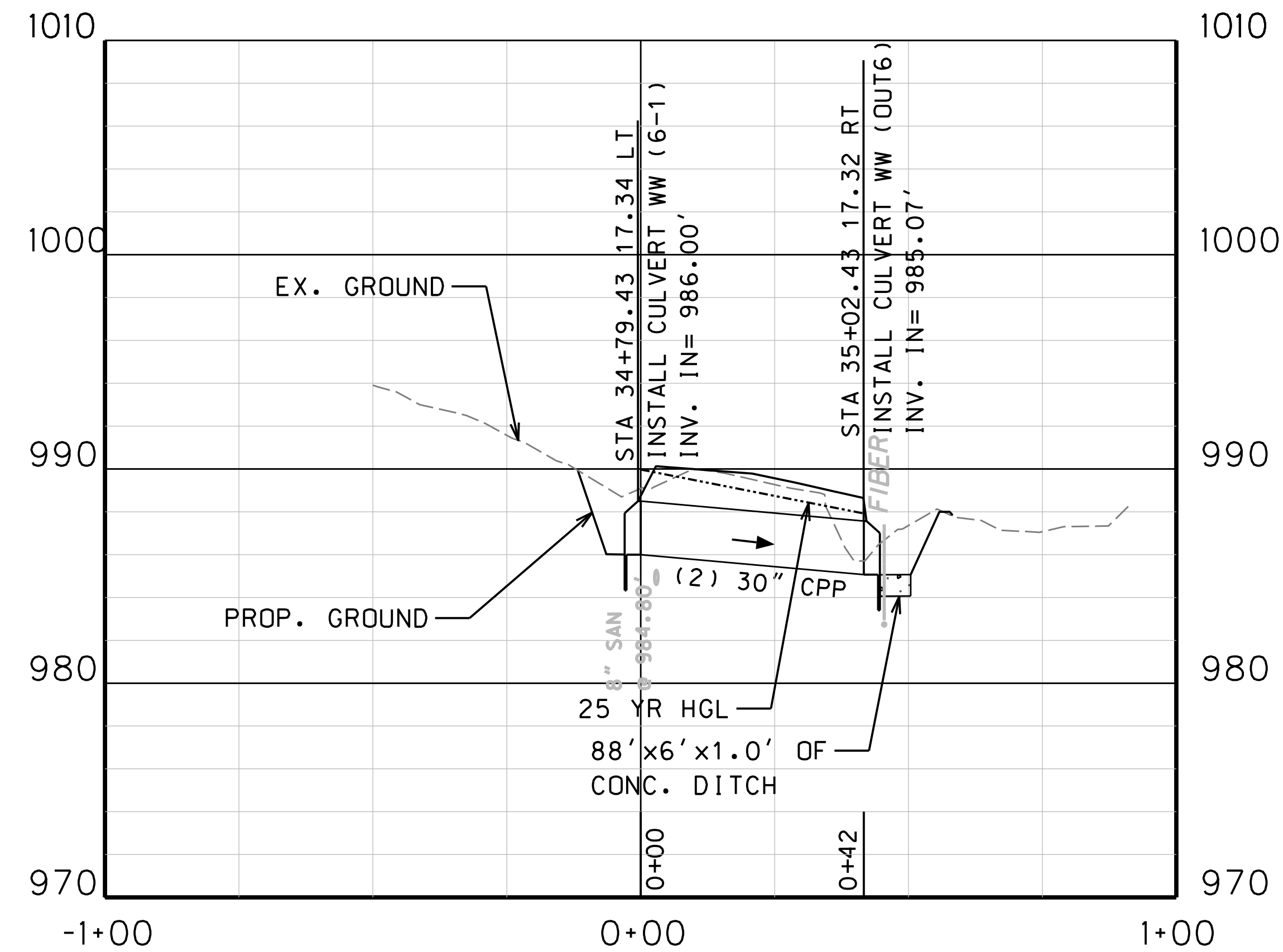
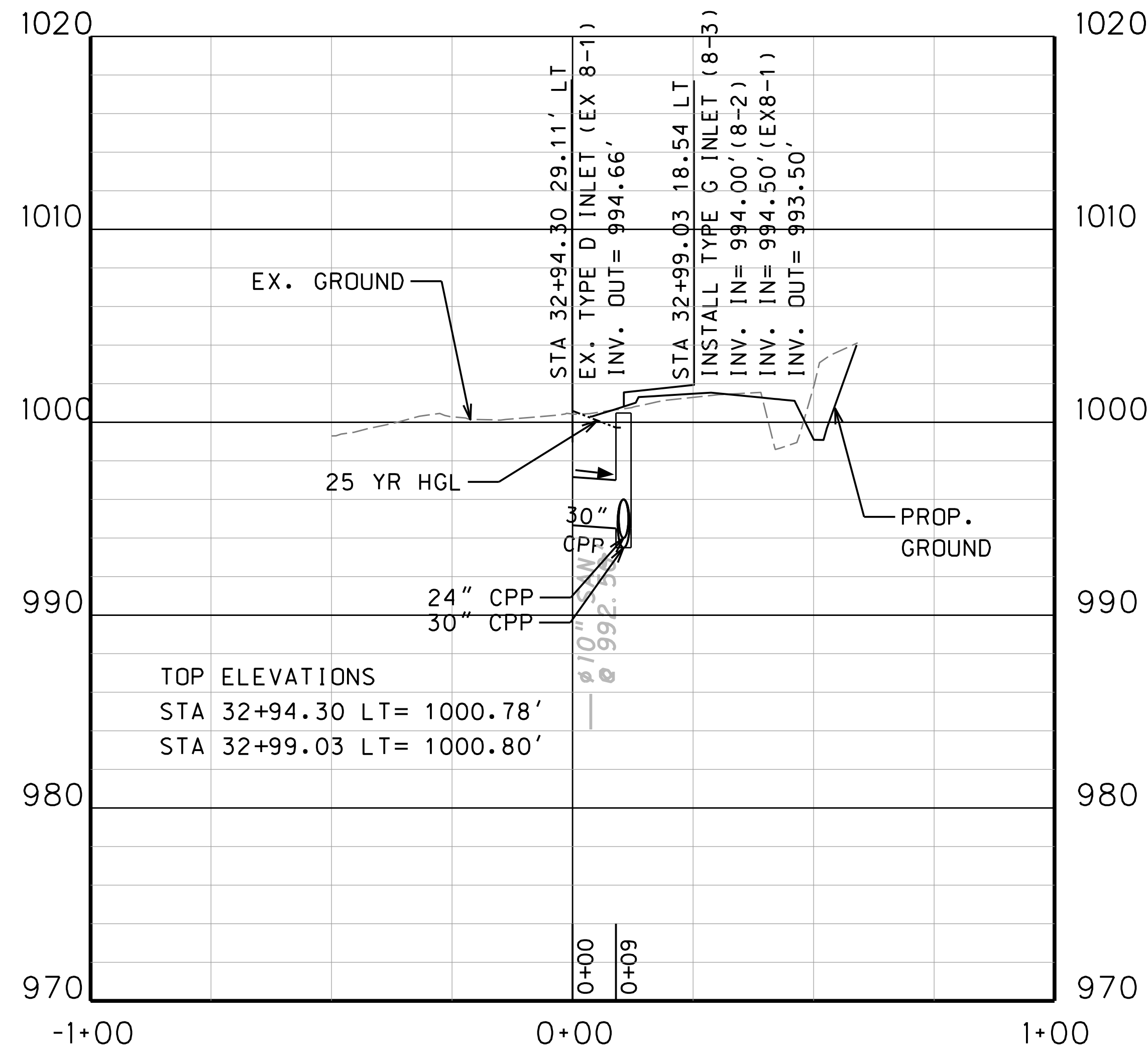
SUBMITTED 6/29/2020



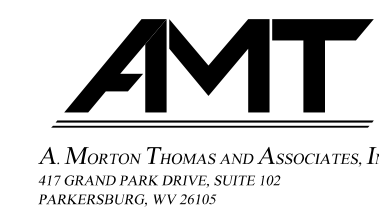
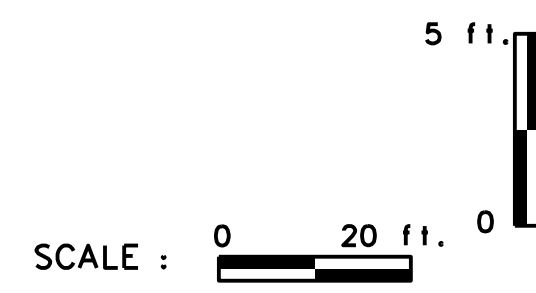
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
VAN VOORHIS DRAINAGE PROFILE
 STA. 20-00.00 TO 44-00.00 (9 OF 13)

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	141	301



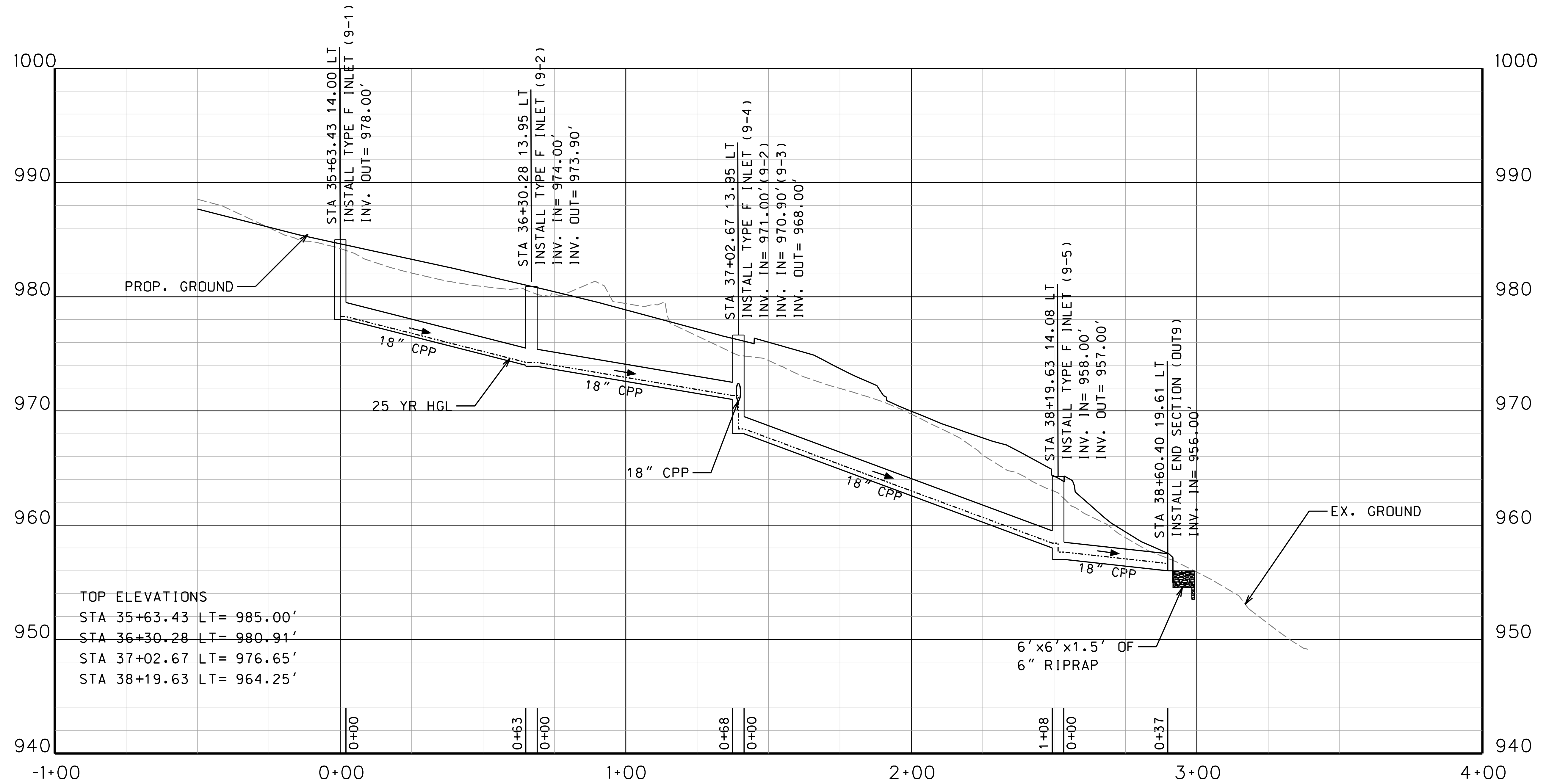
SUBMITTED 6/29/2020



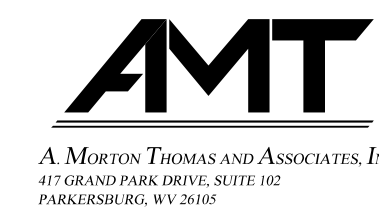
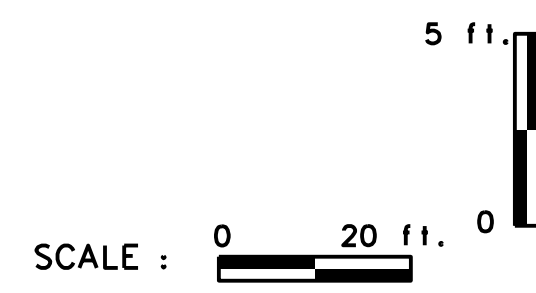
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
VAN VOORHIS DRAINAGE PROFILE
 STA. 20-00.00 TO 44-00.00 (10 OF 13)

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	142	301



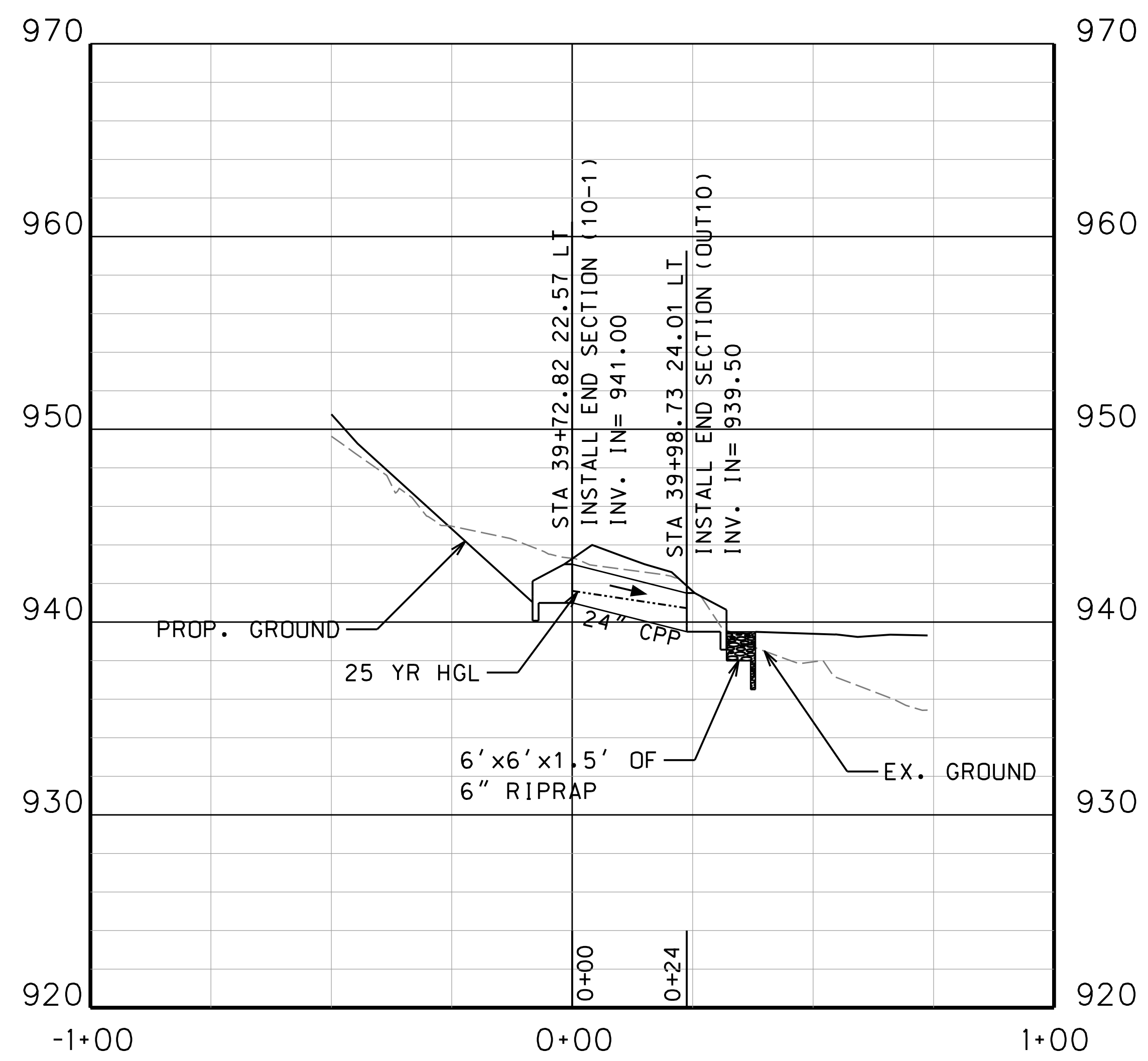
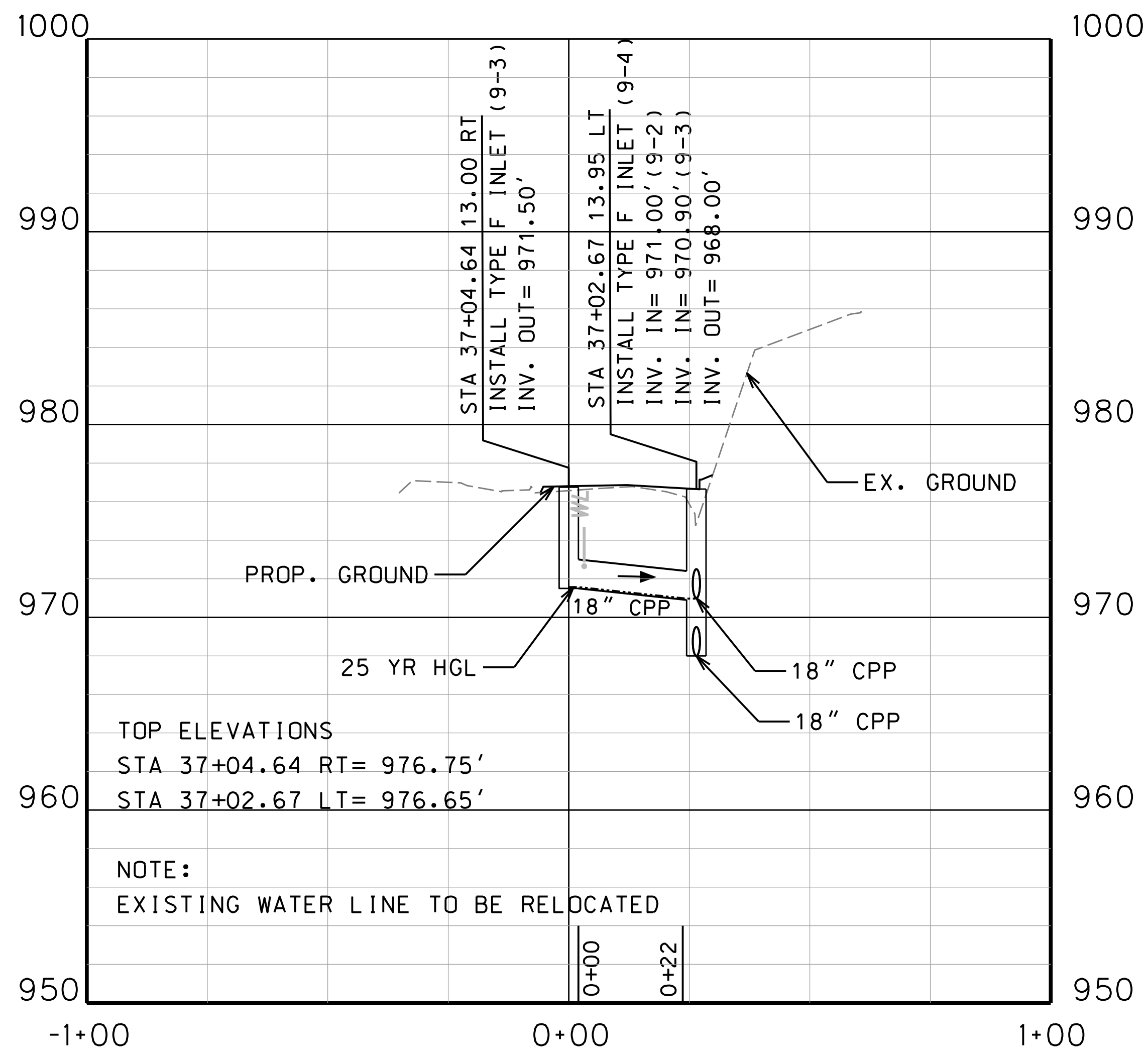
SUBMITTED 6/29/2020



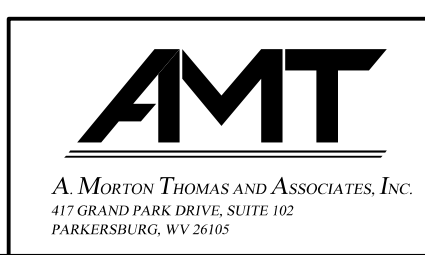
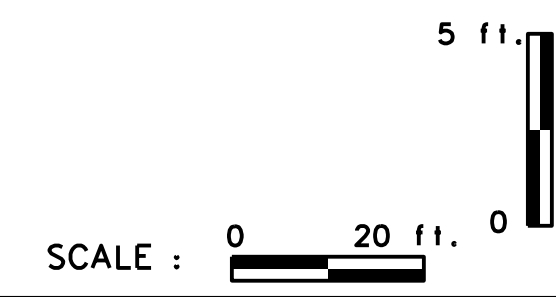
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
VAN VOORHIS DRAINAGE PROFILE
 STA. 20+00.00 TO 44+00.00 (11 OF 13)

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00-00	NFA-2317 (0231D)	2020	MONONGALIA	143	301



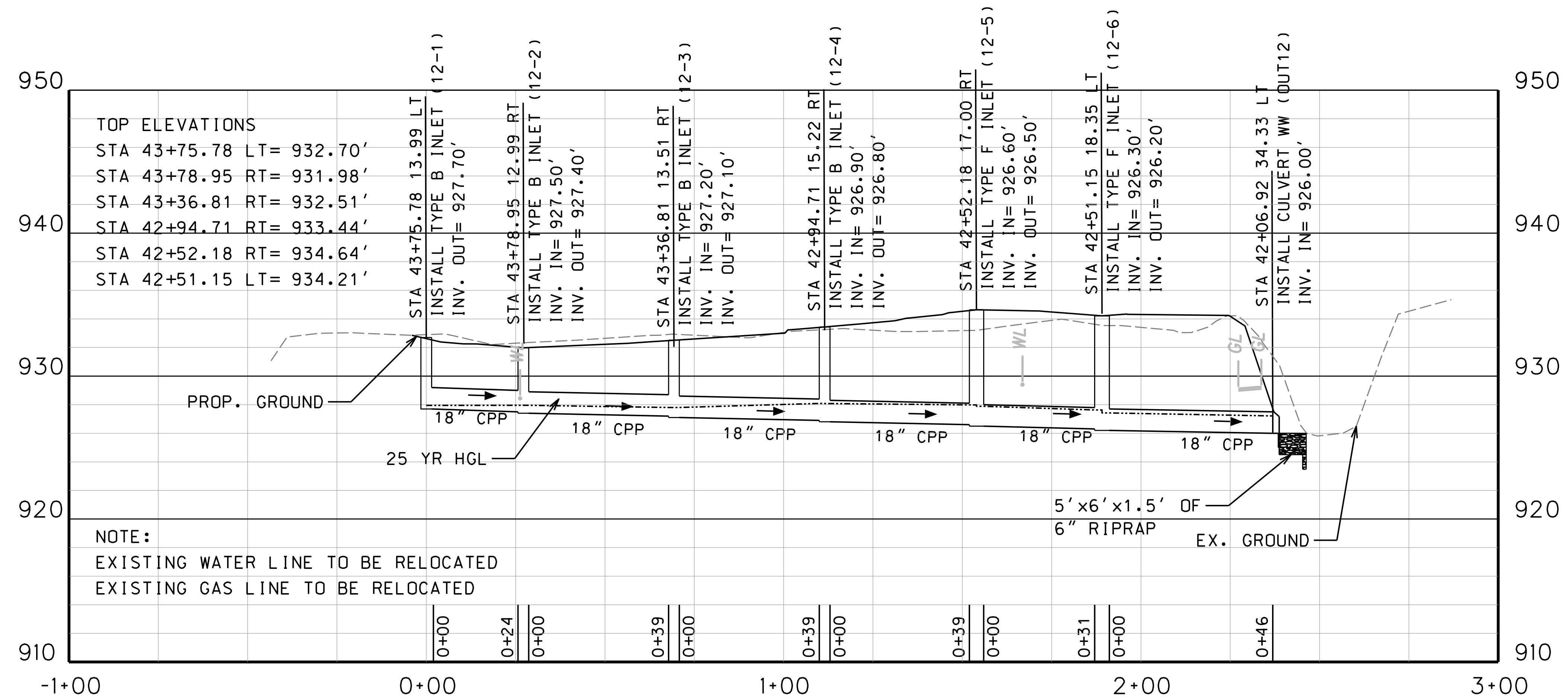
SUBMITTED 6/29/2020



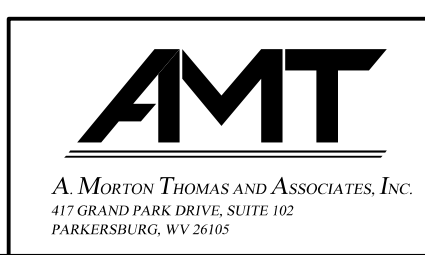
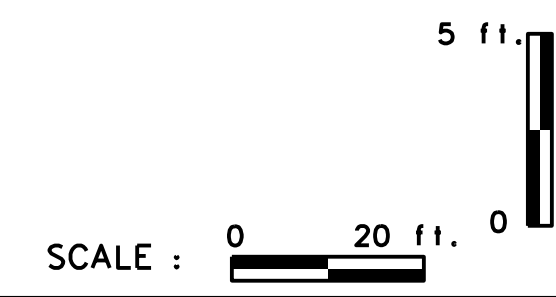
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
VAN VOORHIS DRAINAGE PROFILE
 STA. 20-00.00 TO 44-00.00 (12 OF 13)

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-00.00	NFA-2317 (0231D)	2020	MONONGALIA	144	301



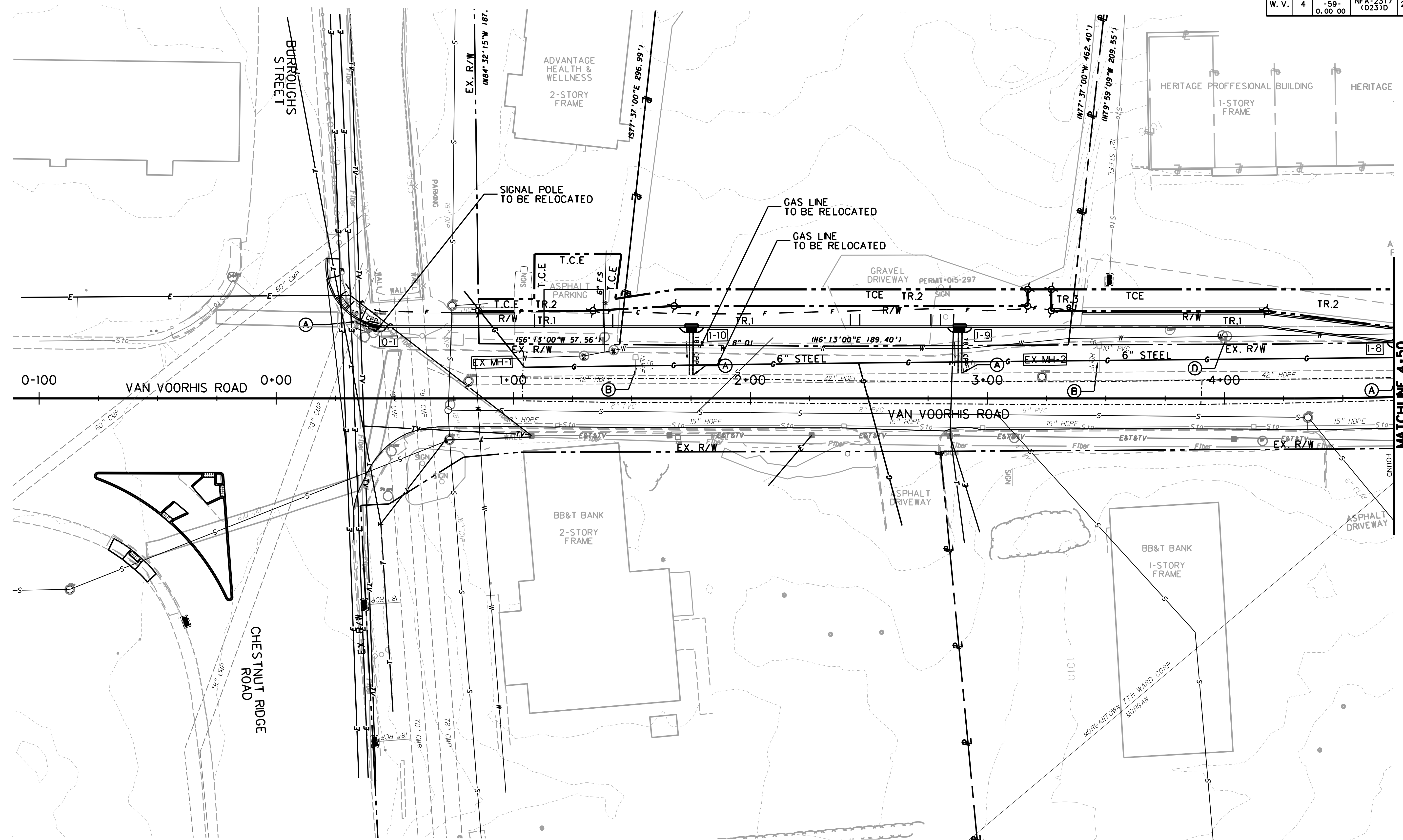
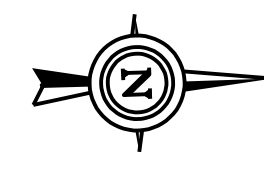
SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
VAN VOORHIS DRAINAGE PROFILE
STA. 20-00.00 TO 44-00.00 (13 OF 13)

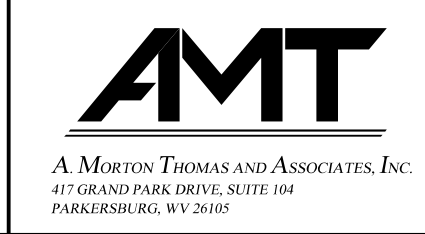
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	145	301



LEGEND

(A)	FIELD CONNECTION TO EXISTING DRAINAGE
(B)	ABANDON EXISTING DRAINAGE
(C)	REMOVE EXISTING DRAINAGE
(D)	ADJUST MANHOLE TYPE A
[2-1]	PROPOSED DRAINAGE STRUCTURE

SCALE : 0 20 ft.

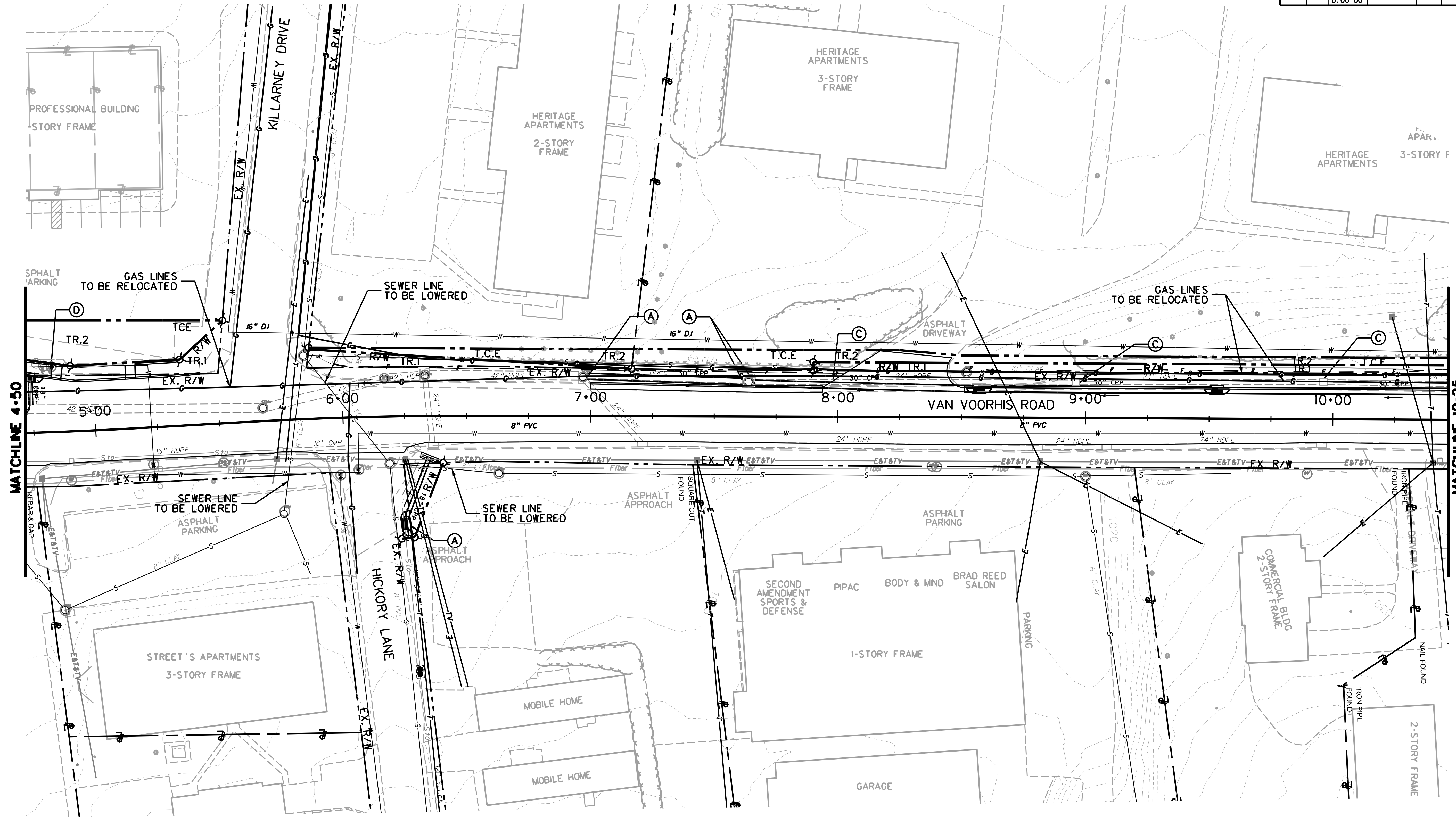
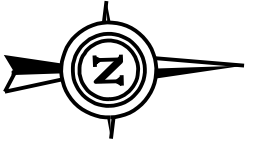


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
UTILITY RELOCATION PLAN

SUBMITTED 6/29/2020

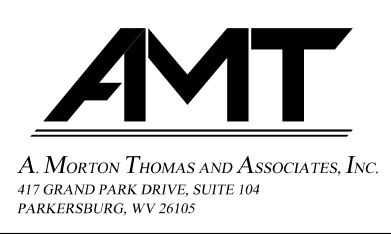
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-00.00	NFA-2317 (0231D)	2020	MONONGALIA	146	301



LEGEND

(A)	FIELD CONNECTION TO EXISTING DRAINAGE
(B)	ABANDON EXISTING DRAINAGE
(C)	REMOVE EXISTING DRAINAGE
(D)	ADJUST MANHOLE TYPE A
[Z-1]	PROPOSED DRAINAGE STRUCTURE

SCALE : 0 20 ft.

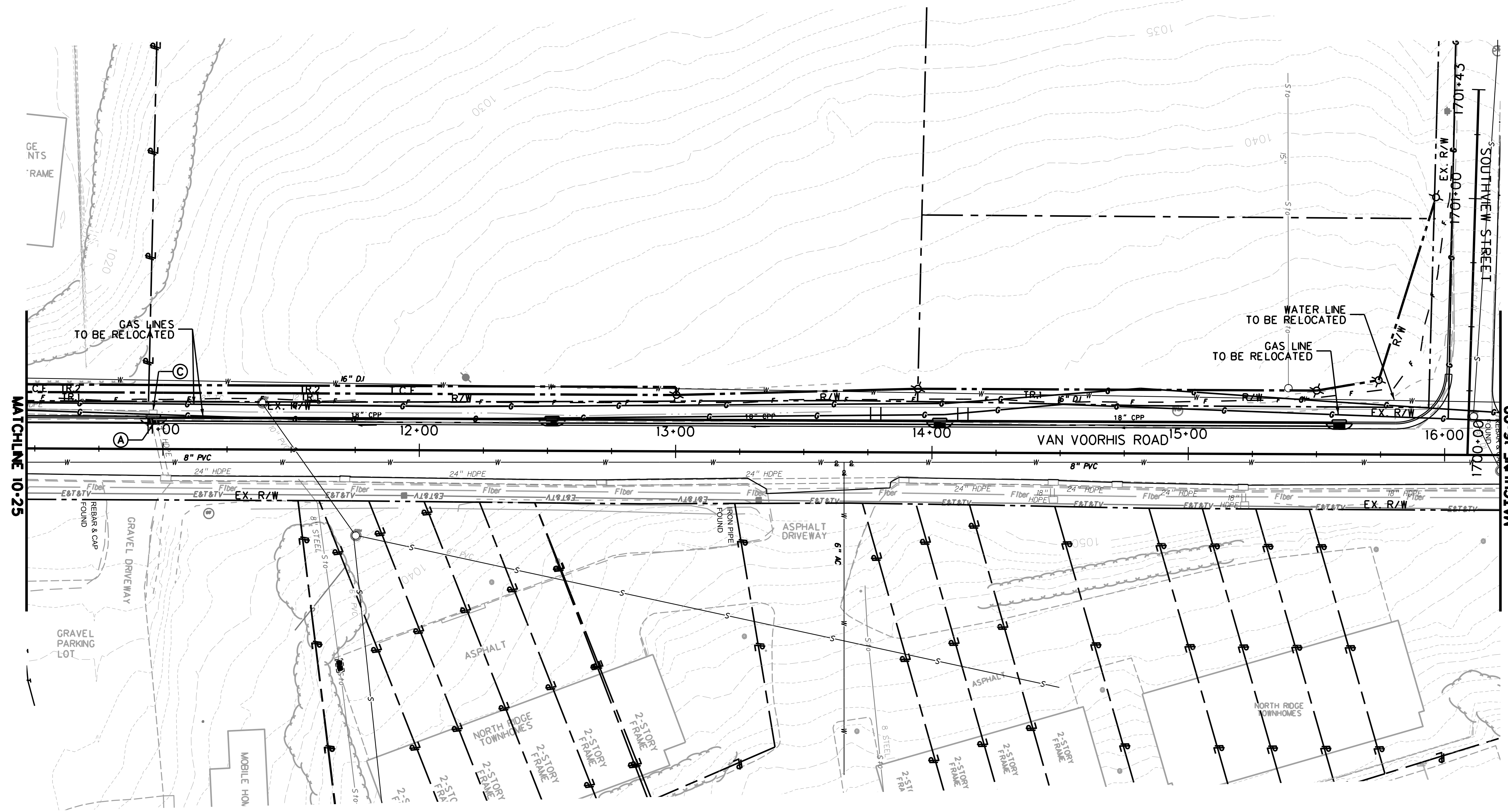


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
UTILITY RELOCATION PLAN

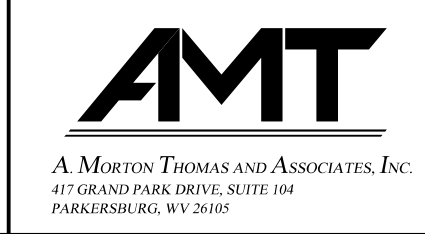
SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	147	301



LEGEND	
(A)	FIELD CONNECTION TO EXISTING DRAINAGE
(B)	ABANDON EXISTING DRAINAGE
(C)	REMOVE EXISTING DRAINAGE
(D)	ADJUST MANHOLE TYPE A
(2-1)	PROPOSED DRAINAGE STRUCTURE

SCALE : 0 20 ft.

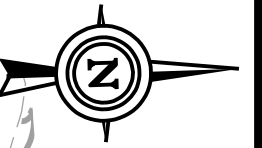
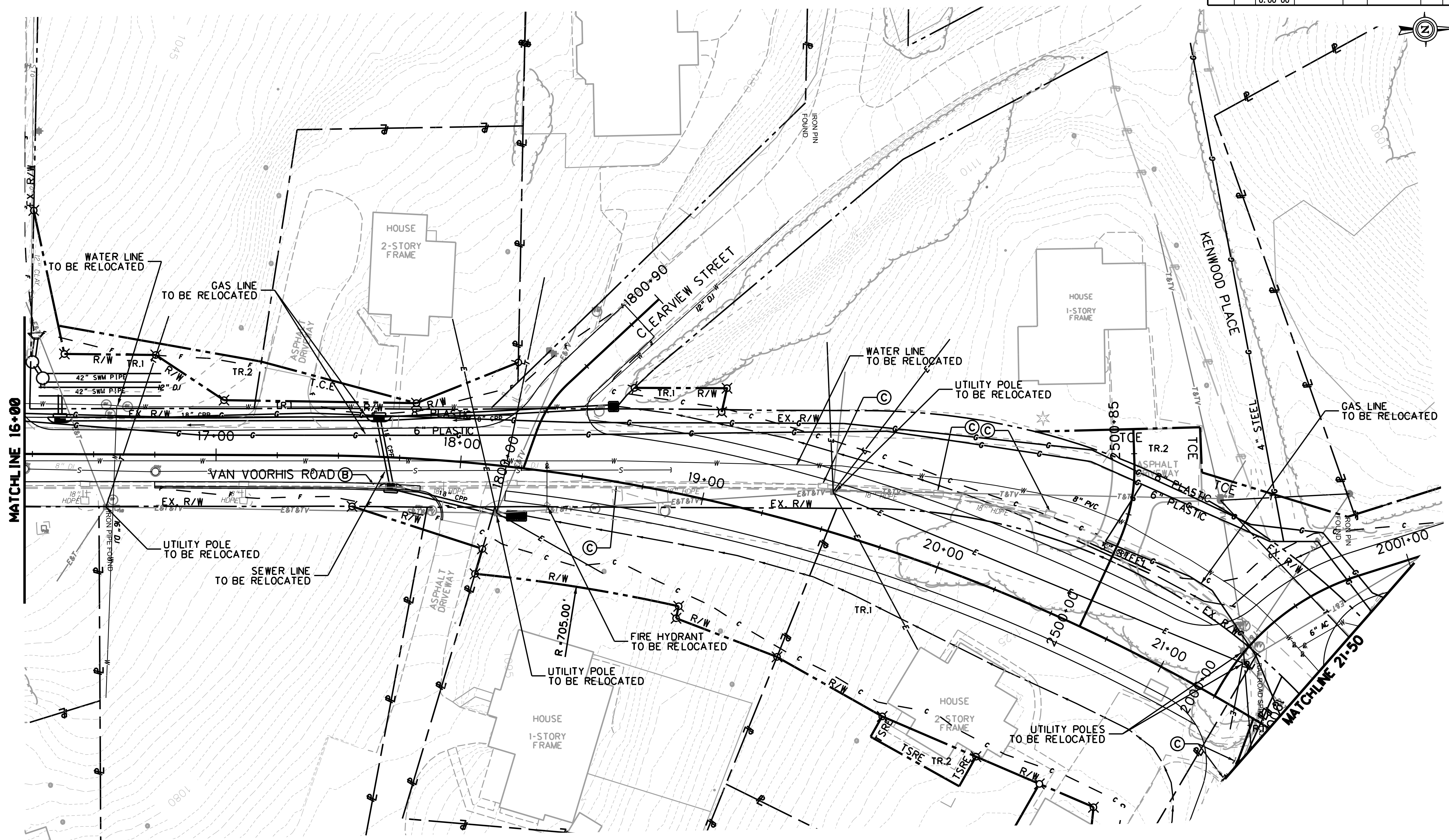


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
UTILITY RELOCATION PLAN

SUBMITTED 6/29/2020

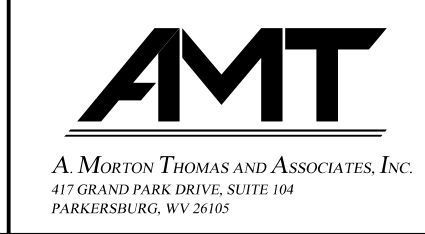
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	148	301



LEGEND

(A)	FIELD CONNECTION TO EXISTING DRAINAGE
(B)	ABANDON EXISTING DRAINAGE
(C)	REMOVE EXISTING DRAINAGE
(D)	ADJUST MANHOLE TYPE A
(2-1)	PROPOSED DRAINAGE STRUCTURE

SCALE : 0 20 ft.

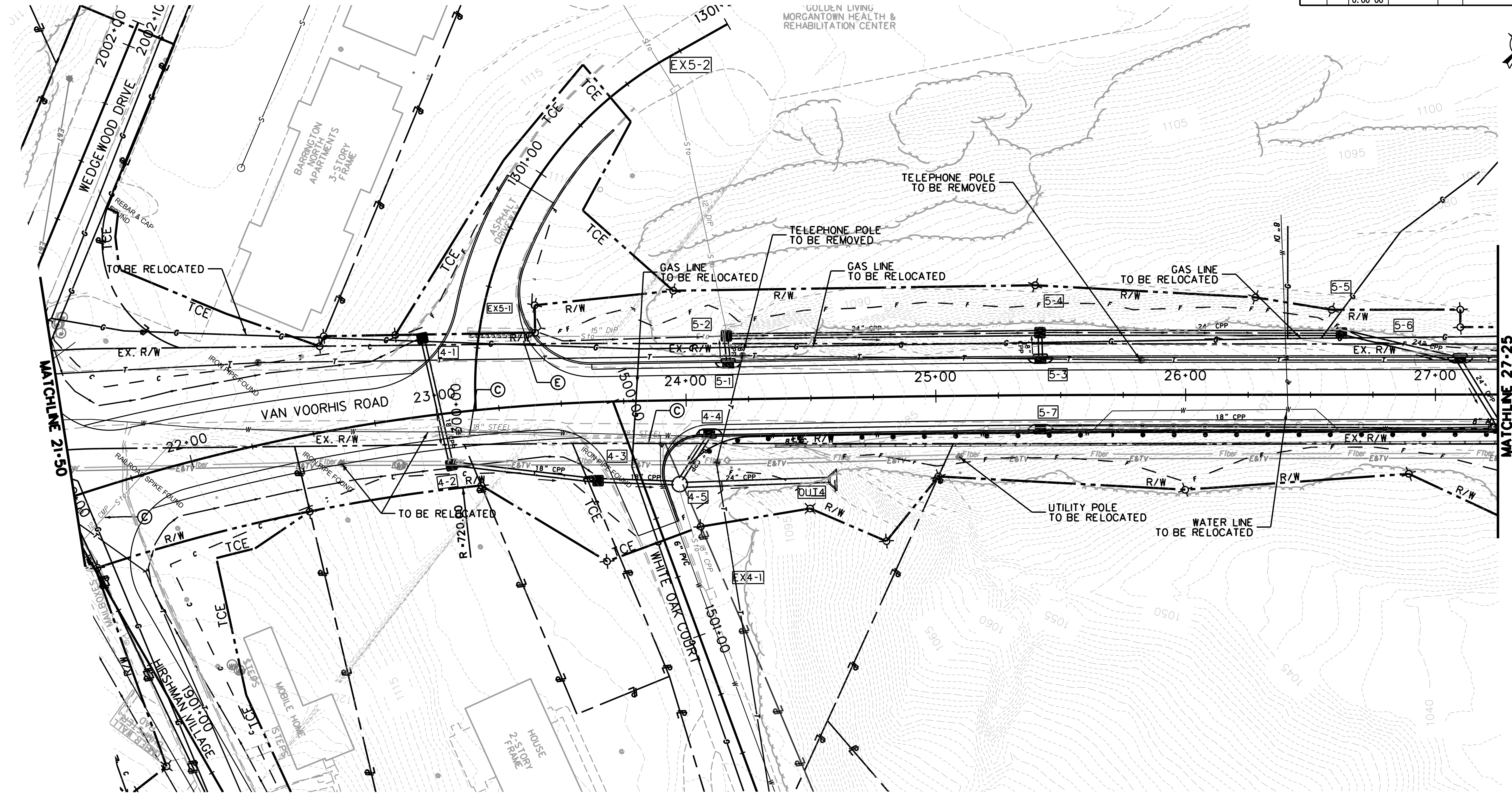
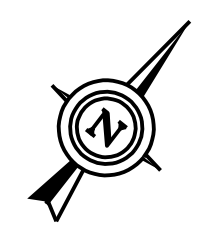


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
UTILITY RELOCATION PLAN

SUBMITTED 6/29/2020

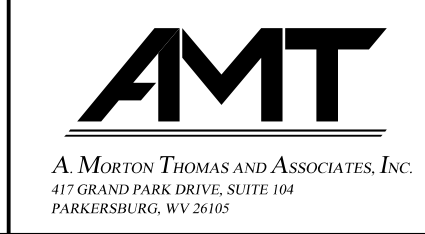
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	149	301



LEGEND

(A)	FIELD CONNECTION TO EXISTING DRAINAGE
(B)	ABANDON EXISTING DRAINAGE
(C)	REMOVE EXISTING DRAINAGE
(D)	ADJUST MANHOLE TYPE A
[2-1]	PROPOSED DRAINAGE STRUCTURE

SCALE : 0 20 40 ft.

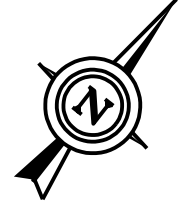
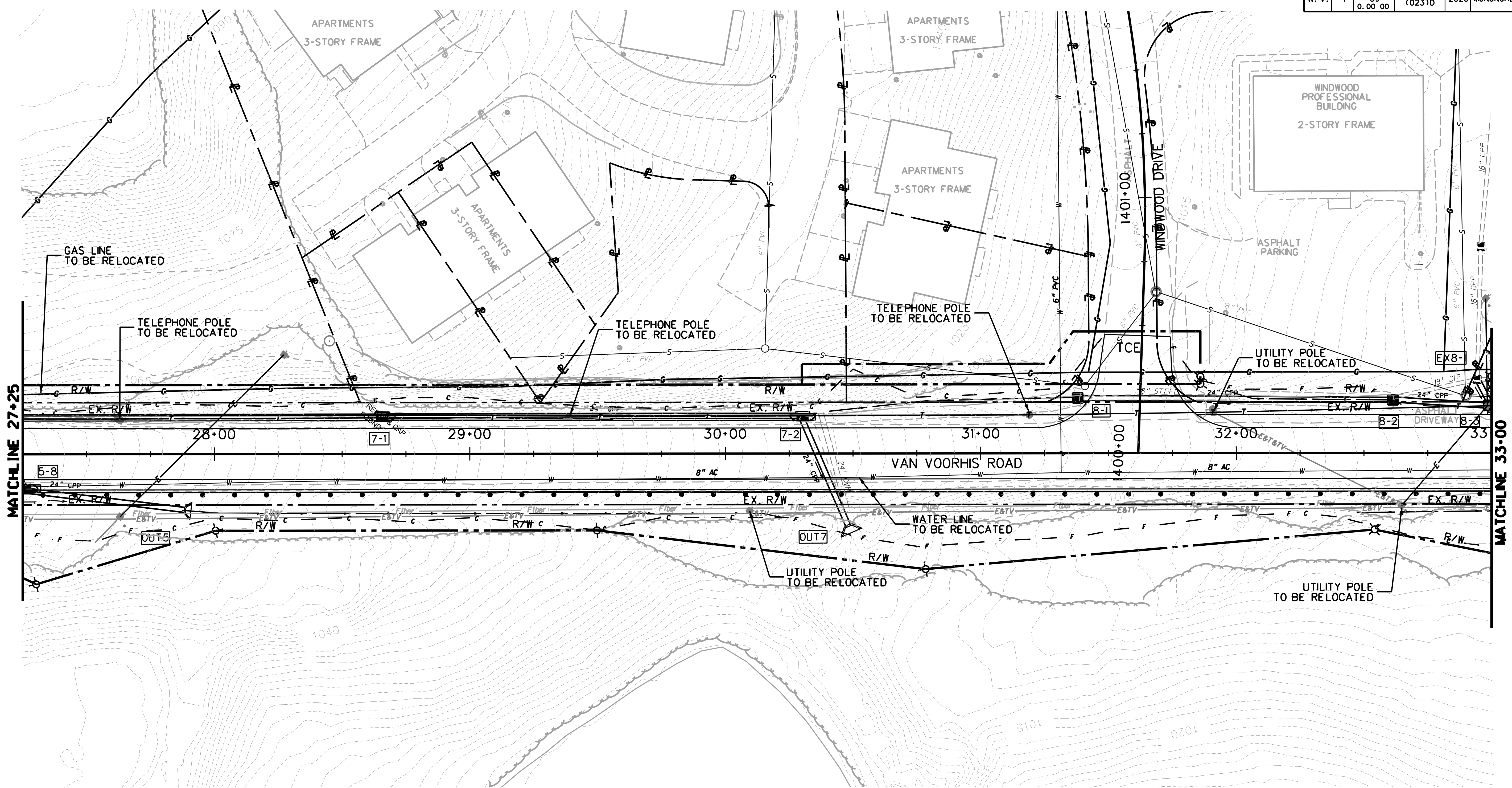


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
UTILITY RELOCATION PLAN

SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	150	301



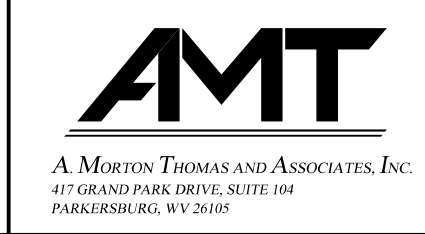
MATCHLINE 27+25

MATCHLINE 33+00

LEGEND

(A)	FIELD CONNECTION TO EXISTING DRAINAGE
(B)	ABANDON EXISTING DRAINAGE
(C)	REMOVE EXISTING DRAINAGE
(D)	ADJUST MANHOLE TYPE A
[2-1]	PROPOSED DRAINAGE STRUCTURE

SCALE : 0 20 ft.

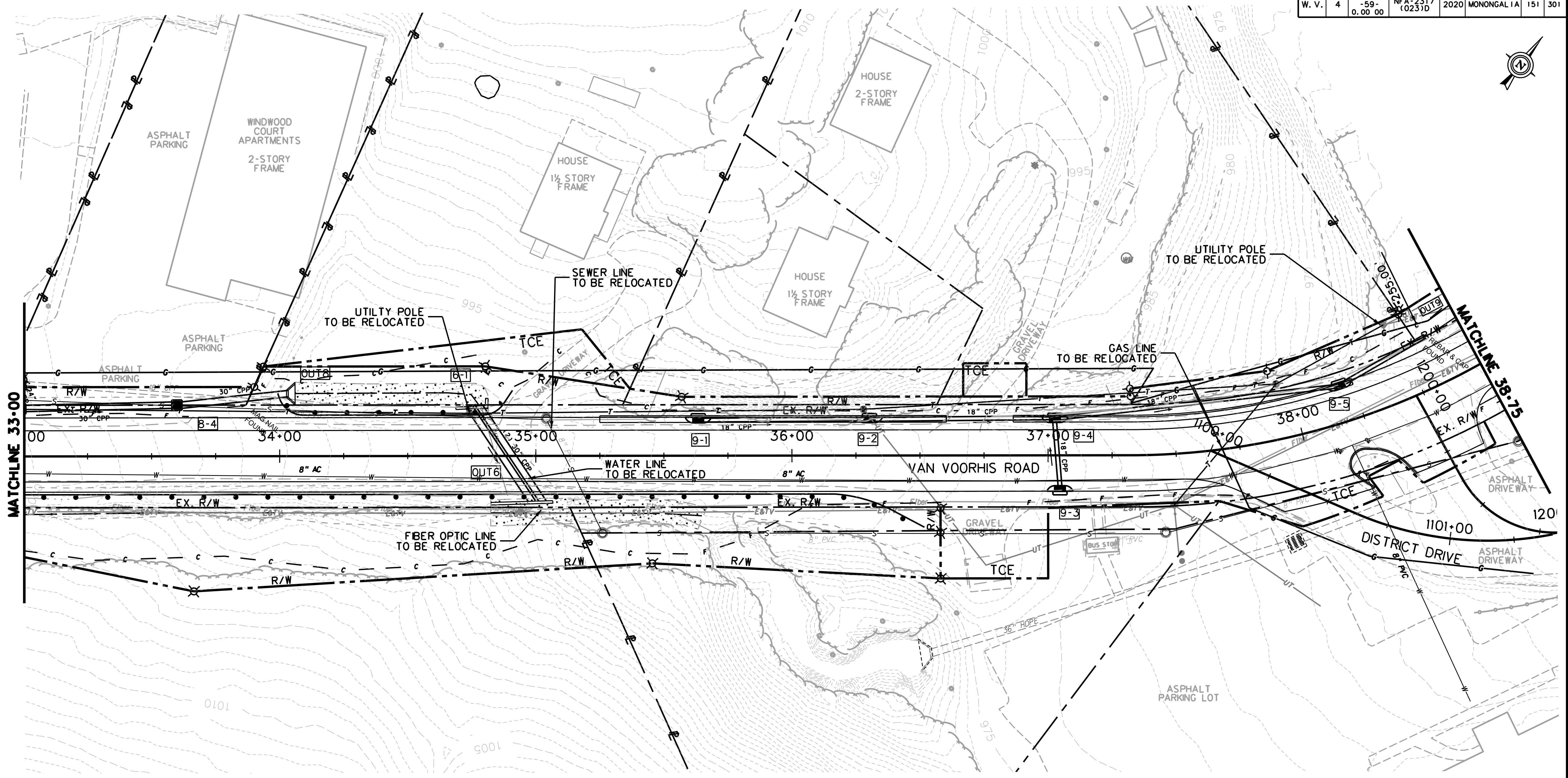
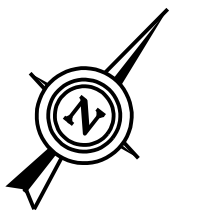


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
UTILITY RELOCATION PLAN

SUBMITTED 6/29/2020

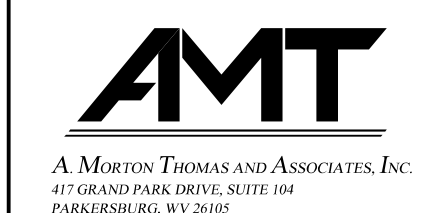
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00-00	NFA-2317 (0231D)	2020	MONONGALIA	151	301



LEGEND

(A)	FIELD CONNECTION TO EXISTING DRAINAGE
(B)	ABANDON EXISTING DRAINAGE
(C)	REMOVE EXISTING DRAINAGE
(D)	ADJUST MANHOLE TYPE A
(2-1)	PROPOSED DRAINAGE STRUCTURE

SCALE : 0 20 ft.

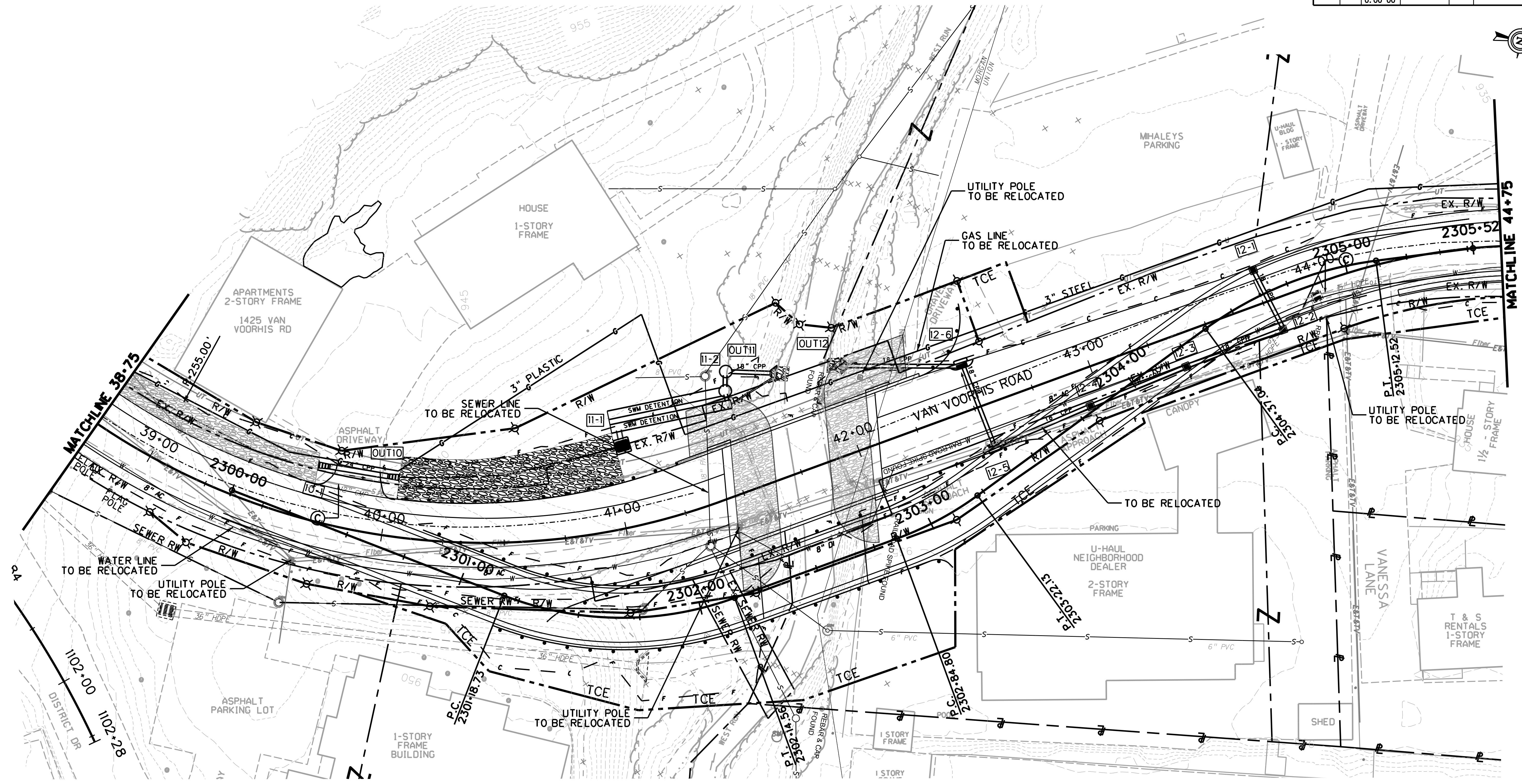


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
UTILITY RELOCATION PLAN

SUBMITTED 6/29/2020

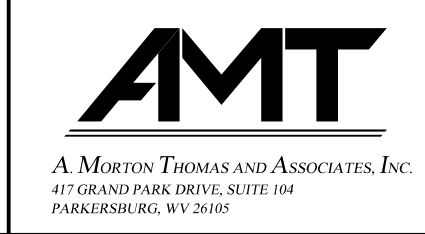
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	152	301



LEGEND

(A)	FIELD CONNECTION TO EXISTING DRAINAGE
(B)	ABANDON EXISTING DRAINAGE
(C)	REMOVE EXISTING DRAINAGE
(D)	ADJUST MANHOLE TYPE A
[Z-1]	PROPOSED DRAINAGE STRUCTURE

SCALE : 0 20 ft.

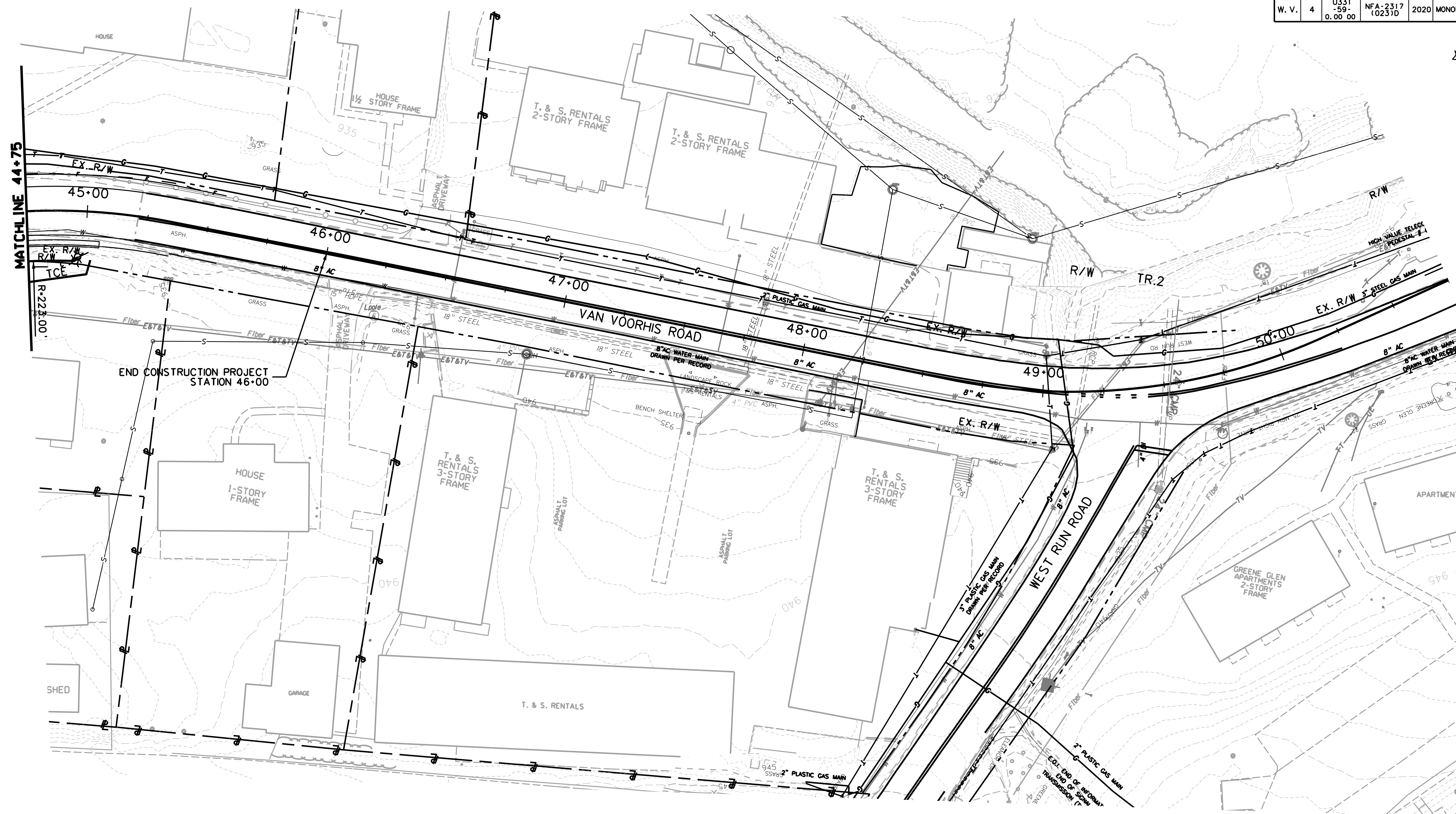
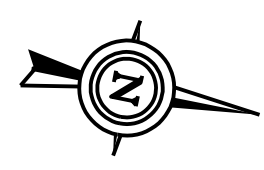


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
UTILITY RELOCATION PLAN

SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (02310)	2020	MONONGALIA	153	301

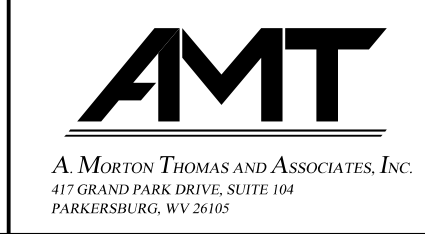


MATCHLINE 44+75

END CONSTRUCTION PROJECT STATION 46+00

LEGEND	
(A)	FIELD CONNECTION TO EXISTING DRAINAGE
(B)	ABANDON EXISTING DRAINAGE
(C)	REMOVE EXISTING DRAINAGE
(D)	ADJUST MANHOLE TYPE A
(2-1)	PROPOSED DRAINAGE STRUCTURE

SCALE : 0 20 ft.

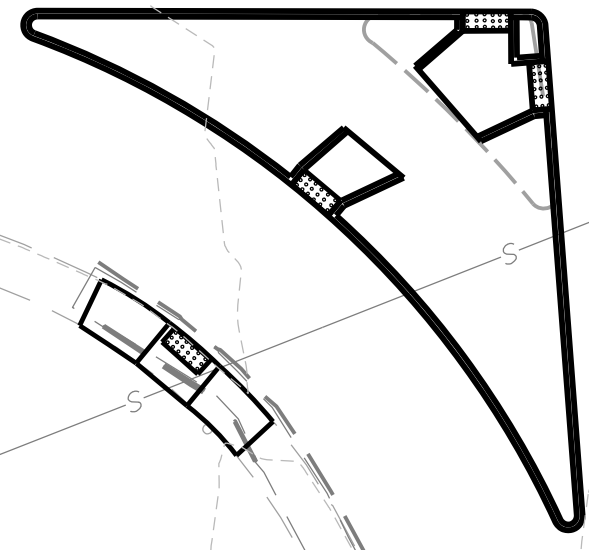
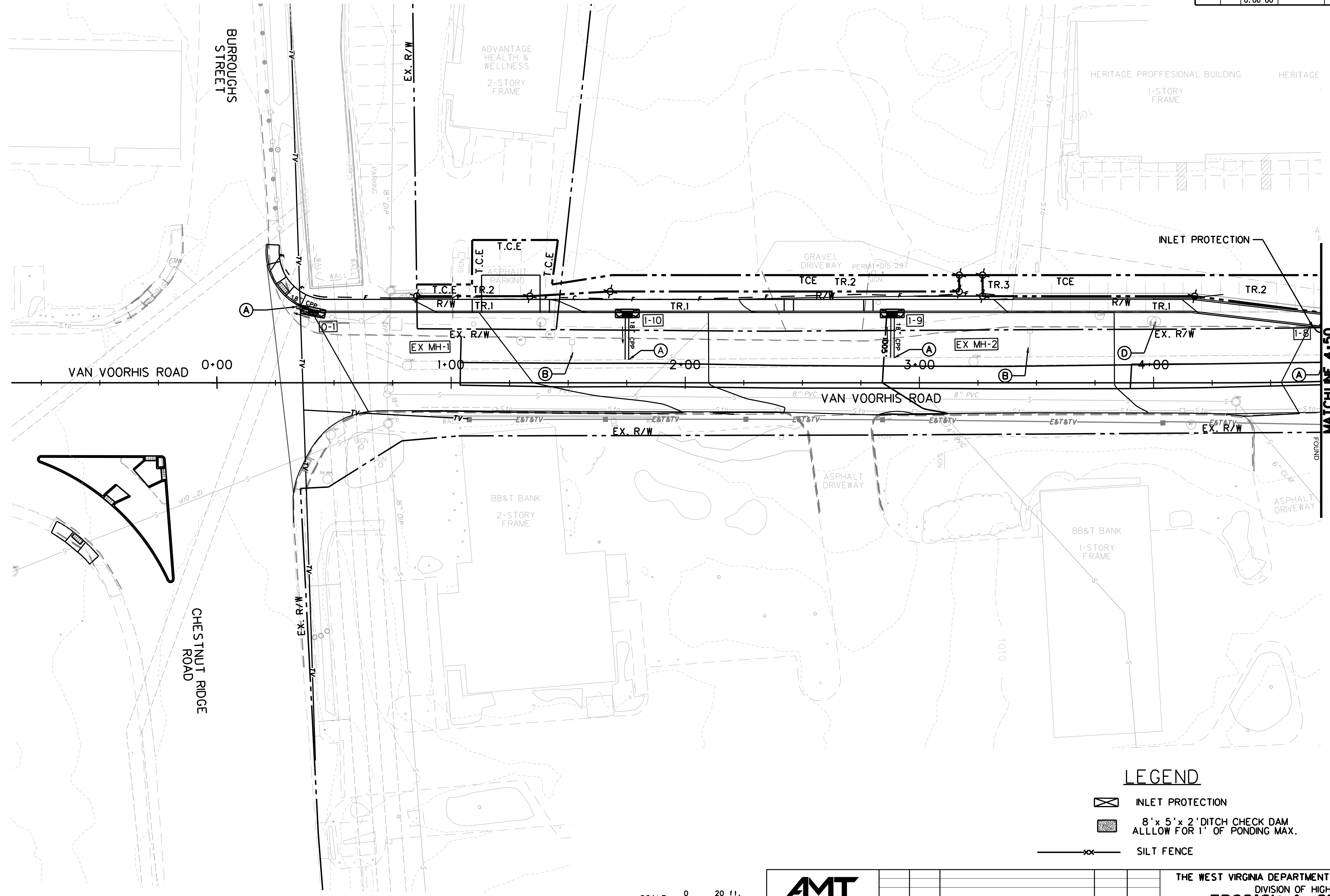
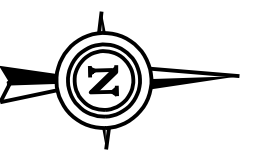


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
UTILITY RELOCATION PLAN

SUBMITTED 6/29/2020

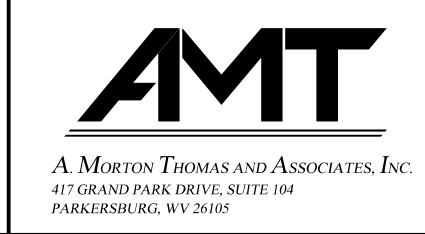
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	154	301



LEGEND

- INLET PROTECTION
- 8' x 5' x 2' DITCH CHECK DAM. ALLOW FOR 1' OF PONDING MAX.
- SILT FENCE

SCALE : 0 20 ft.



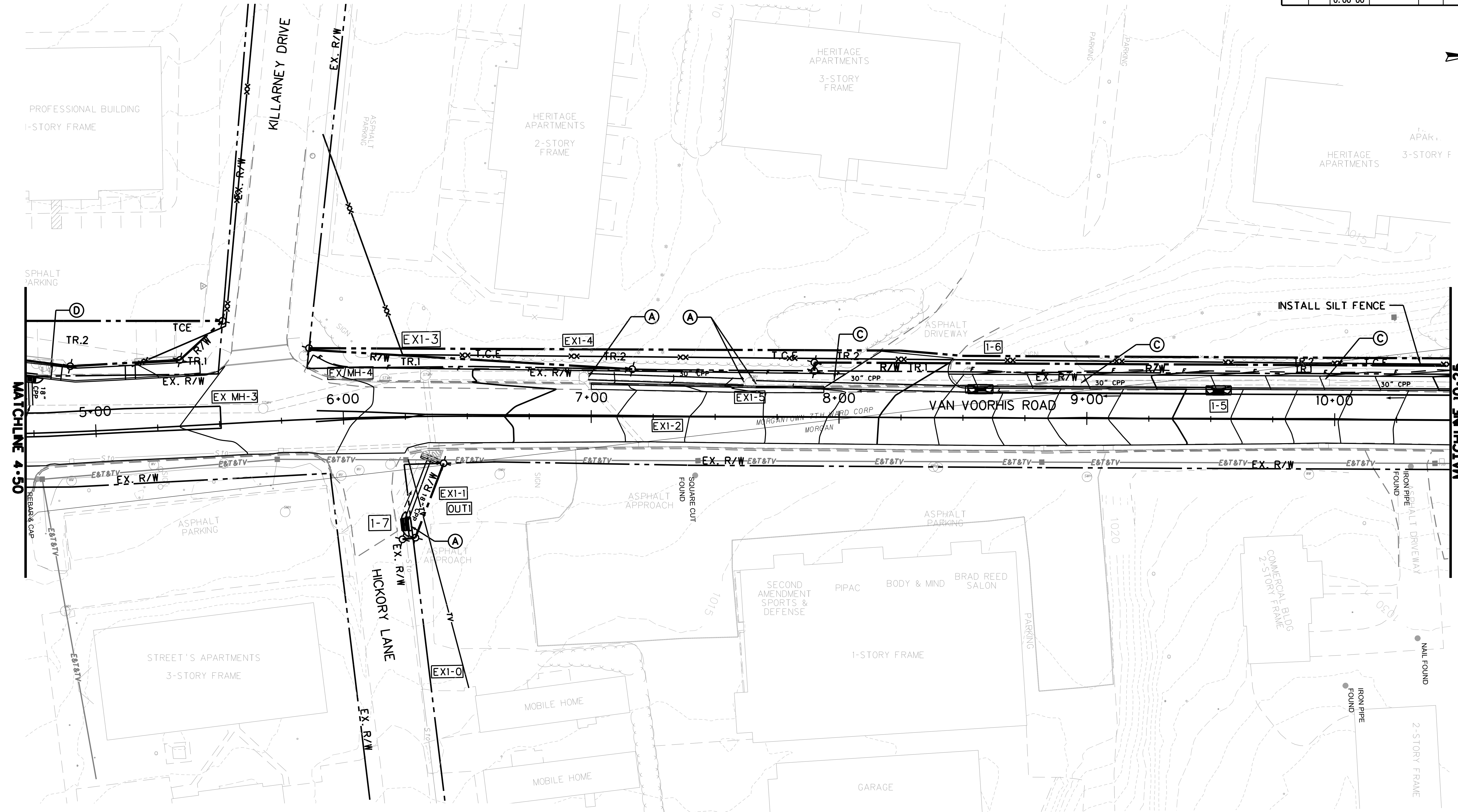
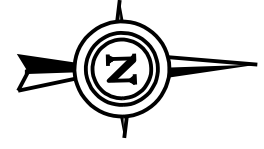
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
EROSION & SEDIMENT CONTROL PLAN

SEE DRAINAGE TABLE FOR LOCATION

SUBMITTED 6/29/2020

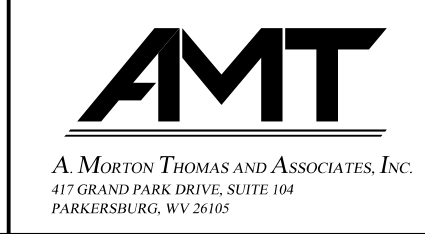
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	155	301



LEGEND

- INLET PROTECTION
- 8' x 5' x 2' DITCH CHECK DAM. ALLOW FOR 1' OF PONDING MAX.
- SILT FENCE

SCALE : 0 20 ft.



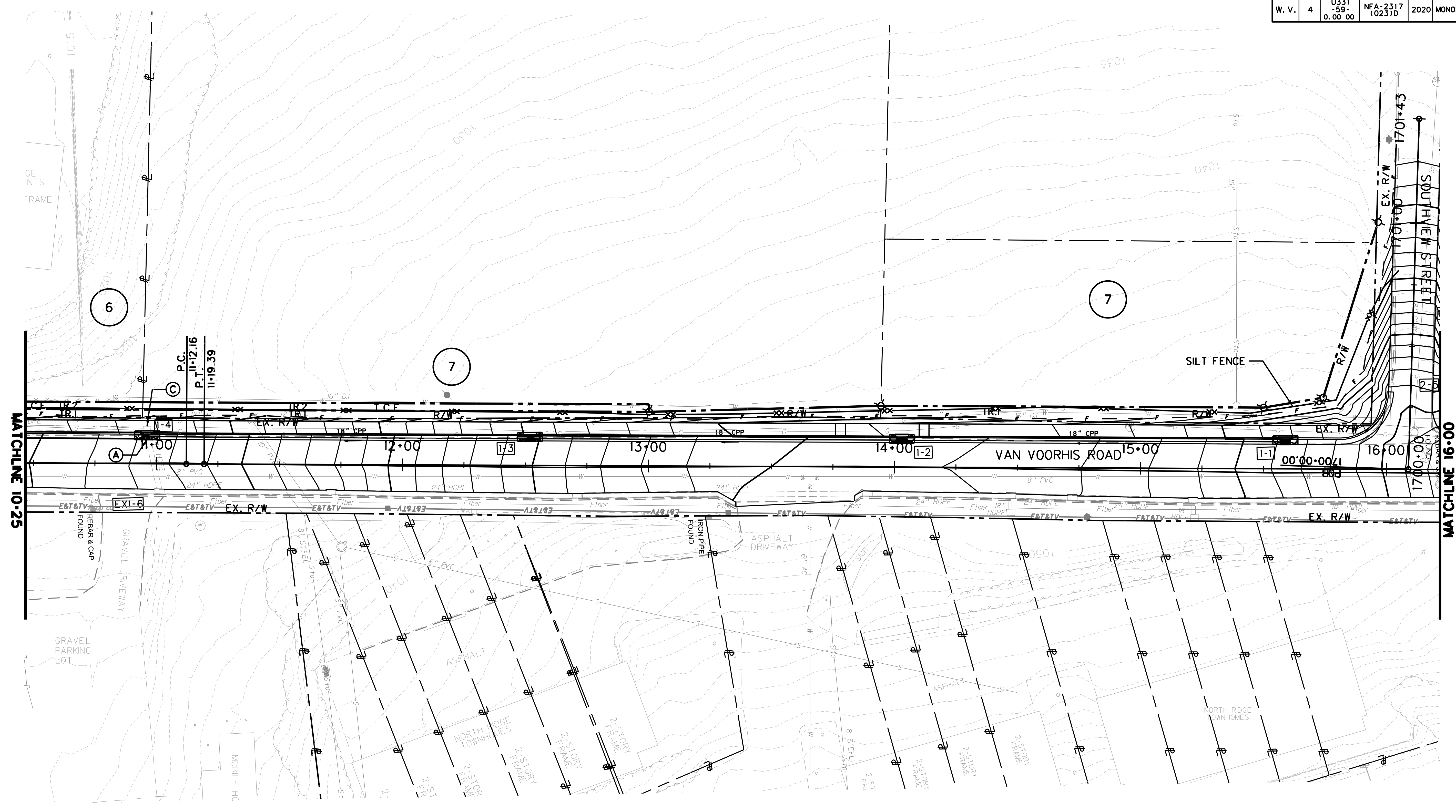
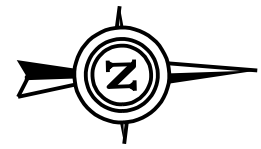
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
EROSION & SEDIMENT CONTROL PLAN

SEE DRAINAGE TABLE FOR LOCATION

SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	156	301



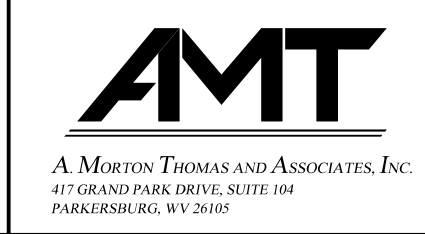
MATCHLINE 10-25

MATCHLINE 16-00

LEGEND

- INLET PROTECTION
- 8' x 5' x 2' DITCH CHECK DAM. ALLOW FOR 1' OF PONDING MAX.
- SILT FENCE

SCALE : 0 20 ft.



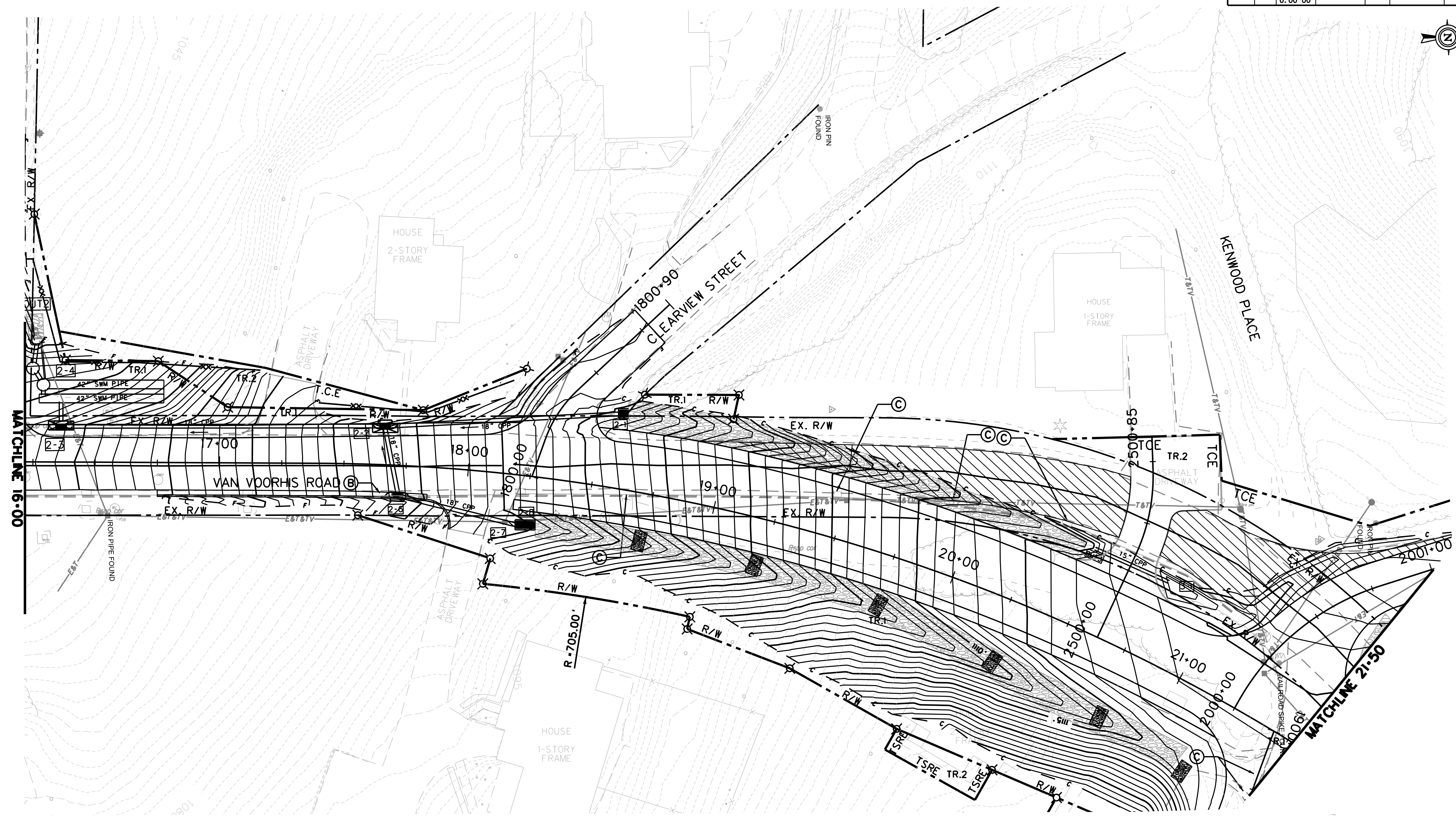
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
EROSION & SEDIMENT CONTROL PLAN




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Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	157	301

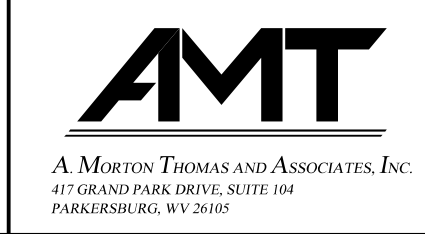


LEGEND

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-  8' x 5' x 2' DITCH CHECK DAM
ALLOW FOR 1' OF PONDING MAX.
-  SILT FENCE

SEE DRAINAGE TABLE FOR LOCATION

SCALE : 0 20 ft.

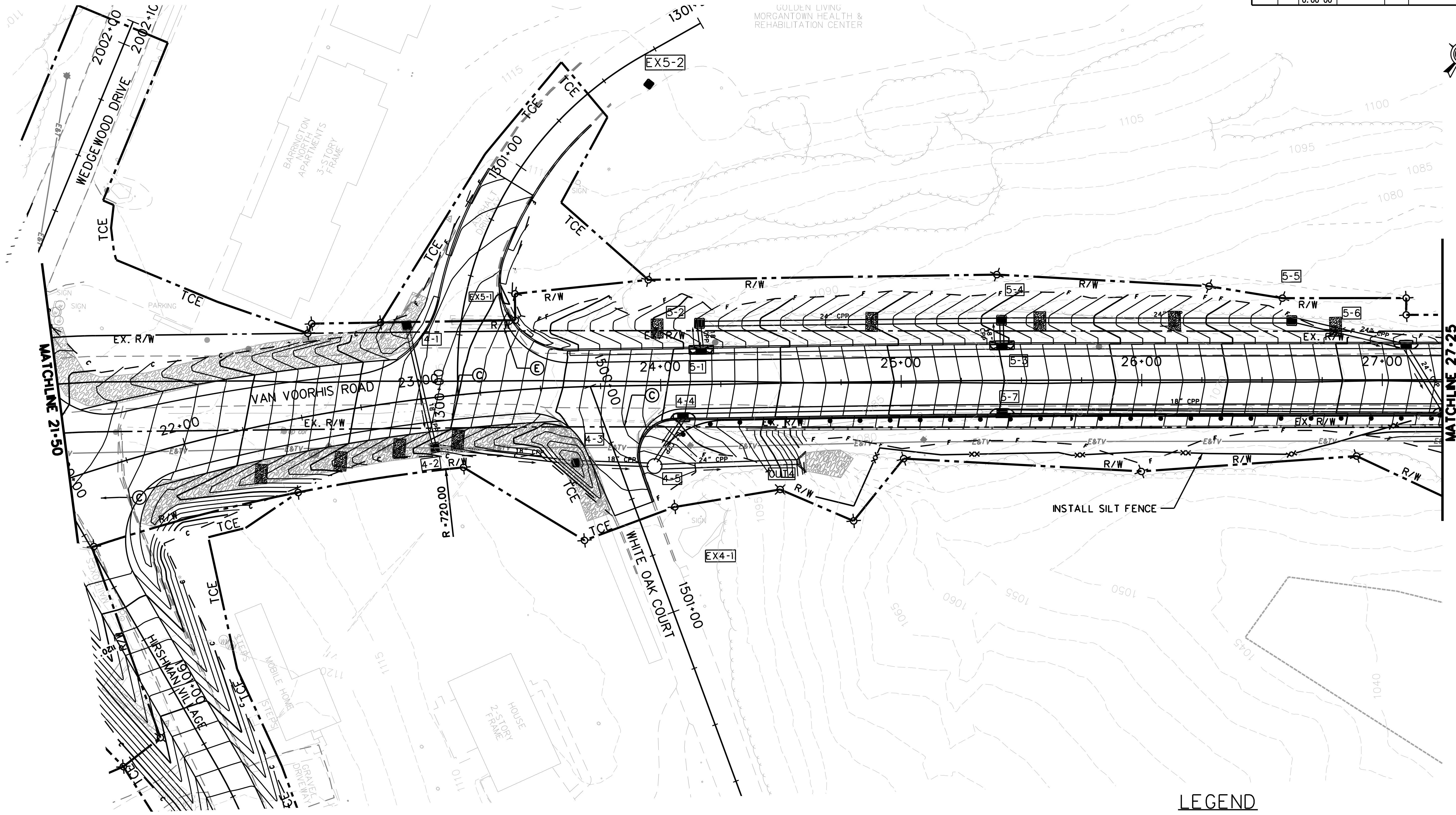


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY




THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
EROSION & SEDIMENT CONTROL PLAN

SUBMITTED 6/29/2020

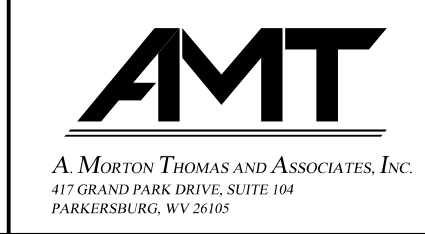
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	158	301



LEGEND

-  INLET PROTECTION
-  8' x 5' x 2' DITCH CHECK DAM. ALLOW FOR 1' OF PONDING MAX.
-  SILT FENCE

SCALE : 0 20 ft.



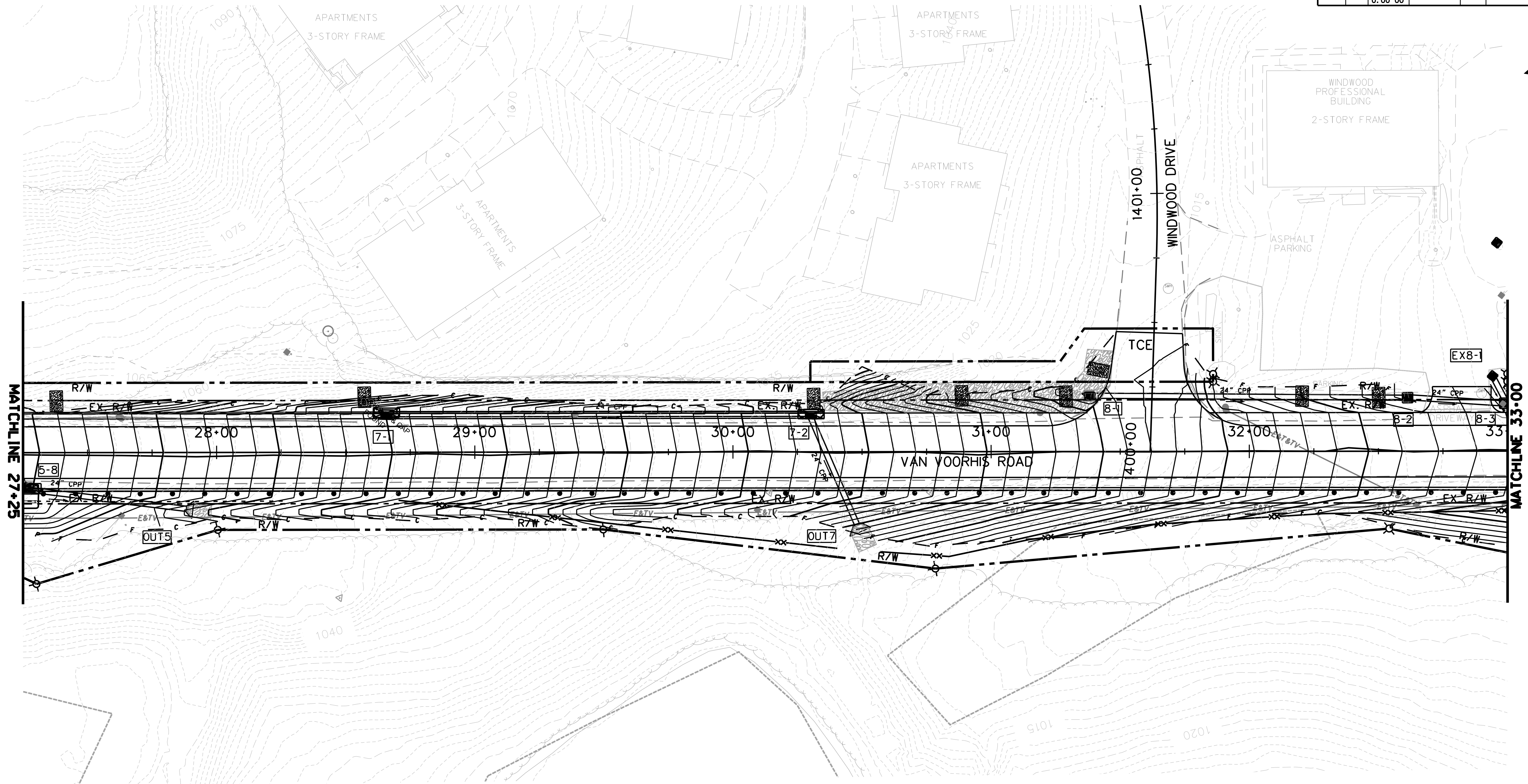
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

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DIVISION OF HIGHWAYS
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W. V.	4	U331-59-0.00-00	NFA-2317 (0231D)	2020	MONONGALIA	159	301



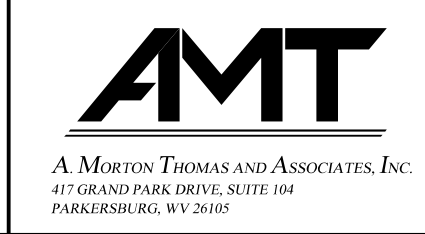
MATCHLINE 27+25

MATCHLINE 33+00

LEGEND

-  INLET PROTECTION
-  8' x 5' x 2' DITCH CHECK DAM
ALLOW FOR 1' OF PONDING MAX.
-  SILT FENCE

SCALE : 0 20 ft.



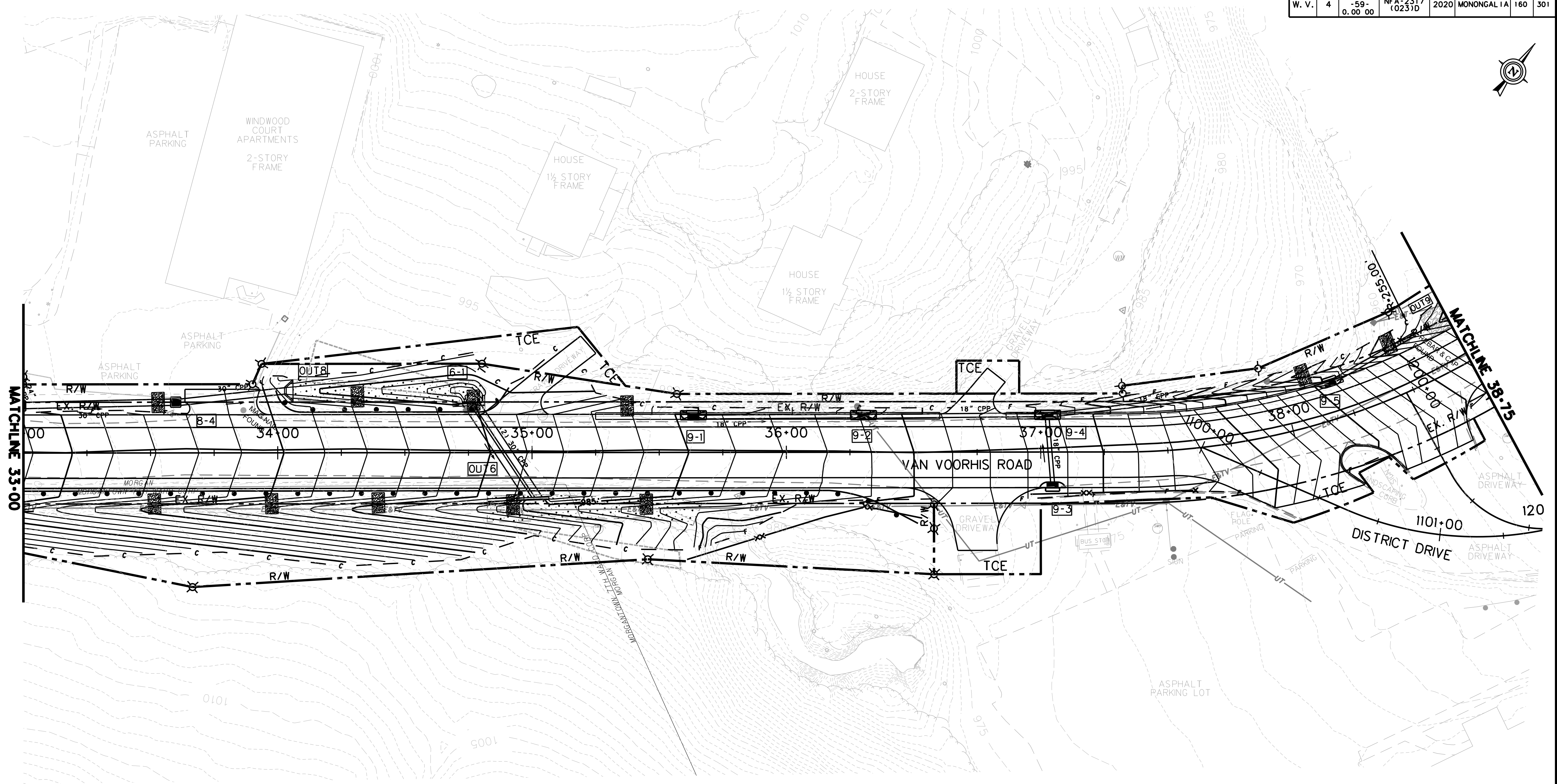
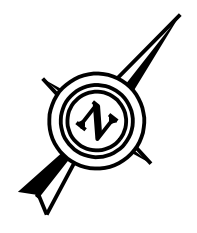
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
EROSION & SEDIMENT CONTROL PLAN



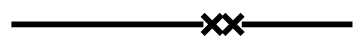
SEE DRAINAGE TABLE FOR LOCATION

SUBMITTED 6/29/2020

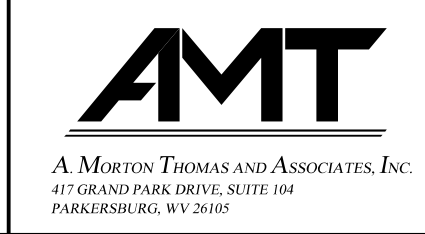
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	160	301



LEGEND

-  INLET PROTECTION
-  8' x 5' x 2' DITCH CHECK DAM
ALLOW FOR 1' OF PONDING MAX.
-  SILT FENCE

SCALE : 0 20 ft.



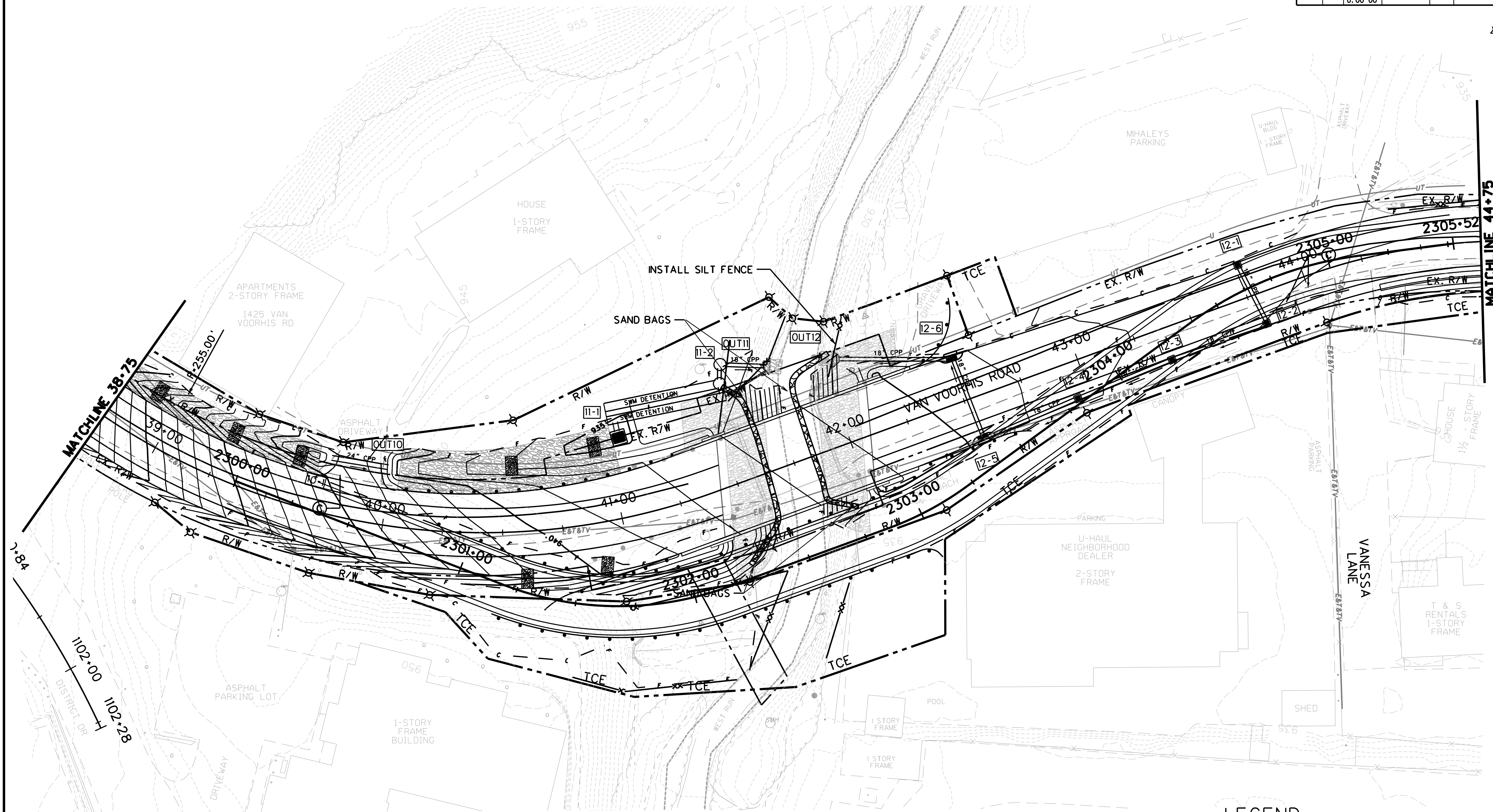
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
EROSION & SEDIMENT CONTROL PLAN

SEE DRAINAGE TABLE FOR LOCATION

SUBMITTED 6/29/2020

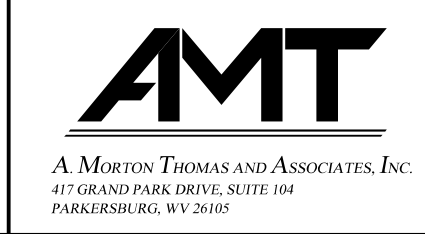
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	161	301



LEGEND

- INLET PROTECTION
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ALLOW FOR 1' OF PONDING MAX.
- SILT FENCE

SCALE : 0 20 ft.



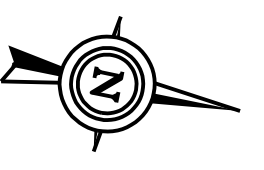
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
EROSION & SEDIMENT CONTROL PLAN

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SUBMITTED 6/29/2020

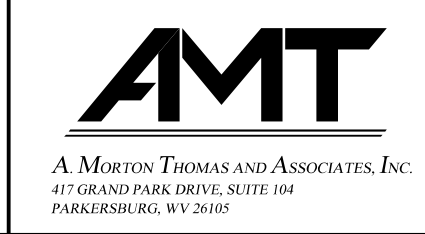
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W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	162	301



LEGEND

- INLET PROTECTION
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ALLOW FOR 1' OF PONDING MAX.
- SILTY FENCE

SCALE : 0 20 ft.



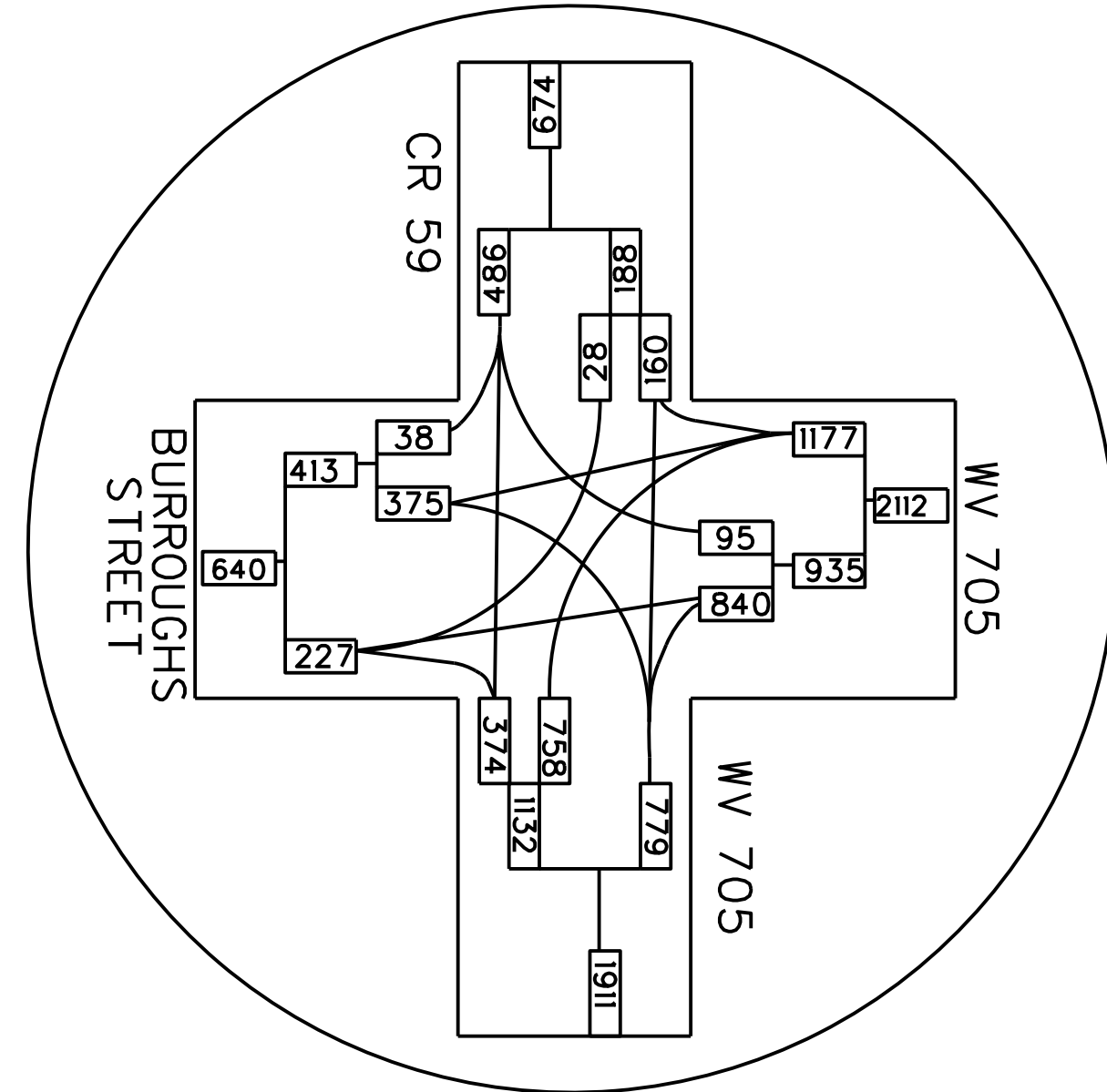
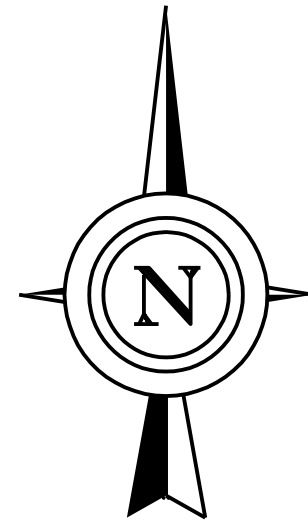
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
EROSION & SEDIMENT CONTROL PLAN

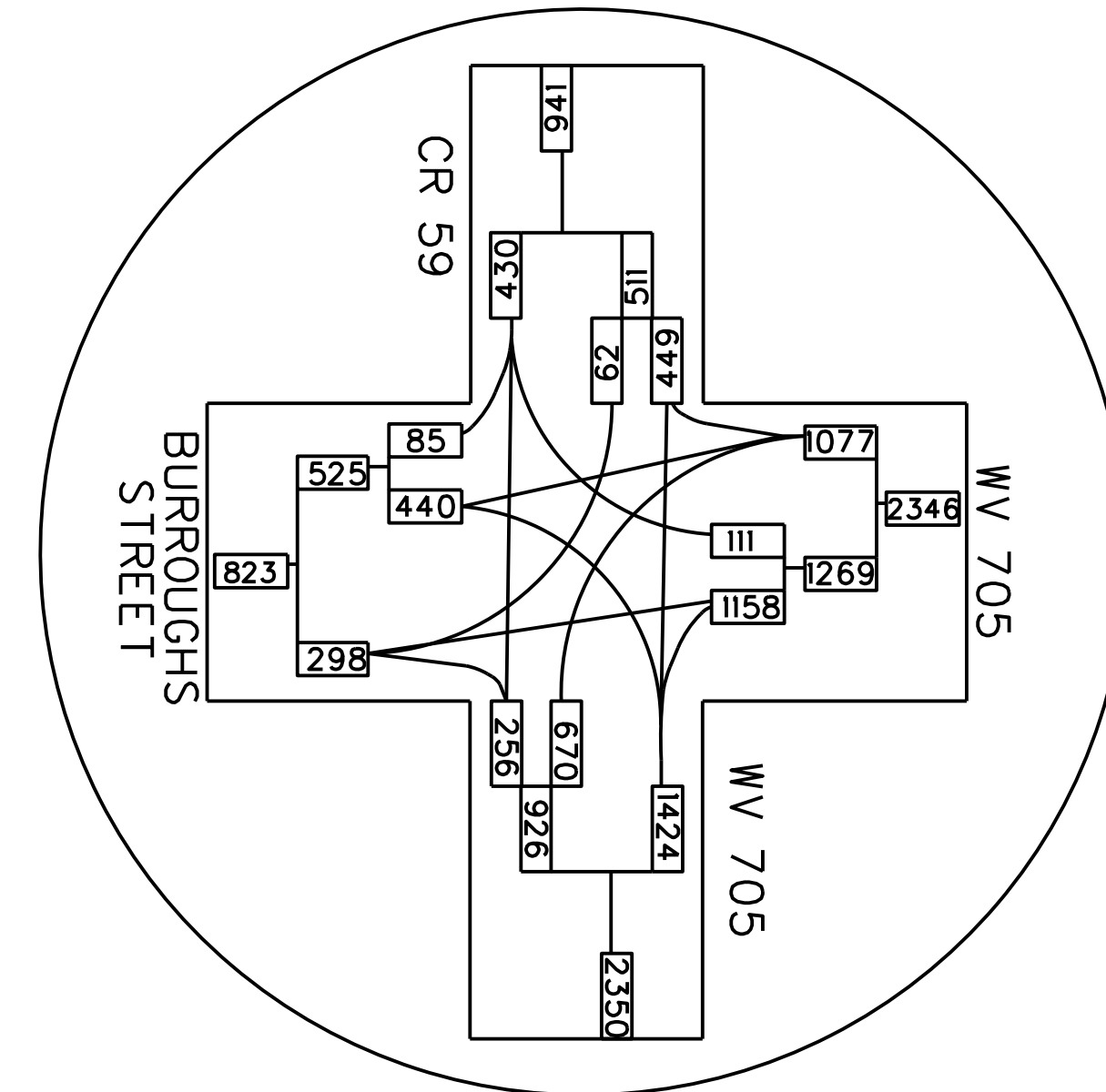
SEE DRAINAGE TABLE FOR LOCATION

SUBMITTED 6/29/2020

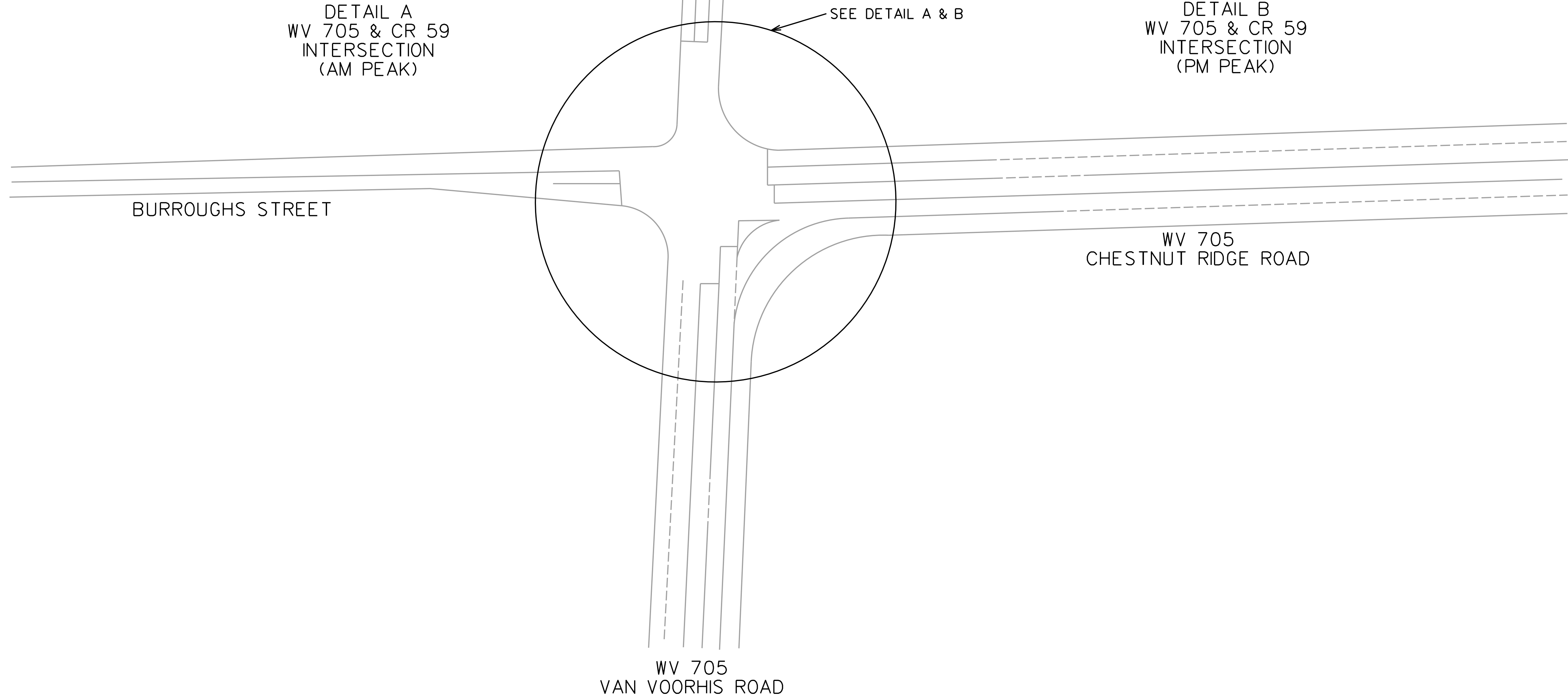
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	163	301



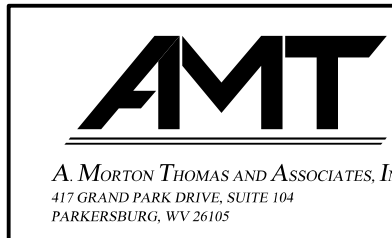
DETAIL A
WV 705 & CR 59
INTERSECTION
(AM PEAK)



DETAIL B
WV 705 & CR 59
INTERSECTION
(PM PEAK)



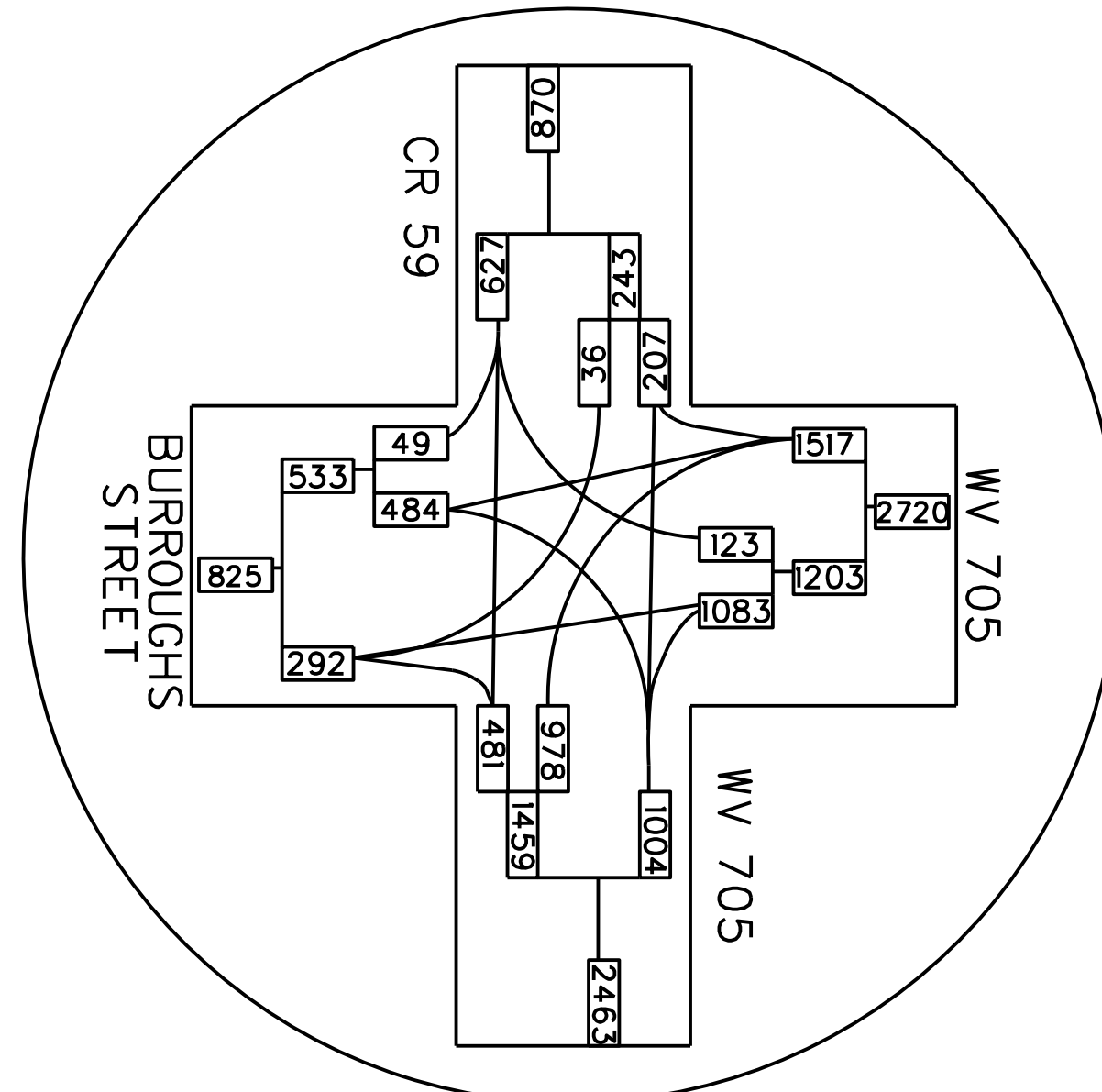
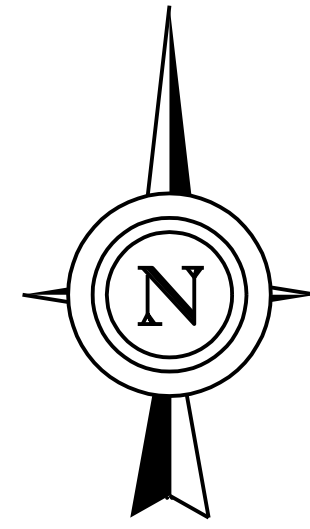
SUBMITTED 6/29/2020



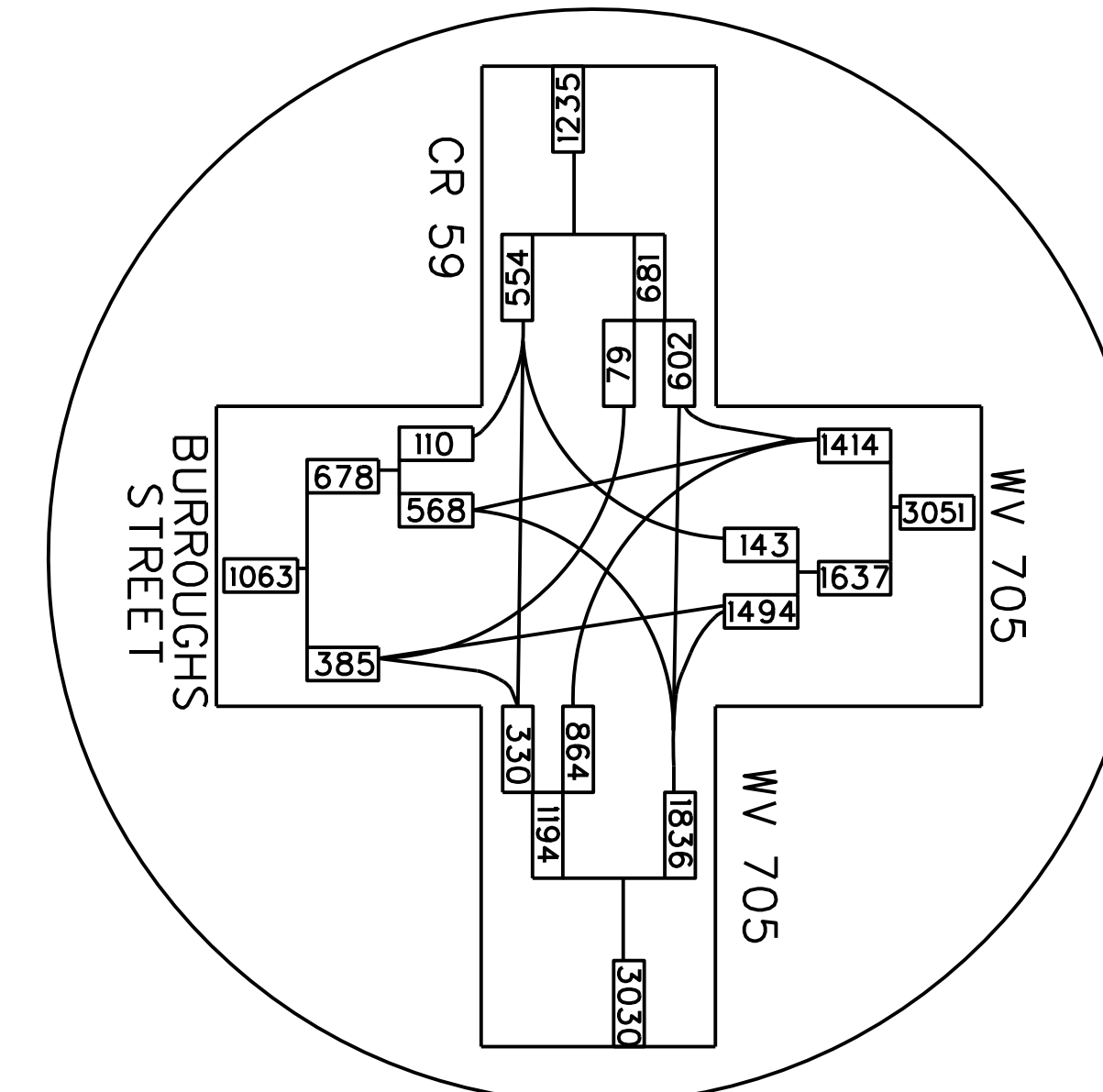
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TRAFFIC SKETCH MAP
2020 PEAK HOUR VOLUMES

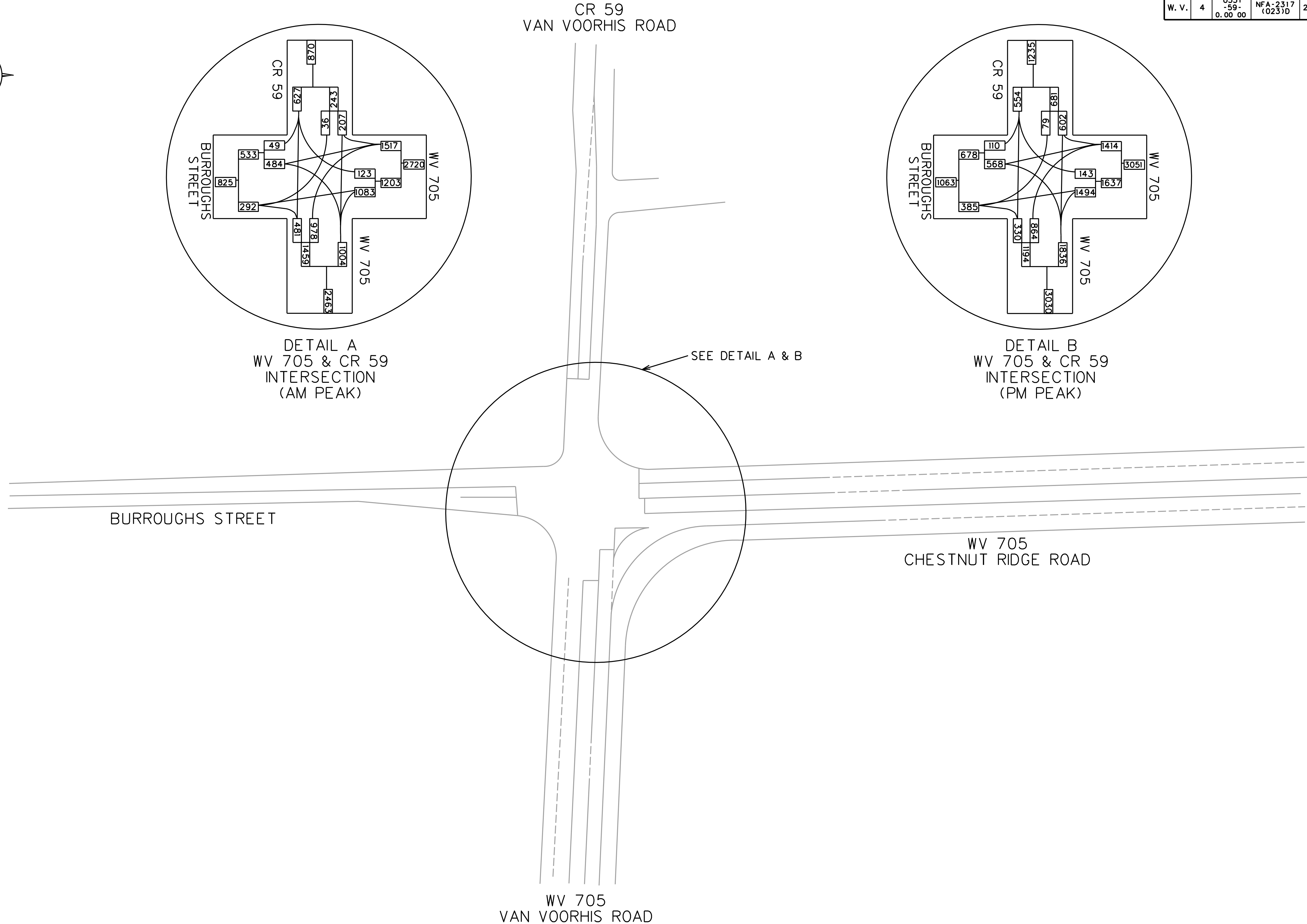
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	164	301



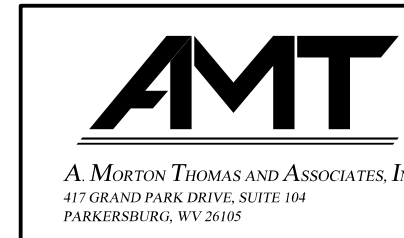
DETAIL A
WV 705 & CR 59
INTERSECTION
(AM PEAK)



DETAIL B
WV 705 & CR 59
INTERSECTION
(PM PEAK)



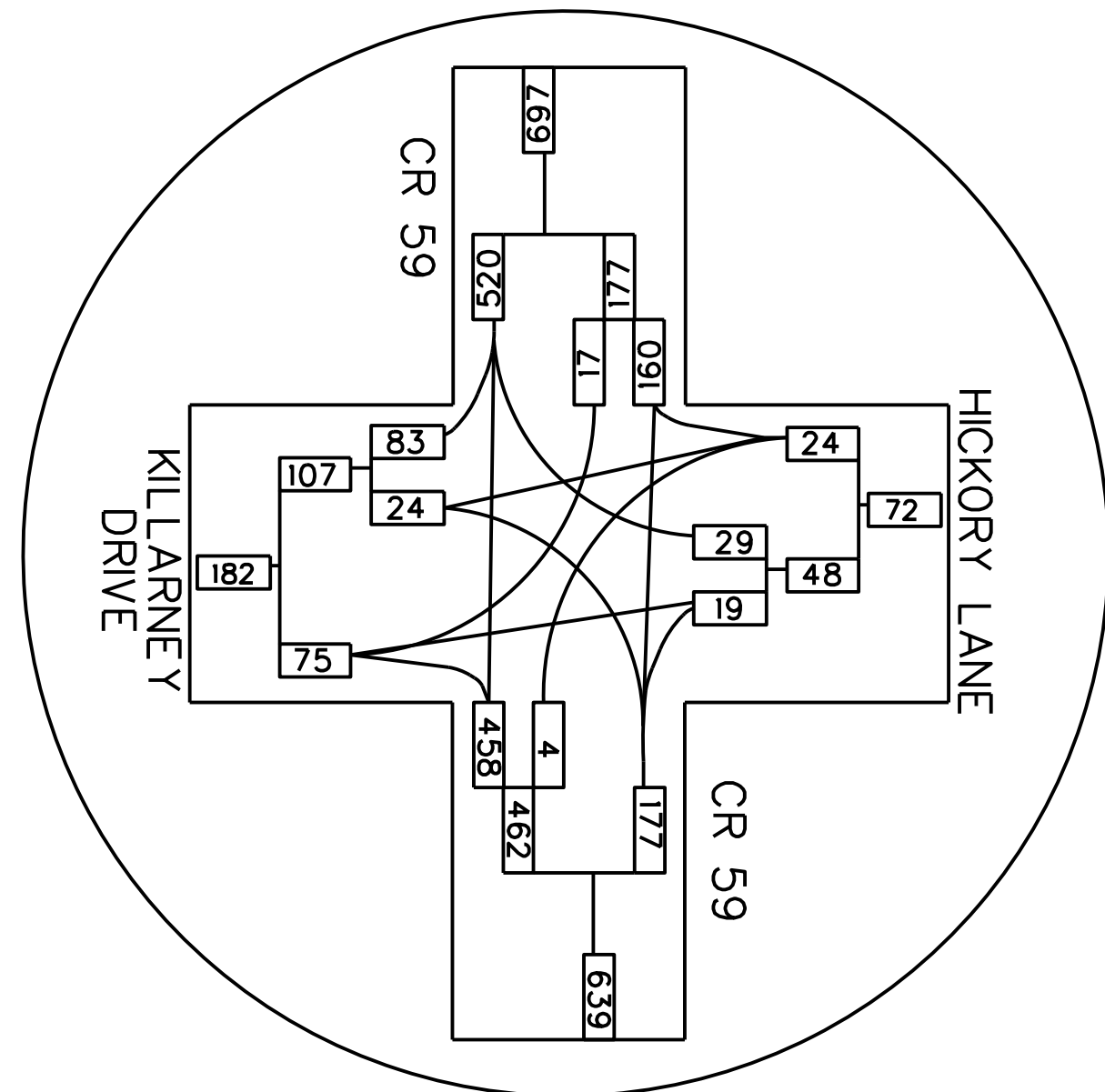
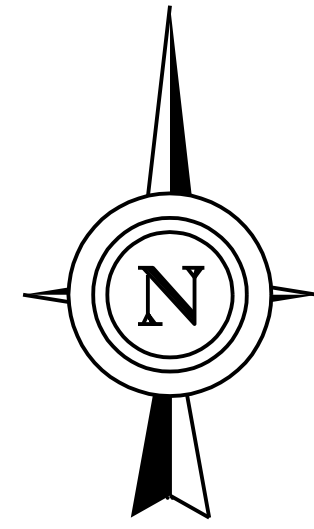
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REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

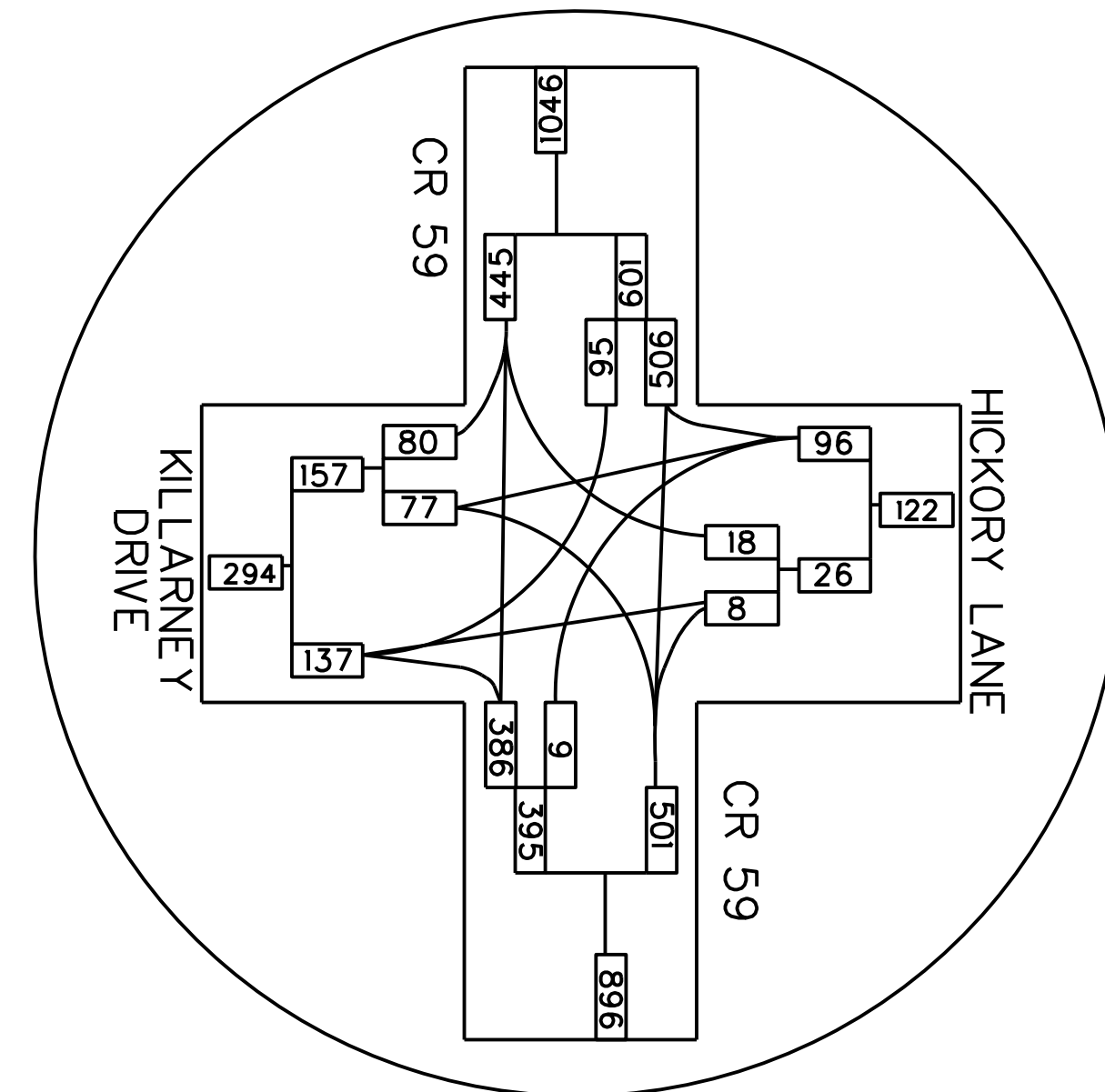
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TRAFFIC SKETCH MAP
2040 PEAK HOUR VOLUMES

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0237D)	2020	MONONGALIA	165	301



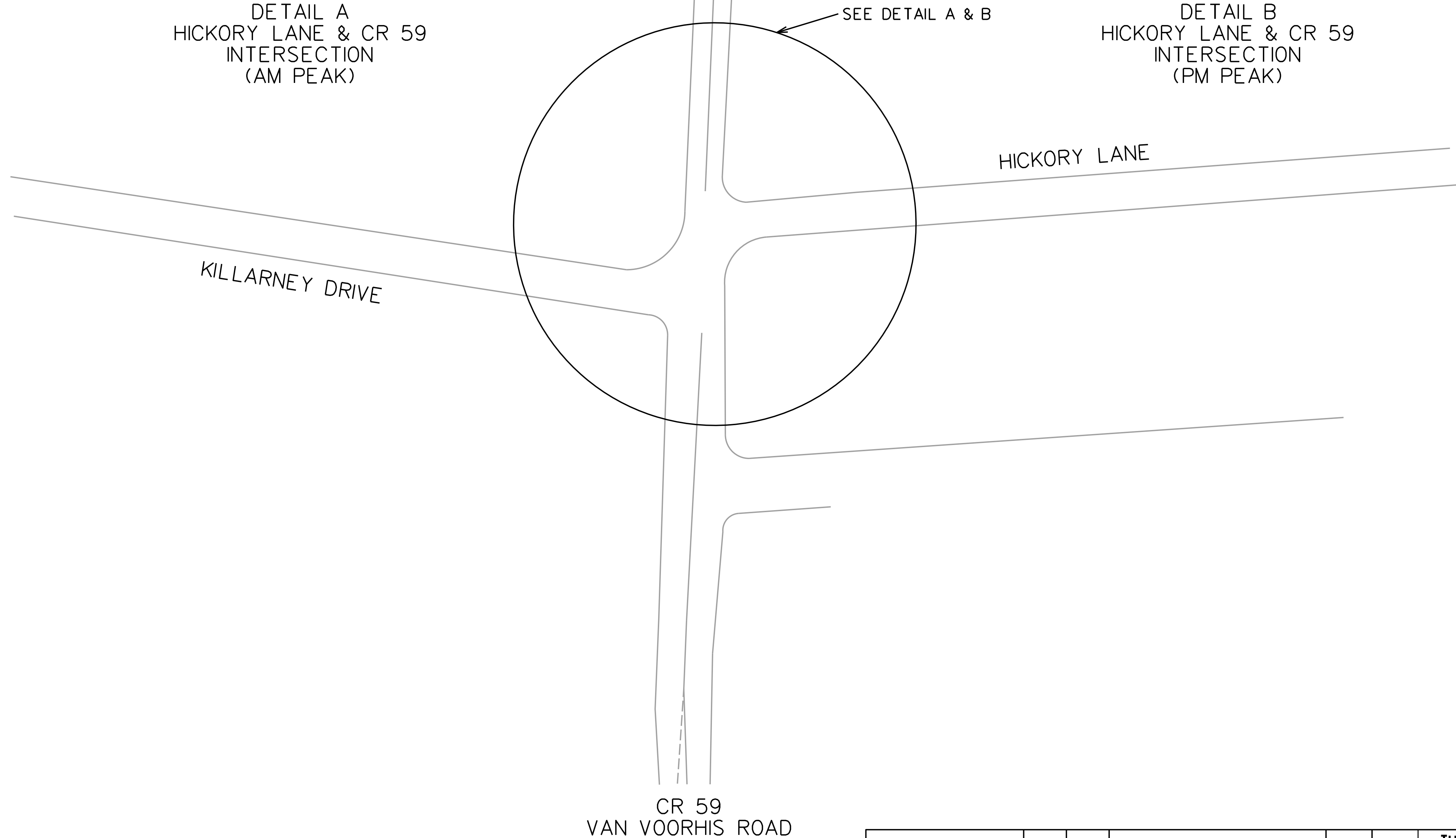
DETAIL A
HICKORY LANE & CR 59
INTERSECTION
(AM PEAK)

CR 59
VAN VOORHIS ROAD



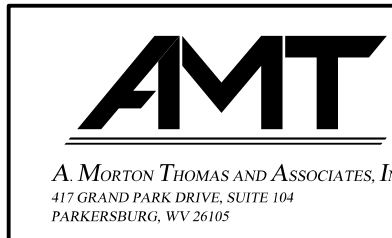
DETAIL B
HICKORY LANE & CR 59
INTERSECTION
(PM PEAK)

SEE DETAIL A & B



CR 59
VAN VOORHIS ROAD

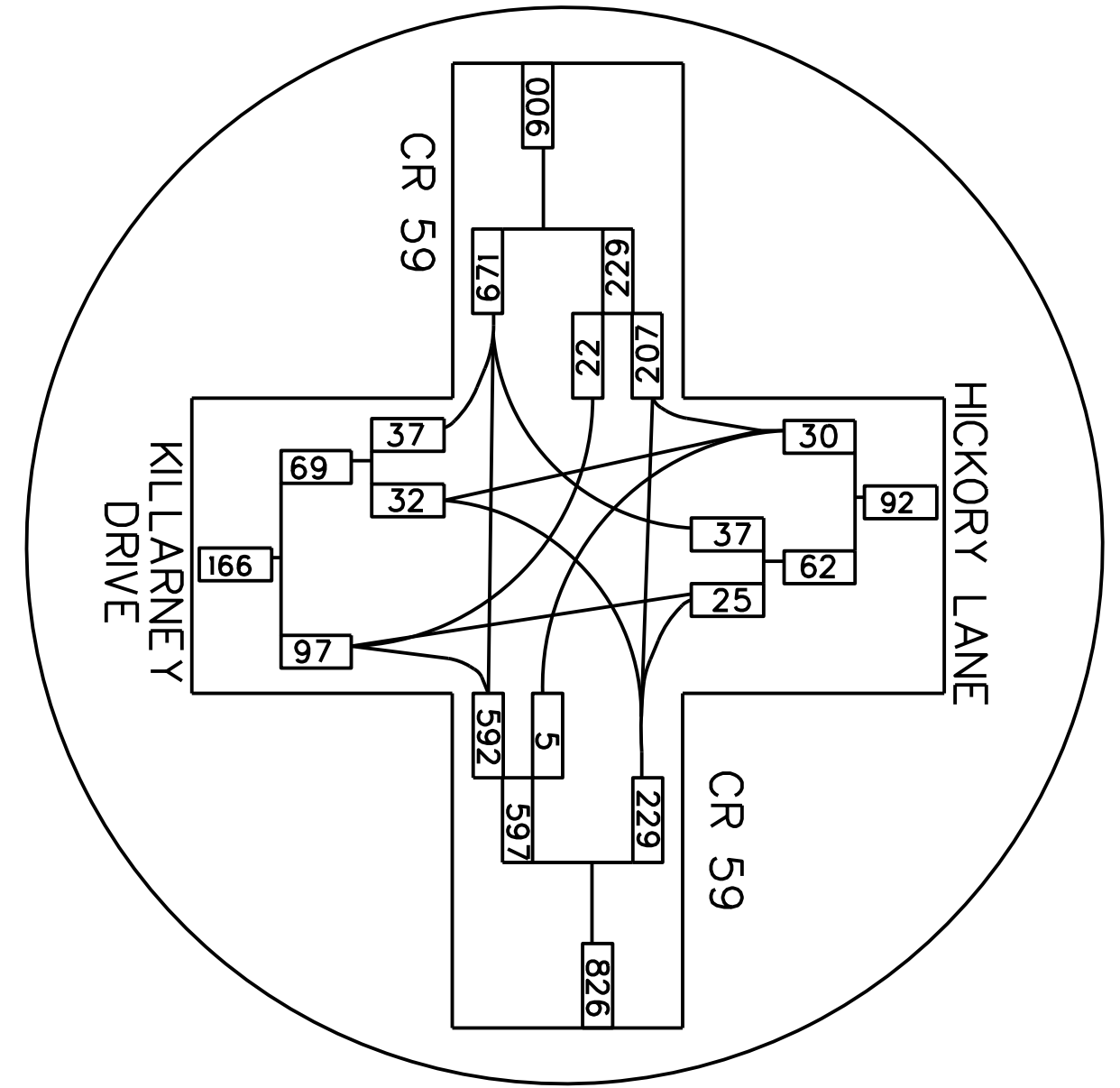
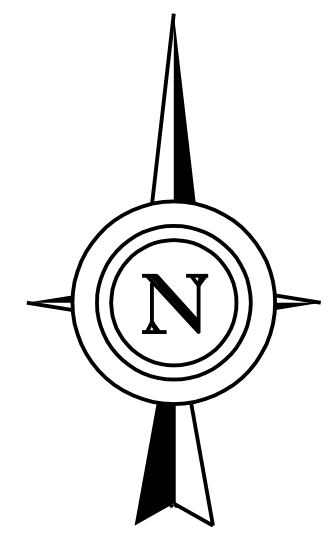
SUBMITTED 6/29/2020



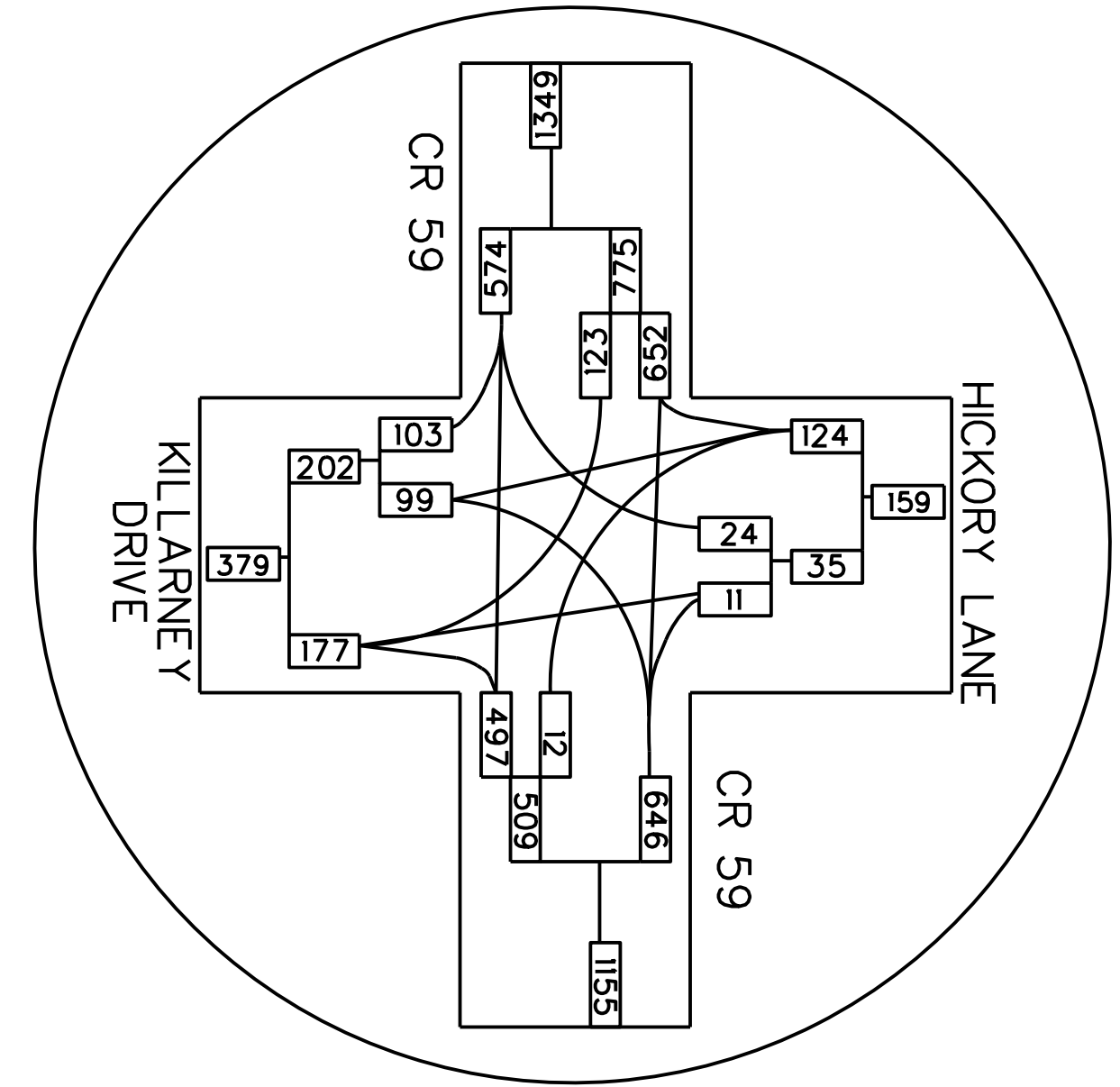
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TRAFFIC SKETCH MAP
2020 PEAK HOUR VOLUMES

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	166	301



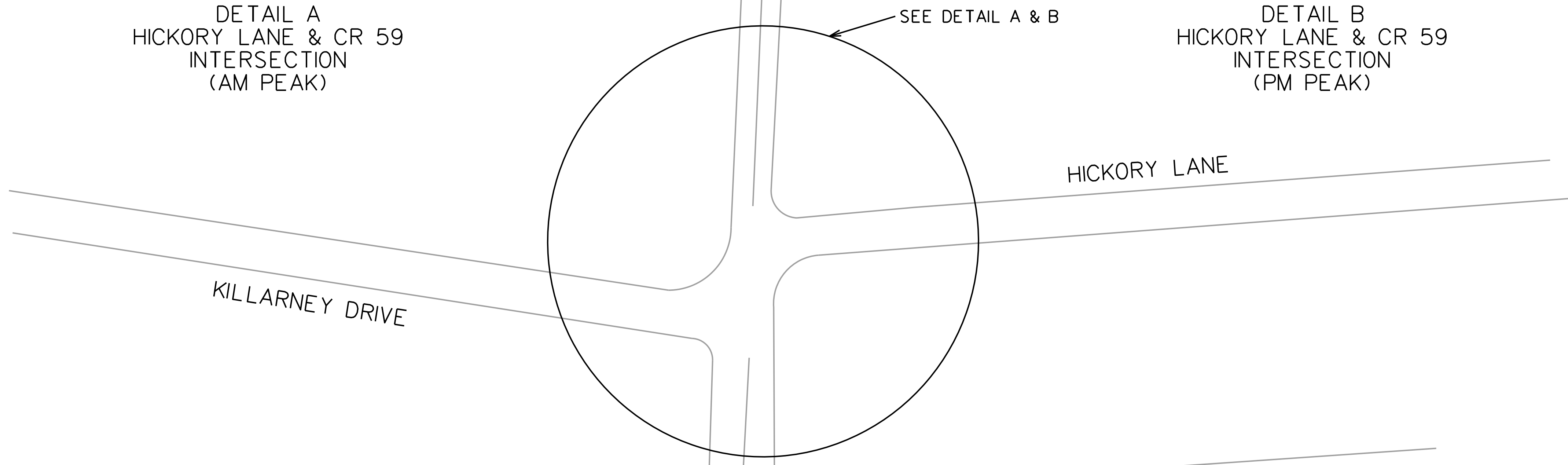
DETAIL A
HICKORY LANE & CR 59
INTERSECTION
(AM PEAK)



DETAIL B
HICKORY LANE & CR 59
INTERSECTION
(PM PEAK)

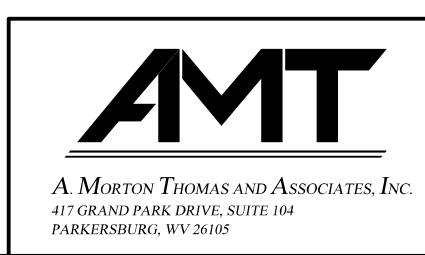
CR 59
VAN VOORHIS ROAD

CR 59
VAN VOORHIS ROAD



SEE DETAIL A & B

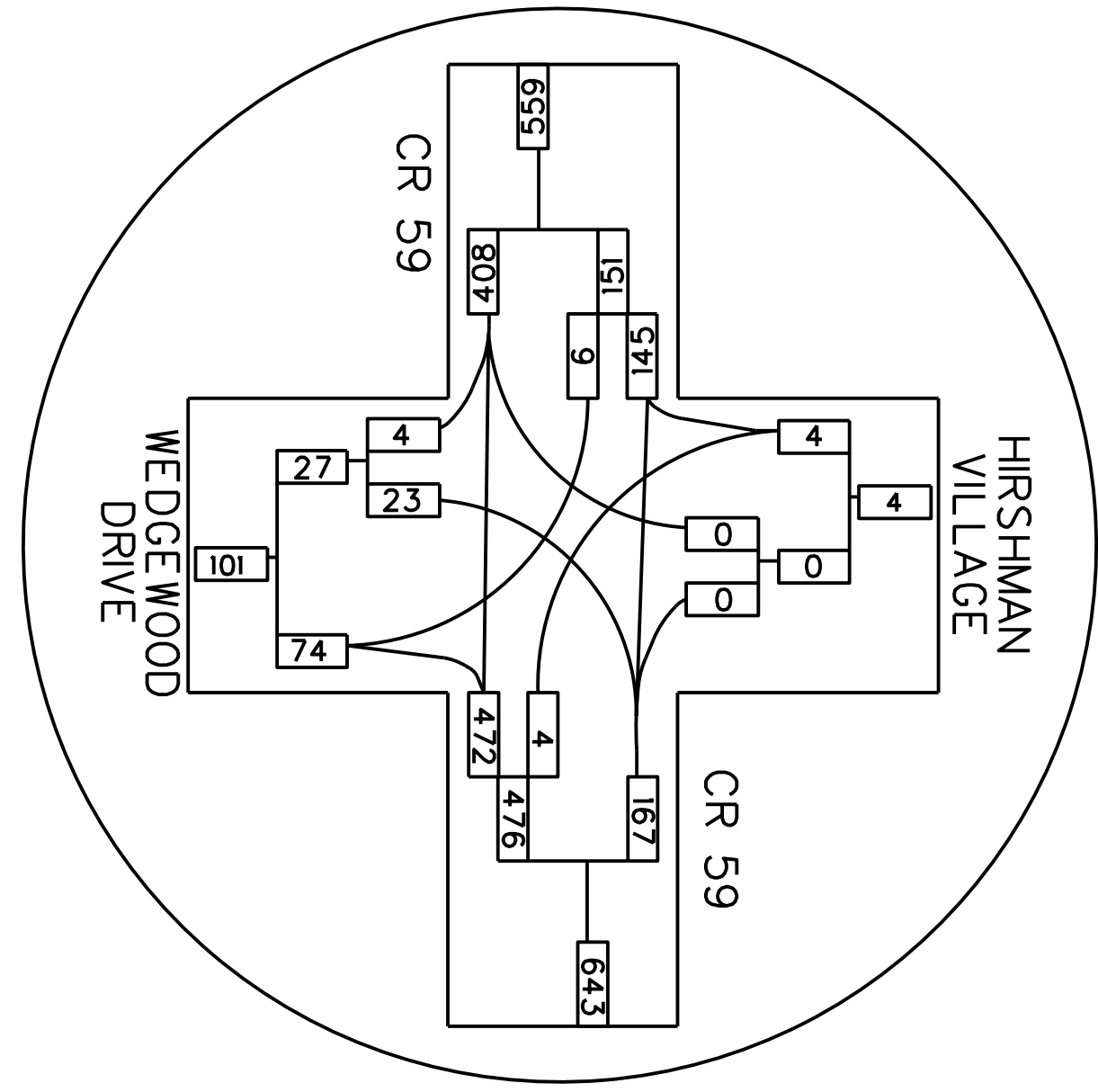
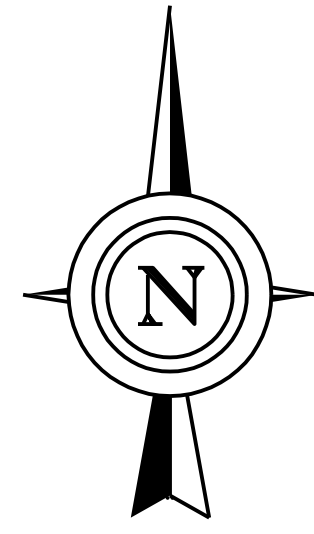
SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TRAFFIC SKETCH MAP
2040 PEAK HOUR VOLUMES

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W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	167	301

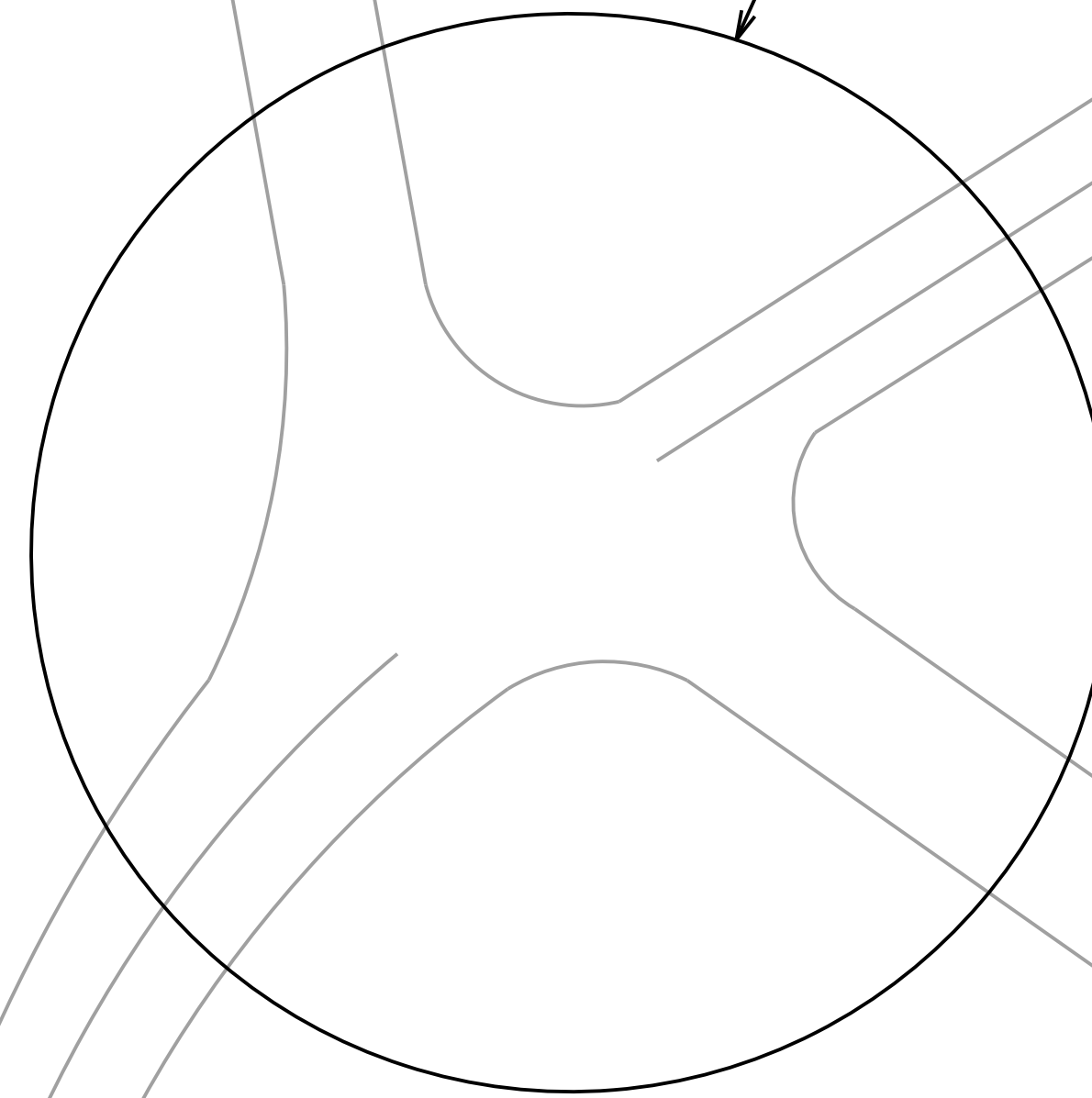


DETAIL A
WEDGEWOOD DRIVE & CR 59
INTERSECTION
(AM PEAK)

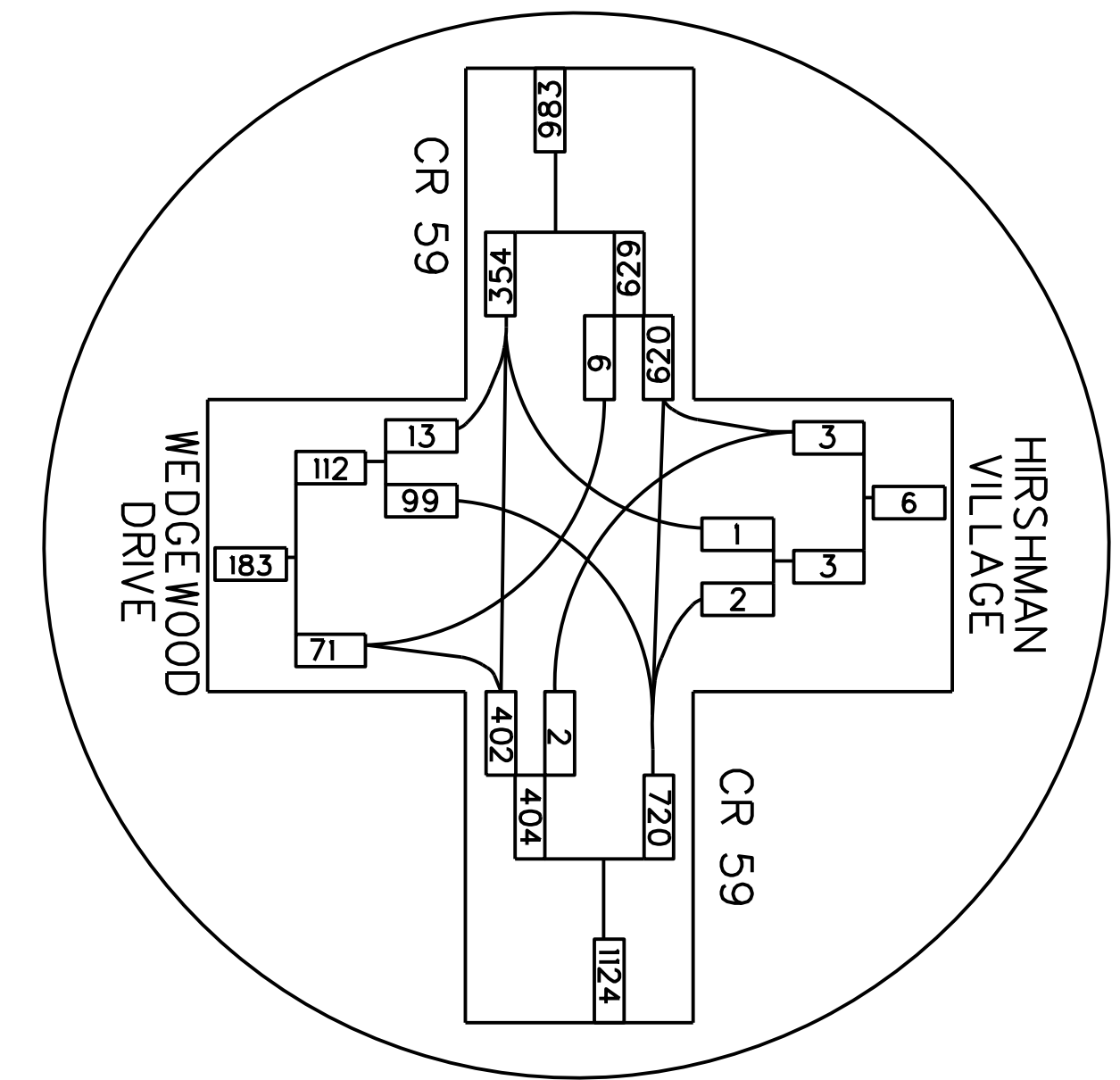
WEDGEWOOD DRIVE

VAN VOORHIS ROAD
CR 59

SEE DETAIL A & B



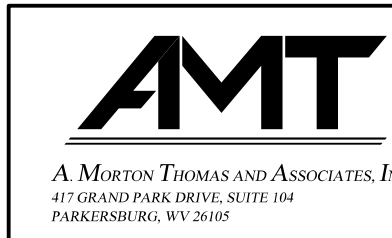
HIRSHMAN VILLAGE



DETAIL B
WEDGEWOOD DRIVE & CR 59
INTERSECTION
(PM PEAK)

CR 59
VAN VOORHIS ROAD

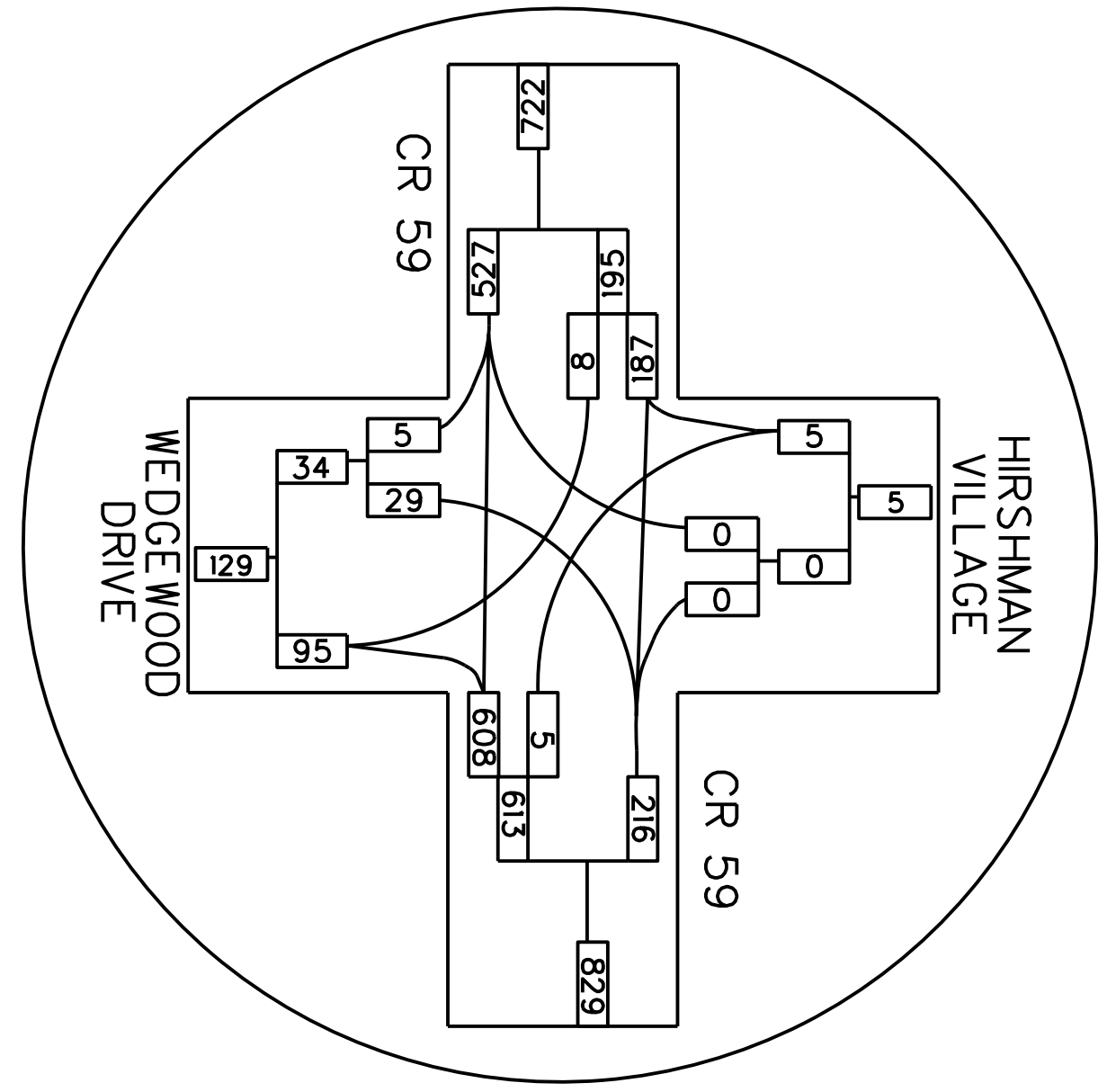
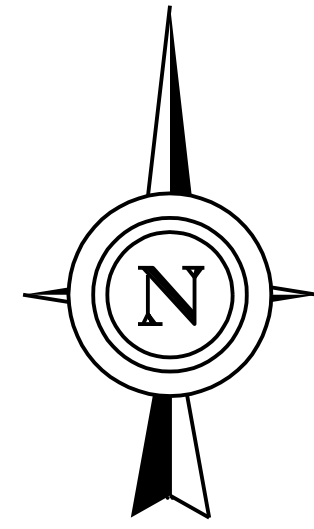
SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TRAFFIC SKETCH MAP
2020 PEAK HOUR VOLUMES

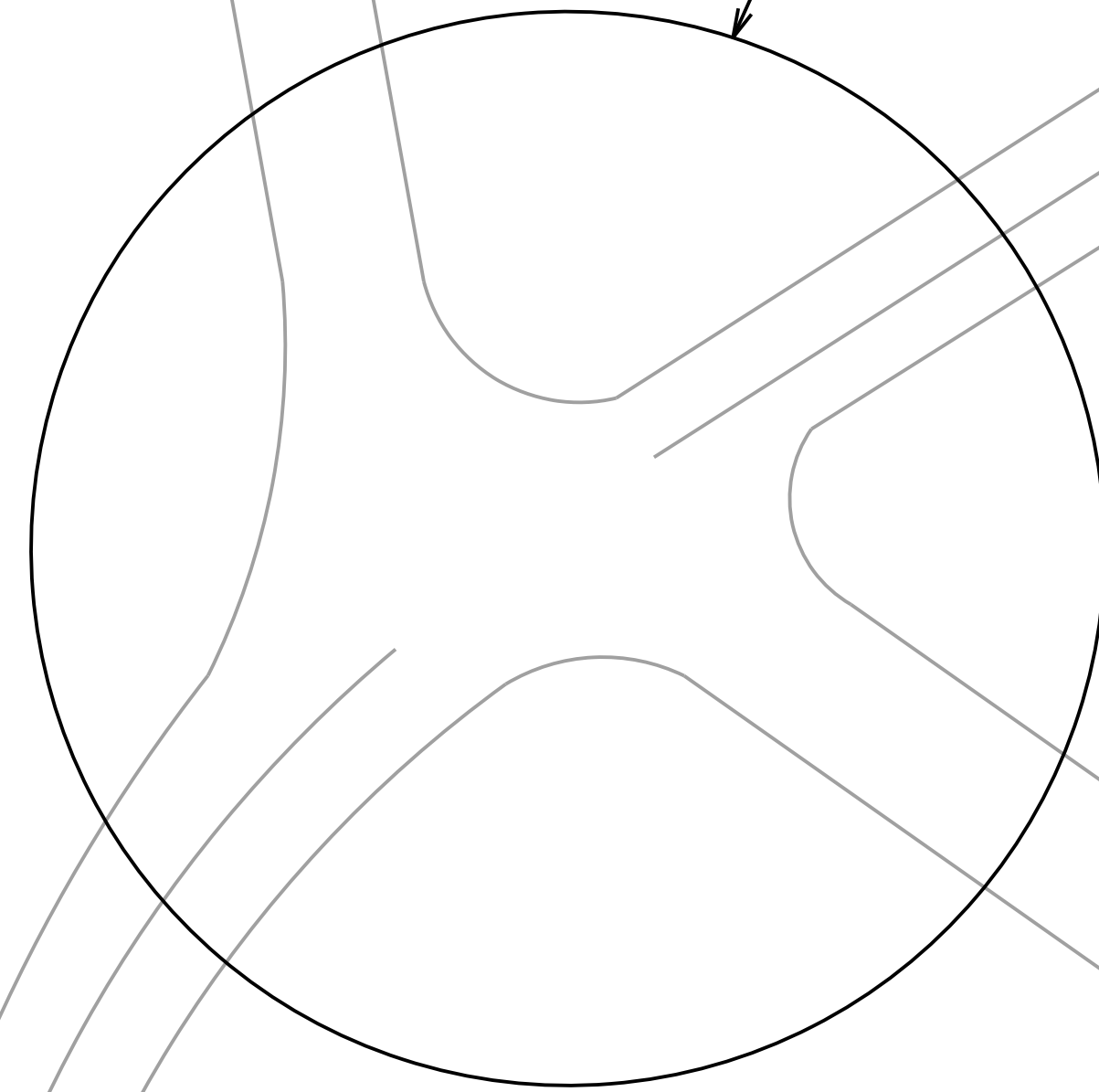
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0237D)	2020	MONONGALIA	168	301



DETAIL A
WEDGEWOOD DRIVE & CR 59
INTERSECTION
(AM PEAK)

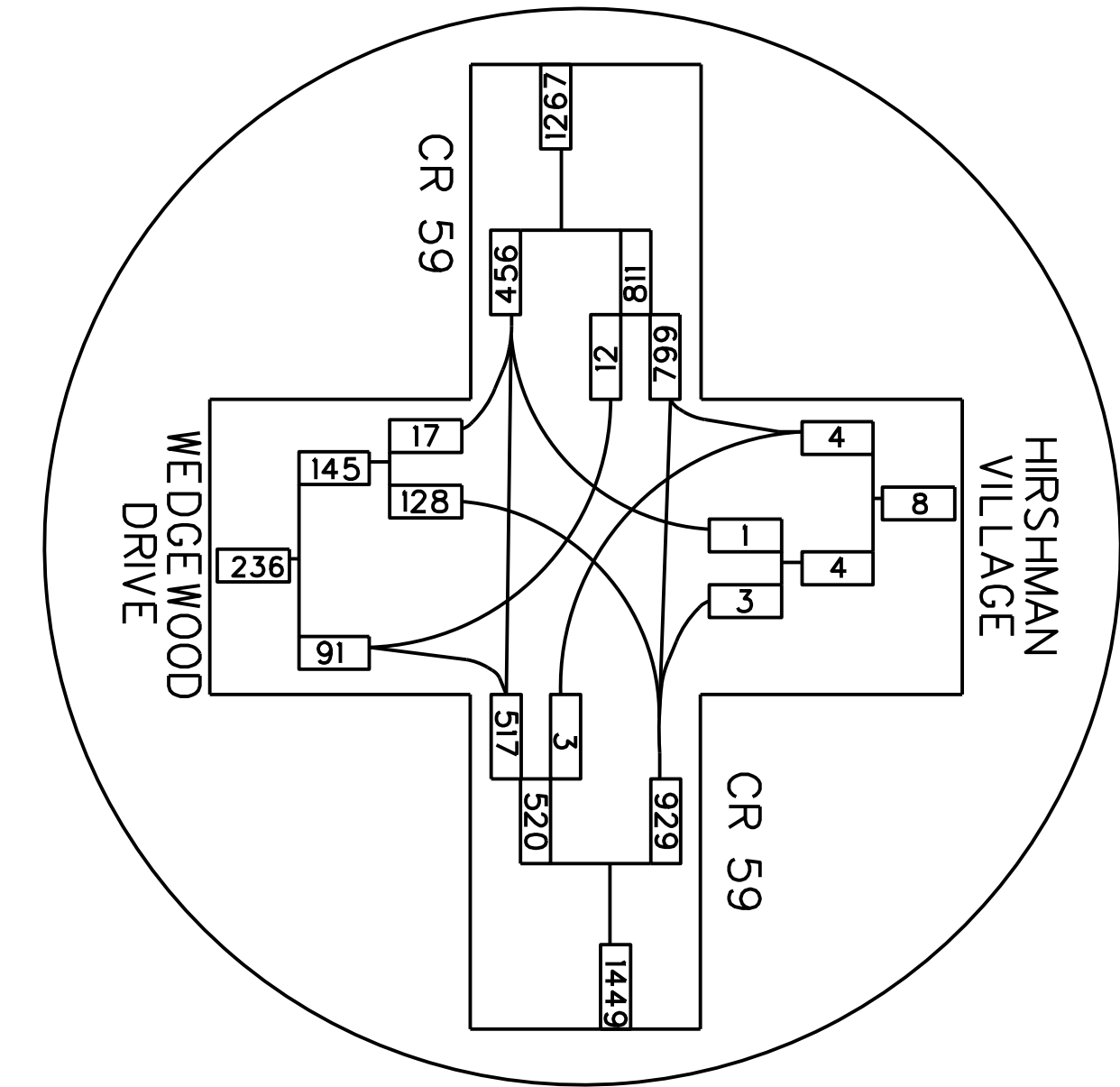
WEDGEWOOD DRIVE

VAN VOORHIS ROAD
CR 59



SEE DETAIL A & B

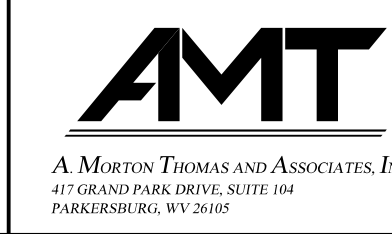
HIRSHMAN VILLAGE



DETAIL B
WEDGEWOOD DRIVE & CR 59
INTERSECTION
(PM PEAK)

CR 59
VAN VOORHIS ROAD

SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TRAFFIC SKETCH MAP
2040 PEAK HOUR VOLUMES

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W. V.	4	U331-59-00.00	NFA-2317 (0237D)	2020	MONONGALIA	169	301

PAVEMENT MARKINGS GENERAL NOTES

- ITEM 663001-026 EDGE LINE TYPE II SHALL INCLUDE 6" SOLID WHITE AND YELLOW EDGE LINE ON MAINLINE.
- ALL 6" SOLID WHITE OR SOLID YELLOW EDGE LINES, LANE LINES, CENTERLINES AND BARRIER LINES SHALL BE TYPE II PAVEMENT MARKING MATERIAL. SEE PAVEMENT MARKING PLAN SHEETS FOR DETAILS.
- EDGE LINES SHALL BE CENTERED 6" FROM PAVED SHOULDER OR LANE AS APPLICABLE.
- ALL MARKINGS SHALL BE CONTINUOUS AND CONSISTENT WITH EXISTING MARKINGS WHERE THEY JOIN.
- NO MARKINGS SHALL BE PLACED ON EXPANSION JOINTS ON STRUCTURES OR ON LONGITUDINAL CONSTRUCTION JOINTS UNLESS SO DIRECTED BY ENGINEER
- ALL MARKINGS SHALL BE PLACED 6" FROM LONGITUDINAL PAVING JOINTS OR AS SHOWN FOR PAVED SHOULDERS.

GOVERNMENT SPECIFICATIONS

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS STANDARD SPECIFICATIONS ROADS AND BRIDGES ADOPTED 2017, AS AMENDED BY THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS SUPPLEMENTAL SPECIFICATIONS, DATED JANUARY 1, 2020, THE CONTRACT DOCUMENTS AND THE CONTRACT PLANS ARE THE GOVERNING PROVISIONS APPLICABLE TO THIS PROJECT.

STANDARD DETAILS

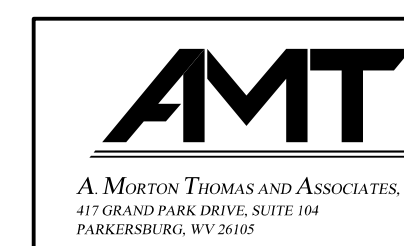
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS STANDARD DETAILS BOOK, VOLUME I, DATED MAY 2016 AND VOLUME II, DATED JANUARY 2019 SHALL APPLY TO THIS PROJECT. STANDARD DETAILS MAY BE FOUND ONLINE AT THE FOLLOWING URL:
[HTTP://TRANSPORTATION.WV.GOV/HIGHWAYS/ENGINEERING/PAGES/PUBLICATIONS.ASPX](http://TRANSPORTATION.WV.GOV/HIGHWAYS/ENGINEERING/PAGES/PUBLICATIONS.ASPX)

PAVEMENT MARKINGS SUMMARY OF QUANTITIES

PROJECT TOTAL			
PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
663001-026	EDGE LINE, TYPE II - 6 IN, WHITE	LF	9032
663002-026	LANE LINE, TYPE II - 6 IN, WHITE	LF	121
663002-040	CENTERLINE, TYPE II - 6 IN, YELLOW	LF	10040
663004-011	CHANNELIZING LINE, TYPE V - 8 IN	LF	615
663005-010	STOP LINE, TYPE V - 12 IN	LF	129
663005-011	STOP LINE, TYPE V - 24 IN	LF	31
663006-010	CROSSWALK LINE, TYPE V, 12 IN X 6 FT	LF	637
663007-001	ERADICATION OF PAVEMENT MARKING	LF	1028
663007-010	STRIPE, TYPE V, 12 IN, YELLOW	LF	251
663010-010	ONE DIRECTION LANE ASSIGNMENT ARROW, TYPE V	EA	10
663010-011	MULTI DIRECTIONAL LANE ASSIGNMENT ARROW, TYPE V	EA	2
663011-010	LANE LETTER, TYPE V	EA	12

PMN-1

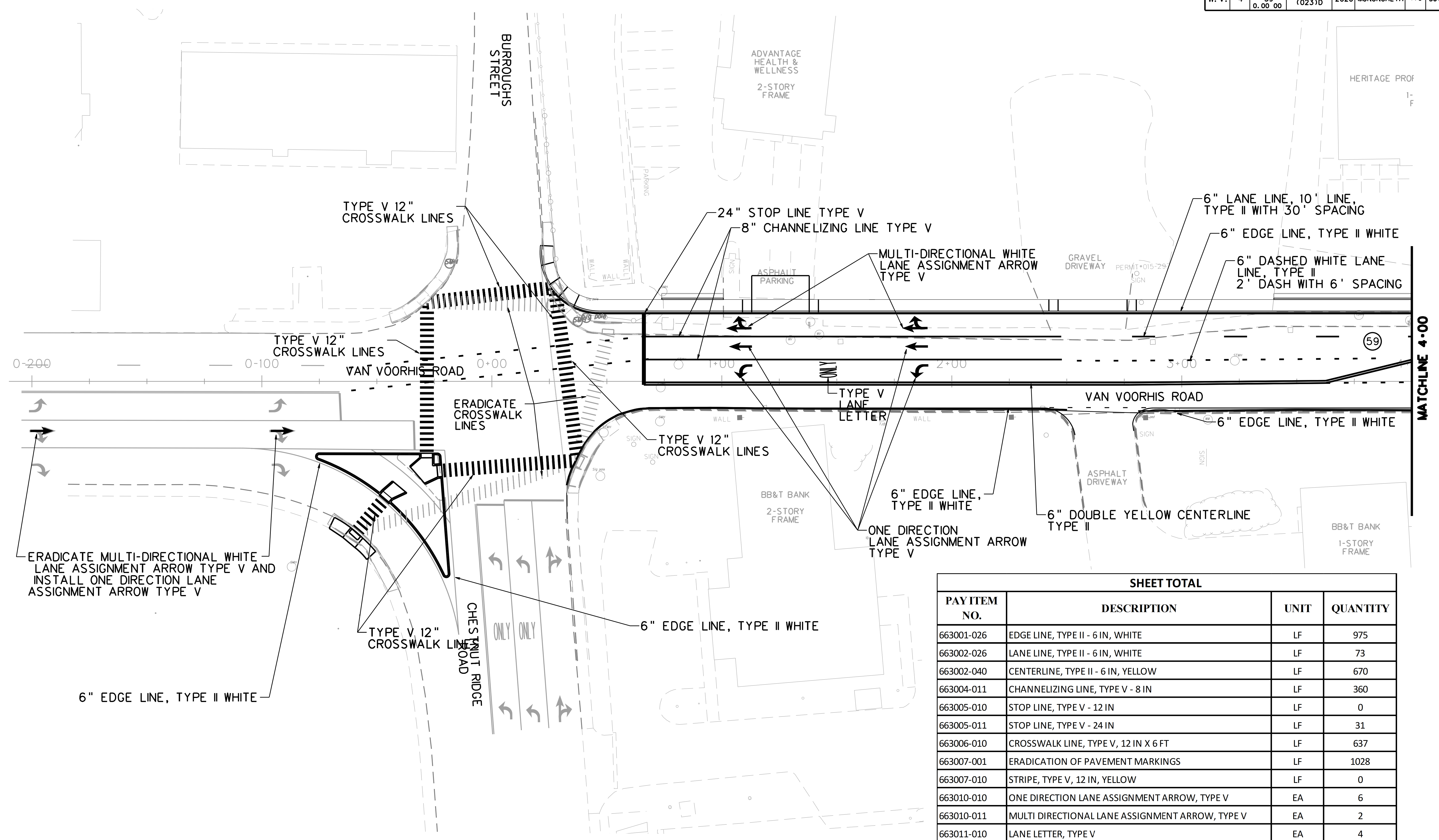
SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
PAVEMENT MARKING PLANS
GENERAL NOTES

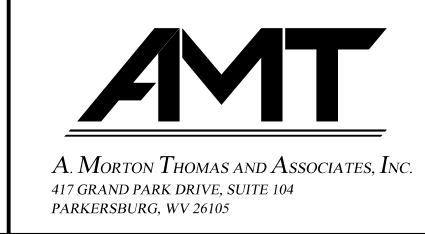
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	170	301



SHEET TOTAL			
PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
663001-026	EDGE LINE, TYPE II - 6 IN, WHITE	LF	975
663002-026	LANE LINE, TYPE II - 6 IN, WHITE	LF	73
663002-040	CENTERLINE, TYPE II - 6 IN, YELLOW	LF	670
663004-011	CHANNELIZING LINE, TYPE V - 8 IN	LF	360
663005-010	STOP LINE, TYPE V - 12 IN	LF	0
663005-011	STOP LINE, TYPE V - 24 IN	LF	31
663006-010	CROSSWALK LINE, TYPE V, 12 IN X 6 FT	LF	637
663007-001	ERADICATION OF PAVEMENT MARKINGS	LF	1028
663007-010	STRIPE, TYPE V, 12 IN, YELLOW	LF	0
663010-010	ONE DIRECTION LANE ASSIGNMENT ARROW, TYPE V	EA	6
663010-011	MULTI DIRECTIONAL LANE ASSIGNMENT ARROW, TYPE V	EA	2
663011-010	LANE LETTER, TYPE V	EA	4

SUBMITTED 6/29/2020

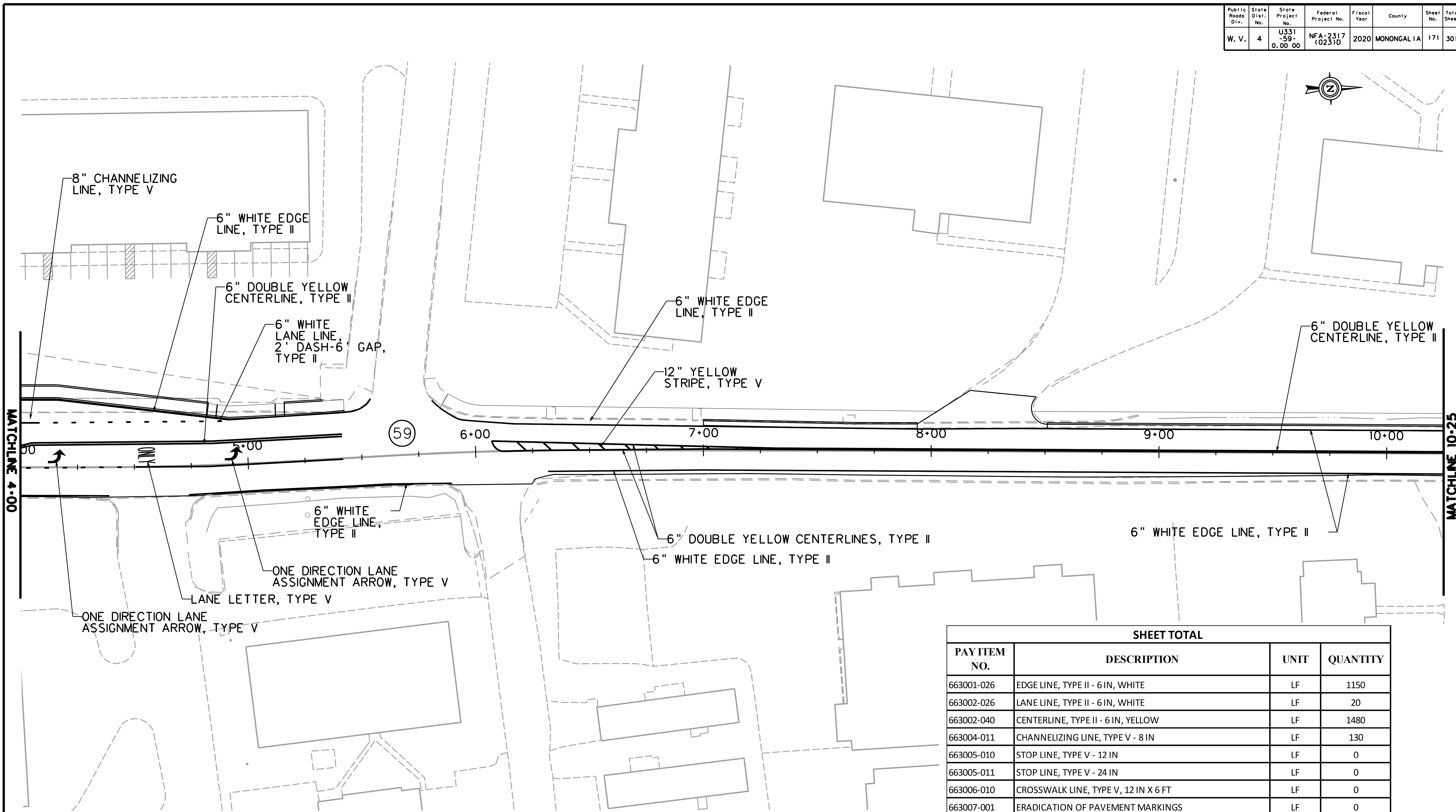
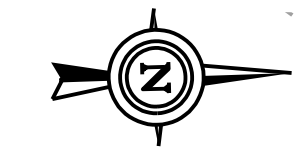
SCALE : 0 20 ft.



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PAVEMENT MARKING PLANS

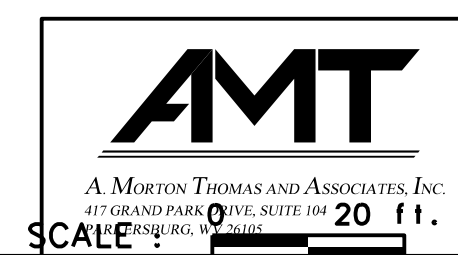
PM-1



SHEET TOTAL			
PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
663001-026	EDGE LINE, TYPE II - 6 IN, WHITE	LF	1150
663002-026	LANE LINE, TYPE II - 6 IN, WHITE	LF	20
663002-040	CENTERLINE, TYPE II - 6 IN, YELLOW	LF	1480
663004-011	CHANNELIZING LINE, TYPE V - 8 IN	LF	130
663005-010	STOP LINE, TYPE V - 12 IN	LF	0
663005-011	STOP LINE, TYPE V - 24 IN	LF	0
663006-010	CROSSWALK LINE, TYPE V, 12 IN X 6 FT	LF	0
663007-001	ERADICATION OF PAVEMENT MARKINGS	LF	0
663007-010	STRIPE, TYPE V, 12 IN, YELLOW	LF	30
663010-010	ONE DIRECTION LANE ASSIGNMENT ARROW, TYPE V	EA	2
663010-011	MULTI DIRECTIONAL LANE ASSIGNMENT ARROW, TYPE V	EA	0
663011-010	LANE LETTER, TYPE V	EA	4

PM-2

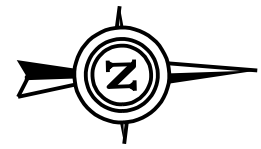
SUBMITTED 6/29/2020



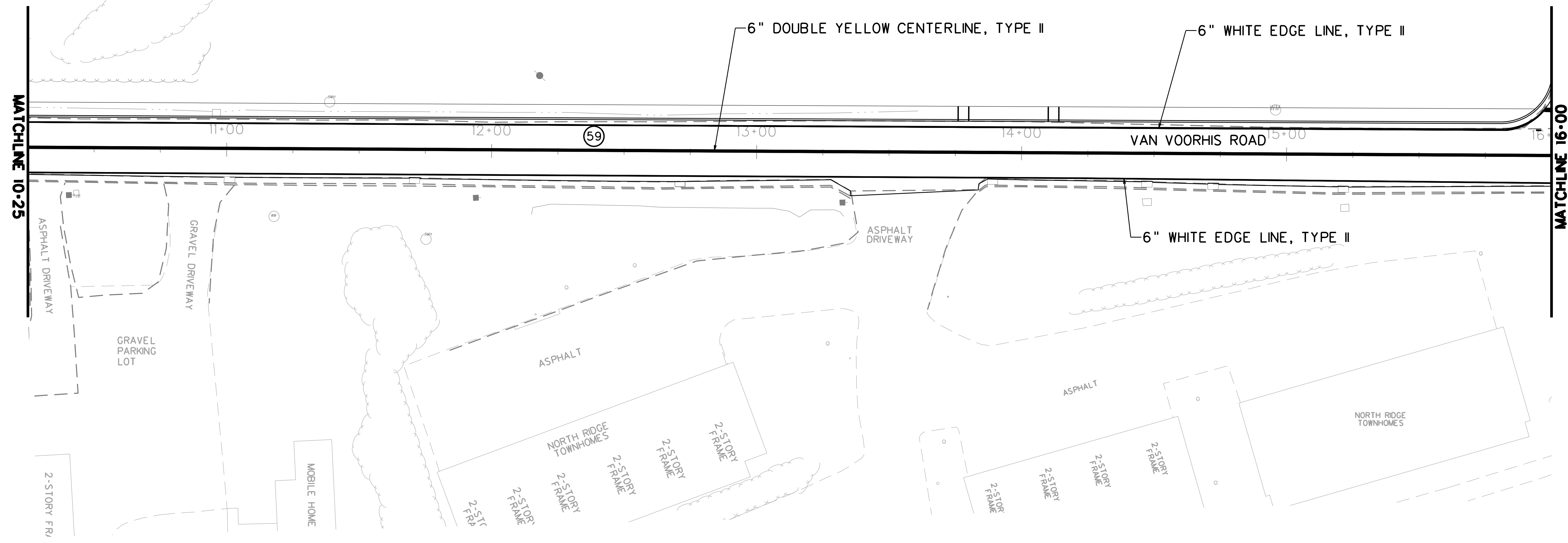
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PAVEMENT MARKING PLANS

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0237D)	2020	MONONGALIA	172	301



SHEET TOTAL			
PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
663001-026	EDGE LINE, TYPE II - 6 IN, WHITE	LF	1150
663002-026	LANE LINE, TYPE II - 6 IN, WHITE	LF	0
663002-040	CENTERLINE, TYPE II - 6 IN, YELLOW	LF	1150
663004-011	CHANNELIZING LINE, TYPE V - 8 IN	LF	0
663005-010	STOP LINE, TYPE V - 12 IN	LF	3
663005-011	STOP LINE, TYPE V - 24 IN	LF	0
663006-010	CROSSWALK LINE, TYPE V, 12 IN X 6 FT	LF	0
663007-001	ERADICATION OF PAVEMENT MARKINGS	LF	0
663007-010	STRIPE, TYPE V, 12 IN, YELLOW	LF	0
663010-010	ONE DIRECTION LANE ASSIGNMENT ARROW, TYPE V	EA	0
663010-011	MULTI DIRECTIONAL LANE ASSIGNMENT ARROW, TYPE V	EA	0
663011-010	LANE LETTER, TYPE V	EA	0

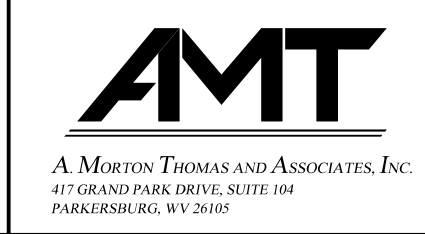


MATCHLINE 10-25

MATCHLINE 16-00

SUBMITTED 6/29/2020

SCALE : 0 = 20 ft.

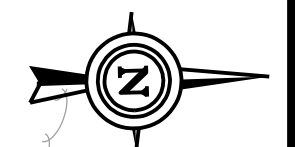


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

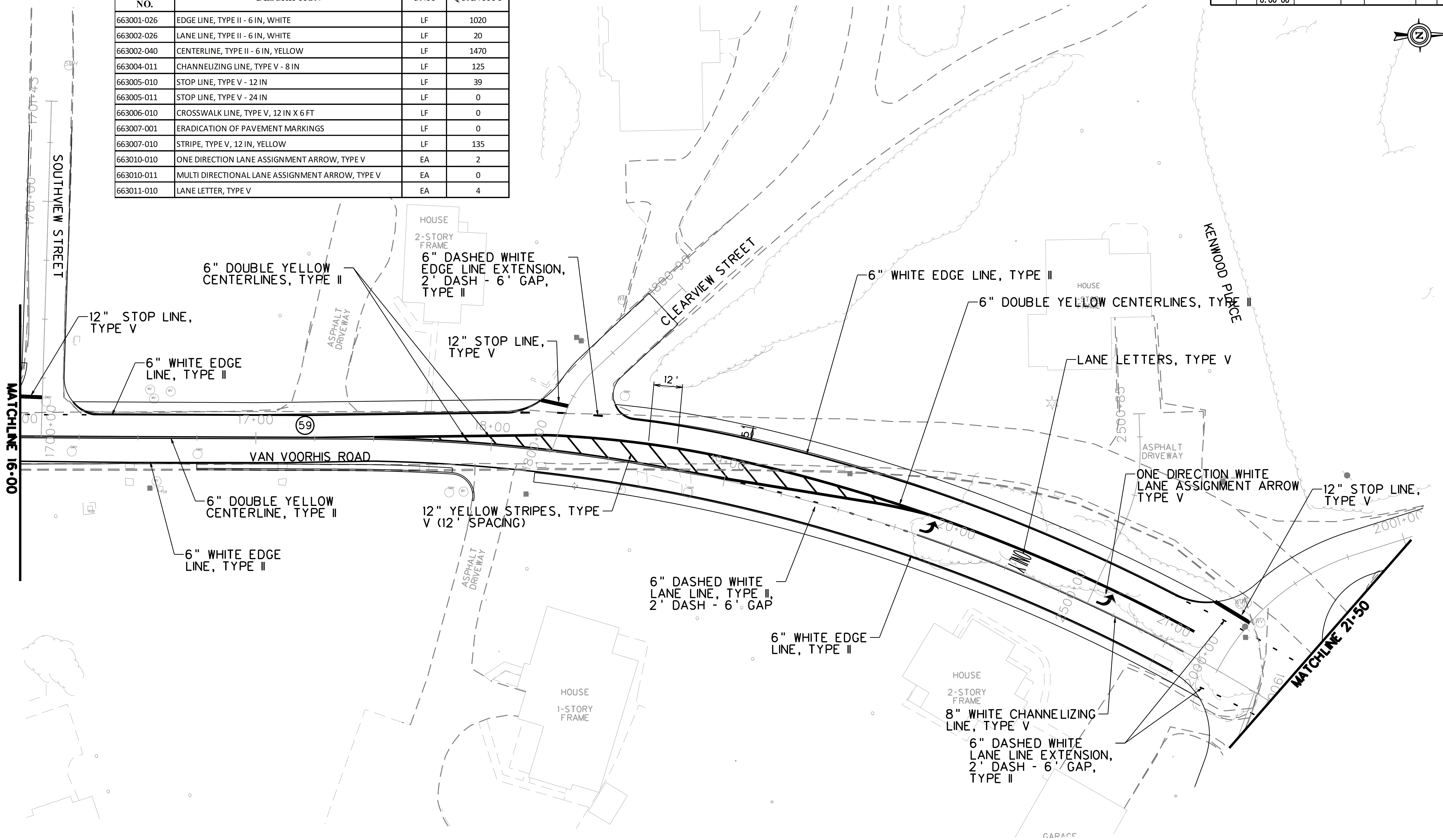
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PAVEMENT MARKING PLANS

PM-3

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	173	301

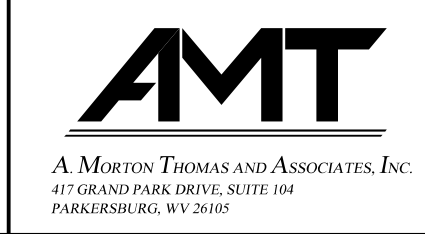


SHEET TOTAL			
PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
663001-026	EDGE LINE, TYPE II - 6 IN, WHITE	LF	1020
663002-026	LANE LINE, TYPE II - 6 IN, WHITE	LF	20
663002-040	CENTERLINE, TYPE II - 6 IN, YELLOW	LF	1470
663004-011	CHANNELIZING LINE, TYPE V - 8 IN	LF	125
663005-010	STOP LINE, TYPE V - 12 IN	LF	39
663005-011	STOP LINE, TYPE V - 24 IN	LF	0
663006-010	CROSSWALK LINE, TYPE V, 12 IN X 6 FT	LF	0
663007-001	ERADICATION OF PAVEMENT MARKINGS	LF	0
663007-010	STRIPE, TYPE V, 12 IN, YELLOW	LF	135
663010-010	ONE DIRECTION LANE ASSIGNMENT ARROW, TYPE V	EA	2
663010-011	MULTI DIRECTIONAL LANE ASSIGNMENT ARROW, TYPE V	EA	0
663011-010	LANE LETTER, TYPE V	EA	4



SUBMITTED 6/29/2020

SCALE : 0 20 ft.

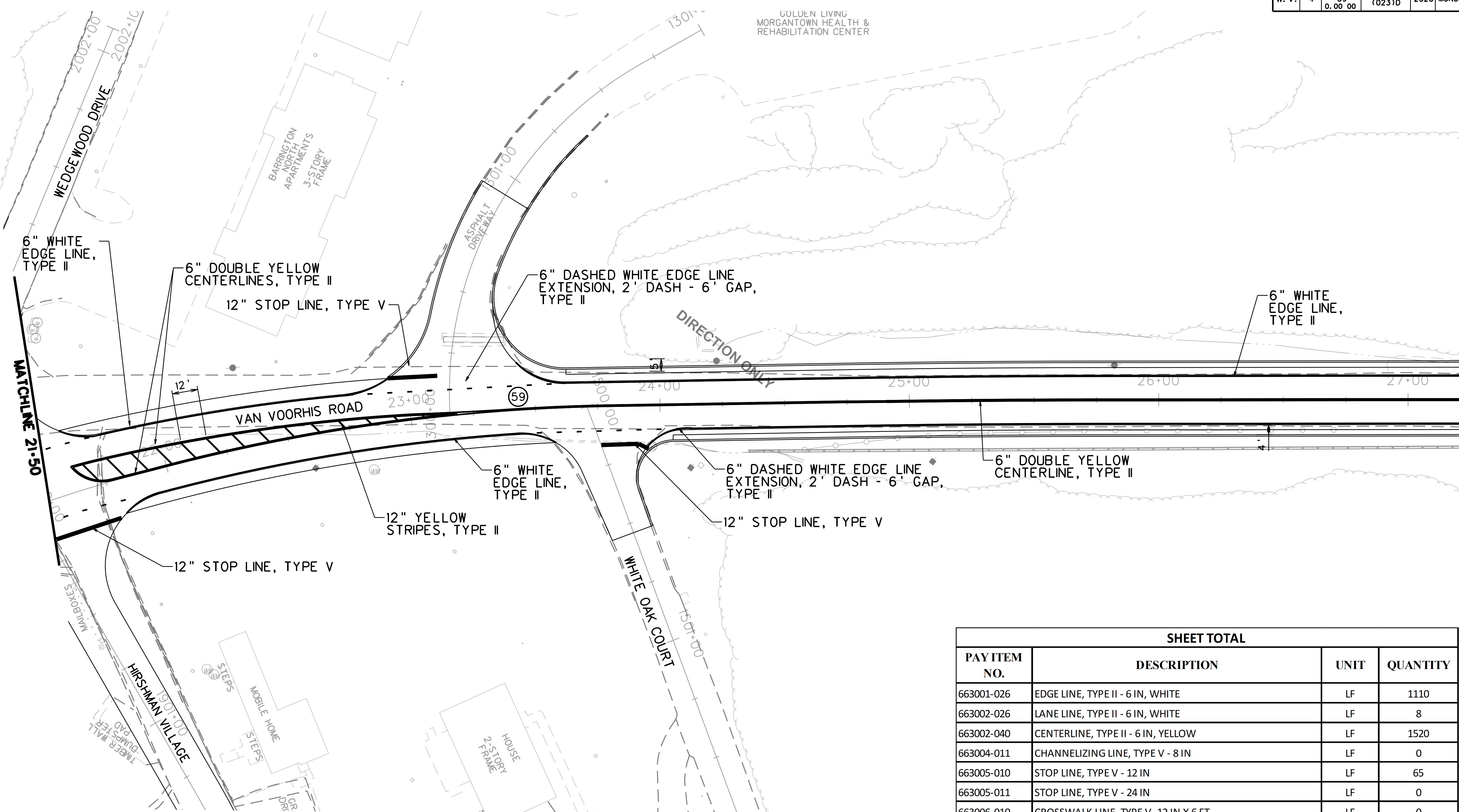
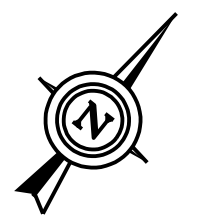


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PAVEMENT MARKING PLANS

PM-4

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	174	301

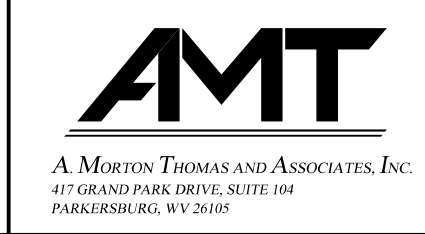


SHEET TOTAL			
PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
663001-026	EDGE LINE, TYPE II - 6 IN, WHITE	LF	1110
663002-026	LANE LINE, TYPE II - 6 IN, WHITE	LF	8
663002-040	CENTERLINE, TYPE II - 6 IN, YELLOW	LF	1520
663004-011	CHANNELIZING LINE, TYPE V - 8 IN	LF	0
663005-010	STOP LINE, TYPE V - 12 IN	LF	65
663005-011	STOP LINE, TYPE V - 24 IN	LF	0
663006-010	CROSSWALK LINE, TYPE V, 12 IN X 6 FT	LF	0
663007-001	ERADICATION OF PAVEMENT MARKINGS	LF	0
663007-010	STRIPE, TYPE V, 12 IN, YELLOW	LF	86
663010-010	ONE DIRECTION LANE ASSIGNMENT ARROW, TYPE V	EA	0
663010-011	MULTI DIRECTIONAL LANE ASSIGNMENT ARROW, TYPE V	EA	0
663011-010	LANE LETTER, TYPE V	EA	0

PM-5

SUBMITTED 6/29/2020

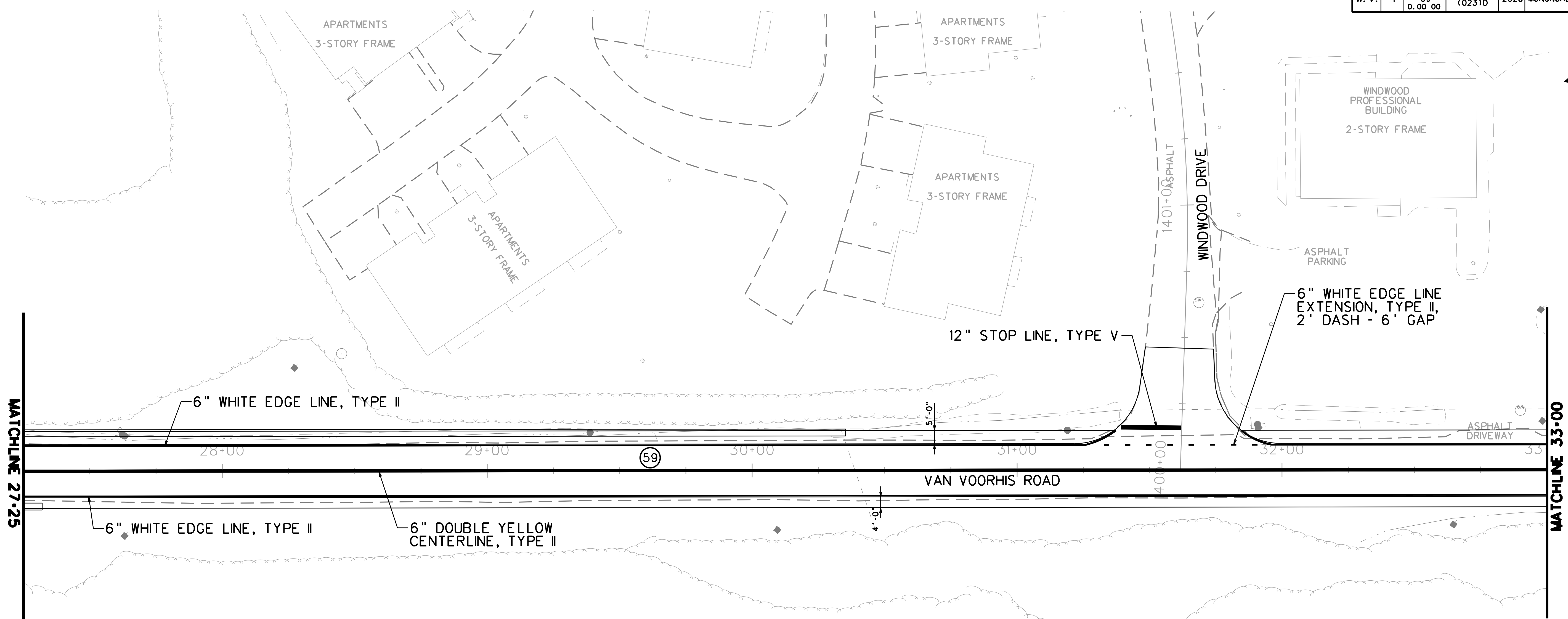
SCALE : 0 20 ft.



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PAVEMENT MARKING PLANS

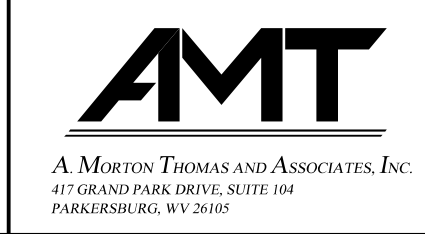
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	175	301



SHEET TOTAL			
PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
663001-026	EDGE LINE, TYPE II - 6 IN, WHITE	LF	1120
663002-026	LANE LINE, TYPE II - 6 IN, WHITE	LF	0
663002-040	CENTERLINE, TYPE II - 6 IN, YELLOW	LF	1150
663004-011	CHANNELIZING LINE, TYPE V - 8 IN	LF	0
663005-010	STOP LINE, TYPE V - 12 IN	LF	22
663005-011	STOP LINE, TYPE V - 24 IN	LF	0
663006-010	CROSSWALK LINE, TYPE V, 12 IN X 6 FT	LF	0
663007-001	ERADICATION OF PAVEMENT MARKINGS	LF	0
663007-010	STRIPE, TYPE V, 12 IN, YELLOW	LF	0
663010-010	ONE DIRECTION LANE ASSIGNMENT ARROW, TYPE V	EA	0
663010-011	MULTI DIRECTIONAL LANE ASSIGNMENT ARROW, TYPE V	EA	0
663011-010	LANE LETTER, TYPE V	EA	0

SUBMITTED 6/29/2020

SCALE : 0 20 ft.

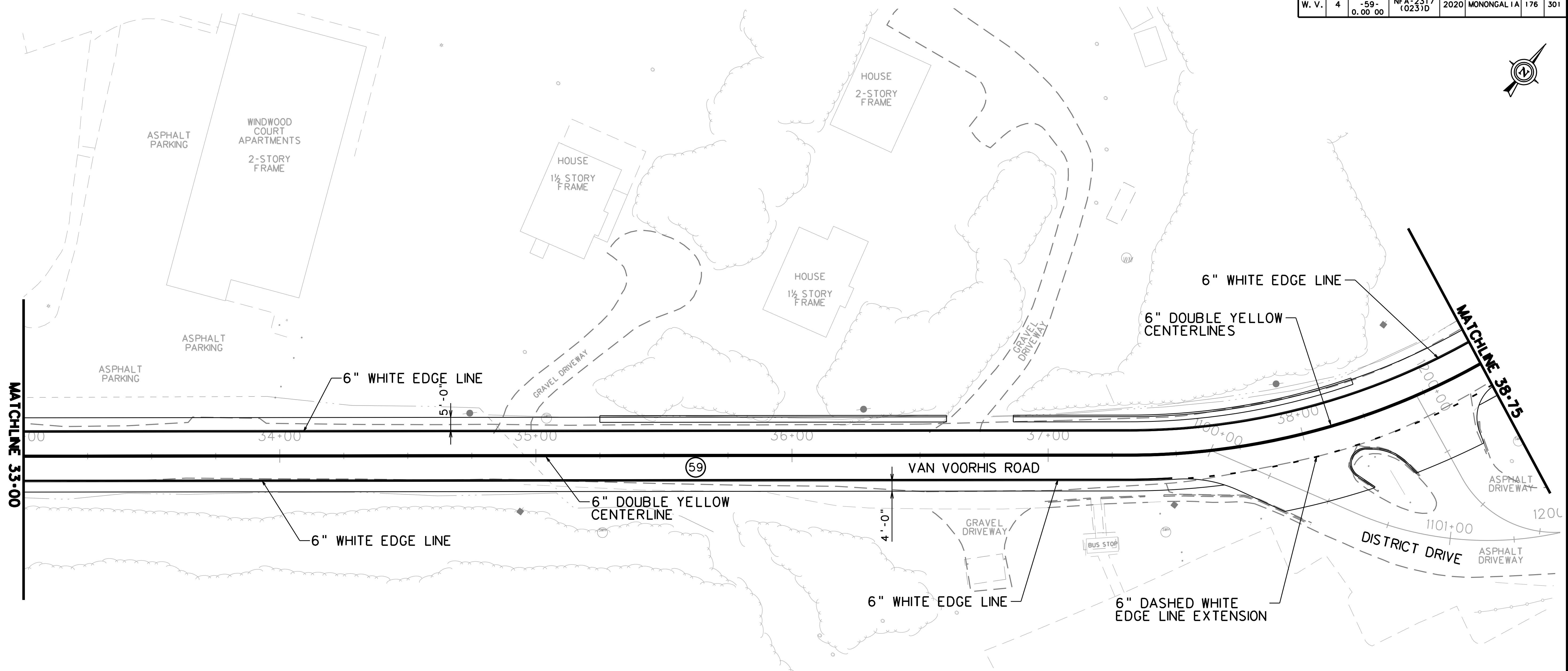
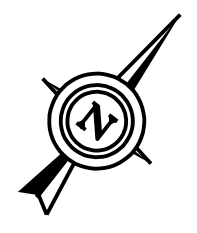


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PAVEMENT MARKING PLANS

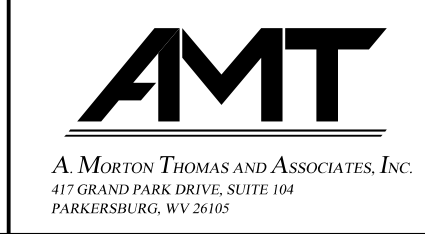
PM-6

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	176	301



SHEET TOTAL			
PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
663001-026	EDGE LINE, TYPE II - 6 IN, WHITE	LF	1057
663002-026	LANE LINE, TYPE II - 6 IN, WHITE	LF	0
663002-040	CENTERLINE, TYPE II - 6 IN, YELLOW	LF	1150
663004-011	CHANNELIZING LINE, TYPE V - 8 IN	LF	0
663005-010	STOP LINE, TYPE V - 12 IN	LF	29
663005-011	STOP LINE, TYPE V - 24 IN	LF	0
663006-010	CROSSWALK LINE, TYPE V, 12 IN X 6 FT	LF	0
663007-001	ERADICATION OF PAVEMENT MARKINGS	LF	0
663007-010	STRIPE, TYPE V, 12 IN, YELLOW	LF	0
663010-010	ONE DIRECTION LANE ASSIGNMENT ARROW, TYPE V	EA	0
663010-011	MULTI DIRECTIONAL LANE ASSIGNMENT ARROW, TYPE V	EA	0
663011-010	LANE LETTER, TYPE V	EA	0

SCALE : 0 20 ft.



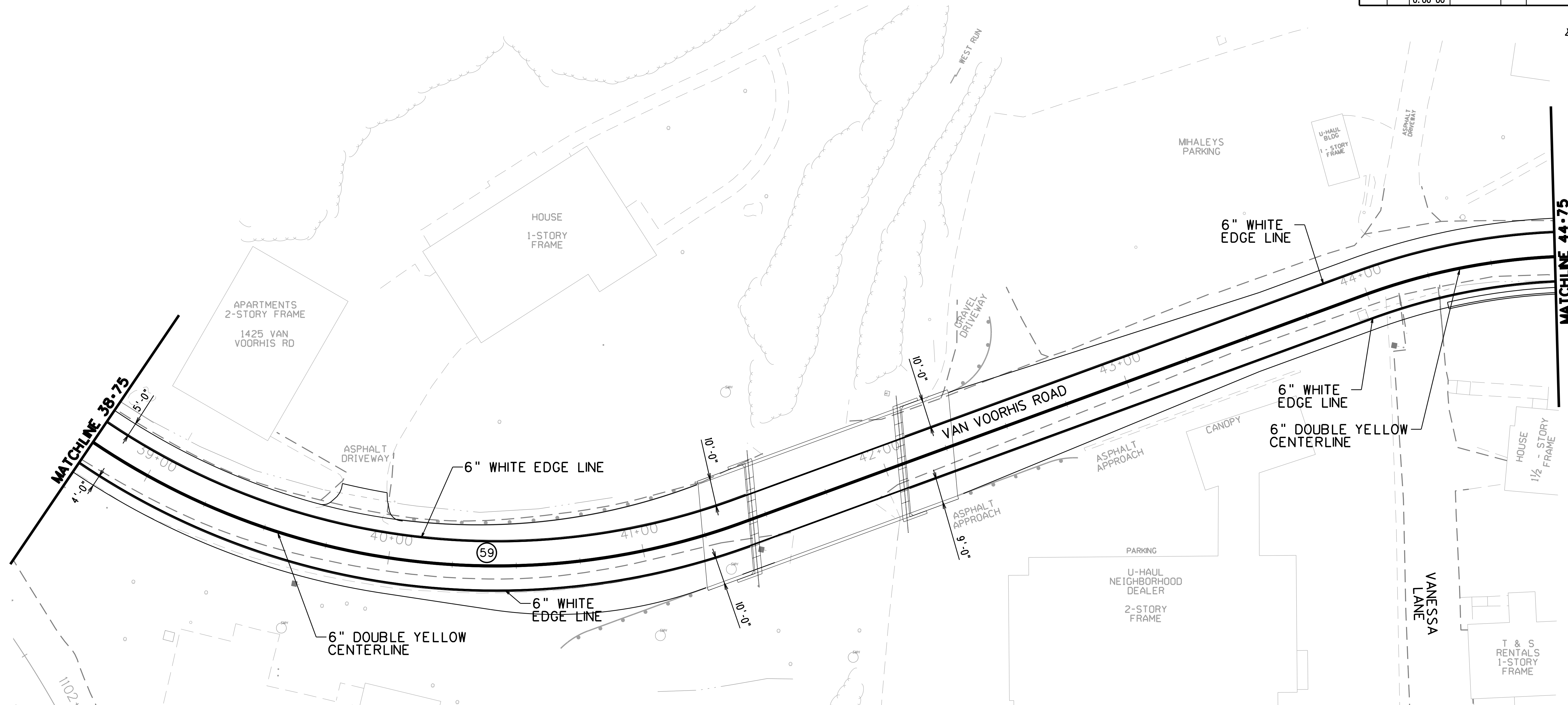
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PAVEMENT MARKING PLANS

PM-7

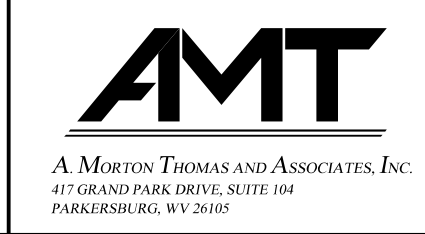
SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	177	301



SHEET TOTAL			
PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
663001-026	EDGE LINE, TYPE II - 6 IN, WHITE	LF	1200
663002-026	LANE LINE, TYPE II - 6 IN, WHITE	LF	0
663002-040	CENTERLINE, TYPE II - 6 IN, YELLOW	LF	1200
663004-011	CHANNELIZING LINE, TYPE V - 8 IN	LF	0
663005-010	STOP LINE, TYPE V - 12 IN	LF	0
663005-011	STOP LINE, TYPE V - 24 IN	LF	0
663006-010	CROSSWALK LINE, TYPE V, 12 IN X 6 FT	LF	0
663007-001	ERADICATION OF PAVEMENT MARKINGS	LF	0
663007-010	STRIPE, TYPE V, 12 IN, YELLOW	LF	0
663010-010	ONE DIRECTION LANE ASSIGNMENT ARROW, TYPE V	EA	0
663010-011	MULTI DIRECTIONAL LANE ASSIGNMENT ARROW, TYPE V	EA	0
663011-010	LANE LETTER, TYPE V	EA	0

SCALE : 0 20 ft.



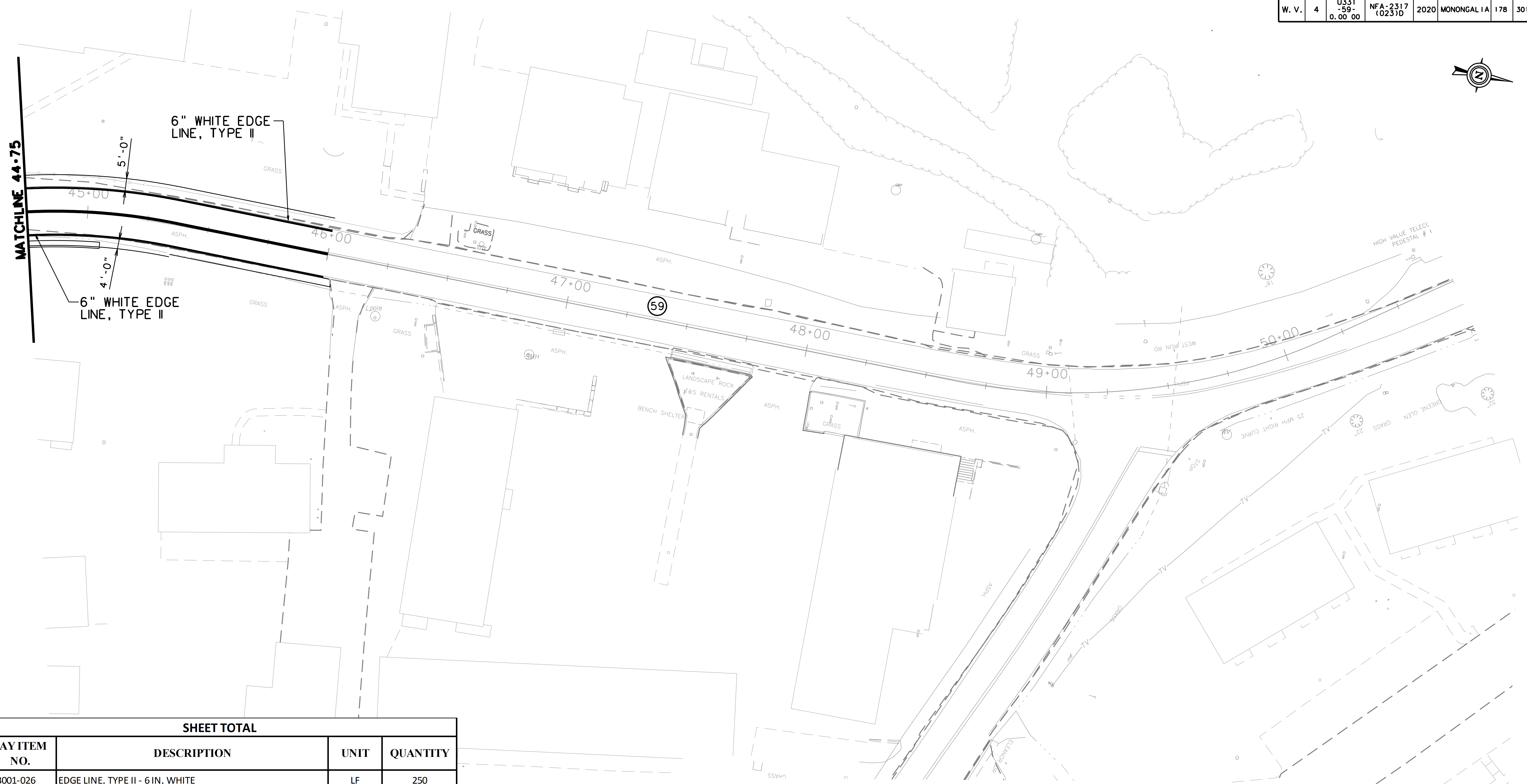
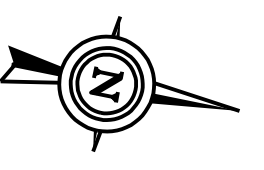
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PAVEMENT MARKING PLANS

PM-8

SUBMITTED 6/29/2020

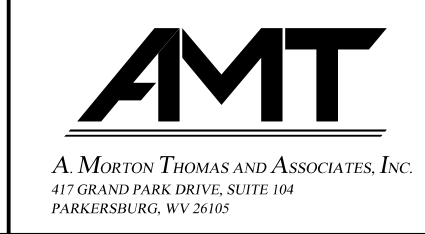
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	178	301



SHEET TOTAL			
PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
663001-026	EDGE LINE, TYPE II - 6 IN, WHITE	LF	250
663002-026	LANE LINE, TYPE II - 6 IN, WHITE	LF	0
663002-040	CENTERLINE, TYPE II - 6 IN, YELLOW	LF	250
663004-011	CHANNELIZING LINE, TYPE V - 8 IN	LF	0
663005-010	STOP LINE, TYPE V - 12 IN	LF	0
663005-011	STOP LINE, TYPE V - 24 IN	LF	0
663006-010	CROSSWALK LINE, TYPE V, 12 IN X 6 FT	LF	0
663007-001	ERADICATION OF PAVEMENT MARKINGS	LF	0
663007-010	STRIPE, TYPE V, 12 IN, YELLOW	LF	0
663010-010	ONE DIRECTION LANE ASSIGNMENT ARROW, TYPE V	EA	0
663010-011	MULTI DIRECTIONAL LANE ASSIGNMENT ARROW, TYPE V	EA	0

SUBMITTED 6/29/2020

SCALE : 0 20 ft.



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

PM-9

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PAVEMENT MARKING PLANS

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-00.00 00	NFA-2317 (0231D)	2020	MONONGALIA	179	301

SIGNING GENERAL NOTES

SIGNING NOTES

GOVERNING SPECIFICATIONS

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, STANDARD SPECIFICATIONS, ROADS AND BRIDGES, ADOPTED 2017, THE JAN 1, 2020 SUPPLEMENTAL SPECIFICATIONS, THE CONTRACT DOCUMENTS, AND THE CONTRACT PLANS ARE THE GOVERNING PROVISIONS APPLICABLE TO THIS PROJECT.

STANDARD DETAILS

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, STANDARD DETAILS BOOK, VOLUME I, DATED MAY 2016 AND VOLUME II, DATED JANUARY 2019 SHALL APPLY TO THIS PROJECT. STANDARD DETAILS MAY BE FOUND ONLINE AT THE FOLLOWING URL: [HTTP://TRANSPORTATION.WV.GOV/HIGHWAYS/ENGINEERING/PAGES/PUBLICATIONS.ASPX](http://TRANSPORTATION.WV.GOV/HIGHWAYS/ENGINEERING/PAGES/PUBLICATIONS.ASPX)

CONSTRUCTION LAYOUT STAKES

CONSTRUCTION LAYOUT STAKES FOR ALL WORK IS INCIDENTAL TO THE CONTRACT AMOUNT BID AND INCLUDED IN THE VARIOUS SIGNING ITEMS.

CORNERS

CORNERS OF ALL SHEET ALUMINUM SIGNS SHALL BE ROUNDED; HOWEVER, CORNERS OF EXTRUDED ALUMINUM SIGN PANELS SHALL NOT BE ROUNDED. FABRICATED SIGNS WITH DIRECT APPLIED COPY (BLUE, GREEN, OR BROWN BACKGROUND) SHALL HAVE A 1 1/2" CORNER RADIUS ON THE ALUMINUM BLANK.

BOLT TIGHTENING

A CALIBRATED DEVICE ACCEPTABLE TO THE ENGINEER SHALL BE PROVIDED BY THE CONTRACTOR TO INSURE THE STIPULATED TORQUE AND/OR TENSION THAT IS SET FORTH BY THE PLANS.

REFLECTIVE SHEETING

BACKGROUND MATERIAL (WHITE, ASTM GREEN, BLUE, BROWN, RED) FOR SIGNS IN THIS PROJECT SHALL BE REFLECTIVE SHEETING, TYPE ASTM IV. TYPE ASTM XI FLUORESCENT YELLOW SHEETING SHALL BE USED ON ALL STANDARD WARNING SIGNS INSTALLED IN THIS PROJECT EXCEPT WHERE NOTED. IN ADDITION, TYPE ASTM XI FLUORESCENT YELLOW SHEETING SHALL BE USED ON ALL YELLOW EXTRUDED PANELS.

ALL DEMOUNTABLE WHITE LEGEND AND BORDER, AND DEMOUNTABLE SHIELDS FOR GUIDE SIGNS SHALL BE TYPE ASTM XI SHEETING. ALL SHEETING USED IN THIS PROJECT MUST HAVE SUCCESSFULLY COMPLETED 3 YEARS IN THE AASHTO/NTPEP OUTDOOR REFLECTIVE SHEETING PERFORMANCE TESTING PROGRAM.

DEMOUNTABLE COPY AND BORDERS

DEMOUNTABLE COPY AND BORDERS SHALL NOT BE POSITIONED ON ANY SIGN FACE BY MEANS OF TAPE OR GLUE. ALL DEMOUNTABLE COPY AND BORDERS SHALL BE ATTACHED TO THE SIGN FACE USING APPROVED RIVETS ONLY.

RIVETS USED FOR ATTACHING BLACK DEMOUNTABLE COPY AND BORDERS SHALL BE BLACK AND RIVETS USED FOR ATTACHING WHITE DEMOUNTABLE COPY AND BORDERS SHALL BE SILVER.

DEMOUNTABLE COPY USED IN THIS PROJECT SHALL BE FABRICATED FROM 0.080 INCH THICK ALUMINUM SHEETS CONFORMING TO ASTM B 209 ALLOY 6061-T6 OR 5052-H38 MEETING THE REQUIREMENTS OF SECTION 661

SIGN FABRICATION

ALL SIGNS SHALL BE FABRICATED IN ACCORDANCE WITH THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS "SIGN FABRICATION MANUAL", "DESIGN GUIDE FOR SIGNING", "STANDARD SPECIFICATIONS ROADS AND BRIDGES", LATEST EDITIONS.

SIGN PUNCHING

SIGNS 60" OR MORE IN HEIGHT SHALL HAVE THREE RIBS. THE THIRD RIB SHALL BE MOUNTED ALONG THE HORIZONTAL CENTERLINE. A THIRD SET OF HOLES SHALL BE PUNCHED ON THESE SIGNS ALONG THE HORIZONTAL CENTERLINE AND IN LINE WITH THE OTHER SET OF HOLES.

WHERE NOTED IN THE CONTRACT PLANS, SIGNS SHALL BE PUNCHED IN ACCORDANCE WITH THE SPECIAL DETAILS INCLUDED IN THE CONTRACT PLANS.

REFLECTIVE SIGN SUPPORT STRIPS

REFLECTIVE SIGN SUPPORT STRIPS SHALL BE AS SHOWN ON THE CONTRACT PLANS. NORMAL INSERT SIZE SHALL BE 3"x72", ALTHOUGH SHORTER LENGTHS MAY BE CONSIDERED FOR USE WITH DELINEATION.

REFLECTIVE SIGN SUPPORTS MOUNTED IN NEW OR EXISTING U-CHANNELS SHALL BE BID AS ITEM 661003-001 (2 SQUARE FEET PER STRIP). FOR SIGN SUPPORTS WITH REFLECTIVE STRIPS SEE SHEET DEL-2 OF THE CONTRACT PLANS.

EXISTING SIGNS NOT TO BE DISTURBED

EXISTING SIGNS NOT SHOWN IN THE PLANS SHALL NOT BE DISTURBED.

UTILITY COORDINATION

THE CONTRACTOR MUST NOTIFY ALL APPLICABLE UTILITIES PRIOR TO ANY EXCAVATION FOR EXACT LOCATION OF THEIR UNDERGROUND FACILITIES. EXTREME CAUTION SHALL BE USED IN THESE AREAS ESPECIALLY IN EXCAVATING FOR FOUNDATIONS AND THE JACKING OF CONDUIT. IF NECESSARY THE CONTRACTOR SHALL HAND DIG TO LOCATE LINES OR SHALL OPEN CUT IN AREAS OF POSSIBLE CONFLICT. THOSE AREAS SHALL BE DETERMINED BY THE PROJECT ENGINEER. CONTACT "MISS UTILITY" PRIOR TO ANY EXCAVATING.

ALL COSTS ASSOCIATED WITH ANY DISRUPTION OF SERVICES RESULTING FROM THE CONTRACTOR'S ACTIVITIES WILL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND LOCATE ALL EXISTING UTILITIES, INCLUDING WVDOT OWNED CONDUITS, TO AVOID ANY CONFLICT OR DAMAGES DURING CONSTRUCTION. THIS WORK SHALL BE BID INCIDENTAL TO VARIOUS PROJECT ITEMS.

IDENTIFICATION CODES AND DECALS

AN IDENTIFICATION CODE SHALL BE PLACED ON ALL SIGNS WITH SCREENED MESSAGES THAT ARE MANUFACTURED FOR THE DIVISION OF HIGHWAYS. THE CODE SHALL CONSIST OF THE LETTERS 'WVDH' WITH AN ABBREVIATED FORM OF MONTH AND YEAR OF FABRICATION DIRECTLY BELOW. IT SHALL ALSO INCLUDE AN ABBREVIATED NAME OF THE SHEETING MANUFACTURER AND THE INK MANUFACTURER. EXAMPLE:
WVDH 3M
8/14 A

EACH LINE OF LETTERS OR NUMERALS SHALL BE 1/4 INCH HIGH, NO GREATER THAN ONE INCH IN LENGTH AND OF THE SAME COLOR AS THAT BEING SCREENED. THE CODE SHALL BE PLACED ON THE LOWER RIGHT HAND EDGE OF THE SIGN. IF THE SIGN HAS BOTH BORDER AND MARGIN, THE IDENTIFICATION CODE SHALL BE WITHIN THE BORDER, BUT MAY EXTEND INTO THE MARGIN AND/OR SIGN AREA. IF THE SIGN HAS BORDER ONLY, THE CODE SHALL BE WITHIN THE BORDER, BUT MAY EXTEND INTO THE SIGN AREA.

A SIGN IDENTIFICATION DECAL SHALL BE APPLIED TO THE LOWER RIGHT HAND CORNER (FACING BACK OF SIGN) OF ALL FLAT SHEET SIGNS STATING THE MONTH AND YEAR OF INSTALLATION. EXTRUDED PANEL SIGNS AND FABRICATED FLAT SHEET SIGNS WITH DIRECT APPLIED COPY SHALL HAVE TWO SEPARATE DECALS APPLIED TO THE LOWER RIGHT HAND CORNER (FACING BACK OF SIGN), ONE STATING THE MONTH AND YEAR OF INSTALLATION AND THE OTHER STATING THE MANUFACTURER OF THE SHEETING. SEE SHEET MD-1 FOR DECAL DETAILS.

HARDWARE

ON ALL FLAT SHEET SIGNS THE MOUNTING HARDWARE SHALL BE OF A VANDAL-RESISTANT DESIGN. THE FABRICATOR SHALL SUPPLY FIVE (5) PIECES OF MATERIAL TO THE DIVISION OF HIGHWAYS FOR TESTING PRIOR TO THE MANUFACTURE OF SIGNS. THE DIVISION OF HIGHWAYS ALSO RESERVES THE RIGHT TO RANDOM TEST THIS MATERIAL AFTER SHIPMENT TO THE PROJECT.

BOLT: 5/16" X 3" X 18. BOLT HEAD TO BE ROUND, DOME WITH ONE-WAY SLOT. BOLT SHALL HAVE A 2 INCH MINIMUM THREAD AND BE MANUFACTURED OF STEEL IN ACCORDANCE WITH ASTM A-307.

NUT: CONE SHAPED WITH HEX SHAPED DRIVE HEAD DESIGNED TO SHEAR OFF AT A PREDETERMINED TORQUE OF NO LESS THAN 4 FT/LBS AND NO GREATER THAN 8 FT/LBS WHEN USING MATERIALS, CONTROLS, SOILS AND TESTING MP NO. 661.20.00. NUT SHALL BE MANUFACTURED OF STEEL IN ACCORDANCE WITH ASTM A-563, GRADE A.

COATING ON BOTH NUT AND BOLT SHALL BE IN ACCORDANCE WITH ASTM B-766, CLASS 8, TYPE 2 (CADMIUM DICHROMATE). THREAD FIT ON NUT AND BOLT SHALL ALLOW WORKERS TO ASSEMBLE HARDWARE WITH THEIR FINGERS BEFORE TIGHTENING.

EXTRUDED RIBS

EACH FLAT SHEET SIGN ATTACHED TO BREAKAWAY SUPPORTS SHALL HAVE TWO EXTRUDED RIBS PER STANDARD DETAIL TP-A REGARDLESS OF SIGN SIZE, SHAPE, OR NUMBER OF SIGNS IN THE SIGN ASSEMBLY.

POST CLIPS

ALL POST CLIPS SHALL BE PROVIDED WITH A STAINLESS STEEL BOLT WHICH SHALL CONFORM TO STAINLESS STEEL ALLOY 304, ASTM A 193, GRADE B8 OR ASTM A 194, GRADE 8. POST CLIP BOLTS SHALL CONFORM TO THE DIMENSIONS SHOWN ON STANDARD DETAIL TE7-1. HEX LOCK NUTS SHALL CONFORM TO STAINLESS STEEL ALLOY 303, ASTM A 193, GRADE B 8F OR ASTM A 194, GRADE 8F. POST CLIP WASHERS SHALL CONFORM TO STAINLESS STEEL ALLOY 302, ASTM A276. WASHER DIMENSIONS ARE 3/4" DIA. X .062" WITH .406" DIA. HOLE.

SIGN LOCATIONS

ALL SIGN LOCATIONS (EXISTING OR PROPOSED) ARE APPROXIMATE. WHERE EXISTING SIGNS AND U-CHANNEL SUPPORTS ARE SHOWN TO BE REMOVED AND NEW ERECTED AT THE SAME LOCATION, THE NEW SIGN SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE ORIGINAL LOCATION.

WHERE EXISTING BREAKAWAY SUPPORTS ARE SHOWN TO BE REMOVED AND NEW BREAKAWAY SUPPORTS INSTALLED AT THE SAME LOCATION, THE NEW BREAKAWAY SUPPORTS MAY BE LOCATED UP TO 10 FEET UP STATION OR DOWN STATION FROM THE EXISTING SO AS NOT TO CONFLICT WITH EXISTING FOUNDATIONS.

HORIZONTAL OFFSET FROM EDGE OF PAVEMENT

ALL SIGNS IN THIS PROJECT SHALL BE MOUNTED IN ACCORDANCE WITH STANDARD DETAIL TP3-1. ALL SIGNS SHALL BE A MINIMUM OF 6' FROM EDGE OF PAVED SHOULDER WHEN NO GUARDRAIL IS PRESENT. WHERE GUARDRAIL IS PRESENT SIGNS SHALL BE MOUNTED A MINIMUM OF 2' FROM THE FACE OF THE GUARDRAIL.

WHERE POSSIBLE NEW SIGN SUPPORTS SHALL NOT BE PLACED WITHIN DITCH BOTTOMS AND LOCATIONS SHALL BE REVISED AS DIRECTED BY THE ENGINEER.

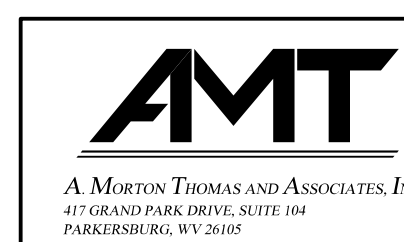
U-CHANNEL BREAKAWAY SPLICE CONNECTION

THE CONTRACTOR SHALL INSTALL THE POST USING A BREAKAWAY SPLICE CONNECTION SYSTEM AT THE GROUND LEVEL. THE SYSTEM SHALL BE PROVIDED BY THE MANUFACTURER OF THE U-CHANNEL AND THE SYSTEM SHALL BE NCHRP-350 APPROVED FOR INSTALLATIONS AS DESCRIBED IN NCHRP-350 "STANDARD" SOIL. THE COST OF THE REQUIRED BREAKAWAY SYSTEM SHALL BE INCIDENTAL TO THE U-CHANNEL SIGN SUPPORT ITEM.

SUMMARY OF QUANTITIES			
ITEM NUMBER	DESCRIPTION	UNIT	TOTAL
657008-001	2.00 LB CHANNEL POST	LF	48
657010-001	3.00 LB CHANNEL POST	LF	915
657018-001	SUPPORT OR BRACKET REMOVAL	EA	15
658001-001	CLASS B CONCRETE FOOTING, REINFORCED, OVERHEAD	CY	3.5
658010-001	OVERHEAD SIGN SUPPORT, SINGLE ARM CANTILEVER (LIGHT)	EA	1
661001-001	0.080 IN FLAT SHEET SIGN	SF	535
661003-001	REFLECTIVE SIGN SUPPORT STRIP	EA	14
661011-001	INSTALLATION OF REUSABLE SIGN	EA	16

* QUANTITIES INCLUDE EMERGENCY DETOUR SIGNING

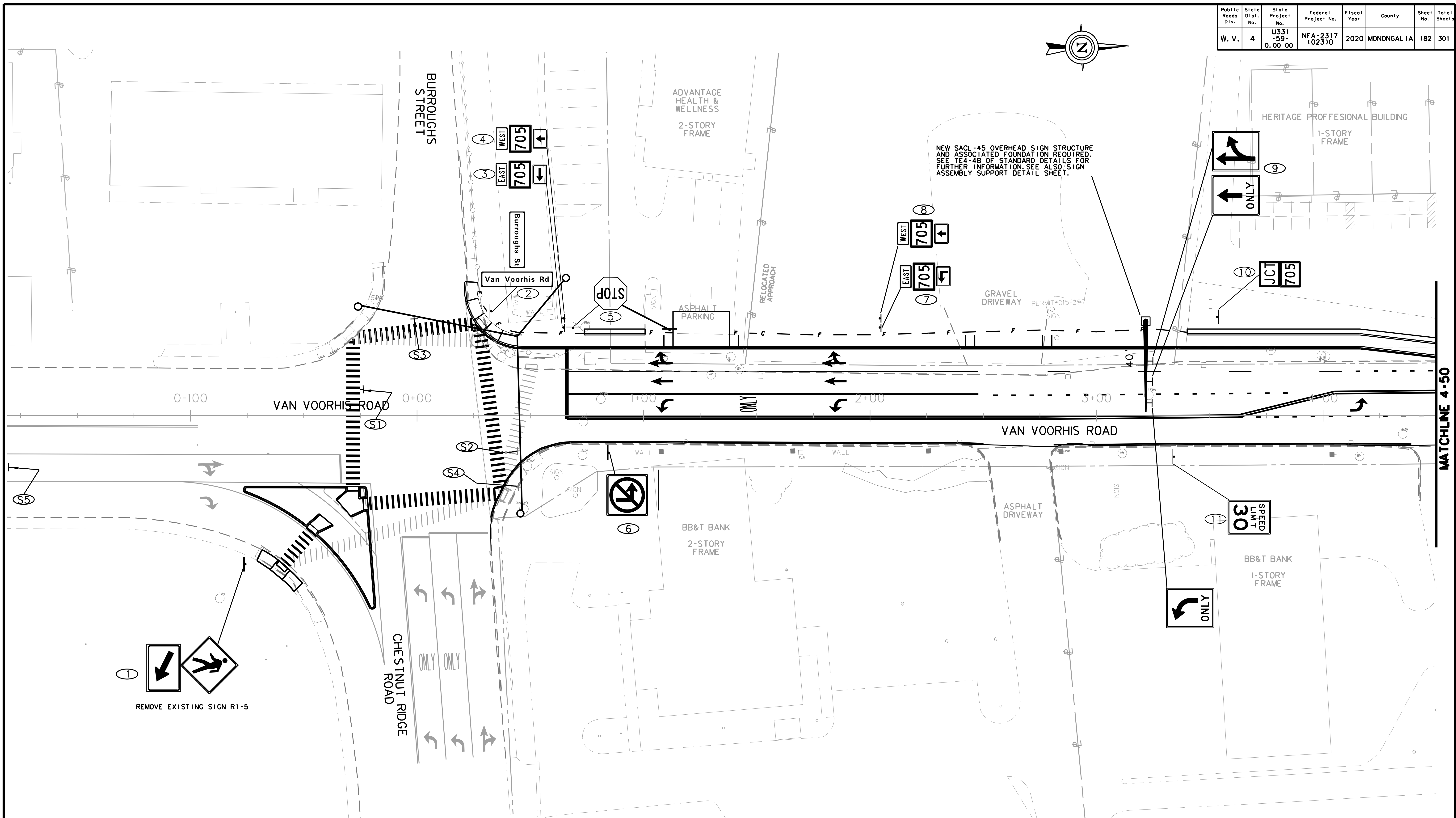
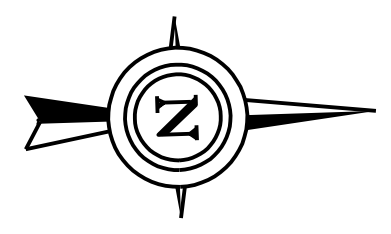
SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SIGNING PLANS
GENERAL NOTES

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00-00	NFA-2317 (023)D	2020	MONONGALIA	182	301

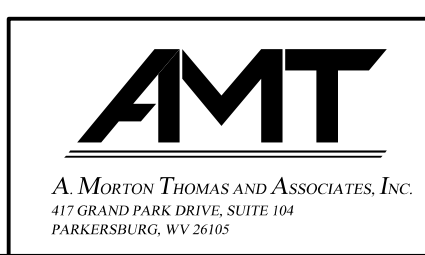


REMOVE EXISTING SIGN R1-5

- EXISTING SIGN TO REMAIN IN PLACE (STR)
- NEW SUPPORTS
- EXISTING SUPPORTS TO REMAIN IN PLACE
- EXISTING SIGNS AND/OR SUPPORTS TO BE REMOVED (R&D)

SCALE : 0 20 ft.

SUBMITTED 6/29/2020



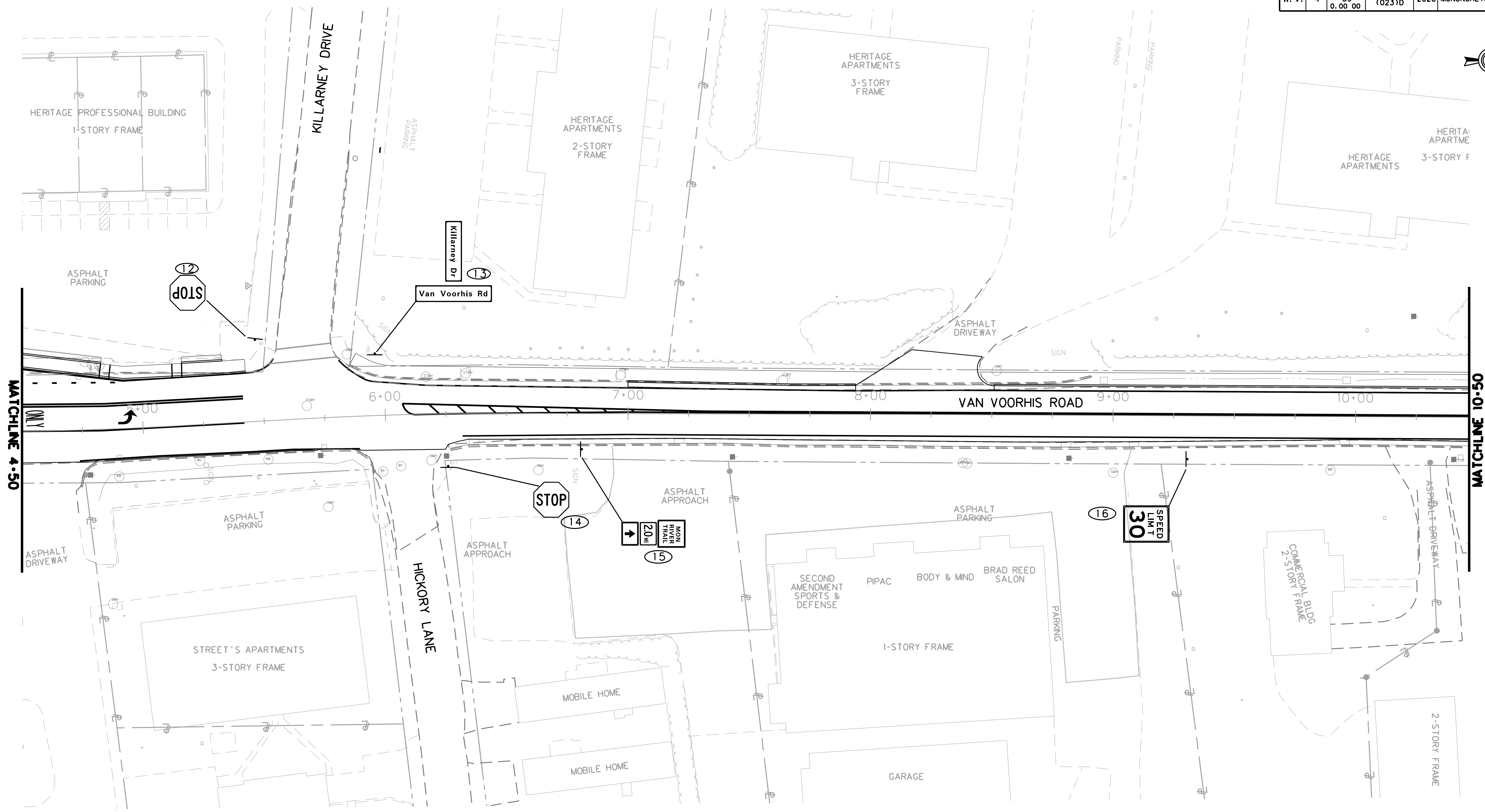
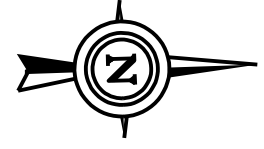
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SIGNING PLANS

P-1

MATCHLINE 4+50

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-00.00	NFA-2317 (02310)	2020	MONONGALIA	183	301

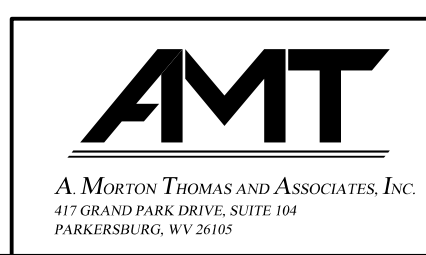


MATCHLINE 4-50

MATCHLINE 10-50

- EXISTING SIGN TO REMAIN IN PLACE (STR)
- NEW SUPPORTS
- EXISTING SUPPORTS TO REMAIN IN PLACE
- EXISTING SIGNS AND/OR SUPPORTS TO BE REMOVED (R&D)

SCALE : 0 20 ft.

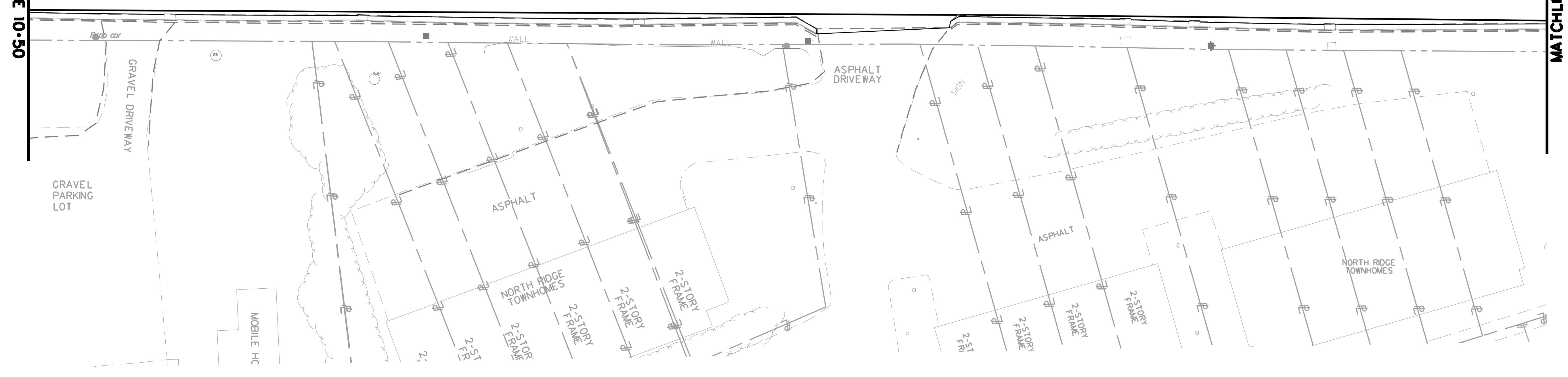
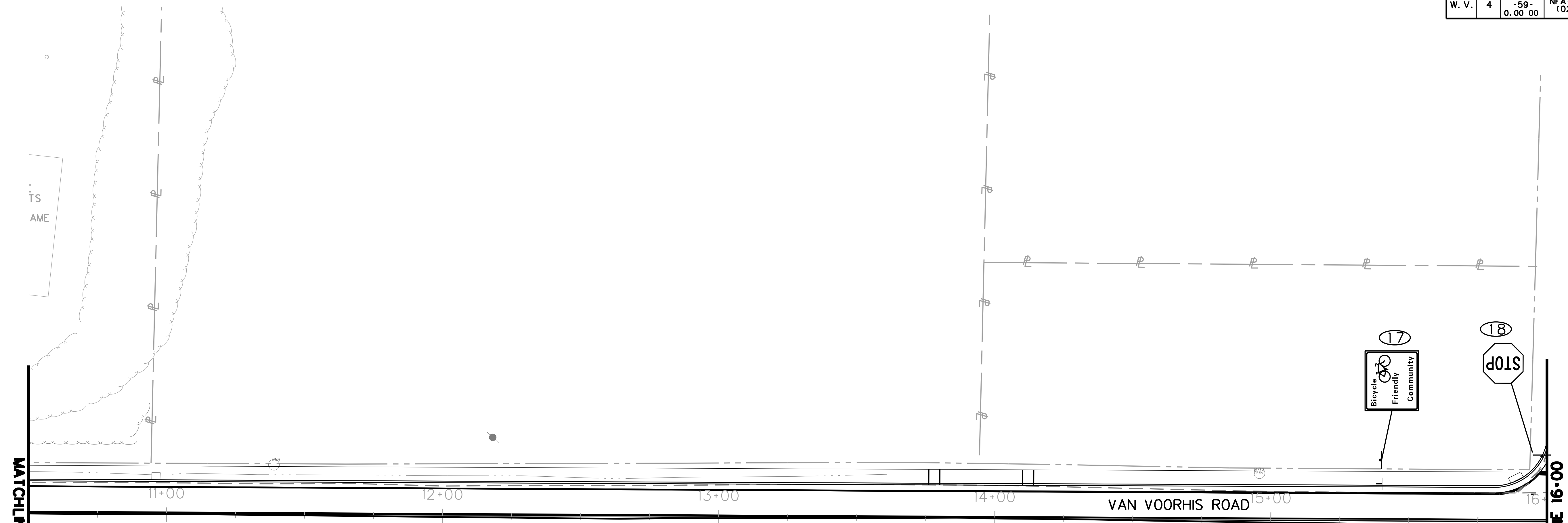
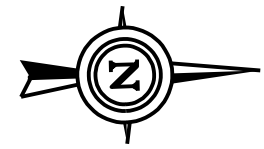


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SIGNING PLANS

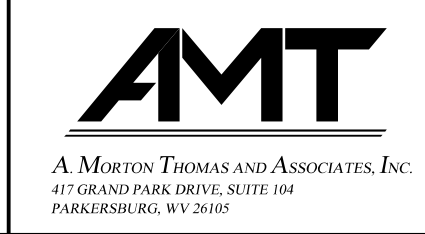
SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0237D)	2020	MONONGALIA	184	301



- EXISTING SIGN TO REMAIN IN PLACE (STR)
- NEW SUPPORTS
- EXISTING SUPPORTS TO REMAIN IN PLACE
- EXISTING SIGNS AND/OR SUPPORTS TO BE REMOVED (R&D)

SCALE : 0 20 ft.

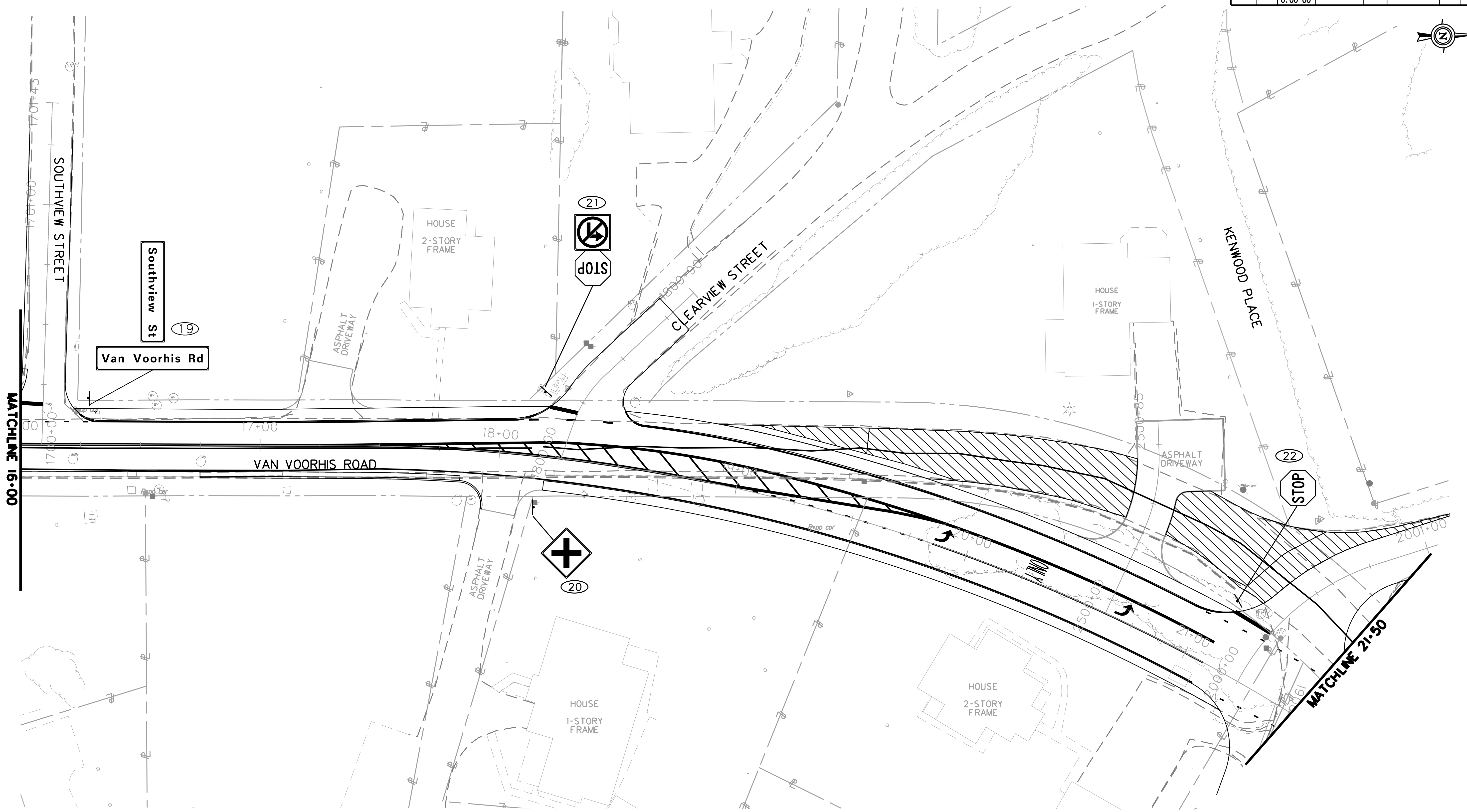
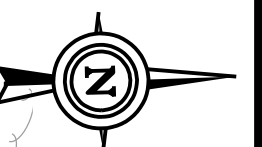


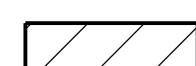

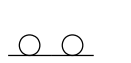
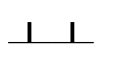
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SIGNING PLANS

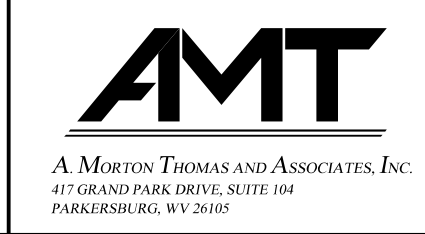
SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	185	301



-  - EXISTING SIGN TO REMAIN IN PLACE (STR)
-  - NEW SUPPORTS
-  - EXISTING SUPPORTS TO REMAIN IN PLACE
-  - EXISTING SIGNS AND/OR SUPPORTS TO BE REMOVED (R&D)

SCALE : 0 20 ft.

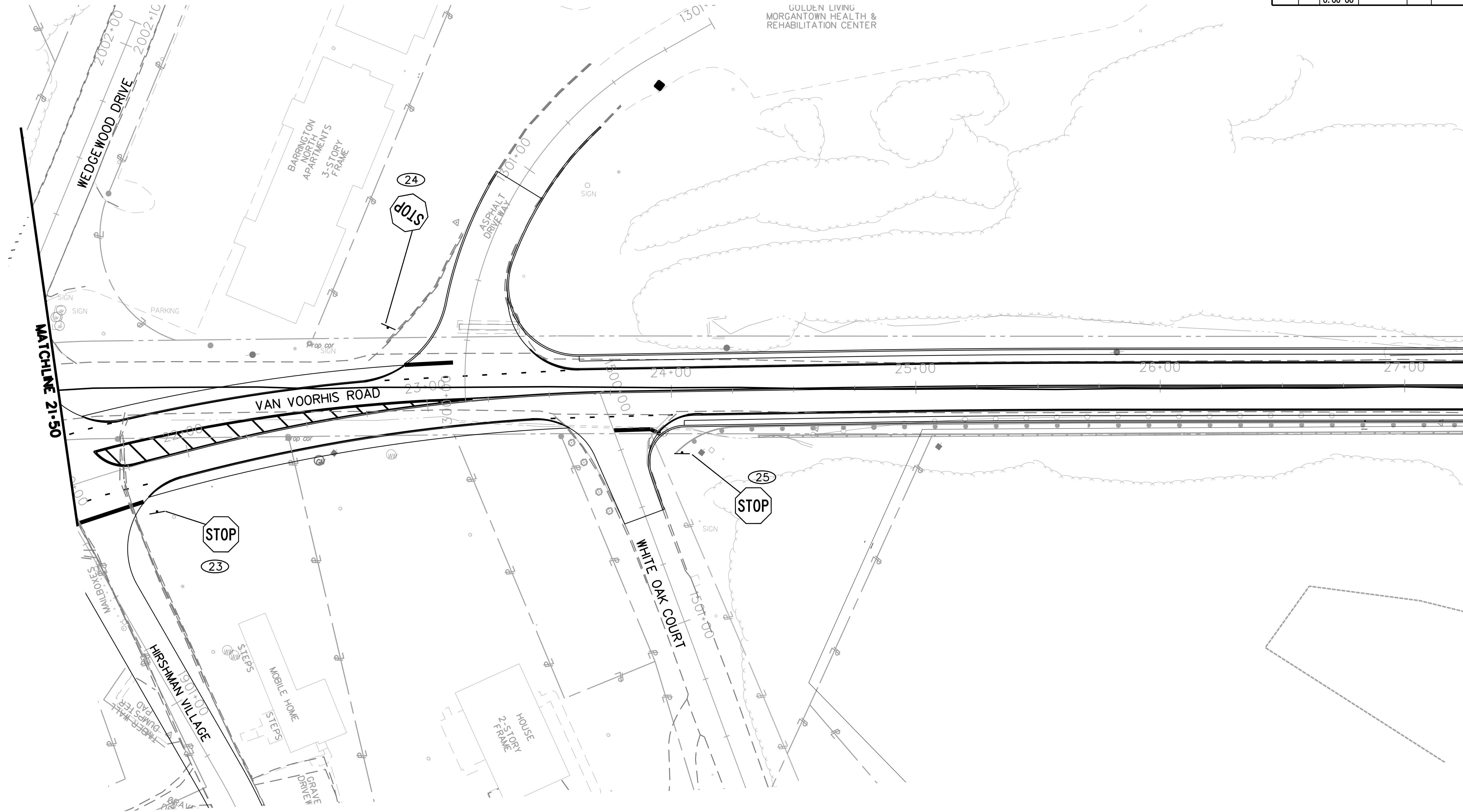
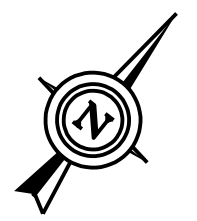




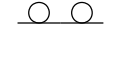
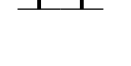
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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SIGNING PLANS

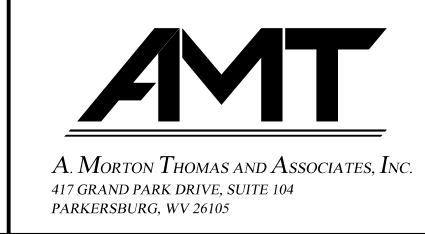
SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	186	301



-  - EXISTING SIGN TO REMAIN IN PLACE (STR)
-  - NEW SUPPORTS
-  - EXISTING SUPPORTS TO REMAIN IN PLACE
-  - EXISTING SIGNS AND/OR SUPPORTS TO BE REMOVED (R&D)

SCALE : 0 20 ft.

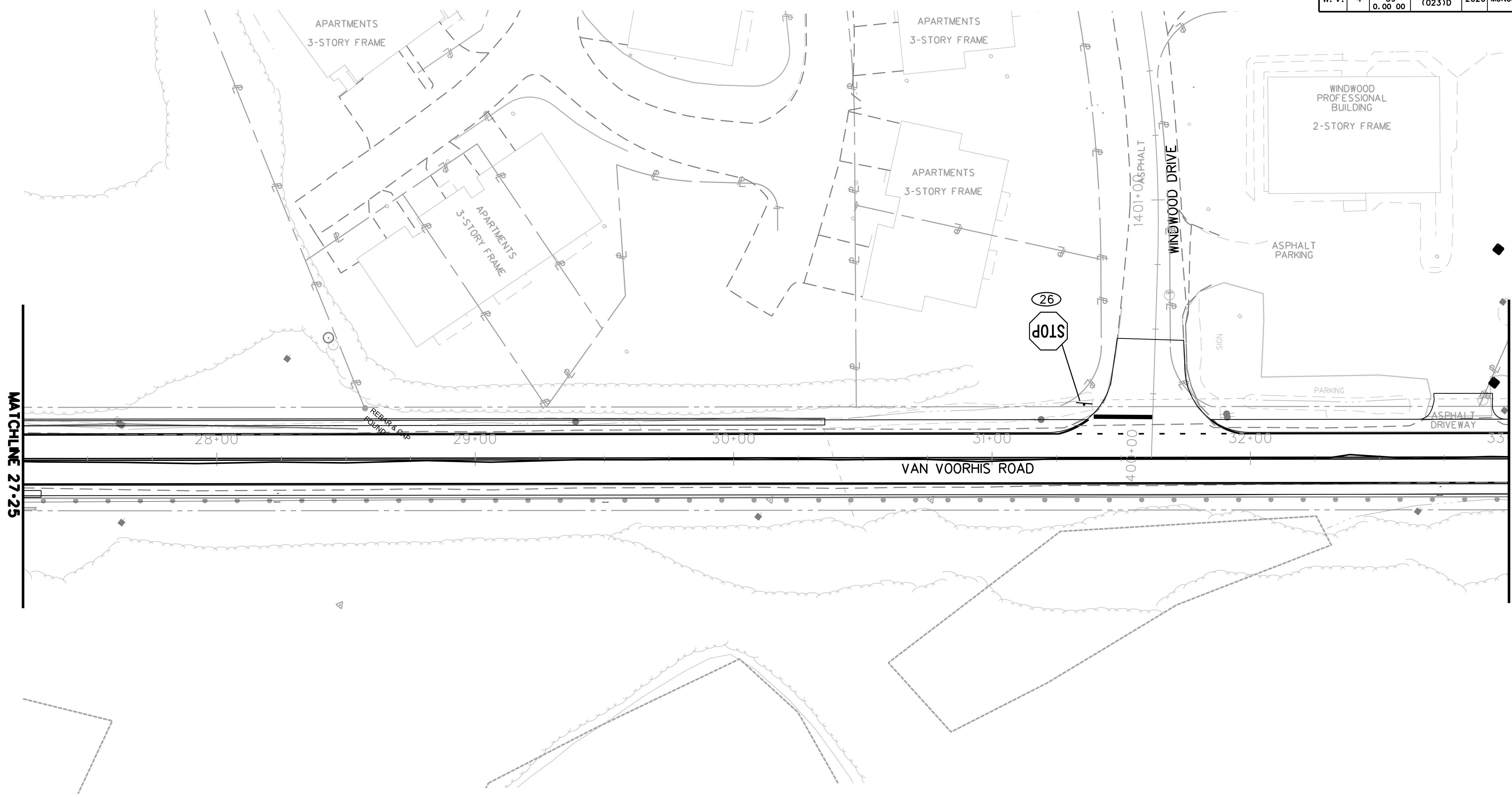


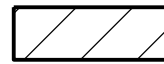



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SIGNING PLANS

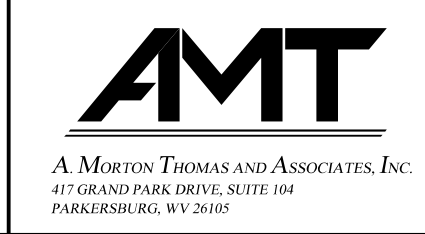
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Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-00.00 00	NFA-2317 (0231D)	2020	MONONGALIA	187	301



-  - EXISTING SIGN TO REMAIN IN PLACE (STR)
-  - NEW SUPPORTS
-  - EXISTING SUPPORTS TO REMAIN IN PLACE
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SCALE : 0 20 ft.

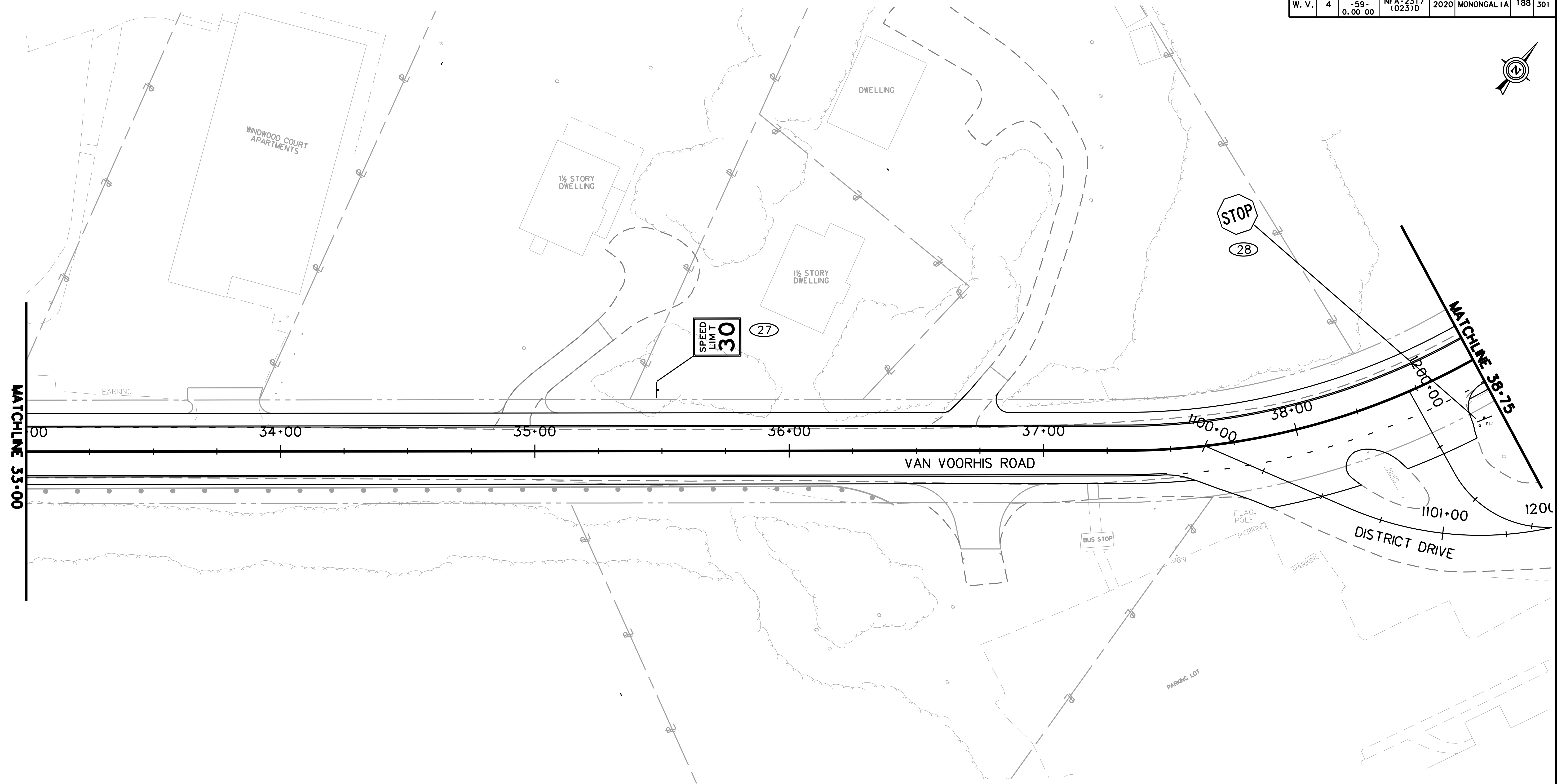
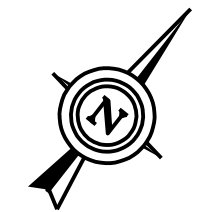


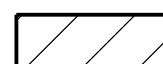



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SIGNING PLANS

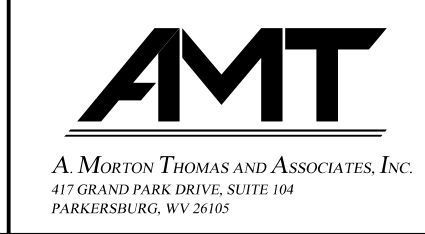
SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	188	301



-  - EXISTING SIGN TO REMAIN IN PLACE (STR)
-  - NEW SUPPORTS
-  - EXISTING SUPPORTS TO REMAIN IN PLACE
-  - EXISTING SIGNS AND/OR SUPPORTS TO BE REMOVED (R&D)

SCALE : 0 20 ft.

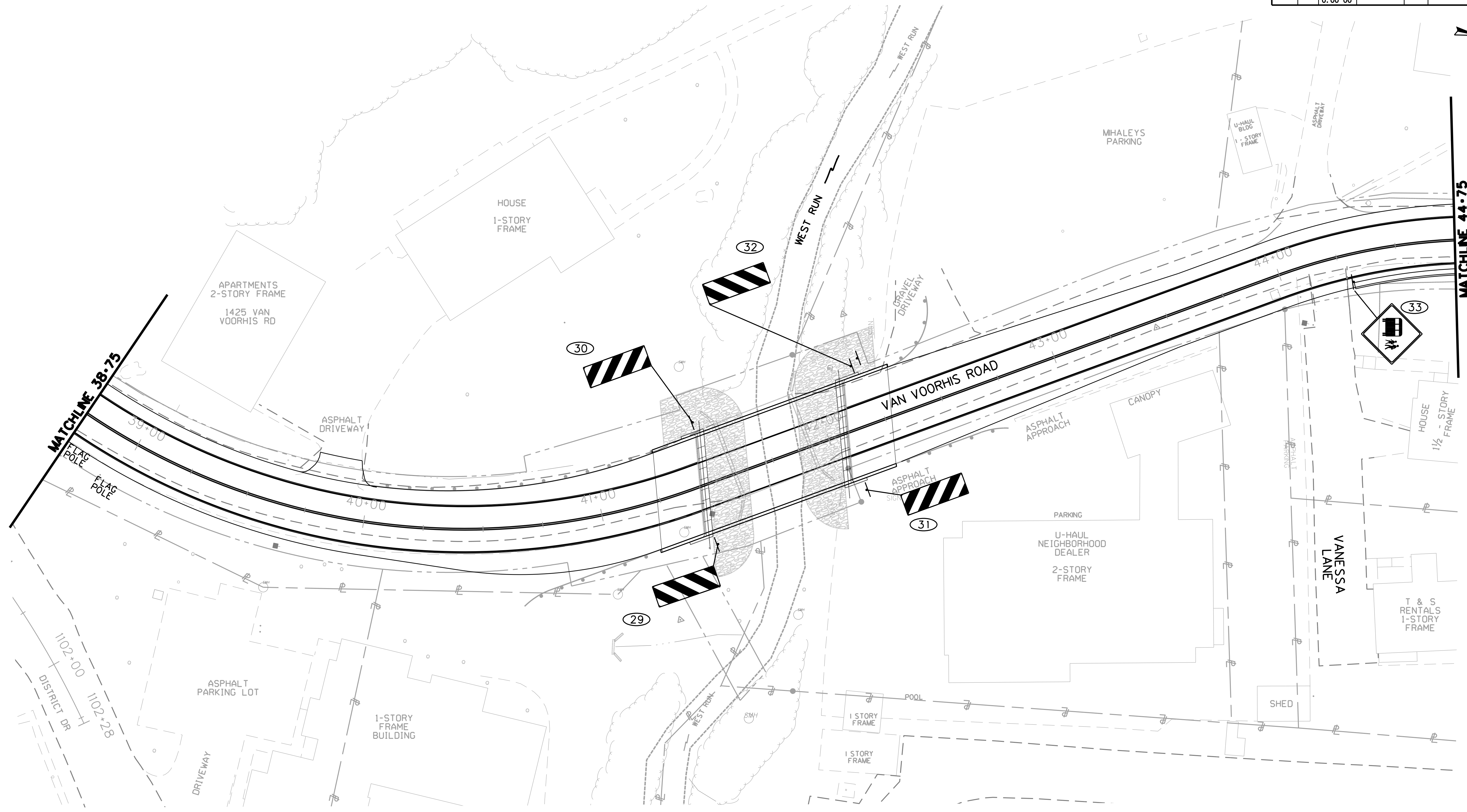
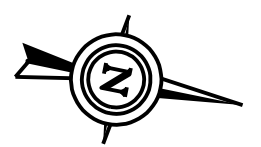


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SIGNING PLANS

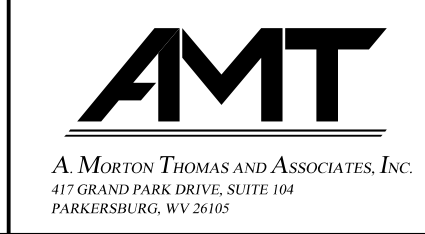
SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (023)D	2020	MONONGALIA	189	301



- EXISTING SIGN TO REMAIN IN PLACE (STR)
- NEW SUPPORTS
- EXISTING SUPPORTS TO REMAIN IN PLACE
- EXISTING SIGNS AND/OR SUPPORTS TO BE REMOVED (R&D)

SCALE : 20 ft.

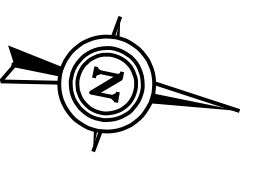


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SIGNING PLANS

SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	190	301

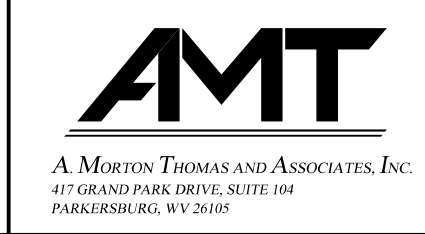


STATION 46+00
END PROJECT

MATCHLINE 44+75

- EXISTING SIGN TO REMAIN IN PLACE (STR)
- NEW SUPPORTS
- EXISTING SUPPORTS TO REMAIN IN PLACE
- EXISTING SIGNS AND/OR SUPPORTS TO BE REMOVED (R&D)

SCALE : 0 20 ft.

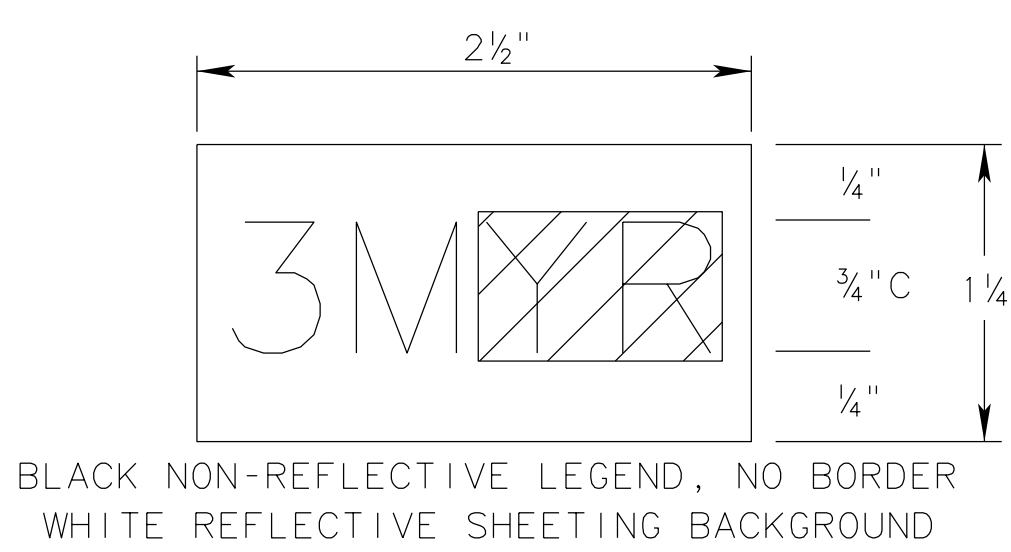
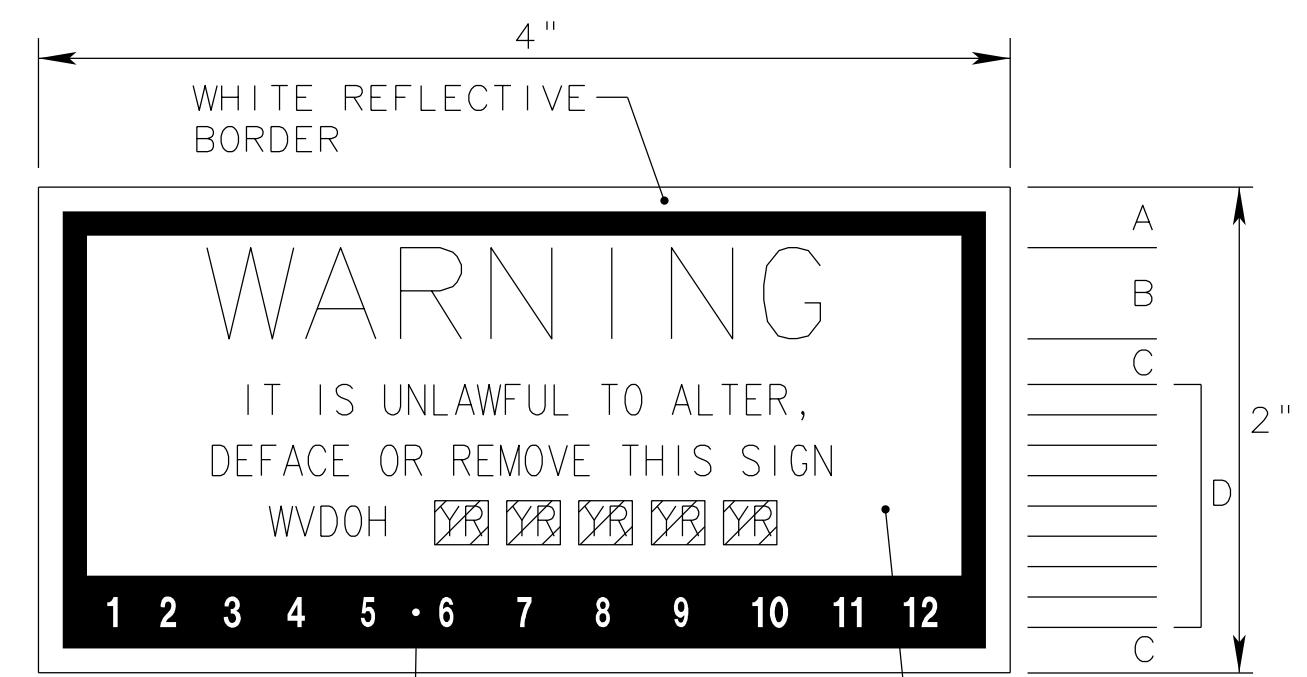


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SIGNING PLANS

SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (023)D	2020	MONONGALIA	191	301



WHITE REFLECTIVE LEGEND ON BLACK OPAQUE BACKGROUND

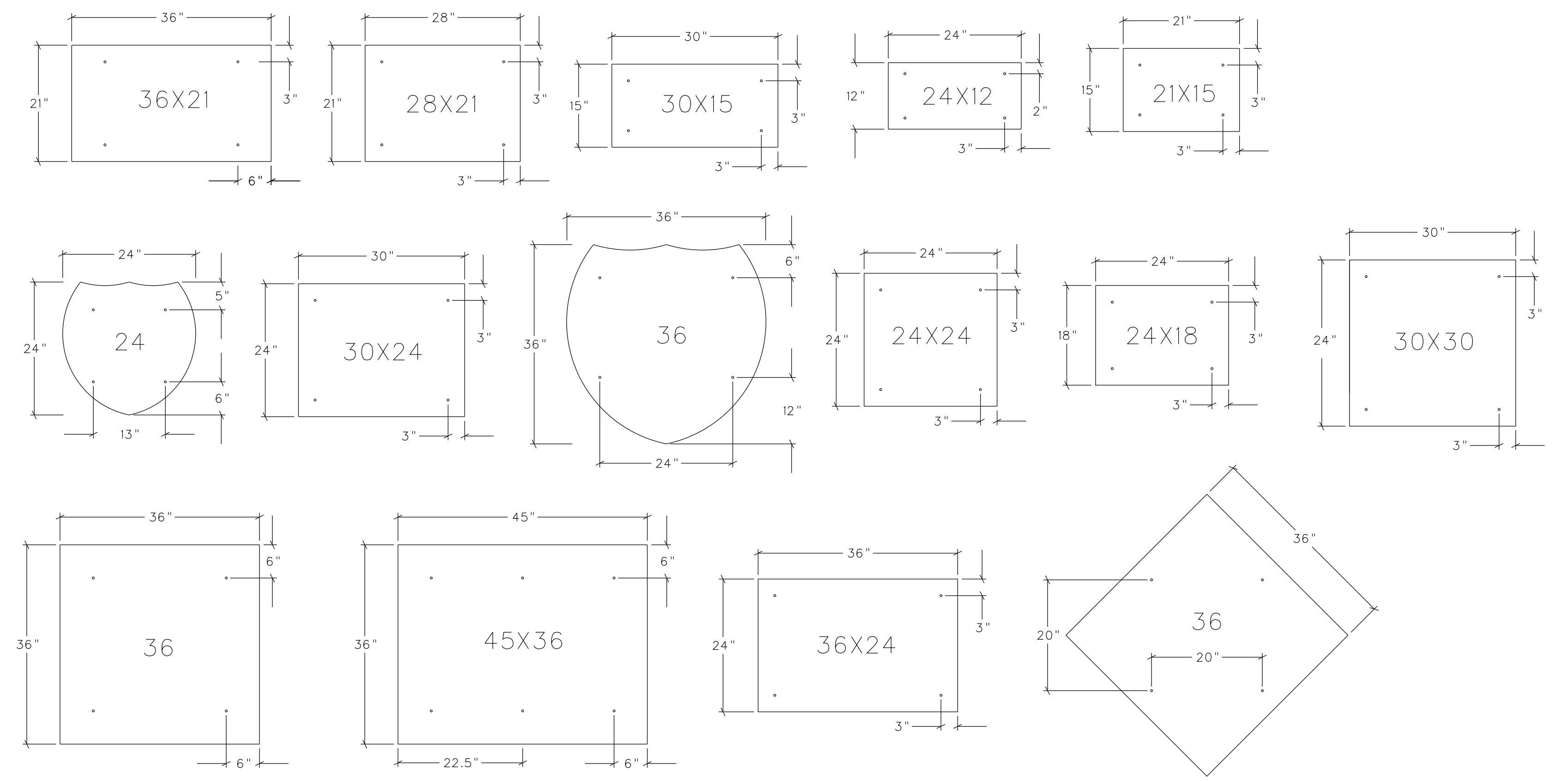
LETTER	DIM.
A	1/4"
B	3/8"
C	3/16"
D	1/8"

BLACK OPAQUE LEGEND ON WHITE REFLECTIVE BACKGROUND

DECALS FOR FLAT SHEET AND EXTRUDED PANEL SIGNS WILL BE PROVIDED BY THE SIGN FABRICATOR. THE YEAR AND MONTH OF INSTALLATION ARE TO BE PUNCHED OUT BY THE CONTRACTOR.

A SIGN IDENTIFICATION DECAL SHALL BE APPLIED TO THE LOWER RIGHT HAND CORNER (FACING BACK OF SIGN) OF ALL FLAT SHEET SIGNS STATING THE MONTH AND YEAR OF INSTALLATION. EXTRUDED PANEL SIGNS AND FABRICATED FLAT SHEET SIGNS WITH DIRECT APPLIED COPY SHALL HAVE TWO SEPARATE DECALS APPLIED TO THE LOWER RIGHT HAND CORNER (FACING BACK OF SIGN), ONE STATING THE MONTH AND YEAR OF INSTALLATION AND THE OTHER STATING THE MANUFACTURER OF THE SHEETING.

SIGN IDENTIFICATION DECALS

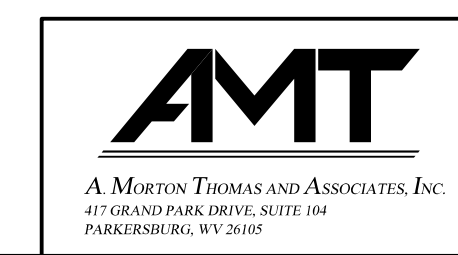


EXCEPTIONS TO STANDARD PUNCHING

ALL SIGNS SHALL HAVE TWO EXTRUDED RIBS. FOR MOUNTING DETAILS SEE STANDARD DETAIL TP-A. ALL HOLES SHALL BE 3/8". U-CHANNEL SPACING SHALL BE APPROXIMATELY 60% THE WIDTH OF THE WIDEST SIGN IN THE ASSEMBLY. RIBS MAY EXTEND BEYOND THE EDGE OF A SIGN AS NECESSARY FOR POST CLIPS.

SUBMITTED 6/29/2020

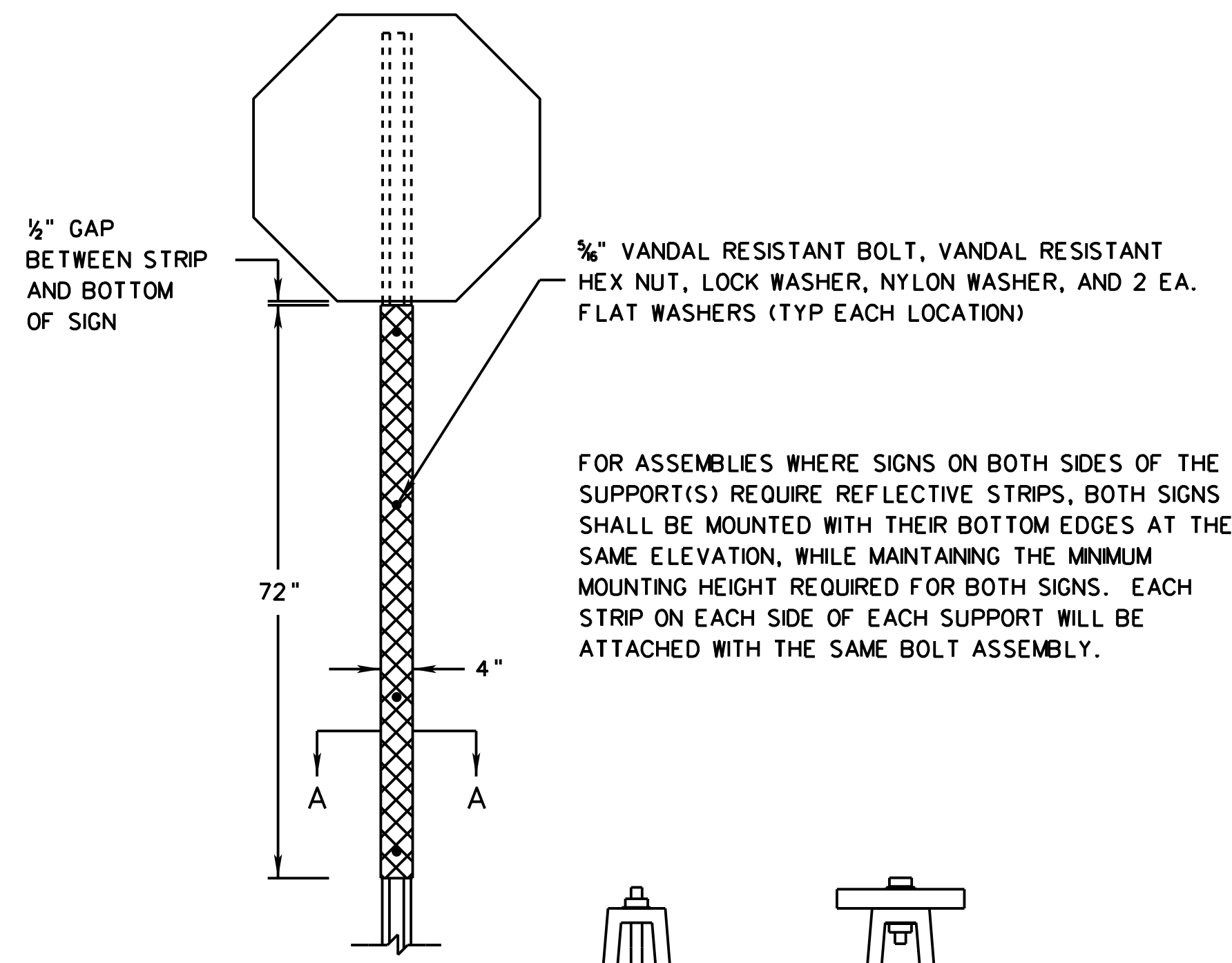
MD-1



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
MISCELLANEOUS DETAILS

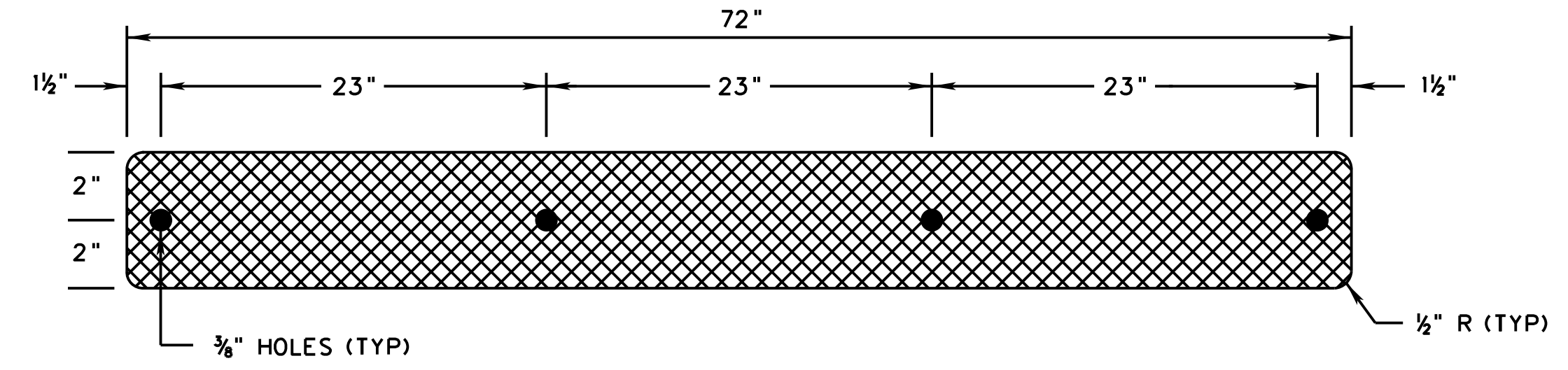
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0237D)	2020	MONONGALIA	192	301



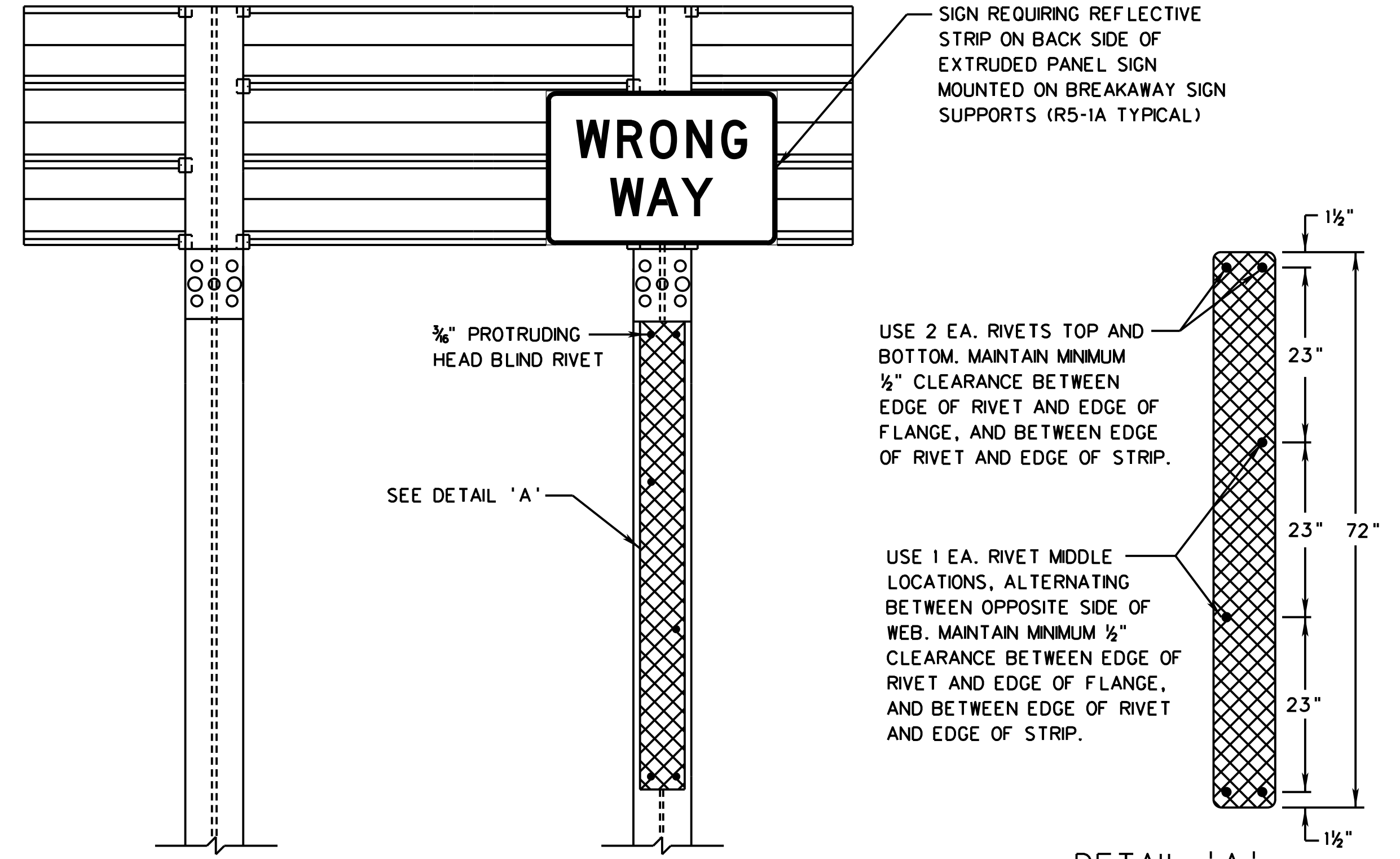
SECTION A-A
STRIP ATTACHED TO POST FLANGES WITH 3/8" BOLT

SECTION A-A
STRIP ATTACHED TO POST WEB WITH 3/8" BOLT

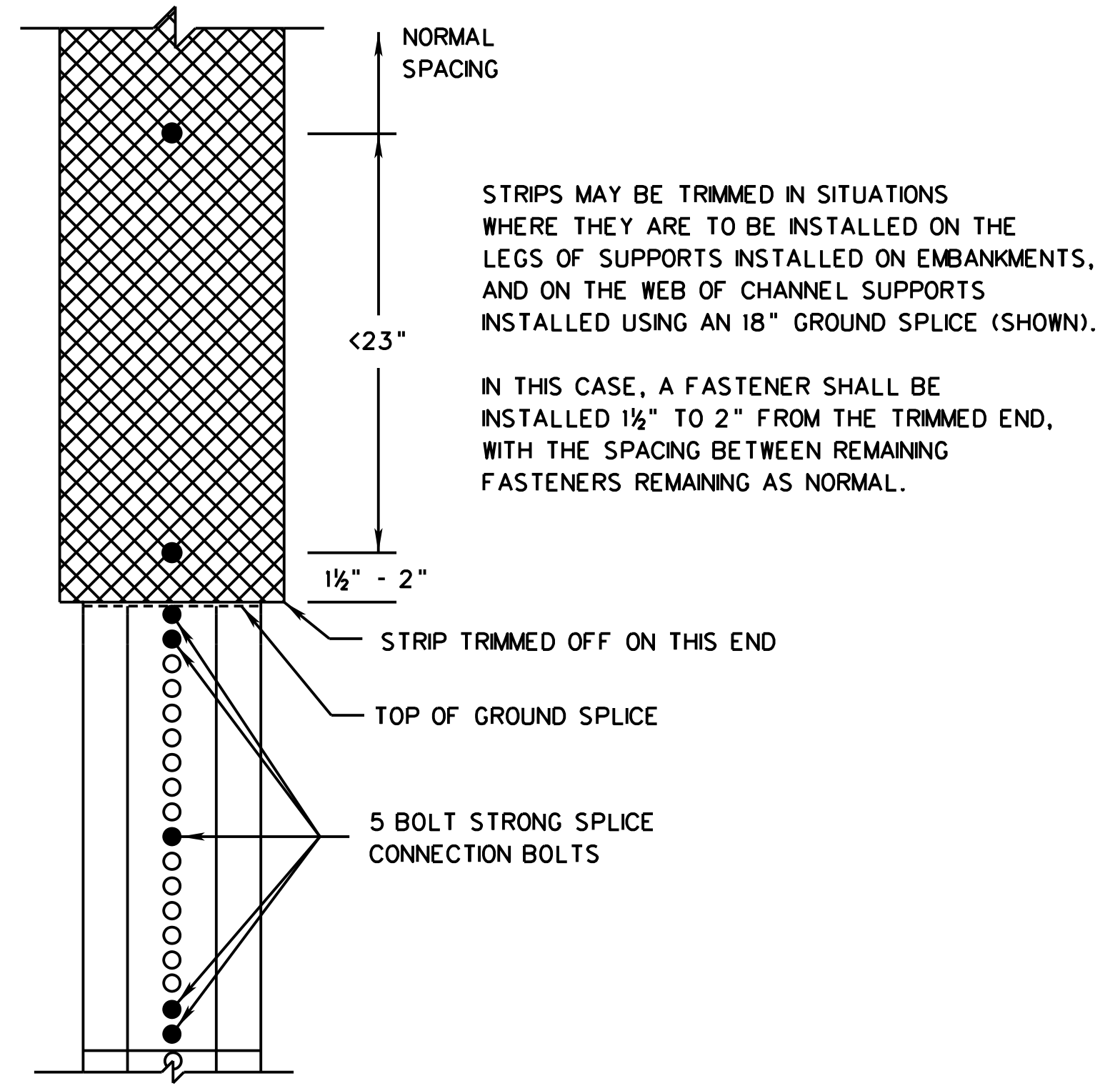
U-CHANNEL OR PRE-PUNCHED SQUARE TUBE INSTALLATION



STANDARD NON-PROPRIETARY REFLECTIVE SIGN SUPPORT STRIP



BREAKAWAY SUPPORT OR NON-PERFORATED SQUARE TUBE INSTALLATION



TRIMMING REFLECTIVE STRIPS

NOTES:
STANDARD NON-PROPRIETARY REFLECTIVE POST STRIPS SHALL BE MANUFACTURED AS SHOWN. THE SUBSTRATE FOR THE STRIPS SHALL BE 0.080 INCH ALUMINUM MEETING THE MATERIAL REQUIREMENTS OF SECTION 661 OF THE SPECIFICATIONS. THE SHEETING USED ON THE STRIPS SHALL BE PRISMATIC TYPE ASTM-III RED OR WHITE, OR TYPE ASTM-IX FLUORESCENT YELLOW/GREEN OR FLUORESCENT YELLOW, OR TYPE ASTM-XI FLUORESCENT YELLOW/GREEN OR FLUORESCENT YELLOW, BASED ON THE PRIMARY COLOR OF THE SIGN THAT IS SUPPLEMENTED BY THE STRIP. STRIPS MAY OR MAY NOT BE MANUFACTURED WITH HOLES PRE-PUNCHED.

MATERIAL REQUIREMENTS FOR THE HARDWARE SPECIFIED FOR USE WITH THE NON-PROPRIETARY REFLECTIVE POST STRIP SHOWN SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

THE CONTRACTOR MAY ALTERNATIVELY USE PROPRIETARY REFLECTIVE INSERTS AND/OR STRIPS SHOWN ON THE DOH APPROVED PRODUCTS LIST (APL). THESE PRODUCTS SHALL BE ATTACHED AS RECOMMENDED BY THE MANUFACTURER USING HARDWARE PROVIDED BY THE MANUFACTURER.

REFLECTIVE POST STRIPS SHALL BE REQUIRED TO BE INSTALLED ON ALL SIGN ASSEMBLIES INDICATED SPECIFICALLY, BY ASSEMBLY NUMBER, IN THE PROJECT PLANS. TYPICAL ASSEMBLIES REQUIRING REFLECTIVE POST STRIPS ARE AS FOLLOWS:

- RED STRIPS
- RI-1 SIGNS ON EXIT RAMP DIVERGING FROM ROADWAYS THAT MEET THE FOLLOWING CRITERIA:
- o MULTIPLE THROUGH LANES IN EACH DIRECTION, AND
 - o POSTED SPEED LIMIT OF 50 MPH OR GREATER

ALL RI-1 SIGNS AT INTERSECTIONS WHERE ONE OF THE INTERSECTING ROADWAYS HAS MULTIPLE THROUGH LANES IN EACH DIRECTION AND A NORMAL POSTED SPEED LIMIT OF 50 MPH OR GREATER.

ALL RI-2, ALL R5-1 AND ALL R5-1A SIGNS.

WHITE STRIPS

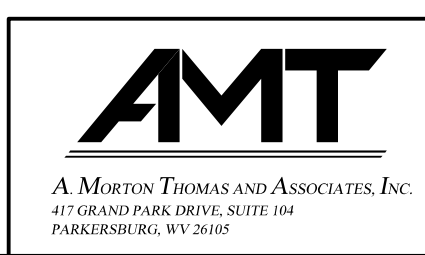
ALL R4-7, R4-8, R6-1L AND R6-1R SIGNS

FLUORESCENT YELLOW/GREEN STRIPS

ALL S SERIES (SCHOOL) SIGNS MANUFACTURED USING EITHER TYPE ASTM IX FLUORESCENT YELLOW/GREEN REFLECTIVE SHEETING OR TYPE ASTM XI FLUORESCENT YELLOW/GREEN REFLECTIVE SHEETING.

ADDITIONAL REFLECTIVE POST STRIPS MAY ALSO BE REQUIRED UNDER SPECIAL CIRCUMSTANCES AS DETERMINED BY THE PROJECT DESIGNER OR ENGINEER. THE COLOR STRIPS TO BE UTILIZED IN THESE CASES WILL BE SPECIFIED IN THE PROJECT PLANS OR NOTES.

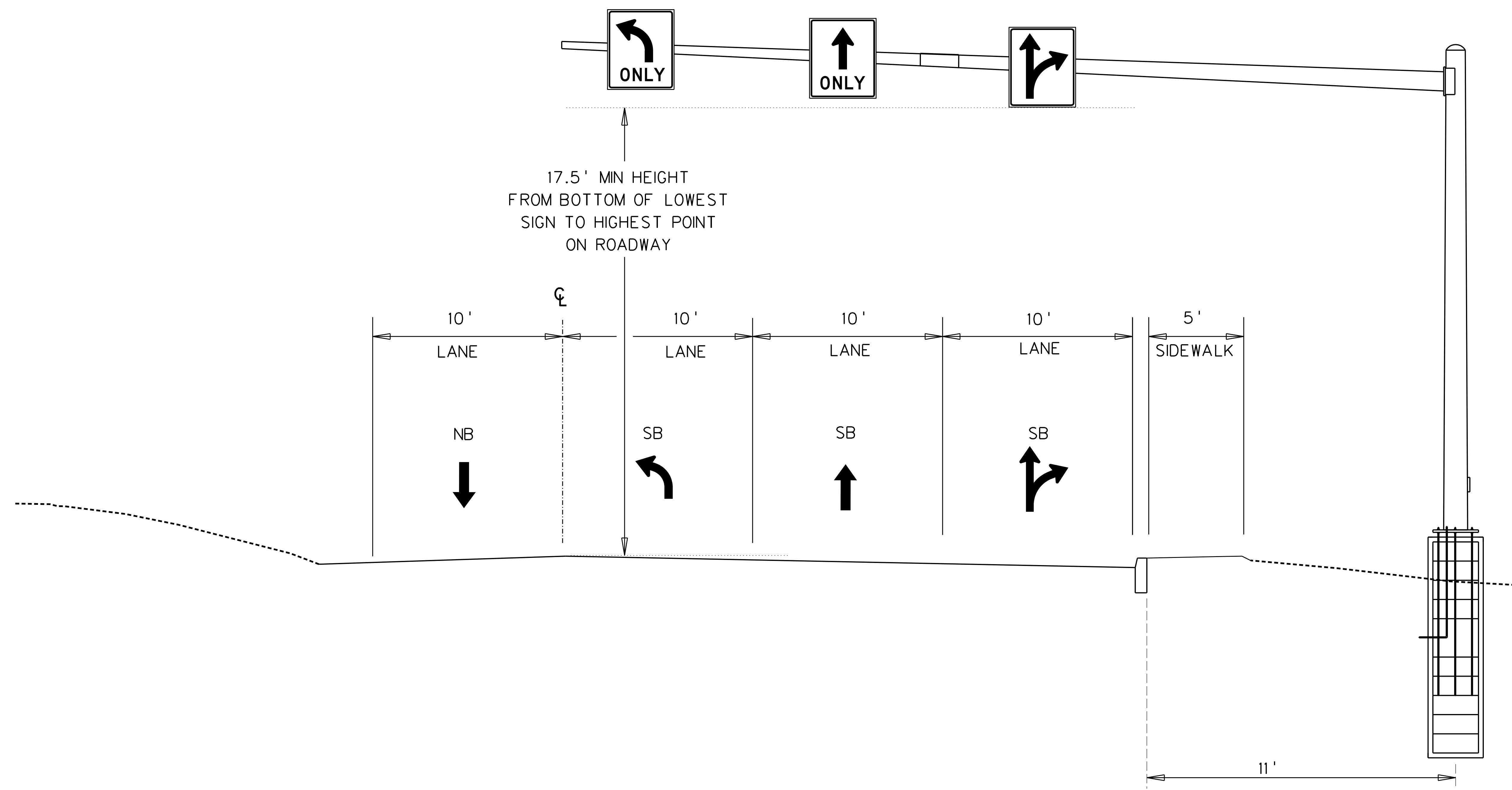
SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
REFLECTIVE SIGN SUPPORT STRIPS DETAILS

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	193	301



NOTES

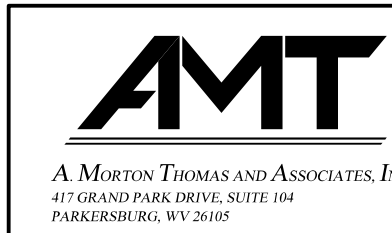
ALL ROADWAY AND OVERHEAD STRUCTURE DIMENSIONS SHOWN ARE FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR DIMENSION VERIFICATION.

REFER TO STANDARD DRAWING TE4-4B OF VOLUME II OF THE STANDARD DETAILS FOR DETAILS REGARDING THE REQUIRED SACL-45 SUPPORT.

SIGNS SHALL BE CENTERED OVER THE APPLICABLE LANES.

SUBMITTED 6/29/2020

MD-3



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**SIGN ASSEMBLY
SUPPORT DETAILS**

SIGNAL SUMMARY OF QUANTITIES

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0237D)	2020	MONONGALIA	194	301

ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
	660001-001	SIGNAL CONTROLLER, 01	LS	1
	660003-001	SIGNAL SECTION, G-16	EA	10
	660003-006	SIGNAL SECTION, V-12	EA	37
	660004-040	SIGNAL SUPPORT, C1	EA	3
	660004-042	SIGNAL SUPPORT, C1L	EA	1
	660004-050	SIGNAL SUPPORT, E1	EA	3
	660005-010	JUNCTION BOX, TYPE H (10" X 10")	EA	1
	660005-010	JUNCTION BOX, TYPE H (18" X 18")	EA	6
	660007-001	MISCELLANEOUS SIGNAL, 01	LS	1
	660010-001	PRIORITY CONTROL SYSTEM DETECTOR, D4	EA	1
	660060-001	MISCELLANEOUS RADIO INSTALLATION, 01	LS	1
	660060-003	ETHERNET RADIO TRANSCEIVER AND ANTENNA	EA	1
	660060-004	ETHERNET SWITCH	EA	1
	662002-001	GALVANIZED STEEL CONDUIT, 01	LS	1
	662007-001	LUMINAIRE, (LED)	EA	1
	662014-001	INCIDENTAL ELECTRICAL WORK, 01	LS	1

SIGNAL DOWNTIME

THE SIGNAL DOWNTIME SHALL BE LIMITED TO 10 HOURS. THERE SHALL BE NO SIGNAL DOWNTIME DURING WVU HOME FOOTBALL OR WVU HOME BASKETBALL GAME DAYS.

SPECIAL SIGNAL CONTROLLER REQUIREMENTS:

IN ADDITION TO REQUIREMENTS IN THE STANDARD SPECIFICATIONS, THE CONTROLLER UNIT MUST FEATURE A "MENU DRIVEN FORMAT" AND FULLY WIRED "D" CONNECTORS. ALL CONTROLLERS SHALL BE SYSTEM READY COMPLETE WITH MODEM.

ALL NEW TRAFFIC CONTROL CABINETS TO MEET WVDOH CURRENT TS-2 STANDARDS.

ALSO THE TS-2 CABINET SHALL INCLUDE ISOLATION RELAY PANELS TO DRIVE THE CONFIRMATION LIGHTS FOR ALL PRIORITY CONTROL DEVICES.

SIGNAL SYSTEM COMPLETION NOTE

INSTALLATION OF THIS SIGNAL SYSTEM SHALL ONLY BE CONSIDERED SUBSTANTIALLY COMPLETE WHEN ALL PRESCRIBED SIGNAL SYSTEM FUNCTIONS AND ROADWAY DETECTION SYSTEMS ARE FULLY OPERATIONAL AND ALL PRESCRIBED COMPONENTS ARE DELIVERED TO THE TRAFFIC ENGINEERING SIGNAL AND LIGHTING STORAGE YARD AND INFORMATION REQUIRED ON SHEET SG-2 NOTE 1A SUBMITTED TO WVDOH TRAFFIC ENGINEERING CHRIS WILLIAMS AT CHRIS.K.WILLIAMS@WV.GOV.

"AUDIBLE" PEDESTRIAN PUSH BUTTONS"

"AUDIBLE" PEDESTRIAN PUSH BUTTONS (10) SHALL BE PROVIDED FOR THIS PROJECT AND SHALL BE AS PROVIDED ON THE WVDOH "APS" APL. THESE SHALL INCORPORATE A PUSH BUTTON WITH VIBRATOR, AUDIBLE MESSAGE AND RELIEF SYMBOLS.

THESE APS UNITS TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND SHALL BE OF ONE OF THE MANUFACTURER'S PROVIDED ON THE "APS" APL LIST. THESE TO BE BID AS PART OF ITEM 660007-001(•) * • PER-INTERSECTION.

STOP BAR RADAR PRESENCE DETECTION SYSTEM (RPD)

A RADAR PRESENCE DETECTION SYSTEM (RPD) IS TO BE INSTALLED FOR THE ONE (1) INTERSECTION IN THIS PROJECT AS DESCRIBED IN THESE PLANS. FOUR (4) STOP BAR RADAR SENSORS (RPD) W/SPLICE BOXES ARE EXISTING AT THIS INTERSECTION ON EXISTING SIGNAL POLES, THESE ARE TO BE RELOCATED TO NEW SIGNAL POLES AS DESCRIBED IN THESE PLANS WITH NEW MOUNTING HARDWARE. ALSO, NEW RADAR SENSOR CABLE, NEW RADAR SENSOR CONTACT CLOSURE CARDS, NEW RADAR SENSOR PREASSEMBLED BACKPLATE & MISC. RADAR SENSOR HARDWARE SHALL BE SUPPLIED AS NEEDED AND PROPERLY INSTALLED BY CONTRACTOR. THIS WORK AND MATERIAL SHALL BE BID AS PART OF ITEM 660007-001(01).

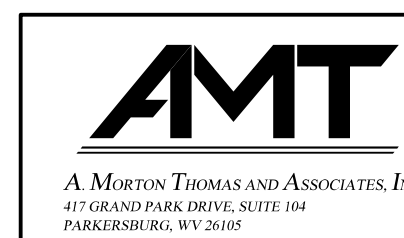
CONTRACTOR SHALL CONTACT MANUFACTURER REPRESENTATIVE PRIOR TO INSTALLATION. DETECTION SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATION WITH FINAL APPROVAL BY WVDOH TRAFFIC ENGINEERING DESIGN. CONTACT CHRIS WILLIAMS (304-414-7374).

SIGNAL EQUIPMENT REMOVAL

- SEE NOTE 1B ON SHEET SG-2 FOR EXISTING SIGNAL EQUIPMENT TO BE REMOVED AND DELIVERED TO THE WVDOH. DESIGNATED SIGNAL POLES (4) SHALL BE REMOVED BY THE CONTRACTOR AND BECOME HIS PROPERTY TO DISPOSE OF PROPERLY UNLESS OTHERWISE STATED ON THE PLANS.
 - POLES DESIGNATED FOR REMOVAL SHALL HAVE THEIR FOUNDATIONS REMOVED A MINIMUM OF 12" BELOW GROUND. THESE AREAS SHALL BE REPLACED WITH MATERIAL TO MATCH THE EXISTING SURROUNDING MATERIAL. BID AS PART OF ITEM 660007-001(01).
 - ALL OTHER EXISTING SIGNAL EQUIPMENT (NOT DESIGNATED TO BE RELOCATED/ REUSED) SHALL BE REMOVED BY CONTRACTOR AND PROPERLY DISPOSED OF. BID ALL REMOVAL AS PART OF ITEM 660007-001(01).
 - THE EXISTING POWER SERVICE TO BE PROPERLY REMOVED AT THIS INTERSECTION. (NEW POWER SERVICE TO BE INSTALLED AS NOTED ON PLAN SHEET).
 - ABANDON ALL UNUSED EXISTING JUNCTION BOXES AND CONDUITS IN PLACE UNLESS CONFLICTING WITH PROPOSED SIGNAL WORK OR NOTED ON PLANS.

SUBMITTED 6/29/2020

SG-1



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SIGNAL SUMMARY OF QUANTITIES
VAN VOORHIS RD. AT CHESTNUT RIDGE RD.
MORGANTOWN, MONONGALIA CO.

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	195	301

GOVERNING SPECIFICATIONS

- THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, STANDARD SPECIFICATIONS, ROADS AND BRIDGES, ADOPTED 2017, AS AMENDED BY WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS SUPPLEMENTAL SPECIFICATIONS, DATED JANUARY 2020, THE CONTRACT DOCUMENTS AND THE CONTRACT PLANS ARE THE GOVERNING PROVISIONS APPLICABLE TO THIS PROJECT.

STANDARD DETAILS

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, STANDARD DETAILS BOOK, VOLUME I, DATED MAY, 2016 & VOLUME II, DATED JANUARY 2019 SHALL APPLY TO THIS PROJECT. STANDARD DETAIL DRAWINGS CAN BE FOUND AT:

http://www.transportation.wv.gov/highways/engineering/pages/publications.aspx

- THE NATIONAL ELECTRICAL CODE AND STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS FOR ELECTRICAL WIRING AND APPARATUS.

GENERAL NOTES

- REPLACEMENT OF ALL CONCRETE AND ASPHALT SHALL BE DONE IN ACCORDANCE TO ORIGINAL DESIGN THICKNESS WHERE IT HAS BEEN DISTURBED OR REMOVED TO INSTALL POLES OR CONDUIT AT THE CONTRACTOR'S EXPENSE.
- ALL AREAS ON THIS PROJECT WHICH HAVE BEEN SEED BY OTHERS AND WHICH ARE DISTURBED BY THE CONTRACTOR IN PERFORMING THE REQUIREMENTS OF THIS CONTRACT SHALL BE REPLACED TO THEIR ORIGINAL CONDITION BY APPROVED SEEDING AND MULCHING METHODS AND MATERIALS AS DIRECTED BY THE ENGINEER. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THIS WORK.
- THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. ANY DAMAGE INCURRED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

- THE CONTRACTOR SHALL COORDINATE HIS ACTIVITIES WITH THE FOLLOWING AGENCIES IN THE MORGANTOWN AREA:

MORGANTOWN CITY ENGINEER	MR. DAMIEN DAVIS	304-284-7398
MORGANTOWN UTILITY BOARD	MR. BRIAN HINDMAN	304-292-8443
LUMOS NETWORKS	MR. TONY BROWNLEE	724-749-3246
DOE COMMUNICATIONS	SALES.SUPPORT	877-263-8638
COMCAST	DONALD REVELL	800-777-9824
DOMINION ENERGY WV	ZACHARY BALL	304-464-5933
FRONTIER COMMUNICATIONS	MR. DAVID HYDE	304-842-9195
MONPOWER/FIRST ENERGY CORP	TODD HOLLOWAY	800-686-0022 / 800-686-0011

- COLOR CODING OF ELECTRICAL CONDUCTORS BY USE OF PHASE TAPE OR FIELD PAINT IS NOT ACCEPTABLE ON THIS PROJECT. CONDUCTORS MUST BE MANUFACTURER-COLORED, STRIPED, OR RIGID-MARKED AS SPECIFIED.

- ALL NEW METALLIC SIGNAL EQUIPMENT SUCH AS POLES, CONDUIT, AND CABINETS MUST BE DIRECTLY BONDED TOGETHER BY A SPECIAL RUN SINGLE-CONDUCTOR #8 AWG STRANDED COPPER WIRE. THE WIRE MUST BE INSULATED, COLOR CODED GREEN AND CONNECTED AT EACH BONDING POINT BY USE OF SCREW-TYPE COPPER OR BRONZE LUGS. IN ADDITION TO THIS BONDING, THE CONDUCTOR MUST BE CONNECTED TO ALL GROUND RODS IN THE SIGNAL SYSTEM AND TO THE EQUIPMENT GROUND BAR BUSS IN THE CONTROLLER CABINET.

- TRAFFIC SIGNAL GROUND ROD CONNECTORS MUST BE ATTACHED AND SECURELY FASTENED BOTH AT THE FOUNDATION AND INSIDE POLE PRIOR TO ERECTION OF POLE. ENOUGH SLACK IN THE GROUNDING WIRE MUST BE ALLOWED FOR ERECTION OF POLE. BOTH CONNECTIONS MUST AGAIN BE CHECKED AFTER THE POLE IS INSTALLED.

- EXCAVATIONS FOR TRAFFIC SIGNAL CONDUIT NOT UNDER ROADWAY OR SHOULDER AREAS, UNDER 12" IN WIDTH AND 30" IN DEPTH, MAY BE BACK FILLED IN LAYERS NOT EXCEEDING 4" AFTER COMPACTION. SPECIFIC DENSITY TESTS WILL NOT BE REQUIRED WHEN ACCEPTED COMPACTION TECHNIQUES ARE USED AND THE BACK FILLED EXCAVATION DENSITY IS COMPARABLE TO THAT OF THE SURROUNDING GROUND.

- AC - (COMMON), LOGIC GROUND AND CHASSIS GROUND MUST BE ISOLATED IN THE CONTROLLER AND DETECTOR CIRCUITRY AS REQUIRED IN THE NEMA STANDARDS.

- CONDUIT SHALL BE INSTALLED BY APPROVED JACKING OR DRILLING METHODS. PAVEMENT, BRICK, OR EXISTING SIDEWALK SHALL NOT BE DISTURBED UNLESS APPROVED BY THE ENGINEER. IN THE EVENT THAT THE SIDEWALK HAS TO BE OPENED, THE ENTIRE SECTION OF SIDEWALK MUST BE REPLACED, JOINT TO JOINT, UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. BID THIS WORK AS 660007-001() - PER INTERSECTION

- THREADED COUPLINGS SHALL BE USED TO CONNECT ALL CONDUITS. SLIP JOINTS, SET SCREW COUPLINGS, AND CONTINUOUS RUNNING THREADS ARE NOT PERMITTED.

- WHEN EXCAVATING, CONTRACTOR SHALL USE EXTREME CAUTION, THERE ARE NUMEROUS UNDERGROUND UTILITIES AND DRAINAGE CULVERTS WITHIN THIS INTERSECTION. RESPONSIBILITY OF CONTRACTOR TO LOCATE THESE PRIOR TO ANY EXCAVATING.

ISOLATION RELAY NOTE

EACH VEHICLE DETECTOR THAT IS NOT LOCATED IN THE CONTROLLER CABINET MUST BE PROVIDED WITH ISOLATION RELAYS. IN ADDITION, ALL PEDESTRIAN PUSH BUTTONS (WHEN APPLICABLE) MUST BE PROVIDED WITH ISOLATION RELAYS. THE RELAYS ARE TO PROTECT THE CONTROL EQUIPMENT FROM INDUCED VOLTAGES AND OTHER EXTERNAL INTERFERENCE. THE ISOLATION RELAYS MUST BE LOCATED IN THE CONTROLLER CABINET. THE 24 VOLT CONTROLLER DETECTION AND LOGIC COMMON CIRCUITS ARE NOT TO RUN EXTERNAL TO THE CONTROLLER CABINET. THE 24 VOLT POWER SUPPLY FOR THE EXTERNAL ISOLATION SYSTEM MUST BE PROVIDED. THE 24 VOLT INTERNAL POWER SUPPLY FROM THE CONTROLLER UNIT CAN NOT BE USED IN THE EXTERNAL ISOLATION SYSTEM.

UTILITY NOTE

THE CONTRACTOR MUST NOTIFY ALL APPLICABLE UTILITIES PRIOR TO ANY EXCAVATION FOR EXACT LOCATION OF THEIR UNDERGROUND FACILITIES. EXTREME CAUTION SHALL BE USED IN THESE AREAS ESPECIALLY IN EXCAVATING FOR FOUNDATIONS AND THE JACKING OF CONDUIT. IF NECESSARY THE CONTRACTOR SHALL HAND DIG TO LOCATE LINES OR SHALL OPEN CUT IN AREAS OF POSSIBLE CONFLICT. THESE AREAS TO BE DETERMINED BY THE PROJECT ENGINEER. CONTACT MISS UTILITY & SEWER/WATER UTILITY COMPANIES PRIOR TO ANY EXCAVATING. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL WVDOH OWNED UTILITIES INCLUDING ANY SIGNAL AND LIGHTING CONDUITS WITHIN THE PROJECT AREA.

TRAFFIC CONTROLLERS/DETECTORS

SIGNAL POWER SERVICE

- BEFORE BIDDING, CONTRACTOR TO CONTACT POWER COMPANY TO DETERMINING ANY FEES ASSOCIATED WITH THE POWER FOR THIS SIGNAL RENOVATION.

CONTRACTOR SHALL INSTALL A NEW POWER SERVICE (METER, MAIN DISCONNECT), AS SHOWN IN THESE PLANS.

CONTRACTOR IS RESPONSIBLE FOR ALL FEES ASSESSED BY THE POWER COMPANY. CONTRACTOR SHALL CONTACT MONPOWER CO. AT LEAST 3 WEEKS PRIOR TO NEED FOR "APPLICATION FOR SERVICE" (800-686-0011). BID AS PART OF ITEM 660007-001(01). EXISTING METER NO. *13235724

I/S NO.	EX. METER NO.	WORK ORDER NUMBER
1	*13235724	*755389941

- THE CONTRACTOR SHALL SUPPLY THE WVDOH TRAFFIC ENGINEERING DIVISION IN WRITING THE FOLLOWING INFORMATION PRIOR TO FINALIZING PROJECT:
 - POWER SERVICE METER NUMBER
 - CABINET & CONTROLLER SERIAL NUMBERS
 - CONFLICT MONITOR/MALFUNCTIONING MONITOR UNIT SERIAL NUMBER
 - PRIORITY CONTROL SYSTEM SERIAL NUMBER
 - VEHICLE DETECTION (RPD) SERIAL NUMBERS

FOR THE NEW/RENOVATED SIGNAL INVOLVED IN THIS PROJECT. EMAIL INFORMATION TO CHRIS WILLIAMS (CHRIS.K.WILLIAMS@WV.GOV)

- THE EXISTING STOP BAR RADARS (4) SHALL BE RELOCATED TO NEW POLES AND REUSED AS SHOWN ON SIGNAL PLAN SHEET. THE EXISTING CONTROLLER, SIGNAL CABINET AND ALL ITS INTERNAL PARTS & SOFTWARE, EXISTING COMMUNICATIONS ANTENNA AND THE ITEMS LISTED BELOW SHALL BE REMOVED BY CONTRACTOR AND DELIVERED TO THE WVDOH AT THE TRAFFIC ENGINEERING SIGNAL AND LIGHTING STORAGE YARD (WVDOH TRAFFIC SIGNAL AND LIGHTING STORAGE YARD, 2266 PENNSYLVANIA AVE. CHARLESTON, WV. 25302 CONTACT: JOSH HEMSWORTH, 304-558-9445 3 DAYS BEFORE DELIVERY). THESE ITEMS SHALL BE PACKAGED SECURELY SO THEY SHALL NOT BE DAMAGED WHILE SHIPPING. DAMAGED ITEMS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. EACH OF THE FOLLOWING COMPONENTS SHALL BE LABELED WITH THE PROJECT NUMBER, THE INTERSECTION, AND SERIAL NUMBER:
 - CONTROLLER CABINET
 - CONTROLLER
 - CONFLICT MONITOR/ MALFUNCTIONING UNIT
 - PRIORITY CONTROL SYSTEM (PCS)
 - SIGNAL HEADS
 - PEDESTRIAN HEADS
 - PEDESTRIAN PUSH BUTTONS
 - COMMUNICATION EQUIPMENT/ ANTENNA

ALL ABOVE EQUIPMENT SHALL BE RETURNED IN THE SAME CONDITION AS IT WAS WHEN TAKEN FROM THE POLE AND INTERSECTION WITHIN 5 DAYS OF REMOVAL. ALL EQUIPMENT IS PRESUMED TO BE WORKING UNLESS OTHERWISE NOTED BY THE PROJECT ENGINEER. THE PROJECT ENGINEER SHALL INSPECT AND NOTE ANY DAMAGES AND TAKE THE SERIAL NUMBER OF THE ITEMS DESCRIBED ABOVE PRIOR TO SHIPPING.

ALL WORKING SIGNAL LED MODULES, PEDESTRIAN LED MODULES, PEDESTRIAN SIGNAL HOUSINGS, PEDESTRIAN PUSH BUTTONS SHALL BE RETURNED. A WORKING LED MODULE IS CONSIDERED TO BE ONE WITHOUT ANY BURNOUT LIGHTS.

- THE NEW CONTROLLER MUST PROVIDE A TRUE MENU FORMAT FOR DATA ENTRY AND OPERATIONAL MONITORING. ALL CONTROLLER PARAMETERS INCLUDING OVERLAPS MUST BE KEYBOARD PROGRAMMABLE. AS A MINIMUM, A LIGHTED FORTY (40) COLUMN BY FOUR (4) LINE LIQUID CRYSTAL DATA DISPLAY SCREEN MUST BE PROVIDED ON THE FRONT OF THE CONTROLLER. THE DISPLAY MUST BE EASILY VISIBLE IN BOTH FULL DAYLIGHT AND AT NIGHT. BACK LIGHTING THE DISPLAY IS REQUIRED.
- THE CABINET AND ALL COMPONENTS WITHIN THE CABINET SHALL BE NEW AND NOT REUSED OR REFURBISHED.
- THE NEW RADAR SENSOR UNIT RACKS TO BE CARD-RACK TYPE AND INSTALLED WITHIN THE CONTROLLER CABINET. THE RADAR SENSOR RACKS MUST HAVE A MINIMUM OF EIGHT (8) POSITIONS AND BE WIRED FOR 2 CHANNEL CONTACT CLOSURE CARD, WITH POSITIONS 7 AND 8 WIRED FOR PRIORITY VEHICLE PRE-EMPT CONTROL SYSTEMS. RACK MOUNTED POWER SUPPLY MUST ALSO BE FURNISHED WITH THESE UNITS AS WELL AS ALL ISOLATION COMPONENTS AS RECOMMENDED OR FURNISHED AS A STANDARD BY THE EQUIPMENT MANUFACTURER. BID RACKS AS PART OF ITEM 660001-001(01).
- ALL NEW SIGNAL HEAD CONDUCTOR CABLE SHALL BE IMSA BLACK PE, 20-1, 7-CONDUCTOR, 16 AWG STRANDED COPPER CABLE RATED 600V. THIS CONDUCTOR CABLE SHALL BE RED, ORANGE, GREEN, BLACK, WHITE, AND TWO (2) DIFFERING COLORS. IN ACCORDANCE WITH IMSA COLOR CODE.
- ALL TRAFFIC SIGNAL SERVICE ENTRANCE CABLE(S), FROM THE SERVICE METER TO THE WVDOH TRAFFIC SIGNAL CABINET, SHALL BE A TYPE TC, CONTROL CABINET-THIN. THIS CABLING SHALL BE RATED AT 600 VOLTS AND SHALL CONSIST OF COPPER CONDUCTORS. CONDUCTORS SHALL BE PVC/NYLON INSULATED. THE CABLING WILL HAVE AN OVERALL PVC JACKET THAT IS HEAT, MOISTURE AND SUNLIGHT RESISTANT.
- CONDUIT POST FOR PPB 3" R CONDUIT POSTS TO BE ON LEVEL GROUND, NOT ON RAMP SLOPE. BUTTON SHALL BE ACCESSIBLE FROM SIDEWALK. BUTTONS SHALL BE 10' OR LESS FROM DETECTABLE WARNING SURFACE. USE THREADED COUPLINGS TO ATTACH 3" R CONDUIT POST. SEE DETAIL 'W', SHEET SG-4.

LUMINAIRE WORK ON SIGNAL POLES

- THE NEW LUMINAIRES (1) LUMINAIRE ARMS (1) SHALL BE THE TRUSS/ CLAMP-ON TYPE AND SHALL BE SUPPLIED AND INSTALLED BY CONTRACTOR AS SHOWN IN THIS PROJECT. THESE LUMINAIRES SHALL HAVE AN INTEGRAL PHOTO-CELL.
- LUMINAIRE WIRING SHALL BE SUNLIGHT-RESISTANT, THREE CONDUCTOR #12 ISMA CABLE AND SHALL RUN CONTINUOUSLY WITH NO SPLICING OR IN-LINE FUSING. LUMINAIRE WIRING SHALL BE TAGGED AT ALL ACCESS POINTS.
- NEW LED LUMINAIRES (1) SHALL BE BID AS ITEM 662007-001 (LED). ALL OTHER ROADWAY LUMINAIRE WORK AND MATERIAL FOR LIGHTING ON SIGNAL POLES SHALL BE BID AS ITEM 662014-001(01).
- TYPE OF LED LUMINAIRE ALL NEW ROADWAY LUMINAIRES IN THIS PROJECT SHALL BE CLASSIFIED AS AN AMERICAN ELECTRIC LIGHTING (AEL) AUTOBAHN SERIES ATB2 WITH AN LED LAMP ELECTRONIC DRIVER THAT HAS A LIFE OF 100,000 HOURS AT 25 C, L70 POLYESTER POWDER-COATED ALUMINUM HOUSING, FOUR-BOLT ARM MOUNT, ALL ELECTRICAL COMPONENTS WARRANTED FOR 5 YEARS. CATALOG NUMBER - ATB2 40BLEDE10 LED MVOLT R3 5K GI PCLL (W/ INTEGRAL PHOTO-CELL) OR A WVDOH APPROVED EQUAL.
- THE SYSTEMS SHOWN SHALL BE 120/ 240 VOLT , 3 WIRE WITH GROUND, SINGLE PHASE, 60 HZ.

POLES

- POLE LOCATIONS ON THE PLAN SHEETS MAY BE ALTERED ONLY WITH THE APPROVAL OF THE WEST VIRGINIA DIVISION OF HIGHWAYS, TRAFFIC ENGINEERING DIVISION. ALL POLE RELOCATIONS MUST BE DOCUMENTED.
- ALL NEW POLE LOCATION DIMENSIONS ARE TO THE CENTER OF THE POLE FOUNDATION.
- POLE FOUNDATION SIZES SHALL BE IN ACCORDANCE WITH WEST VIRGINIA DIVISION OF HIGHWAYS STANDARD TES 30 & TES-40.
- ALL POLE COUPLINGS SHALL BE 3" WITH A WEATHERHEAD.
- ALL NEW TYPE C1(3), C1L (1) SIGNAL POLES, TYPE E1 PED POLES (3) IN THIS PROJECT AND THEIR ANCHOR BOLTS (28) ARE TO BE SUPPLIED BY THE CONTRACTOR.
- ALL CONCRETE FOUNDATIONS SHALL BE SUBJECT TO SECTION 601 OF THE WVDOH STANDARD SPECIFICATIONS ADOPTED 2017 AND SUPPLEMENTAL SPECIFICATIONS DATED JANUARY 1, 2020. TRAFFIC SIGNAL POLE FOUNDATIONS SHALL CURE FOR A MINIMUM OF SEVEN (7) DAYS OR 3000 PSI STRENGTH PRIOR TO INSTALLING THE POLE.
- NEW SIGNAL POLE FOUNDATIONS SHALL BE EXTENDED OUT OF GROUND TO BE FLUSH WITH SIDEWALK ELEVATION, UNLESS OTHERWISE NOTED IN THE PLANS. ANCHOR BOLT COVERS SHALL NOT BE INSTALLED.
- ALL NEW POLE BASES TO BE PROVIDED WITH VARMINIT SCREENS AS SHOWN ON TES41. THERE SHALL BE NO GAP BETWEEN CONNECTIONS OF VARMINIT SCREEN.
- POLE MTD. CONTROLLER CABINET TO BE AT A HEIGHT OF 3' ABOVE GROUND WITH NEW MOUNTING HARDWARE AND CONDULETS IN POSITION SHOWN IN THESE PLANS. ALL CONDULETS FROM POLE INTO THE CONTROLLER CABINET SHALL BE 3".

SIGNAL HEADS

- ALL VEHICULAR SIGNAL HEADS (1 THRU 11) SHALL HAVE CUTAWAY VISORS. SIGNAL HEADS #6, #7, #8, #9, #10 & #11 SHALL HAVE BLACK ALUMINUM LOUVERED BACKPLATES, AND HAVE ALUMINUM BODIES, DOORS AND VISORS. ALL OTHER HEADS SHALL BE NON-METALLIC AND HAVE NO BACKPLATES. BACKPLATES SHALL BE LOUVERED AND BLACK AND SHALL HAVE A RETROREFLECTIVE 1" BORDER WITH A 1" MARGIN. THIS BORDER SHALL COMPRISE OF TYPE IX FLOURESCENT YELLOW , PRESSURE SENSITIVE RETROREFLECTIVE SHEETING AND PLACED ON PERIMETER FACE OF ALL BACKPLATES.
- ALL NEW VEHICULAR SIGNAL SECTIONS SHALL UTILIZE LIGHT EMITTING DIODE (LED) SIGNAL MODULES AT 120 VAC. ALL UNITS SHALL NOT MORE THAN 22 WATTS POWER CONSUMPTION.
- ALL NEW L.E.D. TRAFFIC SIGNAL MODULES SHALL BE BID INCIDENTAL TO ITEM 660003-001(G-16) AND 660003-006(V-12) AS APPLICABLE.
- ALL TRAFFIC SIGNAL MODULES SHALL CONFORM TO THE WVDOH SPECIFICATION CONCERNING L.E.D. SIGNAL MODULES.
- SEE THE WVDOH "APPROVED PRODUCTS LIST" (APL) FOR APPROVED L.E.D. MANUFACTURERS.
- VERTICAL CLEARANCE OF 17' (+OR-3") TO BE MAINTAINED TO THE BOTTOM OF ALL SIGNAL HEADS.
- ALL MODULES SHALL CONFORM TO THE ITE VTCSH-L.E.D. CIRCULAR SIGNAL SUPPLEMENT, THE ITE VTCSH PART 3, AND THE ITE PTCSE-2 REQUIREMENTS. FROM THE DATE OF INSTALLATION ALL UNITS MUST COME WITH A STANDARD 5 YEAR WARRANTY.
- ALL NEW SIGNAL HEAD ATTACHMENT CLAMPS SHALL BE MADE OF STEEL.

PEDESTRIAN CONTROL SIGNAL HEADS (TYPE G-16)

- (COUNTDOWN TYPE LED PED MODULES - SEE 'APL' LIST) THESE SPECIFICATIONS COVER SYMBOLIC PEDESTRIAN SIGNAL ASSEMBLIES TO BE ILLUMINATED BY LED LAMPS MOUNTED BEHIND A SINGLE LENS, WITH ONLY ONE SYMBOL DISPLAYED PER PEDESTRIAN INTERVAL. EACH SYMBOL (HAND and WALKING PERSON) SHALL BE A MINIMUM OF 11" HIGH AND MEET THE LATEST REVISION OF ITE STANDARDS. THE MESSAGE BEARING SURFACE OF THE LENS SHALL BE A MINIMUM OF 18" X 17". ALL OTHER REQUIREMENTS OF THE CURRENT WEST VIRGINIA STANDARD SPECIFICATIONS FOR PEDESTRIAN CONTROL SIGNAL HEADS NOT SPECIFICALLY ADDRESSED HEREIN, WHERE APPLICABLE, SHALL BE INCLUDED AS PART OF THIS STANDARD. SYMBOLIC DISPLAY IS TO BE A HORIZONTAL, HAND/WALKING PERSON. BID AS ITEM 660003-001 ONE SECTION PER HEAD ASSEMBLY. THESE PEDESTRIAN HEADS SHALL BE BLACK IN COLOR.

RPM - MOUNTING BRACKET ON "NUMBER" SIDE OF HEAD
LPM - MOUNTING BRACKET ON "SYMBOL" SIDE OF HEAD
TPM - TOP POLE MOUNT

- GENERAL DESIGN REQUIREMENTS (TYPE G-16) THE NORMAL SIZE OF THE SIGNAL LENS SHALL BE 16".

- HOUSING THE HOUSING SHALL BE DIE CAST ALUMINUM WITH DROP DOWN LENS DOOR. TOP AND BOTTOM MUST BE PROVIDED WITH CLOSABLE OPENING OR KNOCKOUT FOR STANDARD 1.5 INCH PIPE BRACKETS WITH INTERLOCK SURFACE. SIDE-OF-POLE HINGE MOUNTED BRACKET SHALL BE PROVIDED WITH INTERNAL SCREW TERMINAL UNLESS OTHERWISE SPECIFIED. SIDE-OF-POLE MOUNT INSTALLATIONS MUST BE ATTACHED WITH TOP SCREWS AND HINGE BRACKETS AS SHOWN ON THE PLAN. BANDING AND PIPE MOUNTING BRACKETS ARE NOT TO BE USED, UNLESS CALLED FOR ON THE PLANS. POLE MOUNTING ADJUSTMENTS MUST BE PROVIDED FOR THE BRACKETS BOTH HORIZONTALLY AND VERTICALLY.

- SUN VISOR A SLANTING GRID PATTERN LENS VISOR TO DEFEAT THE EFFECT OF SUN GLARE AND AS PROTECTION AGAINST PHYSICAL DAMAGE SHALL BE ATTACHED IN FRONT OF THE PEDESTRIAN DISPLAY. THE GRID MUST BE MADE OF 0.030 INCH THICK BLACK IMPREGNATED POLYCARBONATE PLASTIC AND HAVE AN ON-END THICKNESS OF 1.5 INCHES. THE LENS MUST BE READILY REMOVABLE WITHOUT THE USE OF A SPECIAL TOOL.

- LAMPS TYPE G-16 PEDESTRIAN HEAD LAMPS MUST BE LED.

SG-2

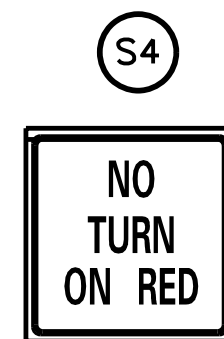


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SIGNAL NOTE SHEET NO. 1
VAN VOORHIS RD. AT CHESTNUT RIDGE RD.
MORGANTOWN, MONONGALIA CO.

6/29/2020
SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (023)D	2020	MONONGALIA	196	301



R10-11B
LED BLANK-OUT SIGN
(2.0'x2.0')

LED BLANK-OUT SIGN (R10-11B, 2' X 2') 1 EACH

- A. LED BLANK-OUT SIGN SHALL BE ILLUMINATED SIMULTANEOUSLY WITH THE EXCLUSIVE PED PHASE. (WALK AND PED CLEARANCE INTERVALS) PEDESTRIAN PUSH BUTTONS SHALL ACTIVATE THE EXCLUSIVE WALK PHASE AND ACTIVATE THE ILLUMINATION OF THE LED BLANK-OUT SIGN.
- B. LED BLANK-OUT SIGN MESSAGE SHALL BE WHITE, DISPLAYED ON ONE SIDE ONLY.
- C. COMPLIANCE WITH APPLICABLE MUTCD/ITE SPECIFICATIONS ON LED SIGNAL.
- D. MINIMUM OF 30 DEGREE VIEWING ANGLE CENTERED OPTICAL AXIS.
- E. COMPLETE BLANK-OUT WHEN DE-ENERGIZED.
- F. MIL-STD-833 MECHANICAL VIBRATION.
- G. STAINLESS STEEL FASTENERS AND HARDWARE.
- H. LED BLANK-OUT SIGNS SHALL CONSIST OF WEATHERPROOF HOUSING AND DOOR.
- I. SEE LED BLANK-OUT SPECIAL PROVISIONS.
- J. TRASTAR MODEL JXM-BLK_----- OR WVDOH APPROVED EQUIVALENT.
- K. BLANK-OUT SIGN, CABLE MOUNTING HARWARE, NECESSARY CABLE AND ALL WORK RELATED TO INSTALLING THIS SIGN SHALL BE BID AS PART OF ITEM 660007-001(01).
- I. ATTACHMENT OF THIS LED BLANK-OUT SIGN TO THE SIGNAL MESSENGER CABLE SHALL BE AS RECOMMENDED BY MANUFACTURER AND APPROVED BY THE WVDOH.

TRAFFIC SIGNAL WORK DESCRIPTION

- I/S NO. 1, VAN VOORHIS RD. AT CHESTNUT RIDGE RD.

1. THIS IS AN EXISTING SIGNAL TO BE MODIFIED AS FOLLOWS:
2. THE CONTRACTOR SHALL REMOVE THE EXISTING NOTED SIGNAL COMPONENTS AS PER THE GENERAL NOTES AND DELIVER THEM TO THE WVDOH ACCORDINGLY. ALL OTHER EXISTING SIGNAL EQUIPMENT (NOT TO BE RELOCATED AS NOTED BELOW) TO BE REMOVED AND PROPERLY DISPOSED OF BY CONTRACTOR. BID ALL SIGNAL REMOVAL AS PART OF ITEM 660007-001(01).
3. THE FOLLOWING EXISTING SIGNAL EQUIPMENT SHALL BE RELOCATED TO THE NEW SIGNAL POLES AS DESCRIBED IN THESE PLANS:
 - A. STOP BAR RADAR SENSORS W/SPLICE BOX (4 EACH)W/ NEW MTG. HARDWARE THIS EXISTING EQUIPMENT TO BE RELOCATED AND REWIRED TO MAKE FUNCTION PROPERLY. ALL OTHER NECESSARY RADAR EQUIPMENT (CABLE, CLOSURE CARDS, RADAR PREASSEMBLED BACKPLATE & MISC. RADAR HARDWARE) TO BE SUPPLIED AND INSTALLED PROPERLY BY CONTRACTOR
- BID THE RELOCATION OF THE EXISTING STOP BAR RADAR SENSORS (RPD), THEIR EQUIPMENT AND ALL CABLE/ HARDWARE NECESSARY FOR THESE RELOCATIONS AND ITS PROPER INSTALLATION & OPERATION AS PART OF ITEM 660007-001(01).
4. EXISTING SIGNAL POLES P1A, P2A P3A, & P4A SHALL BE REMOVED AND BECOME THE CONTRACTORS PROPERTY TO PROPERLY DISPOSE OF. THE EXISTING FOUNDATIONS FOR THESE POLES SHALL BE REMOVED TO 12" BELOW GROUND AND AREA FILLED WITH SUITABLE MATCHING MATERIAL. BID AS PART OF ITEM 660007-001(01).
5. INSTALL NEW POLES P1, P2 & P3 (3-TYPE C1), P4 (1-TYPE C1L) AND P5, P6 & P7 (3-TYPE E1) AND THEIR ANCHOR BOLTS ON NEW FOUNDATIONS AS SHOWN IN THESE PLANS.
6. CONTRACTOR SHALL SUPPLY AND INSTALL A NEW CONTROLLER AND CONTROLLER CABINET ON NEW POLE P3 AS SHOWN IN THESE PLANS. BID NEW CONTROLLER AND CABINET AS ITEM 660001-001(01).
7. NEW LED LUMINAIRE TO BE INSTALLED ON NEW TYPE C1L POLE P4.
8. PROPERLY REMOVE EXISTING POWER SERVICE (#13235724) ON EXISTING POLE P1. INSTALL NEW POWER SERVICE (METER, MAIN DISCONNECT) ON NEW POLE P3.
9. INSTALL NEW VEHICULAR SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, MESSENGER CABLE/ CLAMPS, CONDUCTOR CABLE, JUNCTION BOXES AND CONDUIT AS SHOWN IN THESE PLANS.
10. INSTALL NEW AUDIBLE PED BUTTONS/ SIGNS (10) AND CONDUIT POSTS (6) FOR PEDS AS SHOWN.
11. A NEW PRIORITY CONTROL SYSTEM (D4) SHALL BE INSTALLED AS SHOWN IN THESE PLANS AND AS DETAILED IN PLANS AND SPECIFICATIONS. (4 PCS DETECTOR, 2 PCS INTERFACE)
12. NEW PROTECTIVE POSTS (GALVANIZED, 6", SCHEDULE 40) SHALL BE INSTALLED AS SHOWN IN THESE PLANS. (5 EACH)
13. INSTALL CELLULAR COMMUNICATIONS AS DESCRIBED ON SHEET SG-7 OF THESE PLANS.
14. INSTALL SIGNS (3 EACH: 0.080 FLAT SHEET ALUMINUM) AND THEIR MESSENGER CABLE MOUNTING HARDWARE IN POSITION SHOWN IN THESE PLANS. THESE SHALL BID AS PART OF SIGNING BID ITEMS.
15. INSTALL A 2' X 2' R10-11B LED BLANK-OUT SIGN AS SHOWN IN THESE PLANS. BID AS PART OF ITEM 660007-001(01). TO INCLUDE SIGN, CABLE, CABLE MOUNTING HARDWARE AND ALL WORK NECESSARY TO PROPERLY INSTALL. SEE NOTES ON THIS SHEET.

ESTIMATE OF QUANTITIES

VAN VOORHIS RD. AT CHESTNUT RIDGE RD. (I/S *1)

LIST	QUANTITY	DESCRIPTION
1	1	INTERSECTION CONTROLLER - 660001-001(01) TYPE C
2	1	SIGNAL MONITORING DEVICE
3	1	CONTROLLER & DETECTOR CABINET UNIT (POLE MOUNT) - INSTALL IN POSITION SHOWN ON PLAN SHEET
4	* 4	STOP BAR RADAR SENSORS (RPD) W/ SPLICE BOX - 4 POLE MTD. (SEE NOTES THIS SHEET)
5	AS NEEDED	RADAR SENSOR CONTACT CLOSURE CARDS
6	AS NEEDED	RADAR SENSOR CABLE AND HARDWARE
7	1	RADAR SENSOR PREASSEMBLED BACKPLATE
8	AS NEEDED	MISCELLANEOUS HARDWARE & ITEMS
9	AS NEEDED	CONDUIT, (GALVANIZED STEEL, GSC, PVC)
10	AS NEEDED	CONDUCTOR CABLE, MESSENGER CABLE
11	AS NEEDED	ISOLATED RELAYS
12	1	POWER SERVICE
13	3	ALUMINUM PED POLE, TYPE E1 -W/ ANCHOR BOLTS ON NEW FOUNDATION
14	3	SIGNAL POLE, TYPE C1 -W/ ANCHOR BOLTS ON NEW FOUNDATION
15	1	SIGNAL POLE, TYPE C1L -W/ ANCHOR BOLTS ON NEW FOUNDATION, W 20' LUMINAIRE ARM
16	6	ONE-WAY 3 SECTION 12" R.Y.G.: SW
17	2	ONE-WAY 3 SECTION 12" R, ←.Y ←.G ←. :SW
18	2	ONE-WAY 5 SECTION 12" R, Y.G, Y, ←.G, ←. :SW
19	1	ONE-WAY 3 SECTION 12" R, →.Y →.G →. :SW
20	6	ONE-WAY 1-SECTION WALK, DON'T WALK, LED, 16" W/GRID, (5-RPM: 1-TPM) (TYPE G-16) COUNTDOWN TYPE - SEE 'APL' LIST
21	2	TWO-WAY 1-SECTION WALK, DON'T WALK, LED, 16" W/GRID, (2-TPM) (TYPE G-16) COUNTDOWN TYPE - SEE 'APL' LIST
22	1	JUNCTION BOX, TYPE H, 10" X 10"
23	6	JUNCTION BOX, TYPE H, 18" X 18"
24	6	3" RIGID GALVANIZED STEEL CONDUIT POST FOR PPB
25	1	LED LUMINAIRE
26	10	AUDIBLE PEDESTRIAN PUSH BUTTON (SEE PPB NOTES ON SHEET SG-1)
27	10	PEDESTRIAN SIGNS 5 EA.-R10-4AR, 5 EA. -R10-4AL 0.080" FLAT SHEET ALUMINUM , BID AS PART OF ITEM 660007-001(01)
28	4	PCS DETECTOR W/CONFIRMATION LIGHT
29	2	PCS INTERFACE (RACK MTD.)
30	5	6" GALVANIZED STEEL PROTECTIVE POST, SCHEDULE 40 - SEE DETAIL 'D' SHEET SG-4
31	3	0.080 FLAT SHEET ALUMINUM SIGNS AND CABLE MOUNTING HARDWARE (2- R10-12; 1- R10-5L)- BID WITH SIGNING ITEMS
32	1	R10-11B, LED BLANK-OUT SIGN (TRASTAR JXM-BLK_-----), CABLE AND CABLE MTG. HARDWARE, 2' X 2' - BID AS PART OF ITEM 660007-001(01)

* - NOTED MATERIAL IS EXISTING TO BE PROPERLY RELOCATED BY CONTRACTOR AS NOTED ON PLANS

SG-3

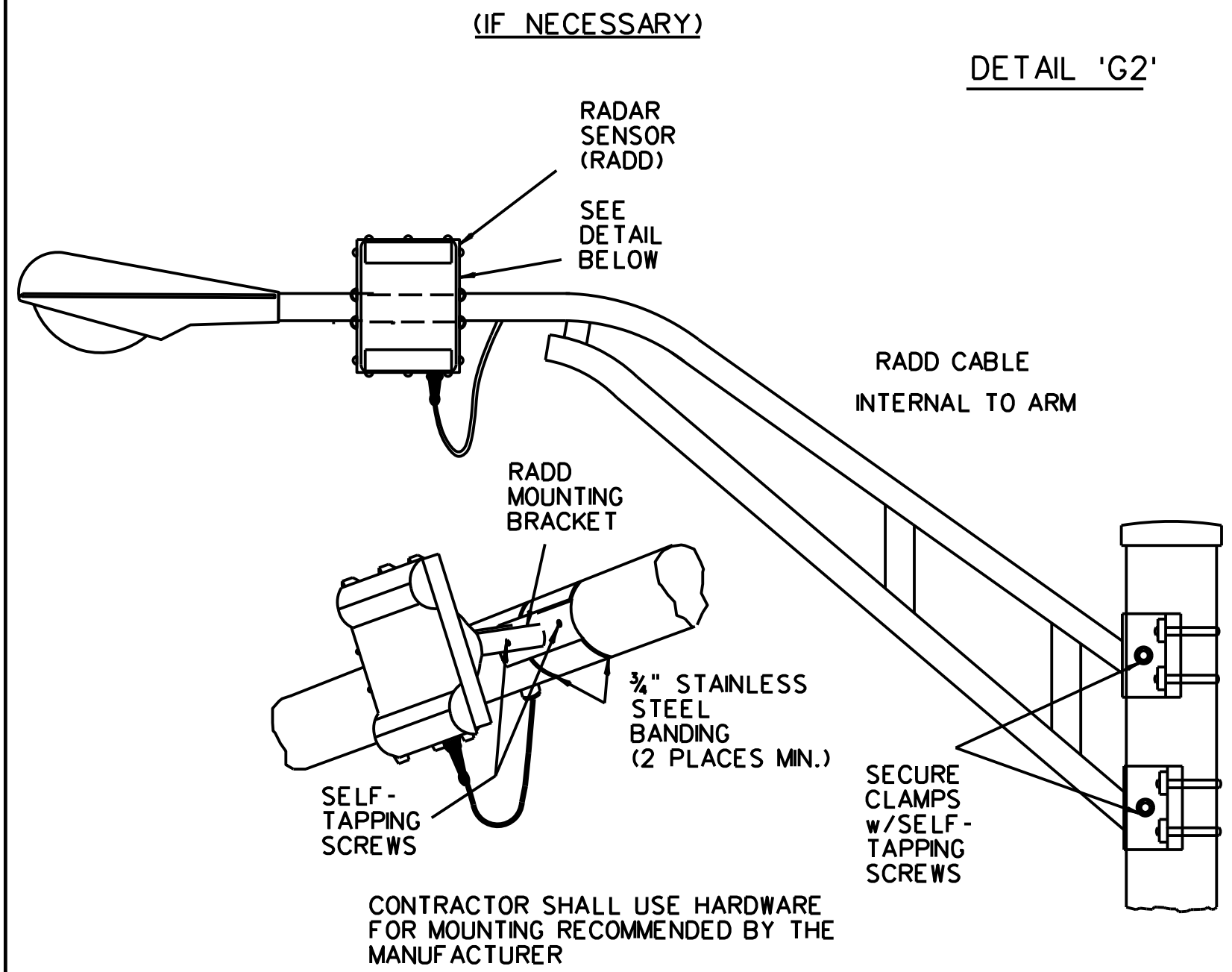
		THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION				
		DIVISION OF HIGHWAYS				
A MORTON THOMAS AND ASSOCIATES, INC. 417 GRAND PARK DRIVE, SUITE 104 PARKERSBURG, WV 26101		REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

SIGNAL NOTE SHEET NO. 2
VAN VOORHIS RD. AT CHESTNUT RIDGE RD.
MORGANTOWN, MONONGALIA CO.

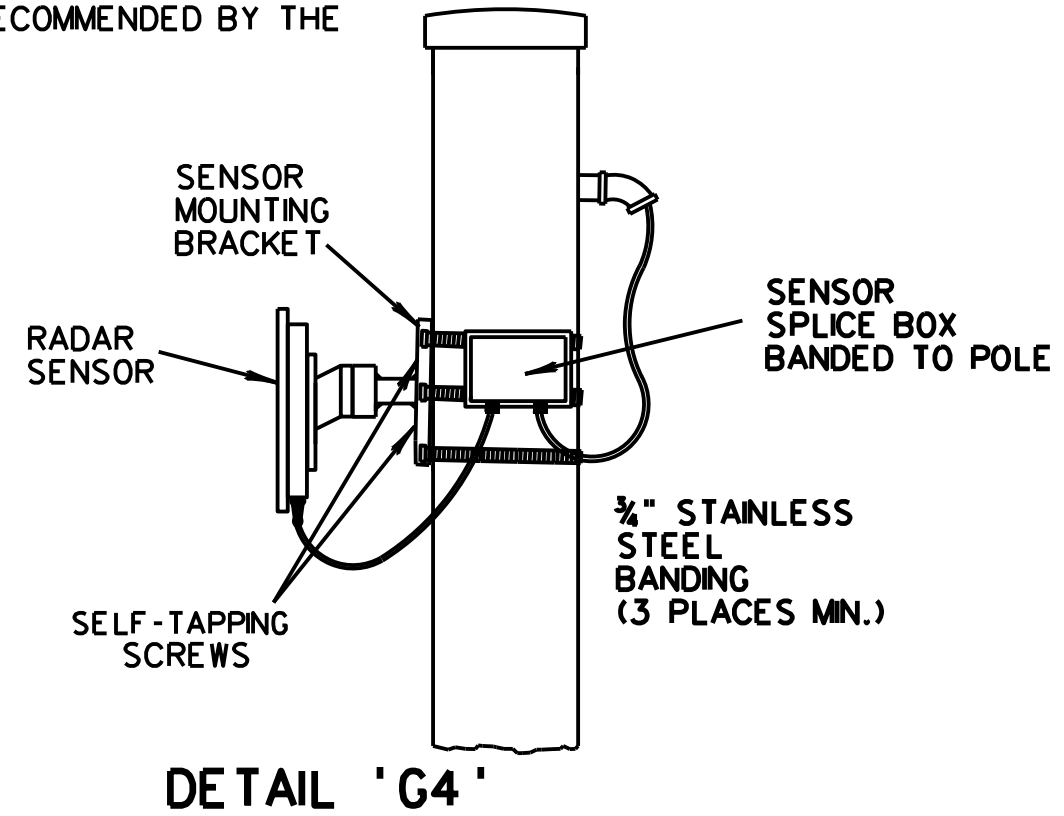
SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	198	301

RADAR SENSOR (RPD) MOUNTED ON LUMINAIRE ARM
(IF NECESSARY)



CONTRACTOR SHALL USE HARDWARE FOR MOUNTING RECOMMENDED BY THE MANUFACTURER

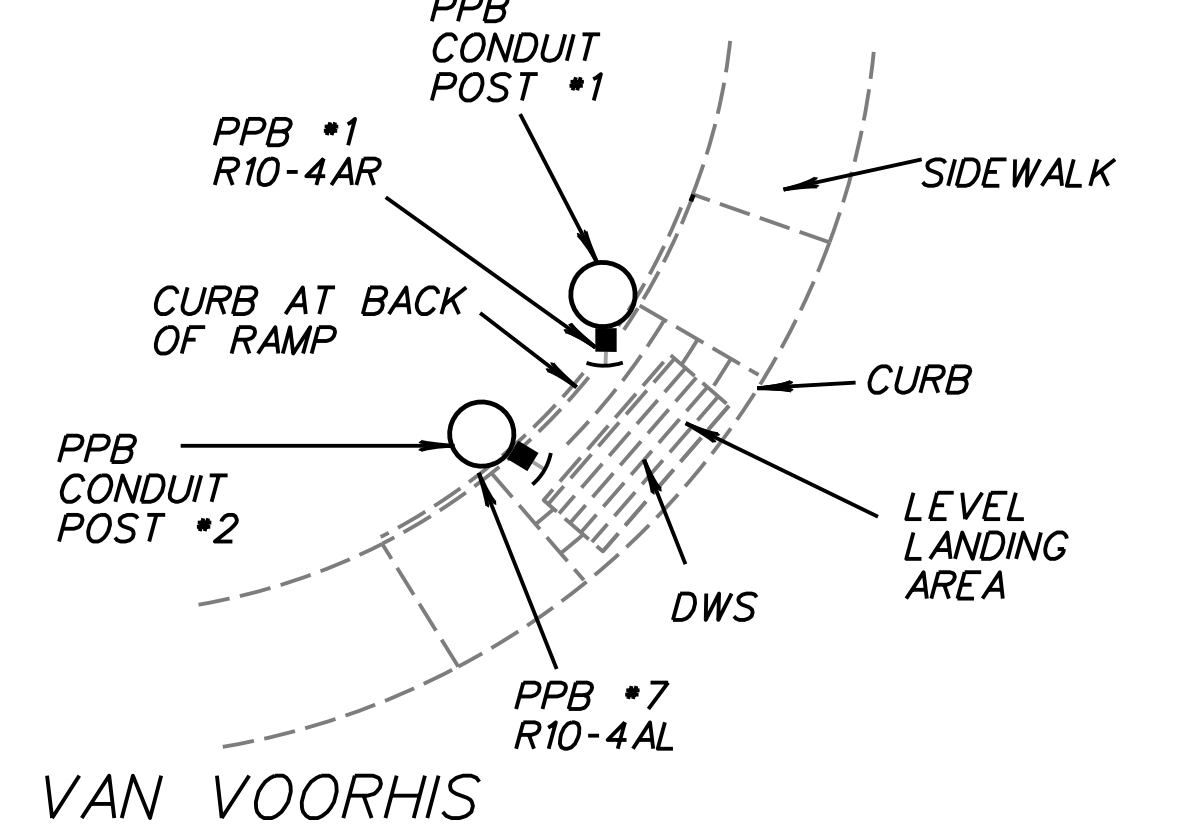


DETAIL 'G4'
RADAR SENSORS (4) MTD. ON UPRIGHT POLE

- NO SCALE -

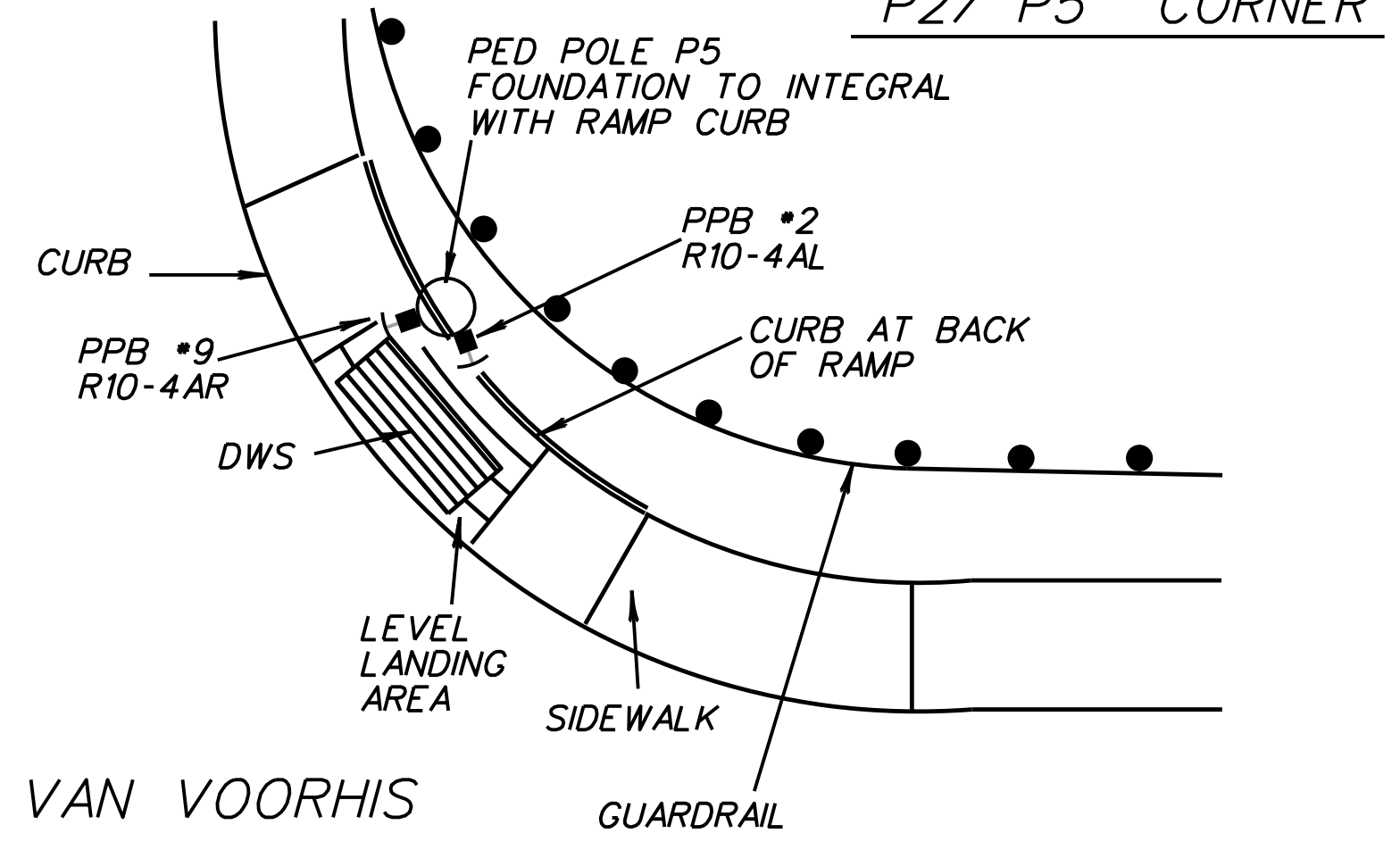
PPB LOCATION & ACCESSIBILITY DETAILS
- NOT TO SCALE -

P3 CORNER



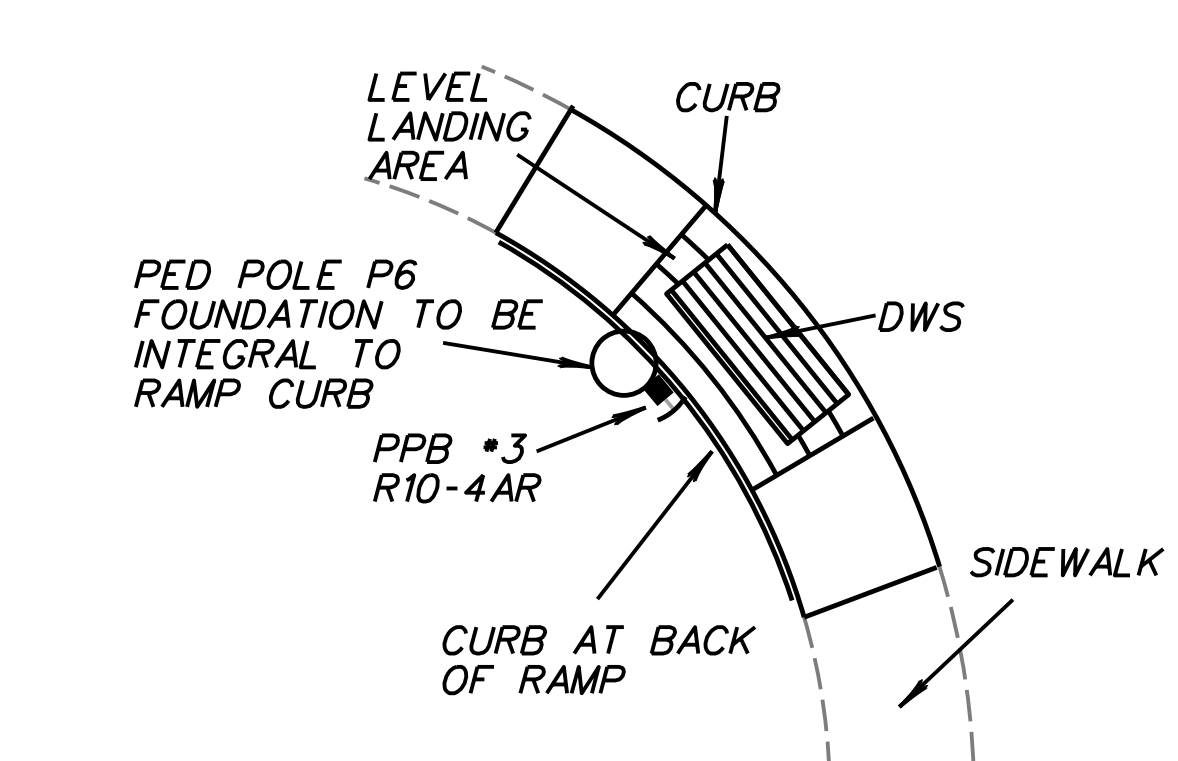
VAN VOORHIS

P2/ P5 CORNER



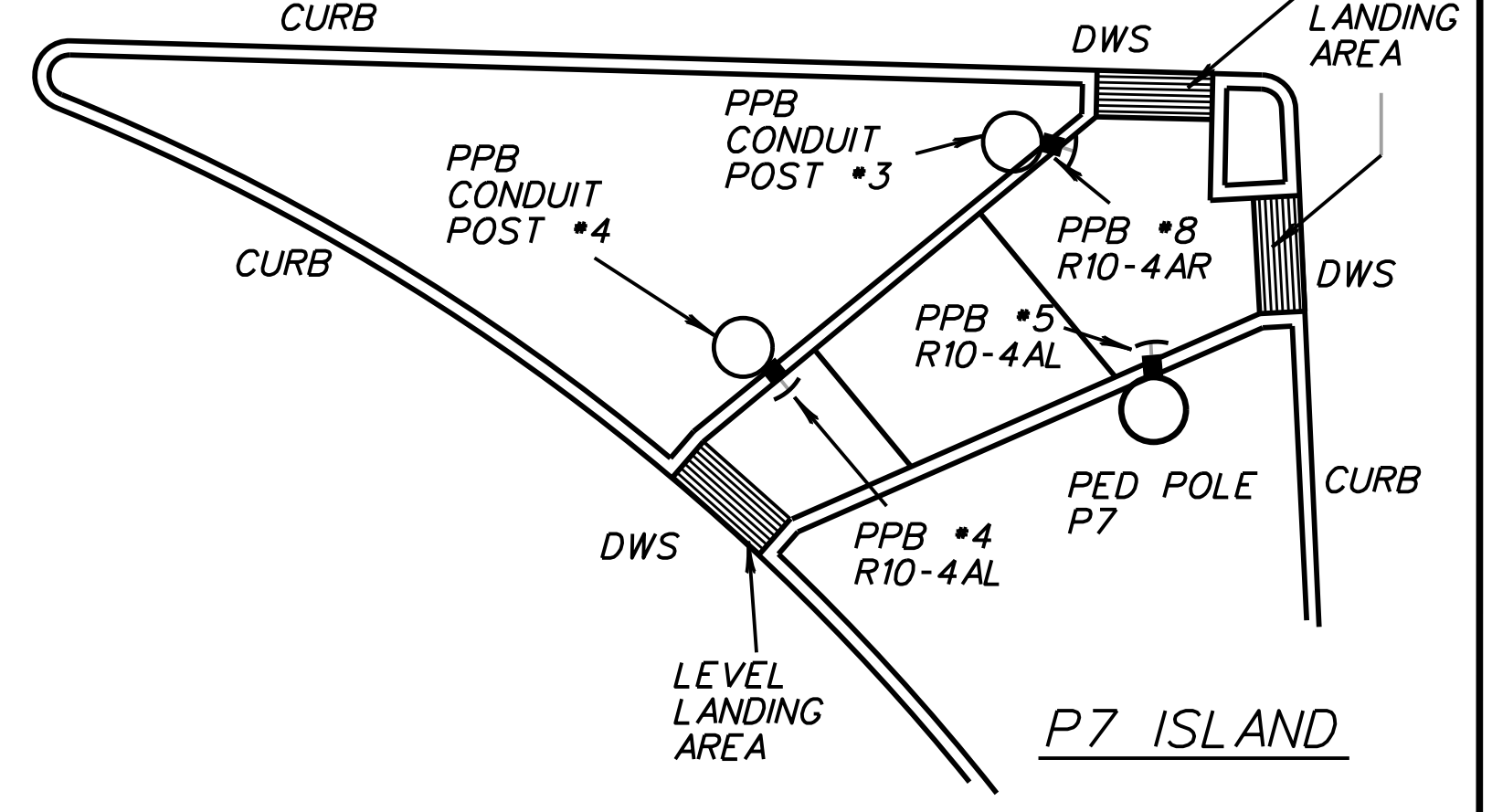
VAN VOORHIS

VAN VOORHIS



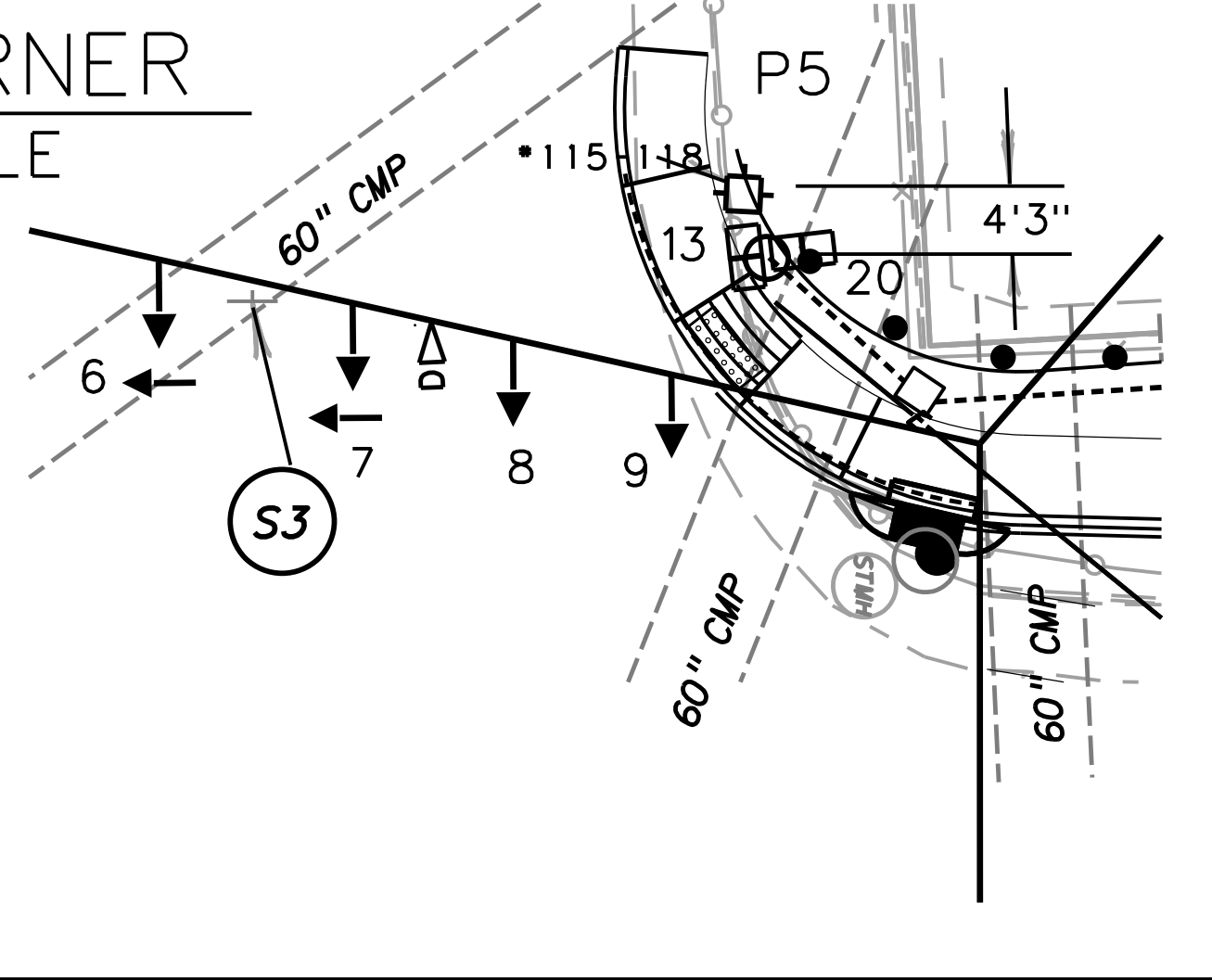
P4/ P6 CORNER

VAN VOORHIS

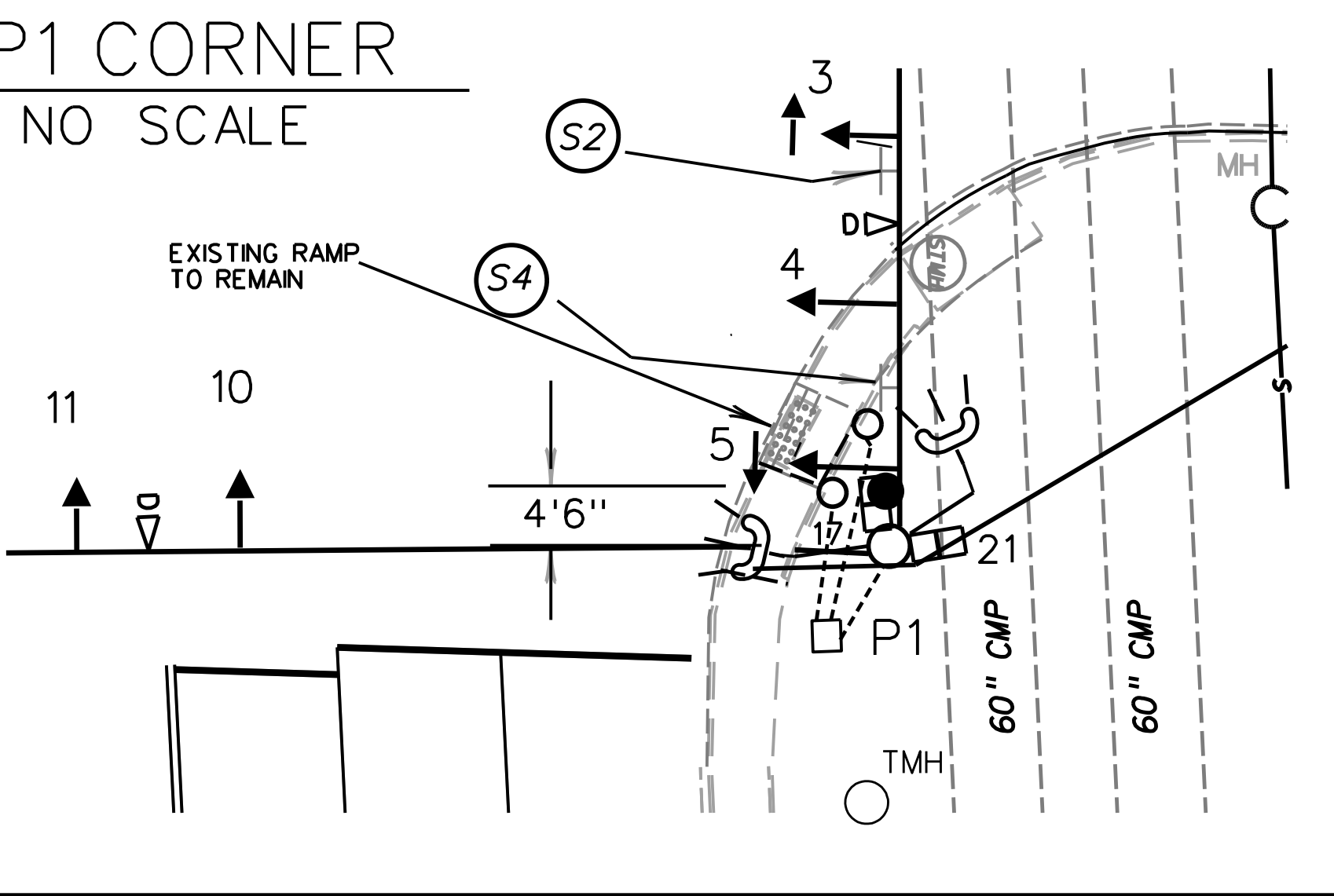


P7 ISLAND

P5 CORNER
NO SCALE

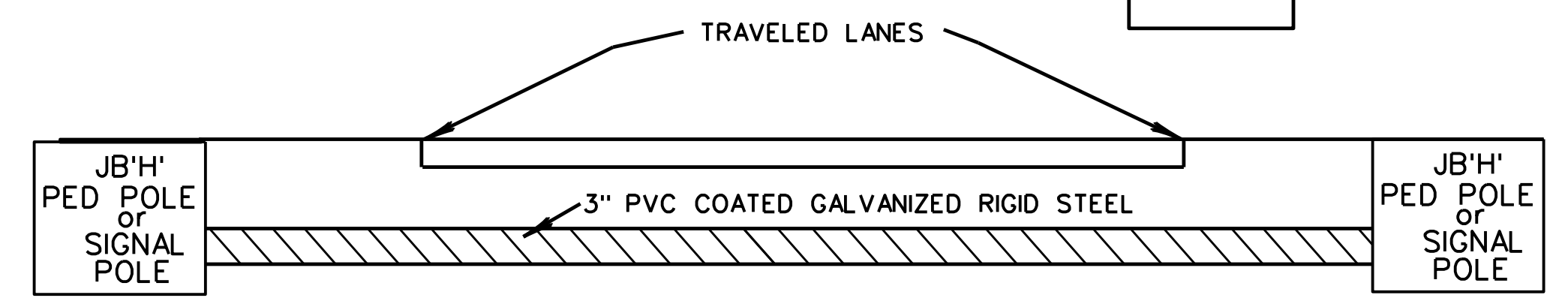


P1 CORNER
NO SCALE



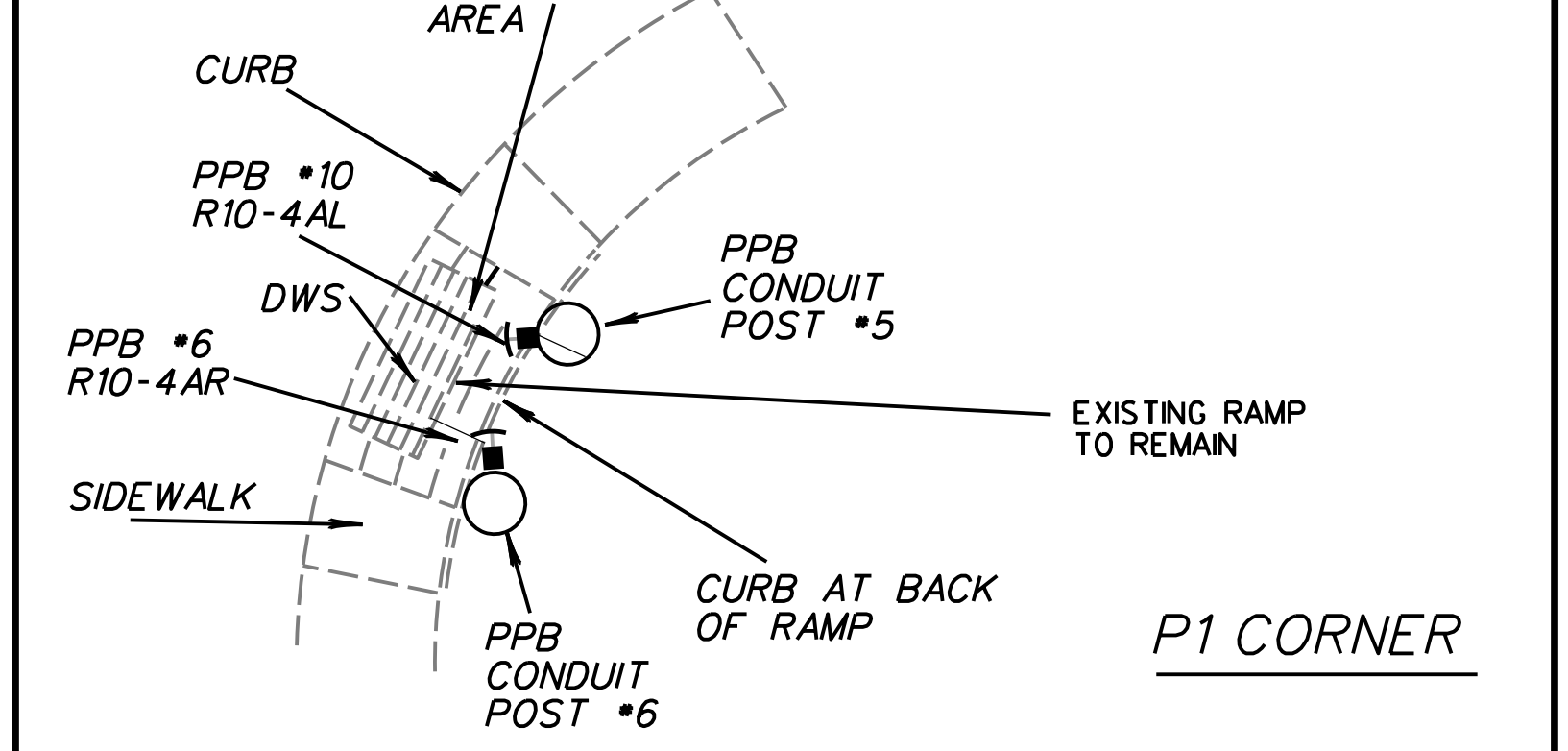
DETAIL 'C'
TYPICAL CONDUIT CROSSING UNDERNEATH TRAVELED LANES

TOTAL LENGTH 1/2 OF PVC (GSC) = 50 LF



- SPECIFICATIONS:
- 3" GALVANIZED RIGID STEEL CONDUIT
 - 2 mil RED URETHANE INTERIOR COATING
 - 40 mil GRAY PVC EXTERIOR COATING
 - INSTALL PER MANUFACTURERS INSTRUCTIONS
 - BID AS PART OF ITEM 662002-001, GALVANIZED STEEL CONDUIT PER SYSTEM

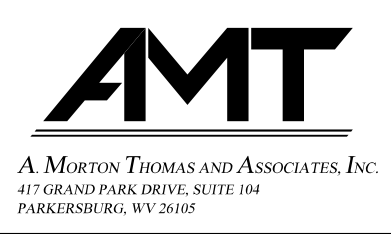
VAN VOORHIS



P1 CORNER

SG-5

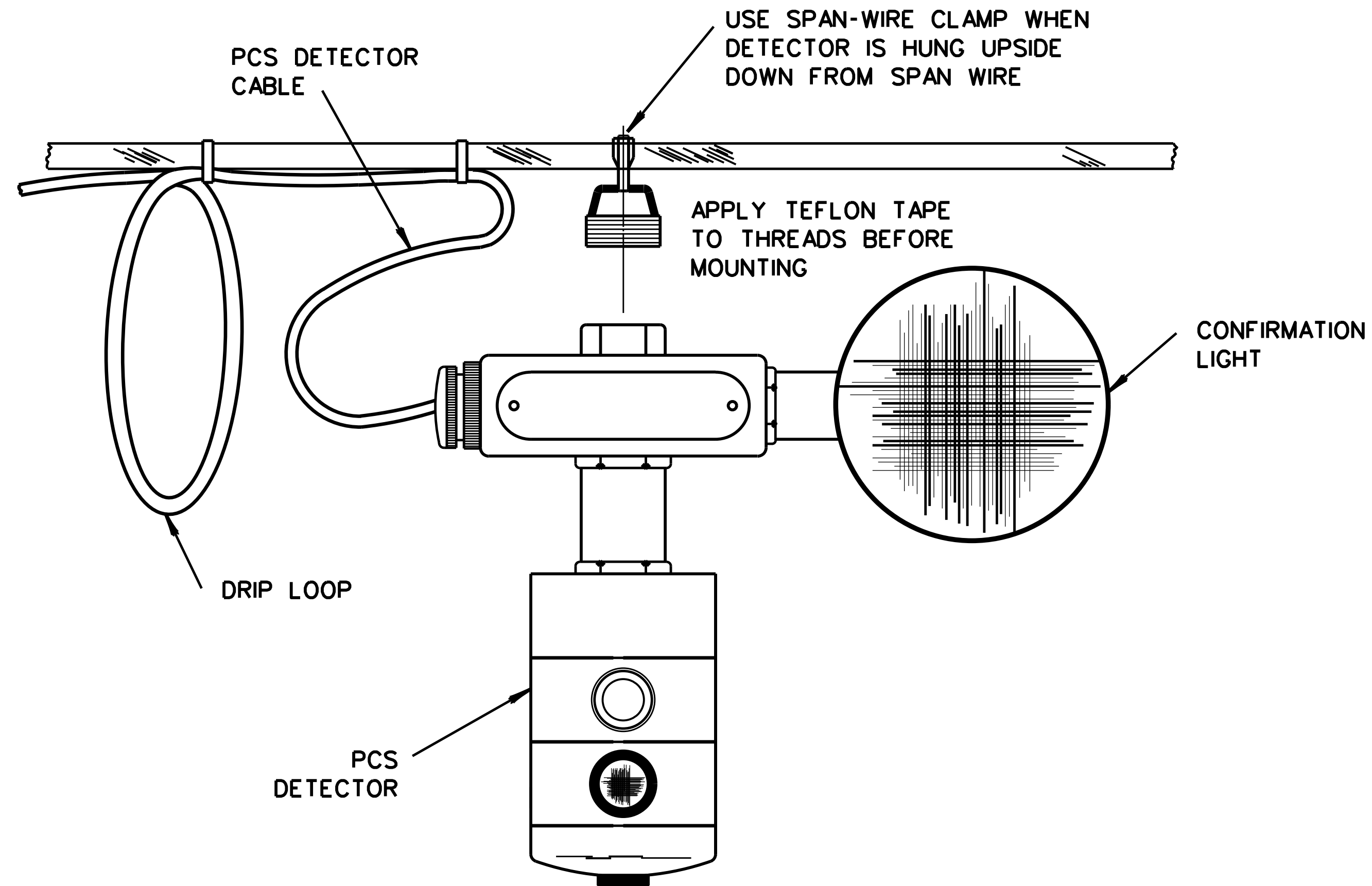
SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SIGNAL DETAIL SHEET NO. 2
VAN VOORHIS RD. AT CHESTNUT RIDGE RD.
MORGANTOWN, MONONGALIA CO.

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	199	301



PCS SPAN WIRE INSTALLATION (1/S • 1)

1. WEEP HOLE(S) MUST BE REMOVED PRIOR TO INSTALLATION. CONTRACTOR IS FULLY LIABLE FOR EQUIPMENT REPLACEMENT DUE TO CORROSION.
2. A DRIP LOOP IS TO BE PROVIDED ADJACENT TO RECEIVER.
3. TEFLON TAPE IS TO BE USED ON ALL PCS RECEIVER THREADED CONNECTIONS.

PRIORITY CONTROL SYSTEM (PCS)
 BID AS ITEM 660010-001(*) - SEE BELOW

THE PRIORITY CONTROL SYSTEM SHALL PROVIDE ADVANCE SIGNAL CONTROL PER INTERSECTION APPROACH AS SHOWN ON THE PLAN SHEETS. THE SYSTEM CONSISTS OF DETECTORS w/CONFIRMATION LIGHT (4 EA.), CARD RACK MOUNTED SIGNAL INTERFACE UNITS (2 EA.), AND NECESSARY WIRING. THIS ALSO INCLUDES MOUNTING HARDWARE AND OTHER HARDWARE ITEMS TO COMPLETE SYSTEM.

THE INTERFACE UNIT WILL THEN INPUT A CALL TO THE CONTROLLER FOR A PROGRAMMED PREEMPTION ROUTINE. THE TRANSMIT/RECEIVE DISTANCE FOR EACH INTERSECTION APPROACH MUST BE USER PROGRAMMABLE AND WILL BE THE RESPONSIBILITY OF THE DIVISION OF HIGHWAYS TO BE DETERMINED AND SET. A MEANS FOR ADJUSTMENT OF THE TRANSMIT/RECEIVE DISTANCE PER APPROACH MUST BE PROVIDED WITH THE SYSTEM. PCS UNITS WILL BE PAID FOR AS ITEMS 660010-001 - "PCS DETECTORS", EACH.

* D1, D2, D3, D4
 CODE REPRESENTS NO. OF DETECTORS TO BE INSTALLED.
 BID PER INTERSECTION

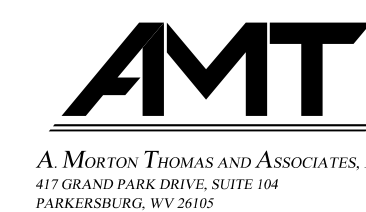
ALSO SEE INDIVIDUAL 1/S SHEETS FOR 1/S QUANTITIES FOR FURTHER DETAILS. EXACT LOCATION AND AIM OF PCS DETECTORS TO BE DETERMINED BY THE PROJECT ENGINEER.

SEE 'APL' LIST FOR APPROVED PRIORITY CONTROL SYSTEMS FOR THIS PROJECT.

NEW SYSTEM SHALL HAVE THE SAME FREQUENCY AS THE EXISTING MORGANTOWN FIRE DEPT. CONTACT CHIEF MARK CARAVASOS (304-284-7481).

SG-6

SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 PCS NOTES AND DETAILS
 VAN VOORHIS RD. AT CHESTNUT RIDGE RD.
 MORGANTOWN, MONONGALIA CO.

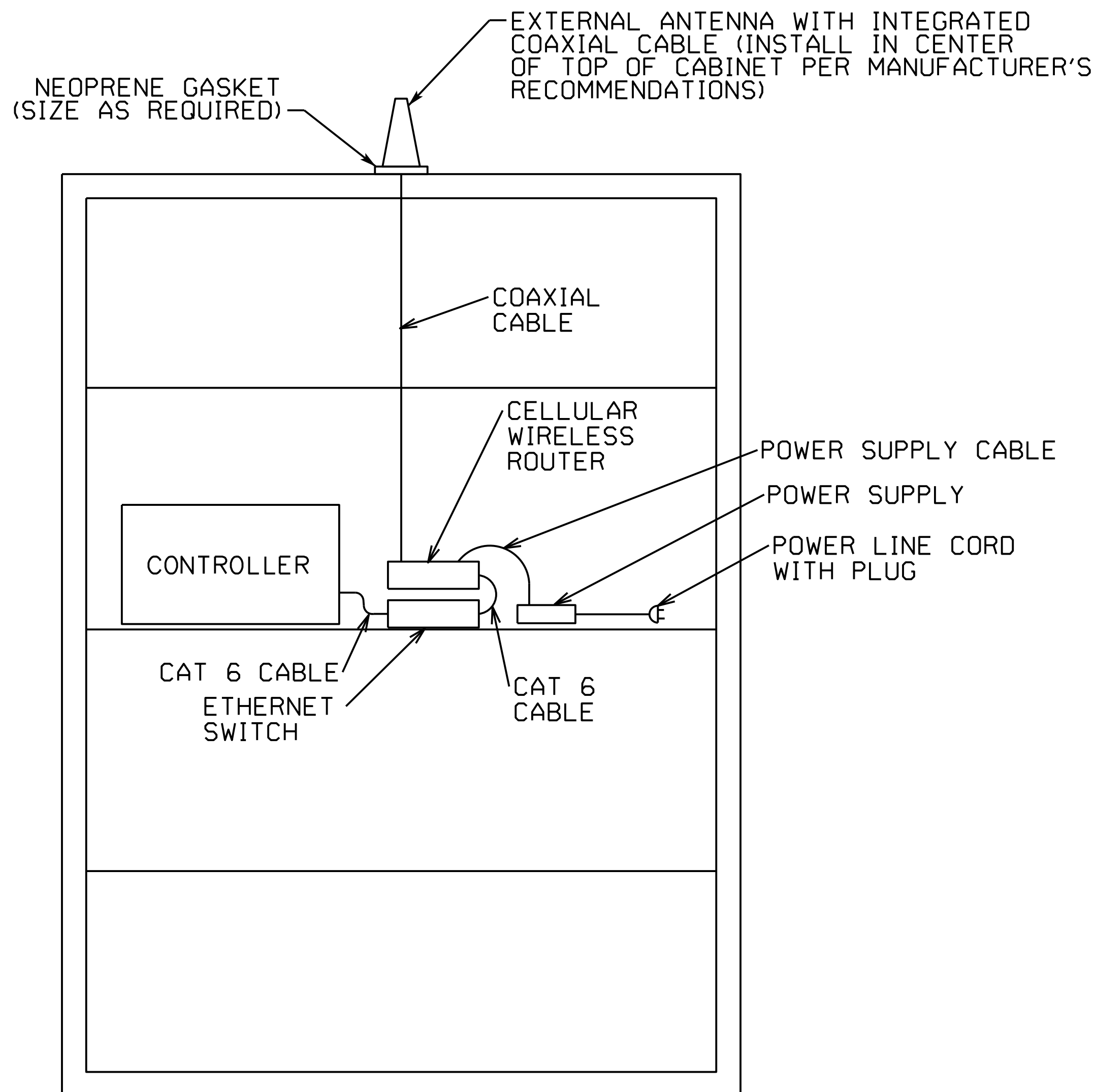
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0237D)	2020	MONONGALIA	200	301

CELLULAR INTERCONNECT NOTES

GENERAL NOTES

- TELEMETRY CELLULAR COMMUNICATION SHALL BE UTILIZED FOR CONNECTIVITY TO THIS INTERSECTION. THE TELEMETRY CONNECTION SHALL BE GIVEN A HIGH PRIORITY. THE TELEMETRY CELLULAR COMMUNICATION IS A CELLULAR WIRELESS ROUTER WITH SIM CARD THAT UTILIZES THE AT&T WIRELESS NETWORK. THE CONTRACTOR SHALL CONTACT THE SIGNAL ENGINEER (DANIEL ELLARS AT 304-414-7332) AT LEAST ONE (1) MONTH PRIOR TO NEW CONTROLLER INSTALLATION TO COMMISSION CONNECTIVITY WITH AT&T.
- WIRELESS CELLULAR ROUTER SPECIFICATIONS [ITEM 660060-001 (*) MISCELLANEOUS RADIO INSTALLATION • PER INTERSECTION]:
 - CARRIER APPROVAL: AT&T
 - SUPPORT TECHNOLOGY: 4G LTE
 - COMPLY WITH IEEE 802.11
 - PROVIDE SIM INTERFACE
 - PROVIDE STATIC IP ADDRESS
 - HOST INTERFACES:
 - THREE (3) 10/ 100 BASE-T RJ45 ETHERNET PORTS
 - RS-232 SERIAL PORT ON DB-9 CONNECTOR
 - USB 2.0 CLIENT MICRO-B CONNECTOR
 - THREE (3) SMA ANTENNA CONNECTORS (PRIMARY, SECONDARY/ DIVERSITY, GPS)
 - ACTIVE GPS ANTENNA
 - ETHERNET CONNECTIONS: DNS, DNS PROXY, DHCP SERVER, IP PASSTHROUGH, VLAN, HOST INTERFACE WATCHDOG, PPPoE
 - MANAGEMENT INTERFACE: PROVIDE WEB-BASED USER INTERFACE WITH OVER-THE-AIR SOFTWARE AND RADIO MODULE FIRMWARE UPDATES
 - PROVIDE IP64 RATED INGRESS PROTECTION
 - PROVIDE IEC60950 CERTIFICATION BODIES SCHEME (CB SCHEME) UL60950
 - PROVIDE ENVIRONMENTAL : RoHS, REACH, WEEE
 - PROVIDE 5-YEAR MANUFACTURER'S WARRANTY
- ETHERNET SWITCH SPECIFICATIONS (PER EACH):
 - PROVIDE MANAGED ETHERNET SWITCH. BID AS PART OF ITEM 660060-004
 - NETWORK INTERFACE: 10/ 100 BASE-TX
 - ENCLOSURE: IP31 GRADE ALUMINUM METAL CASE, DROP-WATERPROOF/DUSTPROOF
 - LED INDICATORS: POWER, ALARM, 10MBPS LINK/ ACTIVITY, 100 MBPS LINK/ ACTIVITY
 - TECHNOLOGY: STANDARDS: IEEE 802.3 10 BASE-T, IEEE 802.3u 100 BASE-TX
 - ETHERNET CONNECTORS: RJ45
 - NUMBER OF PORTS: 5
- TELEMETRY CELLULAR ANTENNA
THIS ITEM INCLUDES TELEMETRY CELLULAR COMMUNICATION WITH CELLULAR WIRELESS ROUTER, AND 1 ANTENNA FOR EACH INTERSECTION AS SHOWN IN THE PLANS. CELLULAR ANTENNA AND ITS CABLE TO BE BID AS PART OF ITEM 660060-003, PER EACH

CONTROLLER CABINET DETAIL



-FOR CLARITY, NOT ALL CABINET COMPONENTS ARE SHOWN-
 -CELLULAR WIRELESS ROUTER MAY REST ON TOP OF ETHERNET SWITCH OR THE TWO DEVICES CAN SIT SIDE-BY-SIDE IF SPACE PERMITS

INTERCONNECT BID ITEM NOTES:

ITEM 660060-001 (*) PER INTERSECTION, MISCELLANEOUS RADIO INSTALLATION ALL OTHER MATERIAL AND LABOR REQUIRED FOR THE PROPER INSTALLATION OF THE ETHERNET WIRELESS COMMUNICATION SYSTEM TO BE INCLUDED IN THIS BID ITEM. THIS INCLUDES CAT6 CABLE, LIGHTNING PROTECTION, POWER INSTALLATIONS, ETC.

TELEMETRY CELLULAR INSTALLATION:

- INSTALL TELEMETRY CELLULAR COMMUNICATIONS WITH CELLULAR WIRELESS ROUTER AT LOCATION AS INDICATED.
- INSTALL EXTERNAL ANTENNA ON THE TOP OF CABINET (1 TOTAL).
- INSTALL A MAXIMUM OF 1 meter (3.3 L.F.) LOW LOSS COAXIAL CABLE BETWEEN THE CELLULAR WIRELESS ROUTER AND EXTERNAL ANTENNA, AS INDICATED.

CAT6 CABLE NOTES:

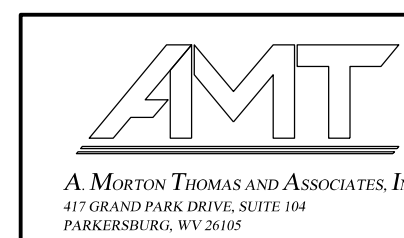
- INSTALL ONE (1) OUTDOOR CAT6 CABLE FROM ETHERNET SWITCH TO THE SIGNAL CONTROLLER AT THIS INTERSECTION. EACH CABLE SHALL BE 6 LF IN LENGTH. NEATLY SECURED EXCESS CABLE TO AVOID KINKS.
- INSTALL ONE (1) OUTDOOR CAT6 CABLE FROM ETHERNET SWITCH TO THE CELLULAR WIRELESS ROUTER AT THIS INTERSECTION. EACH CABLE SHALL BE 6 LF IN LENGTH. NEATLY SECURED EXCESS CABLE TO AVOID KINKS.
- NO CAT6 SPLICES SHALL BE PERMITTED ALONG CABLE LENGTH.
- CRIMP CAT6 CONNECTORS WITH AMP TOOL USING THE EXACT RJ-45 MODEL FOR OUTDOOR CAT6 CABLE BEING USED.
- TEST ALL CAT6 CABLING WITH CONNECTORS TO 10/100/1000 SPECIFICATIONS. CONTRACTOR SHALL PROVIDE A SUMMARY REPORT OF TESTING TO WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, TRAFFIC ENGINEERING DIVISION.

COMMUNICATION PERFORMANCE:

THE CONTRACTOR SHALL TEST THE COMPLETED INSTALLATION TO VERIFY THE RECEIVED SIGNAL STRENGTH INDICATION (RSSI). THE RSSI SHALL BE A VALUE BETWEEN ZERO (0) AND -60. IF THE VALUE IS NOT WITHIN THIS RANGE, THEN THE CONTRACTOR SHALL MAKE ANTENNA ADJUSTMENTS AND/OR REPLACEMENT UNTIL THE RSSI IS WITHIN THIS RANGE.

SUBMITTED 6/29/2020

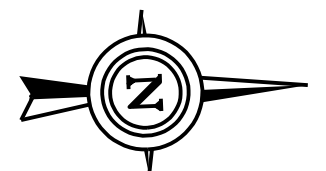
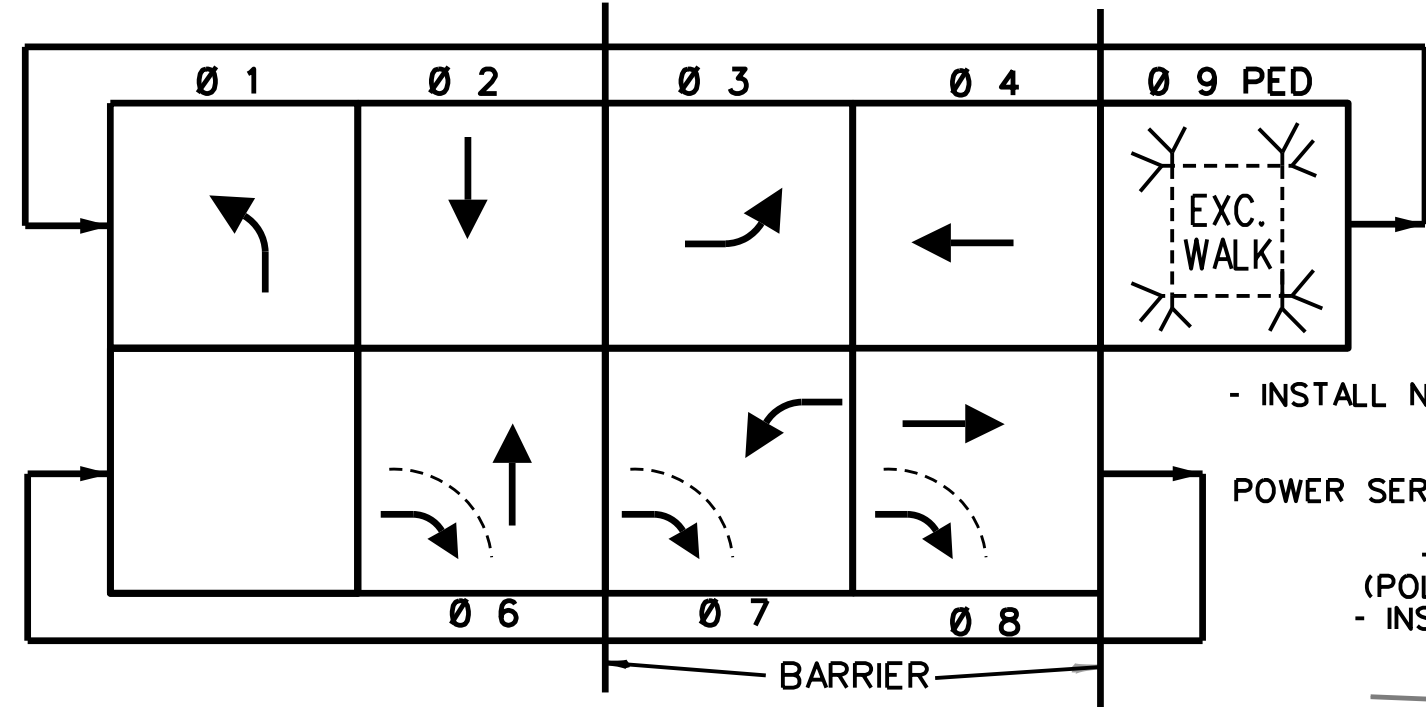
SG-7



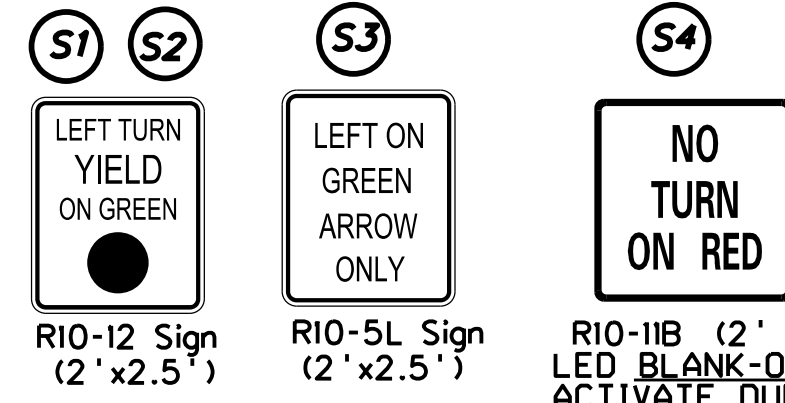
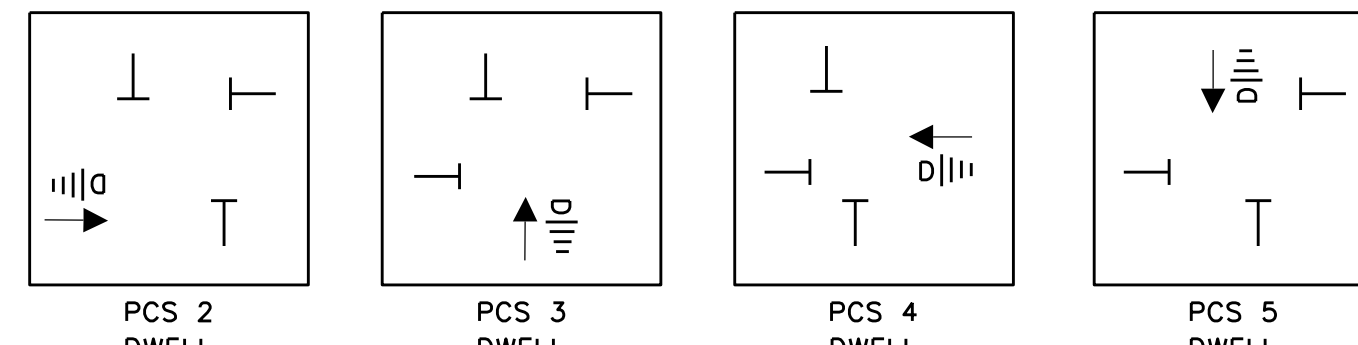
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 SIGNAL CELLULAR COMMUNICATION DETAIL SHEET
 VAN VOORHIS RD. AT CHESTNUT RIDGE RD.
 MORGANTOWN, MONONGALIA CO.

DUAL RING PHASING



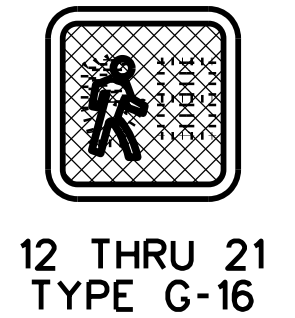
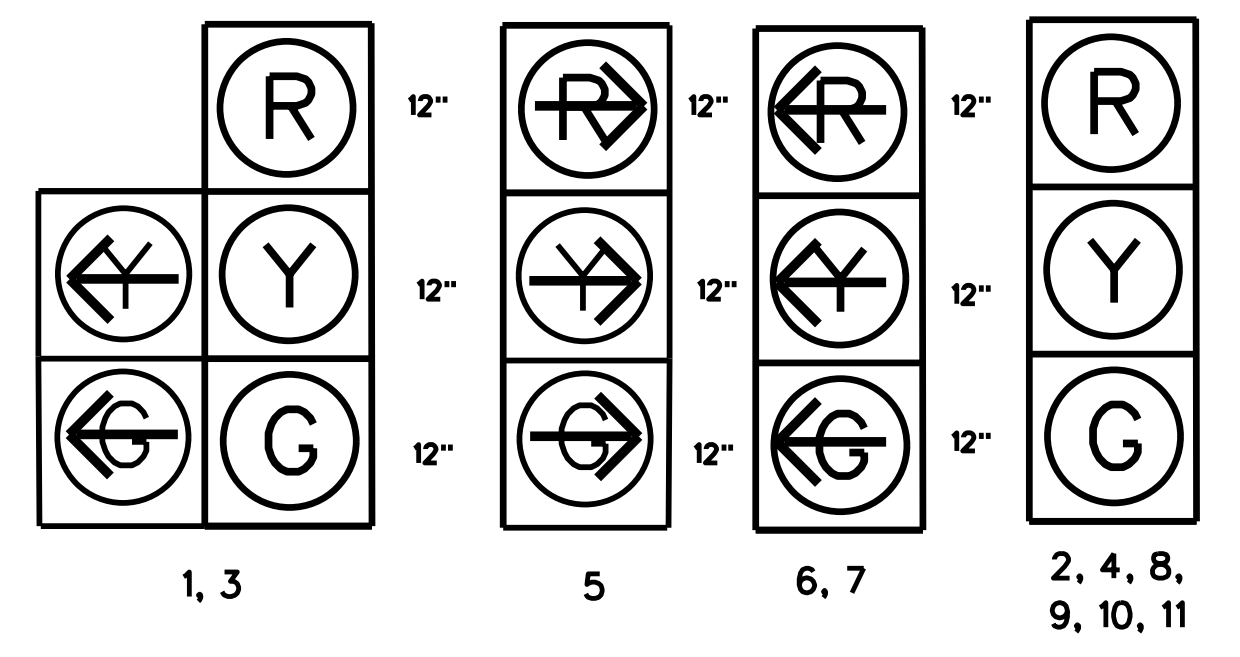
I/S #1 PCS
SEE PCS NOTES SHEET *SG-6



NOTE: CONTRACTOR SHALL LOCATE EXISTING CULVERTS, UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATING.

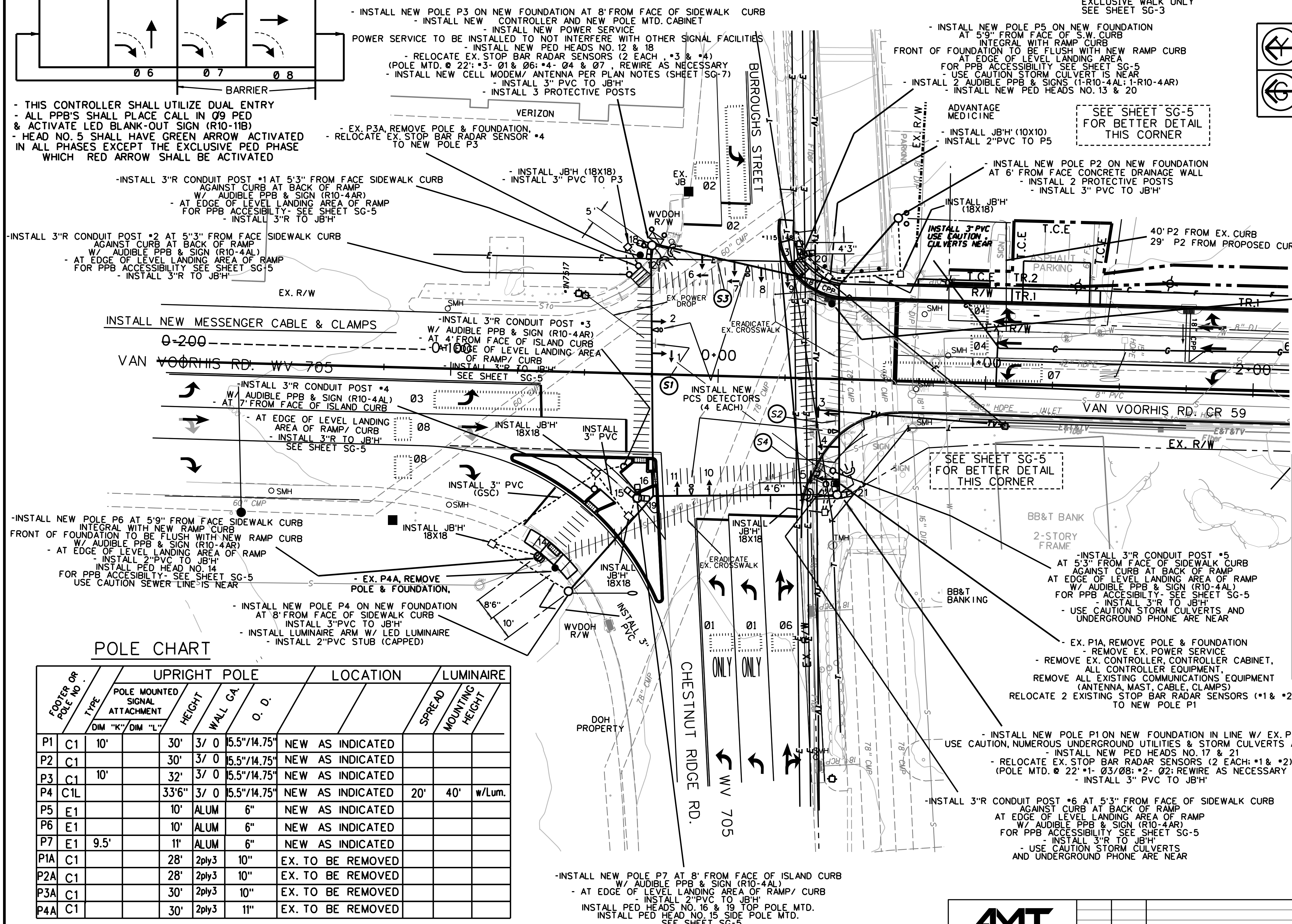
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	201	301

NEW SIGNAL HEADS

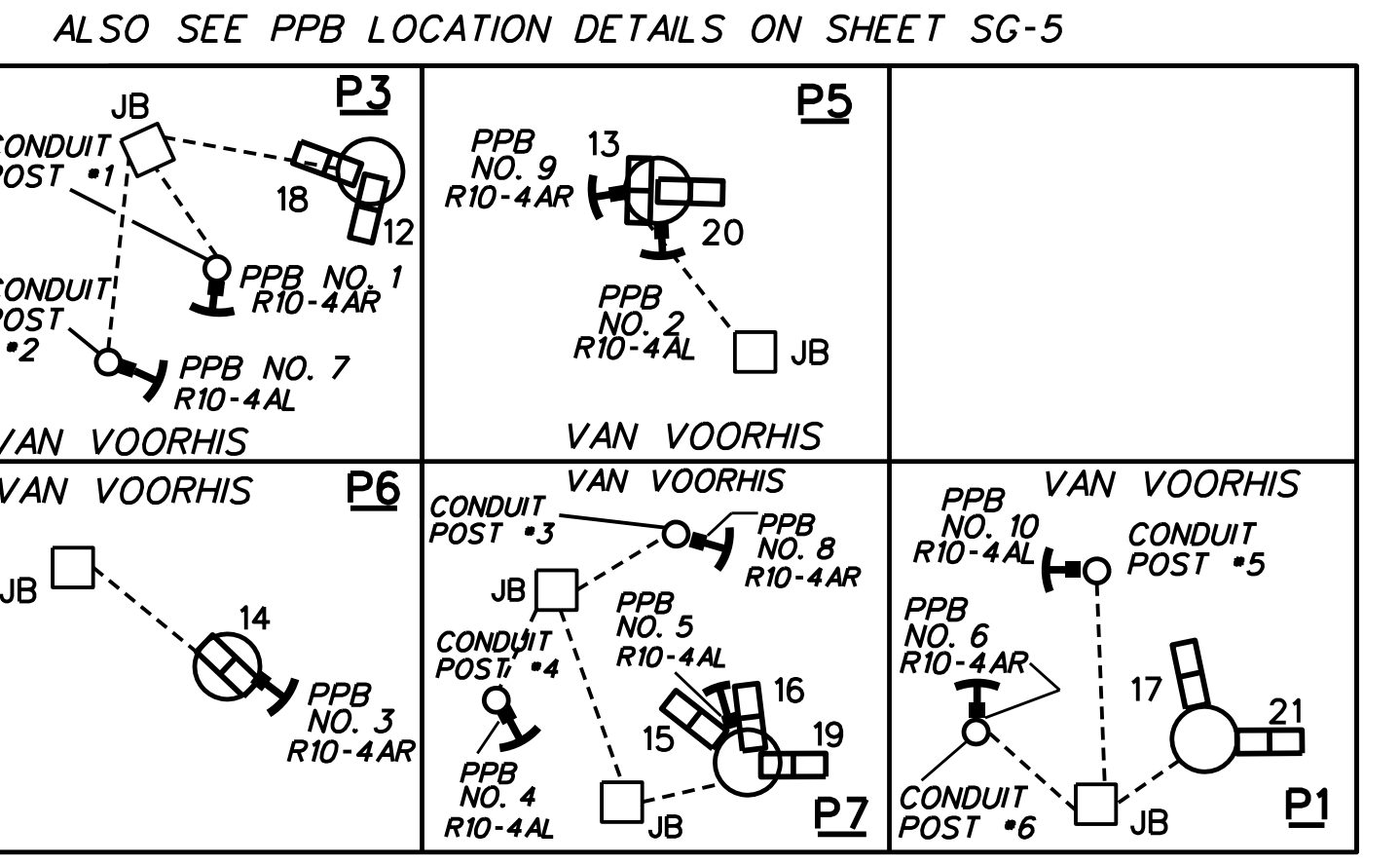


FLASH SEQUENCE

HEAD NO.	FLASH
1, 2 3, 4, 5	Y
6, 7, 8, 9 10, 11	R
12-21	DARK



AUDIBLE PUSH BUTTON & SIGN LOCATIONS

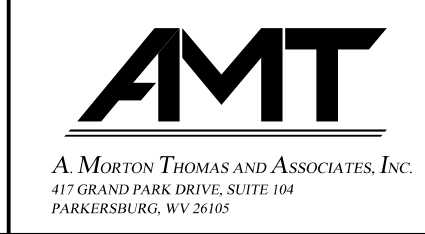


POLE CHART

FOOTER OR POLE NO.	TYPE	UPRIGHT POLE		LOCATION	LUMINAIRE		
		POLE MOUNTED SIGNAL ATTACHMENT	HEIGHT			WALL GA.	O. D.
		DIM "K"/DIM "L"					
P1	C1	10'	30'	3/ 0	15.5"/14.75"	NEW AS INDICATED	
P2	C1		30'	3/ 0	15.5"/14.75"	NEW AS INDICATED	
P3	C1	10'	32'	3/ 0	15.5"/14.75"	NEW AS INDICATED	
P4	C1L		33'6"	3/ 0	15.5"/14.75"	NEW AS INDICATED	20' 40' w/Lum.
P5	E1		10'	ALUM	6"	NEW AS INDICATED	
P6	E1		10'	ALUM	6"	NEW AS INDICATED	
P7	E1	9.5'	11'	ALUM	6"	NEW AS INDICATED	
P1A	C1		28'	2ply3	10"	EX. TO BE REMOVED	
P2A	C1		28'	2ply3	10"	EX. TO BE REMOVED	
P3A	C1		30'	2ply3	10"	EX. TO BE REMOVED	
P4A	C1		30'	2ply3	11"	EX. TO BE REMOVED	

- POLES (3-C1, 1-C1L; 3-E1), ANCHOR BOLTS (28) & LUMINAIRE ARM (1) TO BE SUPPLIED BY THE CONTRACTOR
- THE 9.5' / 10' DIMENSION 'K' IS TO THE BOTTOM OF PED HEAD

SCALE : 0 20 40 FT.



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

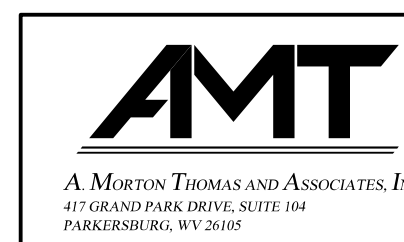
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SIGNAL PLAN
VAN VOORHIS RD. AT CHESTNUT RIDGE RD.
MORGANTOWN, MONONGALIA CO.

I/S # 1
SG-8

SUBMITTED 6/29/2020

OWNERSHIP INDEX																
PARCEL NO.	PLAN SHEET NO.	TITLEHOLDER	RECORDED		AREA - Sq. Ft. (Unless noted otherwise)							R/W DEED RECORD				
			DEED BOOK	PAGE NO.	C/A	NON-C/A	EASEMENT		REMAINING			TOTAL TAKEN	PARCEL TOTAL (per Deed)	REMARKS	DEED BOOK	PAGE NO.
							TYPE	AREA	LEFT	RIGHT	TOTAL					
1	7	BUSH PROPERTIES LLC	1416	144	Tract 1	855			0.42 Ac		0.42 Ac	855	0.44 Ac	PLAT DB 1316 PG 451 WVDOH DB 829 PG 569		
					Tract 2		TCE	975								
2	7	OLD PALACE LTD	961	349	Tract 1	3194			1.94 Ac		1.94 Ac	3194	2.01 Ac (C)			
					Tract 2		TCE	1167								
					Tract 3		TCE	84								
3	7,8	HERITAGE PROFESSIONAL BUILDING	915	290	Tract 1	2244			41316 0.95 Ac		41316 0.95 Ac	2244	1.00 Ac (C)	CONDOMINIUM RW PLAT DB959 PG 589 & OWNER DB919 PG 290, PB 1 PG 161-A		
					Tract 2		TCE	2603								
4	8	PATRICIA ANN GUTTA (QTIP TRUSUT NUMBER TWO)	W128	96	Tract 1	433			1.17 Ac		1.17 Ac	433	1.18 Ac (C)			
					Tract 2		TCE	566								
5	8	GREGORY S & PAMELA J. GUTTA	1449	186		251			1.1596 Ac	1.1596 Ac	251	1.1654 Ac (C)				
6	8,9	HERITAGE RENTAL COMPANY LLC	1335	449	Tract 1	1033			2.00 Ac	2.00 Ac	1033	2.02 Ac (C)				
					Tract 2		TCE	1600								
7	9	R & R HOLDINGS 3 LLC	1295 1478	17 657	Tract 1	2890			2.99 Ac	2.99 Ac	2890	3.06 Ac (C)				
					Tract 2		TCE	627								
8	10	RAYMOND O. AND EMMA JEAN SUMMERS	999 1175	716 699	Tract 1	2500			1.22 Ac	1.22 Ac	2500	1.277 Ac (C)				
					Tract 2		TCE	1411								
9	10	GARY MATTHEW HERSHMAN	WB 160	684		6017			1.44 Ac	1.44 Ac	6017	1.576 Ac (C)	DB 817, PAGE 634 DB 1054, PAGE 583 DB 734, PAGE 464 DB 657, PAGE 50			
10	10	TIMOTHY WHITE	1184	355	Tract 1	356			40111		356	40467 (C)				
					Tract 2		TCE	1161								
11	10	HERSHMAN TRUST	1238	209	Tract 1	16262			0.21 Ac	0.21 Ac	16262	0.58 Ac				
					Tract 2		TSRE	486								
					Tract 3		TSRE	2096								
12-1	10	KENWOOD PLACE	No Deed				TCE	472					UNOPENED PRIVATE DRIVE/STREET			
12-2	10,11	WEDGEWOOD	No Deed				TCE	6766					PRIVATE DRIVE/STREET			
13-1	10	T AND H DEVELOPMENT CORPORATION, INC.	1211	313	Tract 1	2484			0.090 Ac	0.090 Ac	2484	0.147 Ac				
					Tract 2		TCE	964								
13-2	10,11	T AND H DEVELOPMENT CORPORATION, INC.	757	318	Tract 1	3531			2.63 Ac	2.63 Ac	3531	2.713 Ac (C)				
					Tract 2		TCE	6966								
14	11	BARRING VISTA VILLAGE	1630	464			TCE	1211			0	1.3828 Ac				
15	11,12	GPH MORGANTOWN LLC	1314	268	Tract 1	8595			5.64 Ac	5.64 Ac	8595	5.84 Ac (C)	GOLDEN LIVING PRIVATE DRIVEWAY			
					Tract 2		TCE	5279								
16	11	MICHELLE ANN HERSHMAN	1251	475	Tract 1	2913			0.662 Ac	0.662 Ac	2913	0.729 Ac				
17	11	HIGHLAND OAK DEVELOPMENT CORPORATION	1043	516	Tract 1	1472			1.49 Ac	1.49 Ac	1472	1.52 Ac (C)	PRIVATE DRIVE/STREET(Highland Oak Development Corporation)			
18	11	WOODLANDS INDUSTRIES CORPORATION	1059	284		3128			3406	3406	3128	6534 (C)				
19	11,12,13	WEST VIRGINIA UNIVERSITY BOARD OF GOVERNORS	1233	165		18853			15.28 Ac	15.28 Ac	18853	15.71 Ac (C)				

SUBMITTED 6/29/2020

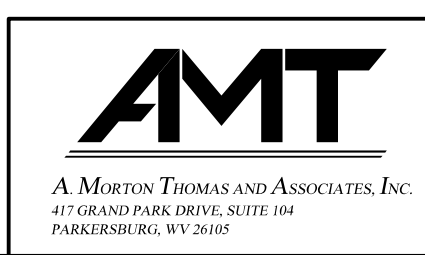


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
OWNERSHIP INDEX

OWNERSHIP INDEX															
PARCEL NO.	PLAN SHEET NO.	TITLEHOLDER	RECORDED		AREA - Sq. Ft. (Unless noted otherwise)								REMARKS	R/W DEED RECORD	
			DEED BOOK	PAGE NO.	C/A	NON-C/A	EASEMENT		REMAINING		TOTAL TAKEN	PARCEL TOTAL (per Deed)		DEED	PAGE
20	12	ASHLEY T DOUGLAS	1516	307		475			3828		3828	475	4303		
21	12	DANIEL W. WILSON & CHERYL B. WILSON	1348	89		39			2764		2764	39	2803		
22	12	C & S CONSTRUCTION LLC	1168	285		813			6157		6157	813	6970 (C)		
23	12	ABDUL MANNAN	1673	739	Tract 1	583			6962		6962	583	0.1732 Ac	RECENTLY SOLD. ATTEMPTING TO CONTACT NEW OWNER FOR QUESTIONNAIRE.	
					Tract 2		TCE	862							
24	12	C & S CONSTRUCTION LLC	1168	285	Tract 1	329						329		30 FT WIDE PRIVATE DRIVE/STREET WINWOOD VILLAGE REVISED PHASE I AND REVISED II MAP CABINET 5 ENVELOPE 48 A	
					Tract 2		TCE	617							
25	12,13	DAWSON PROPERTIES LLC	1333	150	Tract 1	1814			1.05 Ac		1.05 Ac	1472	1.08 Ac (C)		
					Tract 2		TCE	319							
26	13	GHARIB WISSAM & MICHELE MAOUAD	1296	349	Tract 1	1947			1.17 Ac		1.17 Ac	1947	1.216 Ac		
					Tract 2		TCE	1198							
27	13,14	CEV MORGANTOWN LP	1471	354	Tract 1	3421			11.09 Ac		11.09 Ac	3421	11.17 Ac (C)		
					Tract 2	2043									
					Tract 3		TCE	1175							
					Tract 4		TCE	1008							
					Tract 5		TCE	4733							
28	13	CAROLYN CINCALA	978	454	Tract 1	1686			42643 0.98 Ac		42643 0.98 Ac	1686	1.01 Ac (C)		
					Tract 2		TCE	318							
29-1	13,14	CROESUS MORGANTOWN HOLDINGS, LLC	1690	399	Tract 1	7395			5.34 Ac		5.34 Ac	6408	5.49 Ac (C)		
					Tract 2		TCE	549							
29-2	14	CROESUS MORGANTOWN HOLDINGS, LLC	1690	399	Tract 1	3152			0.57 Ac		0.57 Ac	3152	0.64 Ac		
					Tract 2		TCE	4933							
30	14	STATE OF WEST VIRGINIA DEPARTMENT OF COMMERCE DIVISION OF NATURAL RESOURCES			Tract 1		PERMANENT	254				254		STREAM BED RIGHTS	
					Tract 2		PERMANENT	152			152				
					Tract 3		TCE	730							
31	14,15	KELLY A. MARTIN	1611	136	Tract 1	247			0.26 Ac		0.26 Ac	247	0.27 Ac (C)		
					Tract 2		TCE	706							

SUBMITTED 6/29/2020

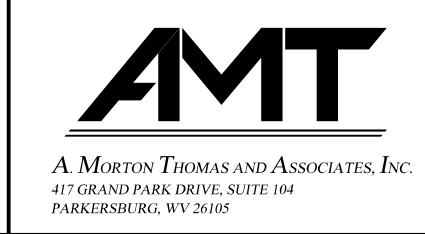


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0237D)	2020	MONONGALIA	204	301

UTILITIES			
STATION	SHEET NO.	DESCRIPTION	DISPOSITION
WATER - MORGANTOWN UTILITY BOARD			
0+84 - 5+22, Lt.	7, 8	existing 8" DI, starts 16' Lt., ends 25' Lt.	To be relocated to accommodate road widening
1+38, Lt.	7	existing 6" F.S.	To be relocated to accommodate road widening
15+80 - 18+71, Lt.	9, 10	existing 12" DI, starts 20' Lt., ends 67' Lt.	To be relocated to allow reconstruction of mainline and side roads
16+59, Lt. and Rt.	10	existing water service line	To be relocated to allow road widening and drainage installation
17+50 - 19+75, Lt. and Rt.	10	existing 8" PVC, starts 2' Rt., ends 33' Lt.	To be relocated to allow road relocation
18+35 - 18+38, Lt. and Rt.	10	existing line and hydrant, starts 4' Lt., ends 14' Rt.	To be relocated to allow road relocation
21+00 - 31+31, Lt. and Rt.	10, 11, 12	existing 8" AC, starts 43' Lt. and ends 8' Rt.	To be relocated to allow paved shoulder and drainage installation
21+45 - 21+66, Lt.	10, 11	existing 6" AC, starts 34' Lt., ends 57' Lt.	To be relocated to allow reconstruction of side road approach
26+41, Lt. and Rt.	11	existing 8" DI, starting 17' Lt., ending 6' Rt.	To be relocated to allow paved shoulder and drainage installation
31+31, Lt. and Rt.	12	existing 6" PVC, starting 8' Rt., ending 23' Lt.	To be relocated to allow paved shoulder and drainage installation
34+75 - 36+00, Rt.	13	existing 8" AC, 9' Rt.	To be relocated to allow cross pipe installation and sewer line relocation
36+75 - 37+25, Rt.	13	existing 8" AC, 10' Rt.	To be relocated to allow cross pipe installation
38+75 - 46+00, Rt.	13, 14, 15	existing 8" AC, starts 9' Rt., ends 9' Rt.	To be relocated to allow bridge and paved shoulder construction
SEWER - MORGANTOWN UTILITY BOARD			
5+75 - 6+19, Lt. and Rt.	8	existing dual 8" clay sanitary sewer lines	To be lowered and encased as necessary
5+63 - 5+94, Lt. and Rt.	8	existing 8" clay sanitary sewer line	To be lowered and encased as necessary
11+43 - 11+71, Lt. and Rt.	9	existing 8" TRU sanitary sewer line	To be lowered and encased as necessary
16+11 - 16+22, Lt. and Rt.	10	existing 8" clay sanitary line and manholes	Adjust manholes
35+12, Lt. - 35+30, Rt.	13	existing 8" pvc sanitary sewer line and manholes	To be lowered and encased as necessary
41+28 - 41+47, Lt. and Rt.	14	existing 18" PVC sewer line	To be lowered and encased as necessary
41+28 - 41+65, Rt.	14	existing 6" pvc, starting 15' Rt., ending 64' Rt.	To be relocated and encased as necessary
41+00 - 41+28, Rt.	14	existing 8" pvc, starting 33' Rt., ending 15' Rt.	To be lowered and encased as necessary
41+28 - 41+39, Rt.	14	existing 21" pvc, starting 15' Rt., ending 93' Rt.	To be lowered and encased as necessary
ELECTRIC - FIRST ENERGY			
2+86, 36' Lt.	7	existing power pole	To be relocated to accommodate road widening
16+54, 22' Rt.	10	existing power pole	To be relocated to accommodate road widening
18+17, 19' Rt.	10	existing power pole	To be relocated to accommodate curve improvement
19+50, 16' Lt.	10	existing power pole	To be relocated to accommodate curve improvement
21+28, 12' Lt.	10	existing power pole	To be relocated to accommodate curve improvement
24+97, 17' Rt.	11	existing power pole	To be relocated to allow placement of fill
30+35, 24' Rt.	12	existing power pole	To be relocated to allow placement of fill
32+69, 20' Rt.	12	existing power pole	To be relocated to allow placement of fill
39+78, 22' Rt.	14	existing power pole	To be relocated to allow installation of bridge detour
41+41, 15' Rt.	14	existing power pole	To be relocated to allow bridge construction
44+04, 13' Rt.	14	existing power pole	To be relocated to allow installation of bridge detour
TELEPHONE - FRONTIER			
21+32, 18' Lt.	10	telephone pole	To be relocated to accommodate curve improvement
21+60, 73' Lt.	11	telephone pole	To be relocated to accommodate curve improvement
22+60, 16' Rt.	11	telephone pole	To be relocated to accommodate curve improvement
24+04, 25' Lt.	11	telephone pole	To be relocated to accommodate paved shoulder construction
25+60, 15' Lt.	11	telephone pole	To be relocated to accommodate paved shoulder construction
27+40, 15' Lt.	12	telephone pole and telephone pedestal	To be relocated to accommodate paved shoulder construction
29+00, 15' Lt.	12	telephone pole	To be relocated to accommodate paved shoulder construction
31+18, 15' Lt.	12	telephone pole	To be relocated to accommodate paved shoulder construction
31+90, 15' Lt.	12	telephone pole	To be relocated to accommodate paved shoulder construction
33+00, 18' Lt.	12	telephone pole	To be relocated to accommodate paved shoulder construction
34+75, 15' Lt.	13	telephone pole	To be relocated to accommodate paved shoulder construction
38+46, 27' Lt.	13	telephone pole	To be relocated to accommodate paved shoulder construction
39+79, 19' Rt.	14	telephone pole	To be relocated to allow installation of bridge detour
42+11, 28' Lt.	14	telephone pedestal	To be relocated to allow bridge construction
GAS - DOMINION ENERGY			
0+81 - 1+04, Lt.	7	existing gas line, starts 42' Lt., ends 14' Lt.	To be relocated to allow roadway widening
5+55 - 5+58, Lt.	8	existing gas line, starts 15' Lt., ends 36' Lt.	To be relocated to allow roadway widening
4+50 - 19+10, Lt.	7, 8, 9, 10	existing gas line, starts 16' Lt., ends 31' Lt.	To be relocated to allow paved shoulder and drainage installation
5+83 - 19+10, Lt.	8, 9, 10	existing gas line, starts 34' Lt., ends 35' Lt.	To be relocated to allow paved shoulder installation
16+01, Lt.	10	existing gas line, starts 14' Lt., ends 68' Lt.	To be relocated to allow paved shoulder installation
20+61 - 21+68, Lt. and Rt.	10, 11	existing gas line, starts 63' Lt., ends 132' Rt.	To be relocated to allow road relocation
20+40 - 21+72, Lt.	10, 11	existing twin lines, starts 66' Lt., ends 80' Lt.	To be relocated to allow road relocation and approach reconstruction
21+08 - 21+19, Lt.	11	existing gas line, starts 88' Lt., ends 69' Rt.	To be relocated to allow approach reconstruction
27+25 - 28+25, Lt.	12	existing gas line, 23' Lt.	To be relocated to allow wall construction
37+58 - 37+76, Lt. and Rt.	13	existing gas line, starts 26' Lt., ends 24' Rt.	To be relocated to allow drainage installation
38+25 - 39+50, Lt.	13, 14	existing gas line, starts 30' Lt., ends 29' Lt.	To be relocated to allow wall construction
41+33 - 42+50, Lt.	14	existing gas line, starts 82' Lt., ends 30' Lt.	To be relocated to allow bridge construction and drainage installation

SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
UTILITY RELOCATION INDEX

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	205	301

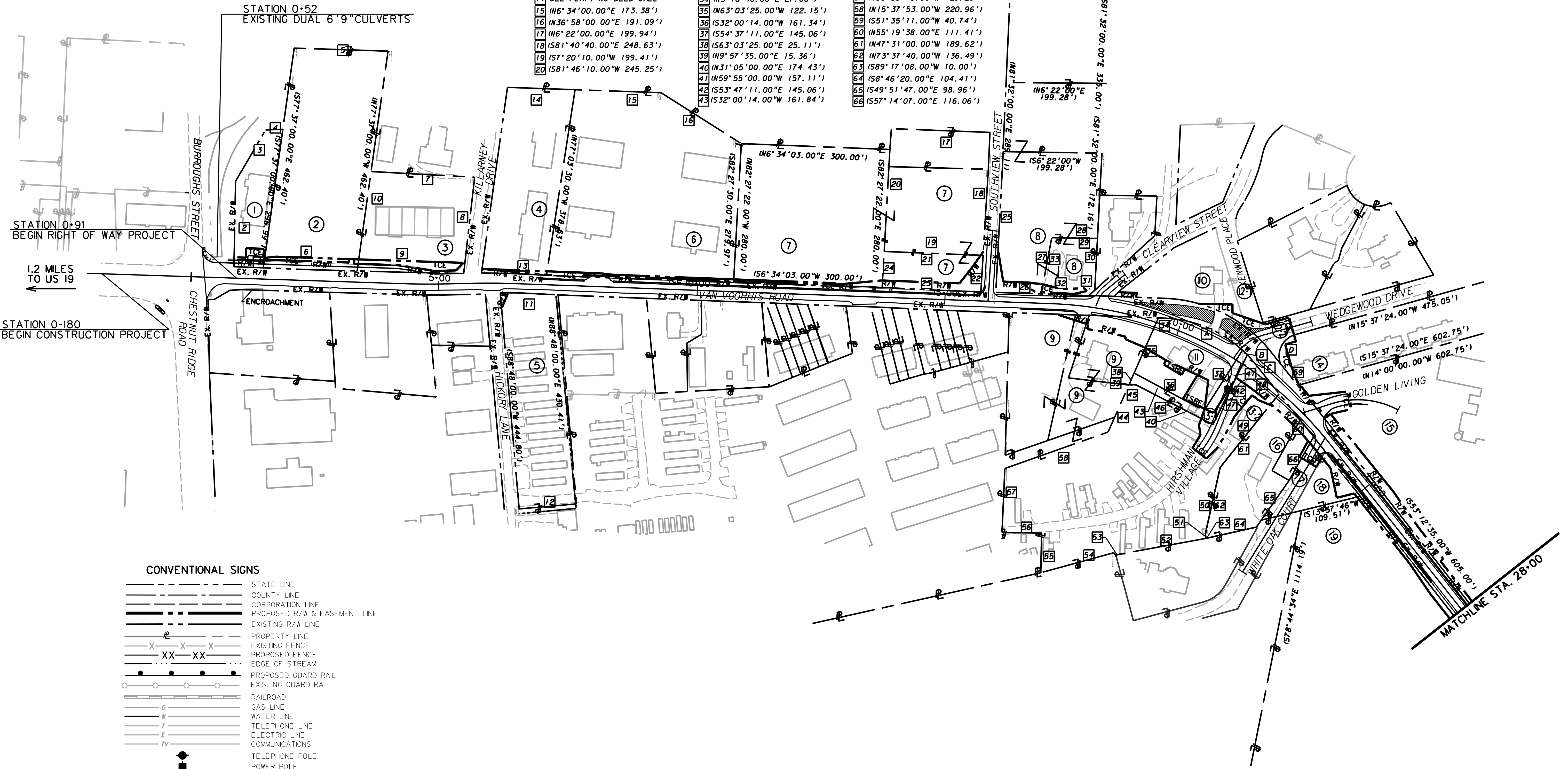
LINE TABLE

1	(S6°13'00.00"W 57.56')	21	(N6°28'20.00"E 199.99')	44	(N63°03'25.00"W 105.10')
2	(N84°32'15.00"W 187.45')	22	(S81°40'00.00"E 74.43')	45	(N9°57'35.00"E 15.36')
3	(N55°17'55.00"W 119.99')	23	(S6°22'22.00"W 200.00')	46	(N31°05'00.00"E 174.43')
4	(N2°19'39.00"E 34.78')	24	(N81°40'00.00"W 40.10')	47	(N59°55'00.00"W 157.11')
5	(S6°13'00.00"W 189.40')	25	(S81°32'00.00"W 289.11')	48	(N55°17'10.00"E 70.00')
6	(N6°13'00.00"E 189.40')	26	(S7°25'30.00"W 91.00')	49	(S47°31'00.00"E 189.62')
7	(N6°39'03.00"E 207.30')	27	(S73°56'15.00"E 120.25')	50	(S73°37'40.00"E 136.49')
8	(S79°59'09.00"E 209.55')	28	(S6°22'00.00"W 92.32')	51	(N89°17'08.00"E 10.00')
9	(S6°39'03.00"W 207.90')	29	(N6°22'00.00"E 92.32')	52	(S6°33'42.00"E 186.43')
10	(N79°59'09.00"W 209.55')	30	(S81°32'00.00"E 104.73')	53	(S79°12'28.00"W 5.11')
11	(N5°52'20.00"E 116.89')	31	(S36°45'20.00"E 22.76')	54	(S11°30'26.00"E 153.91')
12	(S1°12'00.00"E 116.00')	32	(S7°25'30.00"W 92.15')	55	(N84°57'56.00"W 80.00')
13	SEE PLAT. NO DEED CALL	33	(N73°56'15.00"W 120.25')	56	(S4°40'49.00"W 80.00')
14	SEE PLAT. NO DEED CALL	34	(N5°18'40.00"E 27.00')	57	(N83°38'16.00"W 129.23')
15	(S6°34'00.00"E 173.38')	35	(N6°3'03'25.00"W 122.15')	58	(N15°37'53.00"W 220.96')
16	(N36°58'00.00"E 191.09')	36	(S32°00'14.00"W 161.34')	59	(S51°35'11.00"W 40.74')
17	(N6°22'00.00"E 199.94')	37	(S54°37'11.00"E 145.06')	60	(N55°19'38.00"E 111.41')
18	(S81°40'40.00"E 248.63')	38	(S63°03'25.00"E 25.11')	61	(N47°31'00.00"W 189.62')
19	(S7°20'10.00"W 199.41')	39	(N9°57'35.00"E 15.36')	62	(N73°37'40.00"W 136.49')
20	(S81°46'10.00"W 245.25')	40	(N31°05'00.00"E 174.43')	63	(S89°17'08.00"W 10.00')
		41	(N59°55'00.00"W 157.11')	64	(S8°46'20.00"E 104.41')
		42	(S53°47'11.00"E 145.06')	65	(S49°51'47.00"E 98.96')
		43	(S32°00'14.00"W 161.84')	66	(S57°14'07.00"E 116.06')

CURVE TABLE

A	CHORD = N27°58'55.65"E 159.51' A=162.64' R=238.45'
B	CHORD = N49°20'28.97"E 13.74' A=13.74' R=238.45'
C	CHORD = N54°43'13.01"E 31.59' A=31.61' R=238.45'
D	CHORD = N72°00'1.00"E 74.96' A=88.59' R=45'

EXISTING RIGHT OF WAY WAS DERIVED FROM FEDERAL PROJECT ACST-0059(005)D, STATUTORY RIGHT OF WAYS, AND RECORDS.



CONVENTIONAL SIGNS

	STATE LINE
	COUNTY LINE
	CORPORATION LINE
	PROPOSED R/W & EASEMENT LINE
	EXISTING R/W LINE
	PROPERTY LINE
	EXISTING FENCE
	PROPOSED FENCE
	EDGE OF STREAM
	PROPOSED GUARD RAIL
	EXISTING GUARD RAIL
	RAILROAD
	GAS LINE
	WATER LINE
	TELEPHONE LINE
	ELECTRIC LINE
	COMMUNICATIONS
	TELEPHONE POLE
	POWER POLE
	COMBINED POWER AND TELEPHONE POLE
	TREE
	SHRUB
	RIGHT OF WAY MARKER



SCALE : 0 100 ft.

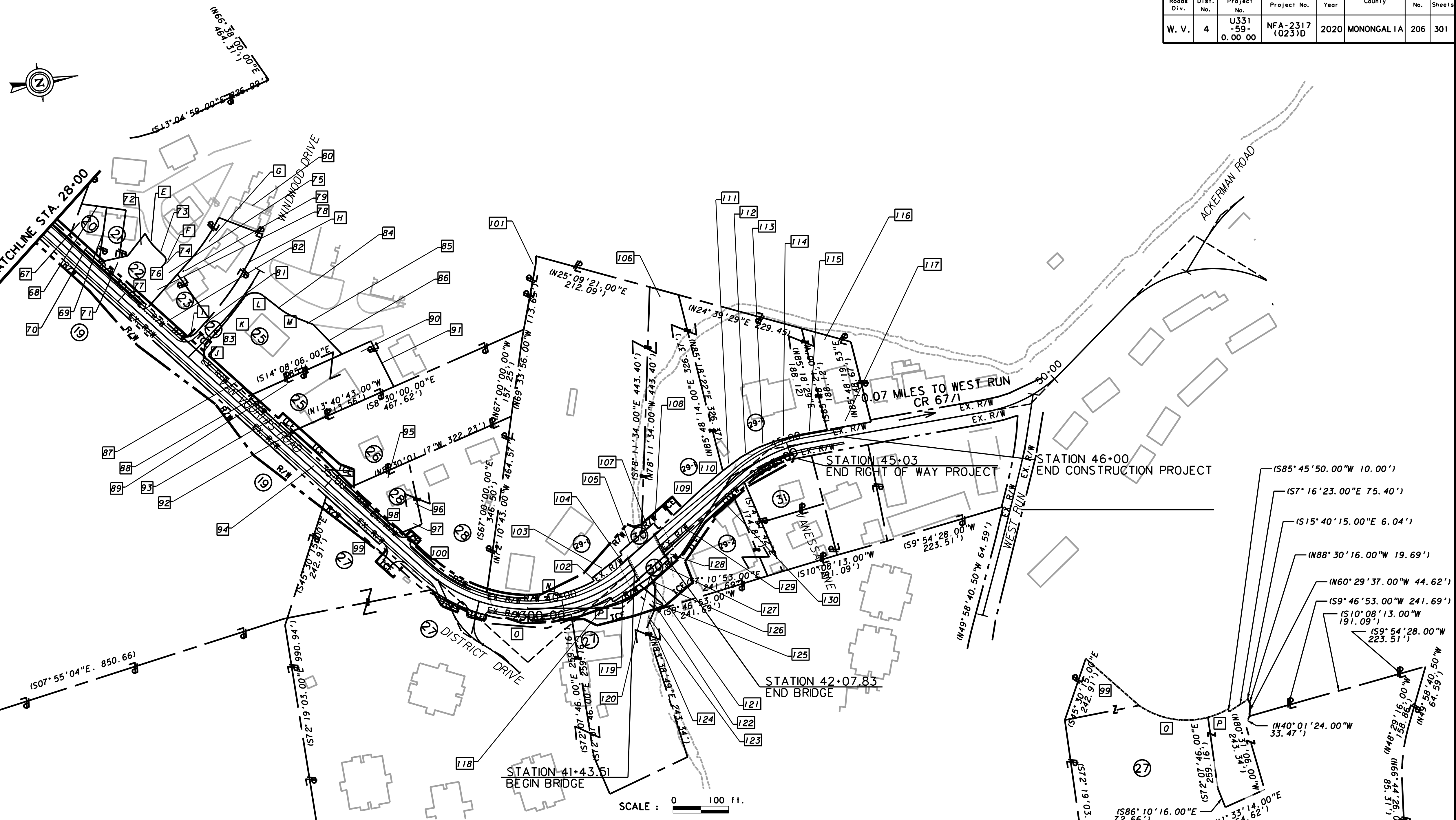
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPERTY MAP
STA. 0+00 TO 28+00

SUBMITTED 6/29/2020

CONVENTIONAL SIGNS

- STATE LINE
- COUNTY LINE
- CORPORATION LINE
- PROPOSED R/W & EASEMENT LINE
- EXISTING R/W LINE
- PROPERTY LINE
- EXISTING FENCE
- PROPOSED FENCE
- EDGE OF STREAM
- PROPOSED GUARD RAIL
- EXISTING GUARD RAIL
- RAILROAD
- GAS LINE
- WATER LINE
- TELEPHONE LINE
- ELECTRIC LINE
- COMMUNICATIONS
- TELEPHONE POLE
- POWER POLE
- COMBINED POWER AND TELEPHONE POLE
- TREE
- SHRUB
- RIGHT OF WAY MARKER

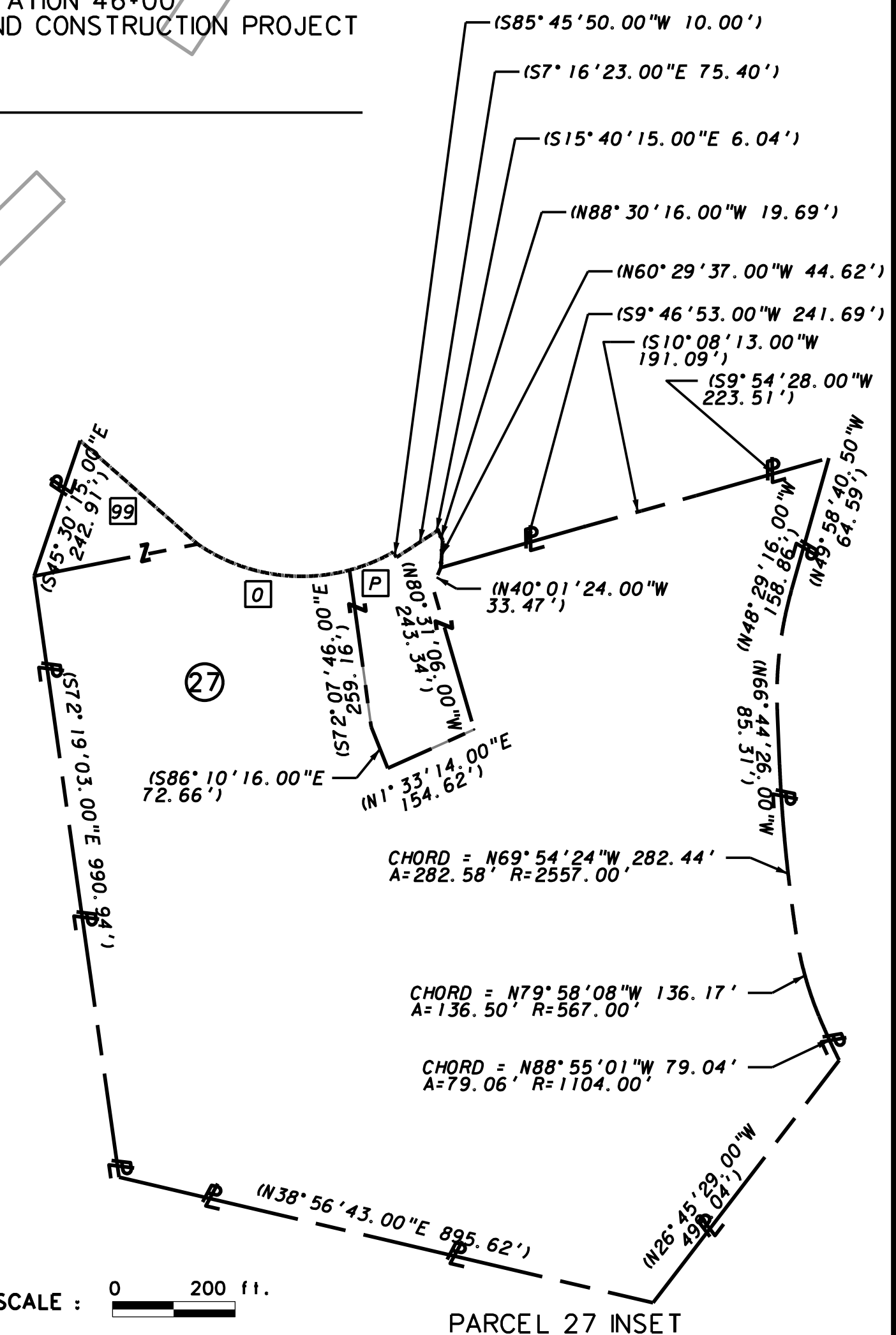
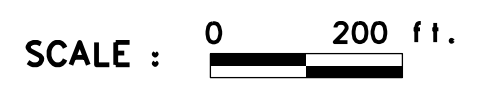


LINE TABLE

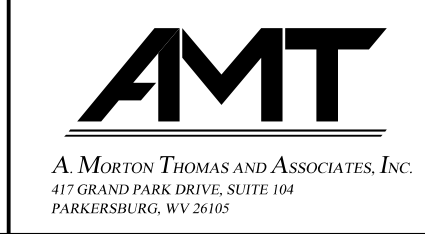
67	N59°59'08.00"W 61.41'	87	N51°44'24.00"E 94.24'	103	S27°56'55.00"E 68.00'	118	S85°45'50.00"W 10.00'
68	N17°46'03.00"E 45.82'	88	S14°08'06.00"E 21.12'	104	N62°03'05.00"E 6.00'	119	S7°16'23.00"E 75.40'
69	S72°10'39.00"E 99.60'	89	S14°08'06.00"E 184.99'	105	S30°51'35.00"E 51.36'	120	S15°40'15.00"E 6.04'
70	S51°44'25.08"W 70.84'	90	S14°08'06.00"E 57.01'	106	N25°09'21.00"E 53.59'	121	S74°21'37.00"W 19.69'
71	N2°58'10.00"W 52.49'	91	S73°23'28.00"W 91.74'	107	S30°51'11.21"E 28.65'	122	N60°29'37"W 44.62'
72	N41°45'43.00"W 50.85'	92	N13°40'43.00"W 11.86'	108	S59°08'25.00"W 14.00'	123	S55°51'29"E 33.47'
73	N53°43'55.00"E 19.89'	93	N50°58'58.42"E 99.05'	109	S32°58'37.00"E 110.59'	124	S55°51'29"E 33.47'
74	S38°15'36.00"E 8.35'	94	N56°15'10.00"E 148.24'	110	S30°40'20.00"E 44.84'	125	N77°27'23.00"W 44.62'
75	N51°44'24.00"E 30.00'	95	S18°55'00.00"E 106.70'	111	N27°00'43"W 40.48'	126	N88°30'16.00"W 19.69'
76	N38°15'36.00"W 67.68'	96	S83°45'00.00"W 108.90'	112	N19°27'22"W 34.96'	127	N32°38'01.00"W 45.05'
77	S15°44'24.00"W 119.39'	97	N16°50'00.00"W 69.40'	113	N10°58'13"W 34.65'	128	S57°21'59.00"W 15.00'
78	S38°15'26.23"E 67.69'	98	N57°05'00.00"W 102.30'	114	N04°45'52"W 42.24'	129	N32°04'10.00"W 133.65'
79	N38°15'55.87"W 40.06'	99	N68°34'45.00"W 221.79'	115	N00°13'59"W 52.43'	130	N29°50'15.00"W 60.23'
80	N30°57'56.00"E 84.25'	100	S53°19'26.00"W 318.85'	116	N25°09'24.00"E 91.79'		
81	S38°15'36.00"E 30.44'	101	N78°26'31.00"W 14.77'	117	S00°13'59.00"E 80.20'		
82	S51°44'25.09"W 70.00'						
83	S38°15'36.00"E 30.44'						
84	S48°12'00.00"W 36.57'						
85	S31°32'00.00"W 34.50'						
86	S56°00'00.00"W 74.38'						

CURVE TABLE

E	CHORD = 563'38"16"W 33.35'
F	CHORD = 582'15"51"W 13.89'
G	CHORD = 545'29"53"E 96.05'
H	CHORD = 547'19"49"E 179.72'
I	CHORD = 56'44"24"W 35.36'
J	CHORD = 583'15"36"E 35.36'
K	CHORD = 541'36"39"E 70.14'
L	CHORD = 51'37"09"W 36.32'
M	CHORD = 539'52"W 33.33'
N	CHORD = N03°40'31"E 194.30'
O	CHORD = 539'44'35.63"W 282.47'
P	CHORD = S03°20'10.89"W 77.17'



SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
PROPERTY MAP
 STA. 28+00 TO 53+00

LEGEND OF SYMBOLS USED ON SOIL AND GEOLOGIC DATA

MINERALOGICAL DESCRIPTION OF ROCK AND SHALE

- A -ARENACEOUS (SANDY)
- L -CALCAREOUS (LIMEY)
- C -ARGILLACEOUS (CLAYEY)

ROCK FIELD HARDNESS

- VS -VERY SOFT
- S -SOFT
- M -MEDIUM
- MH -MODERATELY HARD
- H -HARD
- VH -VERY HARD

SOIL DENSITY/CONSISTENCY

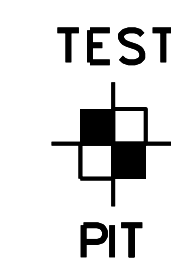
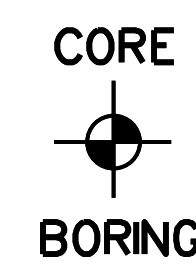
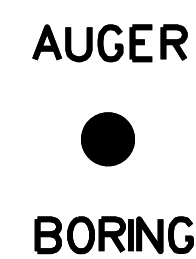
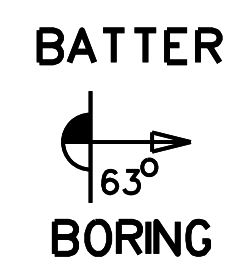
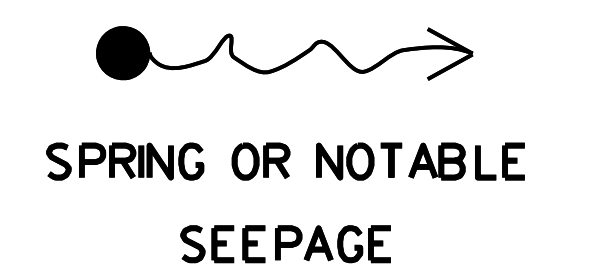
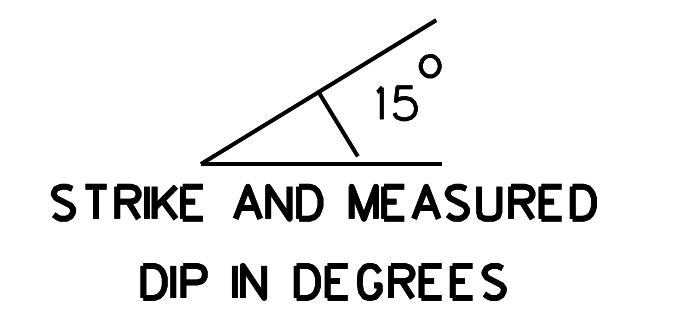
- | | | | |
|------------------|--------------------|-------------------|--------------------|
| GRANULAR | SPOON BLOWS | COHESIVE | SPOON BLOWS |
| VL -VERY LOOSE | 0-4 | VS -VERY SOFT | 0-1 |
| L -LOOSE | 5-10 | S -SOFT | 2-4 |
| MD -MEDIUM DENSE | 11-24 | MST -MEDIUM STIFF | 5-8 |
| D -DENSE | 25-50 | ST -STIFF | 9-15 |
| VD -VERY DENSE | 51+ | VST -VERY STIFF | 16-30 |
| | | H -HARD | 31-60 |
| | | VH -VERY HARD | 61+ |

SOIL-WATER CONSISTENCY

MOISTURE CONTENT BELOW PLASTIC LIMIT
-PL

MOISTURE CONTENT ABOVE PLASTIC LIMIT
+PL

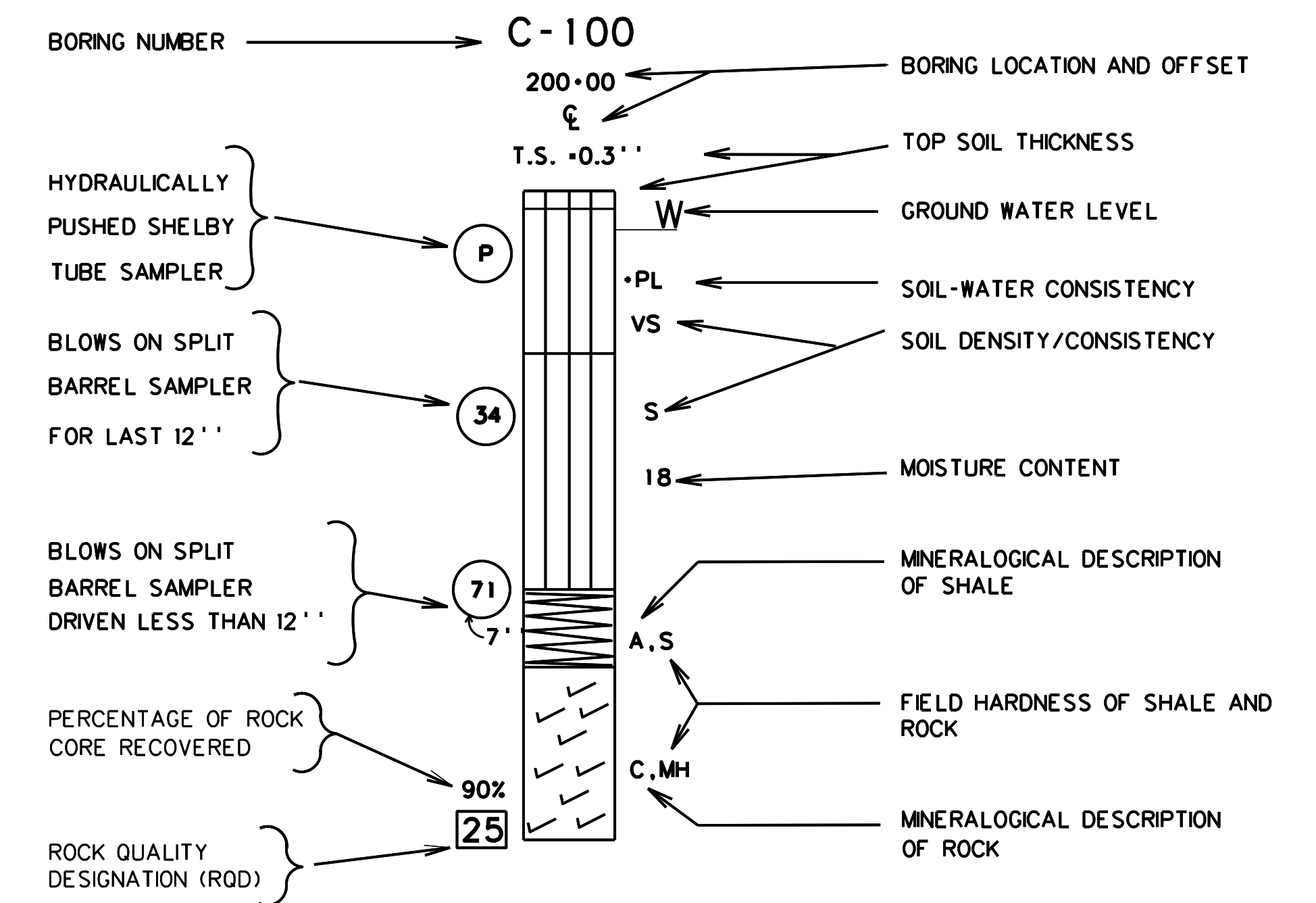
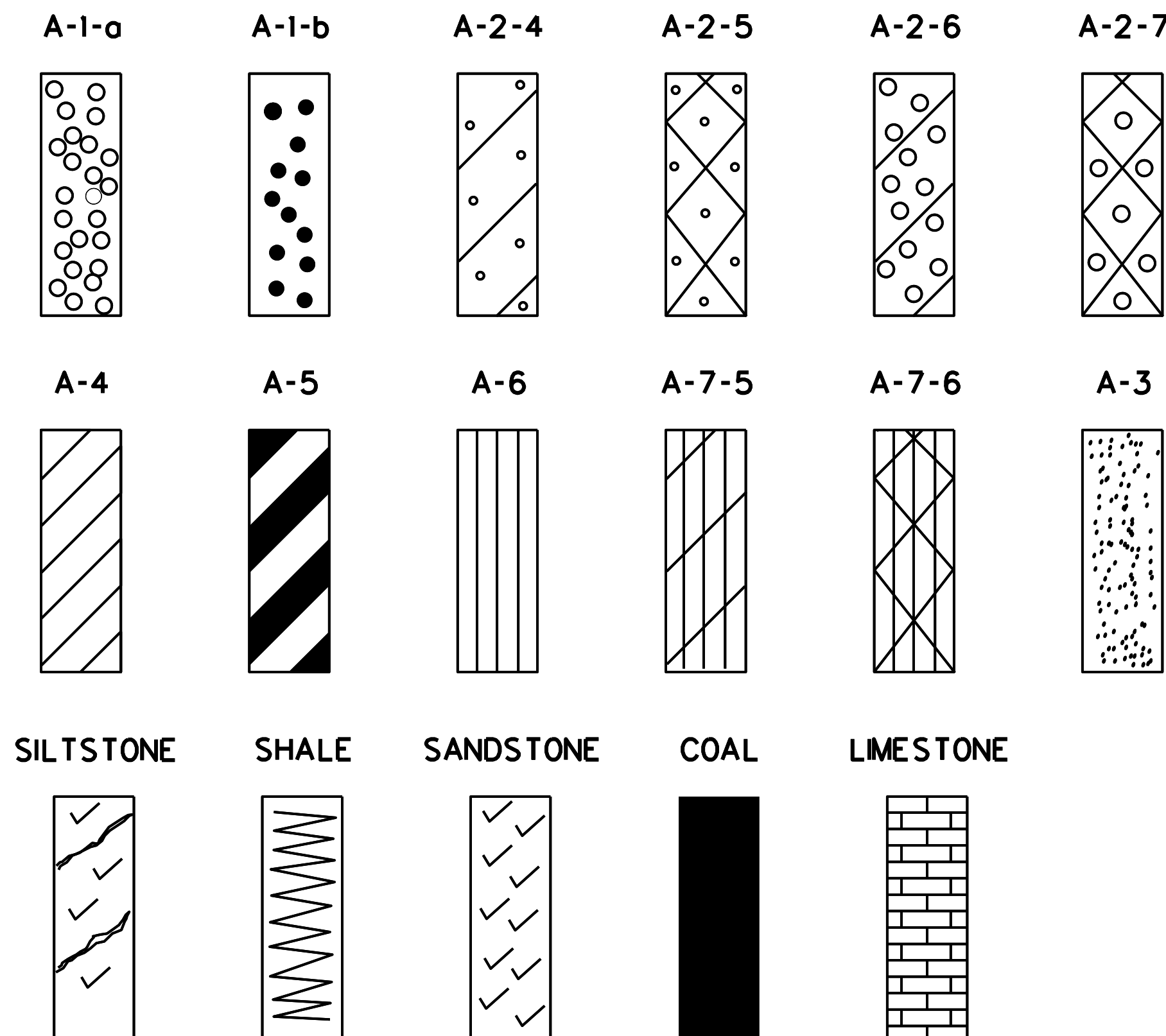
MOISTURE CONTENT ABOVE LIQUID LIMIT
+LL



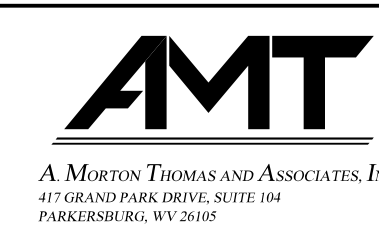
KEY TO IDENTIFICATION OF ROCK HARDNESS AND (ESTIMATED) UNCONFINED COMPRESSIVE STRENGTH INDEX (HCSI)

INDEX	HARDNESS	FIELD IDENTIFICATION	TONS/FT ²	psi
0	Extremely Soft Rock	Indented by Thumb Nail	2.0-7.0	28-100
1	Very Soft Rock	Crumble under firm blows with point of geological pick. Can be peeled by a pocket knife.	7.0-70	100-1000
2	Soft Rock	Can be peeled by a pocket knife with difficulty. Shallow indentations made by firm blow with point of geological hammer.	70-280	1000-4000
3	Medium hard Rock	Cannot be scraped or peeled with a pocket knife. Specimen can be fractured with single firm blow of hammer end of geological pick.	280-560	4000-8000
4	Hard Rock	Specimen requires more than one blow with hammer end of geological pick to fracture it.	560-1120	8000-16,000
5	Very Hard Rock	Specimen requires many blows of hammer end of geological pick to fracture it.	1120-2240	16,000-32,000
6	Extremely Hard Rock	Specimen can only be chipped with point of geological hammer.	Over 2240	Over 32,000

Table 203 (R)



SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SOIL AND GEOLOGIC INFORMATION PLANS

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	208	301

TRIAD TRIAD ENGINEERING, INC. **Log BORING P-1** WVDOH

Project Name: Van Voorhis Road Section 1 Project Number: 04-19-0484
 Boring Location: Station: 520 Offset: ft. Rt. Elevation (ft.): 1007.9-ft EST.
 Date Started: 3/25/2020 County: Monongalia Inspector: RMS
 Date Completed: 3/25/2020 District: D-4 Entered By: RMS Driller / Company: NGE

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, grain size, structures, moisture, consistency	SAMPLE				Additional Notes	RMR (Total)
			Type	INT Depth	Run Rec	Blows Cnt (N-Value)		
1007.90	0.0							
1007.40	0.5	Black ASPHALT						
1007.10	0.8	Gray FILL: gravel and sand	0.5-2.0	1.5 ft.	10-35-38 (73)			
		Gray-brown SAND: medium- to coarse-grained, trace gravel, moist		100 %				
1004.90	3.0	BORING COMPLETED AT 3.0 ft.	2.5-2.8	0.3 ft.	50(0.3)			
				100 %				

Sampling Method: Shelby Tube Solid Auger Hollow Auger Rock Core Tricone

Water Level Observations: Immediate: NW ft. At Completion: NW ft. After: NA Hrs. NA ft. Before Coring: NA ft. Backfilled: NA ft.

TRIAD TRIAD ENGINEERING, INC. **Log BORING P-2** WVDOH

Project Name: Van Voorhis Road Section 1 Project Number: 04-19-0484
 Boring Location: Station: 1715 Offset: ft. Rt. Elevation (ft.): 1070.4-ft EST.
 Date Started: 3/25/2020 County: Monongalia Inspector: RMS
 Date Completed: 3/25/2020 District: D-4 Entered By: RMS Driller / Company: NGE

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, grain size, structures, moisture, consistency	SAMPLE				Additional Notes	RMR (Total)
			Type	INT Depth	Run Rec	Blows Cnt (N-Value)		
1070.40	0.0							
1070.00	0.4	Black ASPHALT						
1069.70	0.7	Gray FILL: gravel and sand, dry	0.4-1.9	1.5 ft.	20-10-10 (20)			
		Orange-brown SANDY CLAY: little gravel, stiff to very stiff, moist		100 %				
			2.5-4.0	1.5 ft.	3-6-8 (14)			
				100 %				
1065.40	5.0	Gray-orange CLAY: trace residual claystone gravel, stiff, moist						
1063.90	6.5	BORING COMPLETED AT 6.5 ft.	5.0-6.5	1.5 ft.	5-5-6 (11)			
				100 %				

Sampling Method: Shelby Tube Solid Auger Hollow Auger Rock Core Tricone

Water Level Observations: Immediate: NW ft. At Completion: NW ft. After: NA Hrs. NA ft. Before Coring: NA ft. Backfilled: NA ft.

TRIAD TRIAD ENGINEERING, INC. **Log BORING P-3** WVDOH

Project Name: Van Voorhis Road Section 1 Project Number: 04-19-0484
 Boring Location: Station: 2800 Offset: 5.0 ft. Rt. Elevation (ft.): 1052.7-ft EST.
 Date Started: 3/17/2020 County: Monongalia Inspector: NCH
 Date Completed: 3/17/2020 District: D-4 Entered By: RMS Driller / Company: NGE

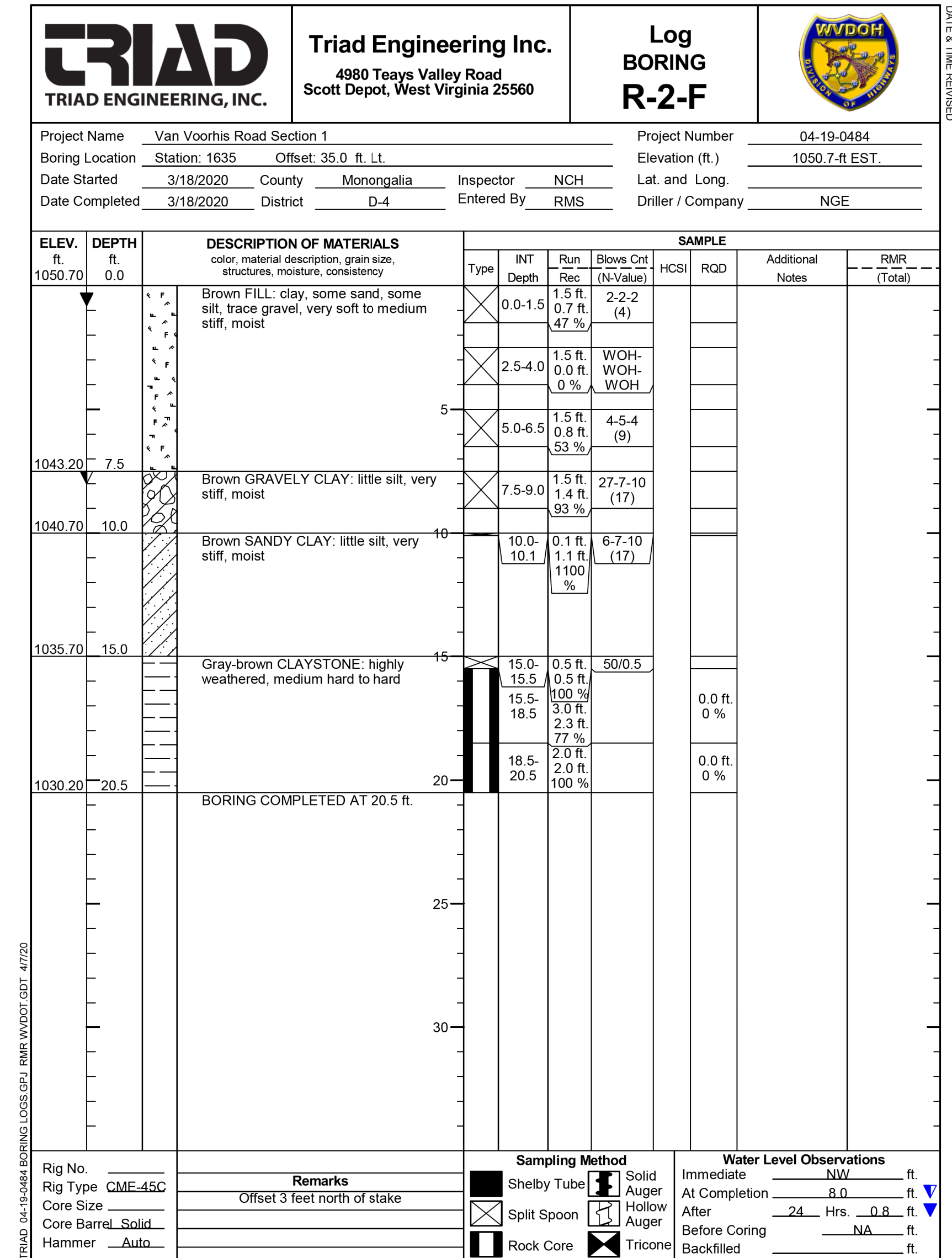
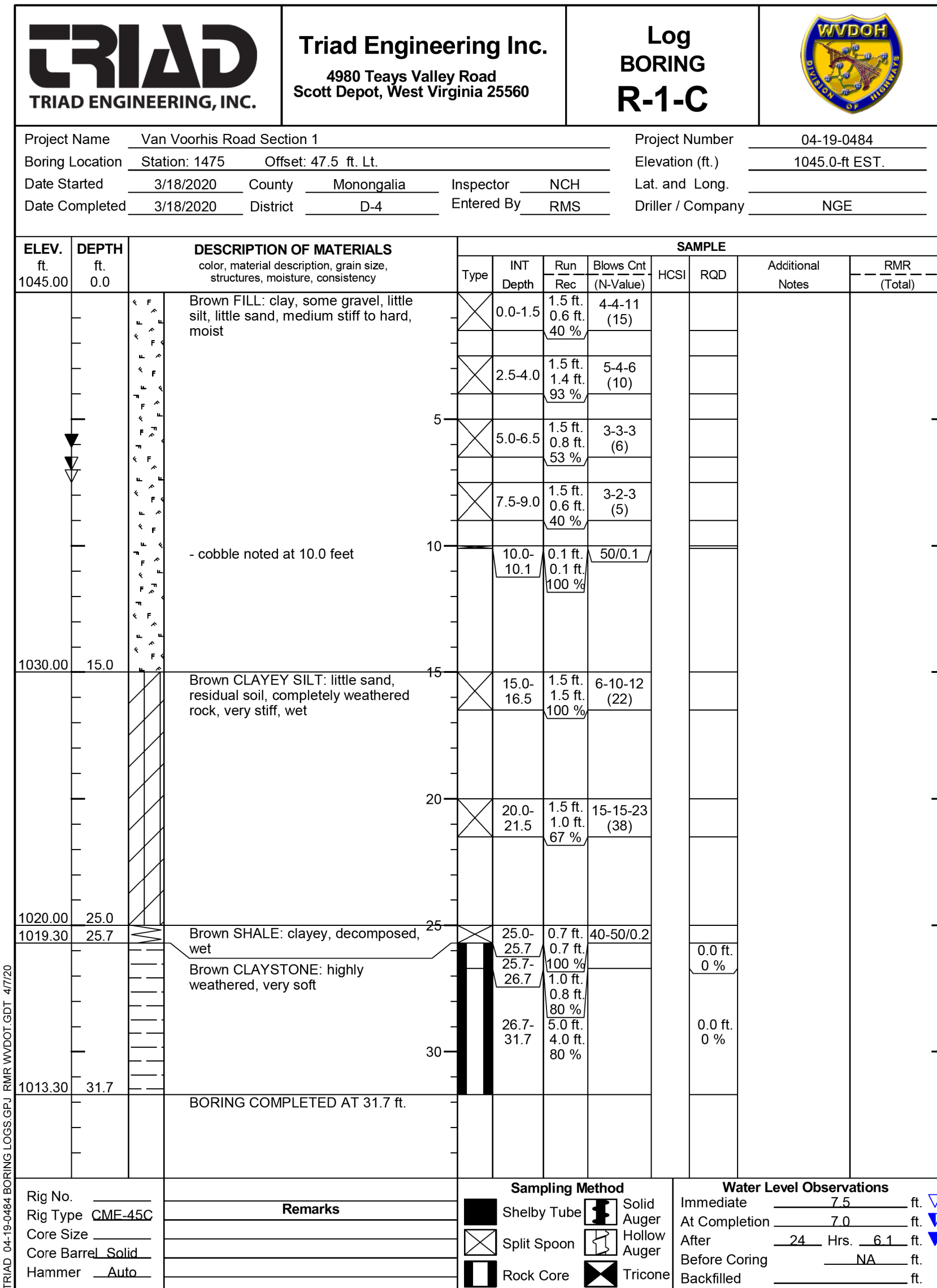
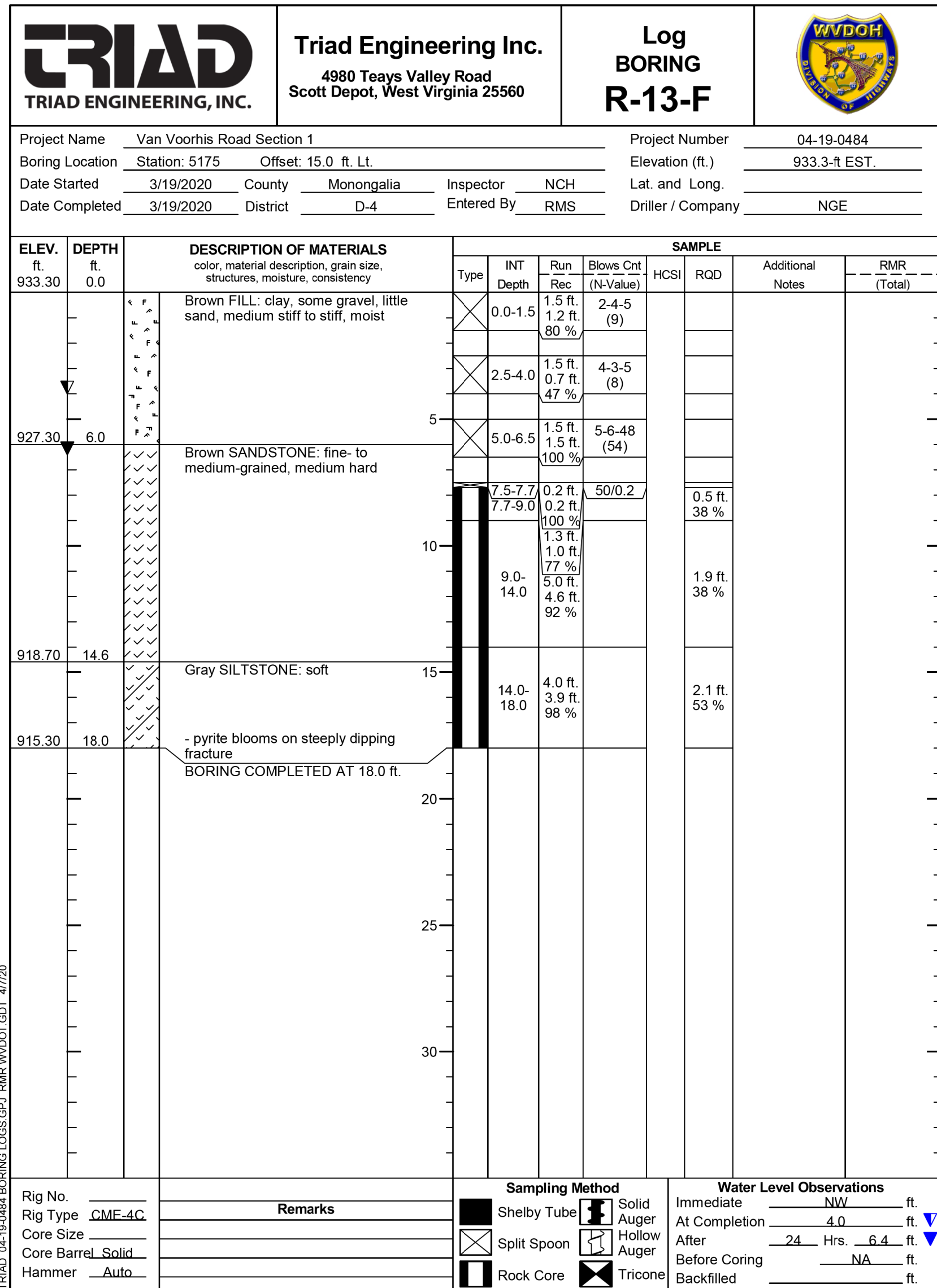
ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, grain size, structures, moisture, consistency	SAMPLE				Additional Notes	RMR (Total)
			Type	INT Depth	Run Rec	Blows Cnt (N-Value)		
1052.70	0.0							
1051.70	1.0	Black ASPHALT						
		Brown SILTY CLAY: stiff to very stiff, moist	1.0-2.5	1.5 ft.	20-7-6 (13)			
				0.4 ft.				
			2.5-4.0	1.5 ft.	7-6-8 (14)			
				0.5 ft.				
				33 %				
				100 %				
1046.20	6.5	BORING COMPLETED AT 6.5 ft.	5.0-6.5	1.5 ft.	12-16-19 (35)			
				100 %				

Sampling Method: Shelby Tube Solid Auger Hollow Auger Rock Core Tricone

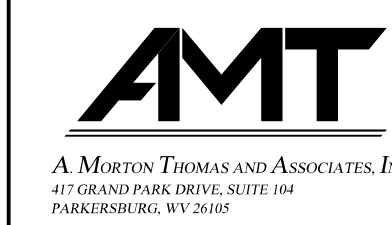
Water Level Observations: Immediate: NW ft. At Completion: NW ft. After: NA Hrs. NA ft. Before Coring: NA ft. Backfilled: NA ft.

SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	210	301



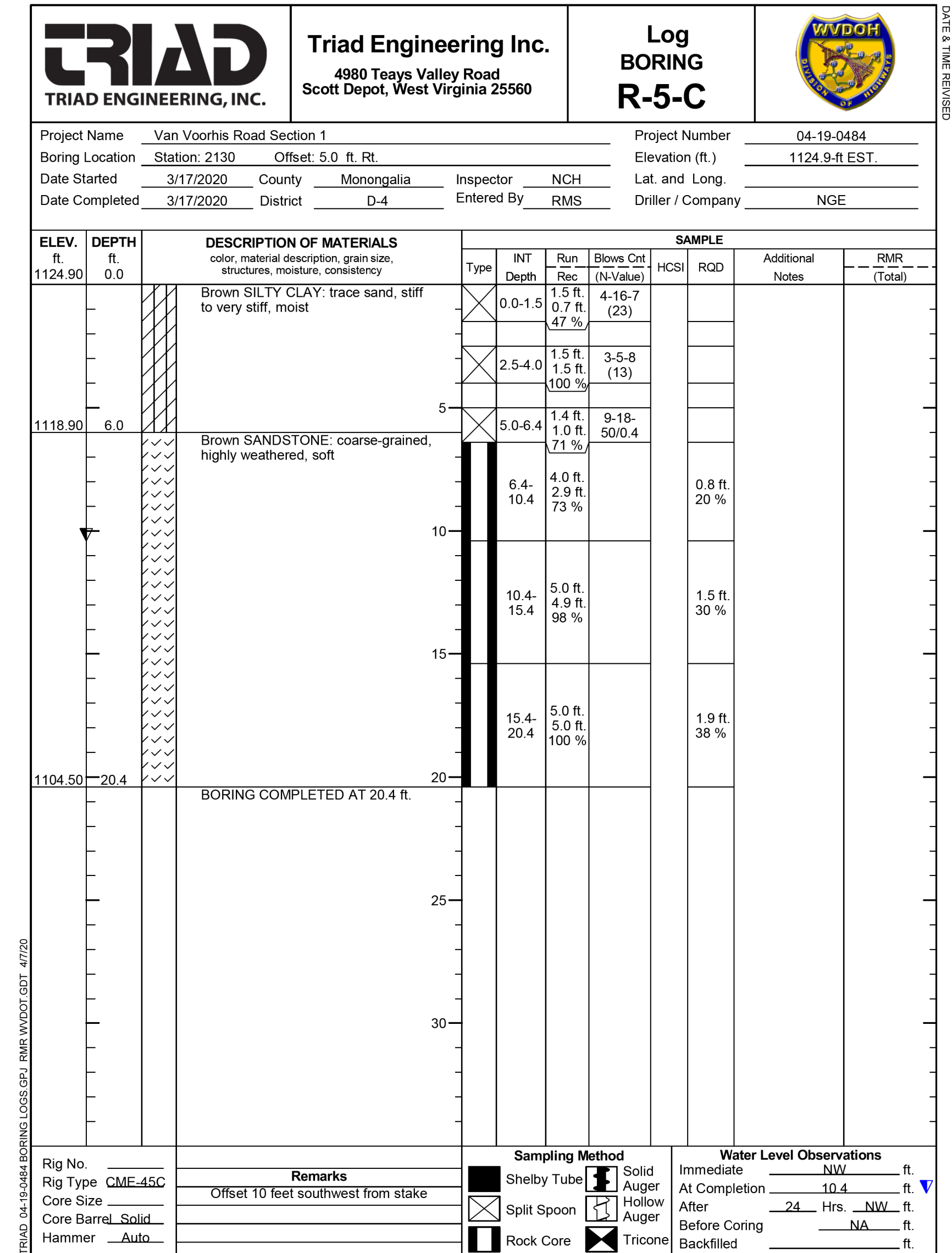
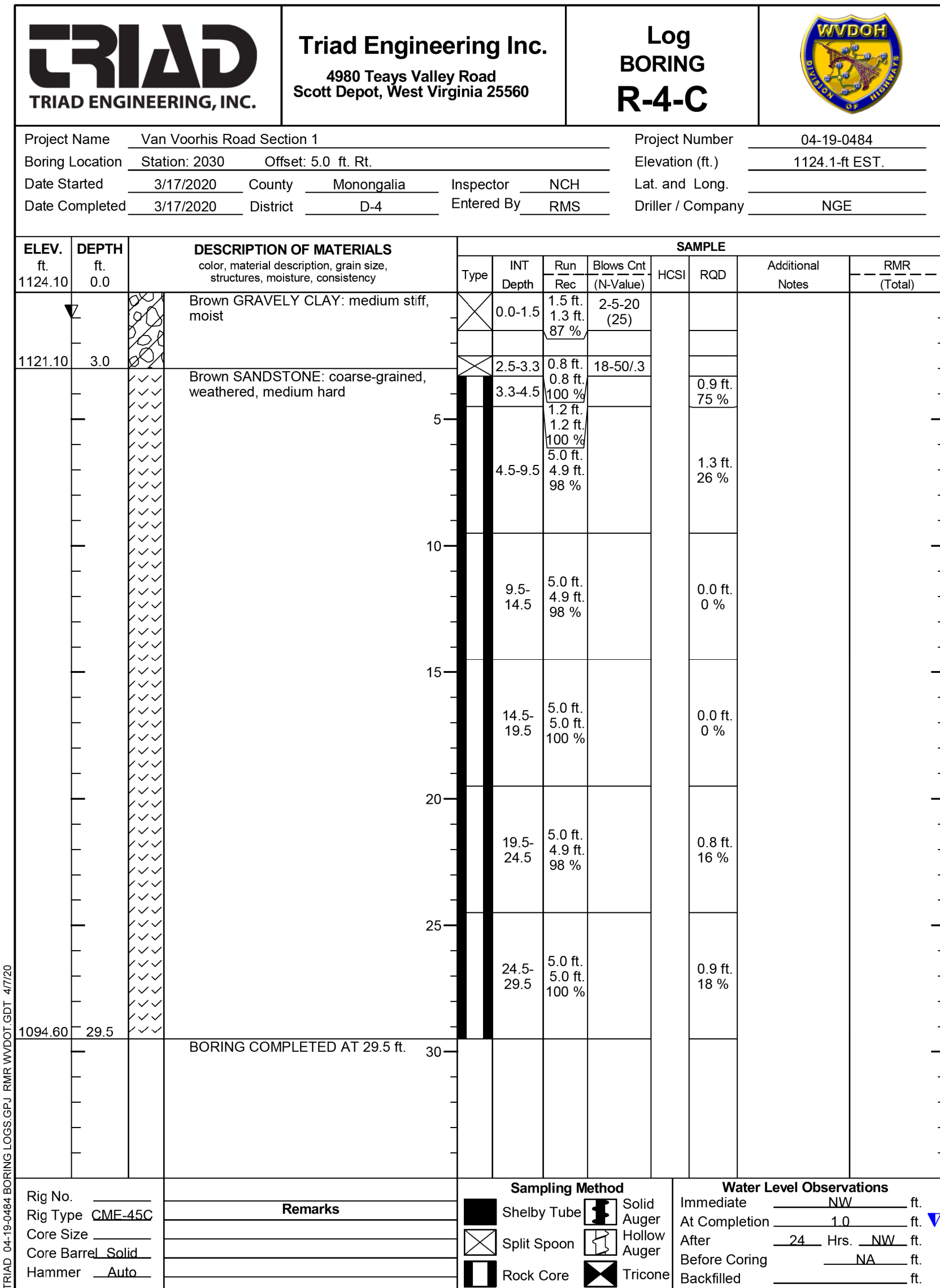
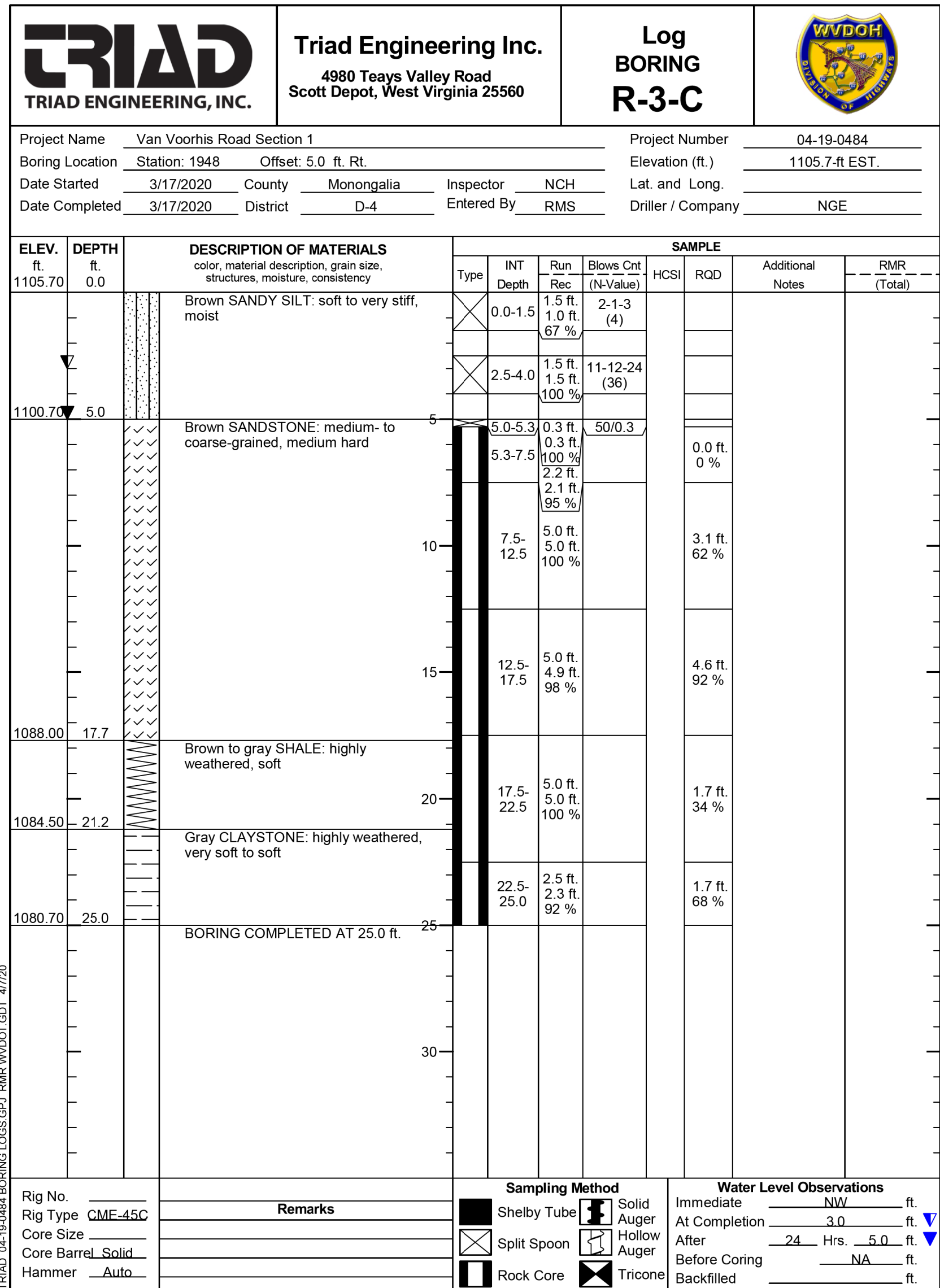
SUBMITTED 6/29/2020



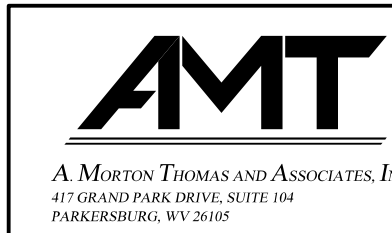
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
SOIL AND GEOLOGIC INFORMATION PLANS

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	211	301

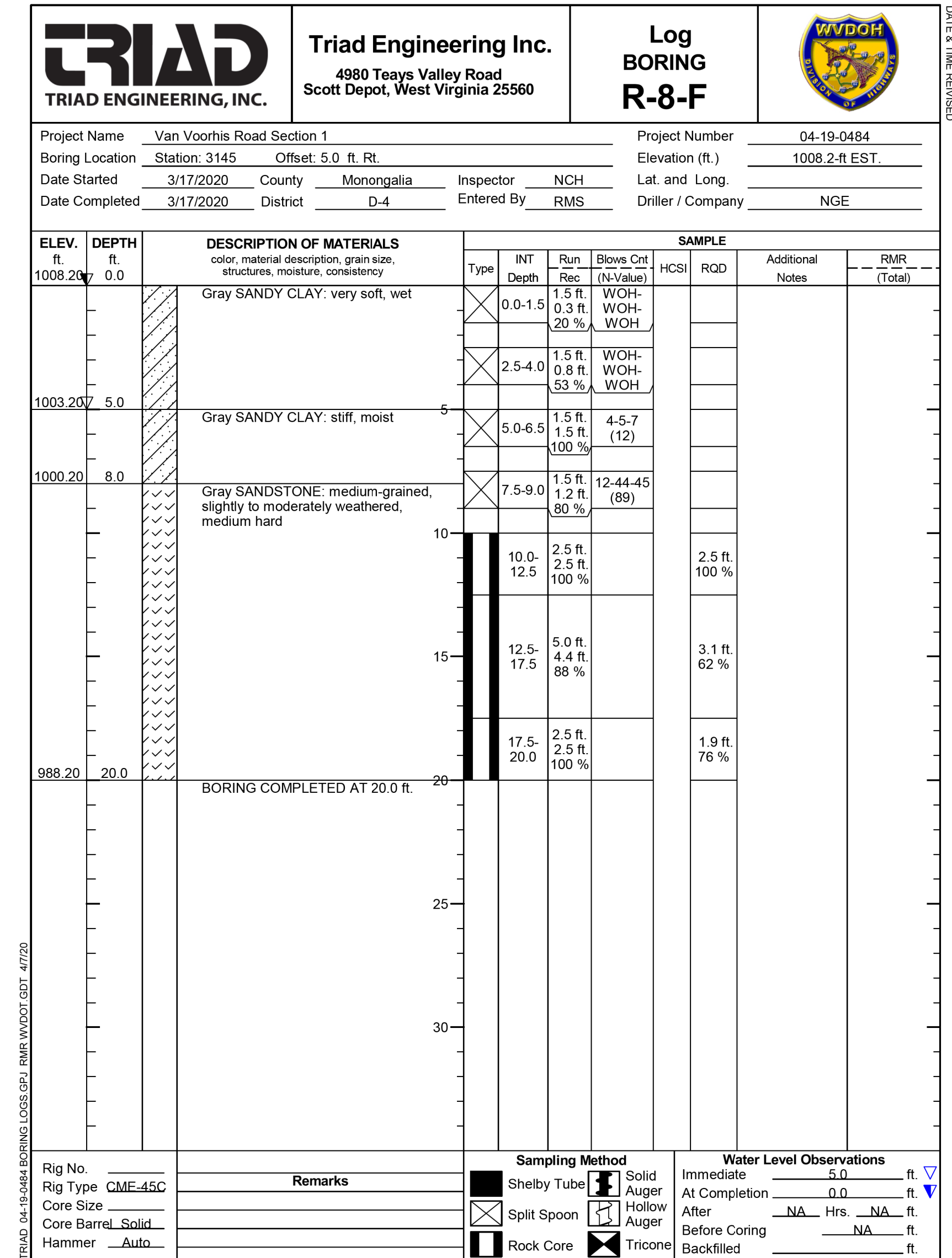
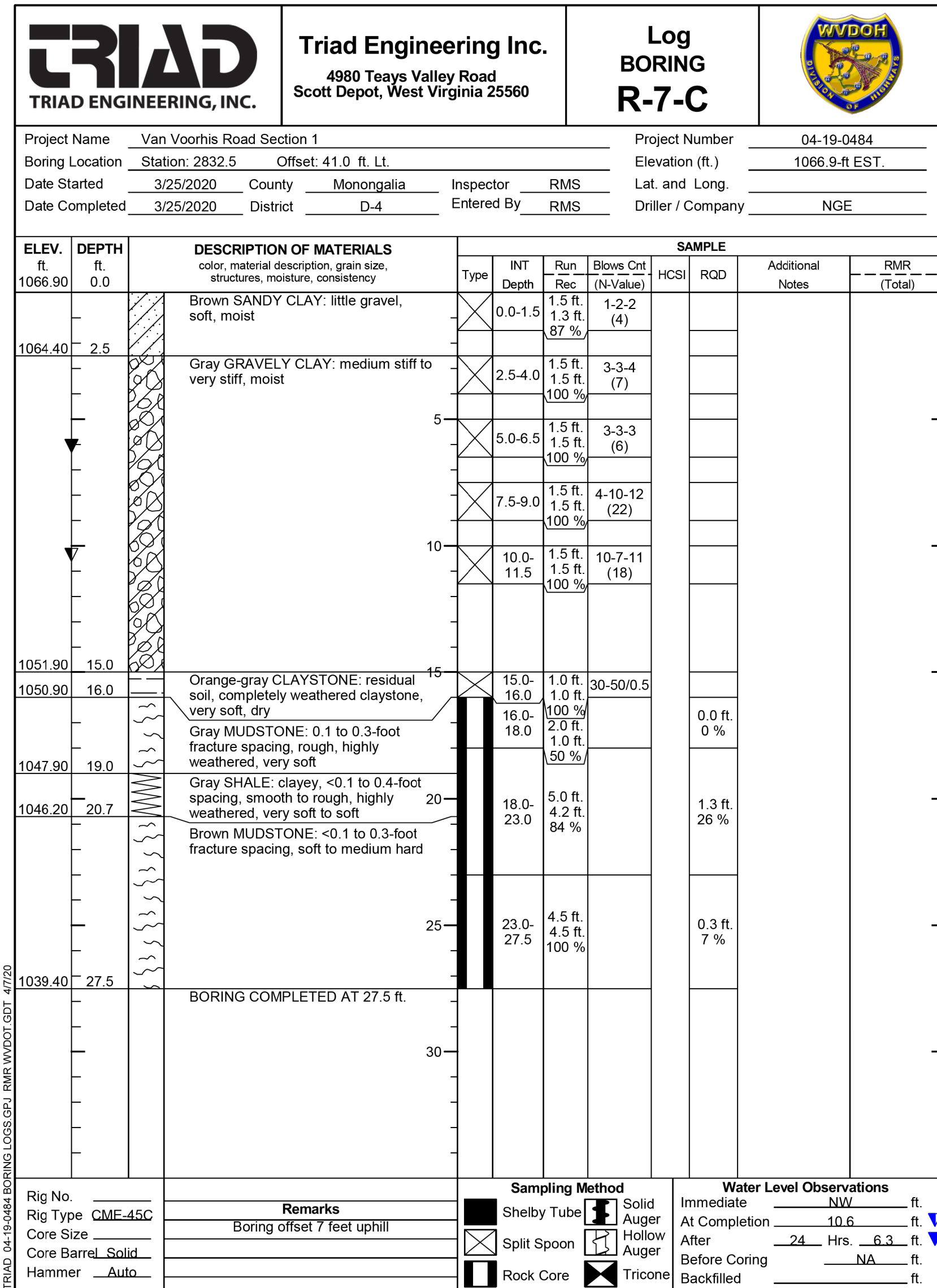
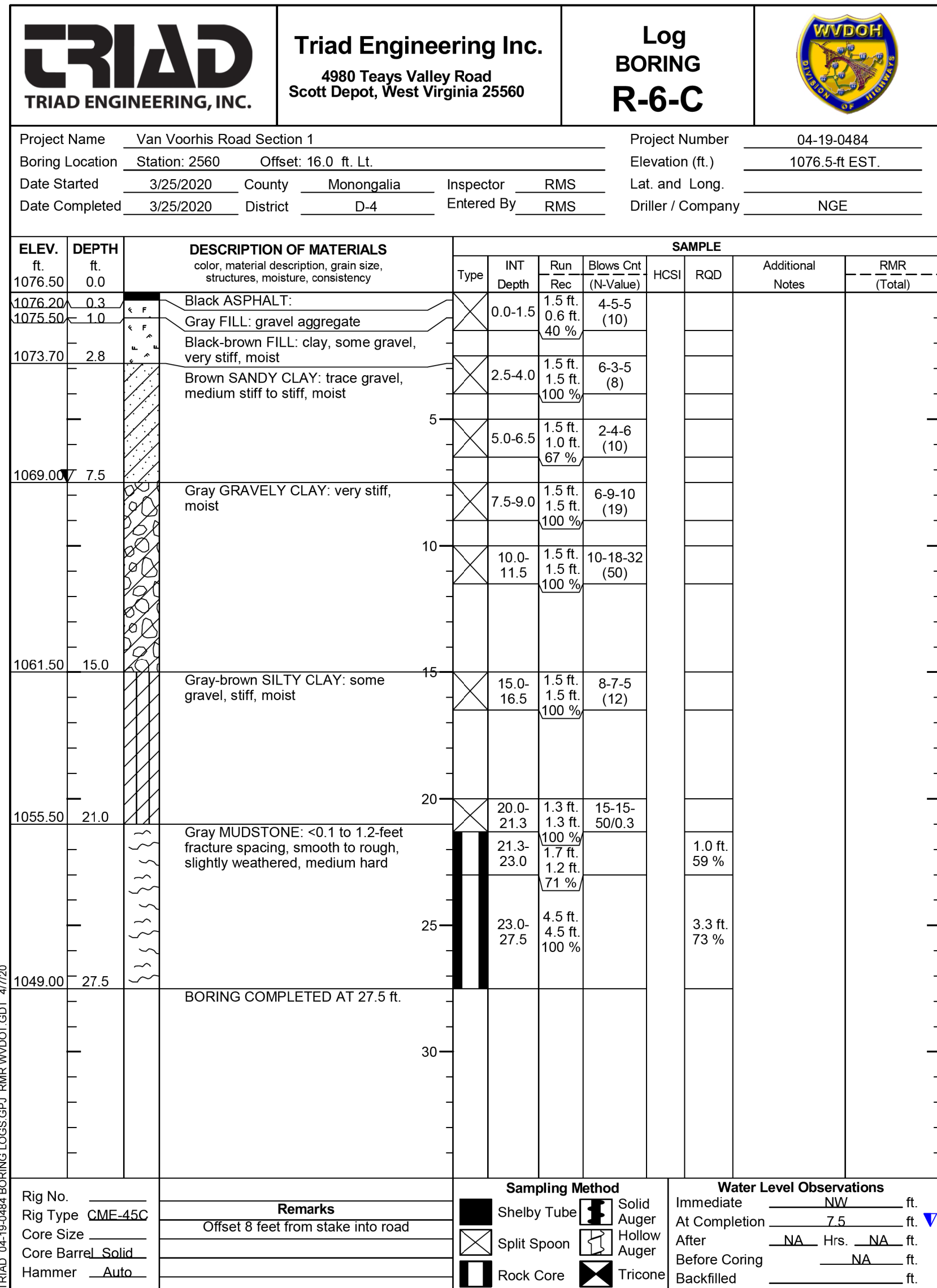


SUBMITTED 6/29/2020

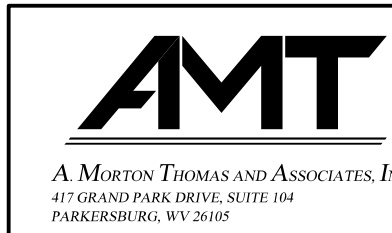


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
SOIL AND GEOLOGIC INFORMATION PLANS

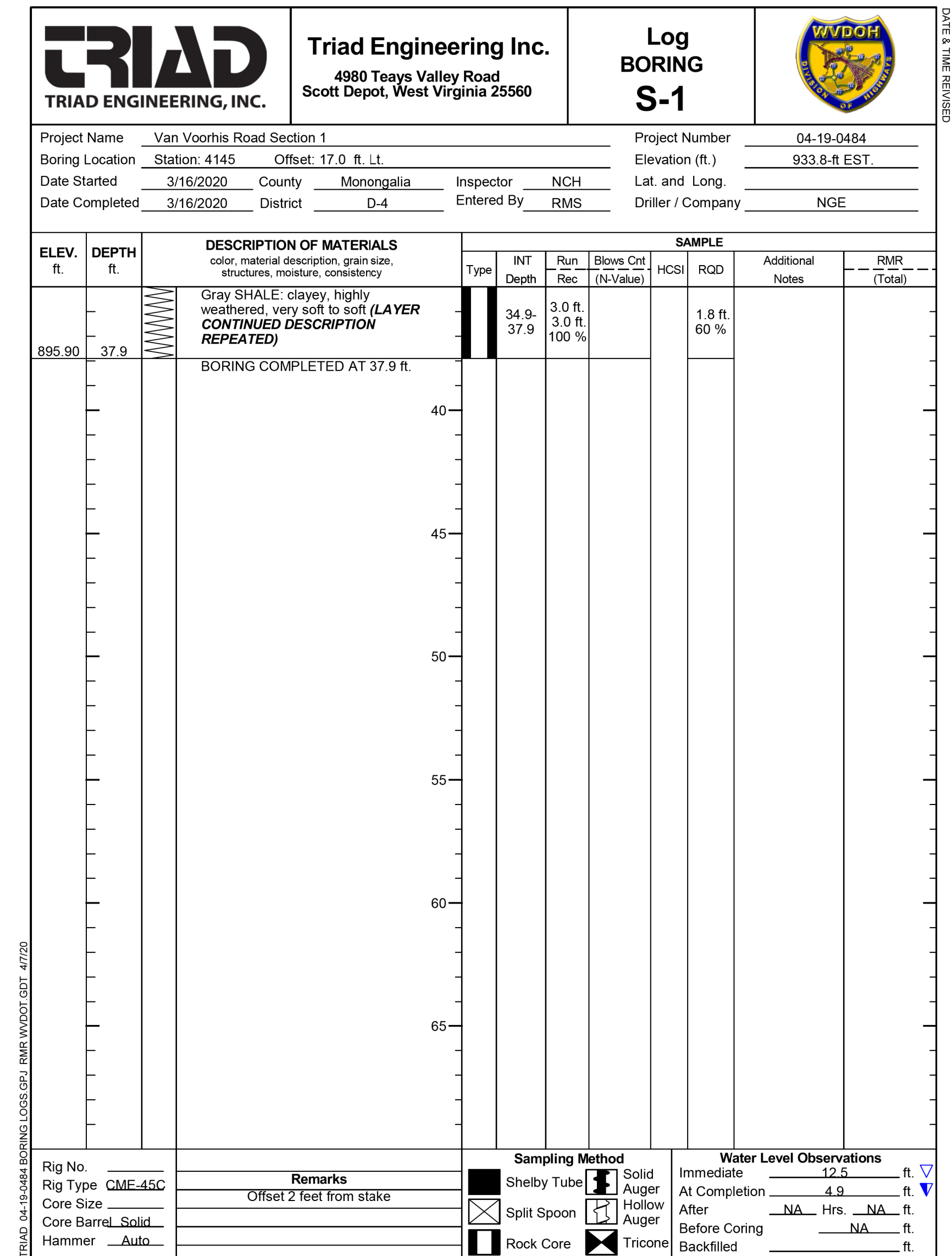
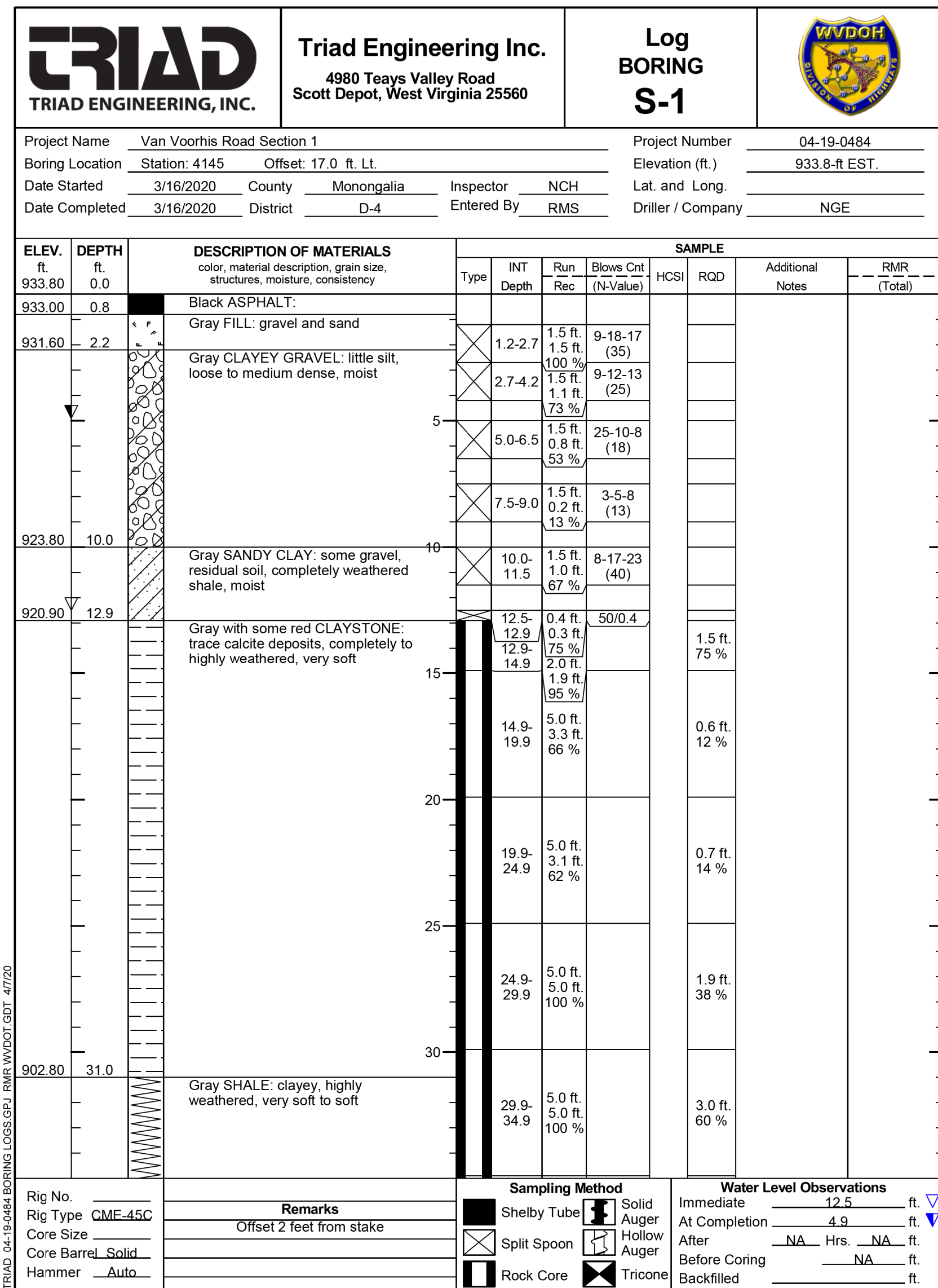
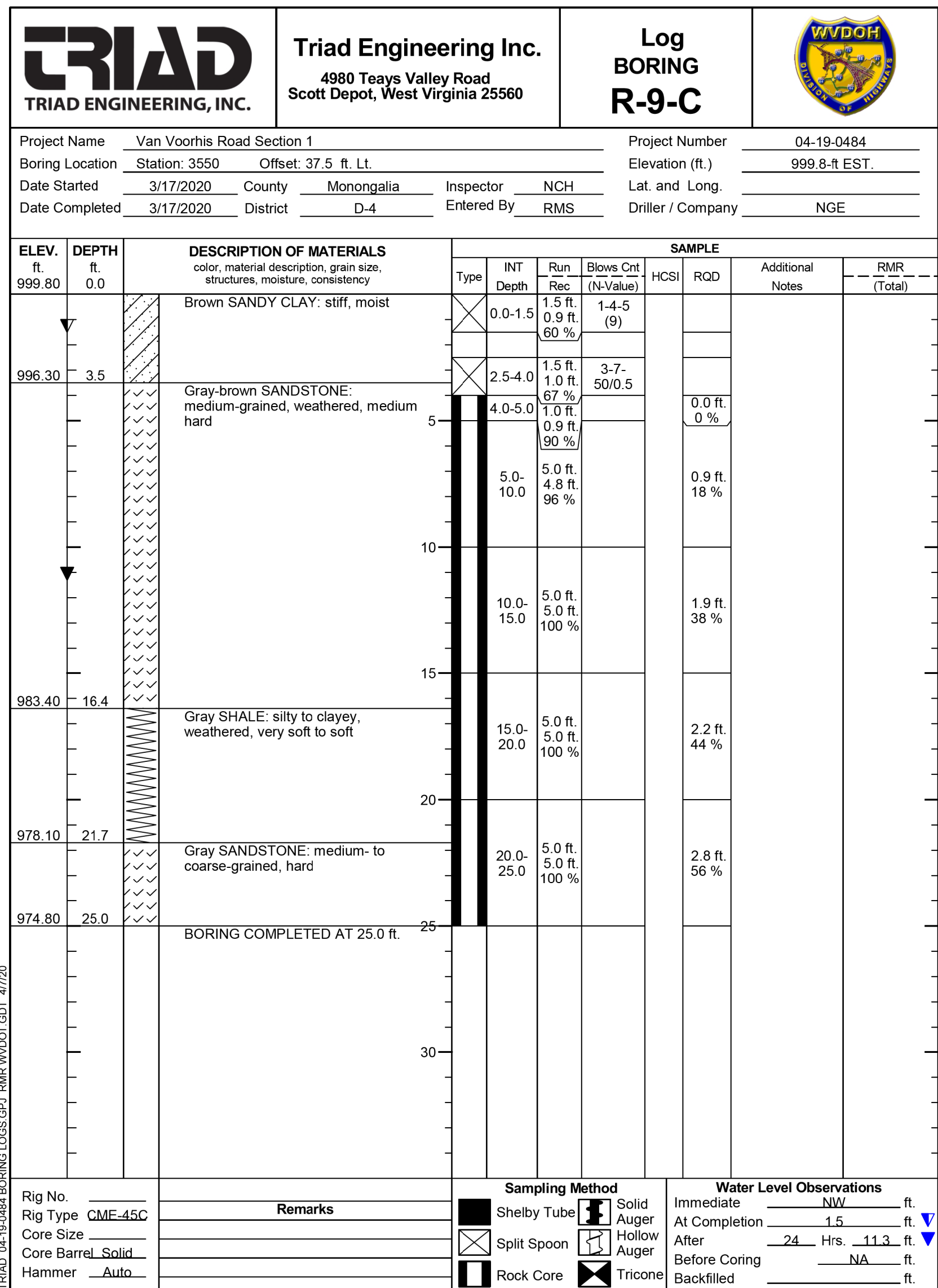


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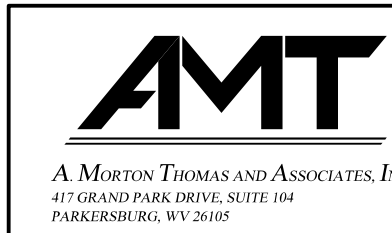


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DIVISION OF HIGHWAYS
SOIL AND GEOLOGIC INFORMATION PLANS



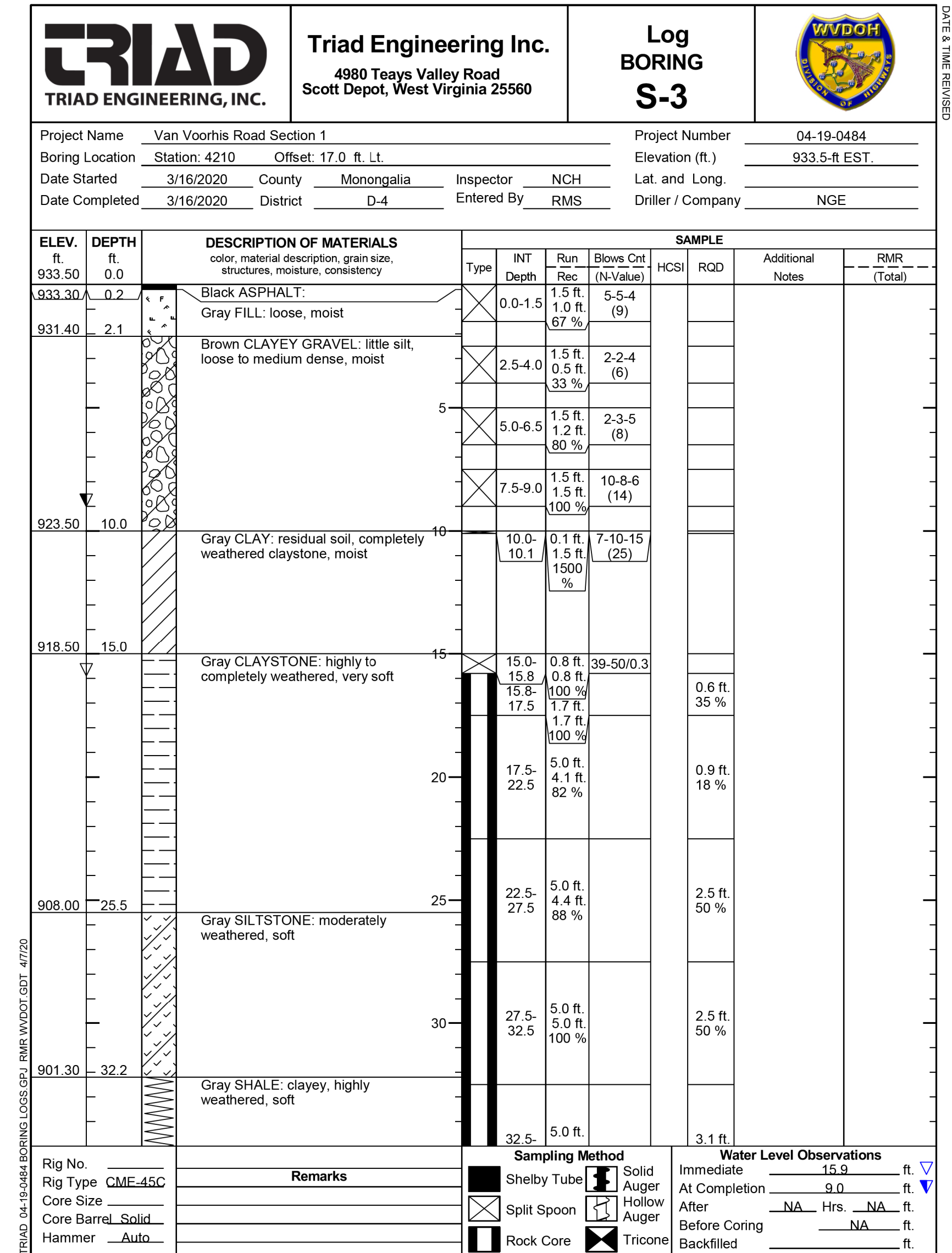
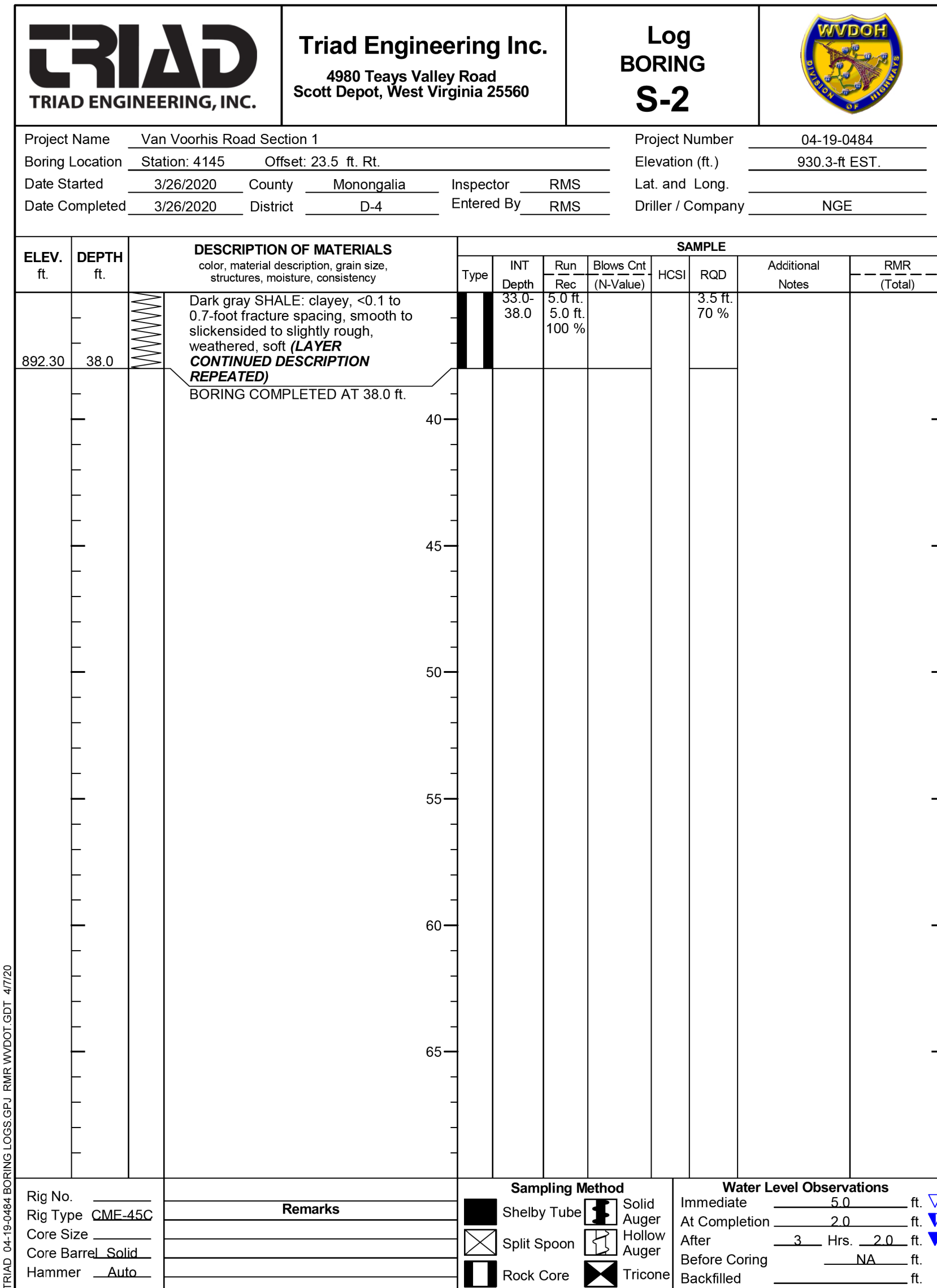
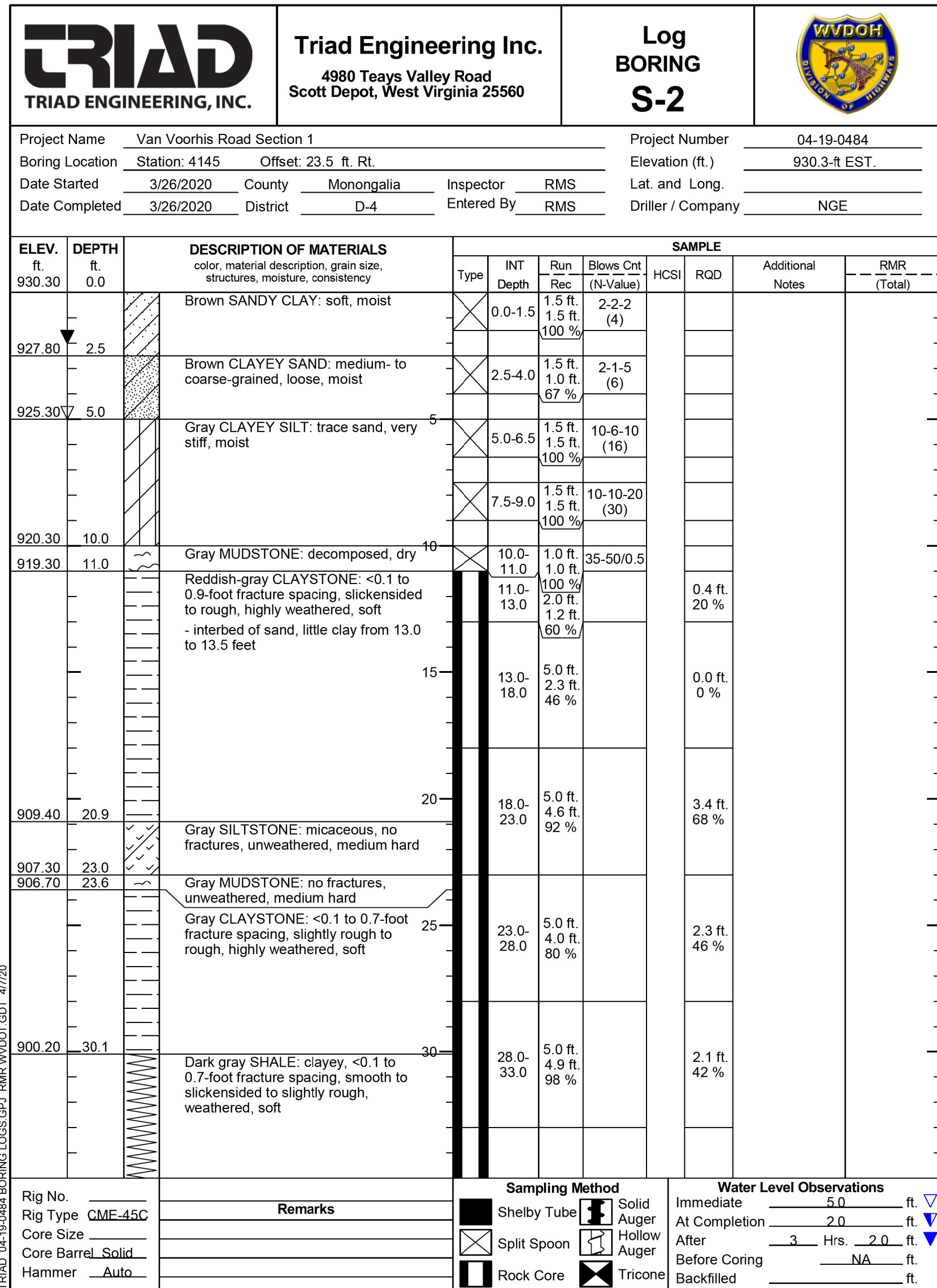
SUBMITTED 6/29/2020



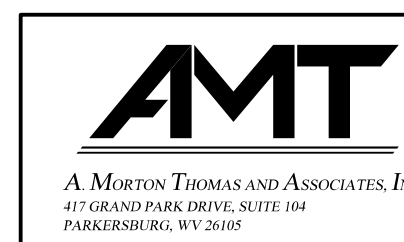
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
SOIL AND GEOLOGIC INFORMATION PLANS

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	214	301



SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SOIL AND GEOLOGIC INFORMATION PLANS

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	215	301

TRIAD TRIAD ENGINEERING, INC.		Triad Engineering Inc. 4980 Teays Valley Road Scott Depot, West Virginia 25560		Log BORING S-3			
Project Name: Van Voorhis Road Section 1				Project Number: 04-19-0484			
Boring Location: Station: 4210 Offset: 17.0 ft. Lt.				Elevation (ft.): 933.5-ft EST.			
Date Started: 3/16/2020 County: Monongalia Inspector: NCH				Date Completed: 3/16/2020 District: D-4 Entered By: RMS			
Date Completed: 3/16/2020 District: D-4 Entered By: RMS				Driller / Company: NGE			

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, grain size, structures, moisture, consistency	SAMPLE					Additional Notes	RMR (Total)
			Type	INT Depth	Run Rec	Blows Cnt (N-Value)	HCSI		
893.00	40.5	Gray SHALE: clayey, highly weathered, soft (LAYER CONTINUED DESCRIPTION REPEATED)	Shelby Tube	37.5	5.0 ft. 100 %			62 %	
	40	BORING COMPLETED AT 40.5 ft.						0.8 ft. 27 %	

Rig No. _____	Remarks _____	Sampling Method: <input checked="" type="checkbox"/> Shelby Tube <input type="checkbox"/> Solid Auger <input type="checkbox"/> Hollow Auger <input type="checkbox"/> Split Spoon <input type="checkbox"/> Rock Core <input type="checkbox"/> Tricone	Water Level Observations: Immediate 15.9 ft. <input type="checkbox"/> At Completion 9.0 ft. <input type="checkbox"/> After NA Hrs. NA ft. <input type="checkbox"/> Before Coring NA ft. <input type="checkbox"/> Backfilled _____ ft.
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TRIAD TRIAD ENGINEERING, INC.		Triad Engineering Inc. 4980 Teays Valley Road Scott Depot, West Virginia 25560		Log BORING S-4			
Project Name: Van Voorhis Road Section 1				Project Number: 04-19-0484			
Boring Location: Station: 4200 Offset: 22.0 ft. Rt.				Elevation (ft.): 933.2-ft EST.			
Date Started: 3/26/2020 County: Monongalia Inspector: RMS				Date Completed: 3/26/2020 District: D-4 Entered By: RMS			
Date Completed: 3/26/2020 District: D-4 Entered By: RMS				Driller / Company: NGE			

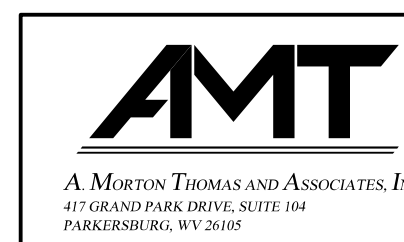
ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, grain size, structures, moisture, consistency	SAMPLE					Additional Notes	RMR (Total)
			Type	INT Depth	Run Rec	Blows Cnt (N-Value)	HCSI		
933.20	0.0	Brown FILL: clay and sand, little gravel, medium stiff, moist	Shelby Tube	0.0-1.5	1.5 ft. 100 %	11-5-2 (7)			
928.20	5.0	Brown SAND: medium- to coarse-grained, very loose to loose, wet	Shelby Tube	2.5-4.0	1.5 ft. 100 %	3-2-1 (3)			
923.20	10.0	Gray CLAY: residual soil, completely weathered mudstone, very stiff to hard, dry	Shelby Tube	5.0-6.5	1.5 ft. 100 %	1-2-2 (4)			
919.70	13.5	Gray SHALE: clayey, <0.1 to 0.6-foot fracture spacing, smooth to rough, highly weathered, soft	Shelby Tube	7.5-9.0	1.5 ft. 100 %	WOH- WOH-5			
915.20	18.0	Gray MUDSTONE: <0.1 to 0.4-foot fracture spacing, rough and slickensided, weathered, medium hard	Shelby Tube	15.0-18.0	3.0 ft. 73 %			1.1 ft. 37 %	
913.70	19.5	Gray and red CLAYSTONE: <0.1 to 0.6-foot fracture spacing, rough and slickensided, highly weathered, soft	Shelby Tube	18.0-23.0	5.0 ft. 90 %			1.9 ft. 38 %	
907.30	25.9	Gray MUDSTONE: 0.2 to 1.5-foot fracture spacing, slightly rough, slightly weathered, medium hard - red soft claystone interbed from 28.0 to 28.4 feet	Shelby Tube	23.0-28.0	5.0 ft. 92 %			1.5 ft. 30 %	
900.20	33.0	Gray SILTSTONE: 0.1 to 0.6-foot fracture spacing, smooth to slightly rough, unweathered, medium hard	Shelby Tube	28.0-33.0	5.0 ft. 82 %			3.5 ft. 70 %	
898.50	34.7								

Rig No. _____	Remarks: Offset 13 feet from stake	Sampling Method: <input checked="" type="checkbox"/> Shelby Tube <input type="checkbox"/> Solid Auger <input type="checkbox"/> Hollow Auger <input type="checkbox"/> Split Spoon <input type="checkbox"/> Rock Core <input type="checkbox"/> Tricone	Water Level Observations: Immediate 10.0 ft. <input type="checkbox"/> At Completion 5.0 ft. <input type="checkbox"/> After NA Hrs. NA ft. <input type="checkbox"/> Before Coring NA ft. <input type="checkbox"/> Backfilled _____ ft.
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TRIAD TRIAD ENGINEERING, INC.		Triad Engineering Inc. 4980 Teays Valley Road Scott Depot, West Virginia 25560		Log BORING S-4			
Project Name: Van Voorhis Road Section 1				Project Number: 04-19-0484			
Boring Location: Station: 4200 Offset: 22.0 ft. Rt.				Elevation (ft.): 933.2-ft EST.			
Date Started: 3/26/2020 County: Monongalia Inspector: RMS				Date Completed: 3/26/2020 District: D-4 Entered By: RMS			
Date Completed: 3/26/2020 District: D-4 Entered By: RMS				Driller / Company: NGE			

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS color, material description, grain size, structures, moisture, consistency	SAMPLE					Additional Notes	RMR (Total)
			Type	INT Depth	Run Rec	Blows Cnt (N-Value)	HCSI		
892.20	41.0	Gray CLAYSTONE: some interbedded mudstone, <0.1 to 0.7-foot fracture spacing, smooth to rough, highly weathered, soft to medium hard (LAYER CONTINUED DESCRIPTION REPEATED)	Shelby Tube	33.0-38.0	5.0 ft. 100 %			2.2 ft. 44 %	
	40	BORING COMPLETED AT 41.0 ft.						2.2 ft. 73 %	

Rig No. _____	Remarks: Offset 13 feet from stake	Sampling Method: <input checked="" type="checkbox"/> Shelby Tube <input type="checkbox"/> Solid Auger <input type="checkbox"/> Hollow Auger <input type="checkbox"/> Split Spoon <input type="checkbox"/> Rock Core <input type="checkbox"/> Tricone	Water Level Observations: Immediate 10.0 ft. <input type="checkbox"/> At Completion 5.0 ft. <input type="checkbox"/> After NA Hrs. NA ft. <input type="checkbox"/> Before Coring NA ft. <input type="checkbox"/> Backfilled _____ ft.
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REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SOIL AND GEOLOGIC INFORMATION PLANS

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	216	301

TRIAD TRIAD ENGINEERING, INC. **Log BORING W-1** WVDOH

Project Name: Van Voorhis Road Section 1 Project Number: 04-19-0484
 Boring Location: Station: 2500 Offset: 16.0 ft. Rt. Elevation (ft.): 1082.9-ft EST.
 Date Started: 3/17/2020 County: Monongalia Inspector: NCH Lat. and Long.:
 Date Completed: 3/17/2020 District: D-4 Entered By: RMS Driller / Company: NGE

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS	Type	INT Depth	Run Rec	Blows Cnt (N-Value)	HCSI	RQD	Additional Notes	RMR (Total)
1082.90	0.0	Brown FILL: clay, and silt, some sand, very soft to soft, moist	5	0.0-1.5	1.5 ft. 0.8 ft. 53 %	2-1-2 (3)				
				2.5-4.0	1.5 ft. 0.6 ft. 40 %	1-1-1 (2)				
				5.0-6.5	1.5 ft. 0.9 ft. 60 %	1-2-1 (3)				
				7.5-9.0	1.5 ft. 0.5 ft. 33 %	1-2-1 (3)				
1072.90	10.0	Brown FILL: clay with sand, stiff to very stiff, moist	10	10.0-11.5	1.5 ft. 1.3 ft. 87 %	4-13-14 (27)				
				15.0-16.5	1.5 ft. 1.3 ft. 87 %	8-9-7 (16)				
1059.40	23.5	Gray SHALE: clayey, highly to moderately weathered, very soft to soft	25	25.0-25.8	0.8 ft. 0.8 ft. 100 %	39-50/0.3		0.0 ft. 0 %		
				25.8-26.8	1.0 ft. 0.5 ft. 50 %			1.2 ft. 40 %		
				26.8-29.8	3.0 ft. 3.0 ft. 100 %					
1053.10	29.8	Gray CLAYSTONE: highly weathered to moderately weathered, soft	30	29.8-34.8	5.0 ft. 3.9 ft. 78 %			0.9 ft. 18 %		

Rig No. _____ Rig Type CME-45C Core Size _____ Core Barrel Solid Hammer Auto

Remarks _____

Sampling Method: Shelby Tube Solid Auger Hollow Auger Split Spoon Rock Core Tricone

Water Level Observations: Immediate NW ft. 6.0 At Completion After 24 Hrs. 10.4 ft. Before Coring NA ft. Backfilled _____ ft.

TRIAD TRIAD ENGINEERING, INC. **Log BORING W-1** WVDOH

Project Name: Van Voorhis Road Section 1 Project Number: 04-19-0484
 Boring Location: Station: 2500 Offset: 16.0 ft. Rt. Elevation (ft.): 1082.9-ft EST.
 Date Started: 3/17/2020 County: Monongalia Inspector: NCH Lat. and Long.:
 Date Completed: 3/17/2020 District: D-4 Entered By: RMS Driller / Company: NGE

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS	Type	INT Depth	Run Rec	Blows Cnt (N-Value)	HCSI	RQD	Additional Notes	RMR (Total)
1047.70	35.2	Gray SILTSTONE: moderately to slightly weathered, medium hard	40	34.8-39.8	5.0 ft. 5.0 ft. 100 %			3.6 ft. 72 %		
1042.10	40.8	BORING COMPLETED AT 40.8 ft.		39.8-40.8	1.0 ft. 1.0 ft. 100 %			0.5 ft. 50 %		

Rig No. _____ Rig Type CME-45C Core Size _____ Core Barrel Solid Hammer Auto

Remarks _____

Sampling Method: Shelby Tube Solid Auger Hollow Auger Split Spoon Rock Core Tricone

Water Level Observations: Immediate NW ft. 6.0 At Completion After 24 Hrs. 10.4 ft. Before Coring NA ft. Backfilled _____ ft.

TRIAD TRIAD ENGINEERING, INC. **Log BORING W1-2** WVDOH

Project Name: Van Voorhis Road Section 1 Project Number: 04-19-0484
 Boring Location: Station: 100100 Offset: 21.5 ft. Lt. Elevation (ft.): 938.7-ft EST.
 Date Started: 3/19/2020 County: Monongalia Inspector: NCH Lat. and Long.:
 Date Completed: 3/19/2020 District: D-4 Entered By: RMS Driller / Company: NGE

ELEV. ft.	DEPTH ft.	DESCRIPTION OF MATERIALS	Type	INT Depth	Run Rec	Blows Cnt (N-Value)	HCSI	RQD	Additional Notes	RMR (Total)
938.70	0.0	Brown SURFACE SOIL:	5	0.0-1.5	1.5 ft. 1.0 ft. 67 %	2-3-3 (6)				
938.50	0.2	Brown SANDY CLAY: little sandstone gravel, soft to stiff, moist		2.5-4.0	1.5 ft. 0.8 ft. 53 %	2-1-3 (4)				
932.70	6.0	Brown SANDY CLAY: residual soil, stiff to very stiff, moist	5	5.0-6.5	1.5 ft. 1.2 ft. 80 %	4-6-10 (16)				
930.20	8.5	Gray SANDSTONE: fine-grained, moderately weathered, medium hard to hard	10	7.5-8.9	1.4 ft. 1.4 ft. 100 %	5-7-50/0.4		0.4 ft. 50 %		
				8.9-9.7	0.8 ft. 0.7 ft. 88 %			3.5 ft. 70 %		
				9.7-14.7	5.0 ft. 5.0 ft. 100 %					
923.90	14.8	- interbed of soft gray mudstone from 13.2 to 13.9 feet	15	14.7-19.7	5.0 ft. 5.0 ft. 100 %			0.8 ft. 16 %		
		Gray SHALE: silty to clayey, weathered, very soft	20	19.7-23.9	4.2 ft. 4.2 ft. 100 %			2.9 ft. 69 %		

Rig No. _____ Rig Type CME-45C Core Size _____ Core Barrel Solid Hammer Auto

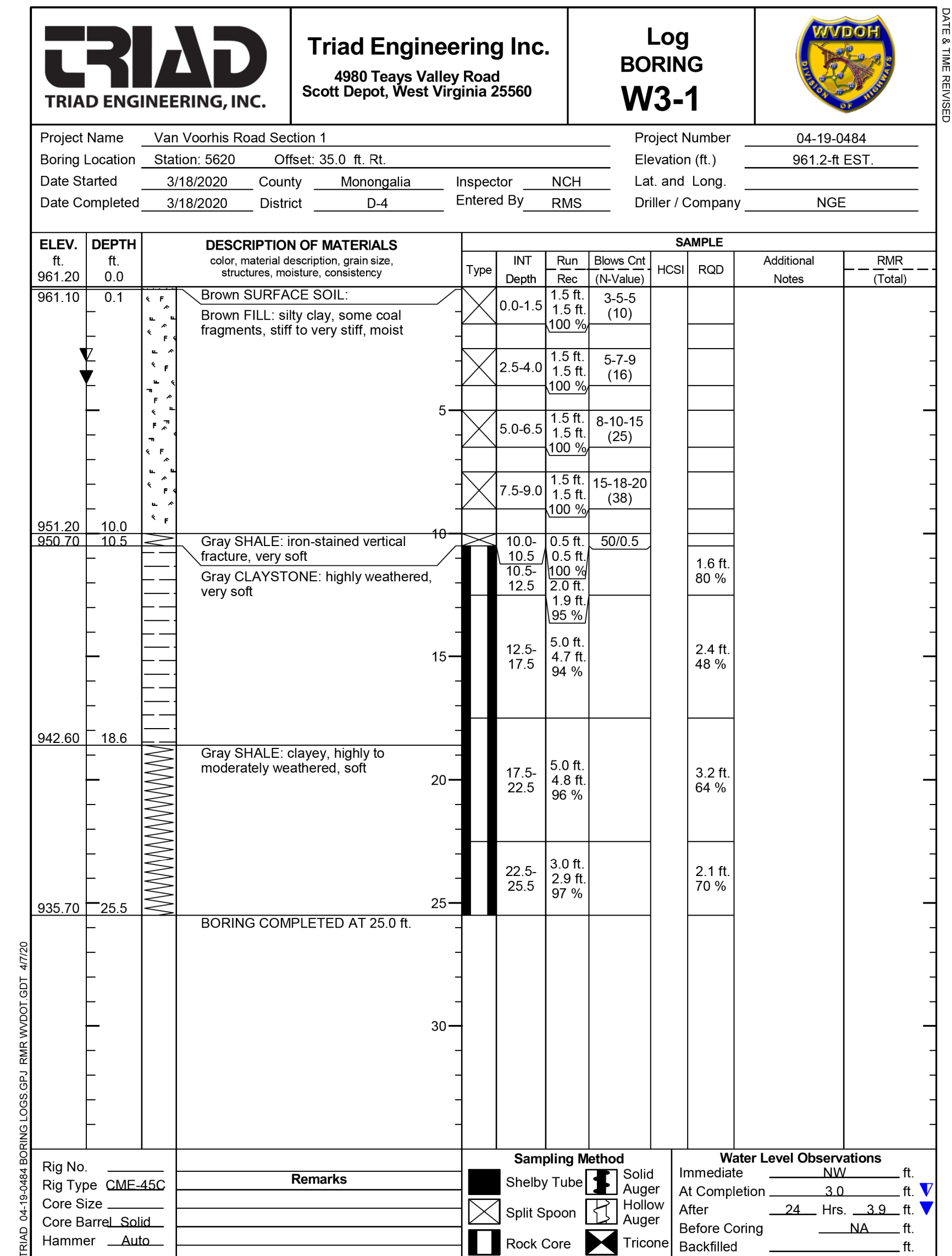
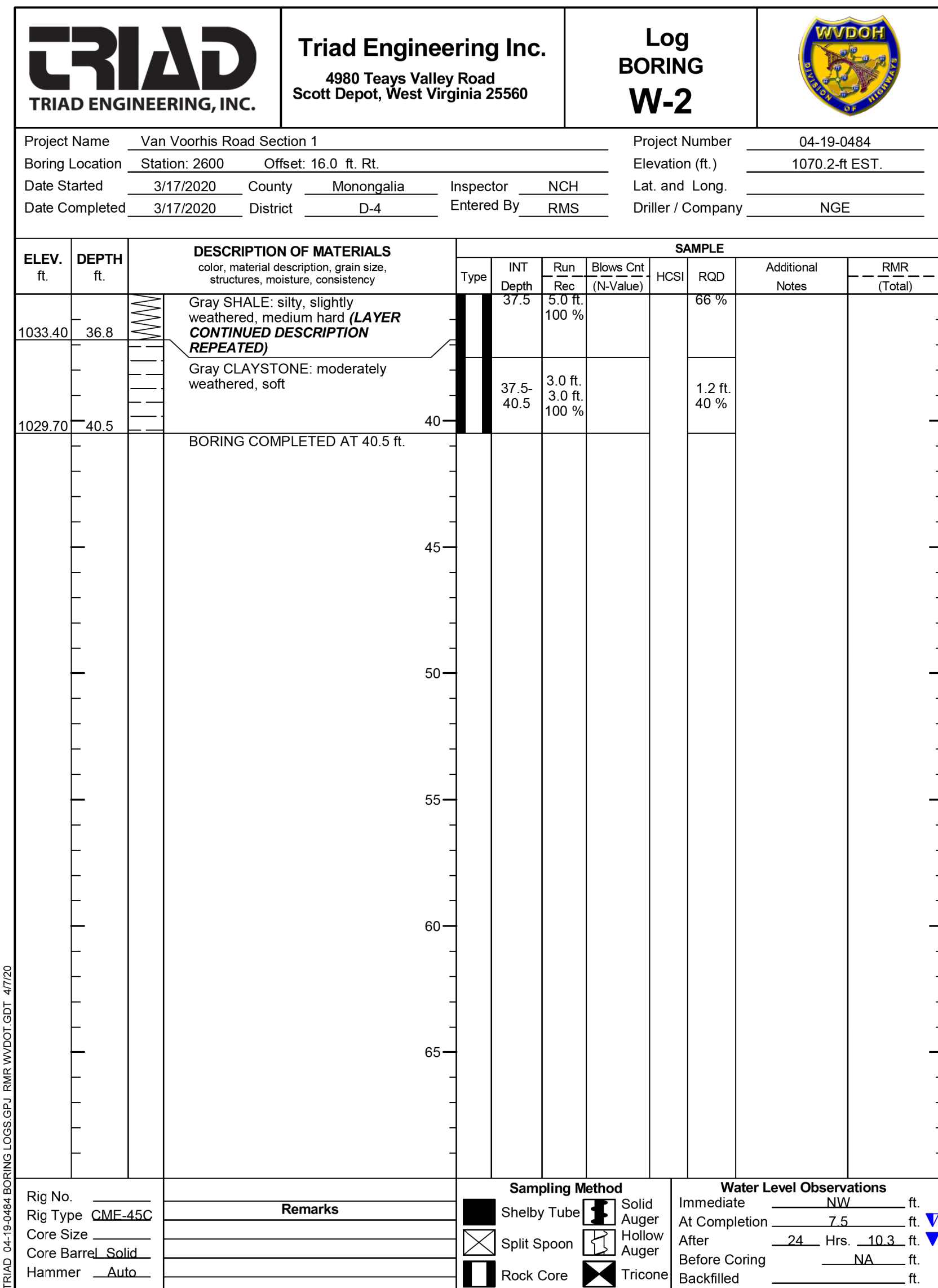
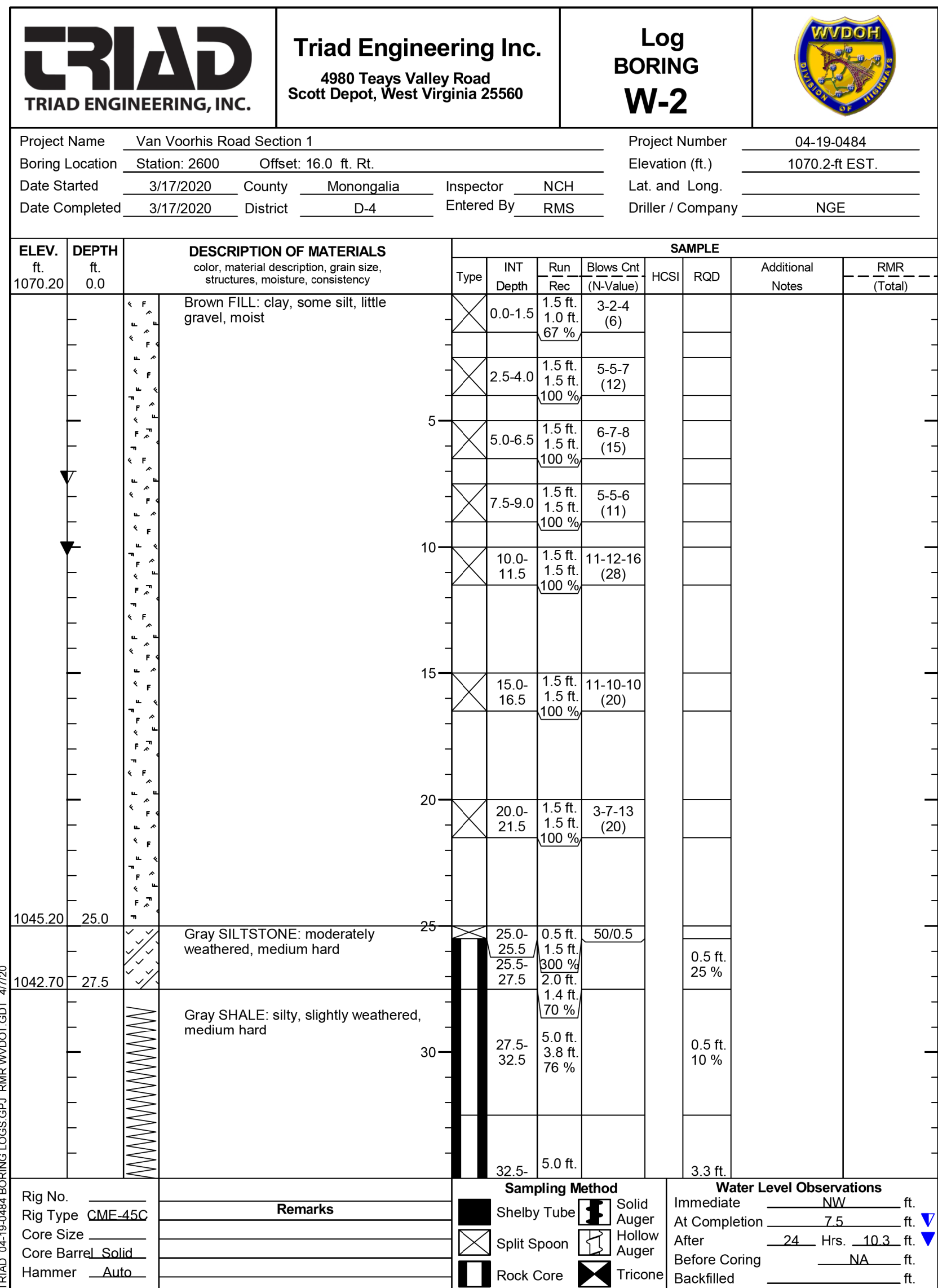
Remarks: Offset 8.5 feet north from stake

Sampling Method: Shelby Tube Solid Auger Hollow Auger Split Spoon Rock Core Tricone

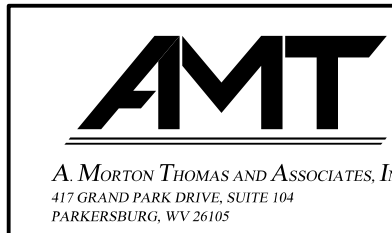
Water Level Observations: Immediate NW ft. 3.4 At Completion After 24 Hrs. 3.2 ft. Before Coring NA ft. Backfilled _____ ft.

SUBMITTED 6/29/2020

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	217	301

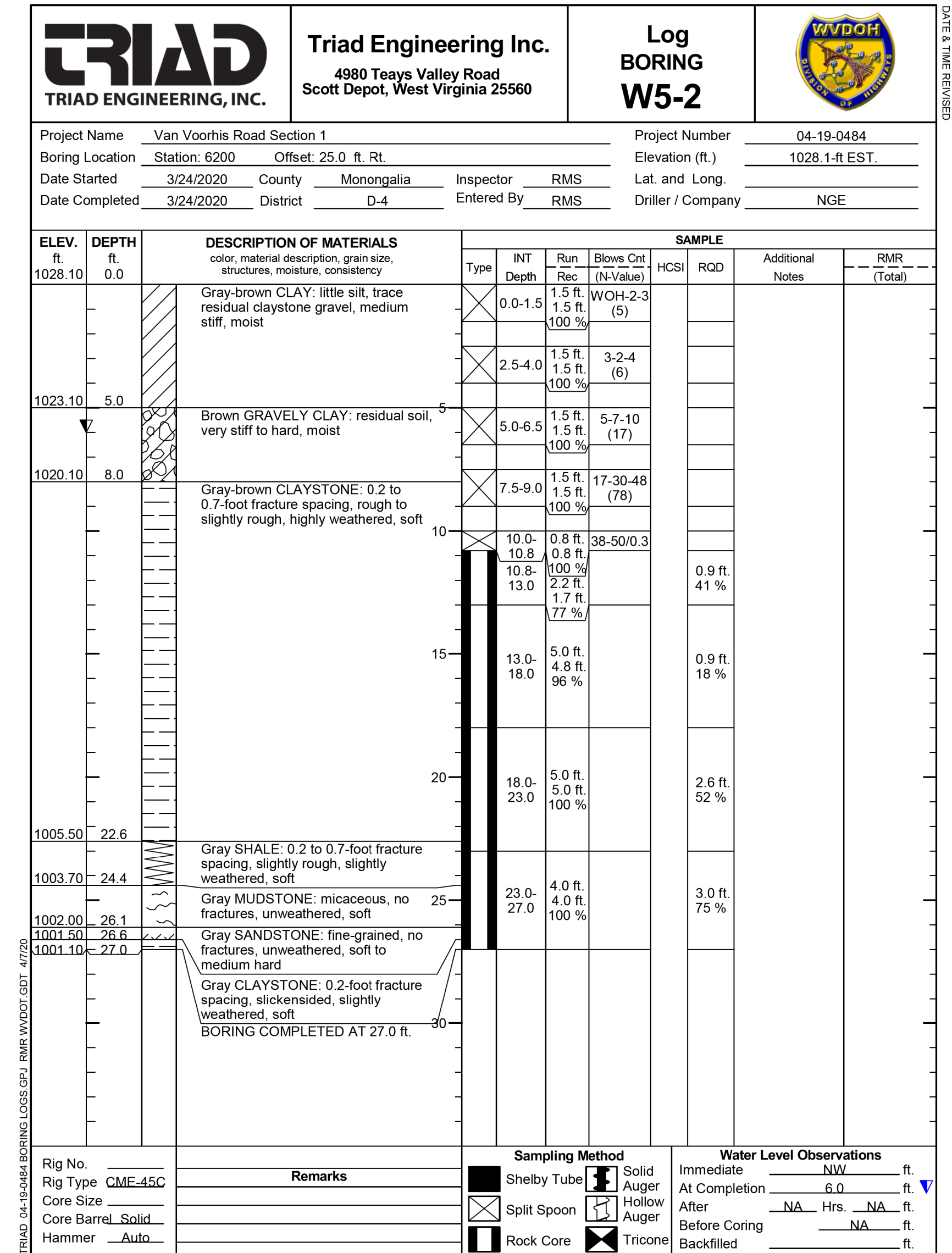
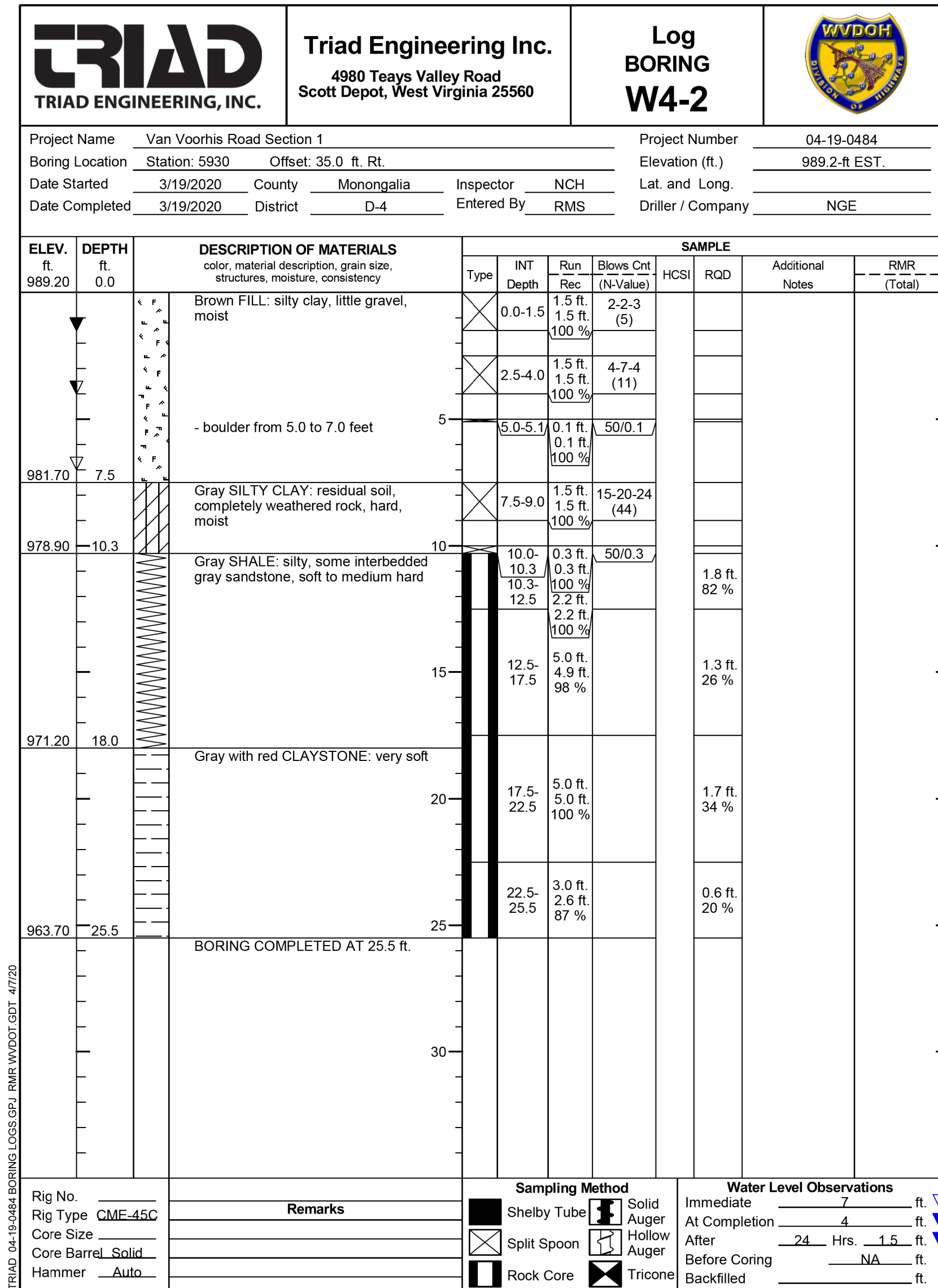
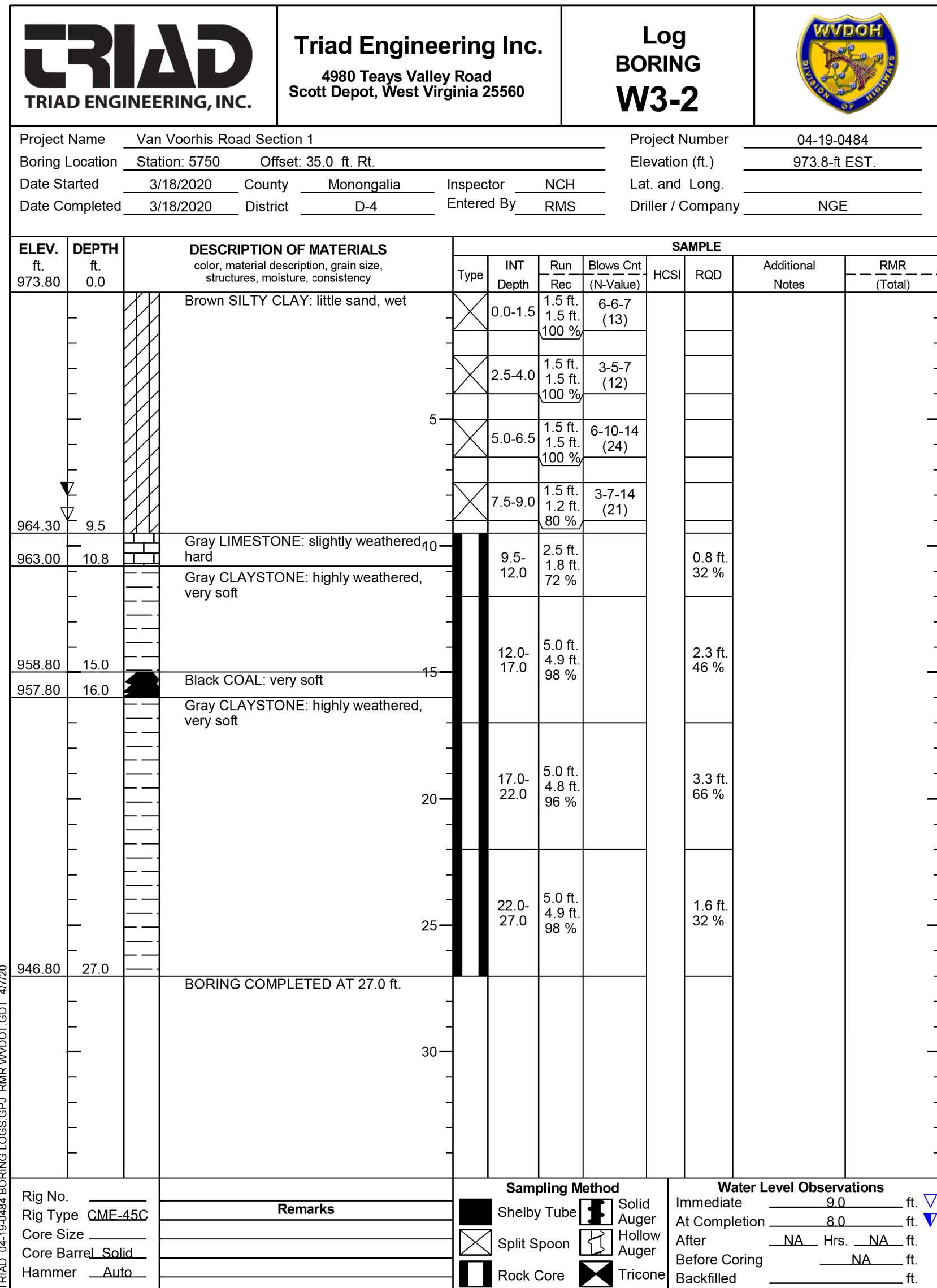


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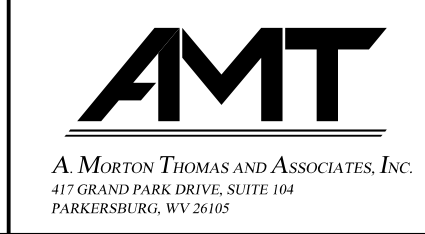


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

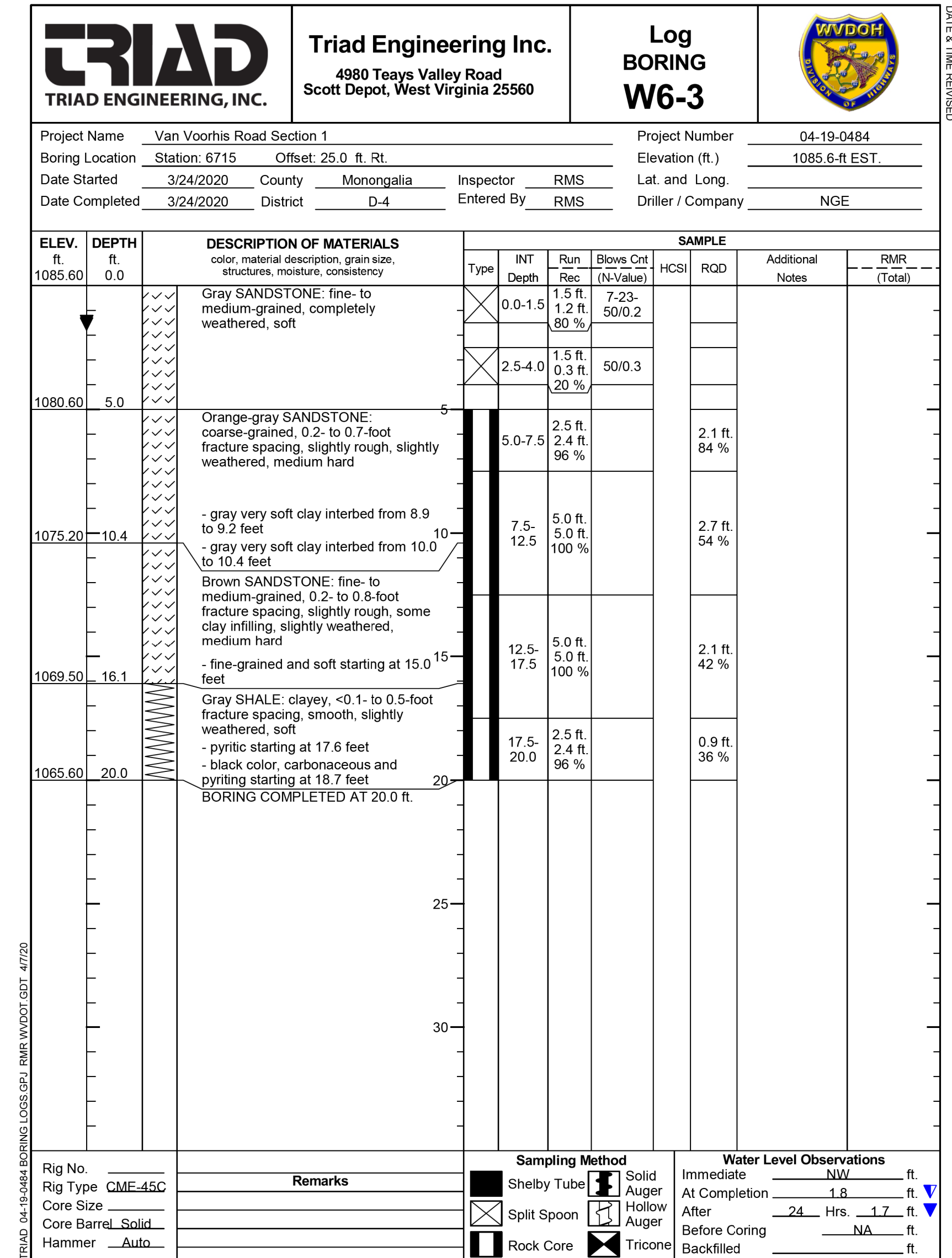
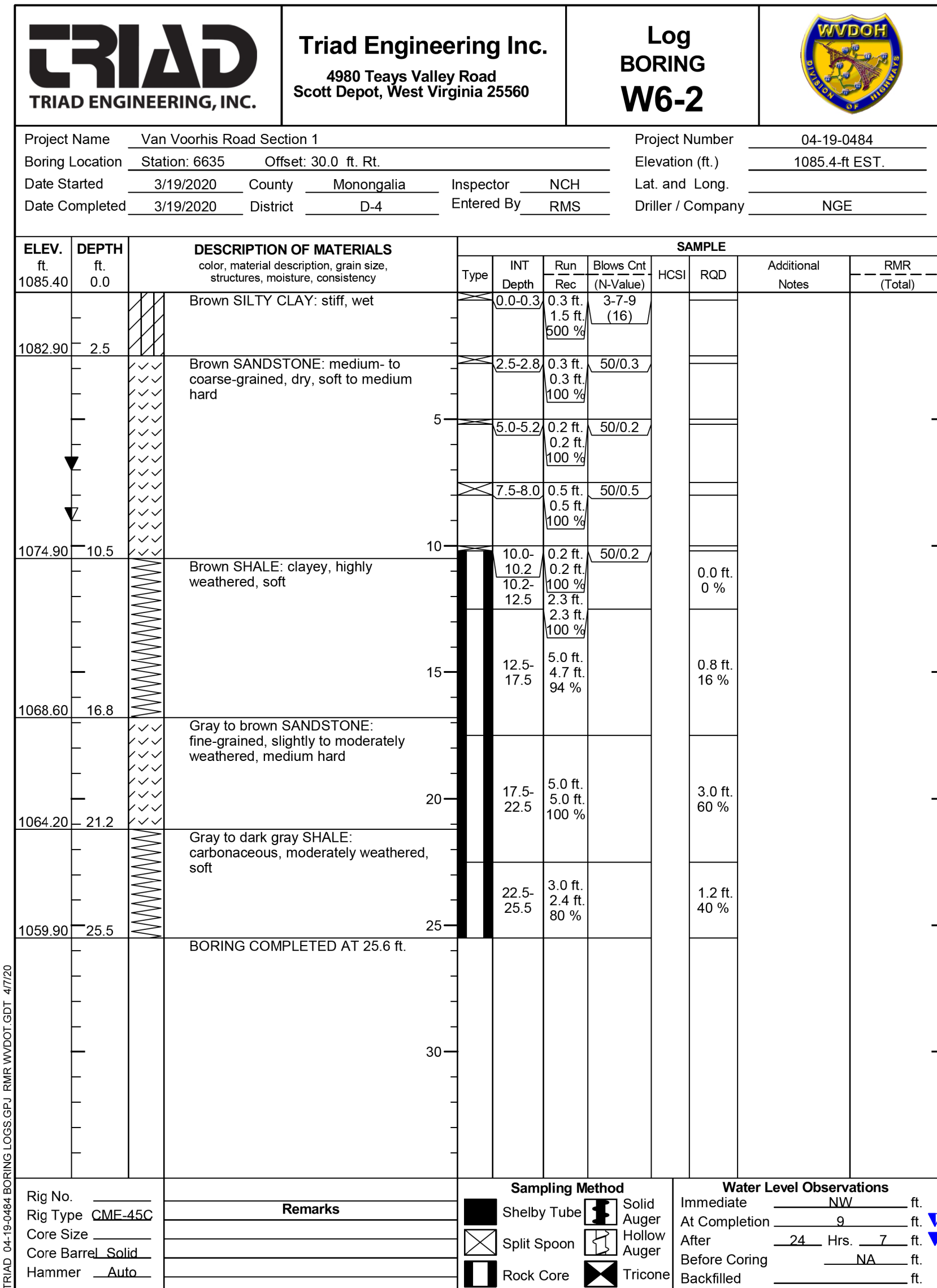
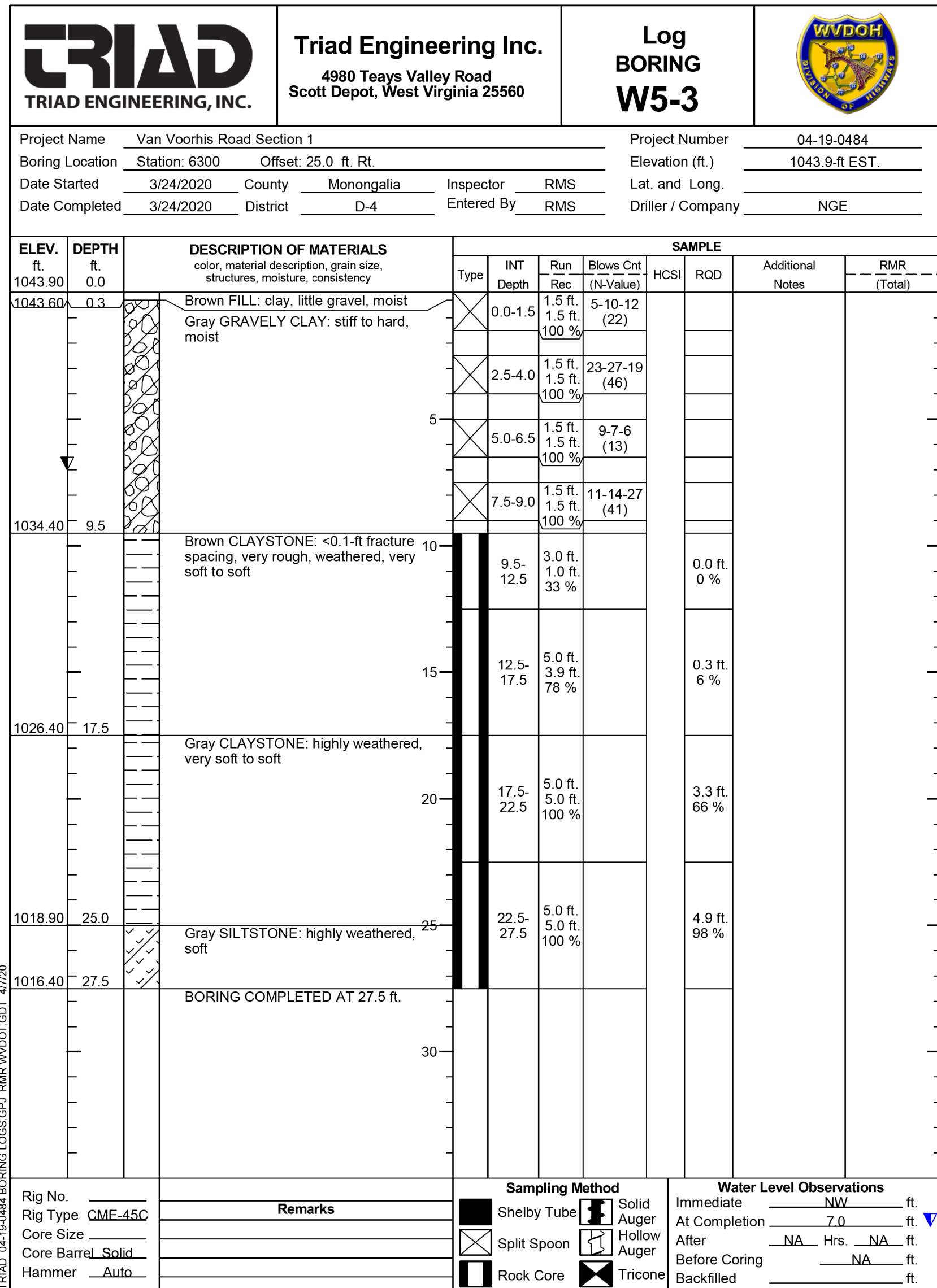
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SOIL AND GEOLOGIC INFORMATION PLANS



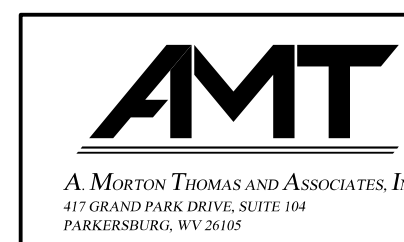
SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

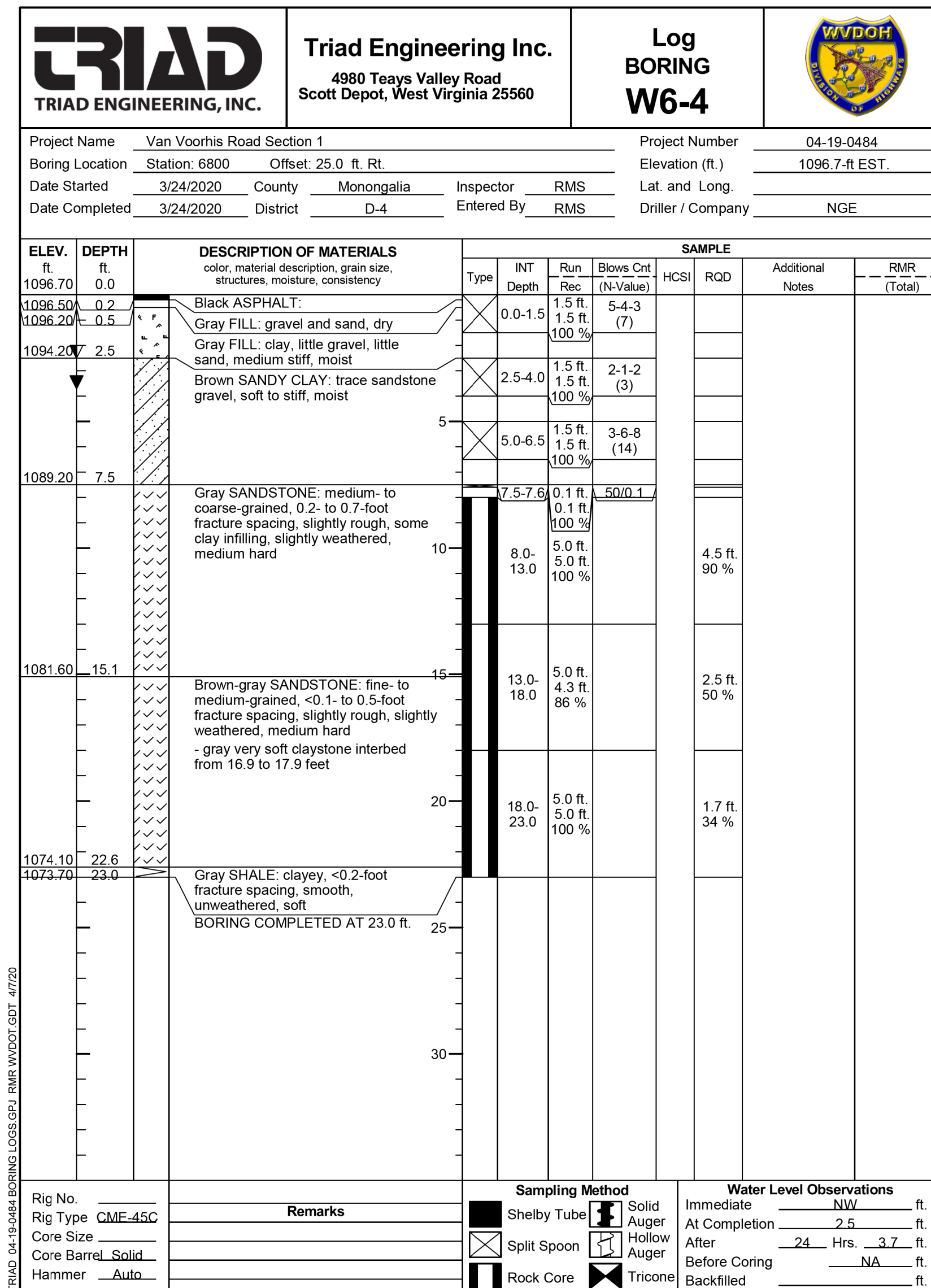


SUBMITTED 6/29/2020

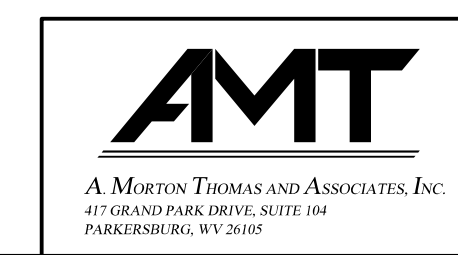


REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (0231D)	2020	MONONGALIA	220	301



SUBMITTED 6/29/2020



REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SOIL AND GEOLOGIC INFORMATION PLANS

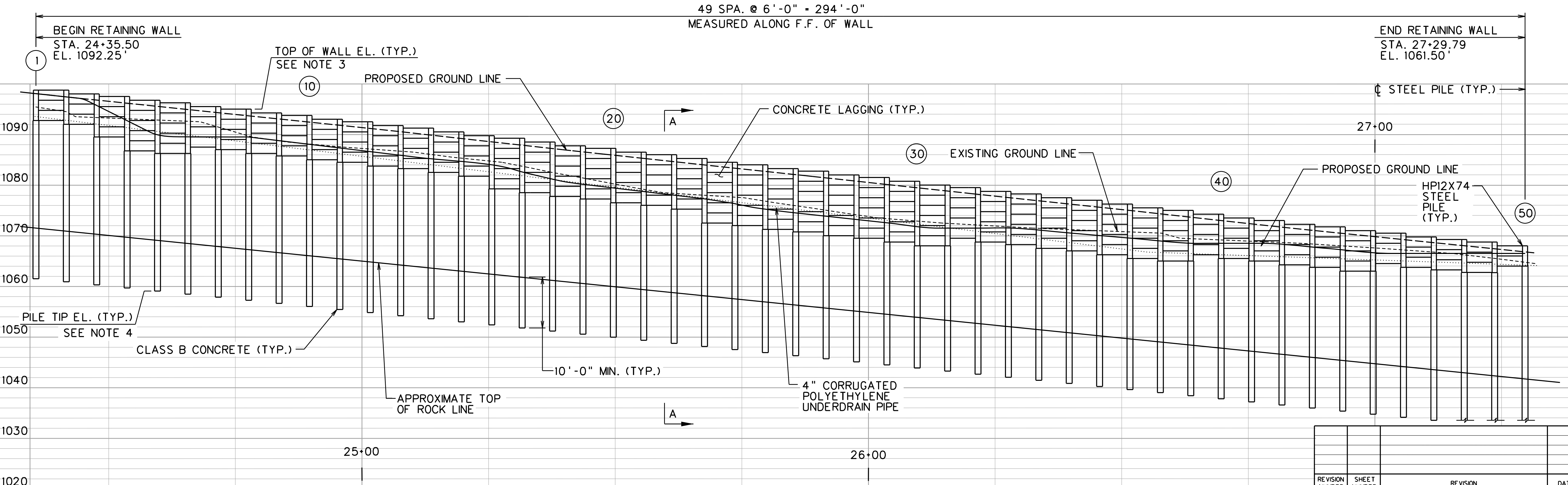
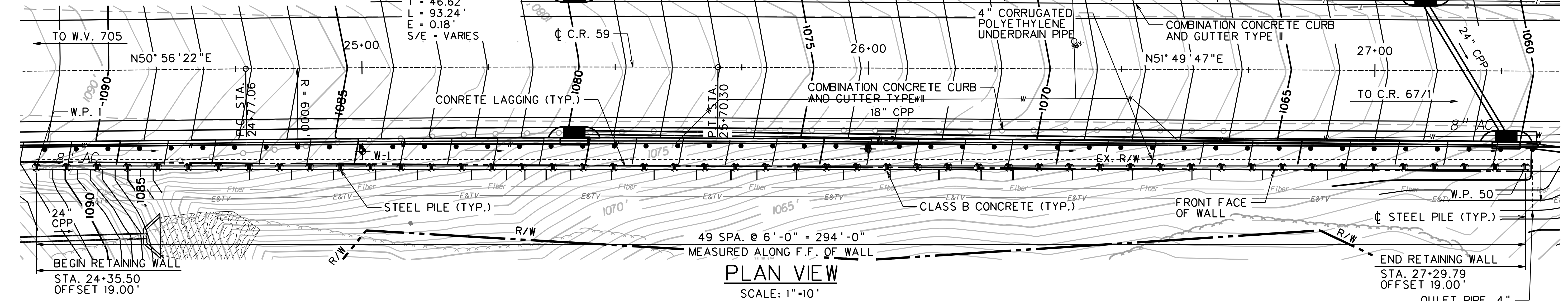
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (023)D	2020	MONONGALIA	221	301

BORING LOCATIONS TABLE

NO.	STATION	OFFSET	NORTHING	EASTING
W-1	25+00	16.5' RT.	424386.3894	1838477.6779
W-2	26+00	16' RT.	424448.7850	1838555.5796

HORIZONTAL GEOMETRY

C.R. 59
 P.I. STA. = 25+23.68
 $\Delta = 00^\circ 53' 25''$ LT
 $D_c = 00^\circ 57' 18''$
 $R = 6000.00'$
 $T = 46.62'$
 $L = 93.24'$
 $E = 0.18'$
 $S/E = \text{VARIES}$

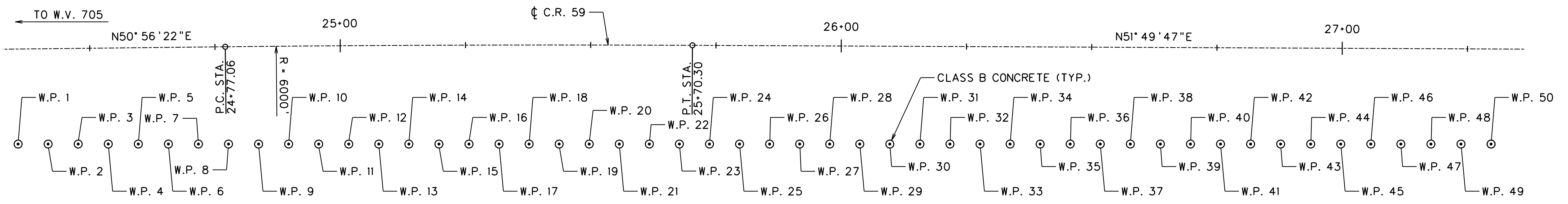
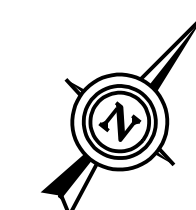


NOTES:
 1. FOR SECTION A-A, SEE SHEET X.

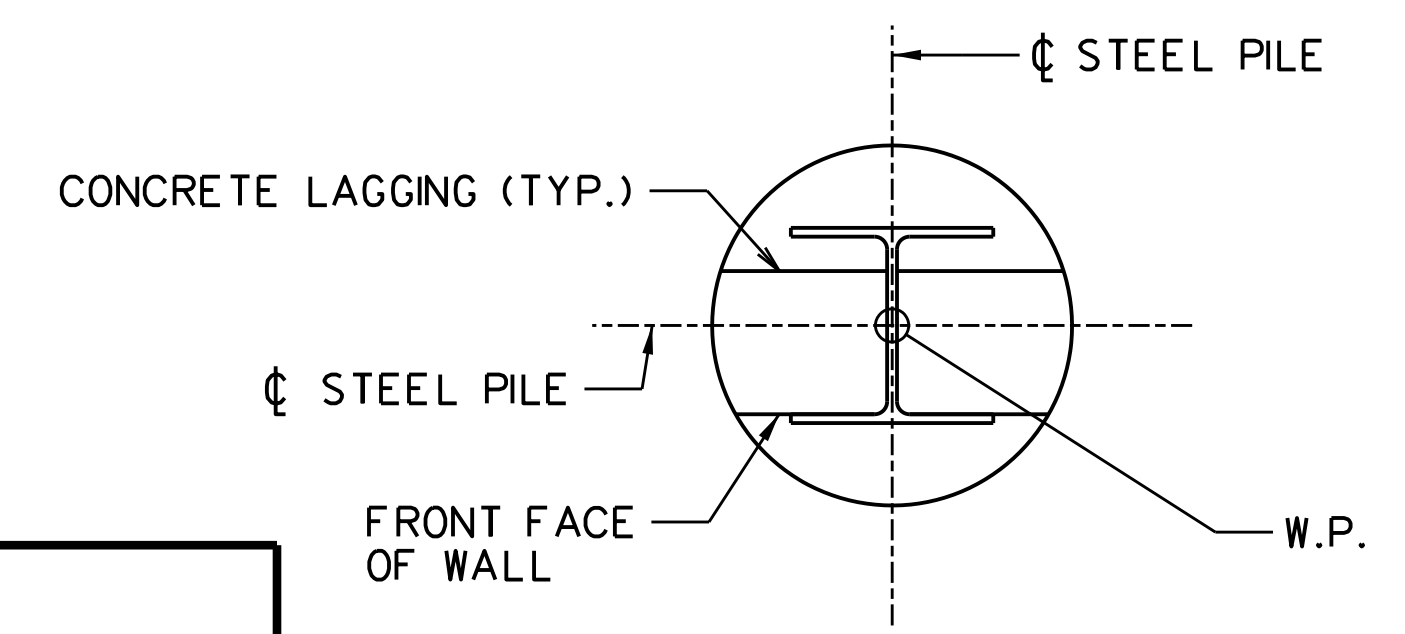
DESIGNED	DATE
JAL	JUN 2020
DRAWN	DATE
JAP	JUN 2020
CHECKED	DATE
KJH	JUN 2020
CHECKED	DATE
KAR	JUN 2020

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS VAN VOORHIS ROAD RETAINING WALL 1 SITUATION PLAN				
			A. MORTON THOMAS AND ASSOCIATES, INC. 417 GRAND PARK DRIVE, SUITE 102 PARKERSBURG, WV 26105	
SHEET 1 OF 4 BRIDGE NO.				

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (023)D	2020	MONONGALIA	222	301



FOUNDATION LAYOUT
SCALE: 1" = 10'-0"



WORK POINT DETAIL
N.T.S.

WORK POINTS				
NUMBER	NORTHING	EASTING	STATION	OFFSET
1	424343.87	1838429.18	24+35.50	19.00' RT.
2	424347.60	1838433.88	24+41.50	19.06' RT.
3	424351.33	1838438.58	24+47.50	19.13' RT.
4	424355.06	1838443.28	24+53.50	19.19' RT.
5	424358.79	1838447.98	24+59.50	19.26' RT.
6	424362.52	1838452.68	24+65.50	19.33' RT.
7	424366.25	1838457.38	24+71.50	19.39' RT.
8	424369.98	1838462.08	24+77.50	19.46' RT.
9	424373.71	1838466.78	24+83.52	19.52' RT.
10	424377.44	1838471.48	24+89.54	19.58' RT.
11	424381.17	1838476.18	24+95.56	19.63' RT.
12	424384.90	1838480.88	25+01.58	19.67' RT.
13	424388.63	1838485.58	25+07.60	19.71' RT.
14	424392.36	1838490.28	25+13.62	19.74' RT.
15	424396.09	1838494.98	25+19.64	19.77' RT.
16	424399.82	1838499.68	25+25.65	19.79' RT.
17	424403.55	1838504.38	25+31.67	19.80' RT.
18	424407.28	1838509.08	25+37.69	19.81' RT.
19	424411.01	1838513.78	25+43.71	19.81' RT.
20	424414.74	1838518.48	25+49.73	19.81' RT.
21	424418.47	1838523.18	25+55.75	19.79' RT.
22	424422.20	1838527.88	25+61.77	19.78' RT.
23	424425.93	1838532.58	25+67.79	19.76' RT.
24	424429.66	1838537.28	25+73.79	19.73' RT.
25	424433.39	1838541.98	25+79.79	19.70' RT.

WORK POINTS				
NUMBER	NORTHING	EASTING	STATION	OFFSET
26	424437.12	1838546.68	25+85.79	19.67' RT.
27	424440.85	1838551.38	25+91.79	19.64' RT.
28	424444.58	1838556.08	25+97.79	19.61' RT.
29	424448.31	1838560.78	26+03.79	19.58' RT.
30	424452.04	1838565.48	26+09.79	19.56' RT.
31	424455.77	1838570.18	26+15.79	19.53' RT.
32	424459.50	1838574.88	26+21.79	19.50' RT.
33	424463.23	1838579.58	26+27.79	19.47' RT.
34	424466.96	1838584.28	26+33.79	19.44' RT.
35	424470.69	1838588.98	26+39.79	19.42' RT.
36	424474.41	1838593.68	26+45.79	19.39' RT.
37	424478.14	1838598.38	26+51.79	19.36' RT.
38	424481.87	1838603.08	26+57.79	19.33' RT.
39	424485.60	1838607.78	26+63.79	19.30' RT.
40	424489.33	1838612.48	26+69.79	19.28' RT.
41	424493.06	1838617.18	26+75.79	19.25' RT.
42	424496.79	1838621.88	26+81.79	19.22' RT.
43	424500.52	1838626.58	26+87.79	19.19' RT.
44	424504.25	1838631.28	26+93.79	19.17' RT.
45	424507.98	1838635.98	26+99.79	19.14' RT.
46	424511.71	1838640.68	27+05.79	19.11' RT.
47	424515.44	1838645.38	27+11.79	19.08' RT.
48	424519.17	1838650.08	27+17.79	19.05' RT.
49	424522.90	1838654.78	27+23.79	19.03' RT.
50	424526.63	1838659.48	27+29.79	19.00' RT.

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

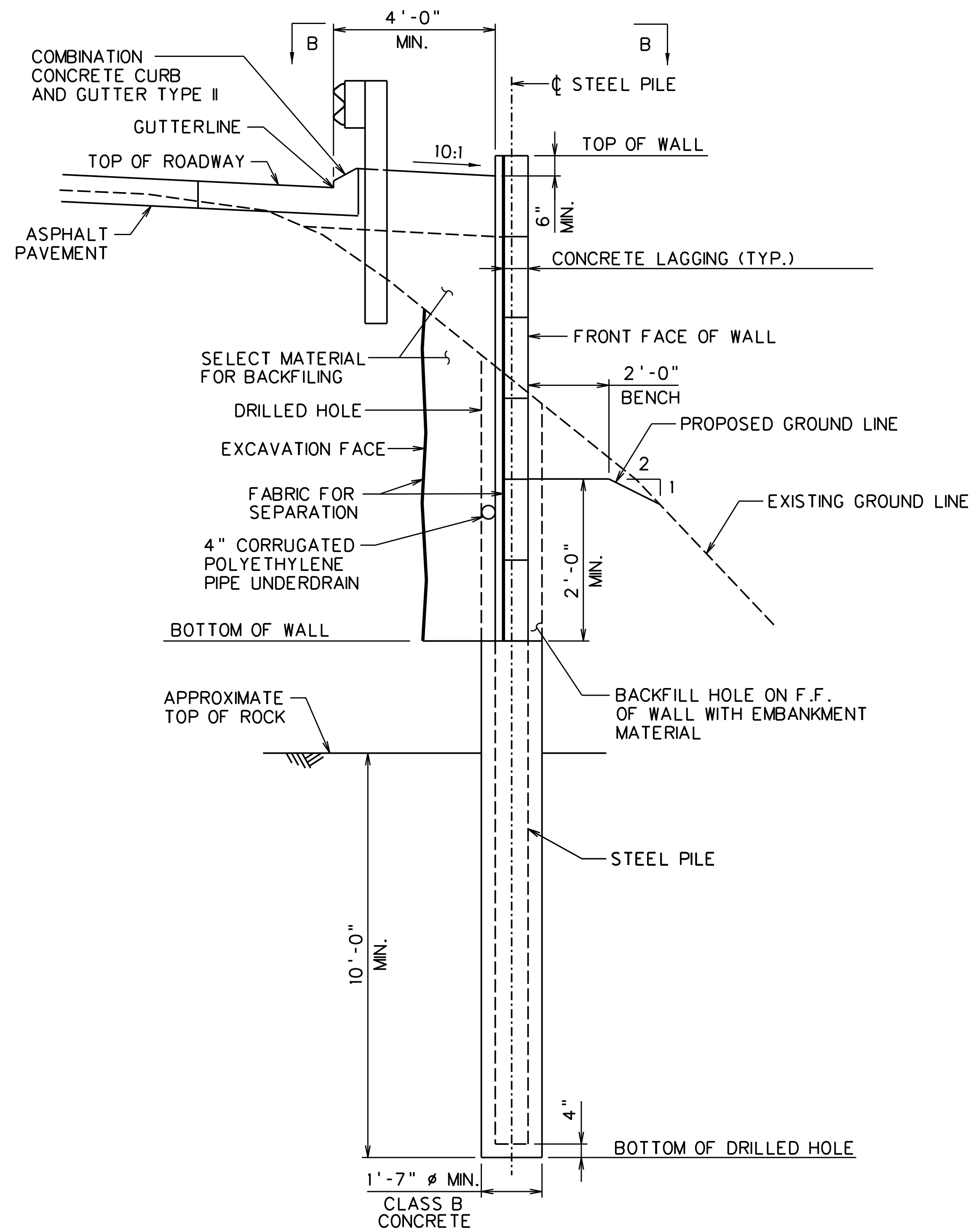
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**VAN VOORHIS ROAD
RETAINING WALL 1
FOUNDATION LAYOUT**

DESIGNED	DATE
JAL	JUN 2020
DRAWN	DATE
JAP	JUN 2020
CHECKED	DATE
KJH	JUN 2020
CHECKED	DATE
KAR	JUN 2020

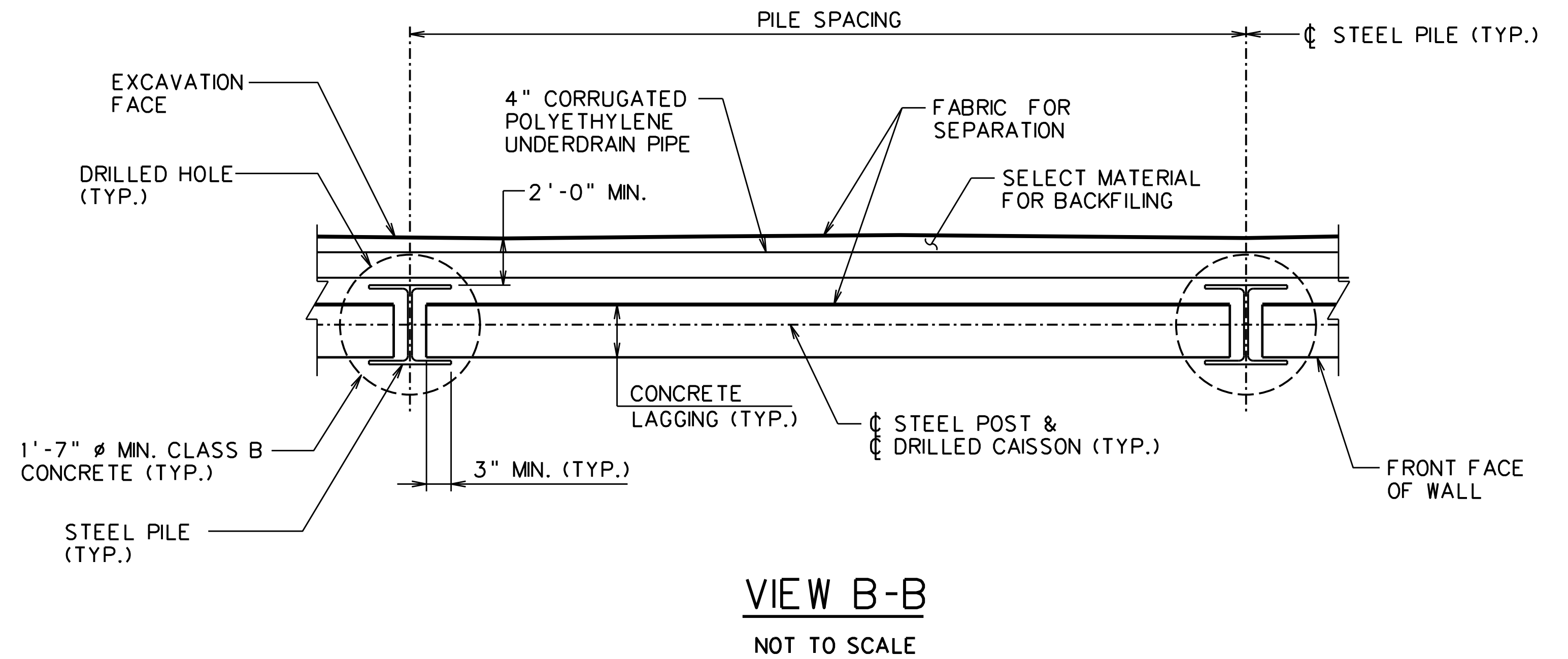
AMT A. MORTON THOMAS AND ASSOCIATES, INC.
417 GRAND PARK DRIVE, SUITE 102
PARKERSBURG, WV 26105

SHEET
2 OF **4**
BRIDGE NO.

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (023)D	2020	MONONGALIA	223	301



SECTION A-A
SCALE: 1/2" = 1'-0"



VIEW B-B
NOT TO SCALE

NOTES:
FOR PILE AND PANEL ELEVATION, SEE SHEET X.

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**VAN VOORHIS ROAD
RETAINING WALL 1
TYPICAL SECTION
& DETAILS**

DESIGNED	DATE
JAL	JUN 2020
DRAWN	DATE
JAP	JUN 2020
CHECKED	DATE
KJM	JUN 2020
CHECKED	DATE
KAR	JUN 2020

AMT A. MORTON THOMAS AND ASSOCIATES, INC.
417 GRAND PARK DRIVE, SUITE 102
PARKERSBURG, WV 26105

SHEET
3 OF **4**
BRIDGE NO.

PILE TABLE

PILE NO.	TOP OF PILE EL.	APPROX. TOP OF ROCK EL.	BOTTOM OF PILE EL.	BOTTOM OF DRILLED HOLE EL.
1	1092.00	1065.00	1055.33	1055.00
2	1092.00	1064.39	1054.72	1054.39
3	1091.50	1063.78	1054.11	1053.78
4	1091.00	1063.16	1053.50	1053.16
5	1090.25	1062.55	1052.88	1052.55
6	1089.75	1061.94	1052.27	1051.94
7	1089.00	1061.33	1051.66	1051.33
8	1088.50	1060.71	1051.05	1050.71
9	1087.75	1060.10	1050.44	1050.10
10	1087.25	1059.49	1049.82	1049.49
11	1086.50	1058.88	1049.21	1048.88
12	1086.00	1058.27	1048.60	1048.27
13	1085.25	1057.65	1047.99	1047.65
14	1084.75	1057.04	1047.37	1047.04
15	1084.00	1056.43	1046.76	1046.43
16	1083.25	1055.82	1046.15	1045.82
17	1082.75	1055.20	1045.54	1045.20
18	1082.00	1054.59	1044.93	1044.59
19	1081.25	1053.98	1044.31	1043.98
20	1080.75	1053.37	1043.70	1043.37
21	1080.00	1052.76	1043.09	1042.76
22	1079.50	1052.14	1042.48	1042.14
23	1078.75	1051.53	1041.86	1041.53
24	1078.00	1050.92	1041.25	1040.92
25	1077.50	1050.31	1040.64	1040.31
26	1076.75	1049.69	1040.03	1039.69
27	1076.25	1049.08	1039.41	1039.08
28	1075.50	1048.47	1038.80	1038.47
29	1075.00	1047.86	1038.19	1037.86
30	1074.25	1047.24	1037.58	1037.24
31	1073.50	1046.63	1036.97	1036.63
32	1073.00	1046.02	1036.35	1036.02
33	1072.25	1045.41	1035.74	1035.41
34	1071.75	1044.80	1035.13	1034.80
35	1071.00	1044.18	1034.52	1034.18
36	1070.50	1043.57	1033.90	1033.57
37	1069.75	1042.96	1033.29	1032.96
38	1069.00	1042.35	1032.68	1032.35
39	1068.50	1041.73	1032.07	1031.73
40	1067.75	1041.12	1031.46	1031.12
41	1067.00	1040.51	1030.84	1030.51
42	1066.50	1039.90	1030.23	1029.90
43	1065.75	1039.29	1029.62	1029.29
44	1065.25	1038.67	1029.01	1028.67
45	1064.50	1038.06	1028.39	1028.06
46	1064.00	1037.45	1027.78	1027.45
47	1063.25	1036.84	1027.17	1026.84
48	1062.75	1036.22	1026.56	1026.22
49	1062.25	1035.61	1025.95	1025.61
50	1061.25	1035.00	1025.33	1025.00

PANEL TABLE

BAY NO.	TOP OF WALL EL.	BOTTOM OF WALL EL.	NO. OF PANELS
1	1092.00	1086.00	3.00
2	1091.50	1085.50	3.00
3	1091.00	1083.00	4.00
4	1090.25	1080.25	5.00
5	1089.75	1079.75	5.00
6	1089.00	1081.00	4.00
7	1088.50	1080.50	4.00
8	1087.75	1079.75	4.00
9	1087.25	1079.25	4.00
10	1086.50	1078.50	4.00
11	1086.00	1078.00	4.00
12	1085.25	1077.25	4.00
13	1084.75	1076.75	4.00
14	1084.00	1076.00	4.00
15	1083.25	1075.25	4.00
16	1082.75	1072.75	5.00
17	1082.00	1072.00	5.00
18	1081.25	1071.25	5.00
19	1080.75	1070.75	5.00
20	1080.00	1070.00	5.00
21	1079.50	1069.50	5.00
22	1078.75	1068.75	5.00
23	1078.00	1066.00	6.00
24	1077.50	1065.50	6.00
25	1076.75	1064.75	6.00
26	1076.25	1064.25	6.00
27	1075.50	1063.50	6.00
28	1075.00	1063.00	6.00
29	1074.25	1062.25	6.00
30	1073.50	1061.50	6.00
31	1073.00	1063.00	5.00
32	1072.25	1062.25	5.00
33	1071.75	1061.75	5.00
34	1071.00	1061.00	5.00
35	1070.50	1060.50	5.00
36	1069.75	1059.75	5.00
37	1069.00	1059.00	5.00
38	1068.50	1058.50	5.00
39	1067.75	1059.75	4.00
40	1067.00	1059.00	4.00
41	1066.50	1058.50	4.00
42	1065.75	1057.75	4.00
43	1065.25	1057.25	4.00
44	1064.50	1056.50	4.00
45	1064.00	1058.00	3.00
46	1063.25	1057.25	3.00
47	1062.75	1056.75	3.00
48	1062.25	1056.25	3.00
49	1061.25	1057.25	2.00

NOTES:
FOR LOCATIONS OF ELEVATION, SEE SHEET X.

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**VAN VOORHIS ROAD
RETAINING WALL 1
WALL
ELEVATIONS**

DESIGNED	DATE
JAL	JUN 2020
DRAWN	DATE
JAP	JUN 2020
CHECKED	DATE
KJH	JUN 2020
CHECKED	DATE
KAR	JUN 2020

AMT
A. MORTON THOMAS AND ASSOCIATES, INC.
417 GRAND PARK DRIVE, SUITE 102
PARKERSBURG, WV 26105

SHEET
4 OF **4**
BRIDGE NO.

NO.	STATION	OFFSET	NORTHING	EASTING
S-1	41+45	17' LT.	425523.4717	1839484.8279
S-2	41+45	23.5' RT.	425544.6497	1839519.3495
S-3	42+10	17' LT.	425578.8768	1839450.8385
S-4	41+99	21' RT.	425589.3712	1839488.9812

CURVE 2 @ C.R. 59

P.C. STA. = 37+32.00
P.I. STA. = 39+82.18
Δ = 83° 21' 27" LT
D = 20° 23' 24"
R = 281.00'
T = 250.18'
L = 408.82'
E = 95.23'
S/E = VARIES
P.T. STA. 41+40.82

C.R. 59 TRAFFIC DATA

A.D.T (2020) = 11,100
A.D.T (2040) = 14,400
D.H.V. (K) = 9%
D (DIRECTIONAL) = 55/45
T (TRUCKS %) = 2%
V (MAINLINE) = 30 MPH

WEST RUN HYDRAULIC DATA

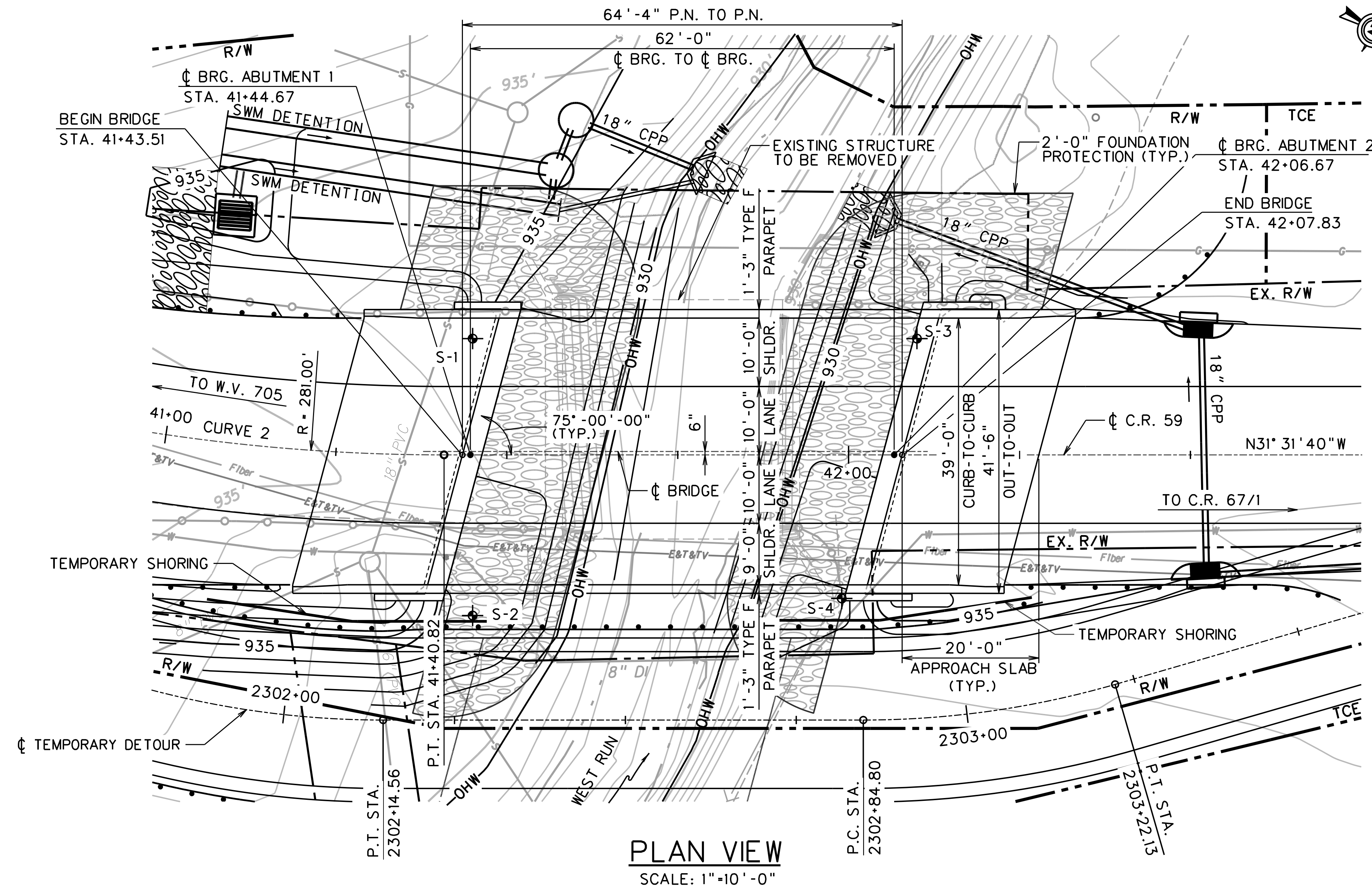
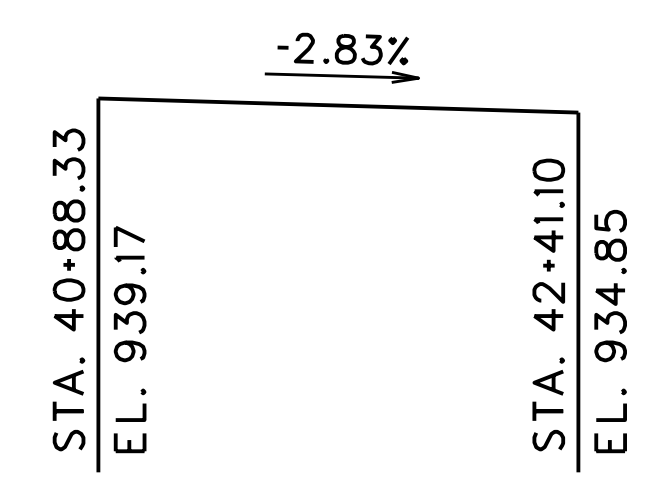
DRAINAGE AREA : 6.92 SQ. MILES
EXISTING HYDRAULIC OPENING : 136.28 S.F.
PROPOSED HYDRAULIC OPENING : 231.40 S.F.

DESIGN FLOOD : FREQUENCY = 10 YEARS
MAGNITUDE = 1,187 CFS
VELOCITY = 4.42 FPS
WATER EL. = 934.13

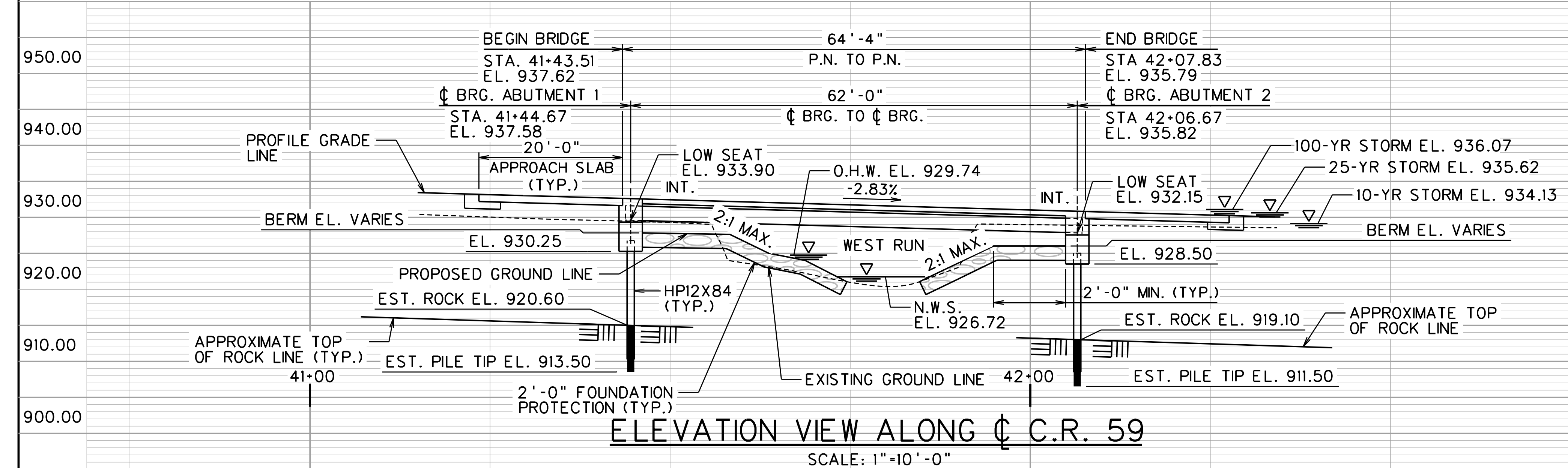
DESIGN FLOOD : FREQUENCY = 25 YEARS
MAGNITUDE = 1,739 CFS
VELOCITY = 4.27 FPS
WATER EL. = 935.62

DESIGN FLOOD : FREQUENCY = 100 YEARS
MAGNITUDE = 2781 CFS
VELOCITY = 5.99 FPS
WATER EL. = 936.07

VERTICAL GEOMETRY @ C.R. 59



PLAN VIEW
SCALE: 1"=10'-0"



ELEVATION VIEW ALONG @ C.R. 59
SCALE: 1"=10'-0"

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY
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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

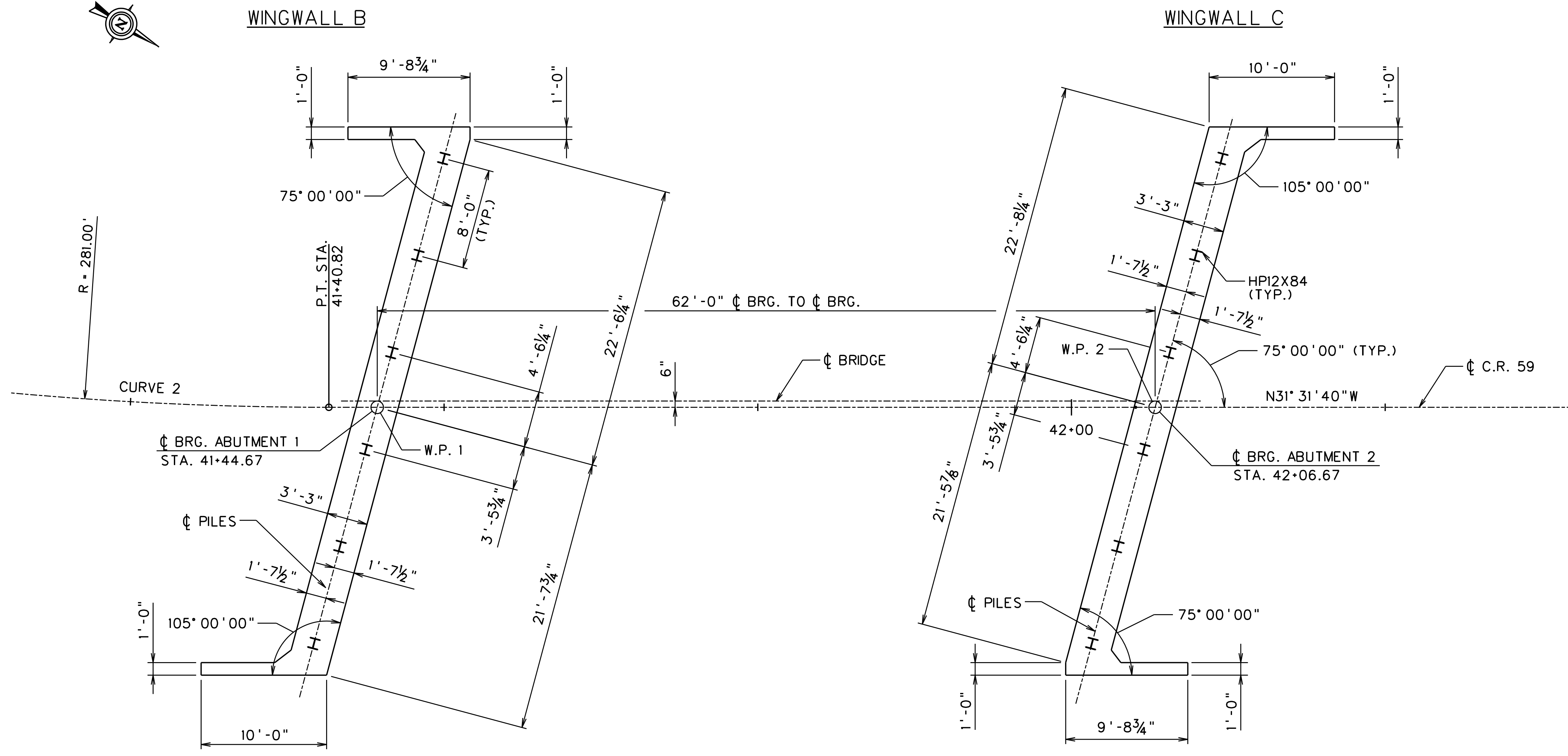
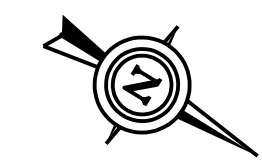
VAN VOORHIS ROAD BRIDGE

SITUATION PLAN

DESIGNED GCD	DATE JUN 2020
DRAWN JAP	DATE JUN 2020
CHECKED KAR	DATE JUN 2020
CHECKED KAR	DATE JUN 2020

AMT A. MORTON THOMAS AND ASSOCIATES, INC.
417 GRAND PARK DRIVE, SUITE 102
PARKERSBURG, WV 26105

SHEET
1 of 16
BRIDGE NO.
11618



FOUNDATION LAYOUT
SCALE = 1"=5'-0"

WINGWALL A

WINGWALL B

WINGWALL C

WINGWALL D

NOTES:


- FOUR PLACE COORDINATES ARE FOR COMPUTATIONAL PURPOSES ONLY AND DO NOT IMPLY A PRECISION BEYOND TWO DECIMAL PLACES.

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

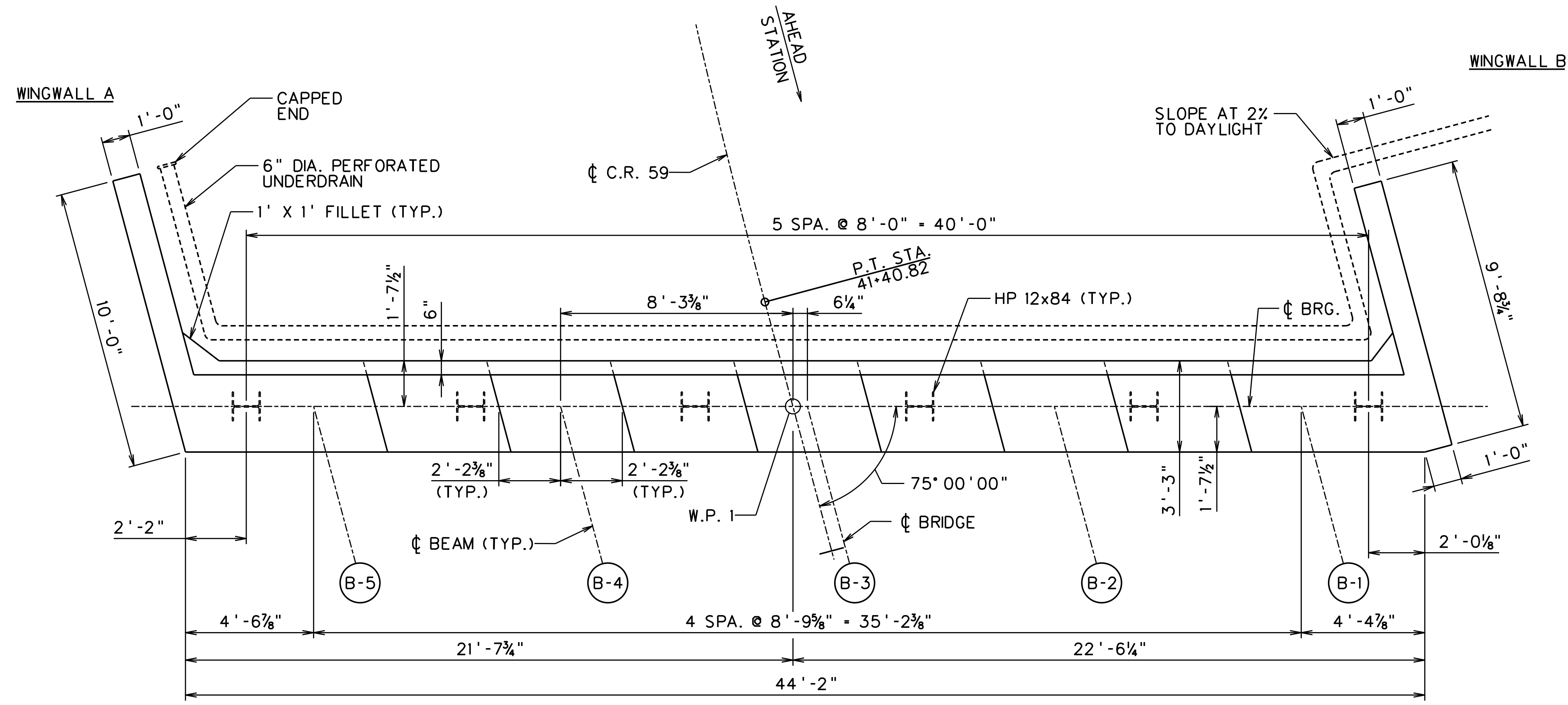
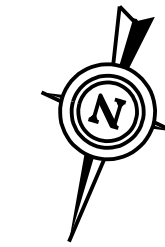
WORKPOINT COORDINATES				
WORKPOINT	STATION	OFFSET	NORTHING	EASTING
W. P. 1	41+44.67	0.00'	425532.0788	1839499.4917
W. P. 2	42+06.67	0.00'	425584.9267	1839467.0710

DESIGNED	DATE
GCD	JUN 2020
DRAWN	DATE
JAP	JUN 2020
CHECKED	DATE
KAR	JUN 2020
CHECKED	DATE
KAR	JUN 2020

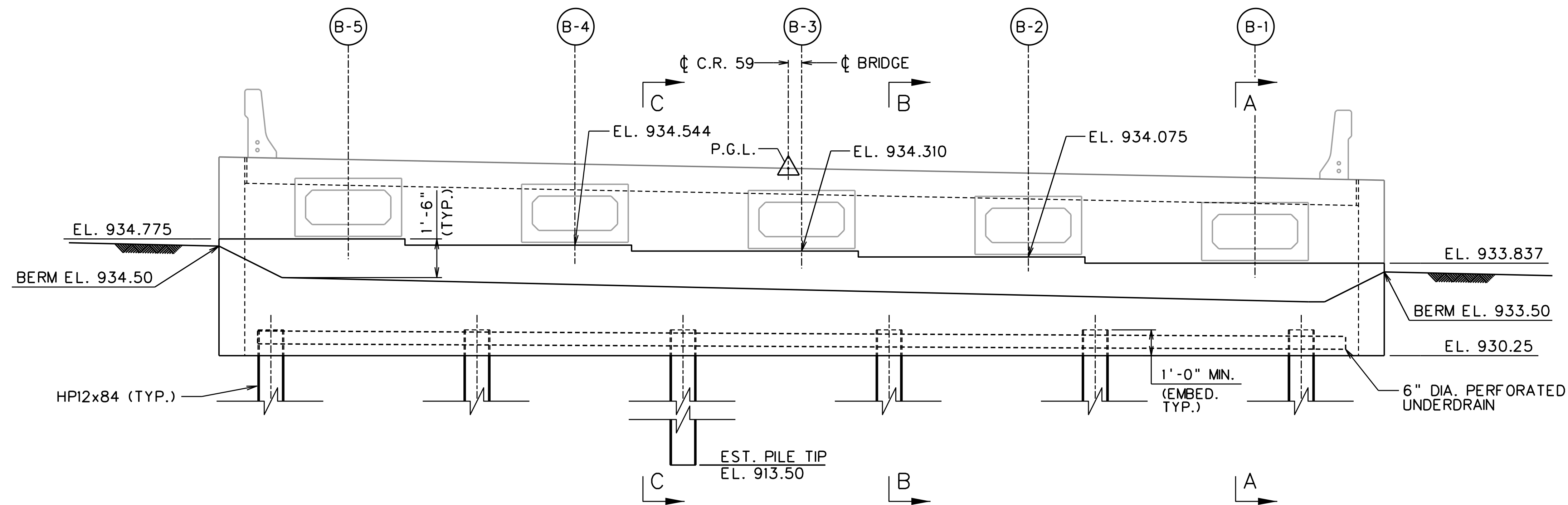
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
VAN VOORHIS ROAD BRIDGE
FOUNDATION LAYOUT

 A. MORTON THOMAS AND ASSOCIATES, INC. 417 GRAND PARK DRIVE, SUITE 102 PARKERSBURG, WV 26105	SHEET 2 of 16
	BRIDGE NO. 11618

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (023)D	2020	MONONGALIA	227	301



ABUTMENT 1 PLAN
SCALE = 3/8" = 1'-0"



ABUTMENT 1 ELEVATION
SCALE = 3/8" = 1'-0"
LOOKING BACK STATION

NOTES:

1. MAXIMUM FACTORED AXIAL PILE LOAD = 200 KIPS.
2. FACTORED AXIAL PILE RESISTANCE = 406 KIPS.
3. FOR SECTIONS A-A, B-B, & C-C SEE SHEET X.
4. FOR INTEGRAL BACKWALL REINFORCEMENT AND DETAILS, SEE SHEET X.

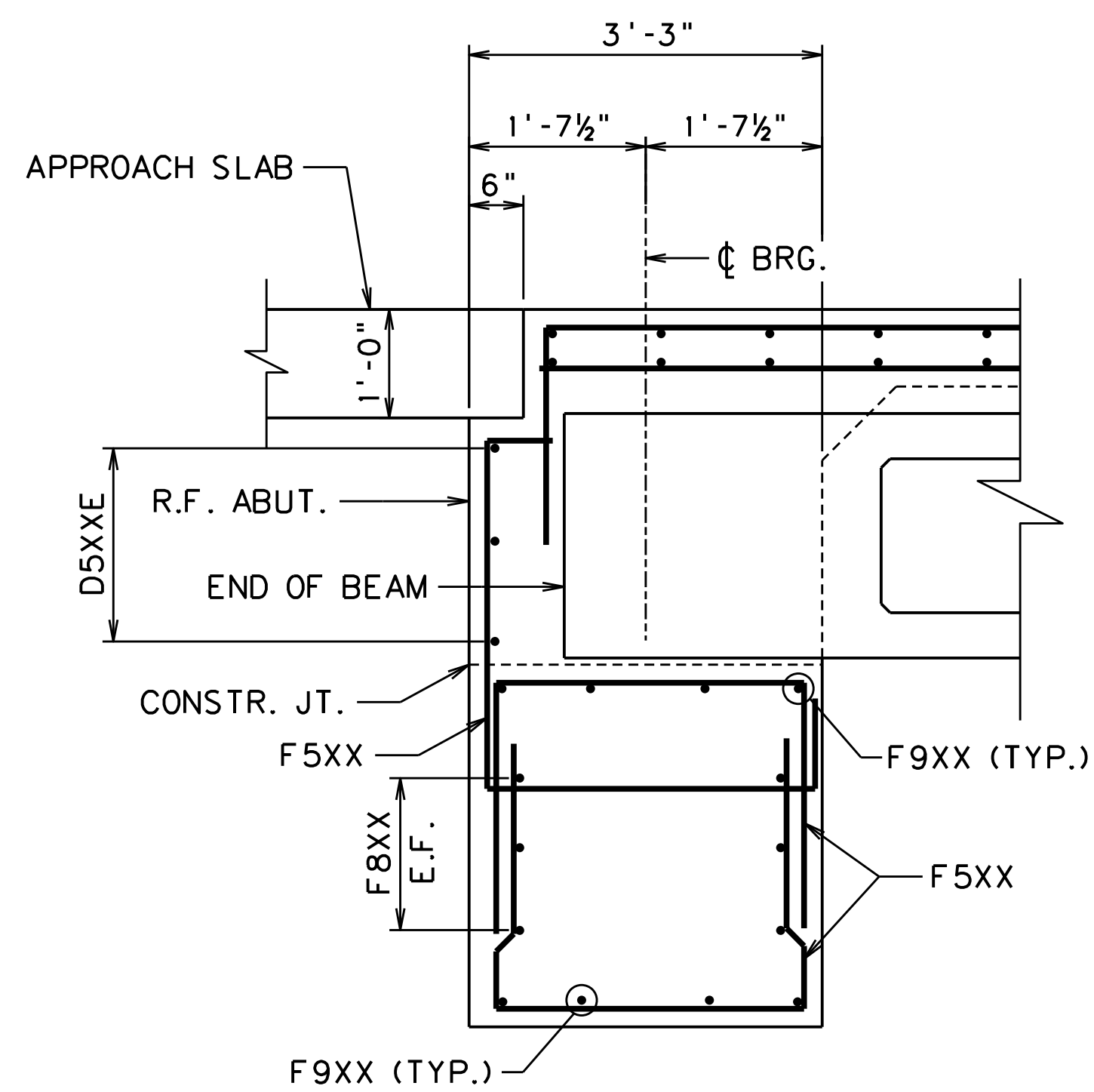
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

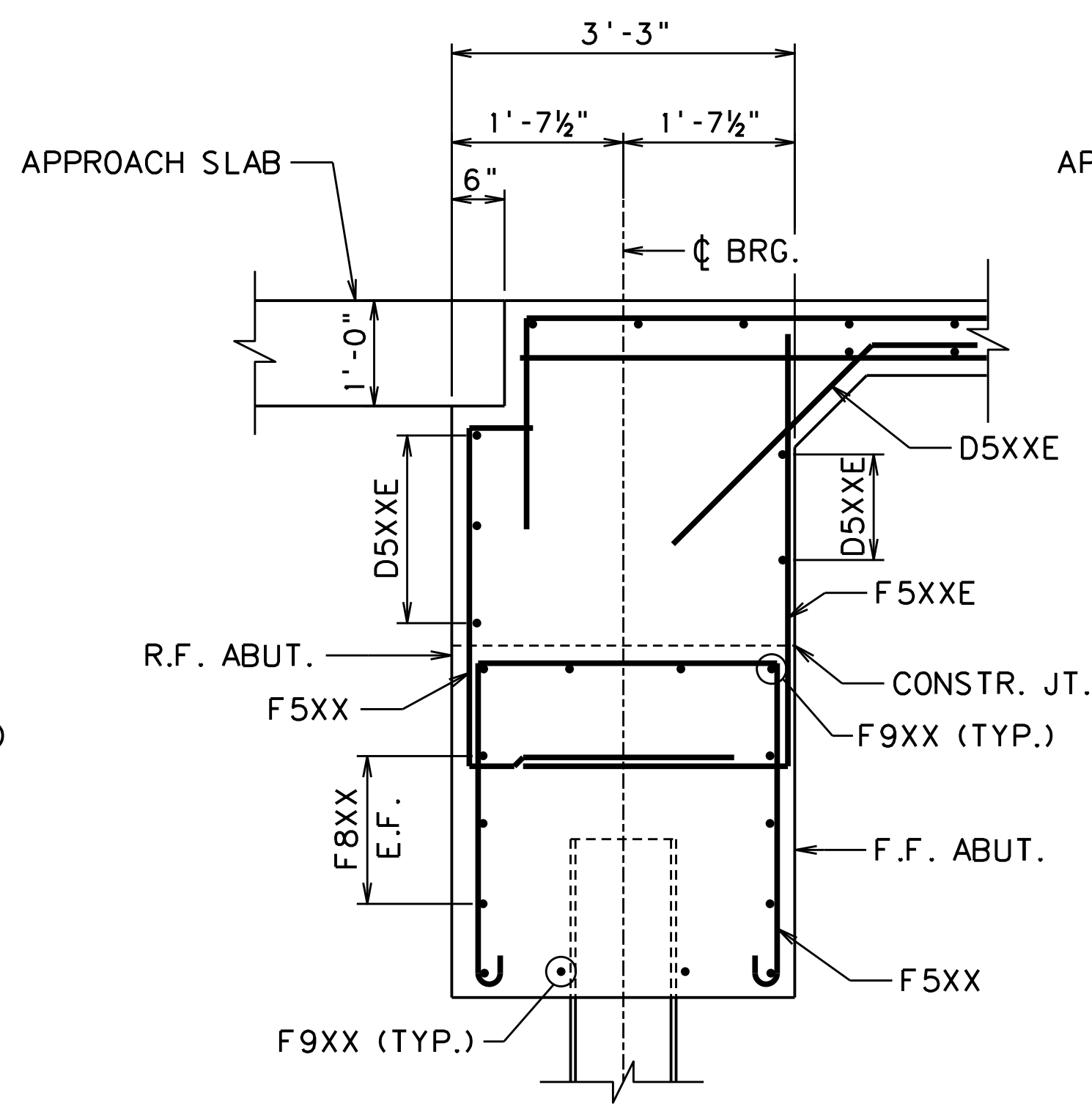
**VAN VOORHIS
ROAD BRIDGE
ABUTMENT 1 PLAN
AND ELEVATION**

DESIGNED GCD	DATE JUN 2020	 A. MORTON THOMAS AND ASSOCIATES, INC. 417 GRAND PARK DRIVE, SUITE 102 PARKERSBURG, WV 26105	SHEET 3 of 16
DRAWN JAP	DATE JUN 2020		BRIDGE NO. 11618
CHECKED KAR	DATE JUN 2020		
CHECKED KAR	DATE JUN 2020		

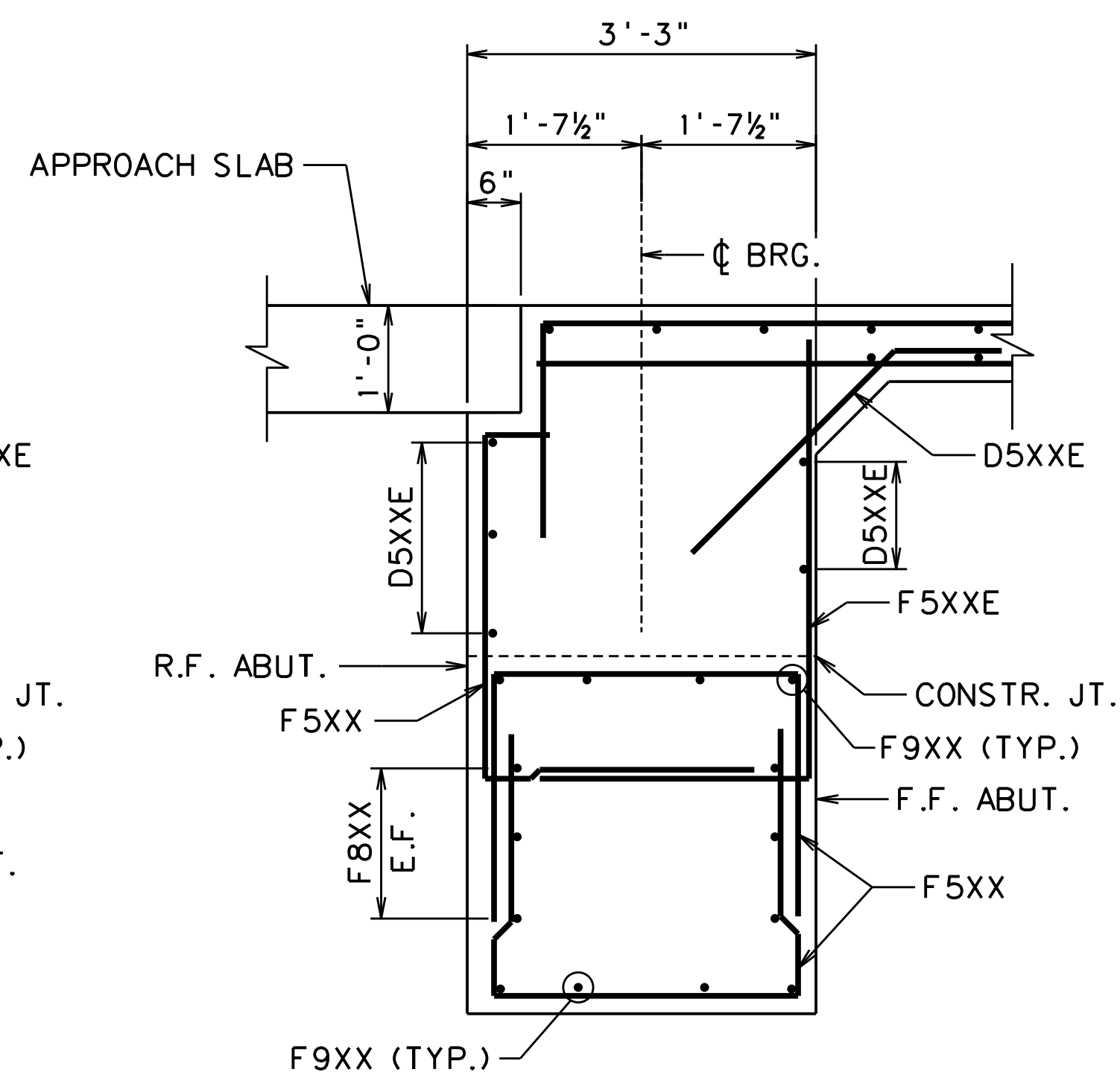
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (023)D	2020	MONONGALIA	228	301



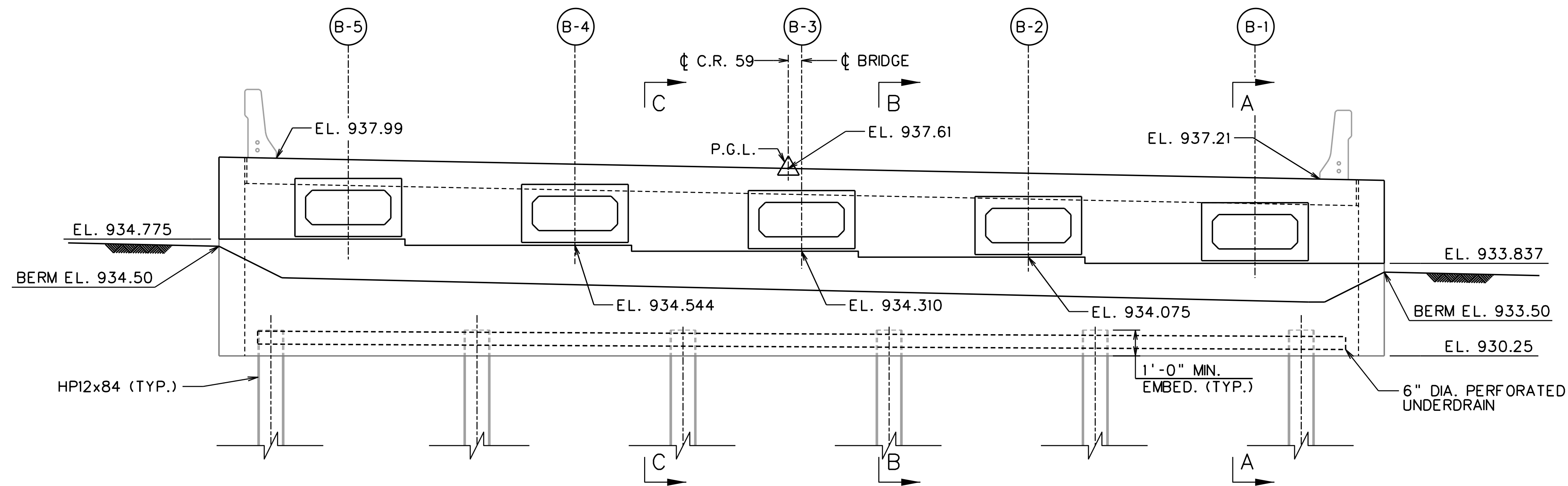
SECTION A-A
SCALE = 1/2" = 1'-0"



SECTION B-B
SCALE = 1/2" = 1'-0"




SECTION C-C
SCALE = 1/2" = 1'-0"



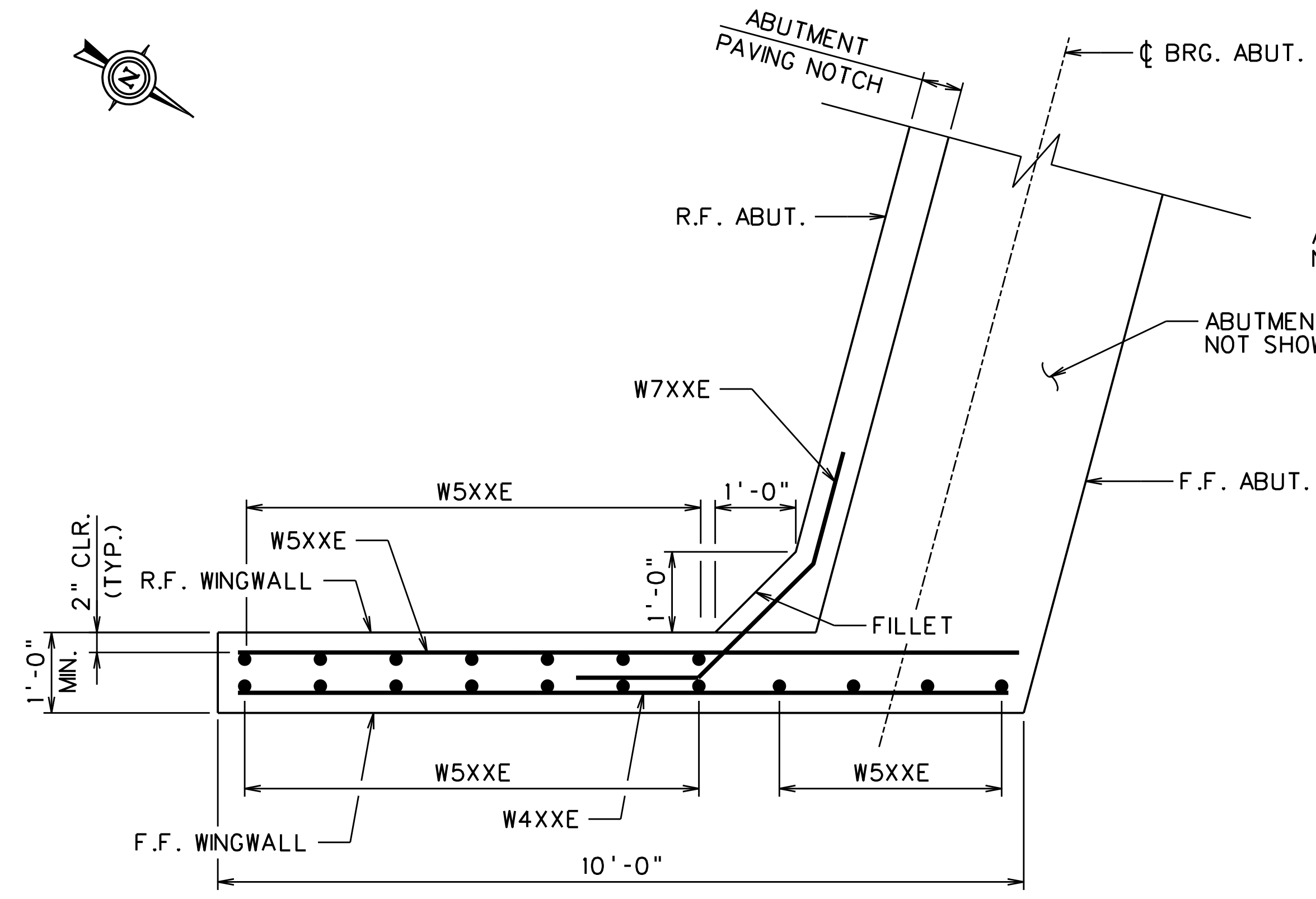
ABUTMENT 1 ELEVATION
SCALE = 3/8" = 1'-0"
LOOKING BACK STATION

NOTES:
1. FOR PILE CAP REINFORCEMENT, SEE SHEET X.

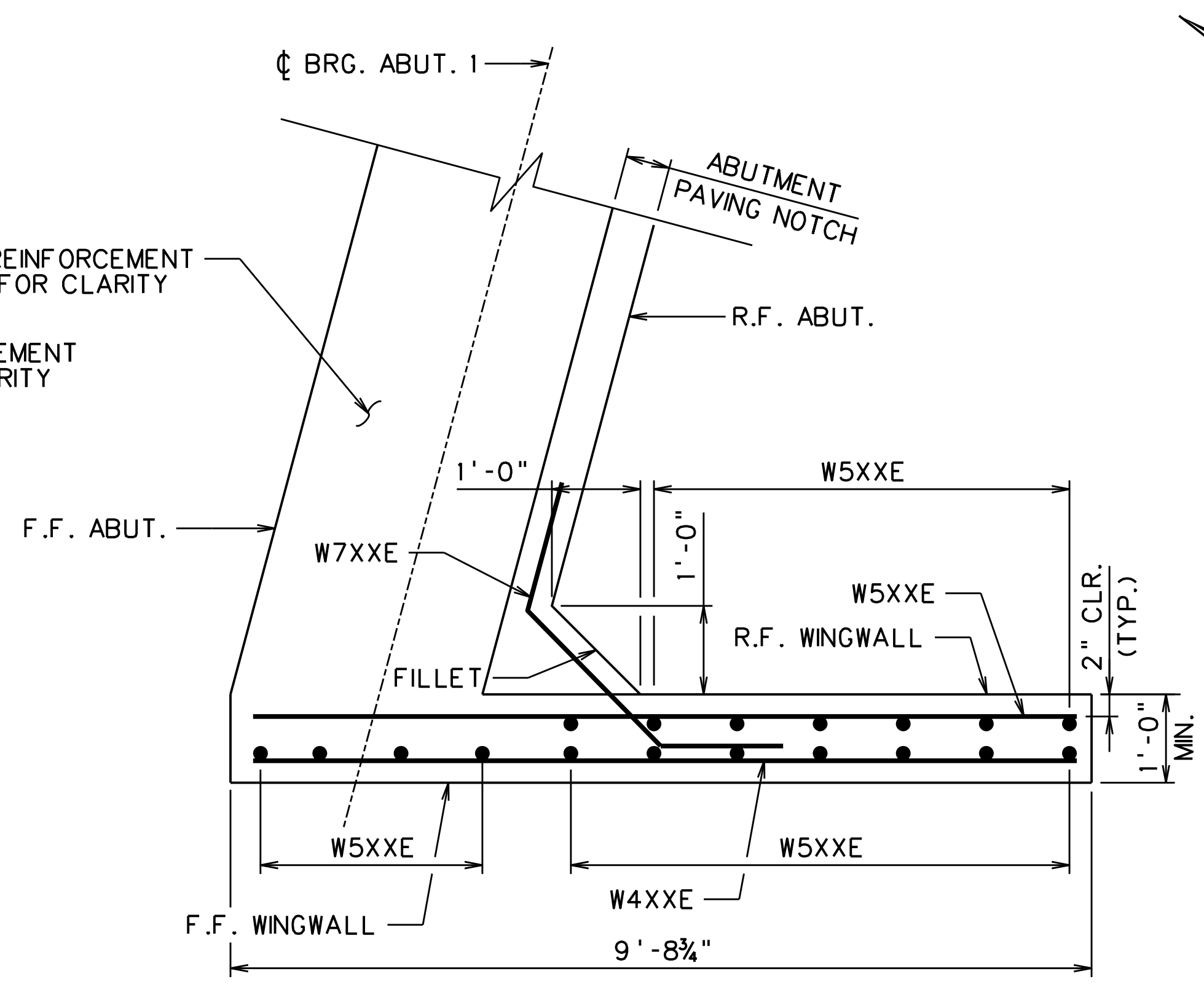
DESIGNED	GCD	DATE	JUN 2020
DRAWN	JAP	DATE	JUN 2020
CHECKED	KAR	DATE	JUN 2020
CHECKED	KAR	DATE	JUN 2020

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS VAN VOORHIS ROAD BRIDGE ABUTMENT 1 END DIAPHRAGM & DETAILS				
 A. MORTON THOMAS AND ASSOCIATES, INC. 417 GRAND PARK DRIVE, SUITE 102 PARKERSBURG, WV 26105				SHEET 4 of 16 BRIDGE NO. 11618

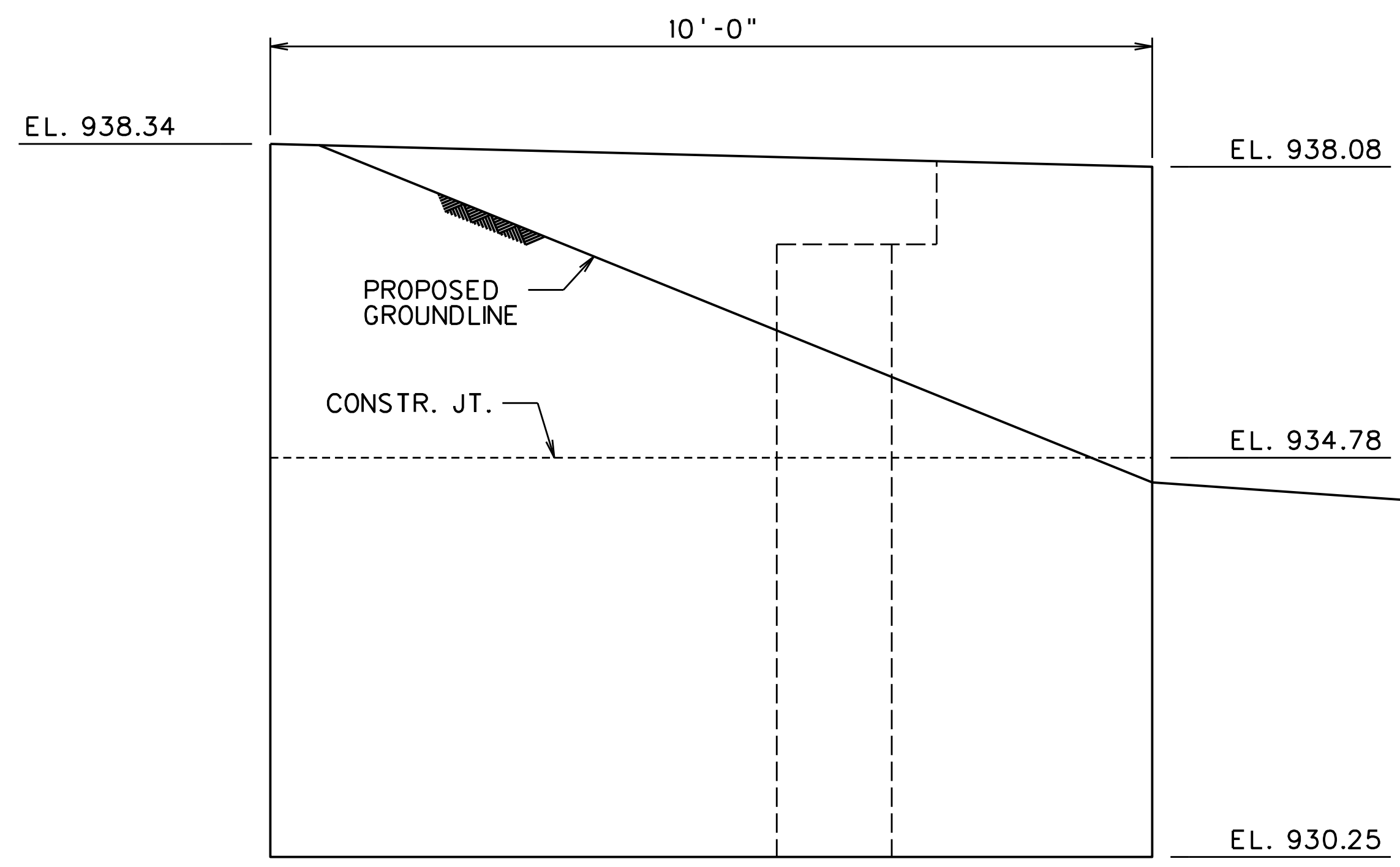
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (023)D	2020	MONONGALIA	229	301



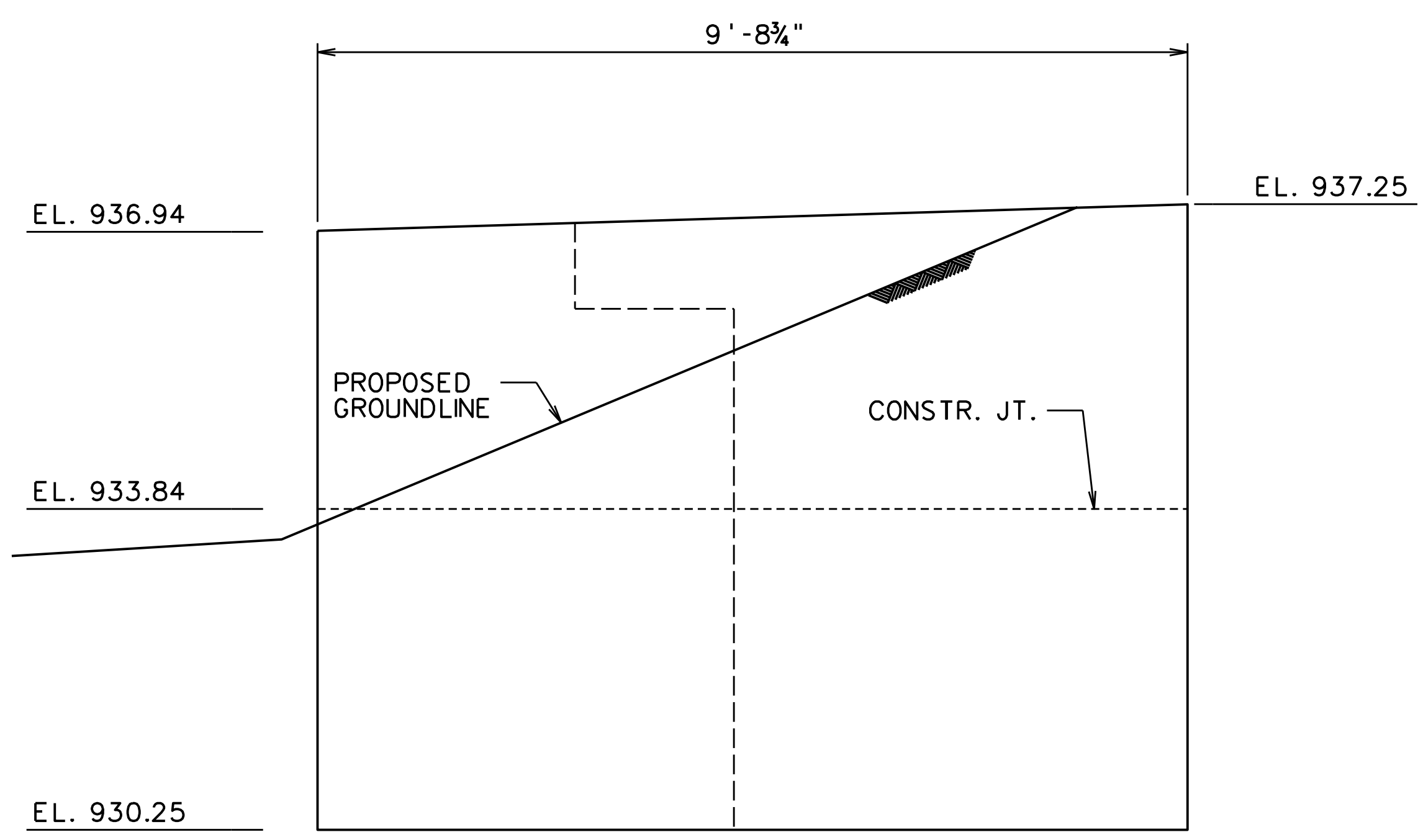
WINGWALL A - PLAN
SCALE = 3/4" = 1'-0"



WINGWALL B - PLAN
SCALE = 3/4" = 1'-0"



WINGWALL A - ELEVATION
SCALE = 3/4" = 1'-0"



WINGWALL B - ELEVATION
SCALE = 3/4" = 1'-0"

DESIGNED	GCD	DATE	JUN 2020
DRAWN	JAP	DATE	JUN 2020
CHECKED	KAR	DATE	JUN 2020
CHECKED	KAR	DATE	JUN 2020

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

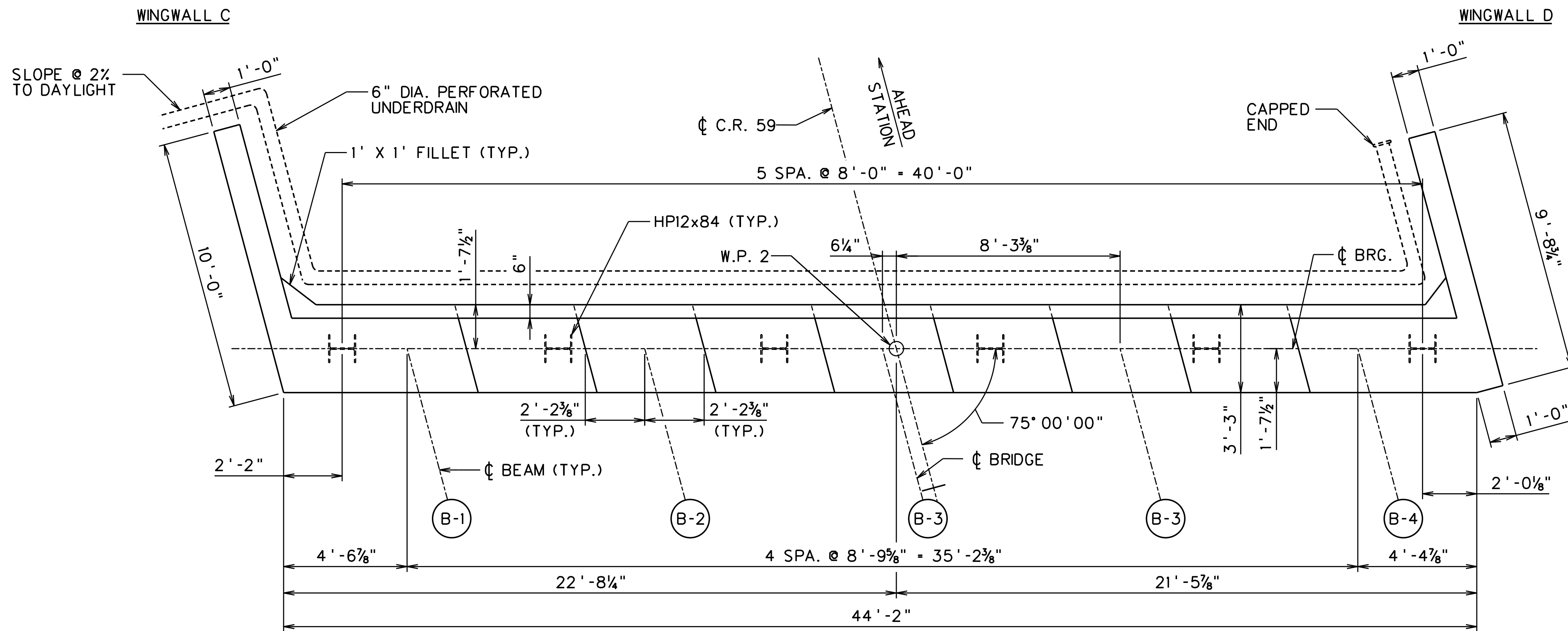
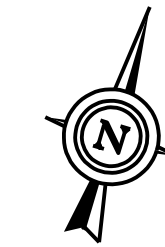
**VAN VOORHIS
ROAD BRIDGE
WINGWALL A & B
DETAILS**

AMT A. MORTON THOMAS AND ASSOCIATES, INC.
417 GRAND PARK DRIVE, SUITE 102
PARKERSBURG, WV 26105

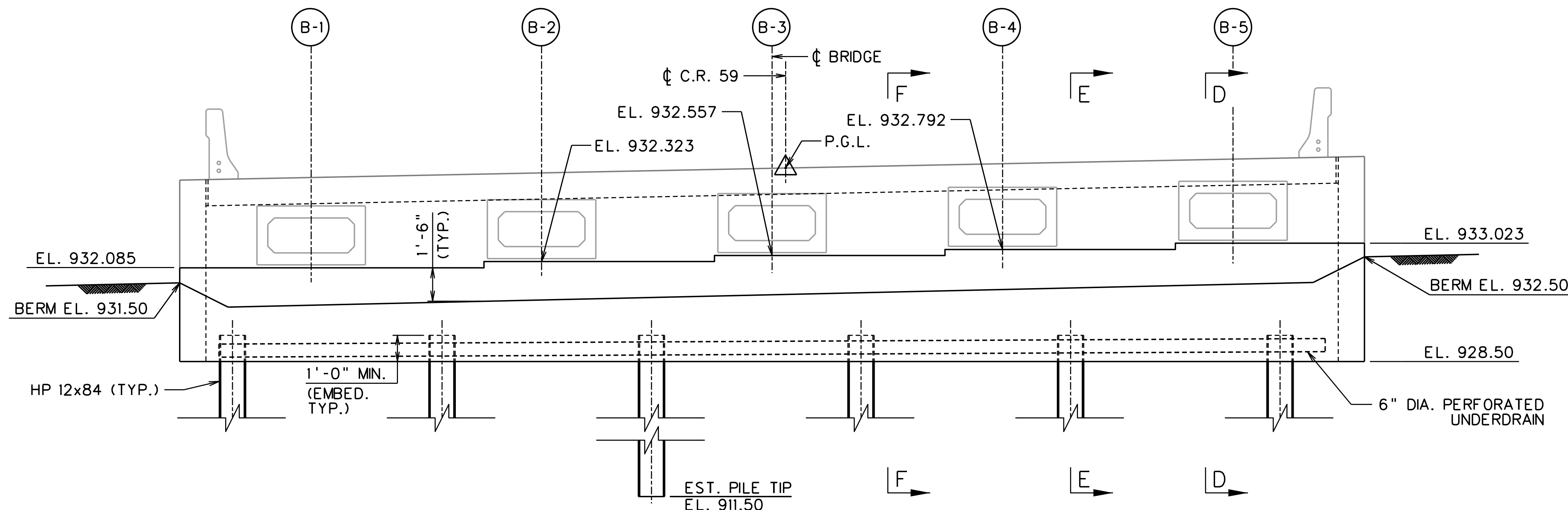
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

SHEET **5** of 16
BRIDGE NO. **11618**

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (023)D	2020	MONONGALIA	230	301



ABUTMENT 2 PLAN
SCALE = 3/8" = 1'-0"



ABUTMENT 2 ELEVATION
SCALE = 3/8" = 1'-0"
LOOKING AHEAD STATION

NOTES:

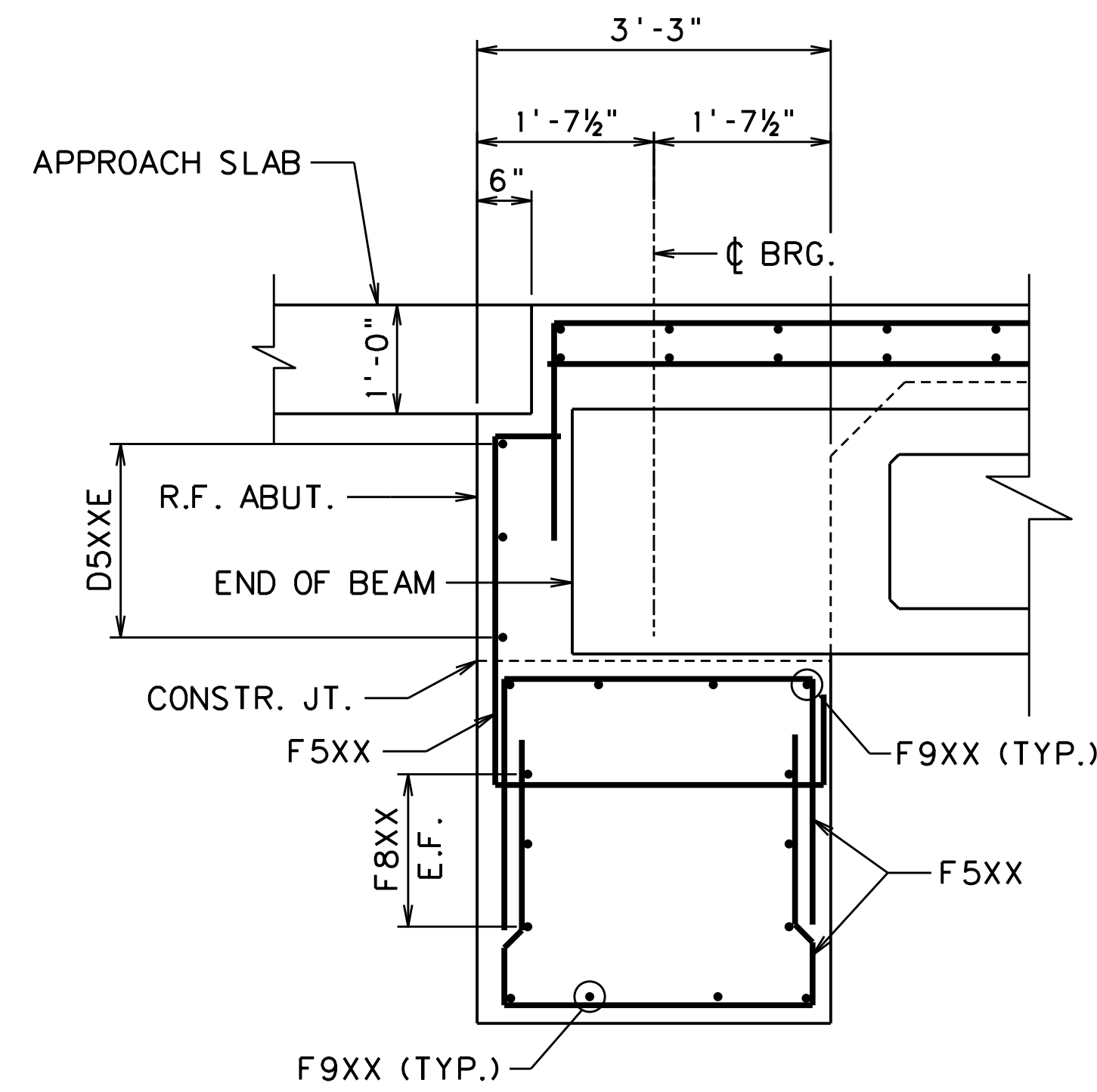
1. MAXIMUM FACTORED AXIAL PILE LOAD = 200 KIPS.
2. FACTORED AXIAL PILE RESISTANCE = 406 KIPS.
3. FOR SECTIONS D-D, E-E, & F-F SEE SHEET X.
4. FOR INTEGRAL BACKWALL REINFORCEMENT AND DETAILS, SEE SHEET X.

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

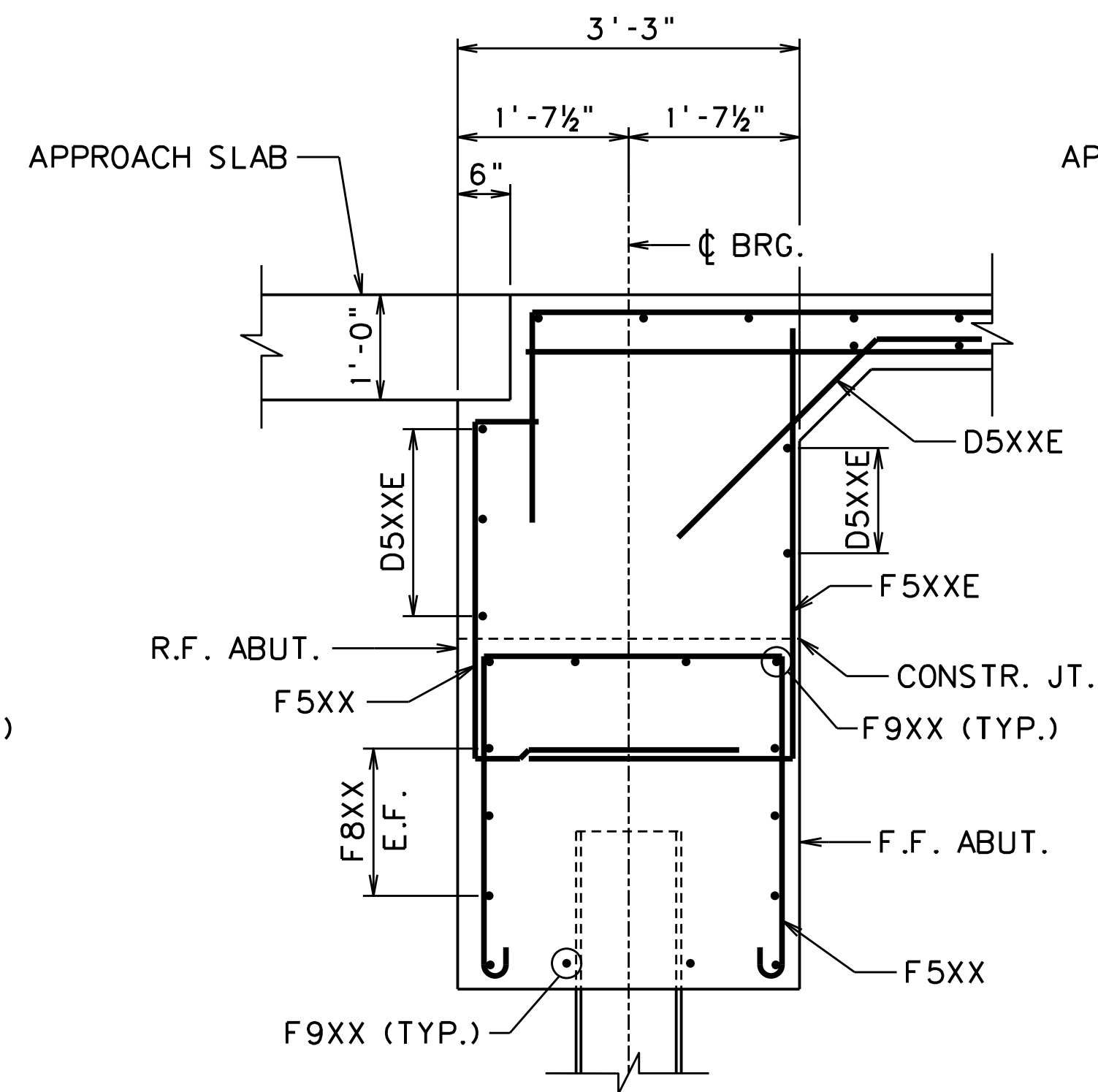
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
VAN VOORHIS ROAD BRIDGE
ABUTMENT 2 PLAN AND ELEVATION

DESIGNED GCD	DATE JUN 2020	 <small>A. MORTON THOMAS AND ASSOCIATES, INC. 417 GRAND PARK DRIVE, SUITE 102 PARKERSBURG, WV 26105</small>	SHEET 6 of 16
DRAWN JAP	DATE JUN 2020		BRIDGE NO. 11618
CHECKED KAR	DATE JUN 2020		
CHECKED KAR	DATE JUN 2020		

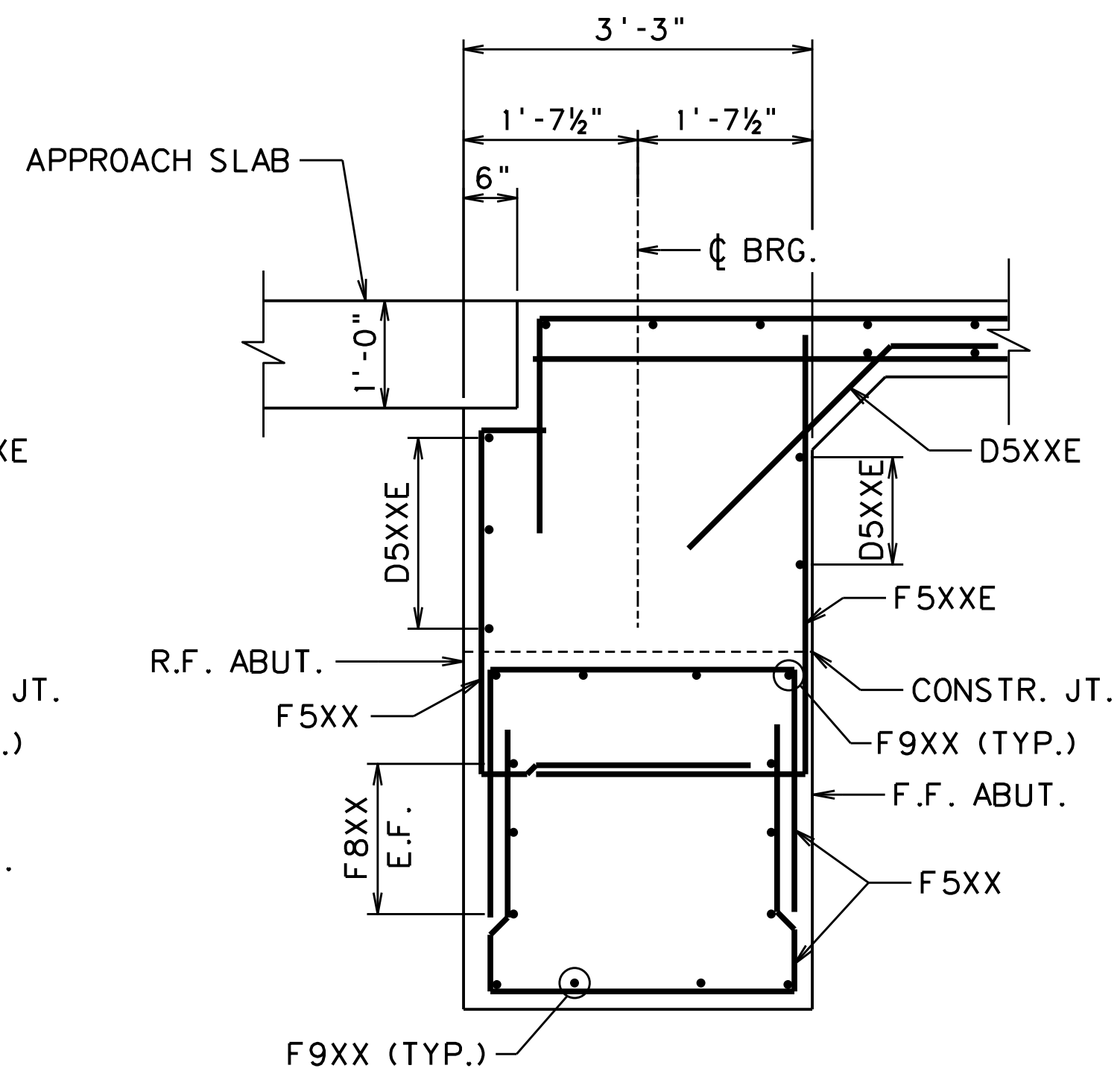
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (023)D	2020	MONONGALIA	231	301



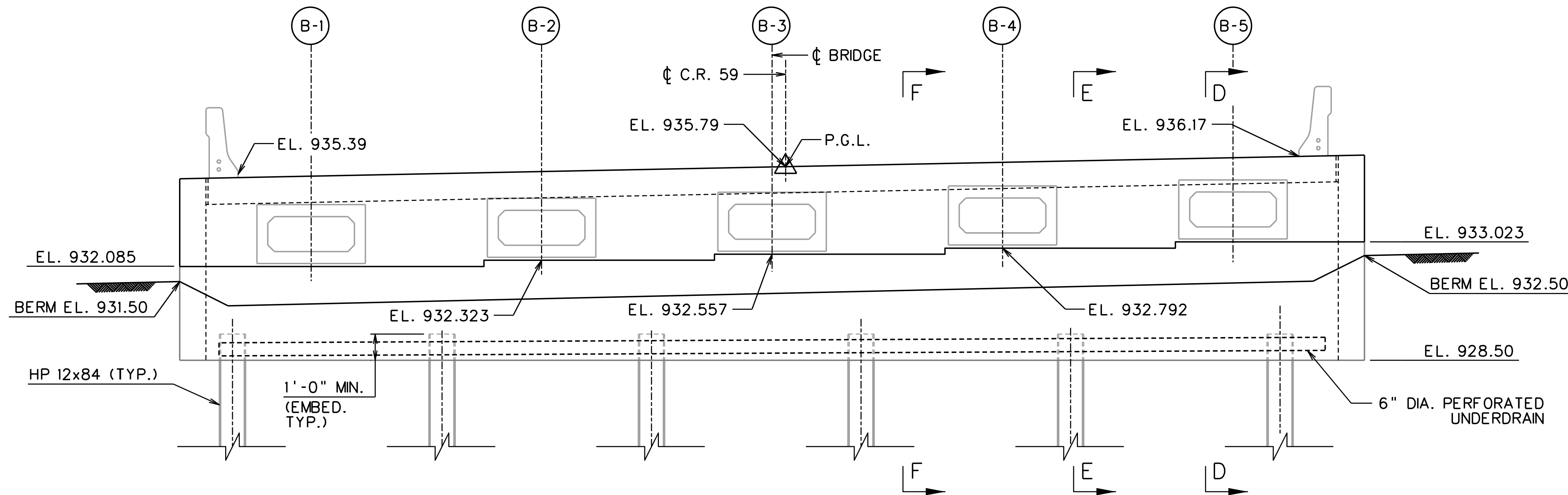
SECTION D-D
SCALE = 1/2" = 1'-0"



SECTION E-E
SCALE = 1/2" = 1'-0"




SECTION F-F
SCALE = 1/2" = 1'-0"



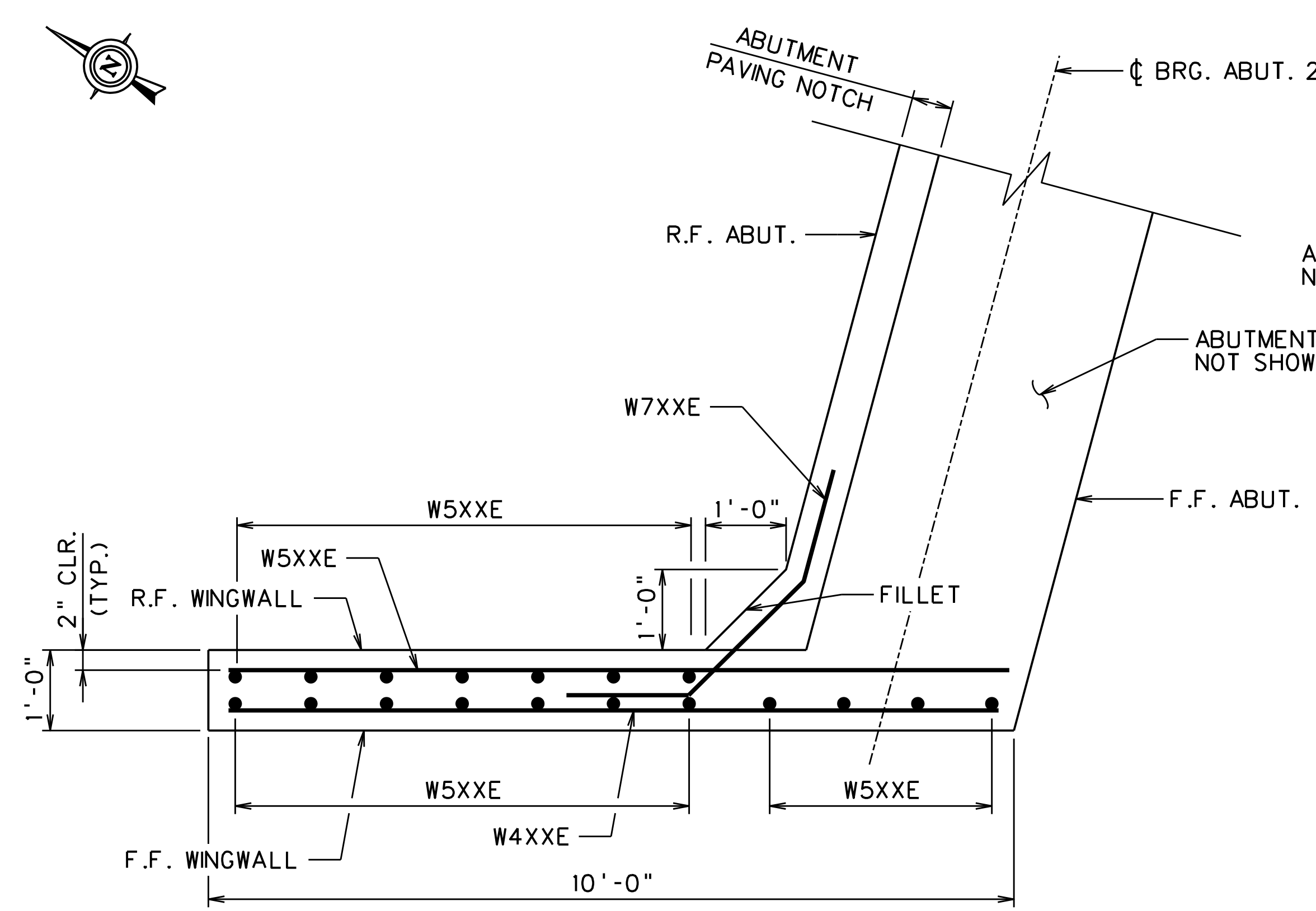
ABUTMENT 2 ELEVATION
SCALE = 3/8" = 1'-0"
LOOKING AHEAD STATION

- NOTES:**
1. FOR PILE CAP REINFORCEMENT, SEE SHEET X.

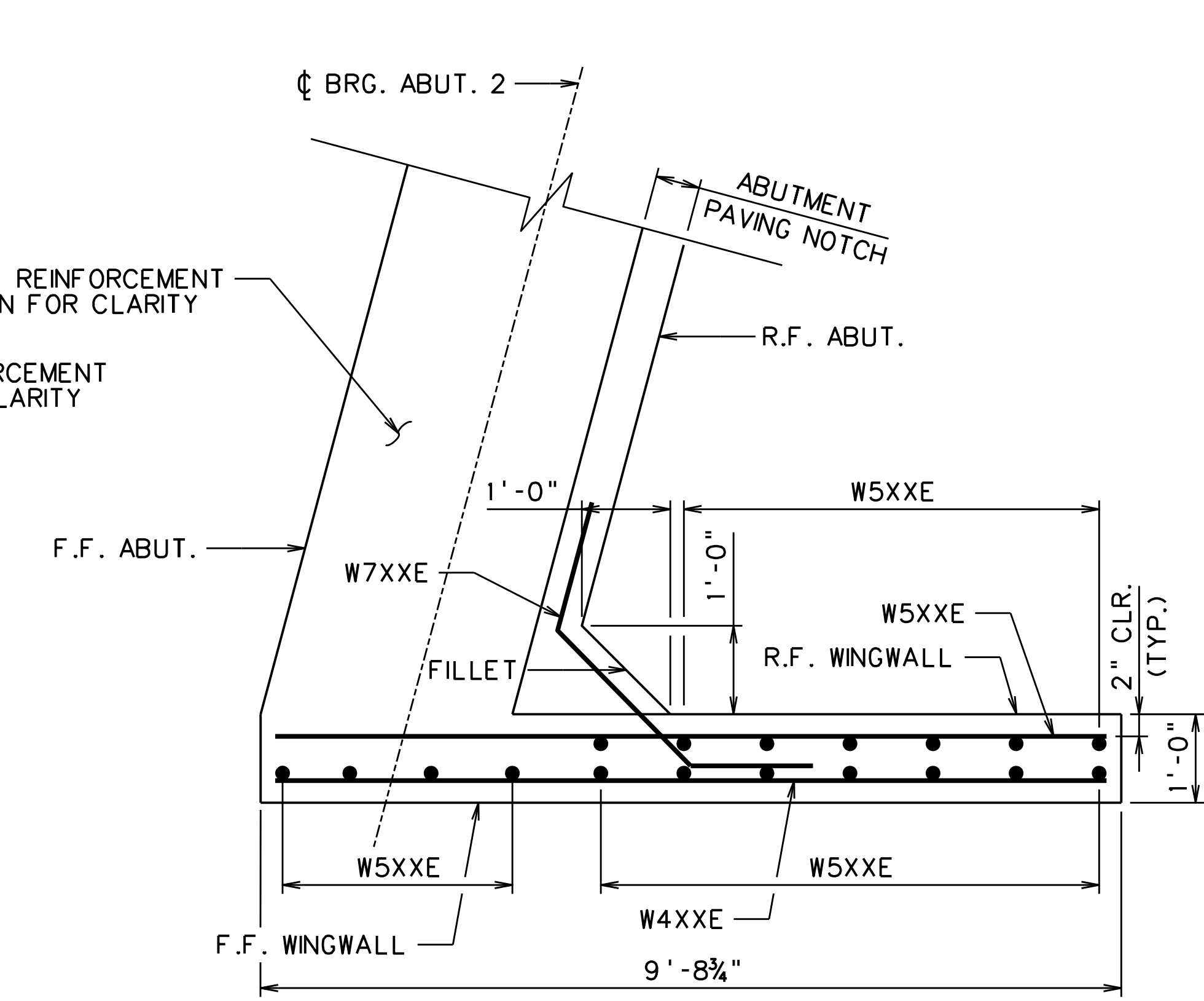
DESIGNED	GCD	DATE	JUN 2020
DRAWN	JAP	DATE	JUN 2020
CHECKED	KAR	DATE	JUN 2020
CHECKED	KAR	DATE	JUN 2020

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS VAN VOORHIS ROAD BRIDGE ABUTMENT 2 END DIAPHRAGM & DETAILS				
 A. MORTON THOMAS AND ASSOCIATES, INC. <small>417 GRAND PARK DRIVE, SUITE 102 PARKERSBURG, WV 26105</small>				SHEET 7 of 16 BRIDGE NO. 11618

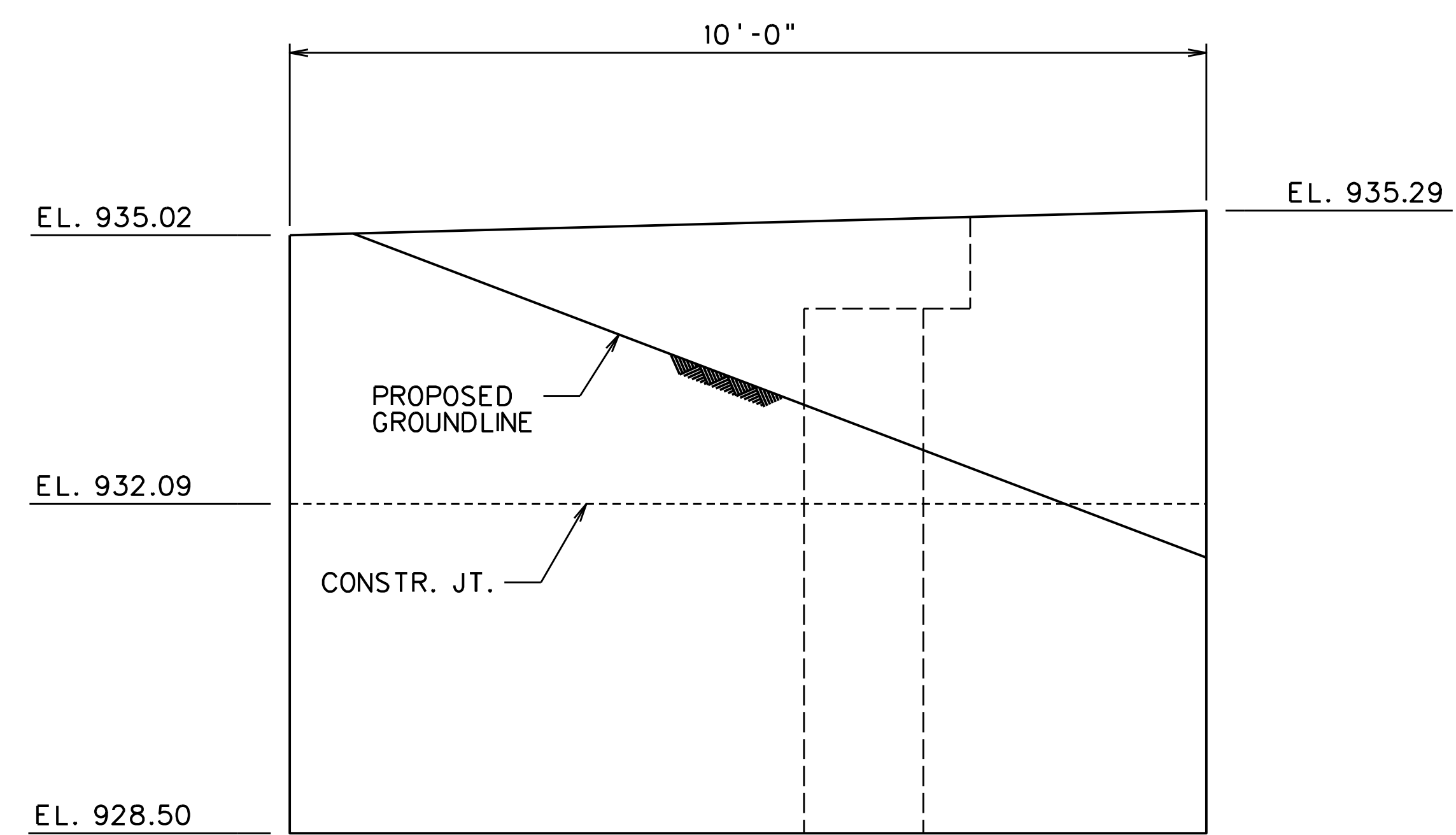
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (023)D	2020	MONONGALIA	232	301



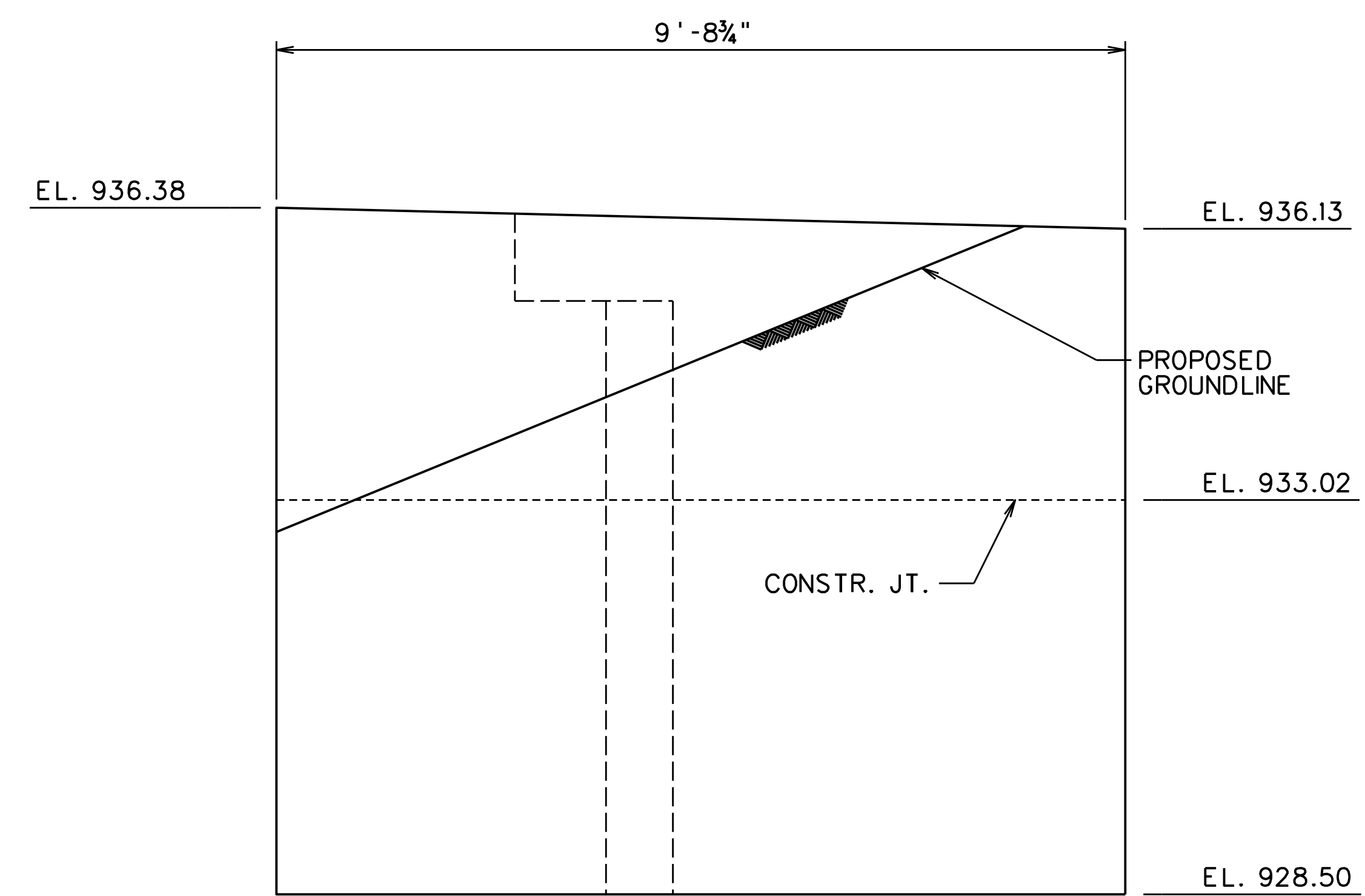
WINGWALL C - PLAN
SCALE = 3/4" = 1'-0"



WINGWALL D - PLAN
SCALE = 3/4" = 1'-0"



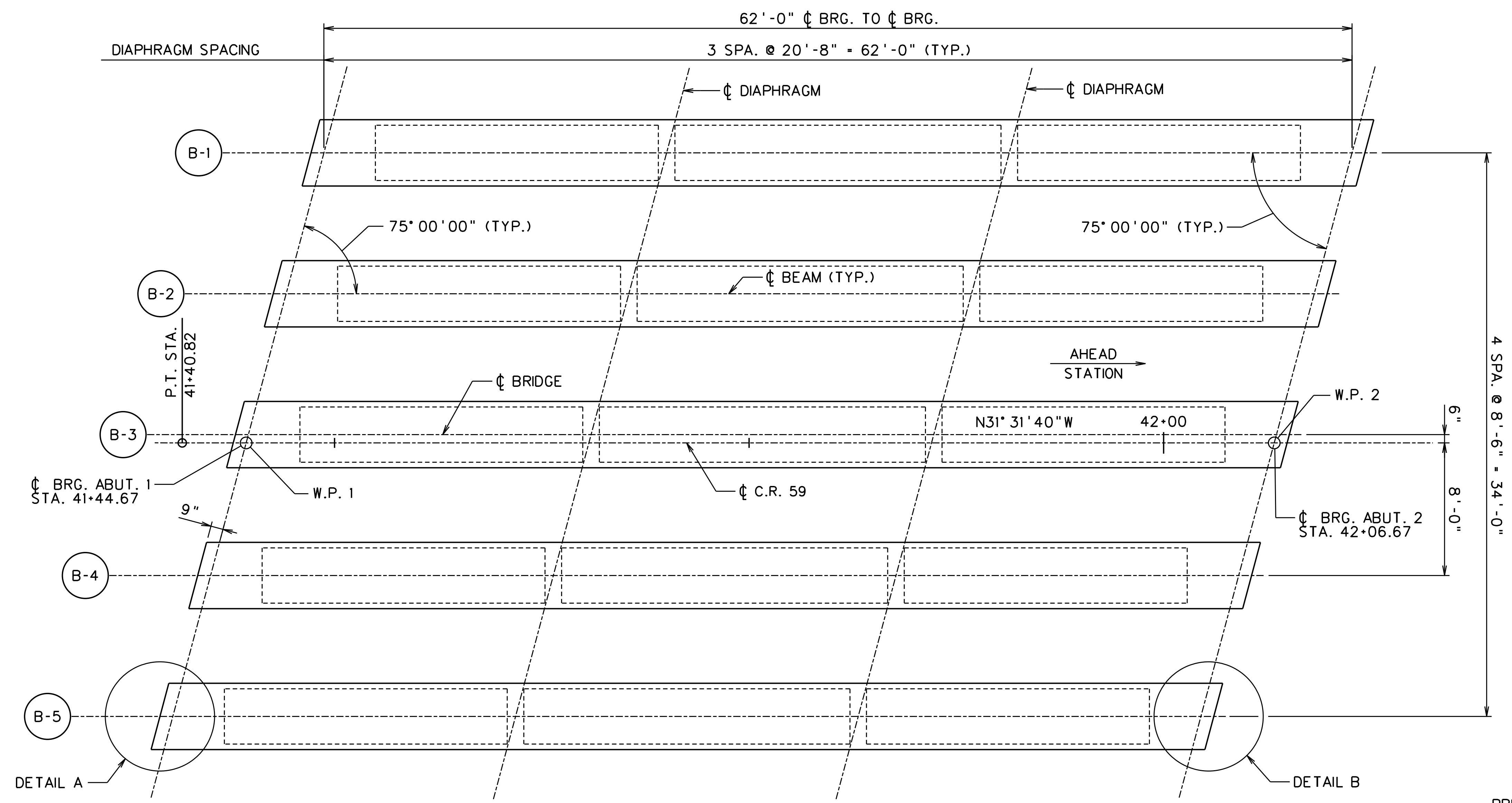
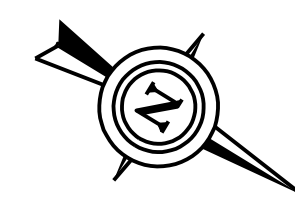
WINGWALL C - ELEVATION
SCALE = 3/4" = 1'-0"



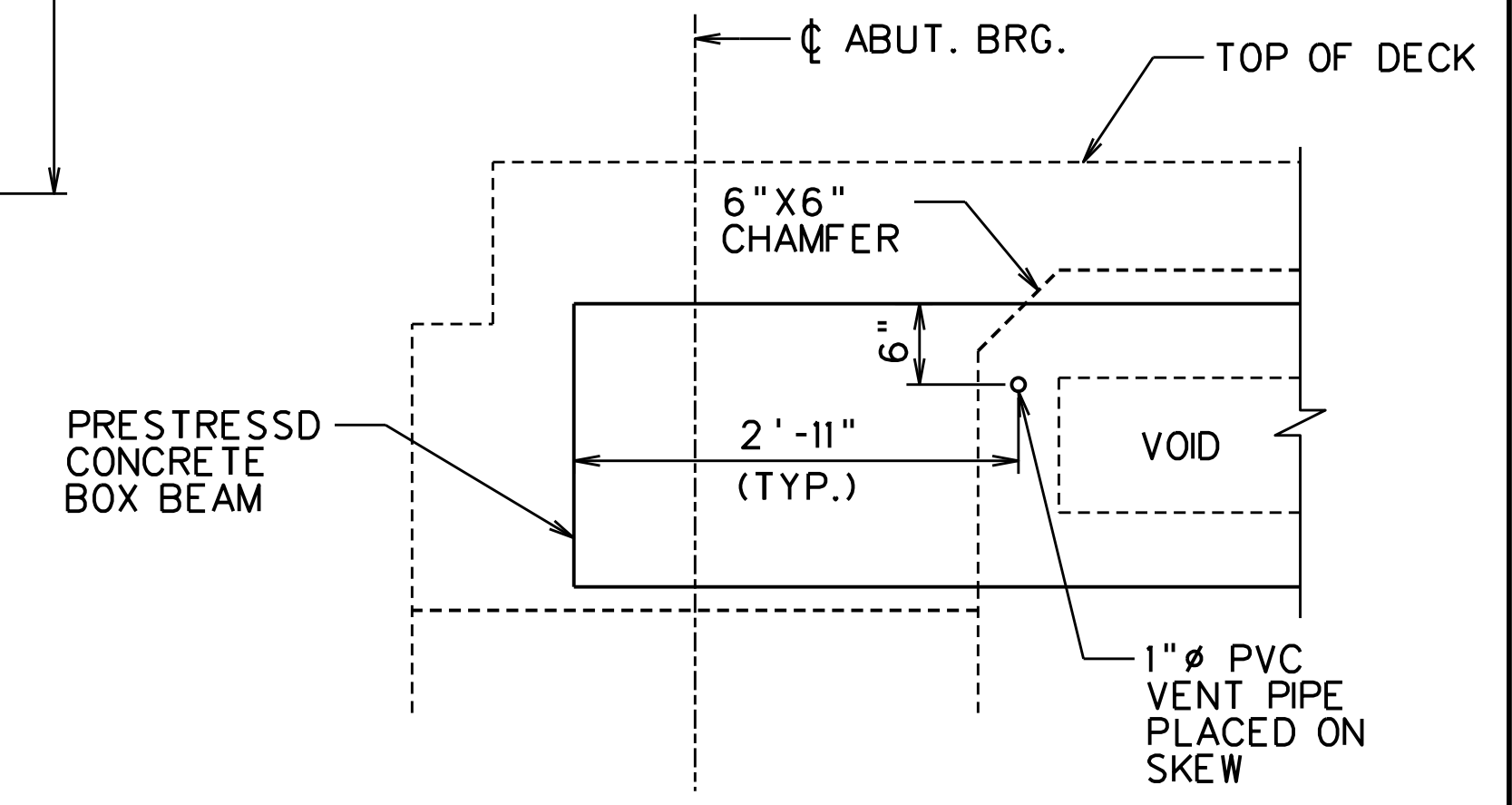
WINGWALL D - ELEVATION
SCALE = 3/4" = 1'-0"

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS VAN VOORHIS ROAD BRIDGE WINGWALL C & D DETAILS				
DESIGNED GCD	DATE JUN 2020			
DRAWN JAP	DATE JUN 2020			
CHECKED KAR	DATE JUN 2020			
CHECKED KAR	DATE JUN 2020			
AMT		A. MORTON THOMAS AND ASSOCIATES, INC. 417 GRAND PARK DRIVE, SUITE 102 PARKERSBURG, WV 26105		
		SHEET 8 of 16		BRIDGE NO. 11618

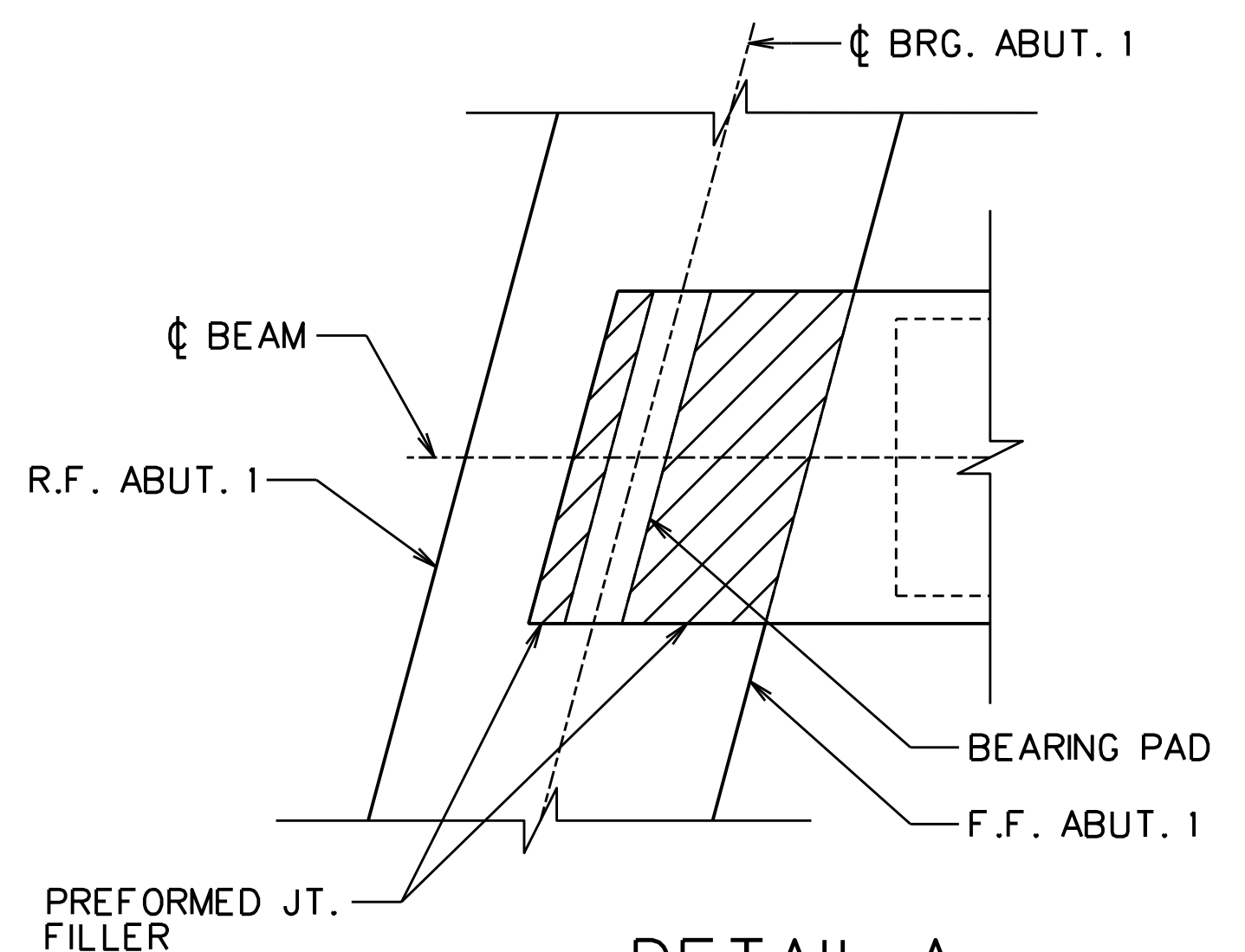
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (023)D	2020	MONONGALIA	233	301



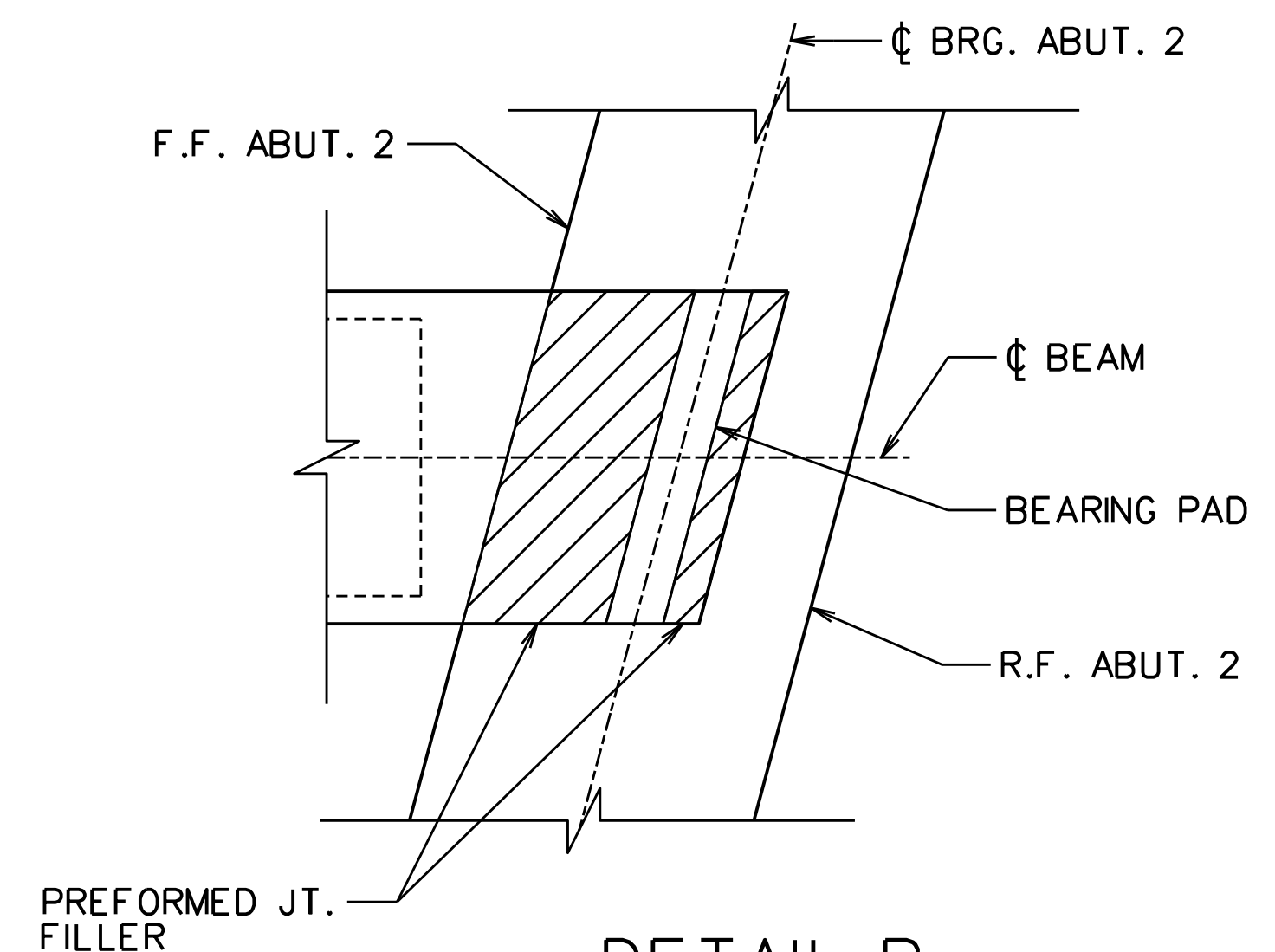
FRAMING PLAN
 SCALE: 1/4"=1'-0"



VENT PIPE DETAIL
 (TYP. EACH END)
 NOT TO SCALE



DETAIL A
 SCALE: 1/2"=1'-0"



DETAIL B
 SCALE: 1/2"=1'-0"

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

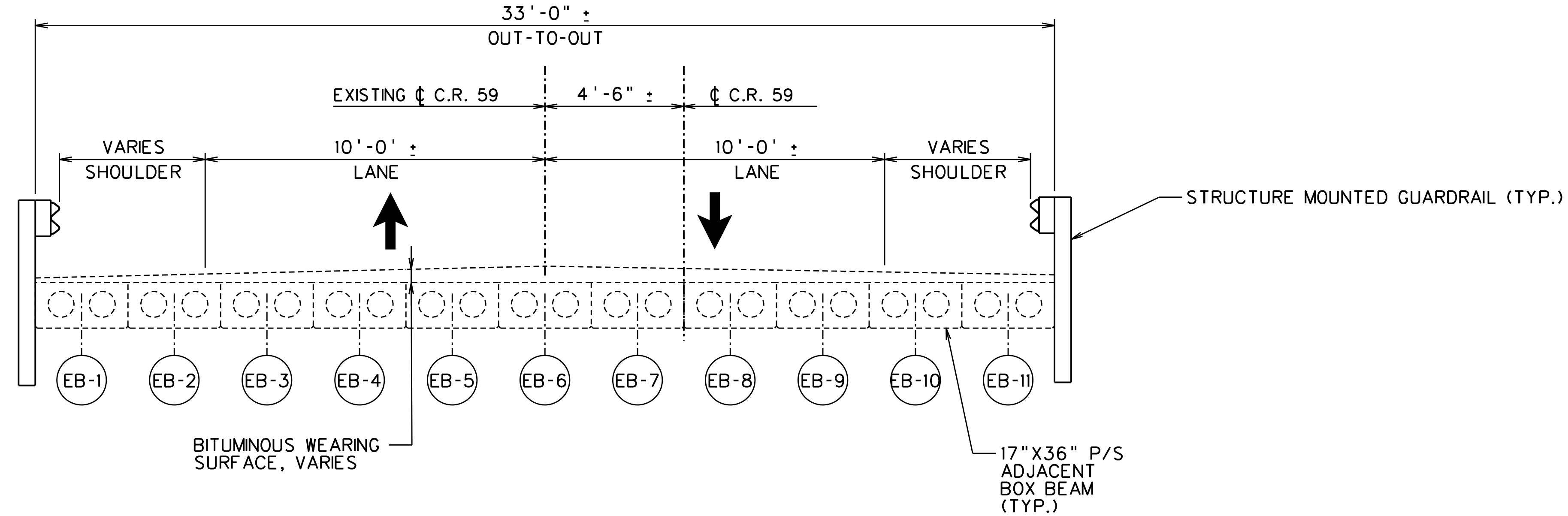
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
VAN VOORHIS ROAD BRIDGE
FRAMING PLAN

DESIGNED	DATE
GCD	JUN 2020
DRAWN	DATE
JAP	JUN 2020
CHECKED	DATE
KAR	JUN 2020
CHECKED	DATE
KAR	JUN 2020

AMT A. MORTON THOMAS AND ASSOCIATES, INC.
 417 GRAND PARK DRIVE, SUITE 102
 PARKERSBURG, WV 26105

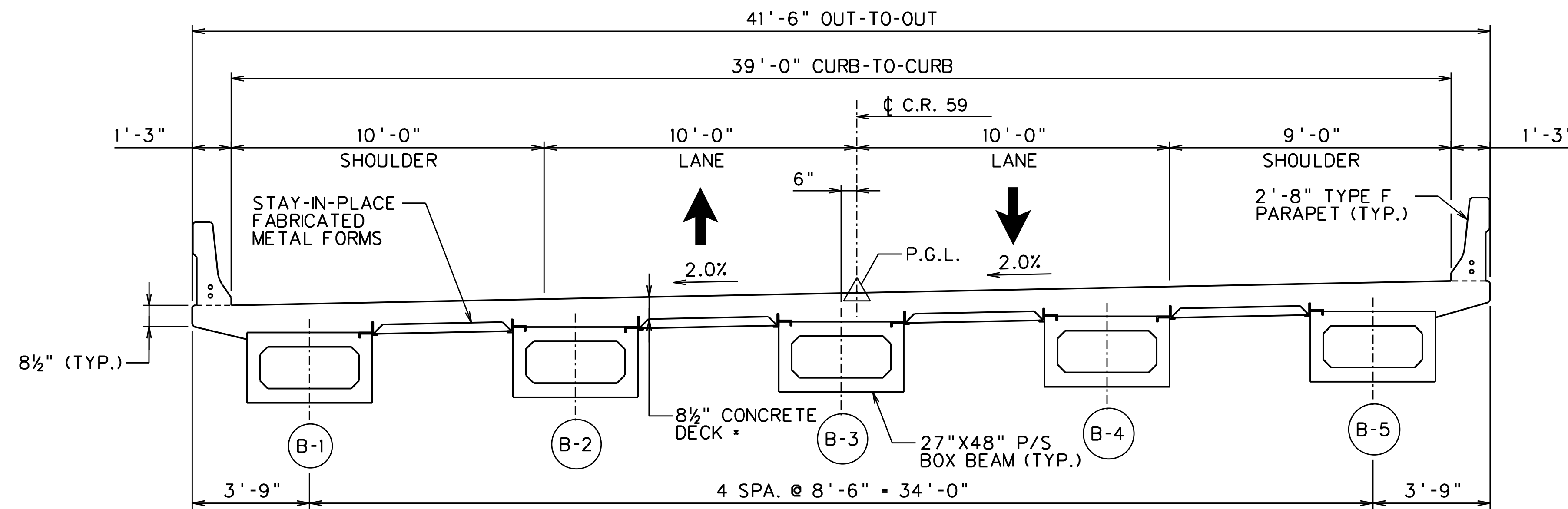
SHEET **9** OF **16**
 BRIDGE NO. **11618**

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
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EXISTING TYPICAL SECTION

LOOKING AHEAD STATION
SCALE: 3/8" = 1'-0"



PROPOSED TYPICAL SECTION

LOOKING AHEAD STATION
SCALE: 3/8" = 1'-0"

* PROVIDE 1/4" GRINDING AS INDICATED IN THE GENERAL NOTES

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

VAN VOORHIS ROAD BRIDGE

TYPICAL SECTIONS

DESIGNED	GCD	DATE	JUN 2020
DRAWN	JAP	DATE	JUN 2020
CHECKED	KAR	DATE	JUN 2020
CHECKED	KAR	DATE	JUN 2020

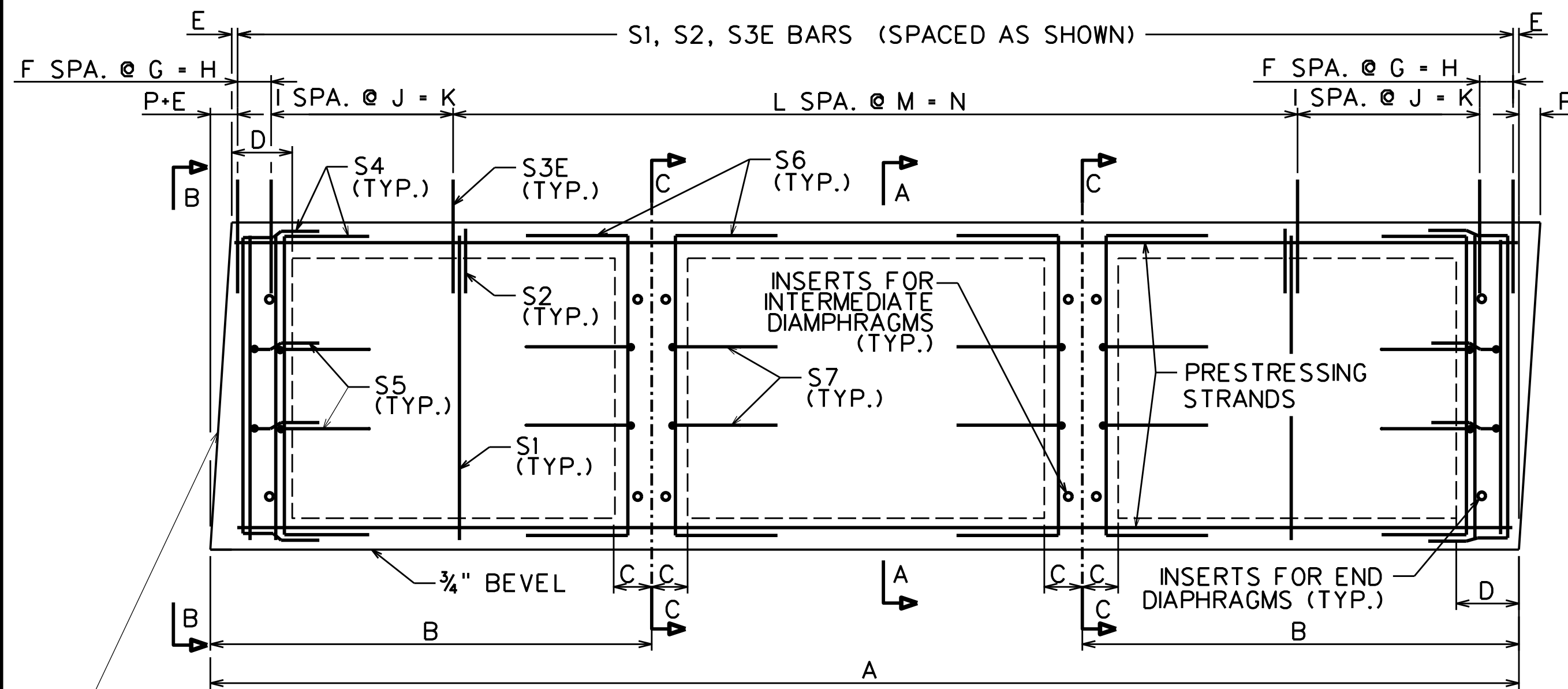
AMT A. MORTON THOMAS AND ASSOCIATES, INC.
417 GRAND PARK DRIVE, SUITE 102
PARKERSBURG, WV 26105

SHEET 10 of 16
BRIDGE NO. 11618

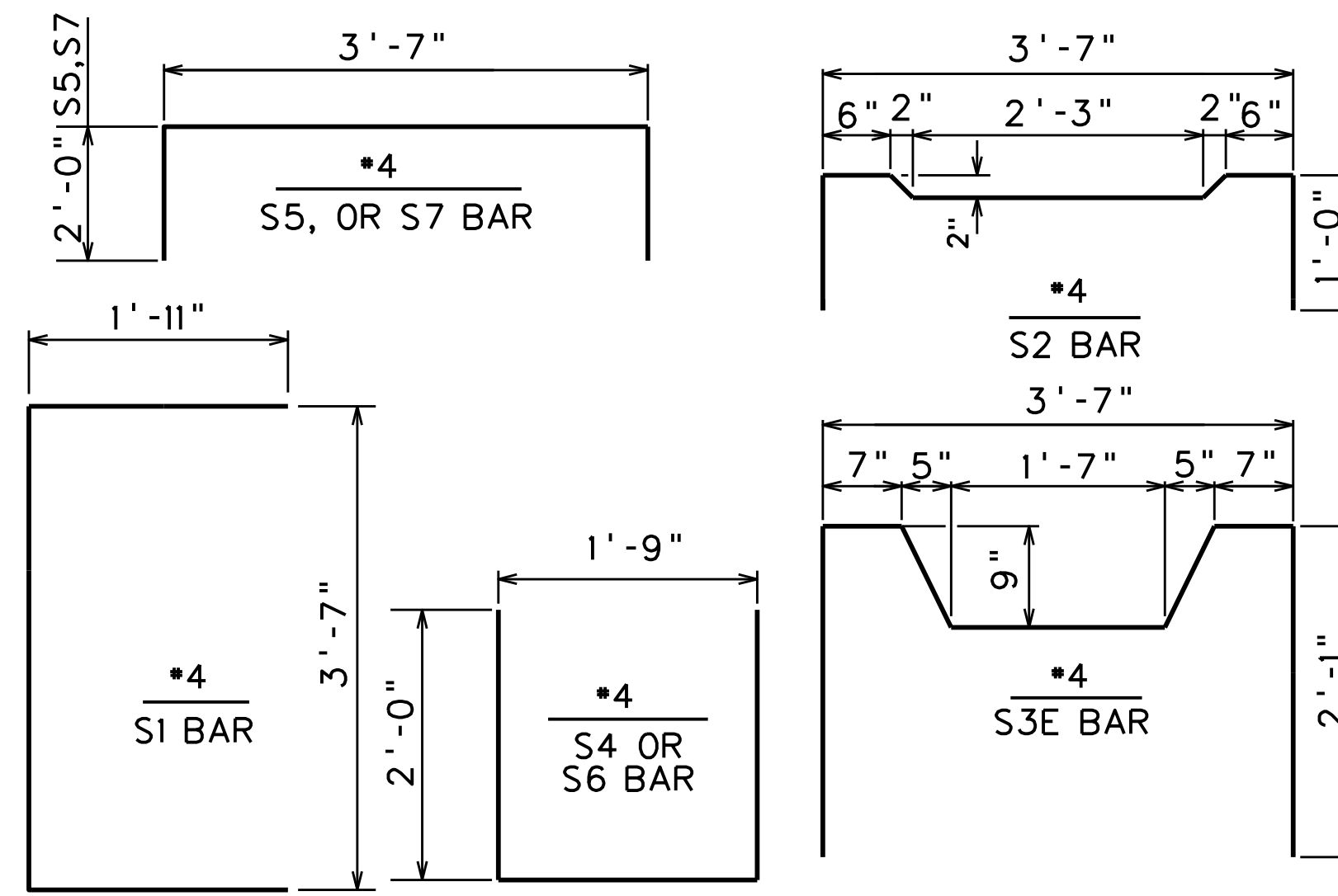
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (023)D	2020	MONONGALIA	235	301

NOTES:

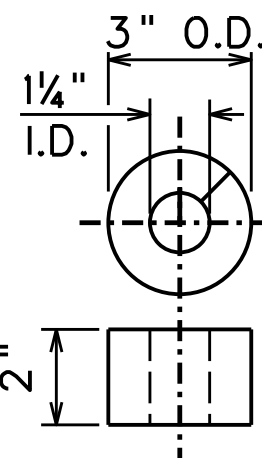
1. THE CONCRETE SHALL ATTAIN A COMPRESSIVE STRENGTH OF AT LEAST 6,000 PSI, AS SHOWN BY STANDARD CYLINDERS CURED IDENTICALLY WITH THE BEAMS, BEFORE TRANSFERRING BOND STRESS TO THE CONCRETE; OR BEFORE RELEASING THE END ANCHORS. CYLINDER STRENGTH SHALL BE 8,000 PSI WITHIN 28 DAYS.
2. PRETENSIONED 27x48" P. C. BOX BEAMS SHALL BE USED. APPLY AN INITIAL FORCE OF 30,983 LBS TO EACH LOW-RELAXATION STRAND. THE DEPARTMENT WILL REJECT THE BEAMS IF THE FINISHED UNITS CONTAINED HONEYCOMBED CONCRETE TO THE EXTENT THAT THE ENGINEER DETERMINES THE STRENGTH OR DETERIORATION RESISTANCE IS REDUCED. BEAM SHORTENING DUE TO SHRINKING AND ELASTIC CHANGES IS LIMITED TO 0.0005L.
3. PRESTRESSING STRANDS SHALL BE 1/2" NOMINAL DIA., GRADE 270, UNCOATED SEVEN WIRE LOW-RELAXATION STRAND IN ACCORDANCE WITH AASHTO M203. THE STRANDS SHALL BE PLACED SYMMETRICALLY IN EACH LAYER. SHOP DRAWINGS SHALL SHOW THE TRAND LOCATIONS AND THE DETENSIONING PLAN BY NUMBERING THE SEQUENCE OF THE STRAND PATTERN. THE SHOP DRAWINGS SHALL ALSO SHOW THE STRAND PATTERN FOR DEBONDED STRANDS.
4. ROUGHEN THE TOP SURFACE OF EACH BEAM TO AN AMPLITUDE OF APPROXIMATELY 1/4" AND MAINTAIN CLEAN AND FREE OF LAITANCE.
5. DEFORMED WIRE FABRIC IS PERMITTED INSTEAD OF REINFORCING STEEL BARS PROVIDED AN EQUAL STEEL AREA IS ATTAINED. WIRE FABRIC MUST CONFORM TO THE REQUIREMENTS OF AASHTO SECTION M225.
6. ALL NON-PRESTRESSING REINFORCING BARS SHALL BE GRADE 60.
7. ALL REINFORCING STEEL BARS DESIGNATED "E" SHALL BE EPOXY COATED.
8. ALL STRANDS SHALL BE ENCLOSED INSIDE STIRRUP CAGE FOR THE ENTIRE LENGTH OF BEAM.
9. LIFTING DEVICES SHALL BE SHOWN ON SHOP DRAWINGS FOR APPROVAL. LIFTING SHALL BE BY EQUAL LOADS TO EACH DEVICE. INCLUDE PAYMENT IN ITEM 603-01, PRESTRESSED CONCRETE BEAMS, PER FOOT.



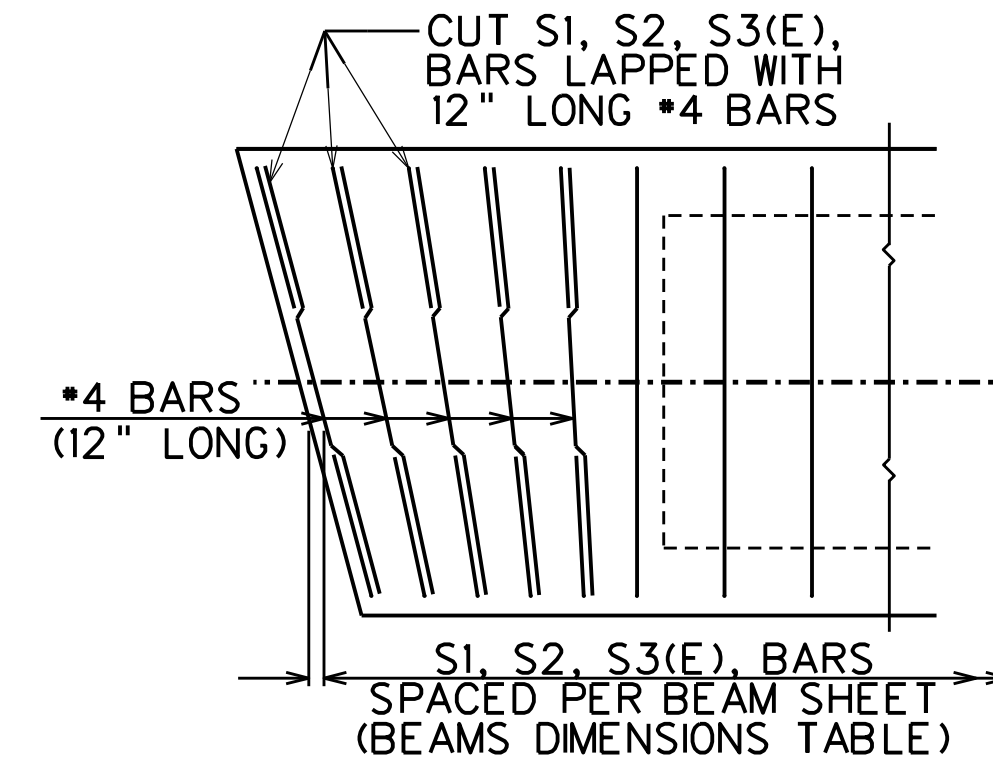
ELEVATION
N.T.S.



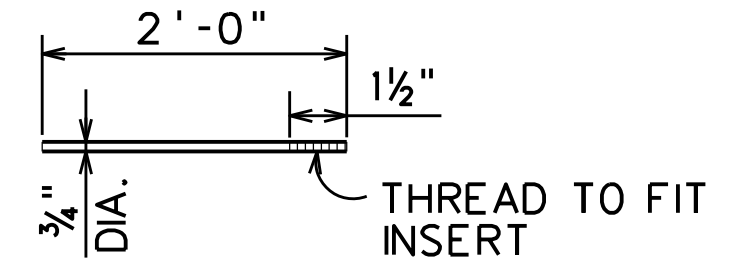
REINFORCING BAR DETAIL
N.T.S.



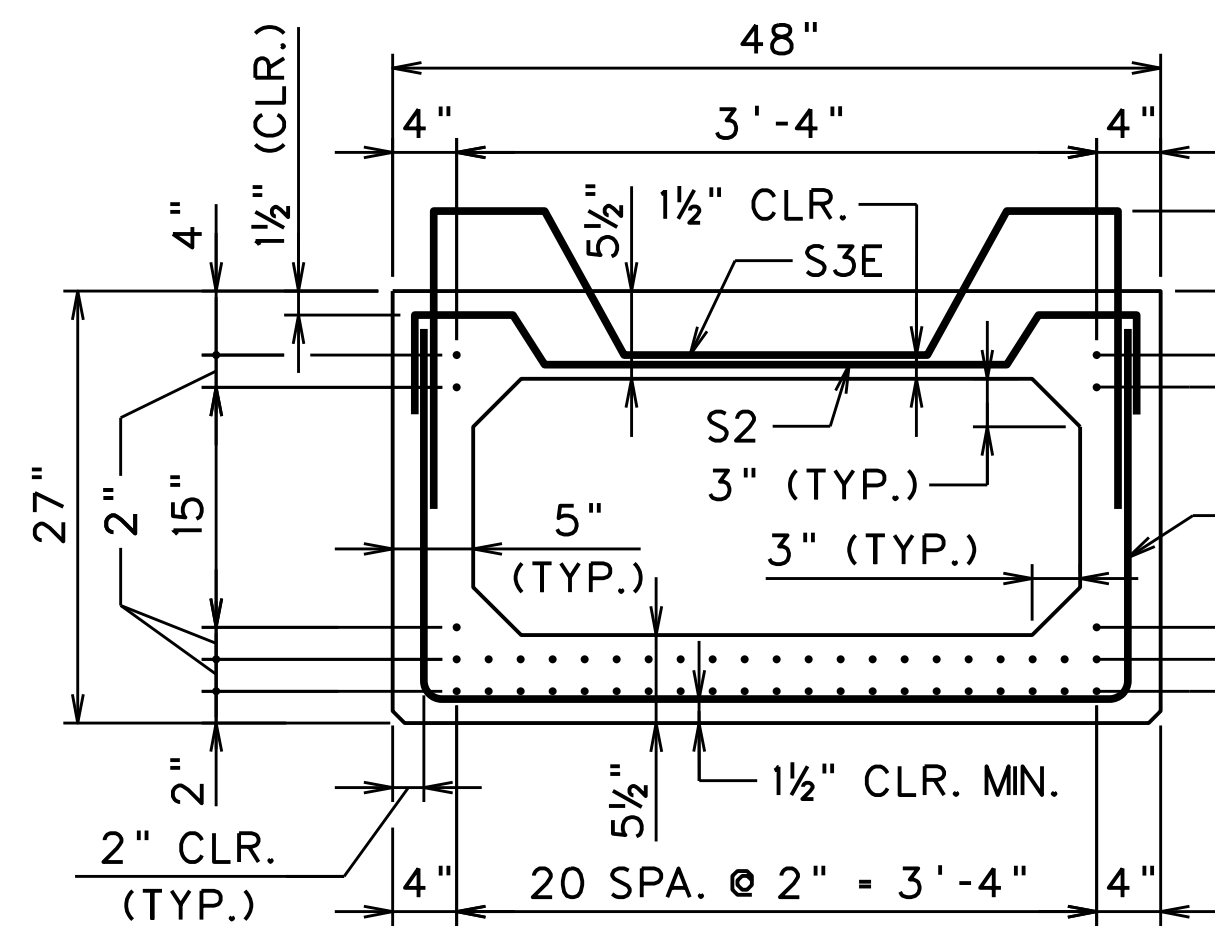
LIFTING LOOP BLOCKOUT DETAILS
N.T.S.



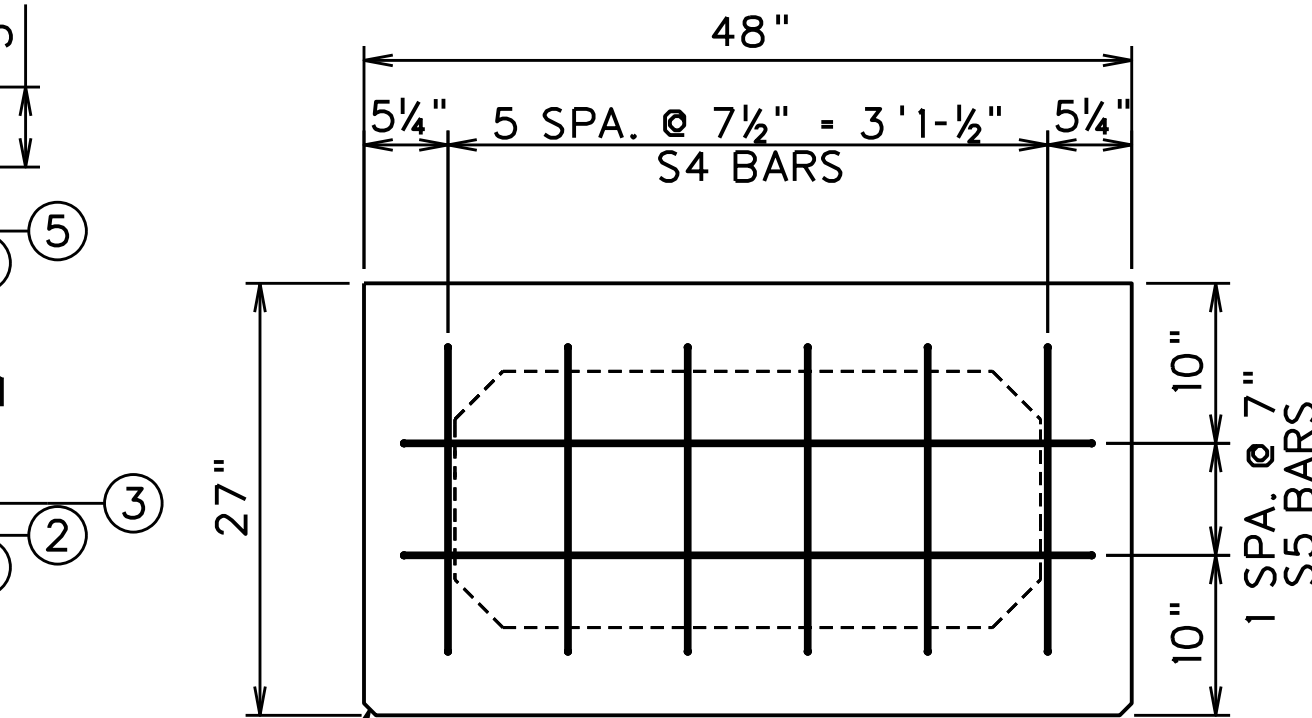
SHEAR REINFORCEMENT DETAIL
SKEWED BEAMS (15° SKEW OR GREATER)
N.T.S.



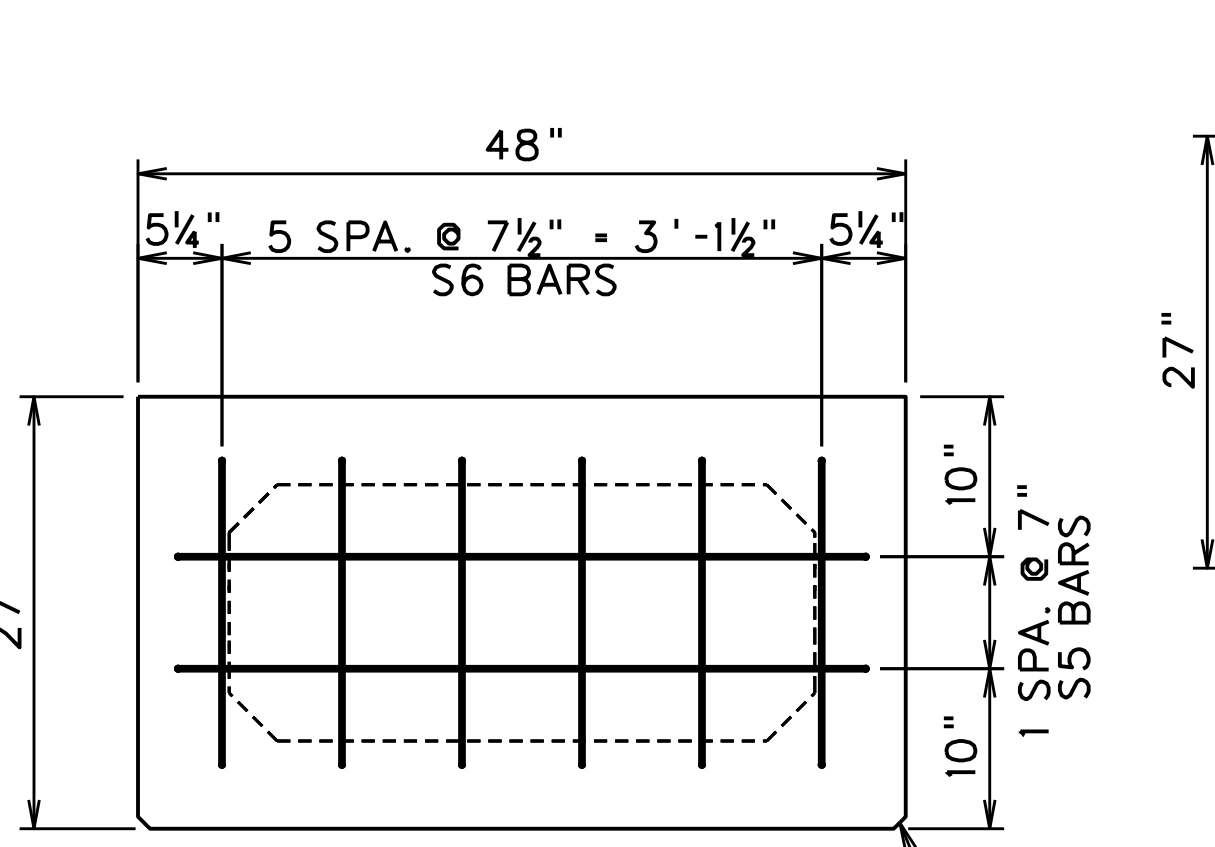
THREADED BAR DETAIL
N.T.S.



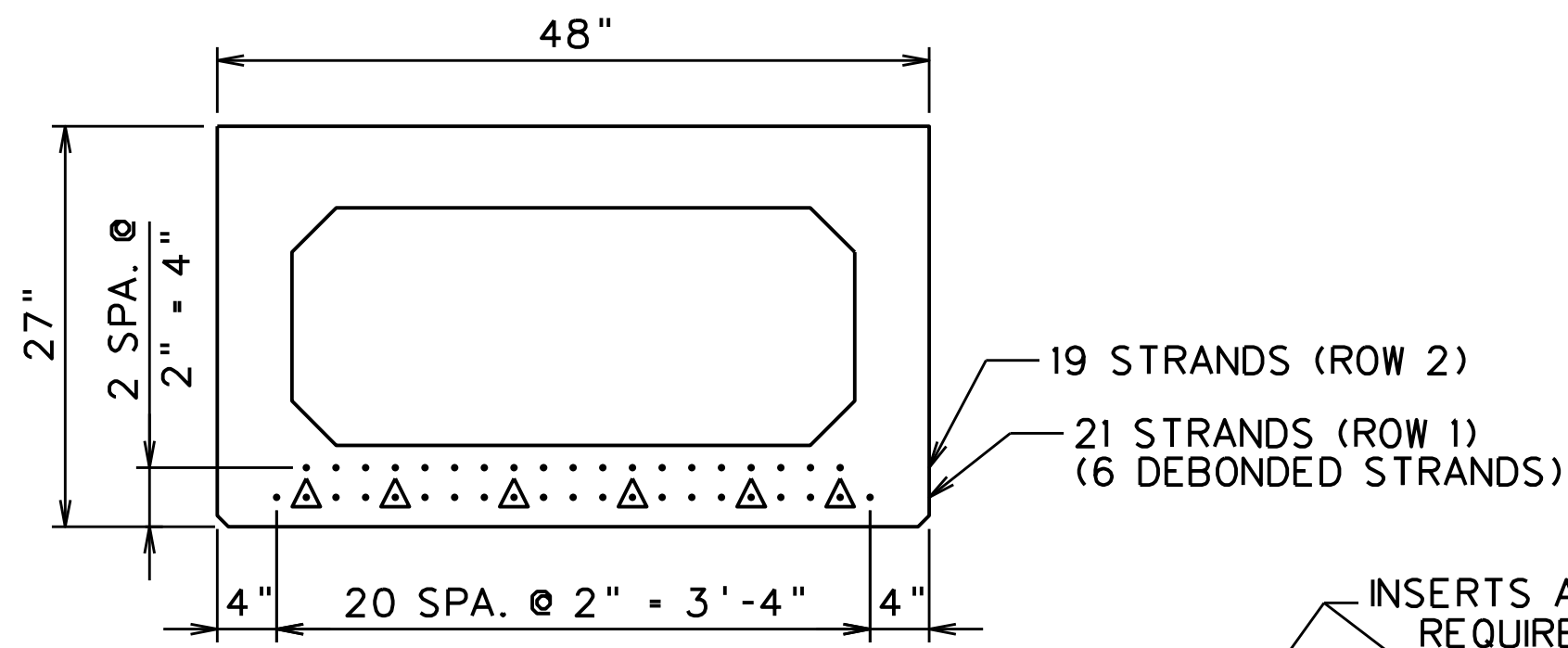
SECTION A-A
N.T.S.



SECTION B-B
N.T.S.

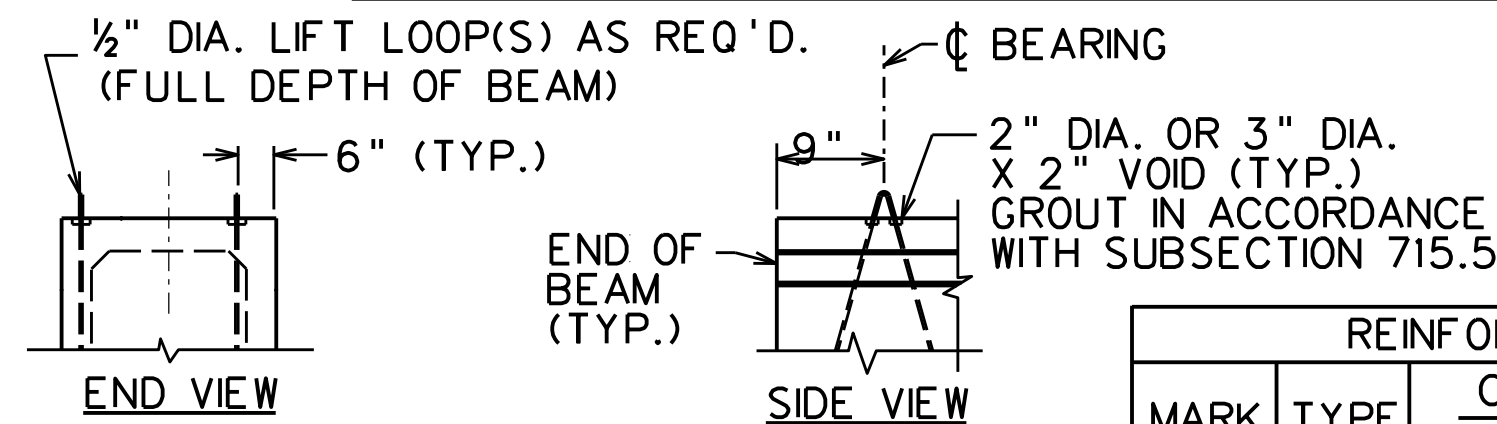


SECTION C-C
N.T.S.



STRAND POSITIONS & DEBONDED STRANDS
N.T.S.

▲ DENOTES DEBONDED STRAND



NOTE: LIFTING LOOPS SHALL NOT BE EPOXY COATED. ON SKEWED BEAMS LIFTING DEVICES SHALL BE LOCATED IN A LINE TRANSVERSE TO THE CENTERLINE OF BEAM.

LIFTS DETAILS
N.T.S.

BEAM DIMENSIONS (MEASURED ALONG C BEAM)																		APPROX. WEIGHT EACH (LB)
MARK	NO. REQ'D.	DIMENSIONS																
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	
B-1 TO B-5	1 EA.	63'-6 5/8"	31'-9 5/8"	6"	3'-0"	3"	10"	4"	3'-4"	4"	12"	4'-0"	29"	1'-8"	47'-4"	-	-	46,700

DEBONDING OF STRANDS			
GROUP	NUMBER OF STRANDS EA. GROUP	HEIGHT OF STRAND	SHIELDING LENGTH FROM EA. BM. END
1	2	2"	2'-0"
1	4	2"	4'-0"

REINFORCING BAR LIST				
MARK	TYPE	COUNT/BEAM		LENGTH
		A1,B1,C1	A2,B2,C2	
S1	BENT	56	-	7'-5"
S2	BENT	56	-	5'-8 3/4"
S3E	BENT	56	-	8'-7 5/8"
S4	BENT	24	-	5'-9"
S5	BENT	8	-	7'-7"
S6	BENT	24	-	5'-9"
S7	BENT	8	-	7'-7"

NUMBER OF 1/2" DIA. - 7 WIRE STRANDS IN INDICATED ROW							DESIGNED	DATE			
MARK	BOTTOM					TOTAL NO. PER BEAM	CONCRETE STRENGTH (PSI)		INITIAL PRESTRESS FORCE/STRAND (LB)	DRWN	DATE
	①	②	③	④	⑤		f'ci	f'c		JAP	JUN 2020
B-1 TO B-5	21	17	-	-	-	40	6,000	8,000	30,983	CHECKED	JUN 2020
										CHECKED	JUN 2020

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

VAN VOORHIS ROAD BRIDGE

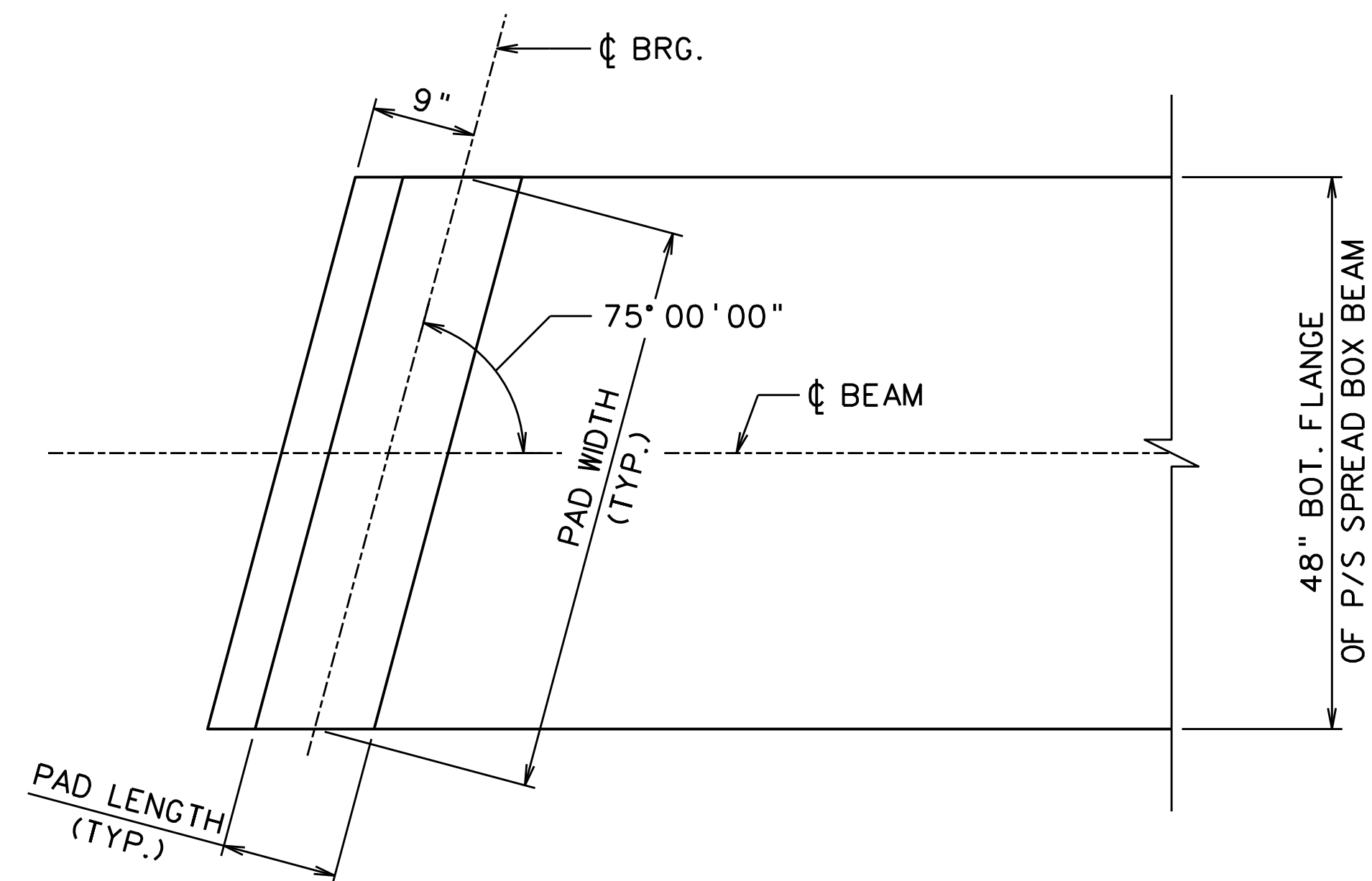
BOX BEAM DETAILS

AMT
A. MORTON THOMAS AND ASSOCIATES, INC.
417 GRAND PARK DRIVE, SUITE 102
PARKERSBURG, WV 26105

REVISION NUMBER SHEET NUMBER REVISION DATE BY

DESIGNED GCD JUN 2020
DRAWN JAP JUN 2020
CHECKED KAR JUN 2020
CHECKED KAR JUN 2020

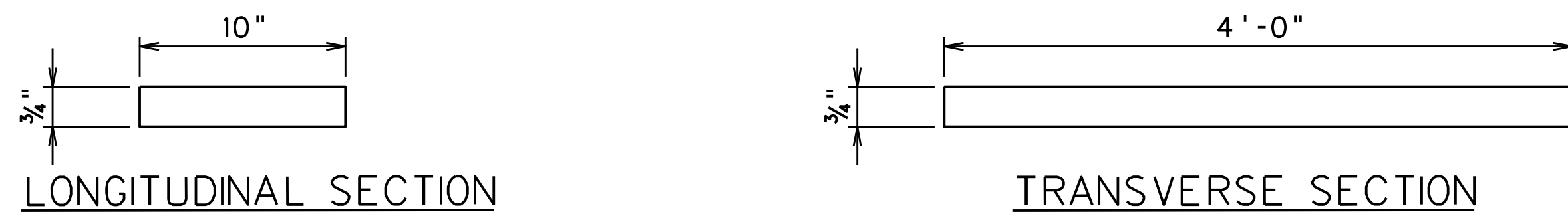
SHEET 11 of 16
BRIDGE NO. 11618



ELASTOMERIC BEARING PAD PLAN

SCALE: 1"=1'-0"

SERVICE BEARING LOADS (K)
DL
77.97



ELASTOMERIC BEARING PAD SECTIONS

NOT TO SCALE

ELASTOMERIC BEARINGS					
LOCATION	TYPE	PAD WIDTH	PAD LENGTH	PAD THICKNESS	TOTAL NUMBER REQ'D
ABUTMENT 1	INTEGRAL	4'-0"	10"	3/4"	5
ABUTMENT 2	INTEGRAL	4'-0"	10"	3/4"	5

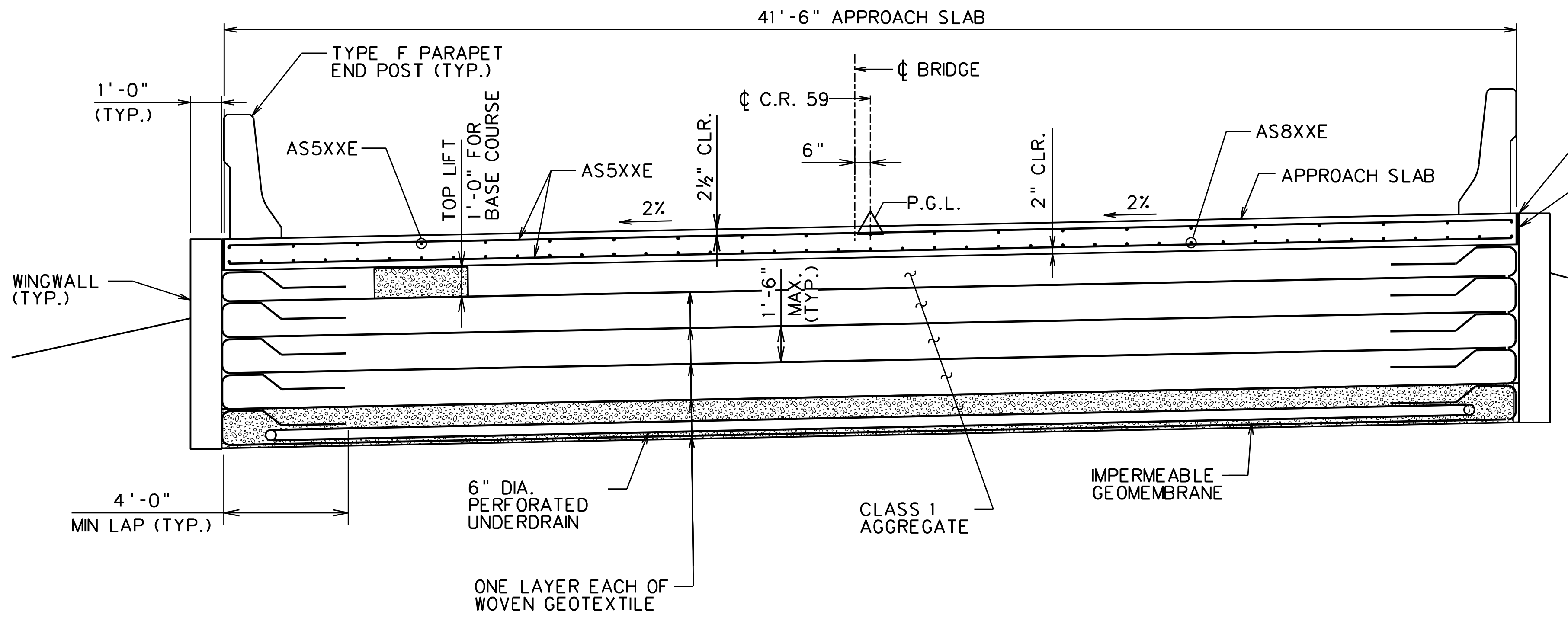
NOTES:

1. THE BEARING SHALL BE LOW TEMPERATURE GRADE 3, 50 DUROMETER AND HAVE A SHEAR MODULUS BETWEEN 0.080 AND 0.175 KSI. IT SHALL CONFORM TO THE REQUIREMENTS OF SECTION 18.2 OF THE AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS AND AASHTO M251, CORRESPONDING TO DESIGN METHOD A.
2. INSTALL BEAMS AND BEARINGS TO ENSURE FULL CONTACT WITH BEARING SURFACES. IF FULL CONTACT IS NOT ACHIEVED AFTER THE DECK IS IN PLACE, FIELD ADJUSTMENTS OR MODIFICATIONS WILL BE MADE BY THE CONTRACTOR TO ENSURE FULL CONTACT AND IS SUBJECT TO APPROVAL OF THE ENGINEER.

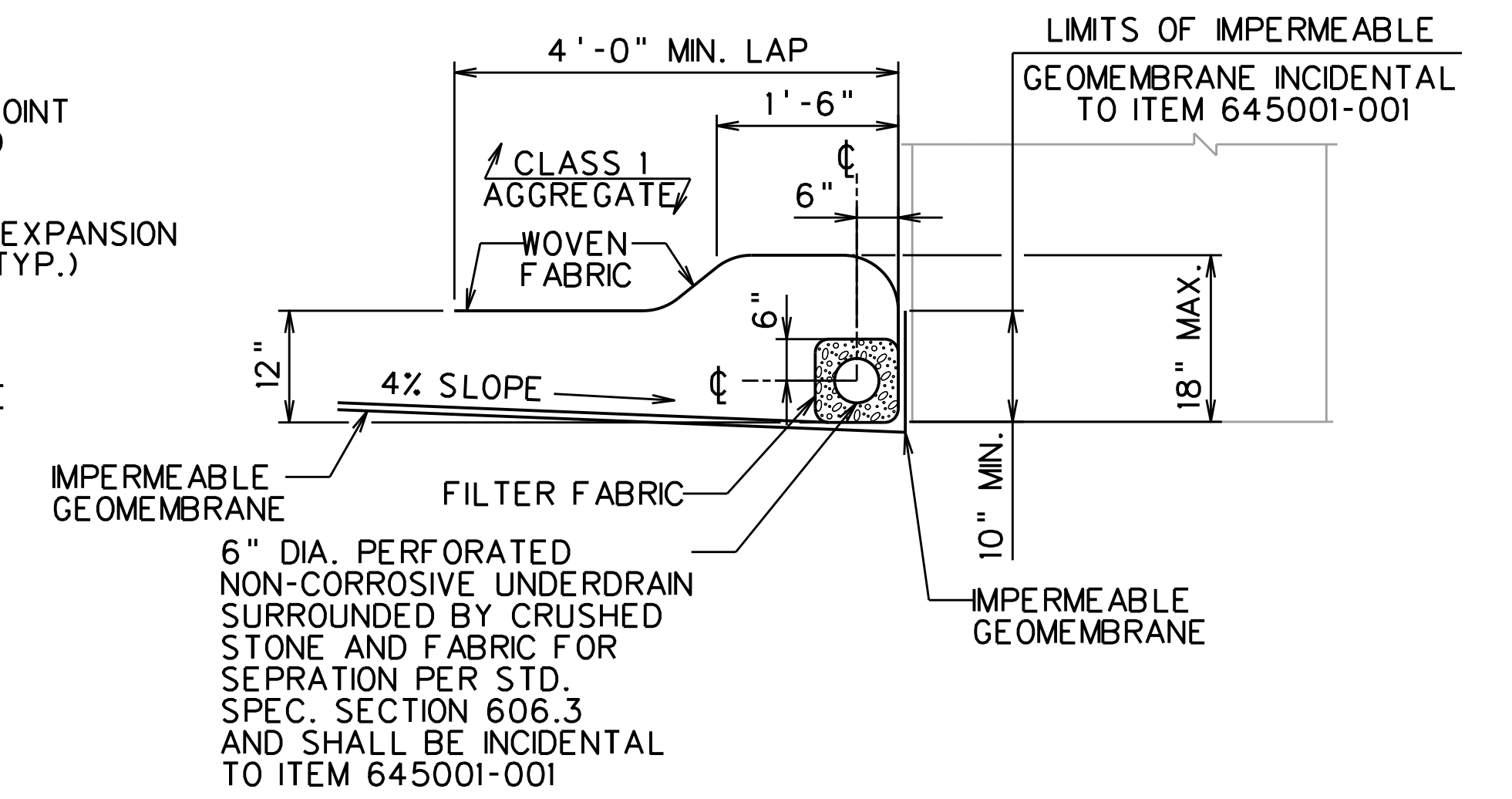
DESIGNED	DATE
GCD	JUN 2020
DRAWN	DATE
JAP	JUN 2020
CHECKED	DATE
KAR	JUN 2020
CHECKED	DATE
KAR	JUN 2020

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY
<p>THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS</p> <p>VAN VOORHIS ROAD BRIDGE</p> <p>BEARING DETAILS</p>				
				<p>SHEET 12 of 16</p>
<p>A. MORTON THOMAS AND ASSOCIATES, INC. 417 GRAND PARK DRIVE, SUITE 102 PARKERSBURG, WV 26105</p>				<p>BRIDGE NO. 11618</p>

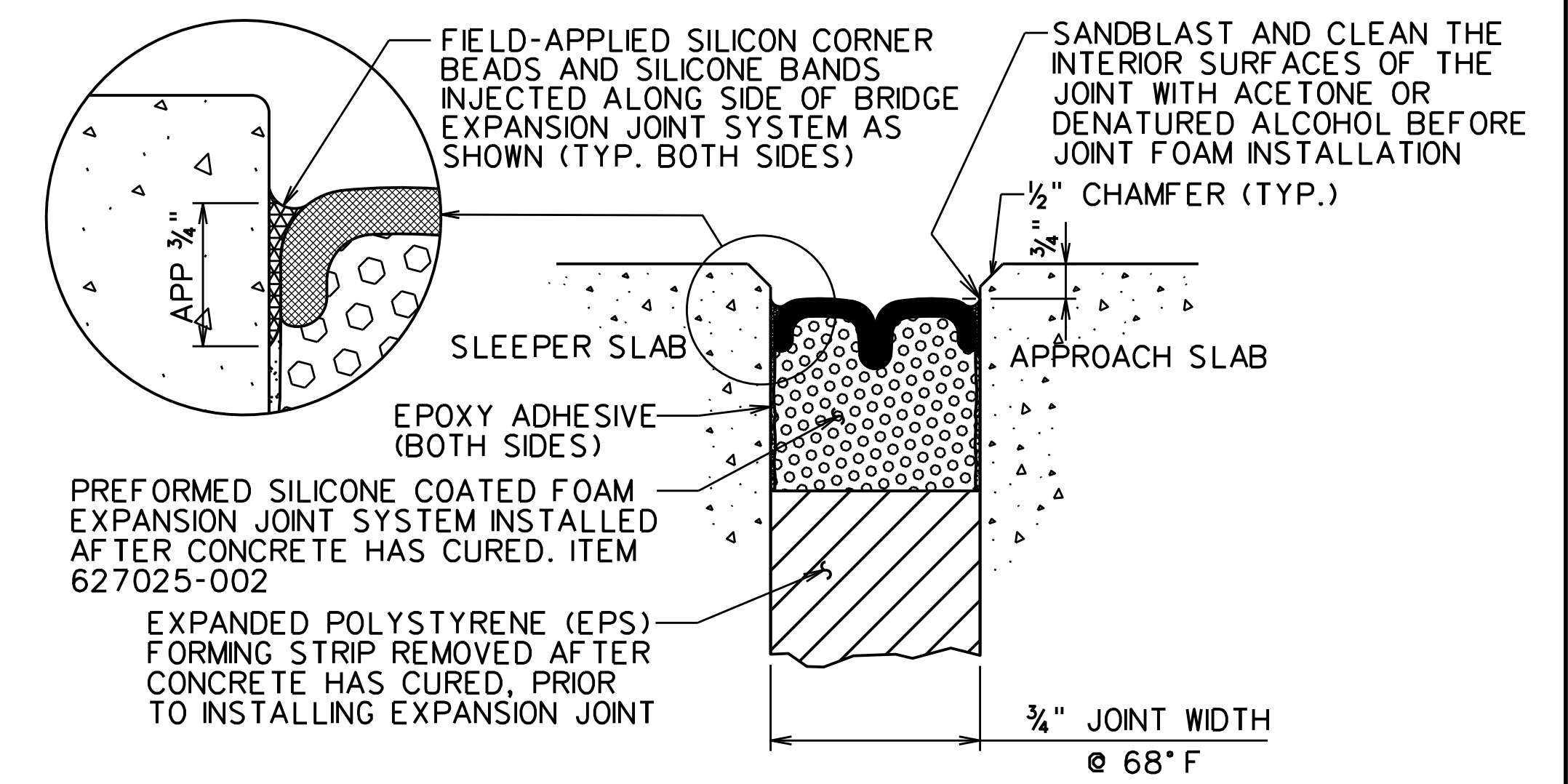
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00 00	NFA-2317 (023)D	2020	MONONGALIA	237	301



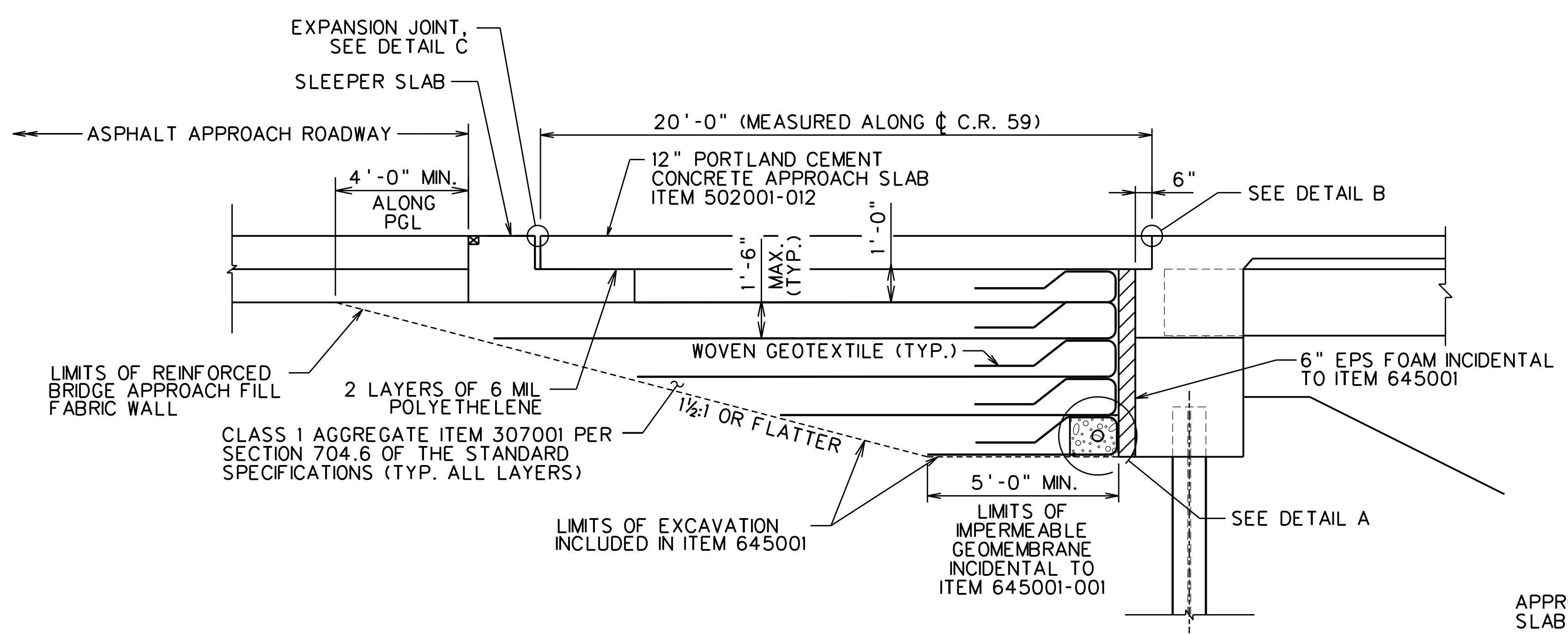
APPROACH SLAB TRANSVERSE SECTION
SCALE: 3/8" = 1'-0"



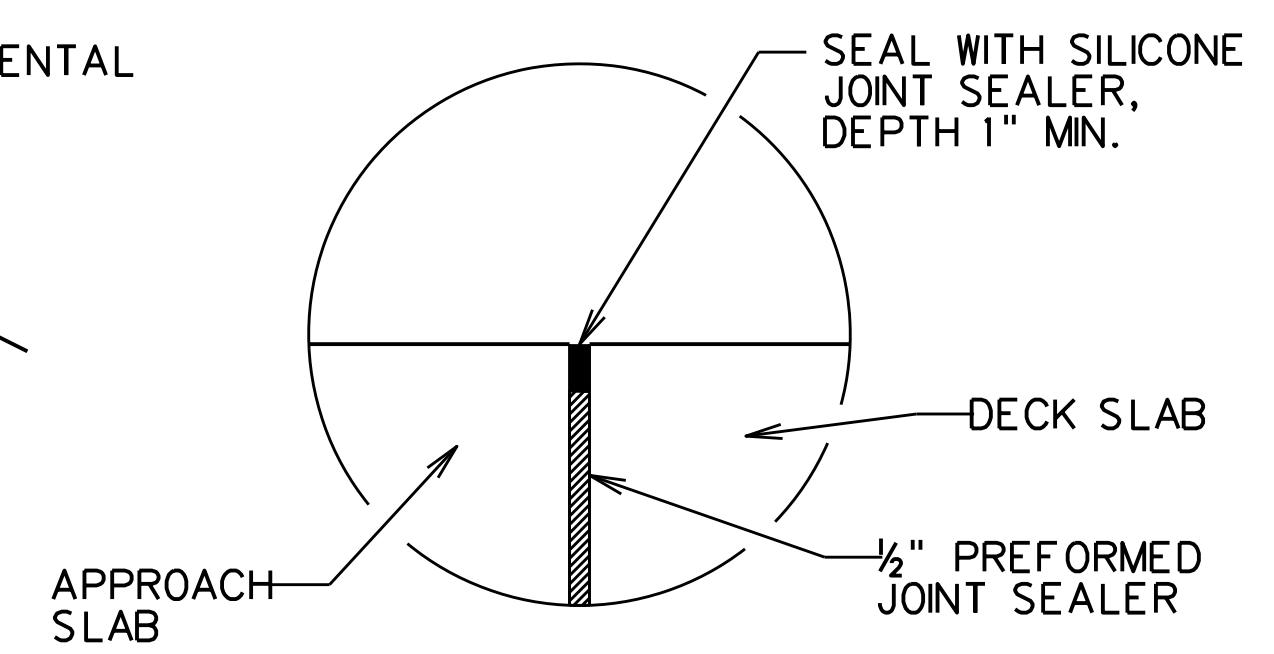
DETAIL A
NOT TO SCALE



DETAIL C
NOT TO SCALE



APPROACH SLAB LONGITUDINAL SECTION
SCALE: 3/8" = 1'-0"



DETAIL B
NOT TO SCALE

DESIGNED	GCD	DATE	JUN 2020
DRAWN	JAP	DATE	JUN 2020
CHECKED	KAR	DATE	JUN 2020
CHECKED	KAR	DATE	JUN 2020

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

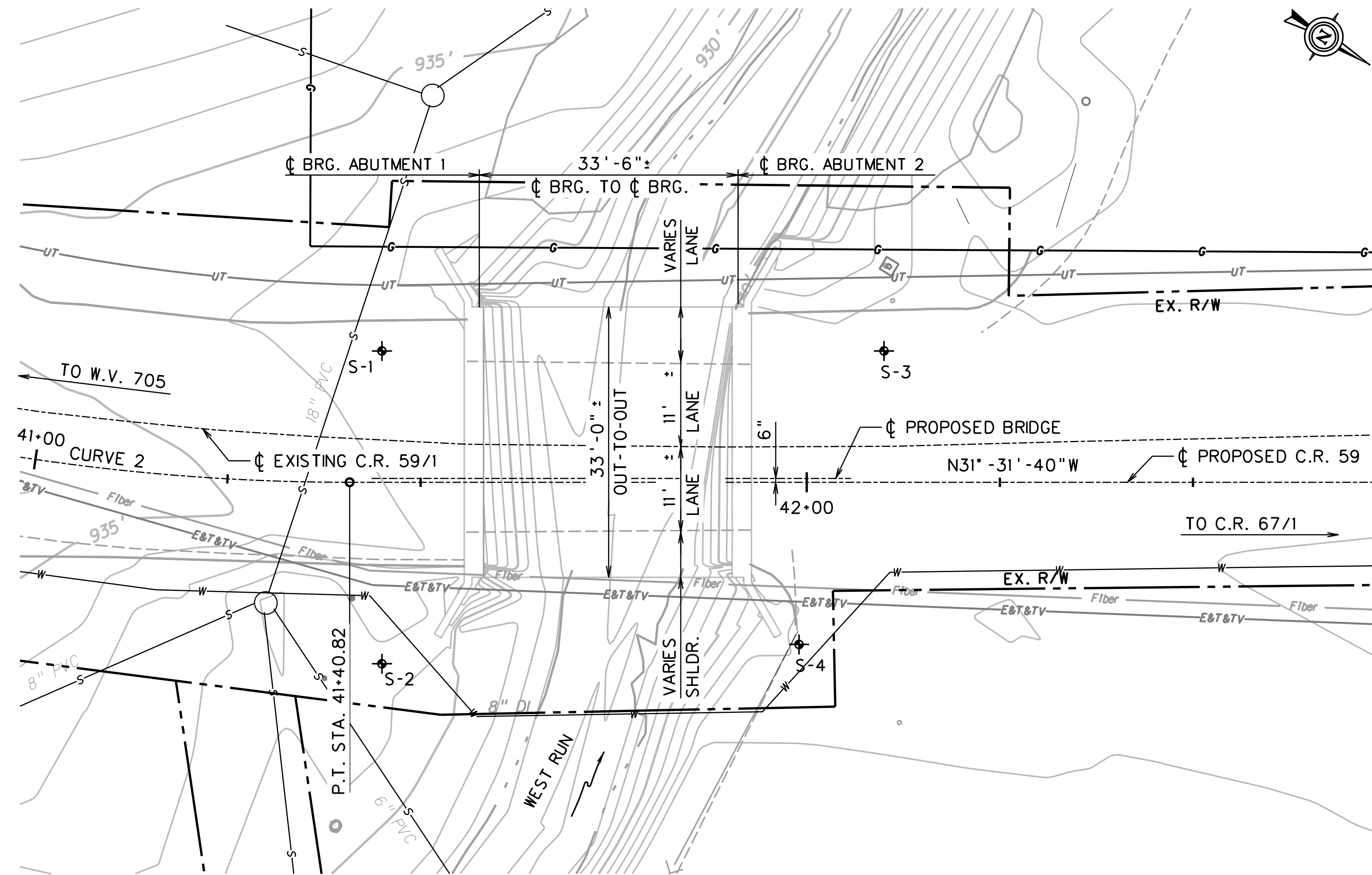
VAN VOORHIS ROAD BRIDGE APPROACH SLAB DETAILS

AMT A. MORTON THOMAS AND ASSOCIATES, INC.
417 GRAND PARK DRIVE, SUITE 102
PARKERSBURG, WV 26105

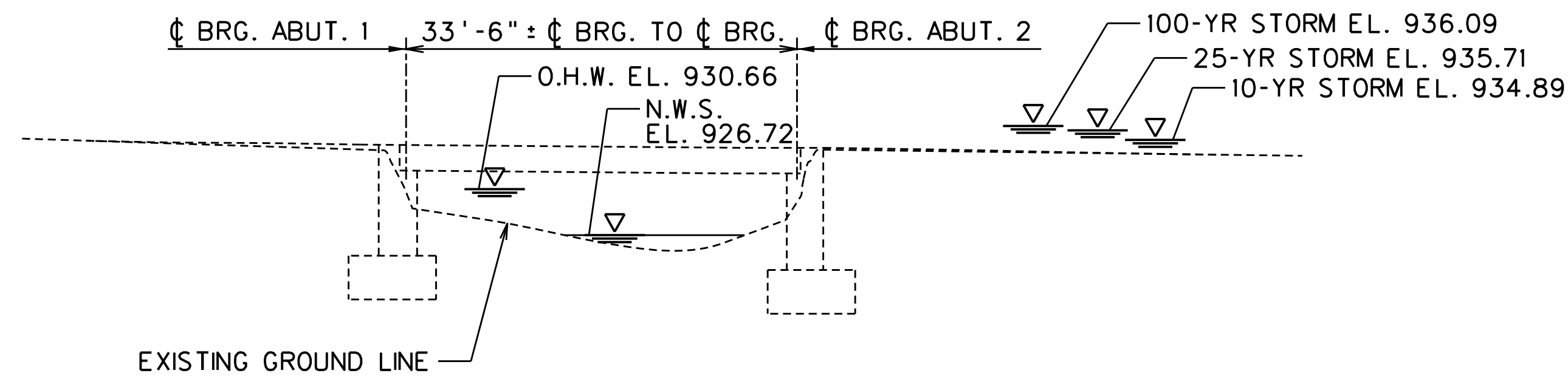
SHEET 13 of 16
BRIDGE NO. 11618

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
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BORING LOCATIONS TABLE				
NO.	STATION	OFFSET	NORTHING	EASTING
S-1	41+45	17' LT.	425523.4717	1839484.8279
S-2	41+45	23.5' RT.	425544.6497	1839519.3495
S-3	42+10	17' LT.	425578.8768	1839450.8385
S-4	41+99	21' RT.	425589.3712	1839488.9812



PLAN VIEW
SCALE: 1"=10'-0"



ELEVATION VIEW ALONG C.R. 59
SCALE: 1"=10'-0"

**WEST RUN
HYDRAULIC DATA**

DRAINAGE AREA : 6.92 SQ. MILES

HYDRAULIC OPENING: 136.28 S.F.

DESIGN FLOOD : FREQUENCY - 10 YEARS
MAGNITUDE - 1,187 CFS
VELOCITY - 4.05 FPS
WATER EL. - 934.89

DESIGN FLOOD : FREQUENCY - 25 YEARS
MAGNITUDE - 1,739 CFS
VELOCITY - 3.71 FPS
DESIGN FLOOD : WATER EL. - 935.71

FREQUENCY - 100 YEARS
MAGNITUDE - 2,781 CFS
VELOCITY - 5.36 FPS
WATER EL. - 936.09

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

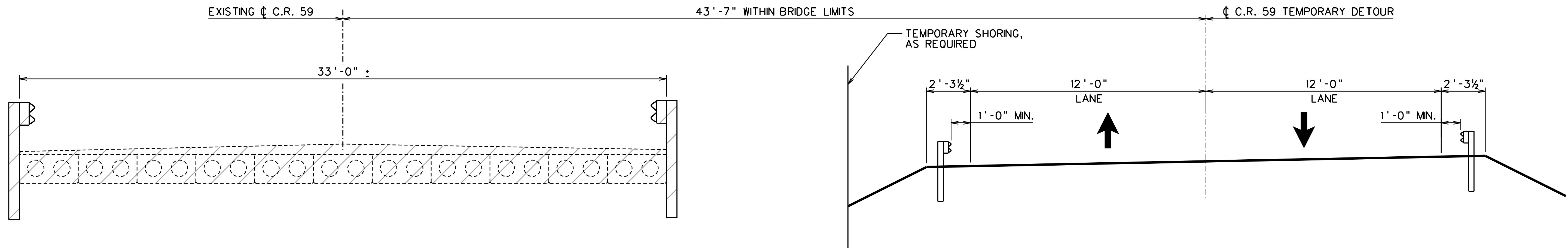
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**VAN VOORHIS
ROAD BRIDGE**
EXISTING CONDITIONS

DESIGNED	DATE
GCD	JUN 2020
DRAWN	DATE
JAP	JUN 2020
CHECKED	DATE
KAR	JUN 2020
CHECKED	DATE
KAR	JUN 2020

AMT A. MORTON THOMAS AND ASSOCIATES, INC.
417 GRAND PARK DRIVE, SUITE 102
PARKERSBURG, WV 26105

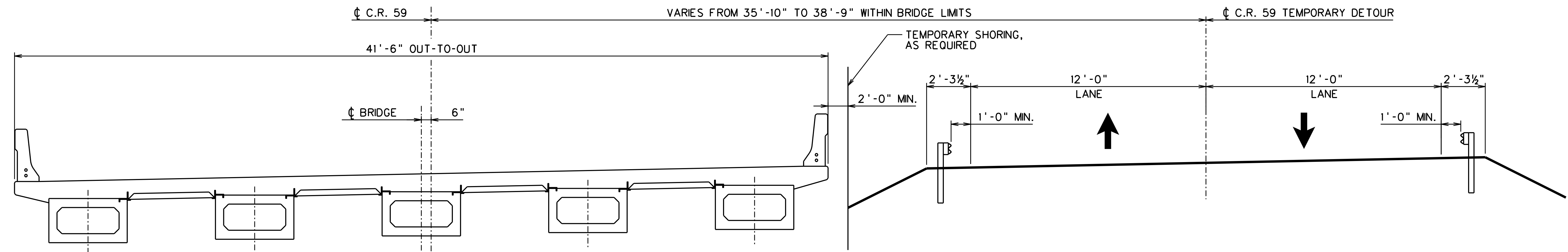
SHEET
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BRIDGE NO.
11618

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
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DEMOLITION - TYPICAL SECTION

LOOKING AHEAD STATION
SCALE: 3/8" = 1'-0"

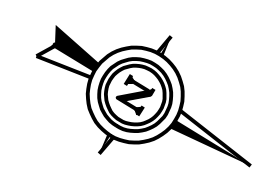


CONSTRUCTION - TYPICAL SECTION

LOOKING AHEAD STATION
SCALE: 3/8" = 1'-0"

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS VAN VOORHIS ROAD BRIDGE CONSTRUCTION SEQUENCE				
DESIGNED GCD	DATE JUN 2020	 AMT <small>A. MORTON THOMAS AND ASSOCIATES, INC. 417 GRAND PARK DRIVE, SUITE 102 PARKERSBURG, WV 26105</small>		
DRAWN JAP	DATE JUN 2020			
CHECKED KAR	DATE JUN 2020			
CHECKED KAR	DATE JUN 2020			
SHEET 15 of 16		BRIDGE NO. 11618		

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-59-0.00-00	NFA-2317 (023)D	2020	MONONGALIA	240	301



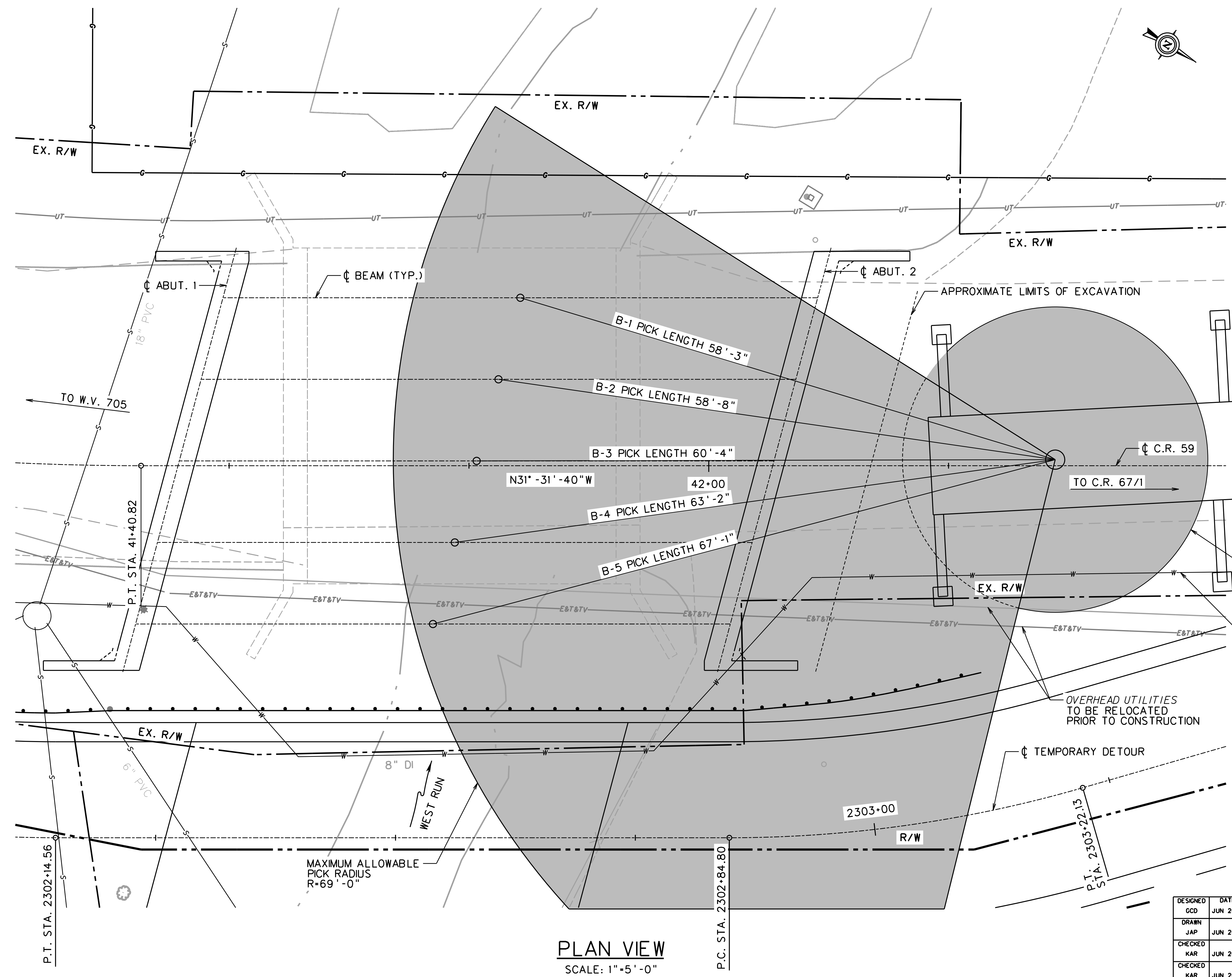
PICK INFORMATION:
 27"x48" P/S BOX BEAM
 PICK WEIGHT = 60.00K
 OR 30.0 TON

(INCLUDED 1.25 INCREASE FOR MISCELLANEOUS WEIGHT AND FACTOR OF SAFETY)

MAXIMUM ALLOWABLE PICK RADIUS = 69.0 FT.

CRANE INFORMATION:
 LIEBHERR LTM 1220-5.2 (265 TON)

CRANE INFORMATION:
 163.10 K COUNTERWEIGHT
 BOOM LENGTH = 86.0 FT.
 CAPACITY = 33.0 TON OR 66.00 K



LIMIT OF CRANE TAIL SWING R=15'-11"
 WATER LINE TO BE RELOCATED PRIOR TO CONSTRUCTION
 OVERHEAD UTILITIES TO BE RELOCATED PRIOR TO CONSTRUCTION

PLAN VIEW
 SCALE: 1"=5'-0"

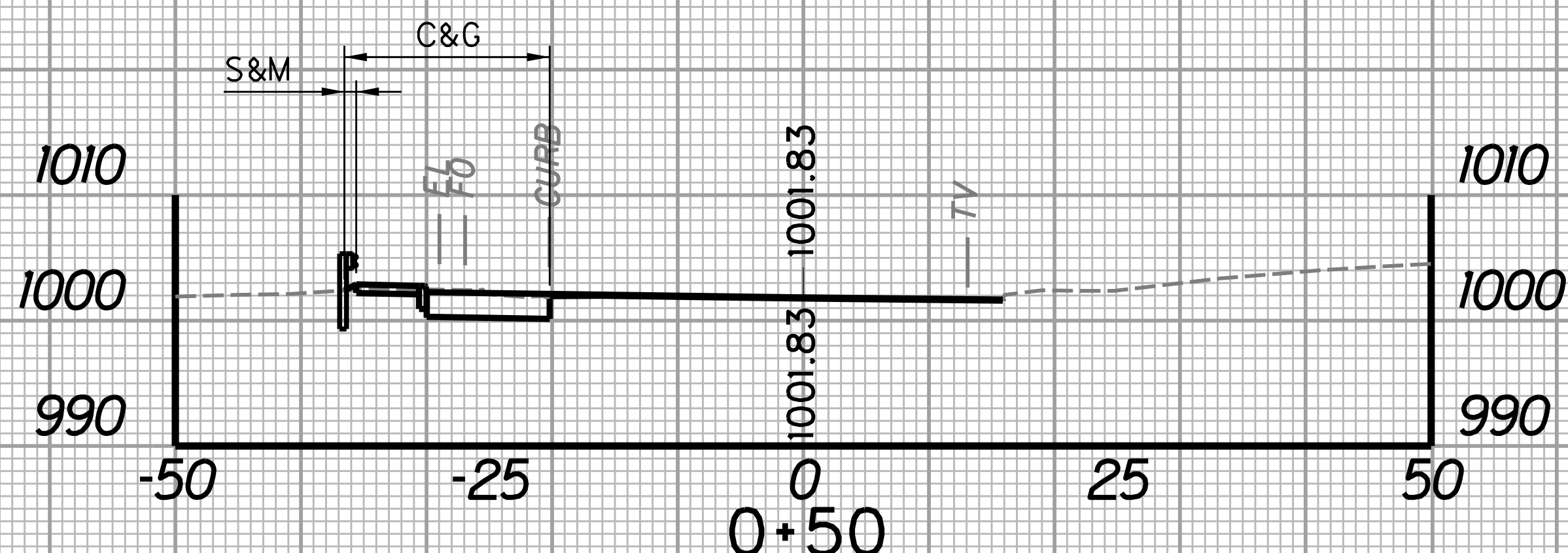
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
VAN VOORHIS ROAD BRIDGE
 ERECTION PLAN

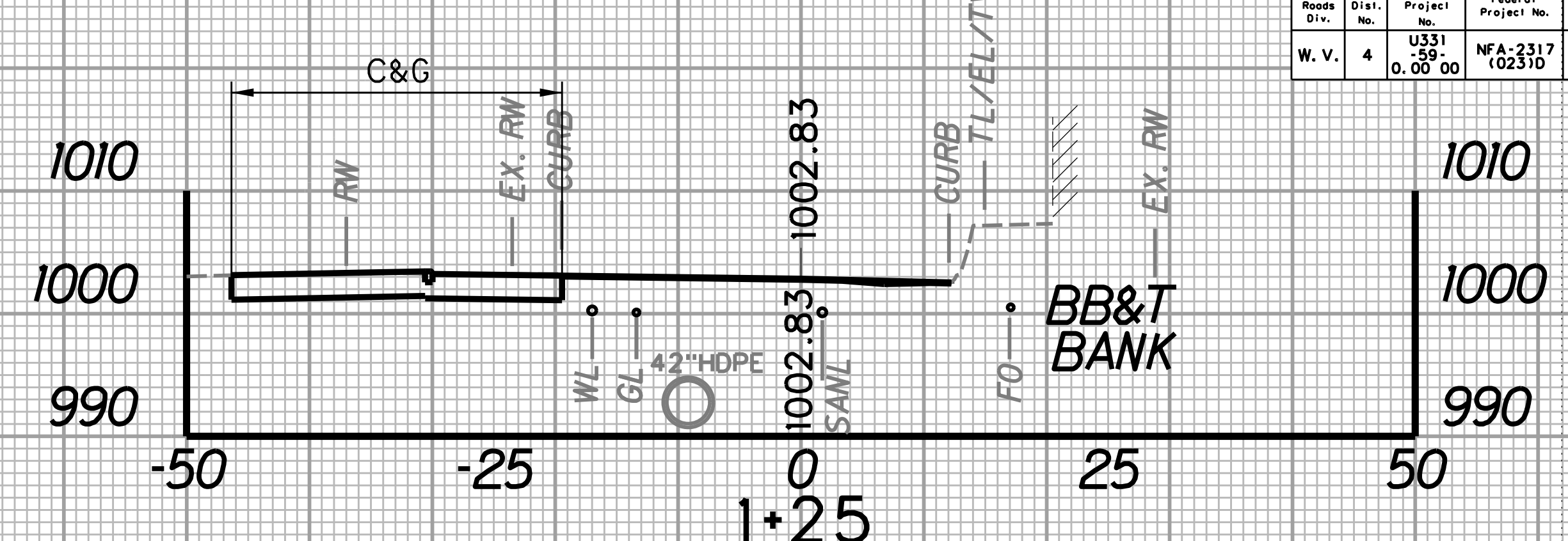
DESIGNED	GCD	DATE	JUN 2020
DRAWN	JAP	DATE	JUN 2020
CHECKED	KAR	DATE	JUN 2020
CHECKED	KAR	DATE	JUN 2020

AMT A. MORTON THOMAS AND ASSOCIATES, INC.
 417 GRAND PARK DRIVE, SUITE 102
 PARKERSBURG, WV 26105

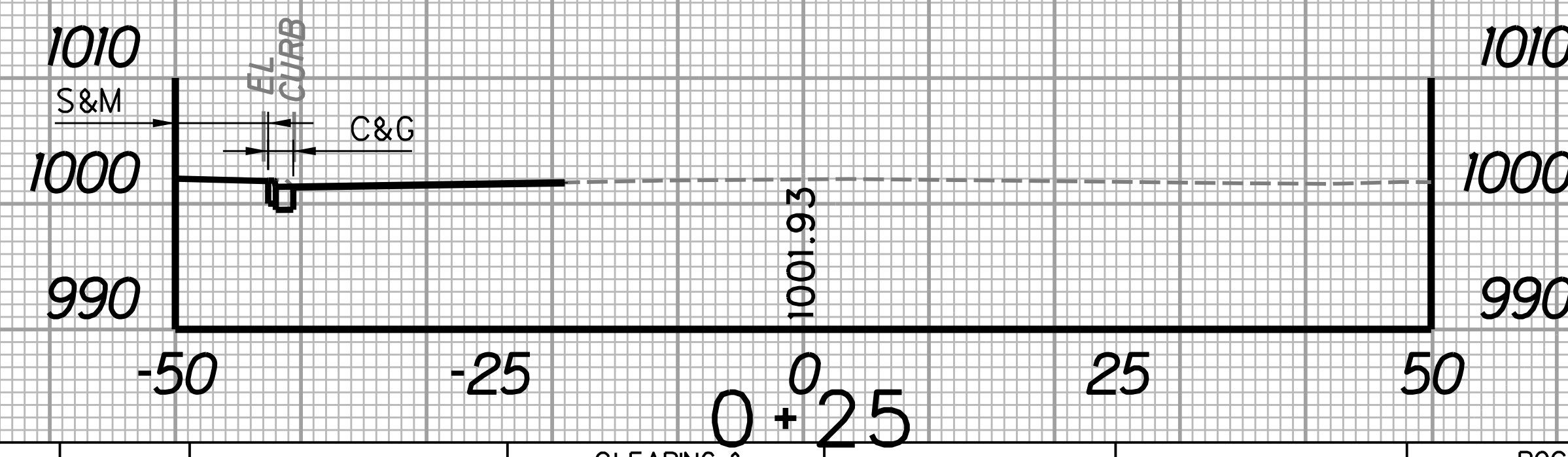
SHEET 16 of 16
 BRIDGE NO. 11618



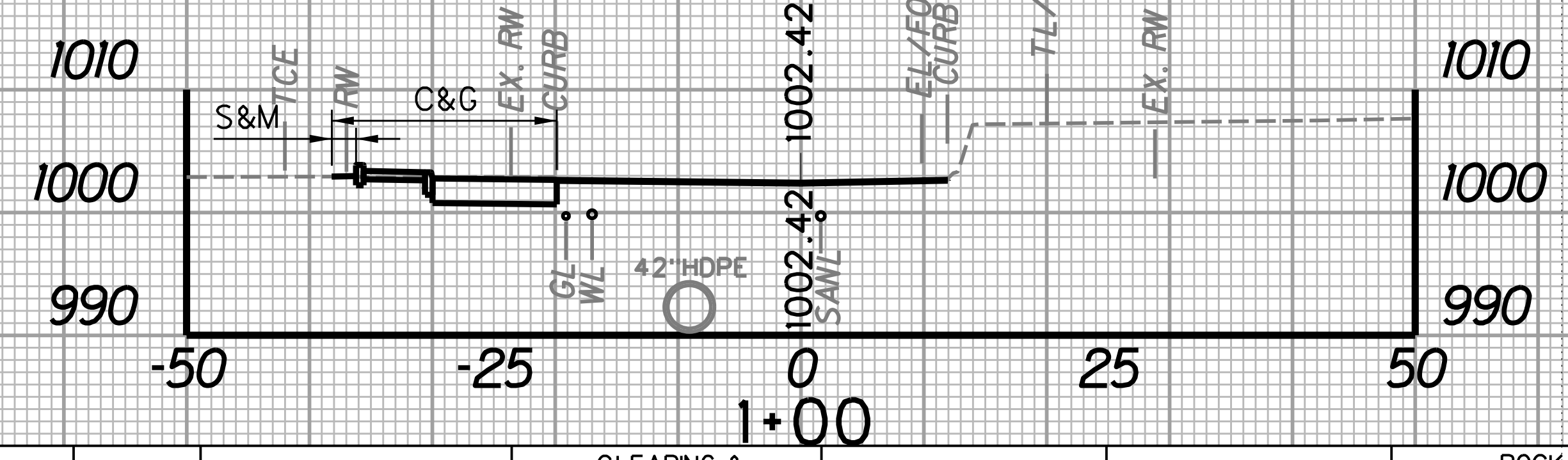
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
0+25	25	7.4	105.0	2.0	228.8	4.6	11.9	0.0	0.0	0.0	0.0
0+50	25	1.0	16.3	16.3	22.1	0.0	0.0	0.0	0.0	0.0	0.0



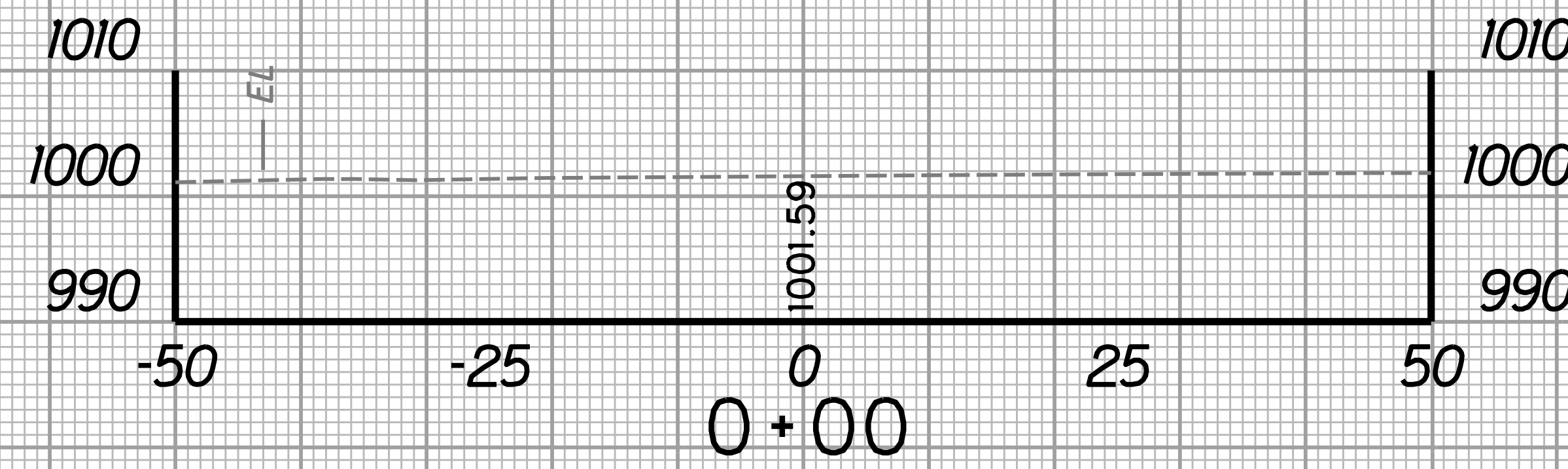
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		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
1+00	25	2.0	25.0	18.3	565.0	24.3	36.5	0.0	0.0	0.0	0.0
1+25	25	0.0	0.0	26.9	54.6	0.0	0.0	0.0	0.0	0.0	0.0



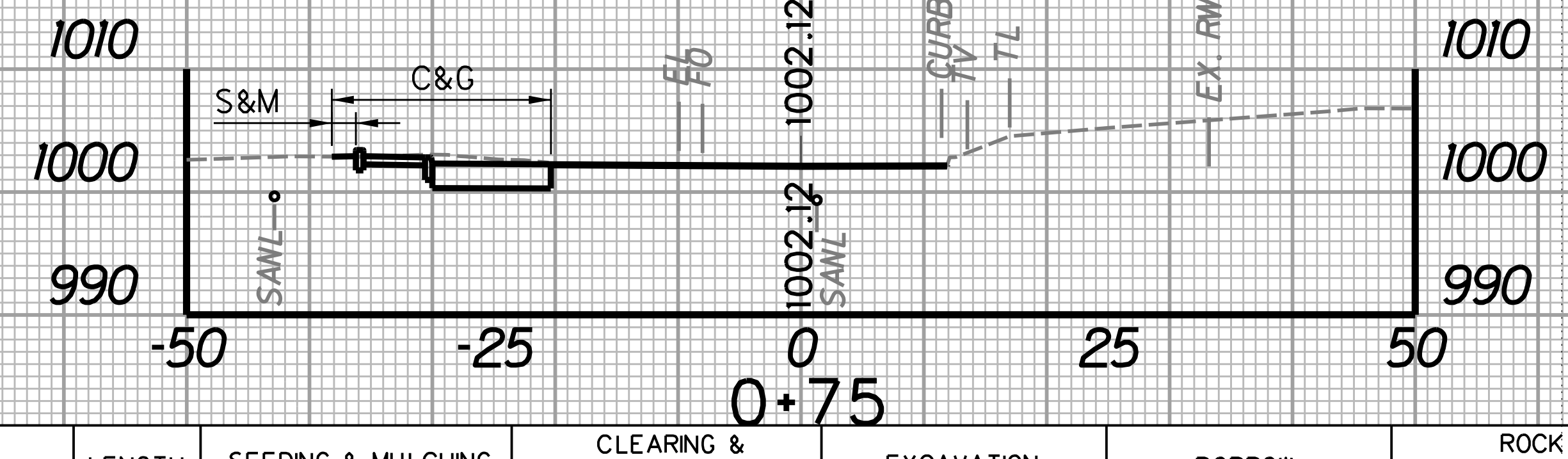
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
0+00	25	0.0	92.5	0.0	25.0	0.0	2.1	0.0	0.0	0.0	0.0
0+25	25	7.4	105.0	2.0	228.8	4.6	11.9	0.0	0.0	0.0	0.0



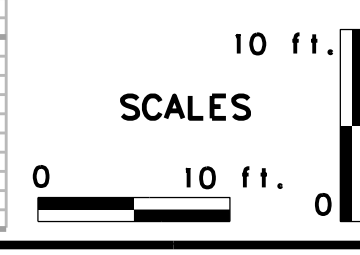
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
0+75	25	1.7	17.8	17.8	451.3	29.3	24.8	0.0	0.0	0.0	0.0
1+00	25	2.0	25.0	18.3	565.0	24.3	36.5	0.0	0.0	0.0	0.0



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
0+50	25	1.0	16.3	16.3	22.1	0.0	0.0	0.0	0.0	0.0	0.0
0+75	25	1.7	17.8	17.8	451.3	29.3	24.8	0.0	0.0	0.0	0.0

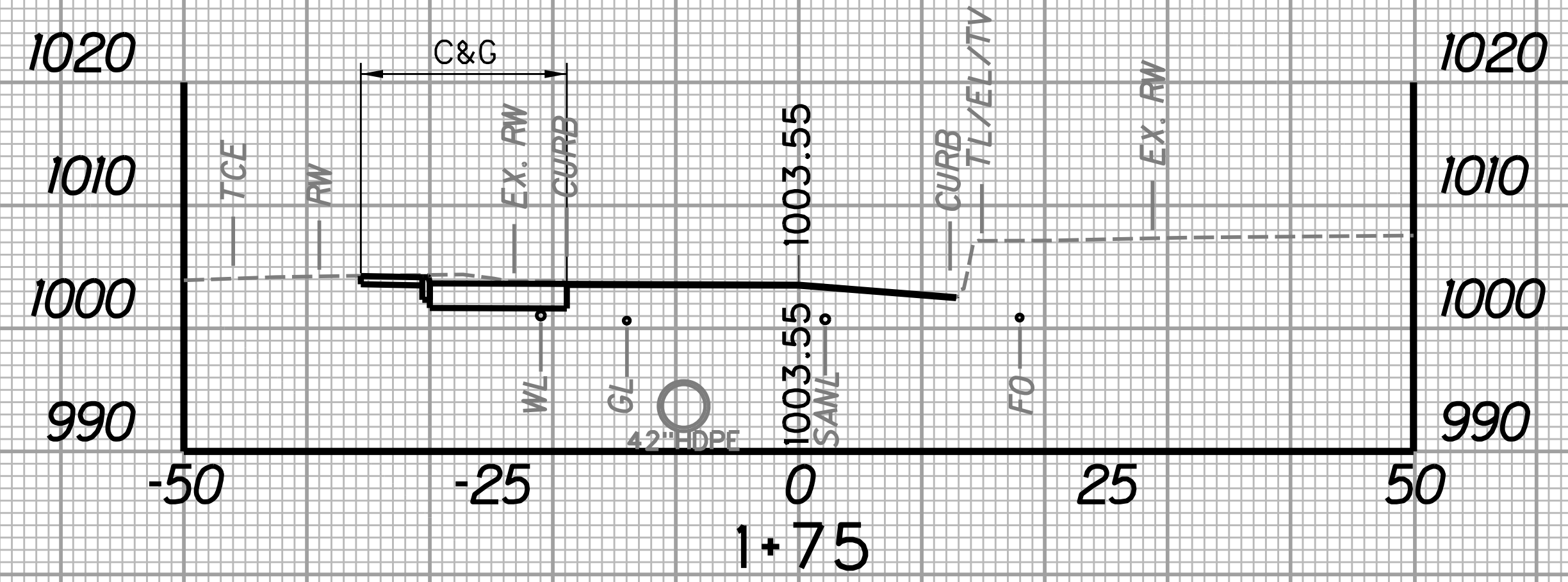


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
0+50	25	1.0	16.3	16.3	22.1	0.0	0.0	0.0	0.0	0.0	0.0
0+75	25	1.7	17.8	17.8	451.3	29.3	24.8	0.0	0.0	0.0	0.0

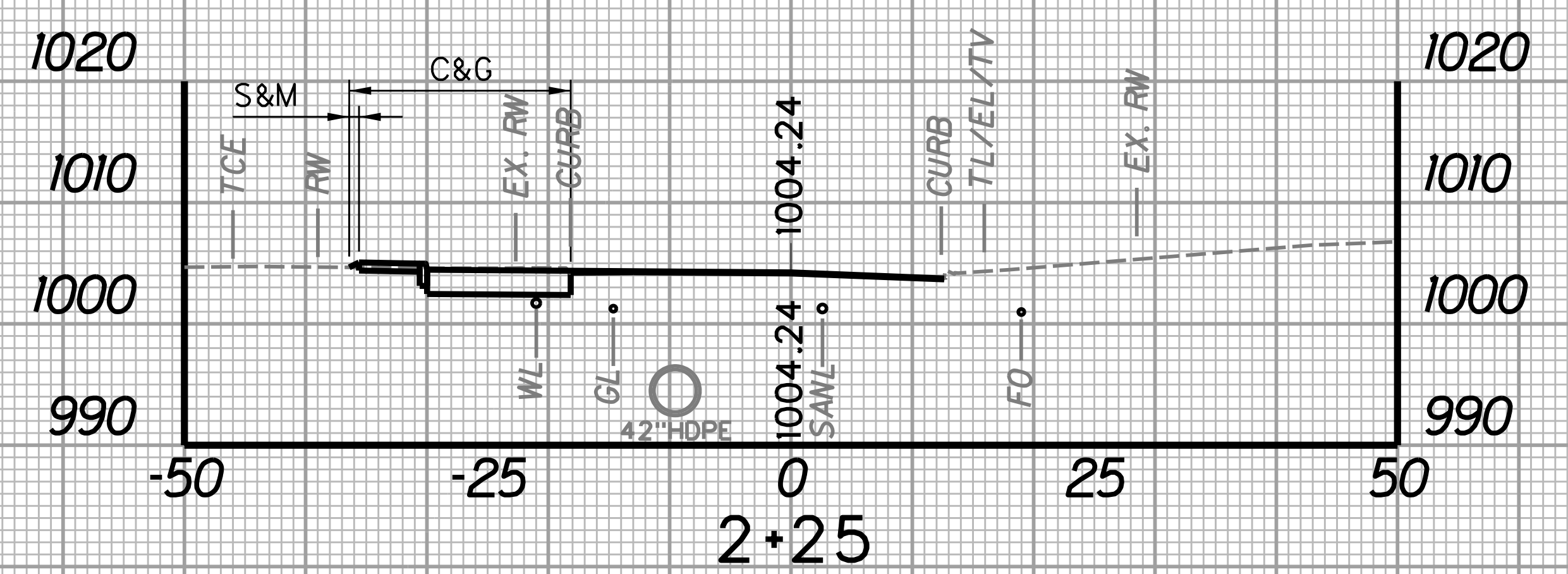


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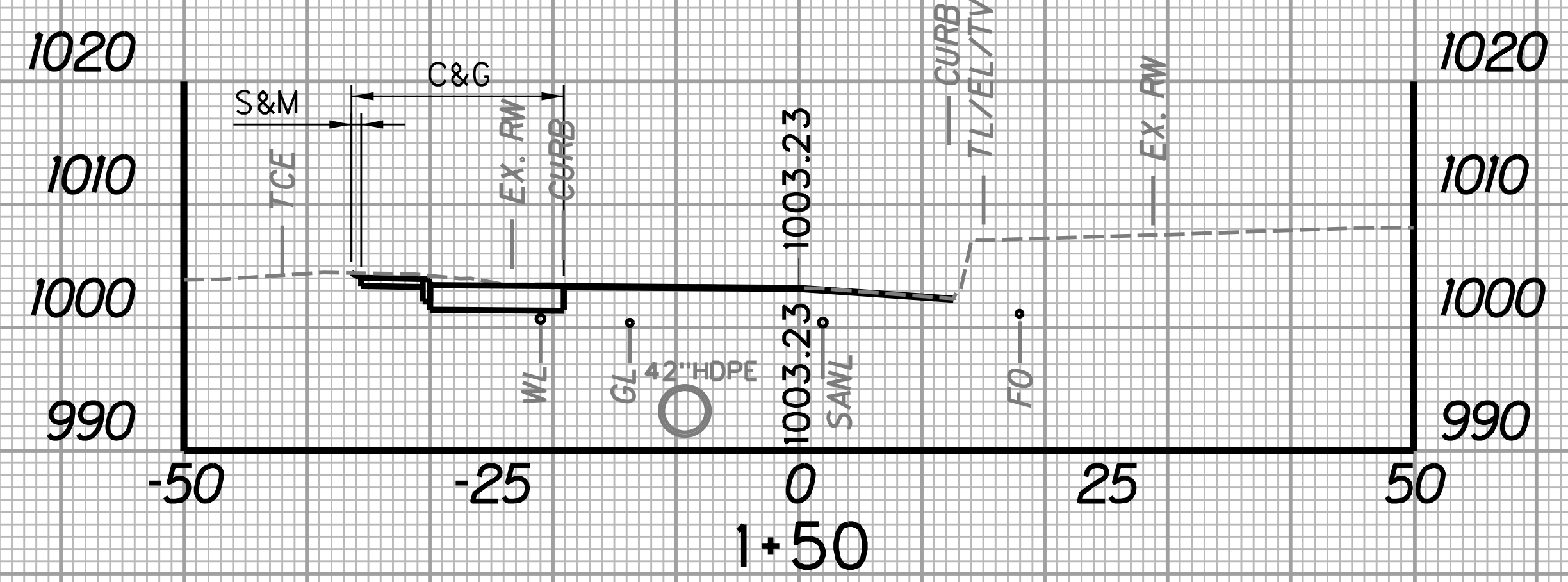
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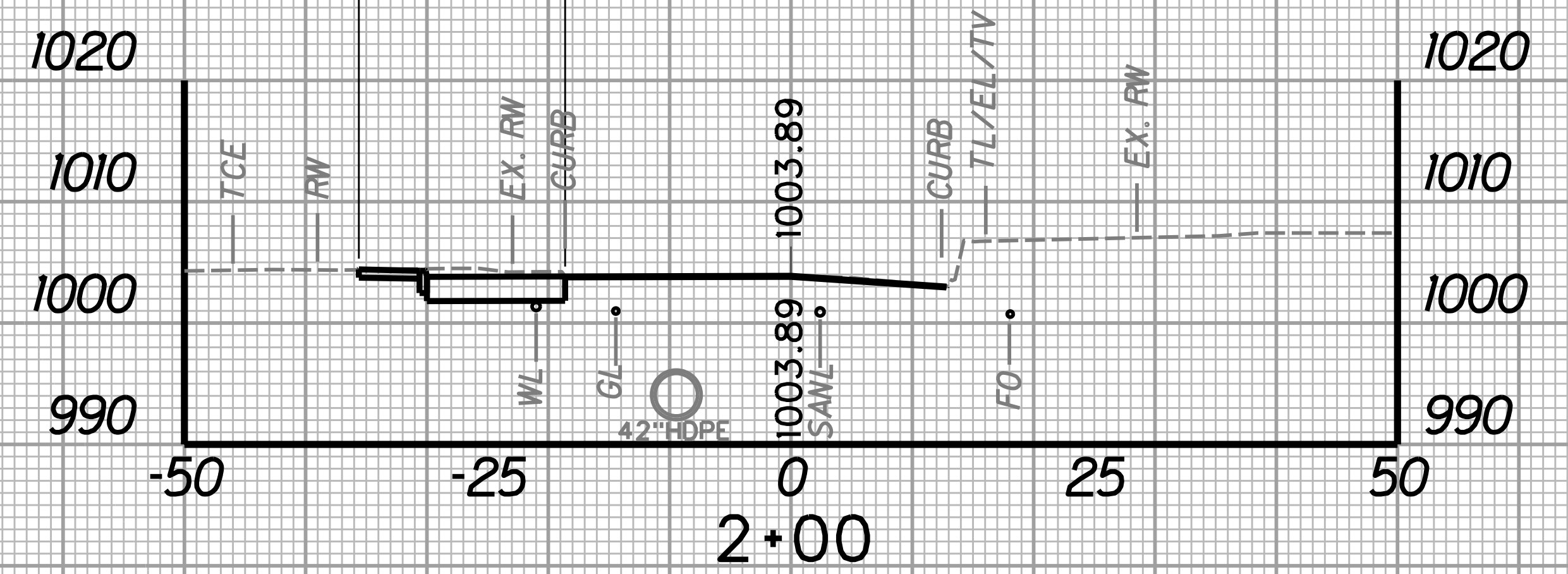
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
1+50		0.8		17.2		32.0		0.0		0.0	
	25		10.0		423.8		29.7		0.0		0.0
1+75		0.0		16.7		32.1		0.0		0.0	



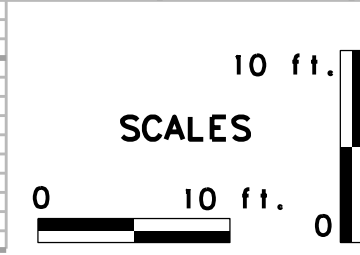
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
2+00		0.0		17.0		33.5		0.0		0.0	
	25		11.7		440.0		28.5		.1		0.0
2+25		0.9		18.2		28.0		0.2		0.0	



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
1+25		0.0		26.9		54.6		0.0		32.4	
	25		10.0		551.3		40.1		0.0		28.0
1+50		0.8		17.2		32.0		0.0		17.3	

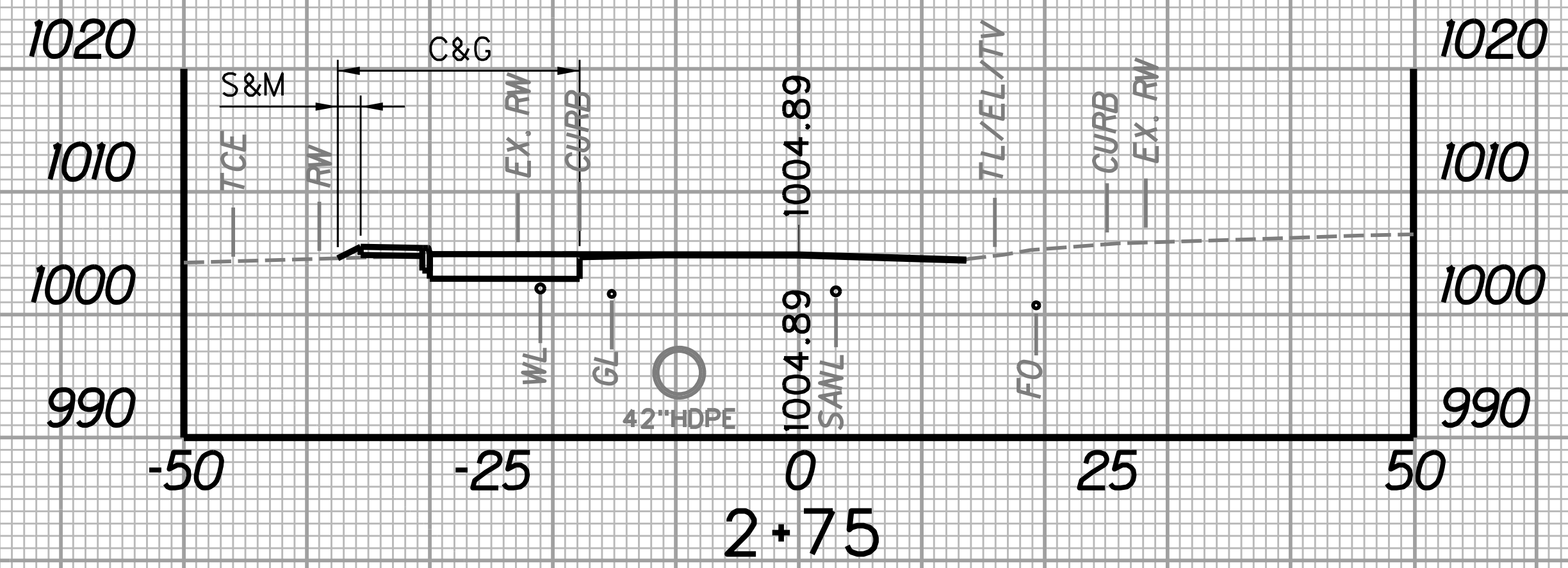


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
1+75		0.0		16.7		32.1		0.0		0.0	
	25		0.0		421.3		30.4		0.0		0.0
2+00		0.0		17.00		33.5		0.0		0.0	

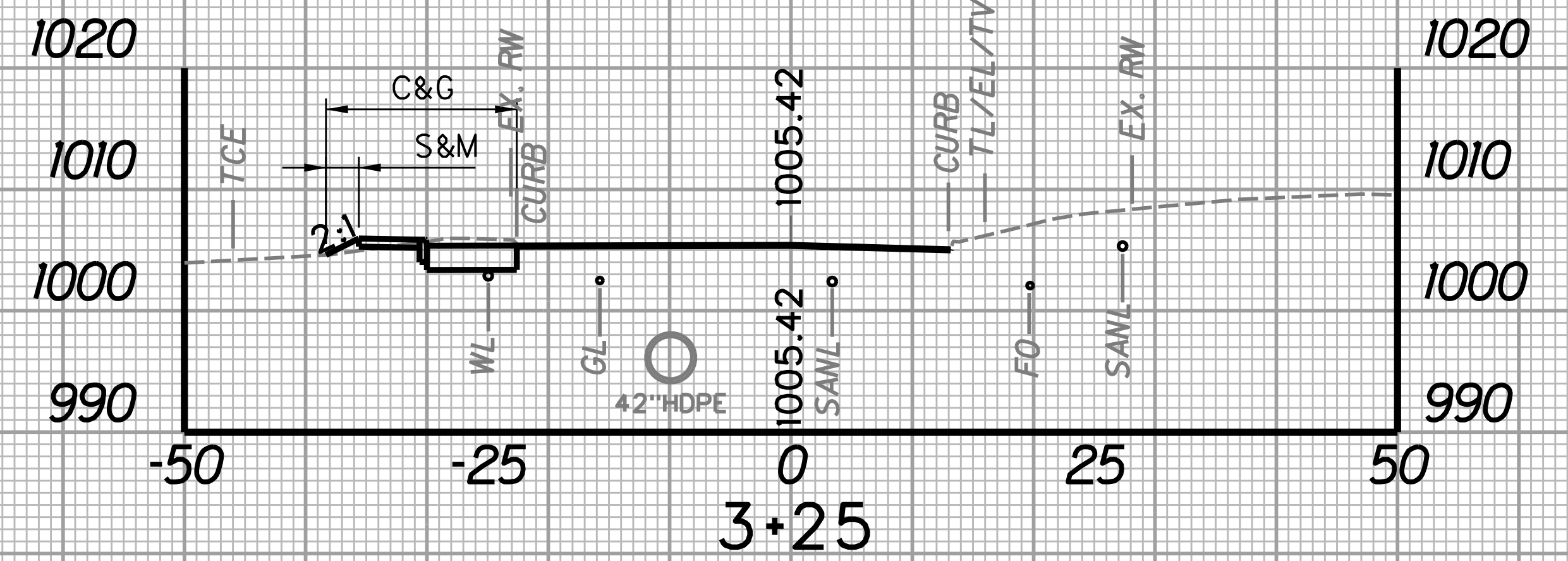


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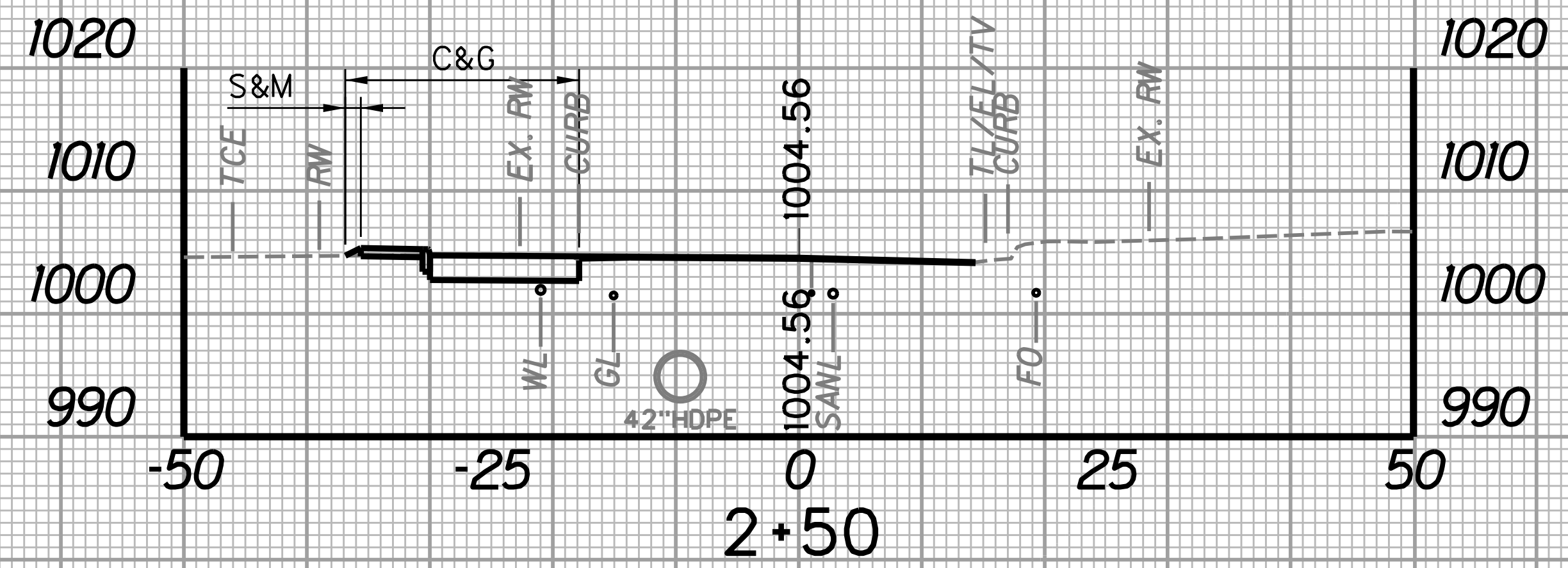
SUBMITTED 6/29/2020



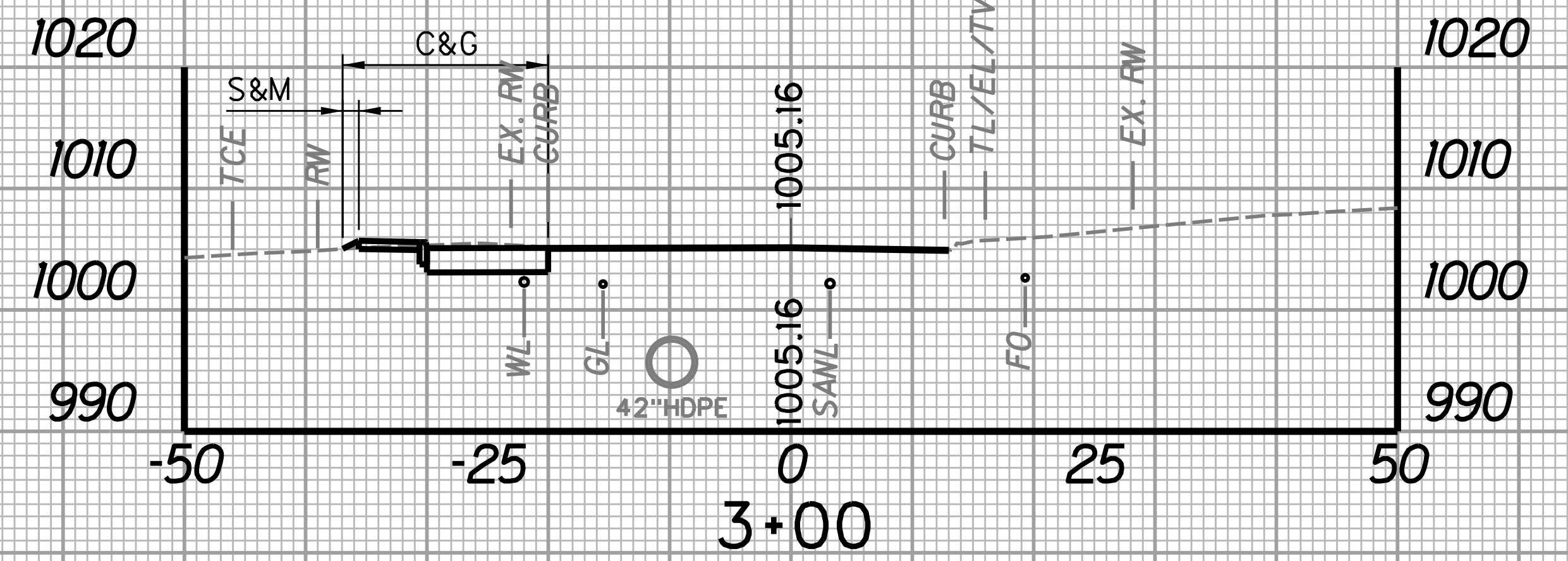
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
2+50	25	1.3	40.0	19.0	483.8	26.6	24.2	0.4	0.8	0.0	0.0
2+75	25	1.9	40.0	19.7	483.8	25.6	24.2	1.3	0.8	0.0	0.0



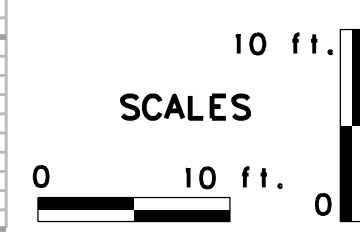
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		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
3+00	25	1.3	50.0	16.9	407.5	24.6	20.9	0.4	1.0	0.0	0.0
3+25	25	2.7	50.0	15.7	407.5	20.5	20.9	1.7	1.0	0.0	0.0



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
2+25	25	0.9	28.0	18.2	465.0	28.0	25.3	0.2	0.3	0.0	0.0
2+50	25	1.3	28.0	19.0	465.0	26.6	25.3	0.4	0.3	0.0	0.0

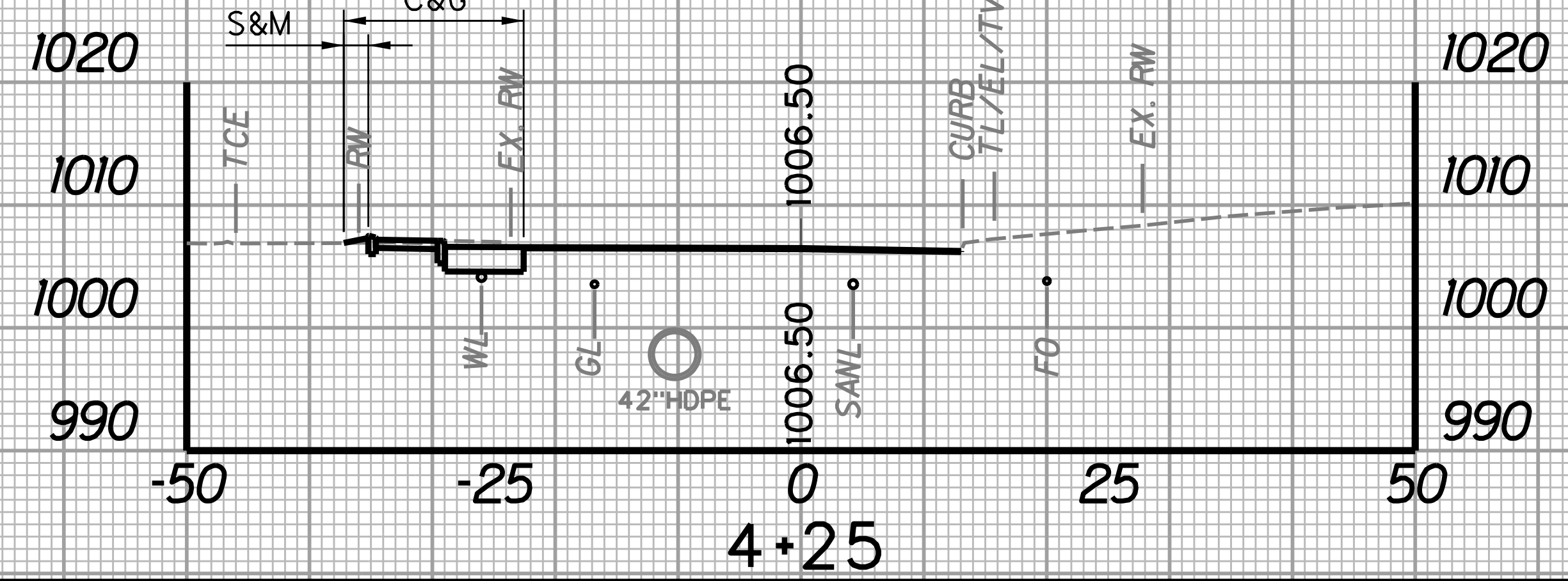
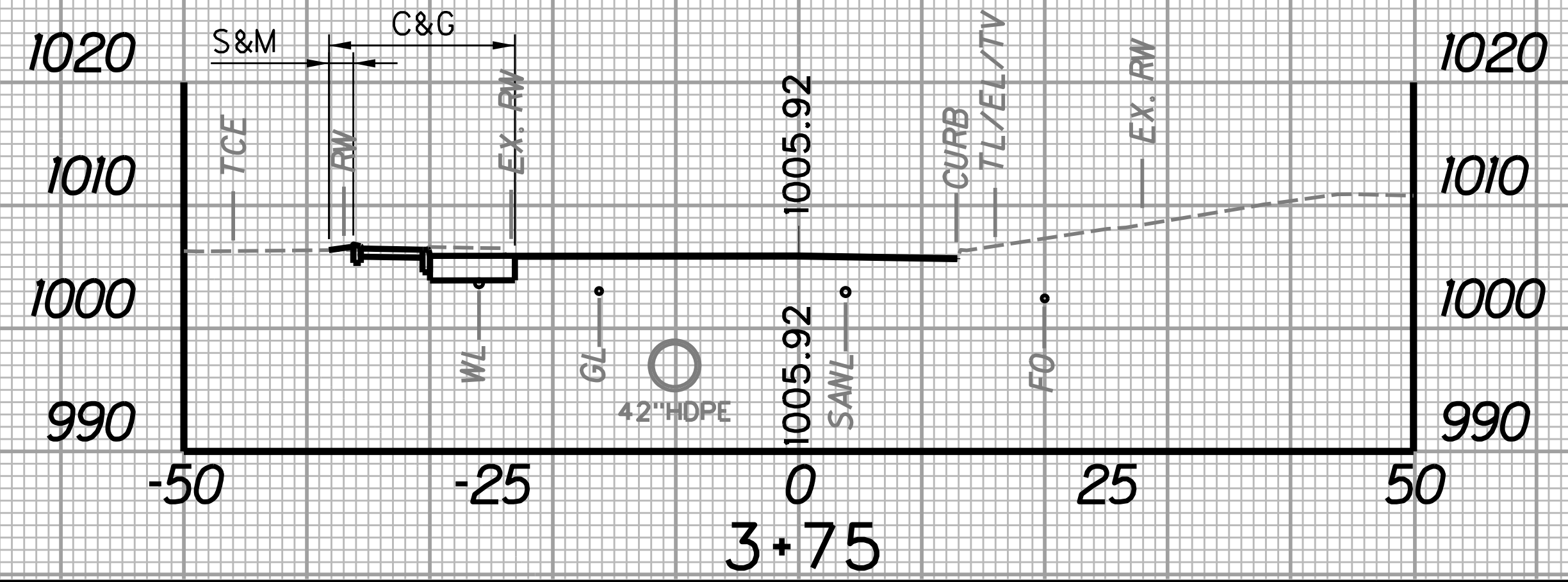


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
2+75	25	1.9	40.0	19.7	457.5	25.6	23.2	1.3	0.8	0.0	0.0
3+00	25	1.3	40.0	16.9	457.5	24.6	23.2	0.4	0.8	0.0	0.0



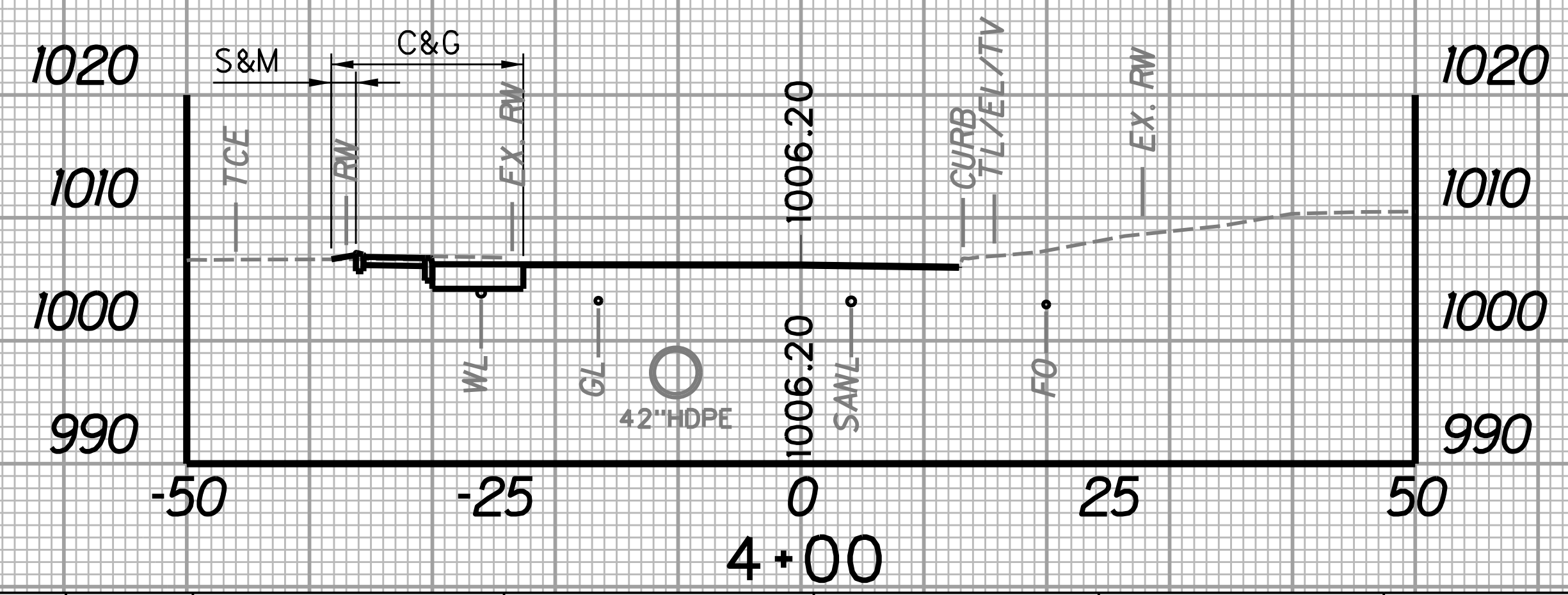
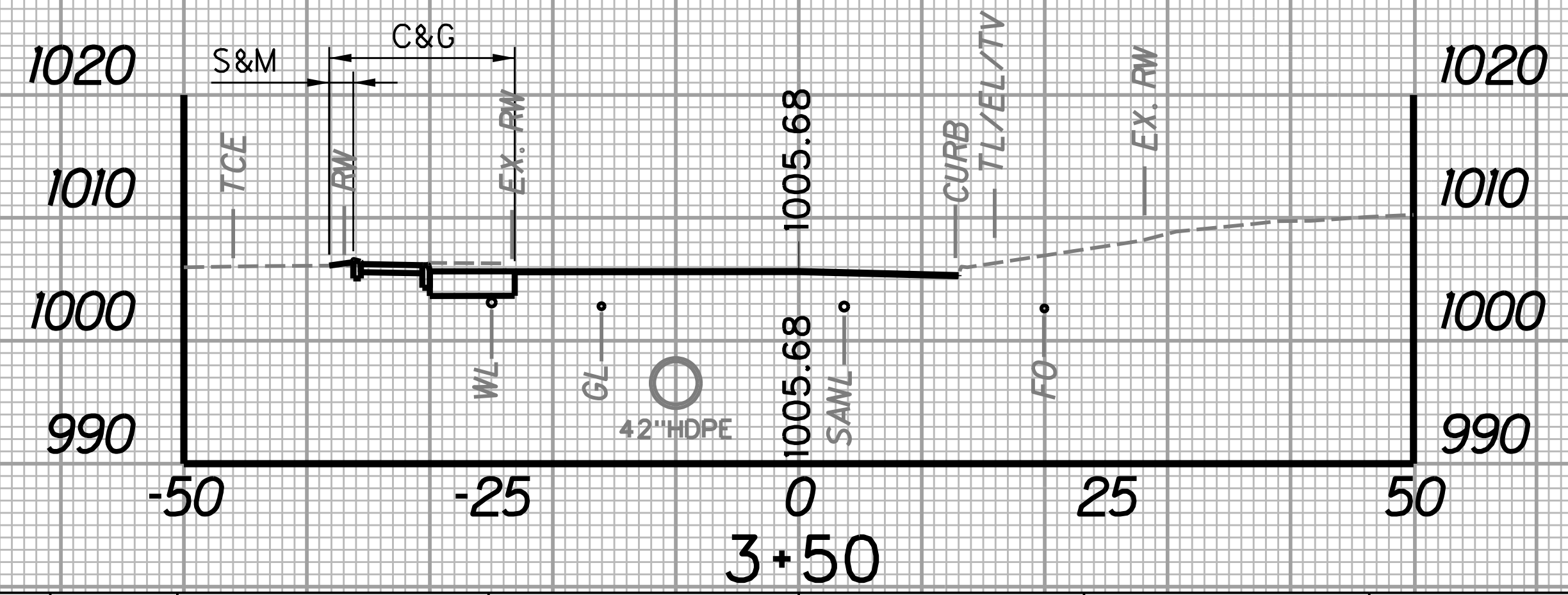
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STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
3+50		2.0		15.1		22.7		0.2		0.0	
3+75	25		49.9		377.5		21.0		0.2		0.0
3+75		2.0		15.1		22.7		0.3		0.0	

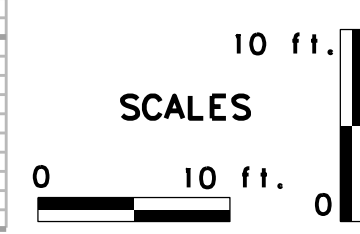
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
4+00		2.0		15.6		22.6		0.3		0.0	
4+25	25		50.4		377.5		19.3		0.3		0.0
4+25		2.0		14.6		19.1		0.3		0.0	



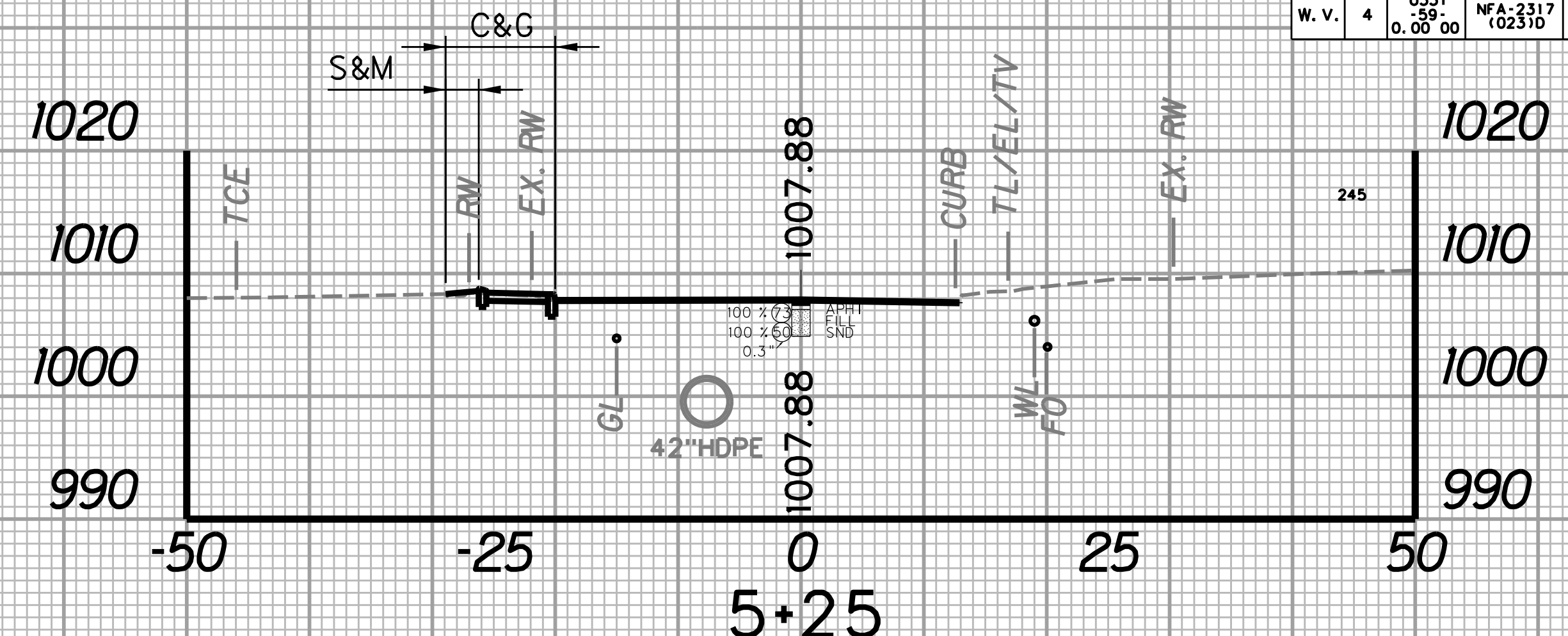
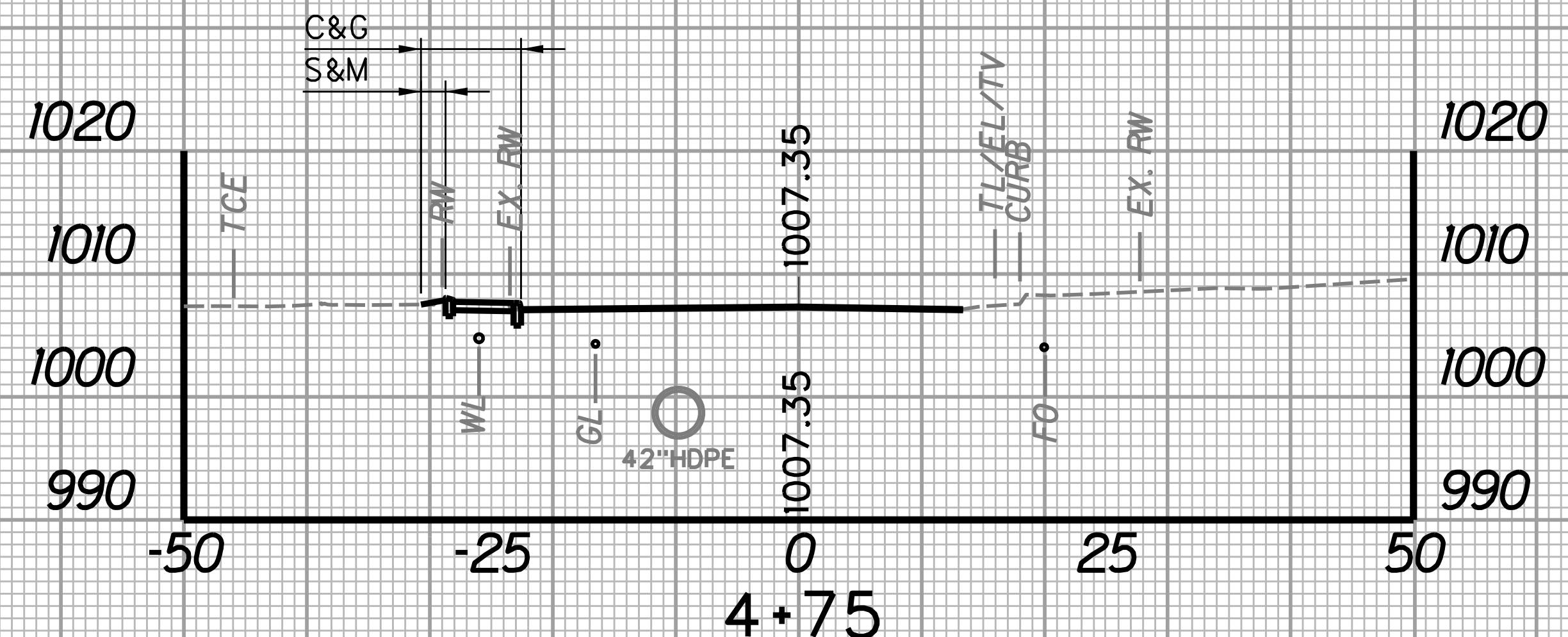
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
3+25		2.7		15.7		20.5		1.7		0.0	
3+50	25		58.6		385.0		20.0		0.9		0.0
3+50		2.0		15.1		22.7		0.2		0.0	

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
3+75		2.0		15.1		22.7		0.3		0.0	
4+00	25		50.2		383.8		21.0		0.3		0.0
4+00		2.0		15.6		22.6		0.3		0.0	

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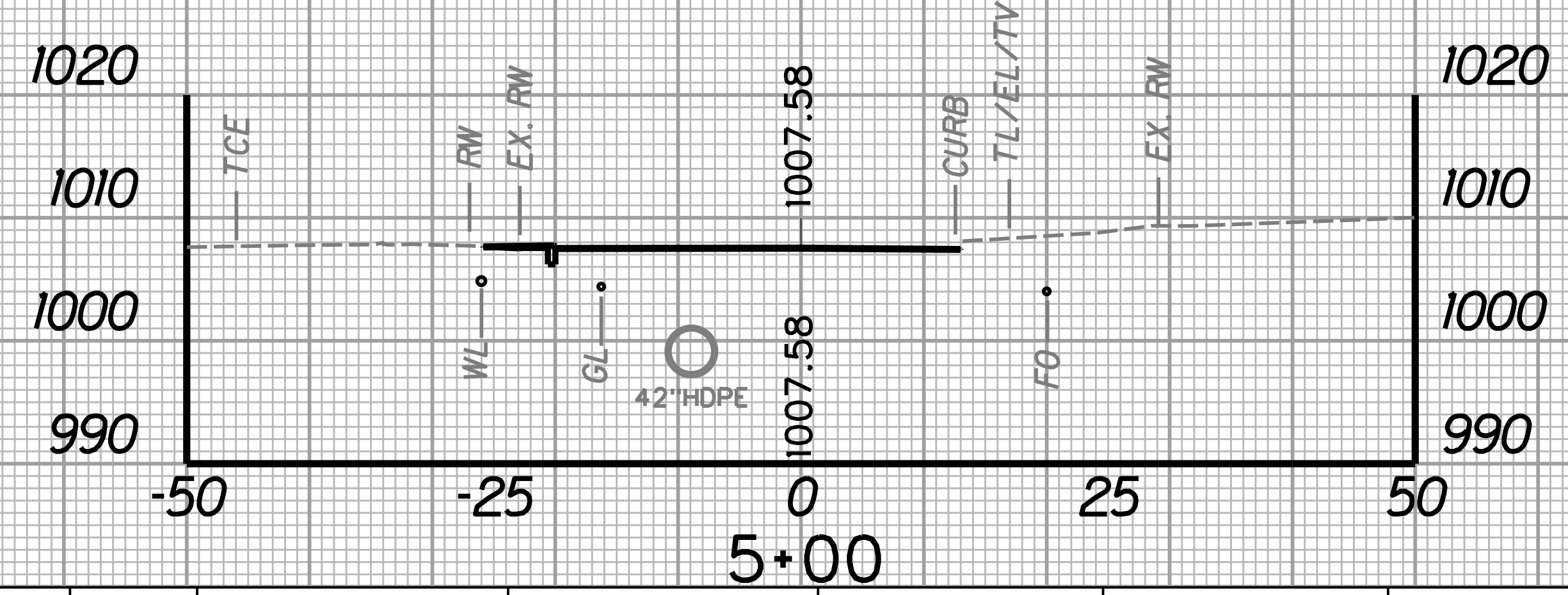


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STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
4+50		2.0		11.4		12.9		0.3		0.0	
4+75	25	2.0	50.0		245.0		8.3		0.2		0.0
4+75		2.0		8.2		5.1		0.2		0.0	

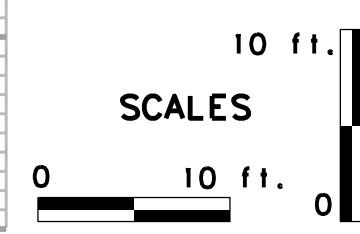
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
5+00		0.0		0.0		0.8		0.7		0.0	
5+25	25	2.7	33.8		112.5		2.2		0.6		0.0
5+25		2.7		9.0		4.0		0.5		0.0	



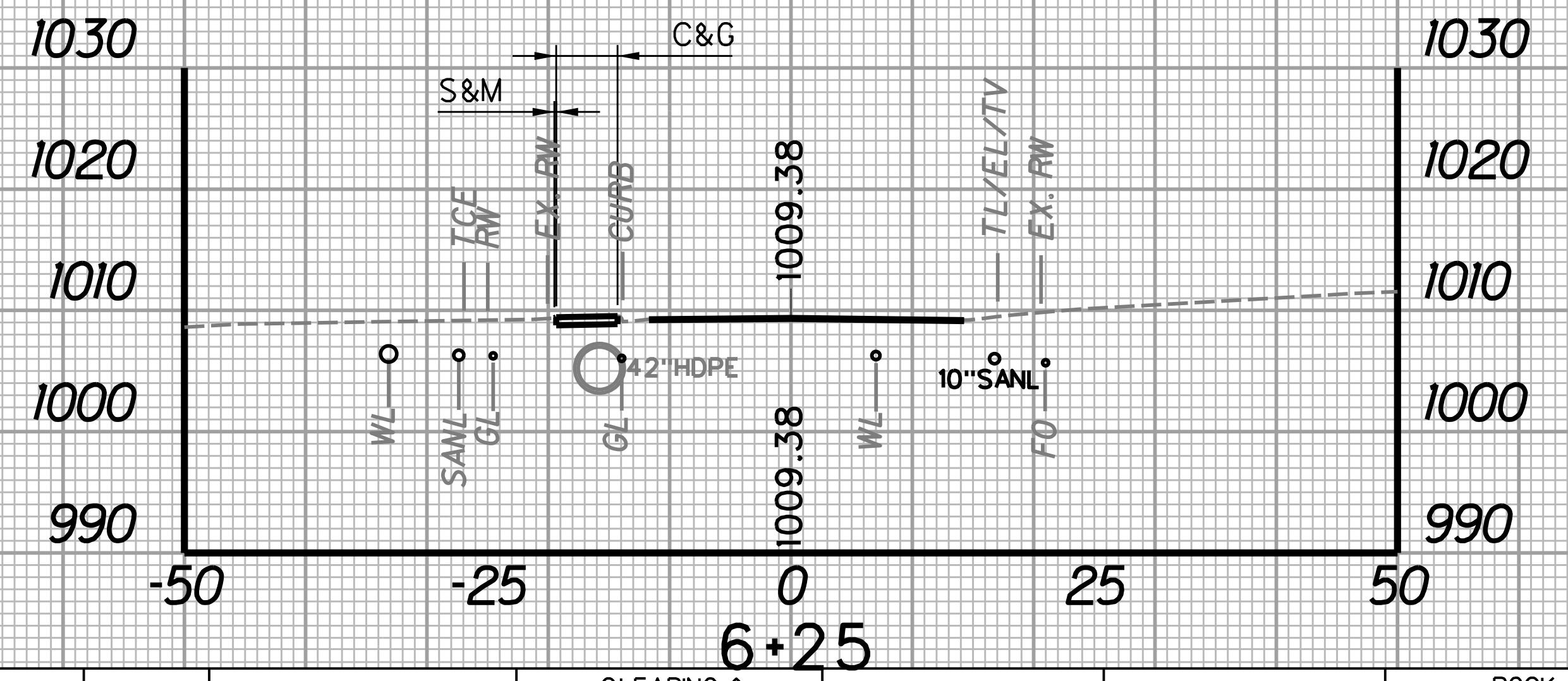
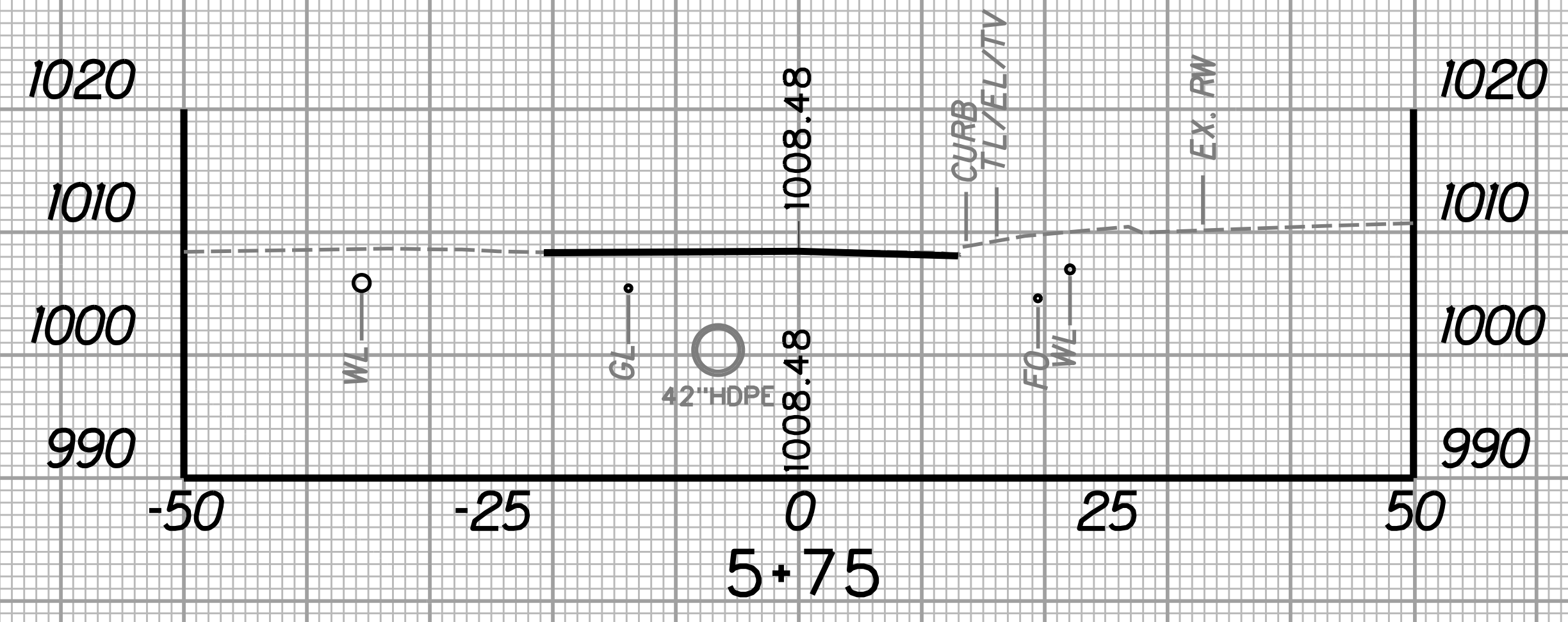
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
4+25		2.0		14.6		19.1		0.3		0.0	
4+50	25	2.0	50.3		325.0		14.8		0.3		0.0
4+50		2.0		11.4		12.9		0.3		0.0	

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
4+75		2.0		8.2		5.1		0.2		0.0	
5+00	25	0.0	24.9		102.5		2.7		0.4		0.0
5+00		0.0		0.0		0.8		0.7		0.0	

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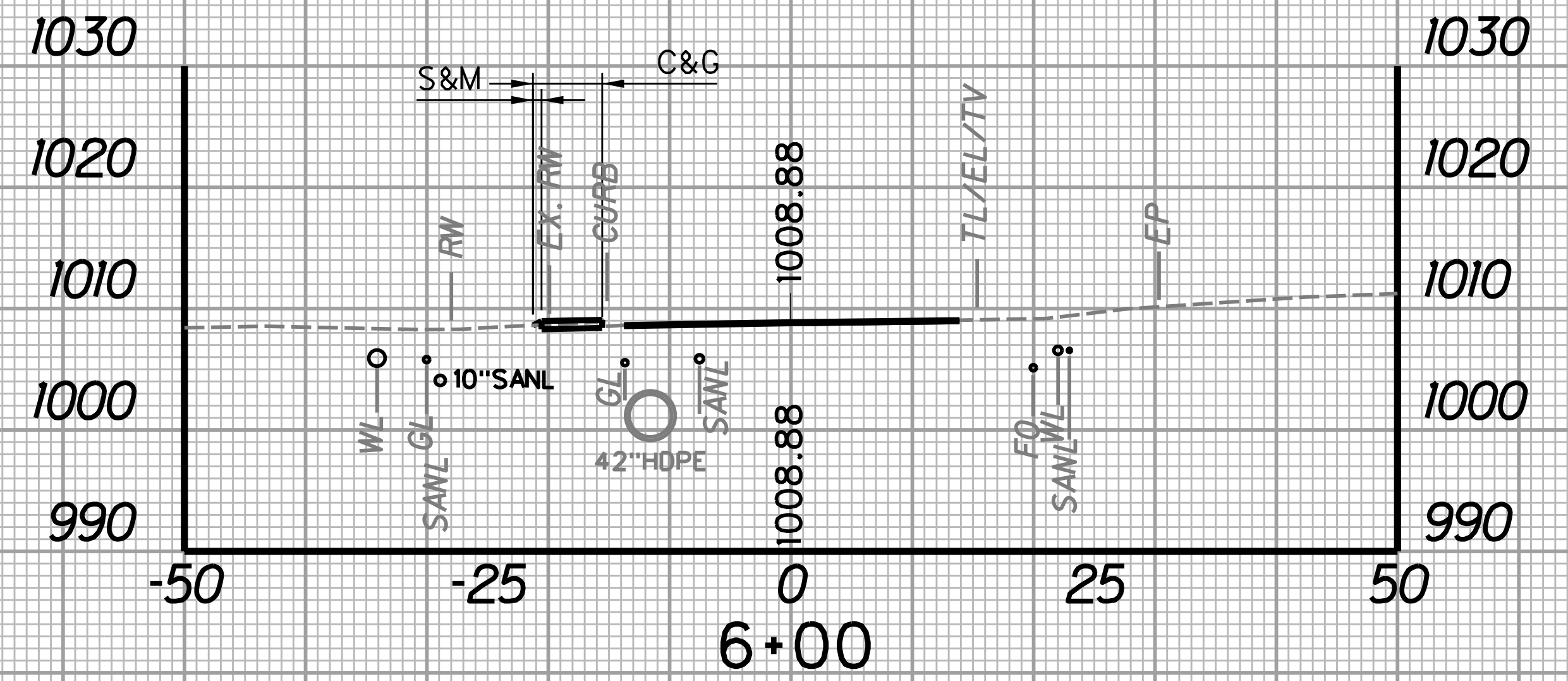
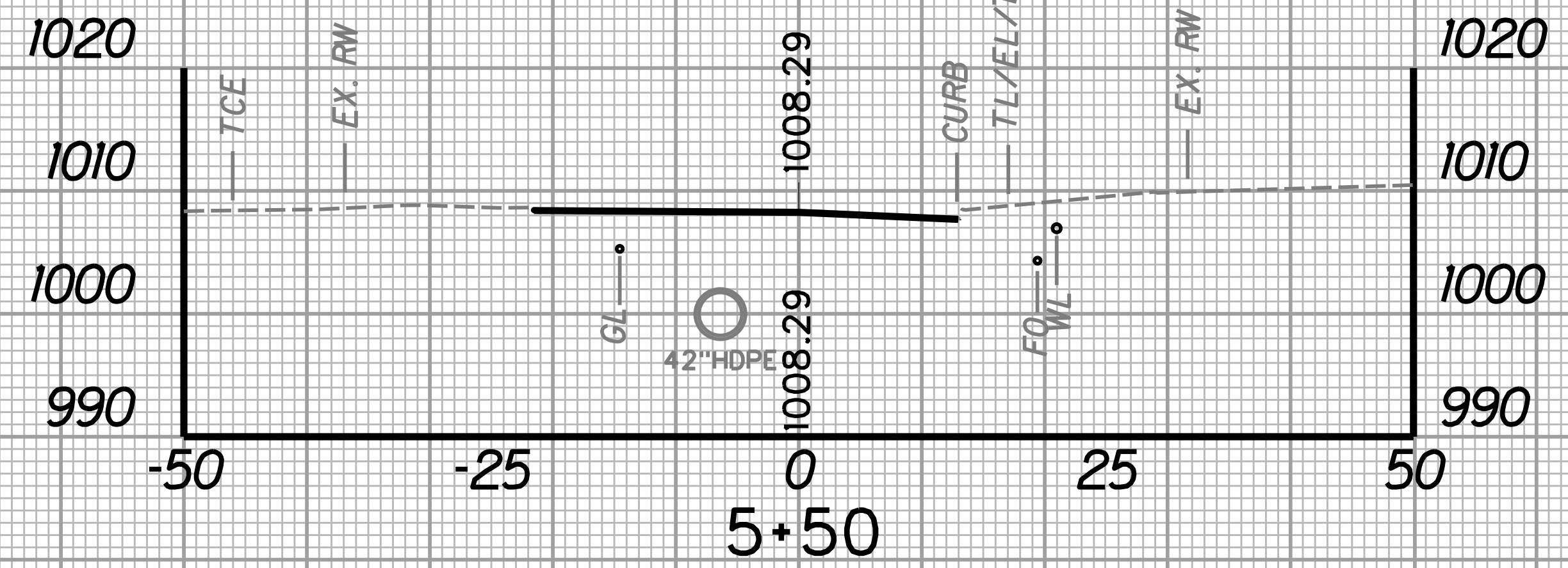


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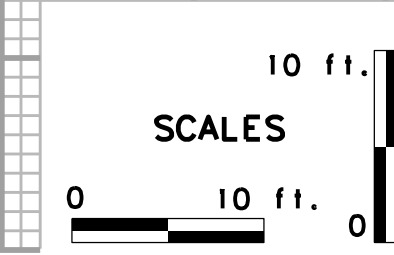
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
5+50	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5+75	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
6+00	25	0.8	12.1	5.8	141.3	2.2	2.6	0.1	0.0	0.0	0.0
6+25	25	0.2	0.0	5.5	0.0	3.4	0.0	0.0	0.0	0.0	0.0



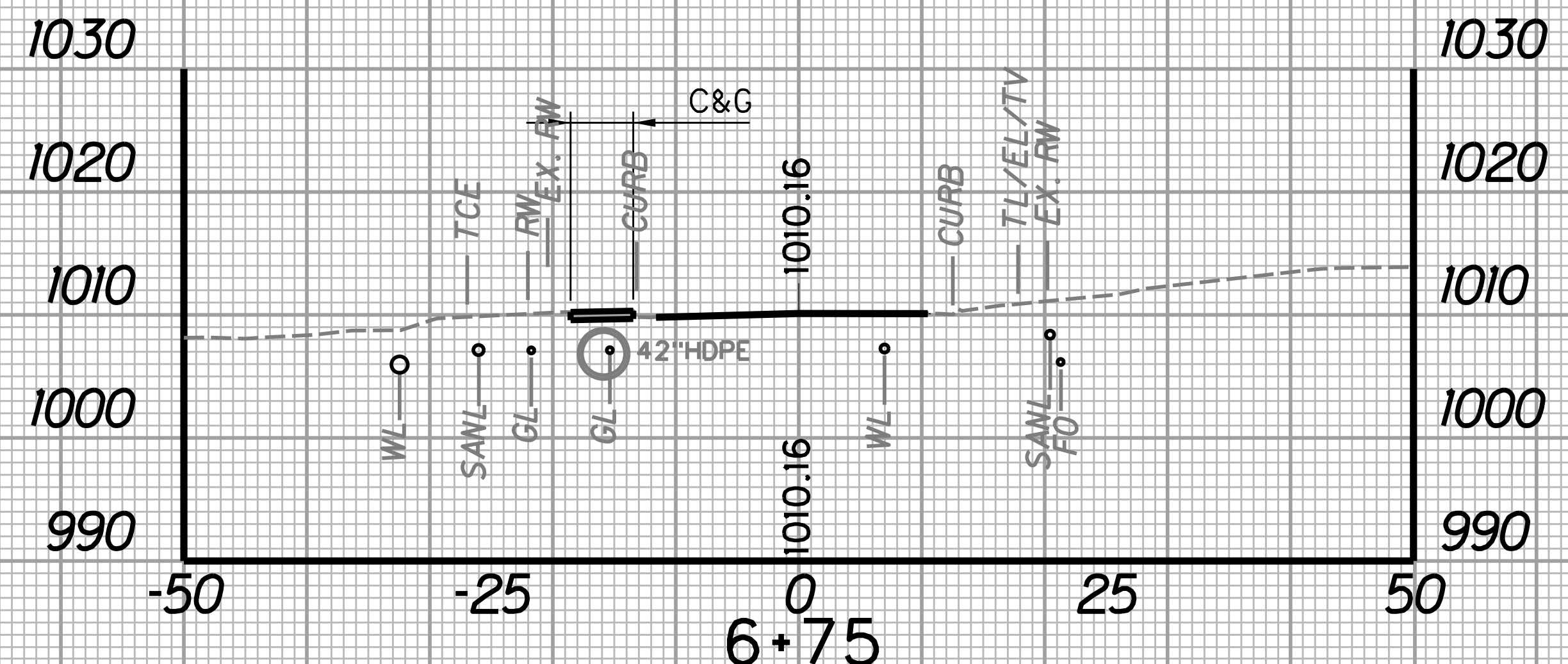
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
5+25	25	2.7	33.8	6.2	77.5	4.0	1.9	0.5	0.2	0.0	0.0
5+50	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
5+75	25	0.0	9.9	0.0	72.5	0.0	1.0	0.0	0.0	0.0	0.0
6+00	25	0.8	0.0	5.8	0.0	2.2	0.0	0.1	0.0	0.0	0.0

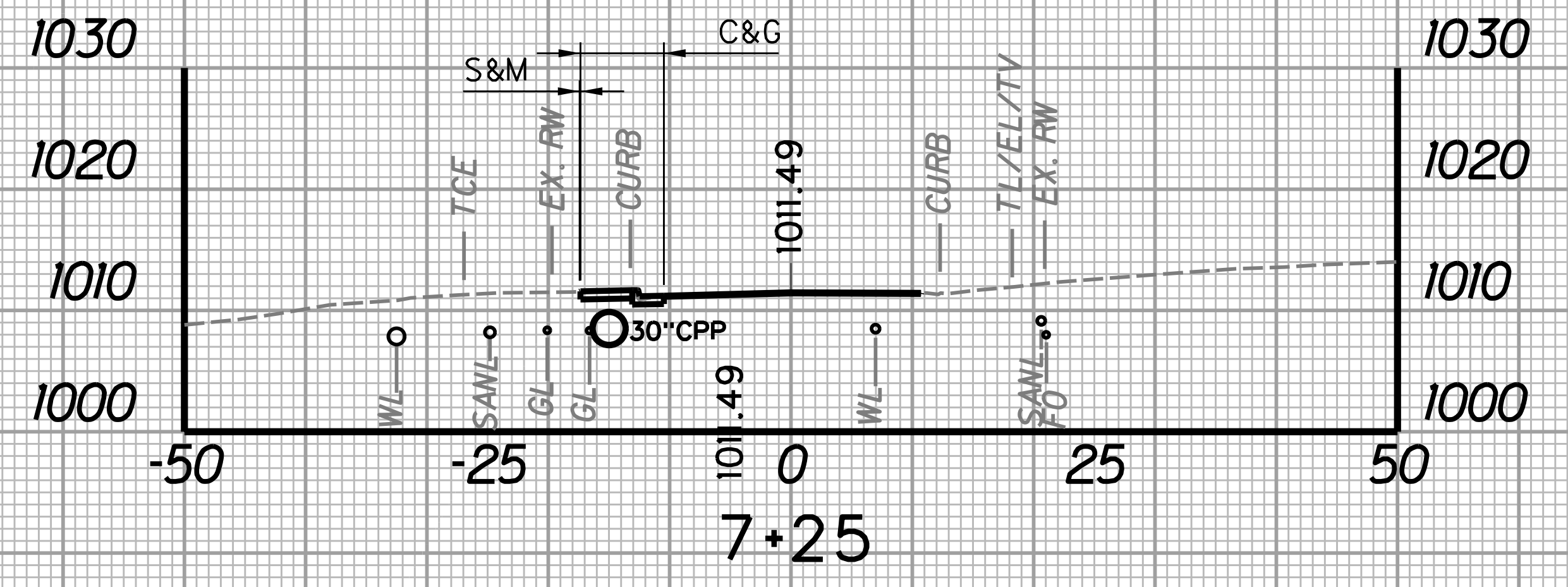


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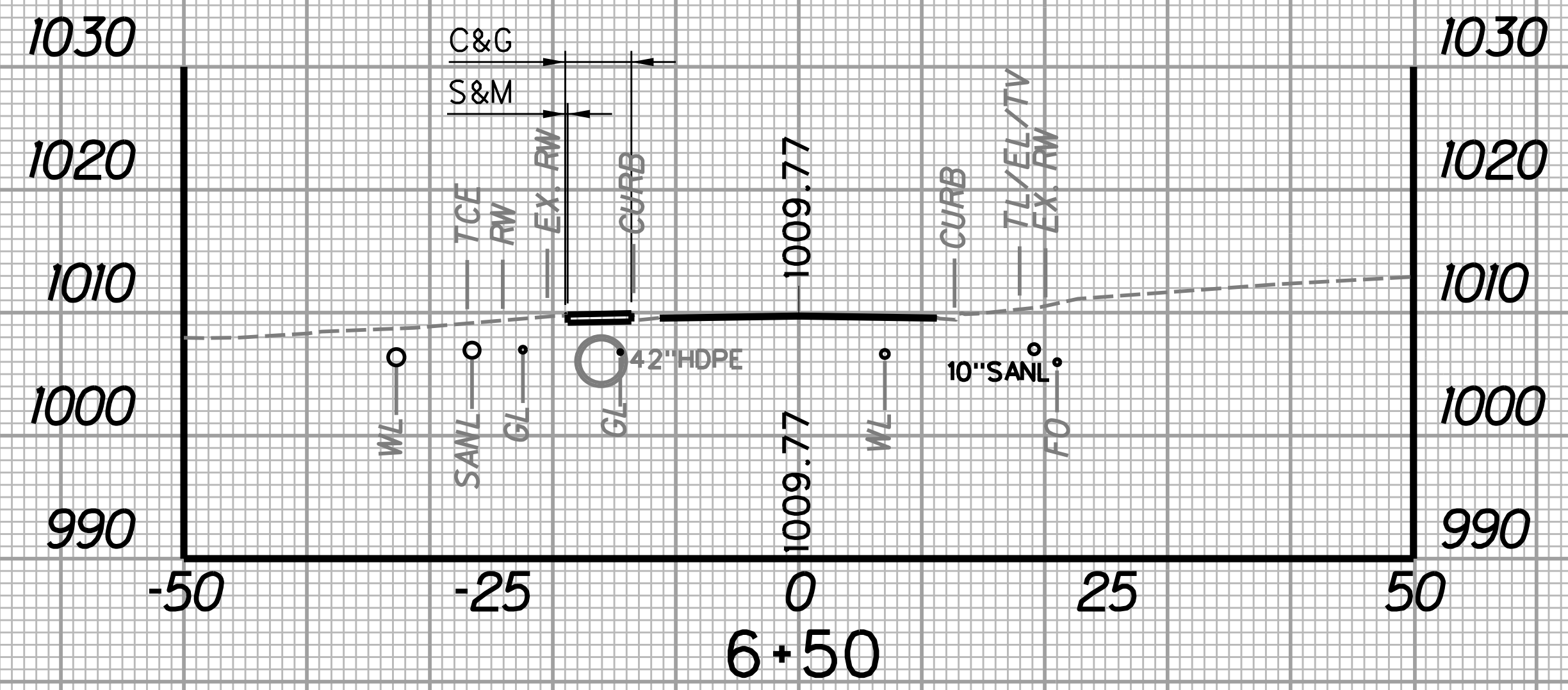
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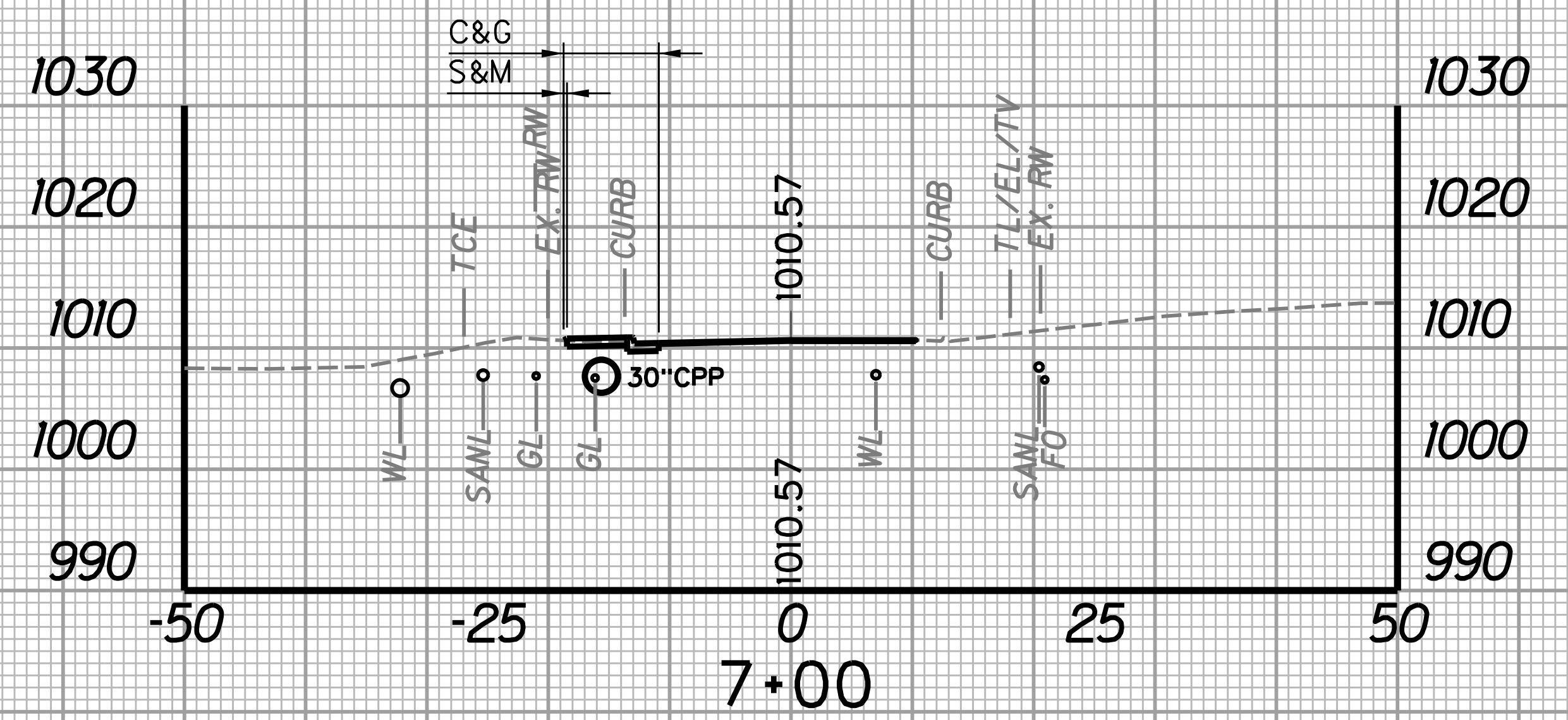
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
6+50		0.2		5.7		3.3		0.0		0.0	
	25		2.8		136.3		3.1		0.0		0.0
6+75		0.0		5.2		3.4		0.0		0.0	



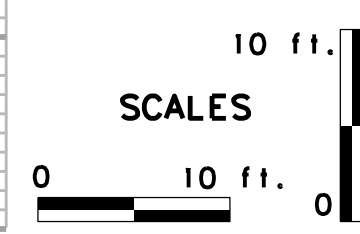
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
7+00		0.3		7.9		3.6		0.0		0.0	
	25		4.9		185.7		3.8		0.0		0.0
7+25		0.1		7.0		4.5		0.0		0.0	



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
6+25		0.2		5.5		3.4		0.0		0.0	
	25		5.0		140.0		3.1		0.0		0.0
6+50		0.2		5.7		3.3		0.0		0.0	

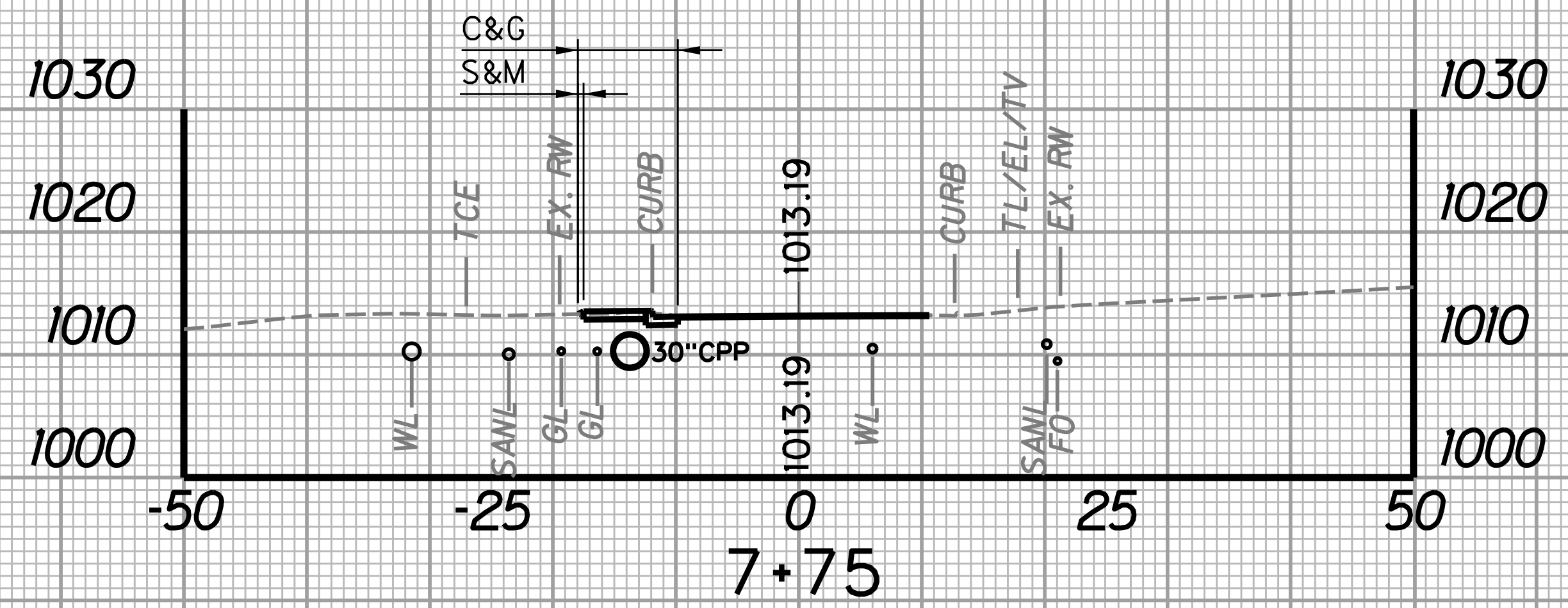


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
6+75		0.0		5.2		3.4		0.0		0.0	
	25		4.0		163.8		3.2		0.0		0.0
7+00		0.3		7.9		3.6		0.0		0.0	

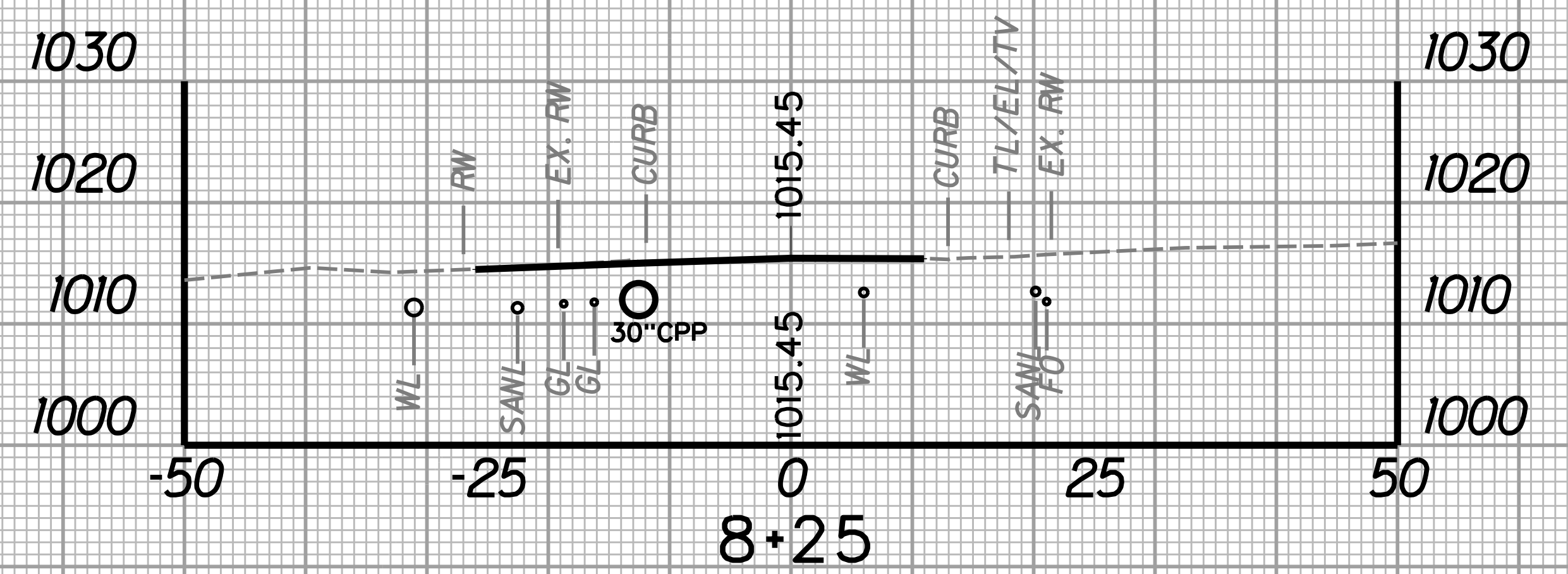


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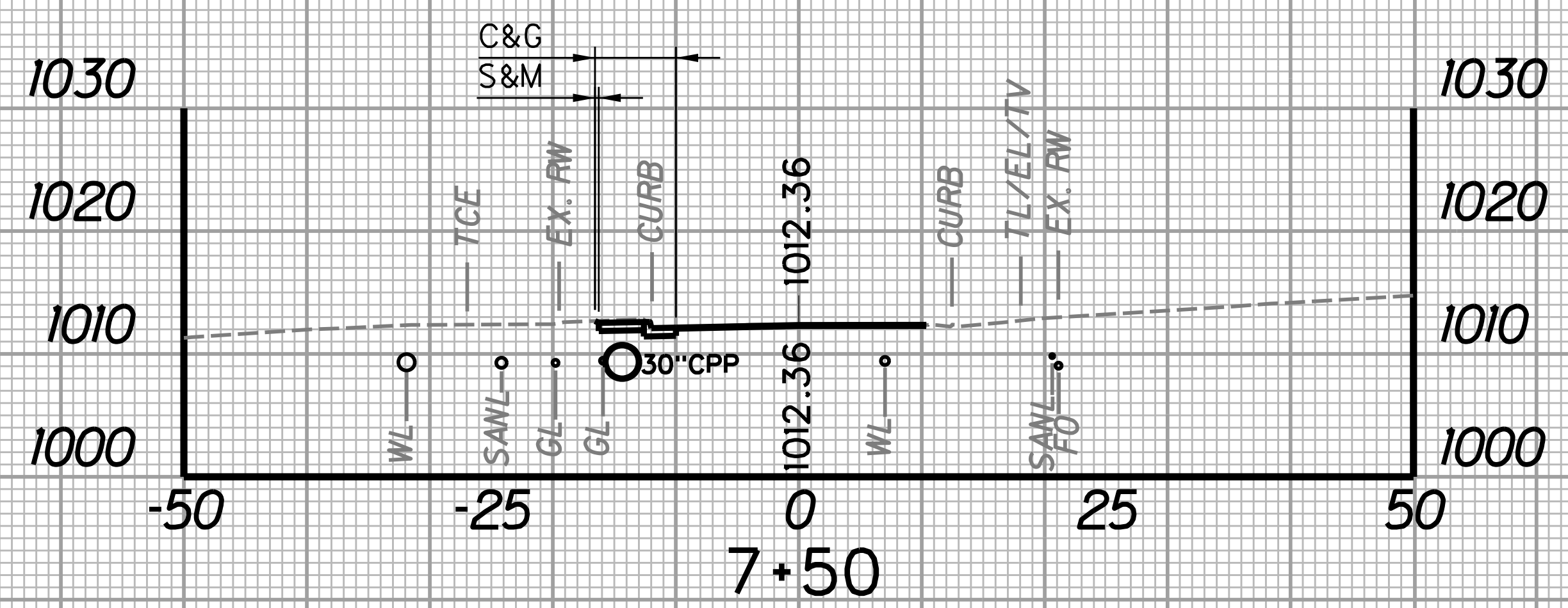
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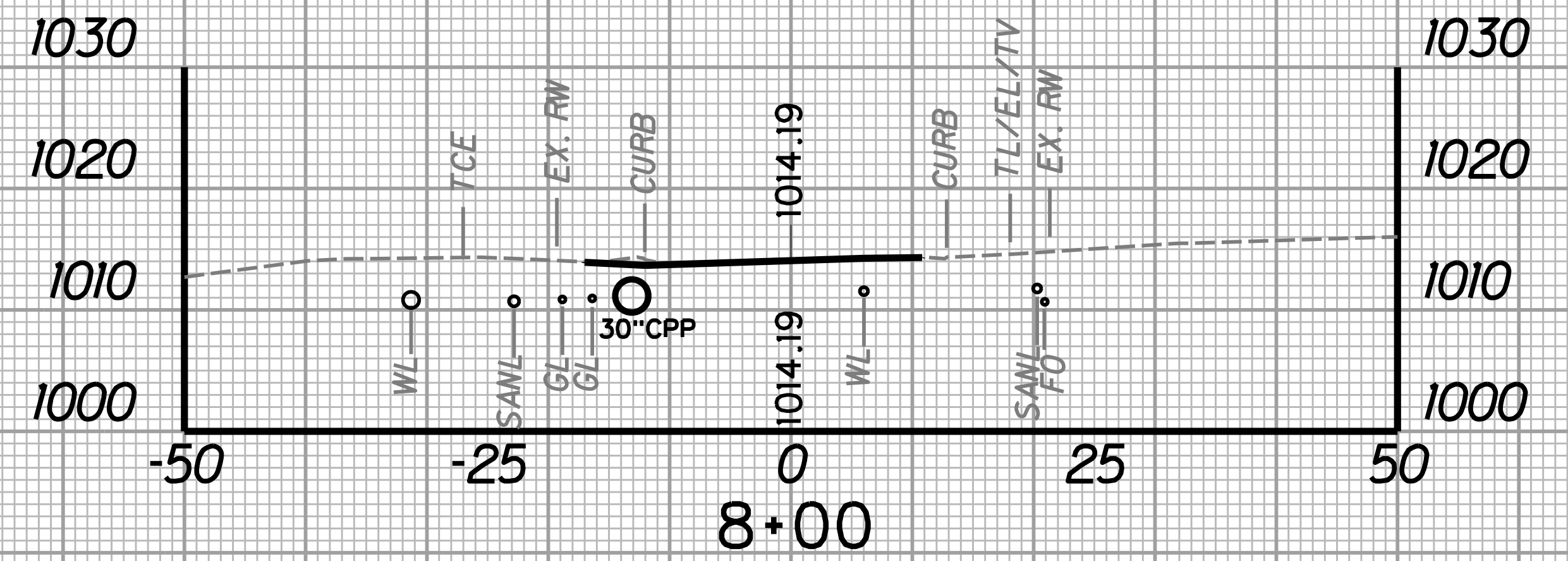
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
7+50		0.3		6.6		5.2		0.0		0.0	
	25		10.6		183.8		4.8		0.0		0.0
7+75		0.5		8.1		5.1		0.0		0.0	



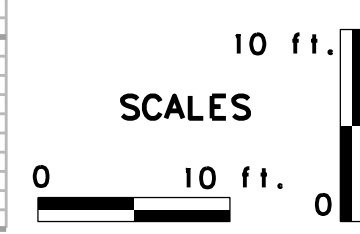
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
8+00		0.0		0.0		2.2		0.0		0.0	
	25		0.0		0.0		2.2		0.0		0.0
8+25		0.0		0.0		2.5		0.0		0.0	



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
7+25		0.1		7.0		4.5		0.0		0.0	
	25		5.2		169.5		4.5		0.0		0.0
7+50		0.3		6.6		5.2		0.0		0.0	

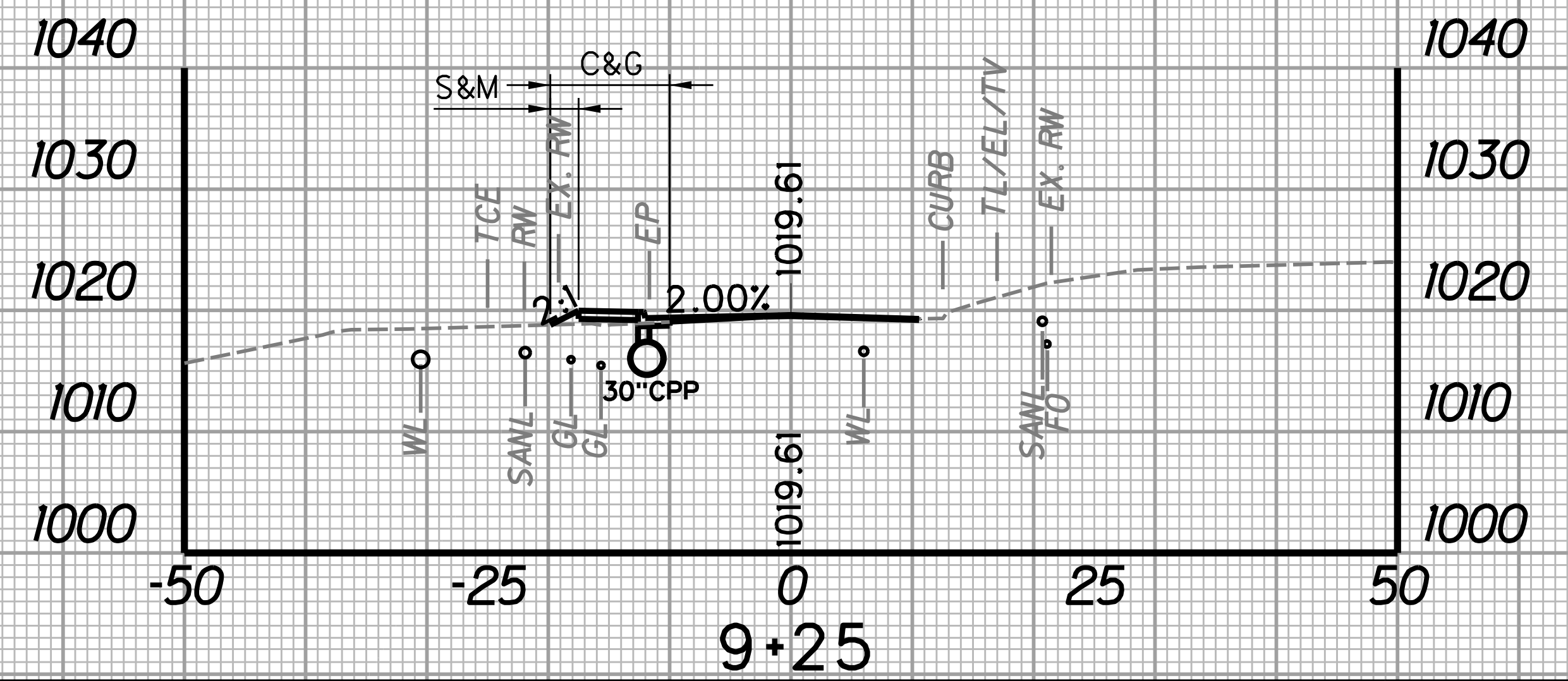
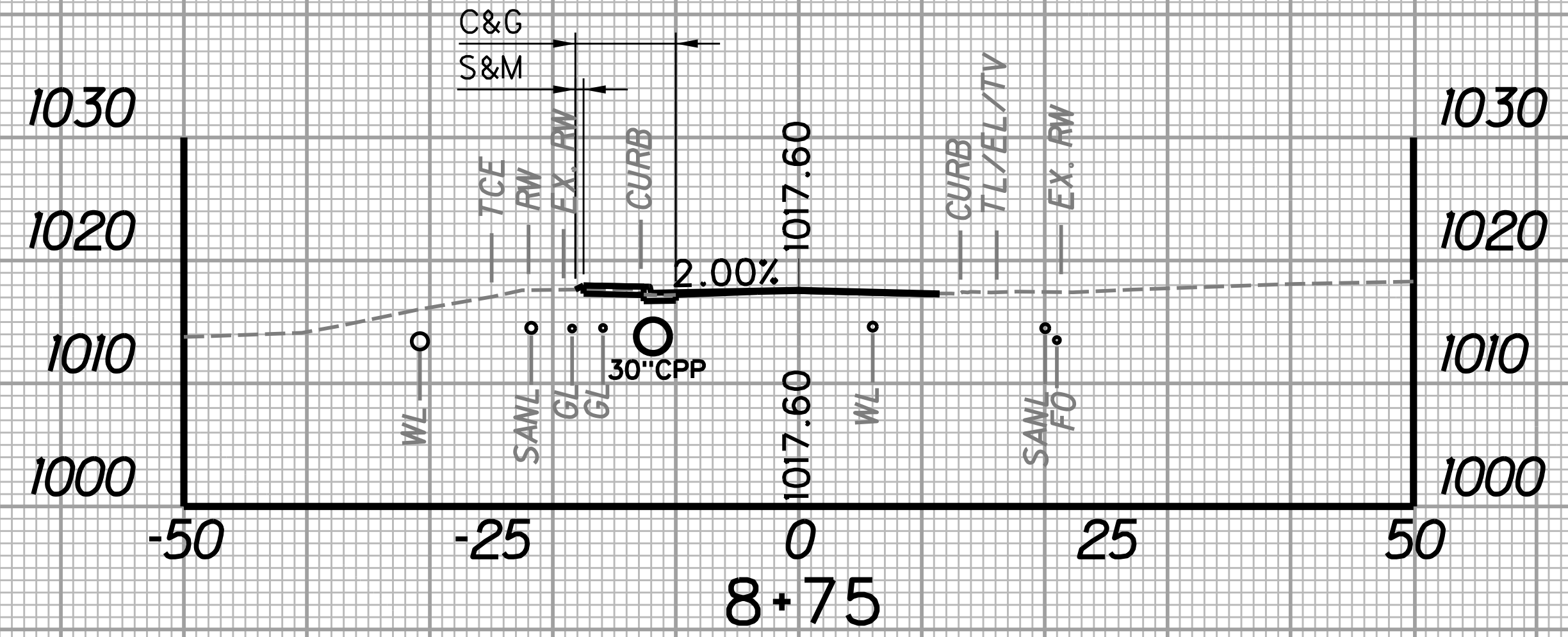


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
7+75		0.5		8.1		5.1		0.0		0.0	
	25		6.3		101.3		3.4		0.0		0.0
8+00		0.0		0.0		2.2		0.0		0.0	



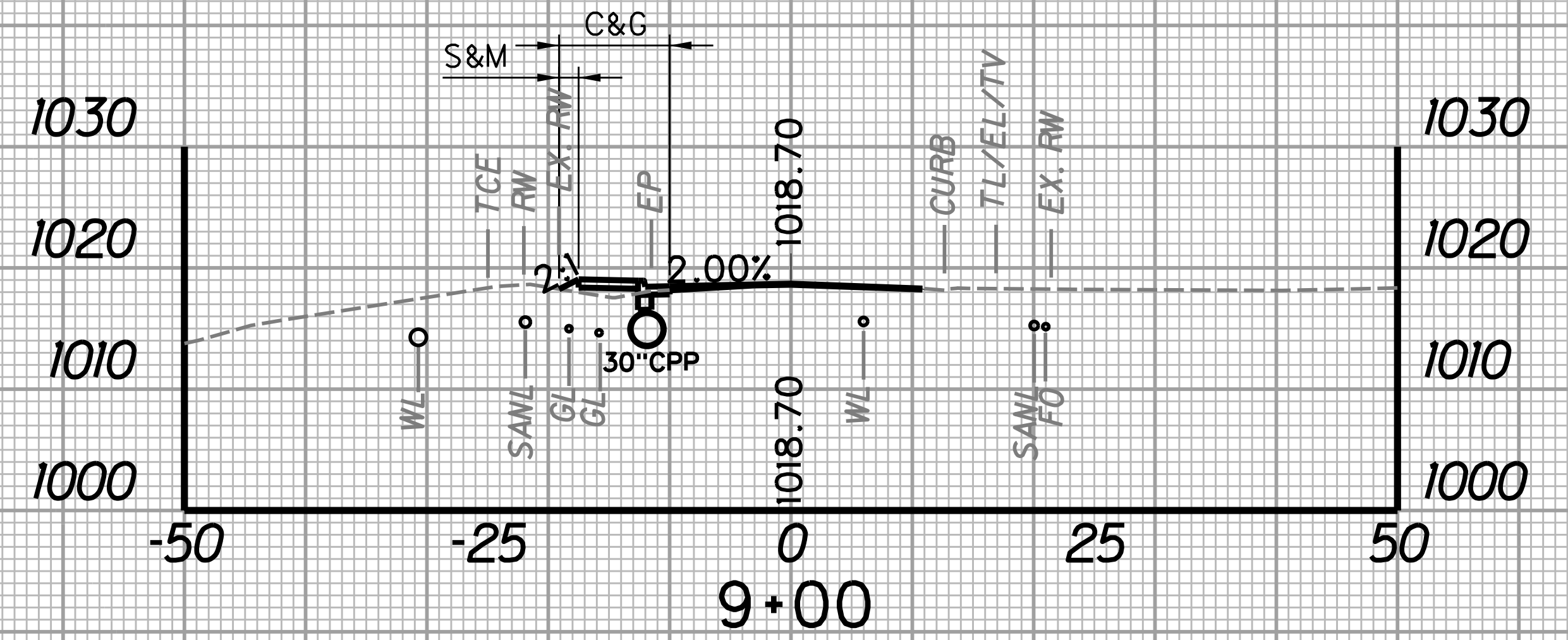
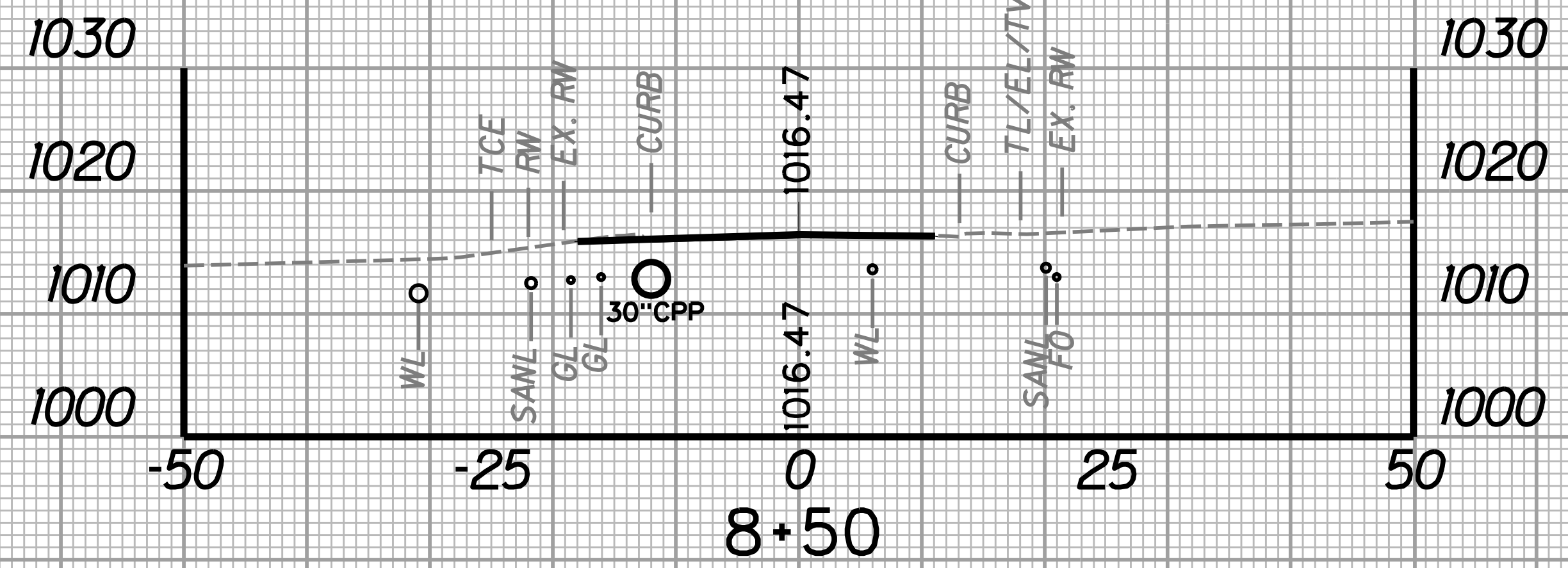
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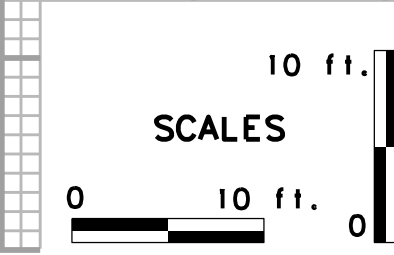
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
8+50		0.0		0.0		0.0		0.0		0.0	
8+75	25	0.8	9.4	8.2	102.5	3.1	1.4	0.1	0.0	0.0	0.0

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
9+00		2.1		9.1		2.1		3.7		0.0	
9+25	25	2.6	58.7	9.8	236.3	1.8	1.8	3.2	3.2	0.0	0.0



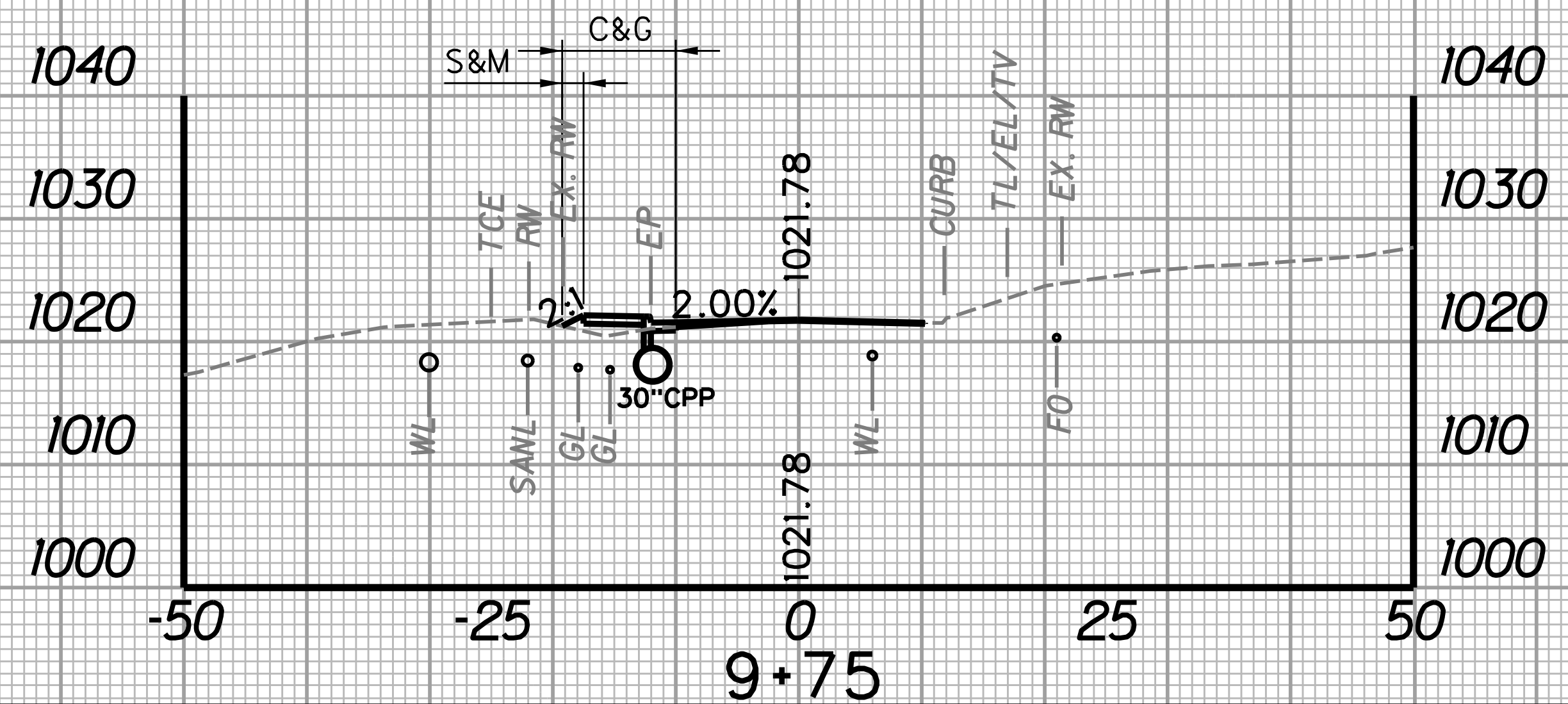
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
8+25		0.0		0.0		4.0		0.0		0.0	
8+50	25	0.0	0.0	0.0	0.0	3.6	3.5	0.0	0.0	0.0	0.0

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
8+75		0.8		8.2		3.1		0.1		0.0	
9+00	25	2.1	35.4	9.1	216.3	2.1	2.4	3.7	1.8	0.0	0.0

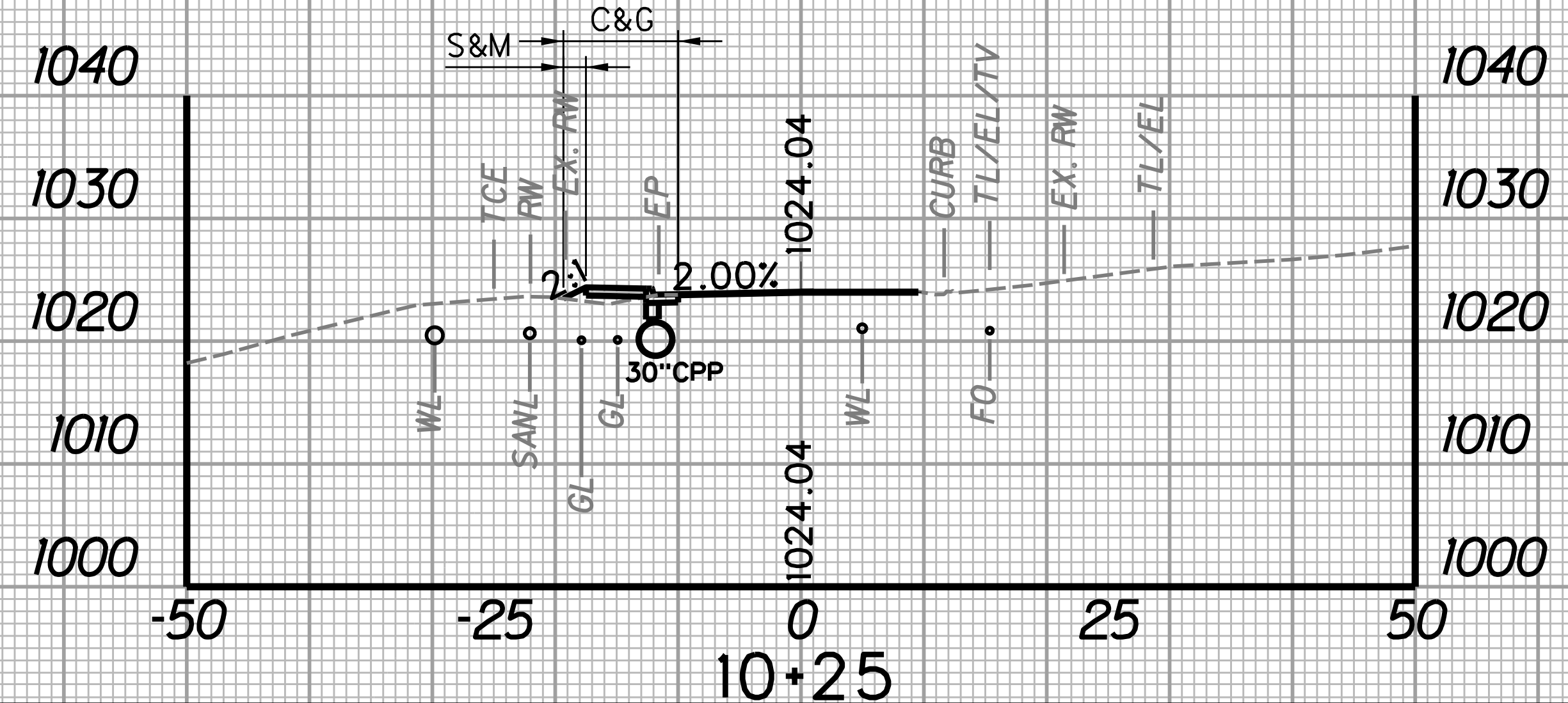


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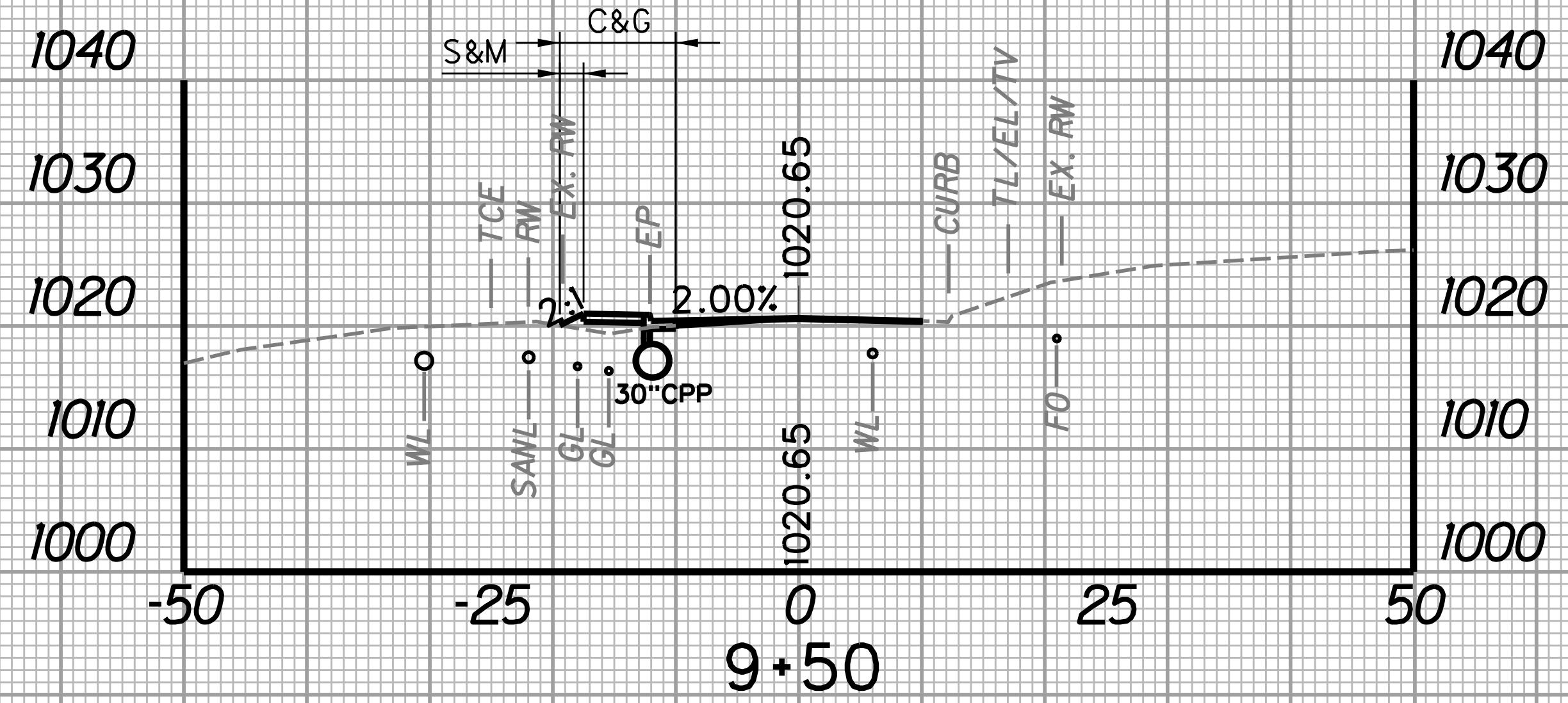
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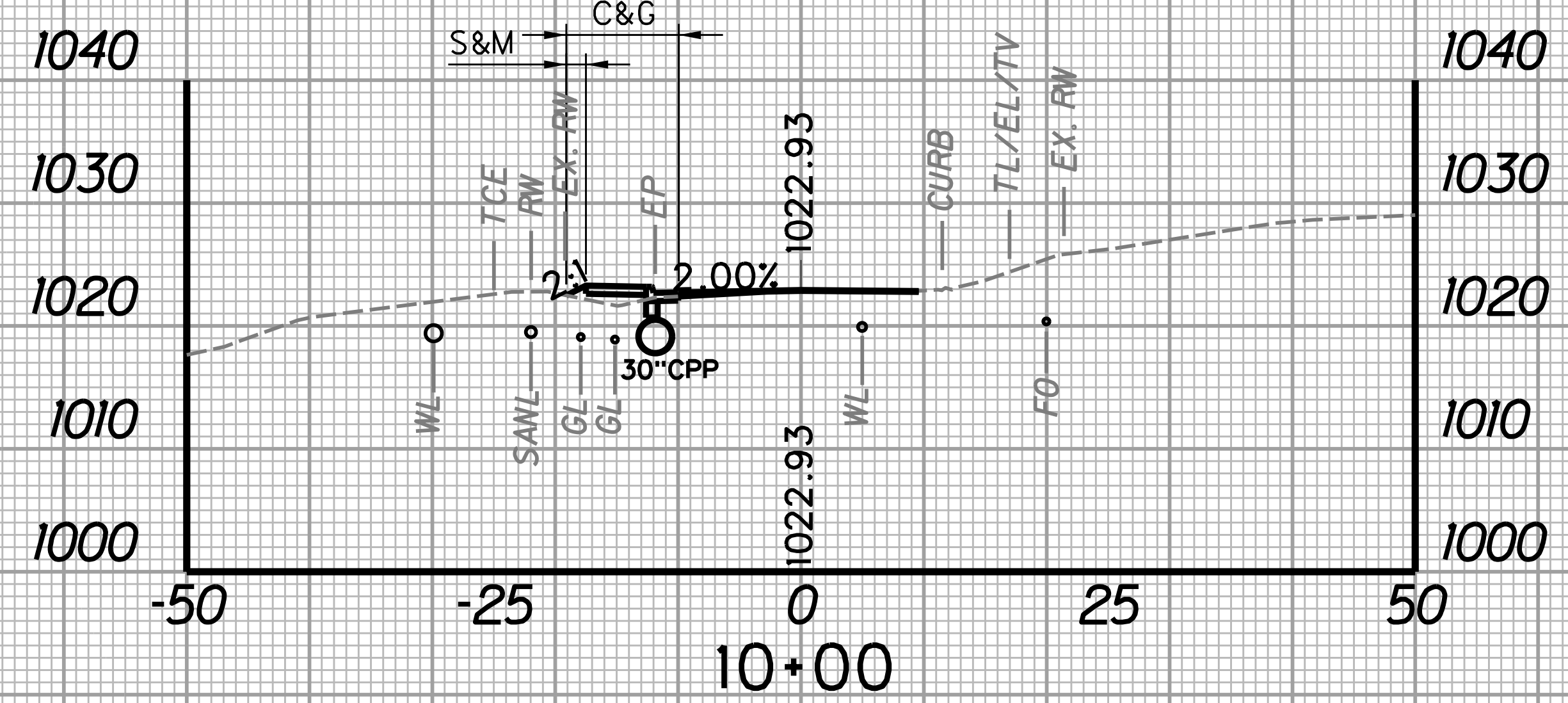
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
9+50	25	2.2	51.1	9.4	233.8	1.1	1.0	4.7	4.4	0.0	0.0
9+75	25	1.9		9.3		1.0		4.7		0.0	



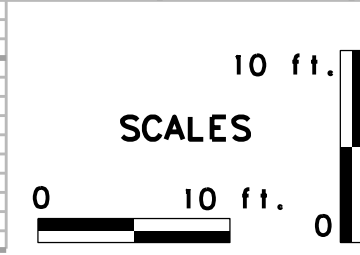
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		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
10+00	25	1.8	45.3	9.2	231.3	2.1	2.4	4.3	3.5	0.0	0.0
10+25	25	1.8		9.3		3.0		3.2		0.0	



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
9+25	25	2.6	59.6	9.8	240.0	1.8	1.3	3.2	3.7	0.0	0.0
9+50	25	2.2		9.4		1.1		4.7		0.0	

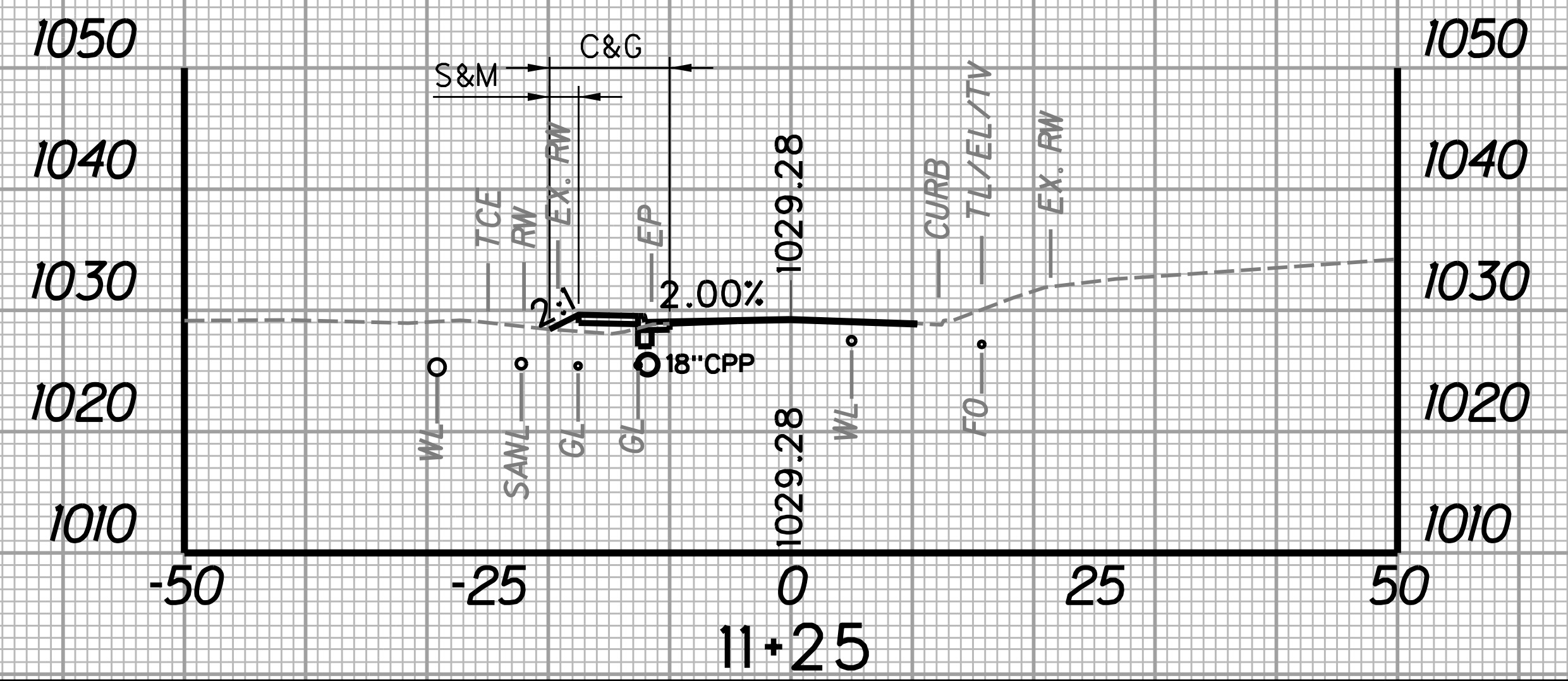
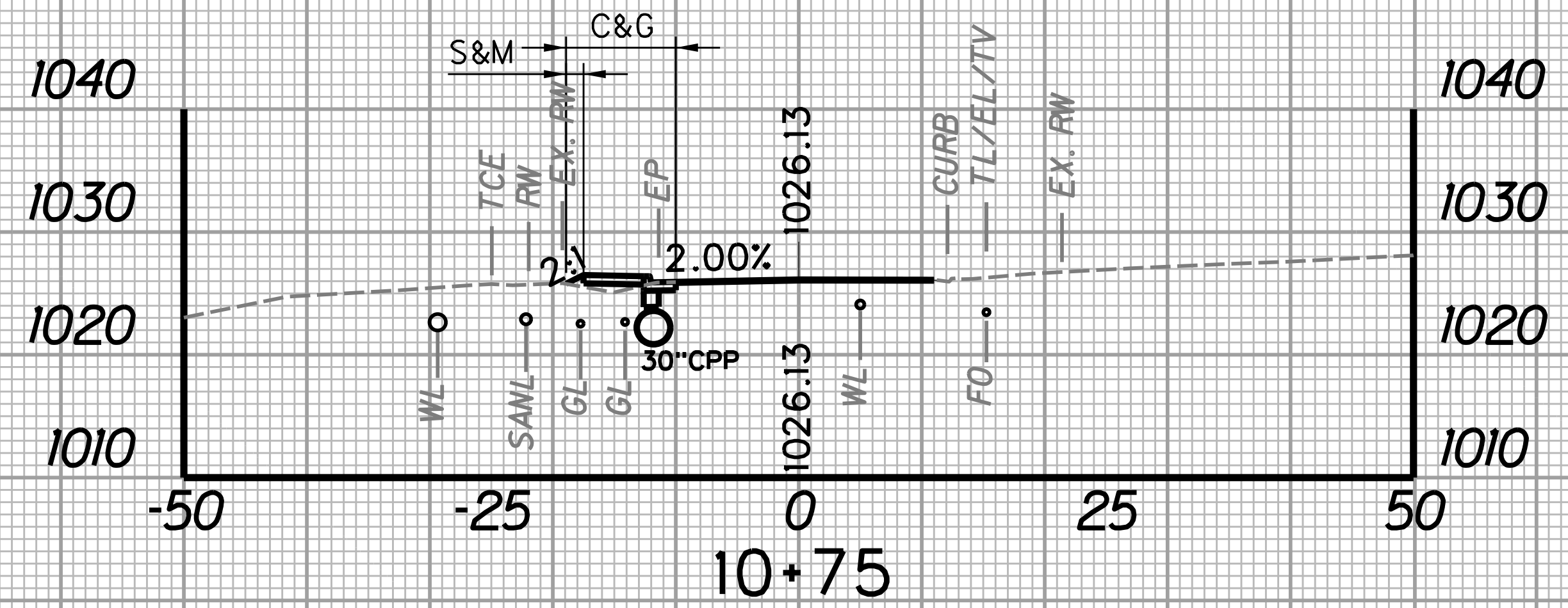


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
9+75	25	1.9	46.6	9.3	231.3	1.0	1.4	4.7	4.2	0.0	0.0
10+00	25	1.8		9.2		2.1		4.3		0.0	



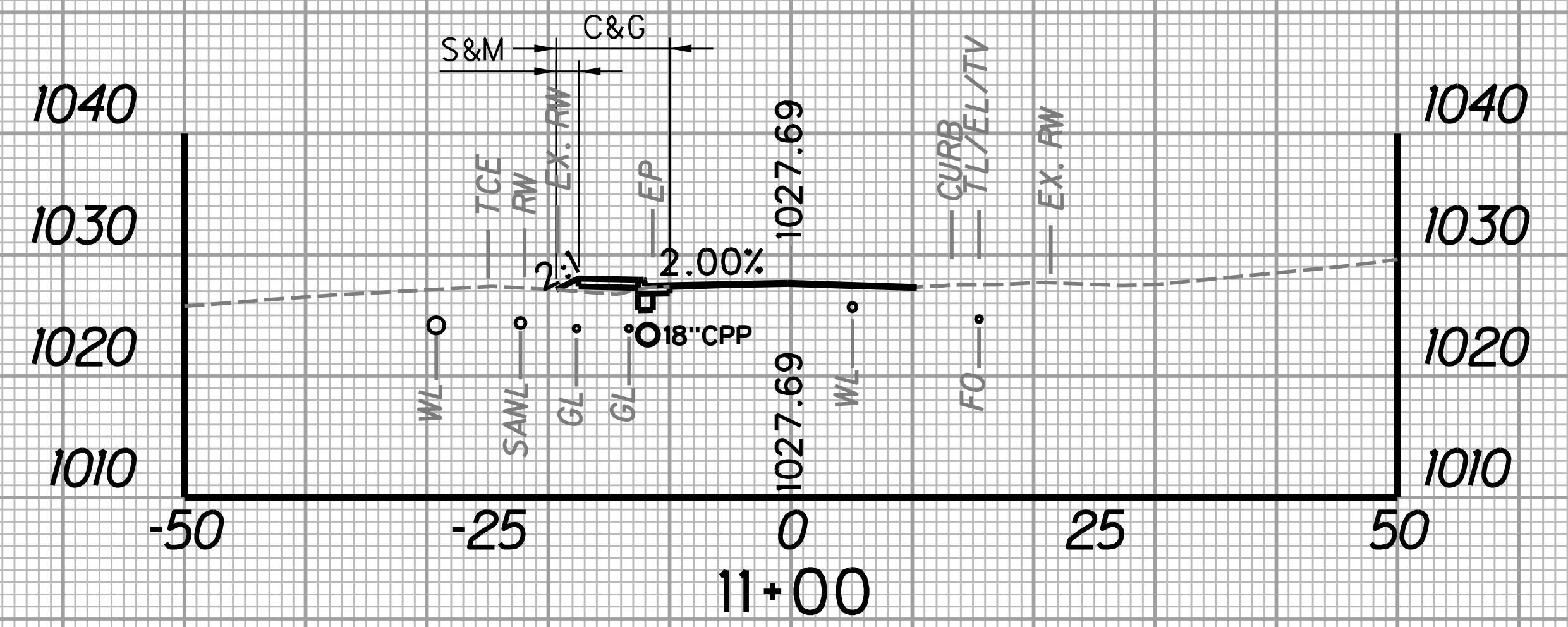
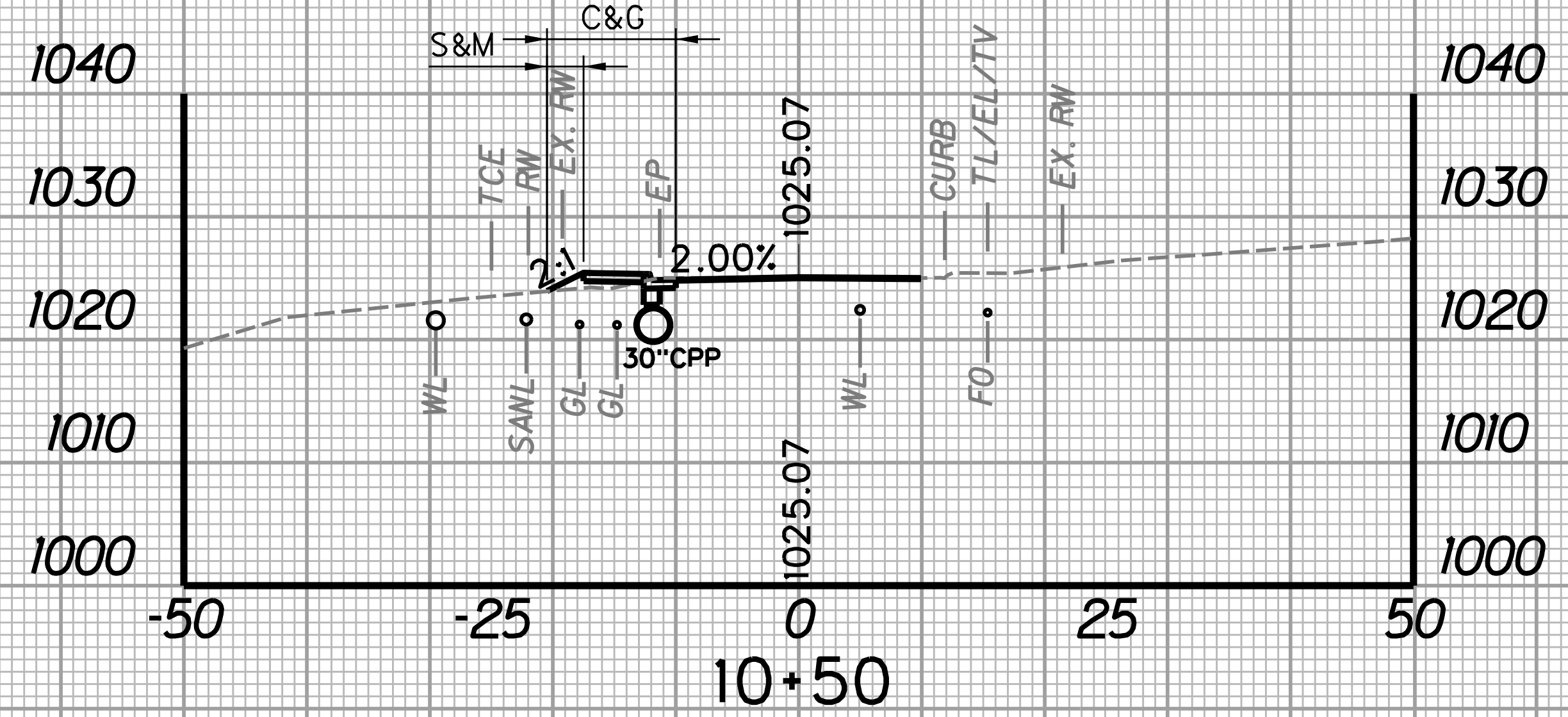
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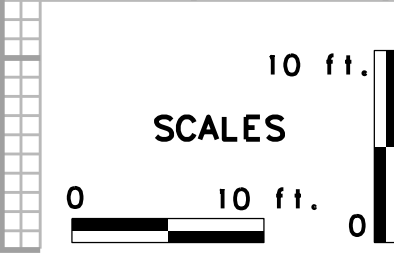
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION		
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY	
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY	
10+50		3.0		10.5		4.2		3.7		0.0		0.0
10+75	25	1.5	56.3	8.9	242.5	3.2	3.4	2.8	3.0	0.0	0.0	

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION		
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY	
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY	
11+00		1.8		9.4		3.0		3.2		0.0		0.0
11+25	25	2.4	53.1	9.9	241.3	2.6	2.6	5.2	3.9	0.0	0.0	



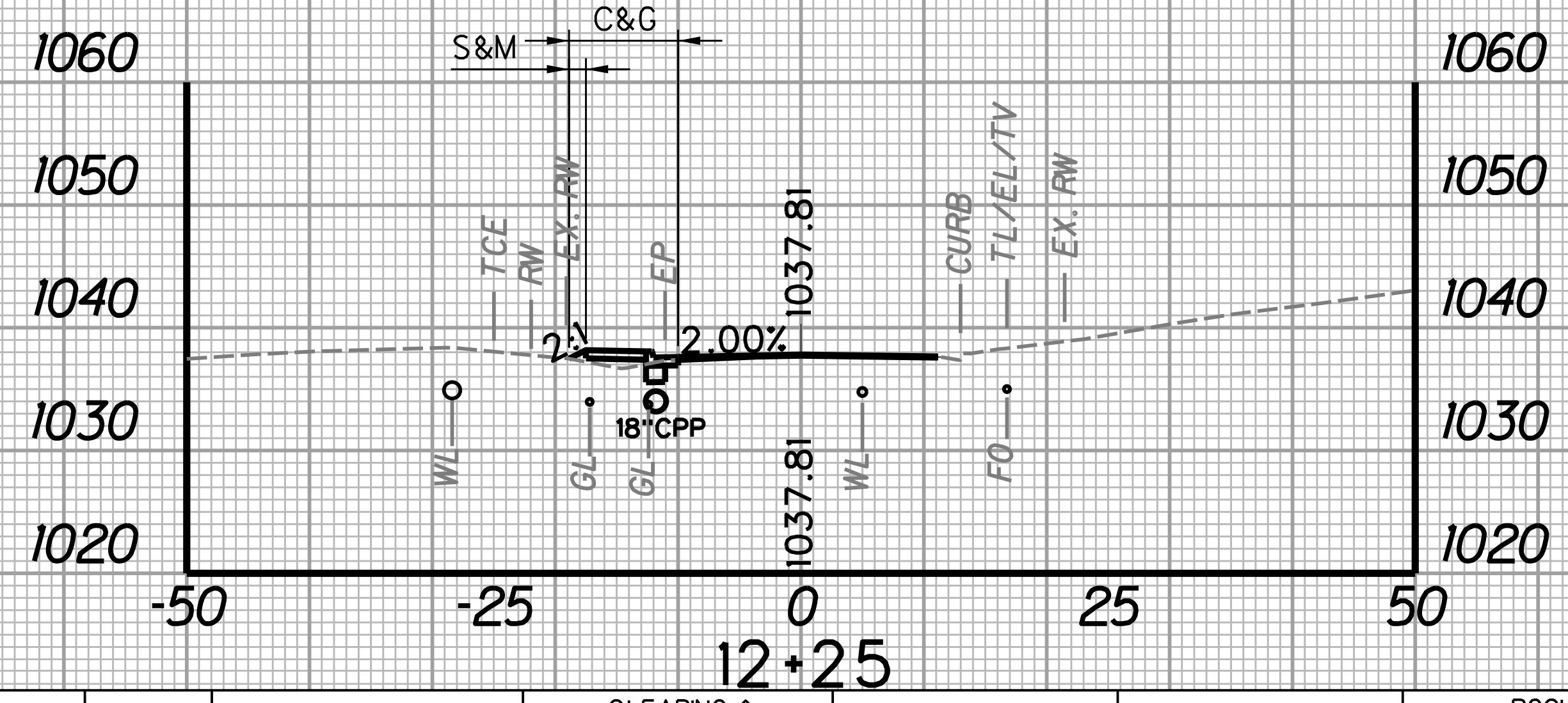
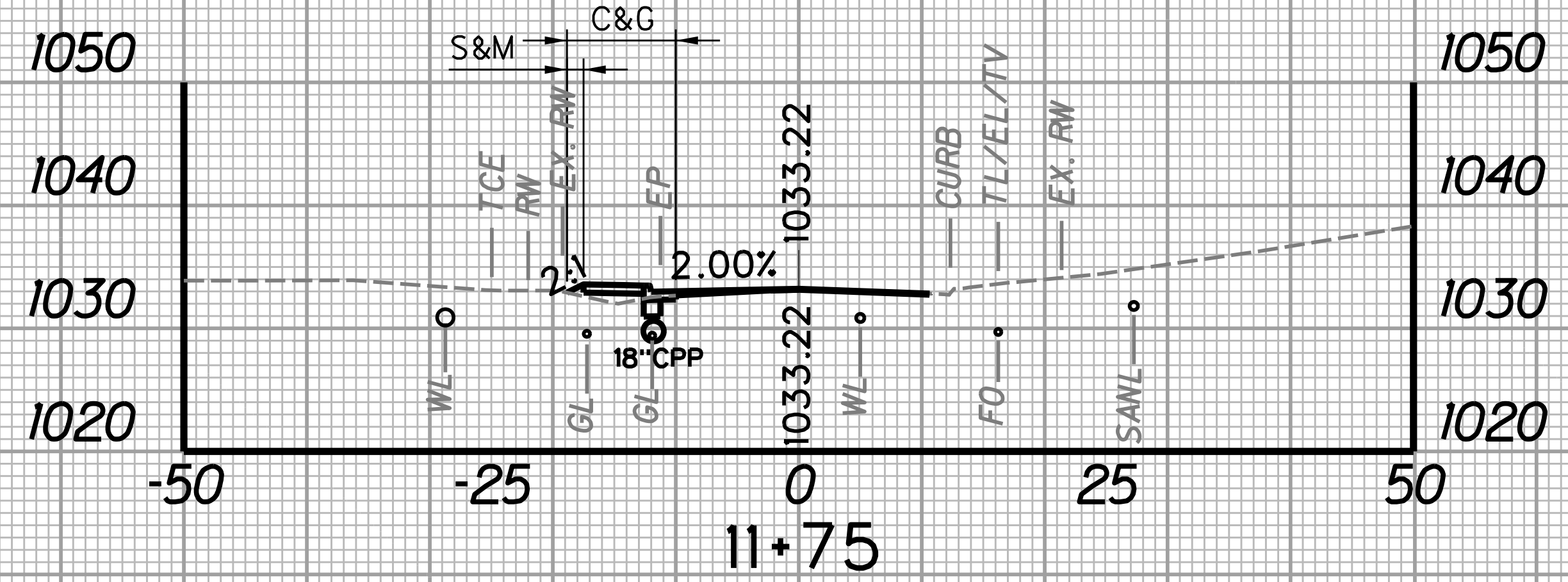
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION		
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY	
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY	
10+25		1.8		9.3		3.0		3.2		0.0		0.0
10+50	25	3.0	60.4	10.5	247.5	4.2	3.3	3.7	3.2	0.0	0.0	

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION		
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY	
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY	
10+75		1.5		8.9		3.2		2.8		0.0		0.0
11+00	25	1.8	41.7	9.4	228.8	3.0	2.9	3.2	2.8	0.0	0.0	



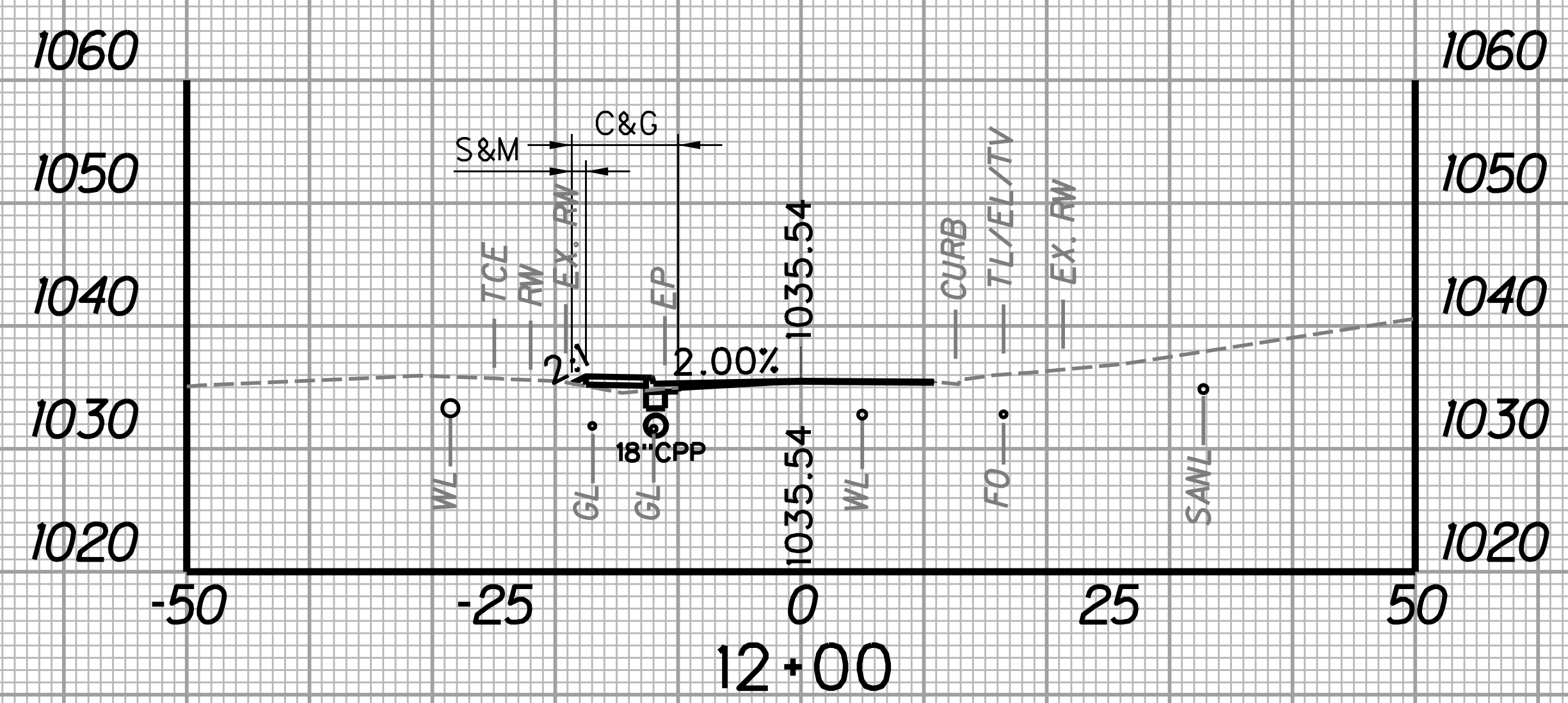
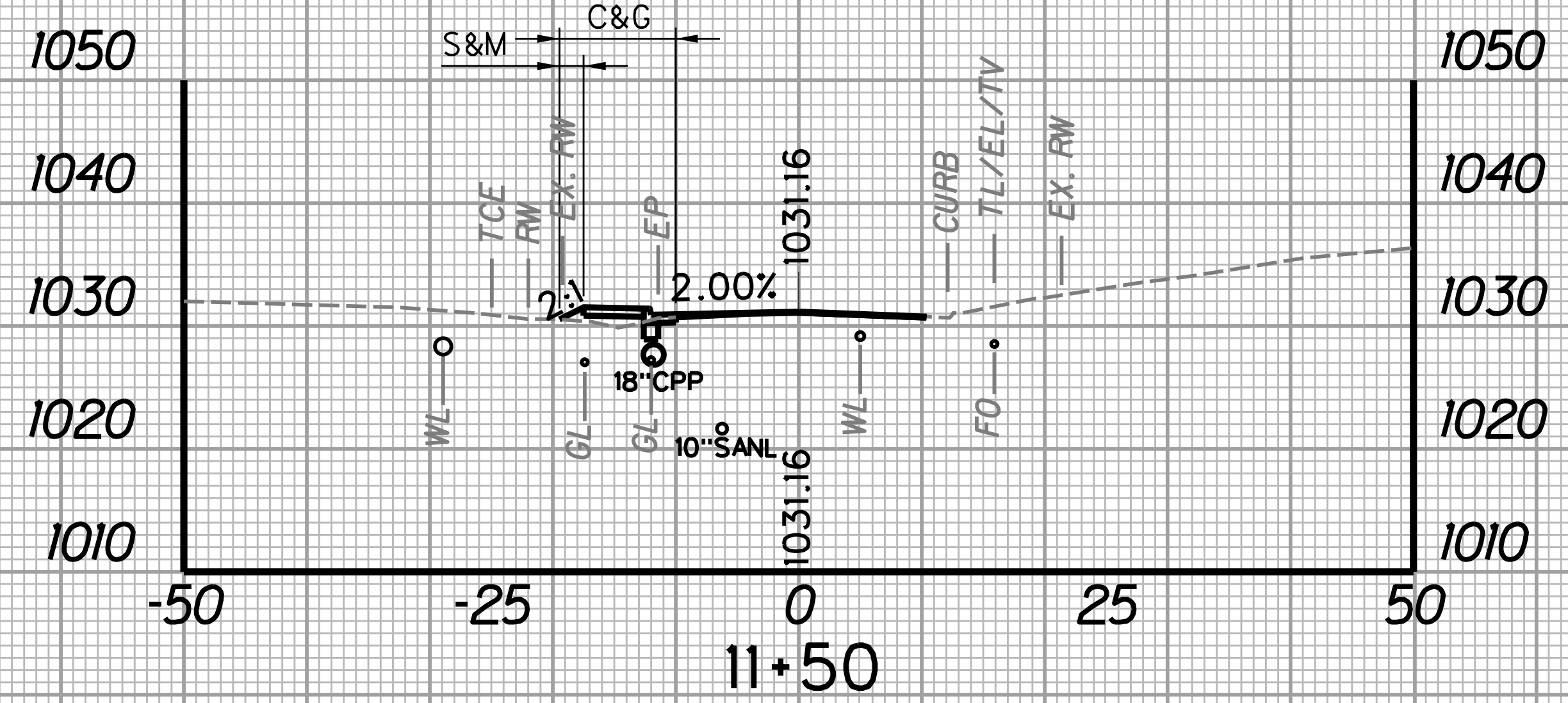
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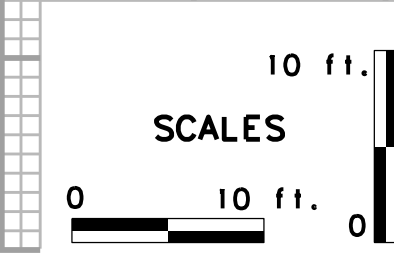
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
11+50	25	2.0	42.5	9.5	225.0	2.4	2.3	4.5	3.7	0.0	0.0
11+75	1.4	1.4		8.5		2.5		3.4		0.0	

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
12+00	25	1.2	32.5	8.6	218.8	2.5	2.5	2.6	2.7	0.0	0.0
12+25	1.4	1.4		8.9		2.9		3.2		0.0	



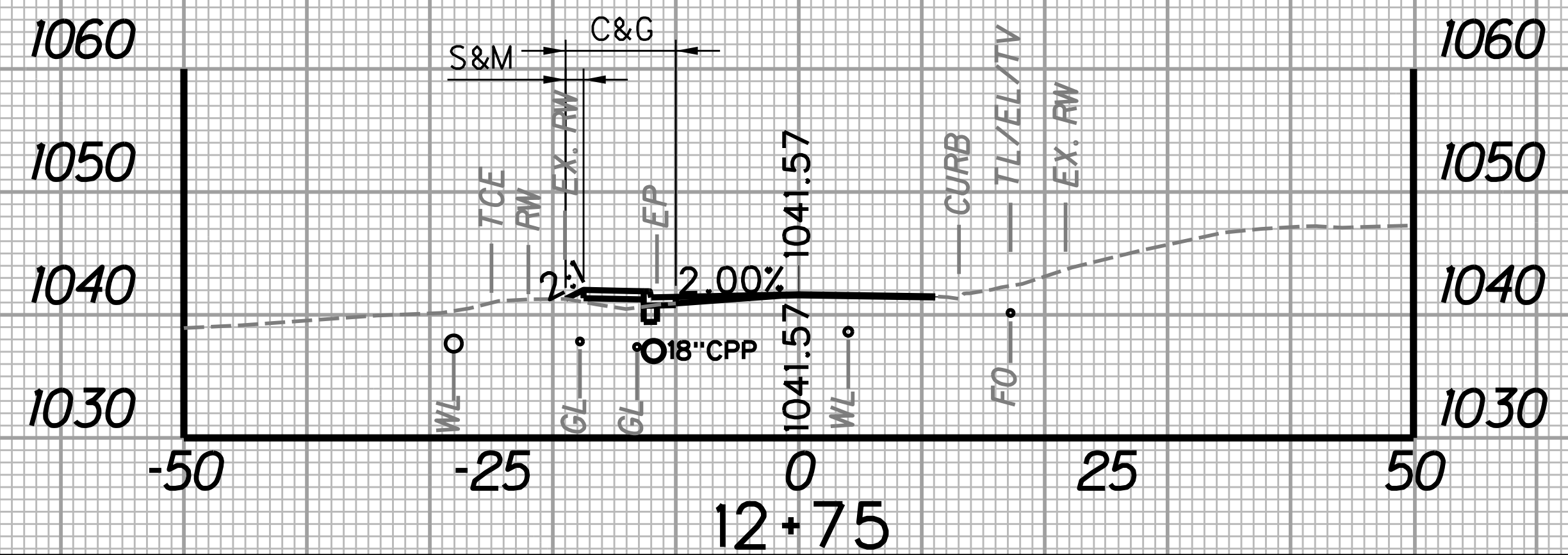
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
11+25	25	2.4	55.2	9.9	242.5	2.6	2.3	5.2	4.5	0.0	0.0
11+50	2.0	2.0		9.5		2.4		4.5		0.0	

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
11+75	25	1.4	32.5	8.5	213.8	2.5	2.3	3.4	2.8	0.0	0.0
12+00	1.2	1.2		8.6		2.5		2.6		0.0	

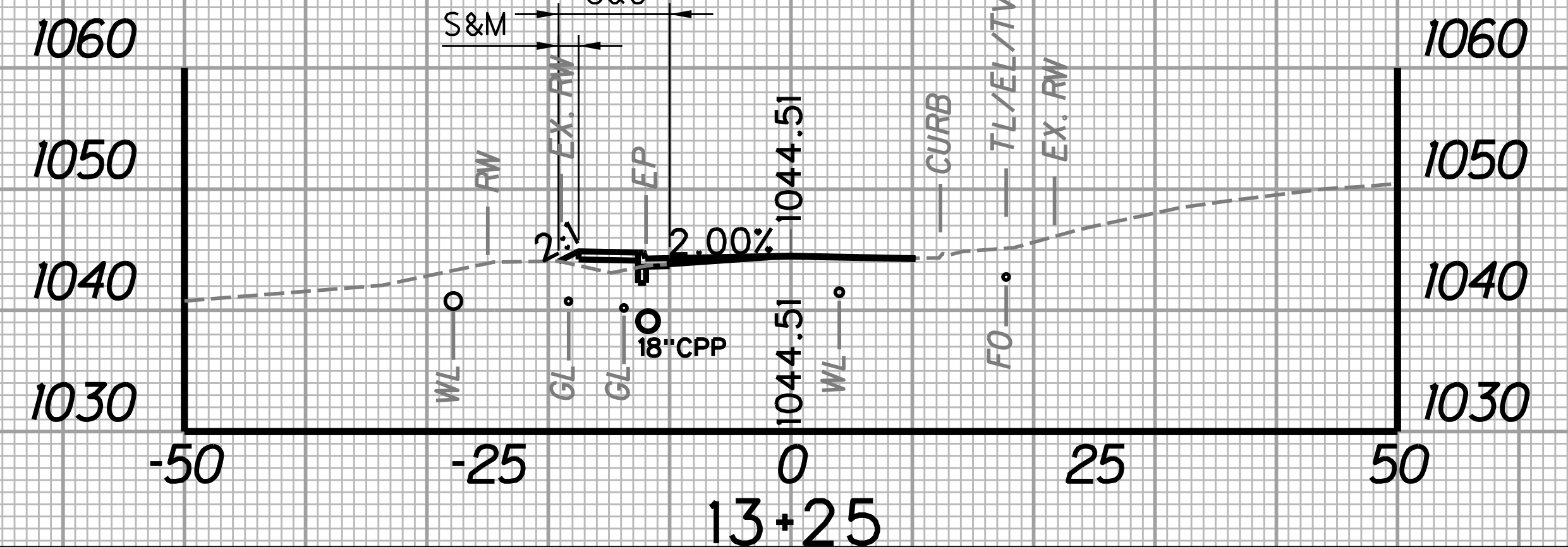


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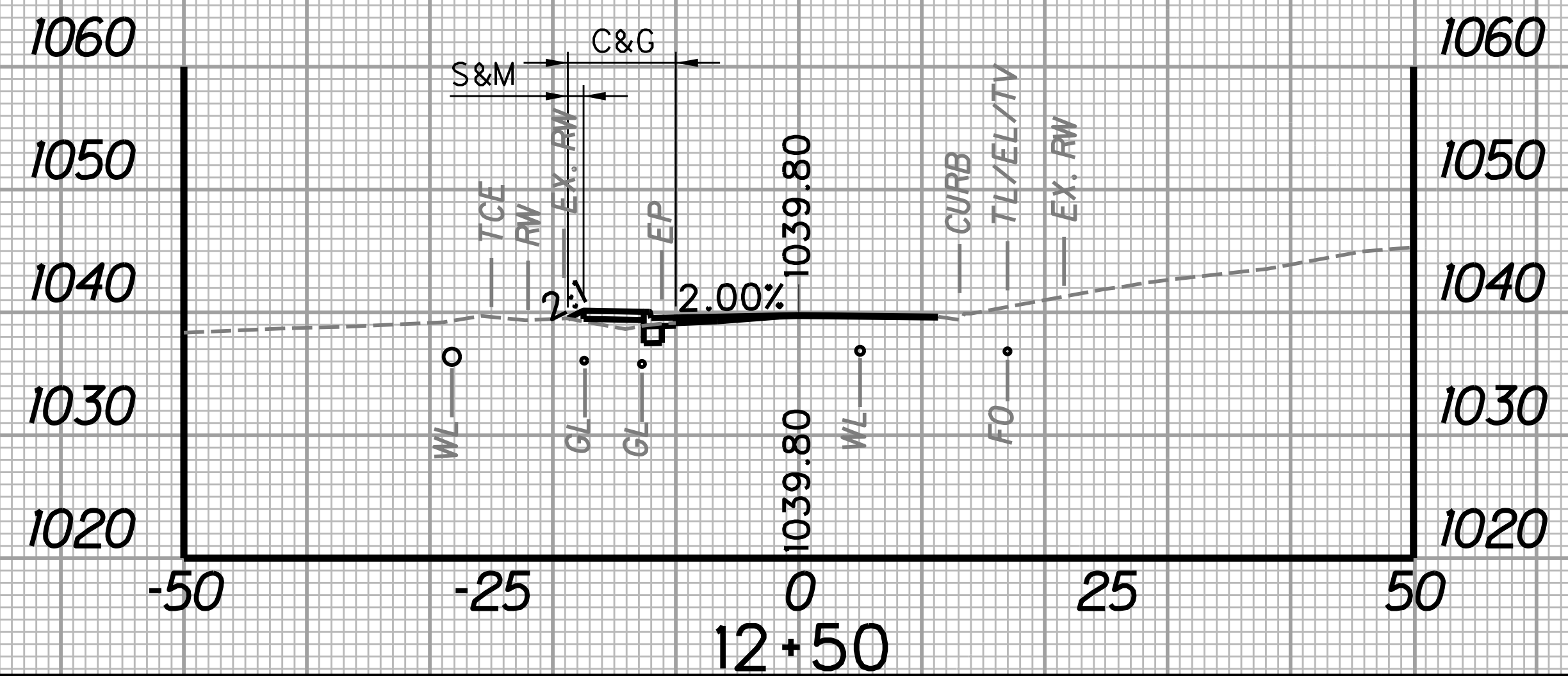
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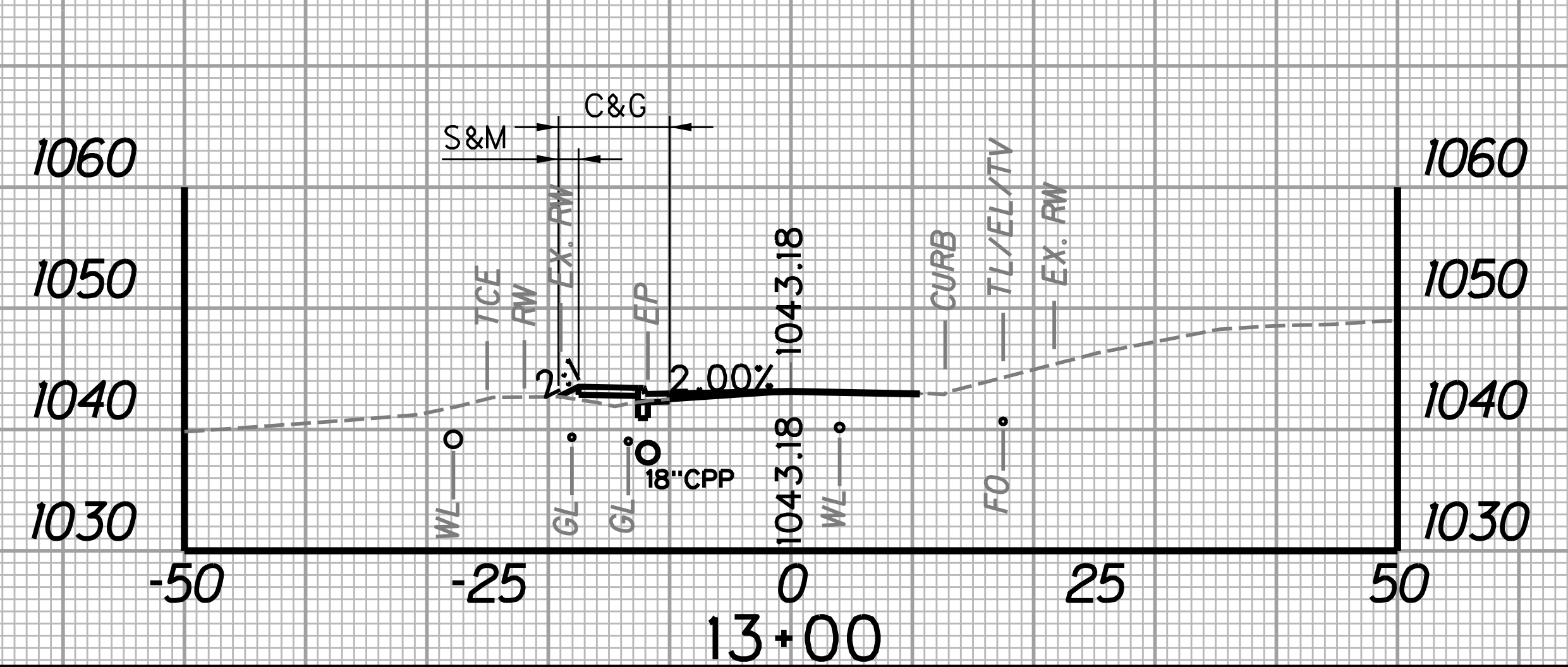
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF						
12+50	25	1.3	33.8	8.8	221.3	2.5	1.9	3.1	3.1	0.0	0.0
12+75	25	1.4	33.8	8.9	221.3	1.6	1.9	3.7	3.1	0.0	0.0



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF						
13+00	25	1.6	40.0	9.2	230.0	1.3	1.1	3.7	4.2	0.0	0.0
13+25	25	1.6	40.0	9.2	230.0	1.1	1.1	4.9	4.2	0.0	0.0

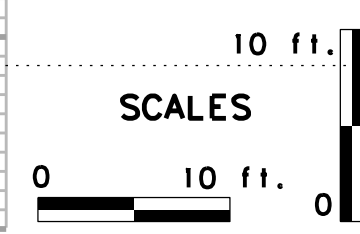


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF						
12+25	25	1.4	16.5	8.9	455.4	2.9	2.5	3.2	2.9	0.0	0.0
12+50	25	1.3	16.5	8.8	455.4	2.5	2.5	3.1	2.9	0.0	0.0

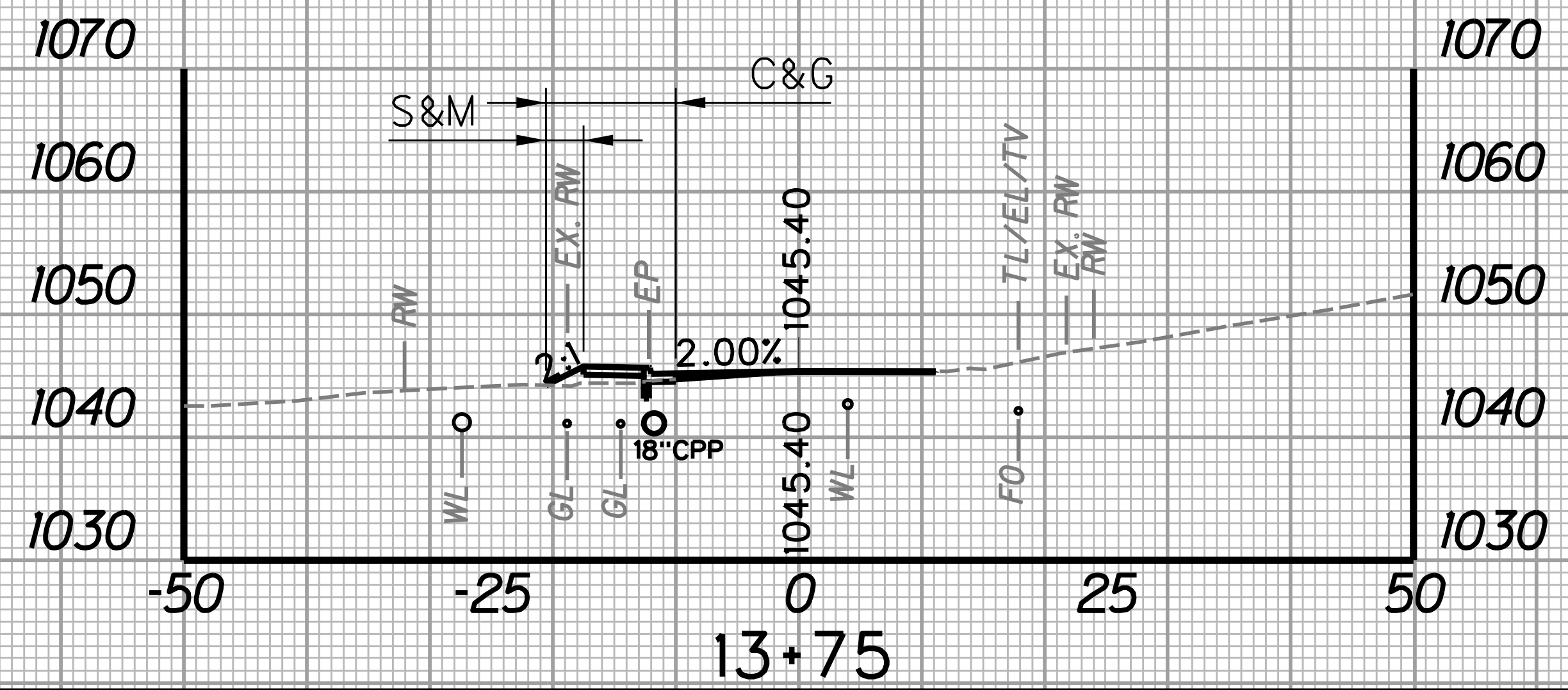


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF						
12+75	25	1.4	37.5	8.9	226.3	1.6	1.3	3.7	3.6	0.0	0.0
13+00	25	1.6	37.5	9.2	226.3	1.3	1.3	4.1	3.6	0.0	0.0

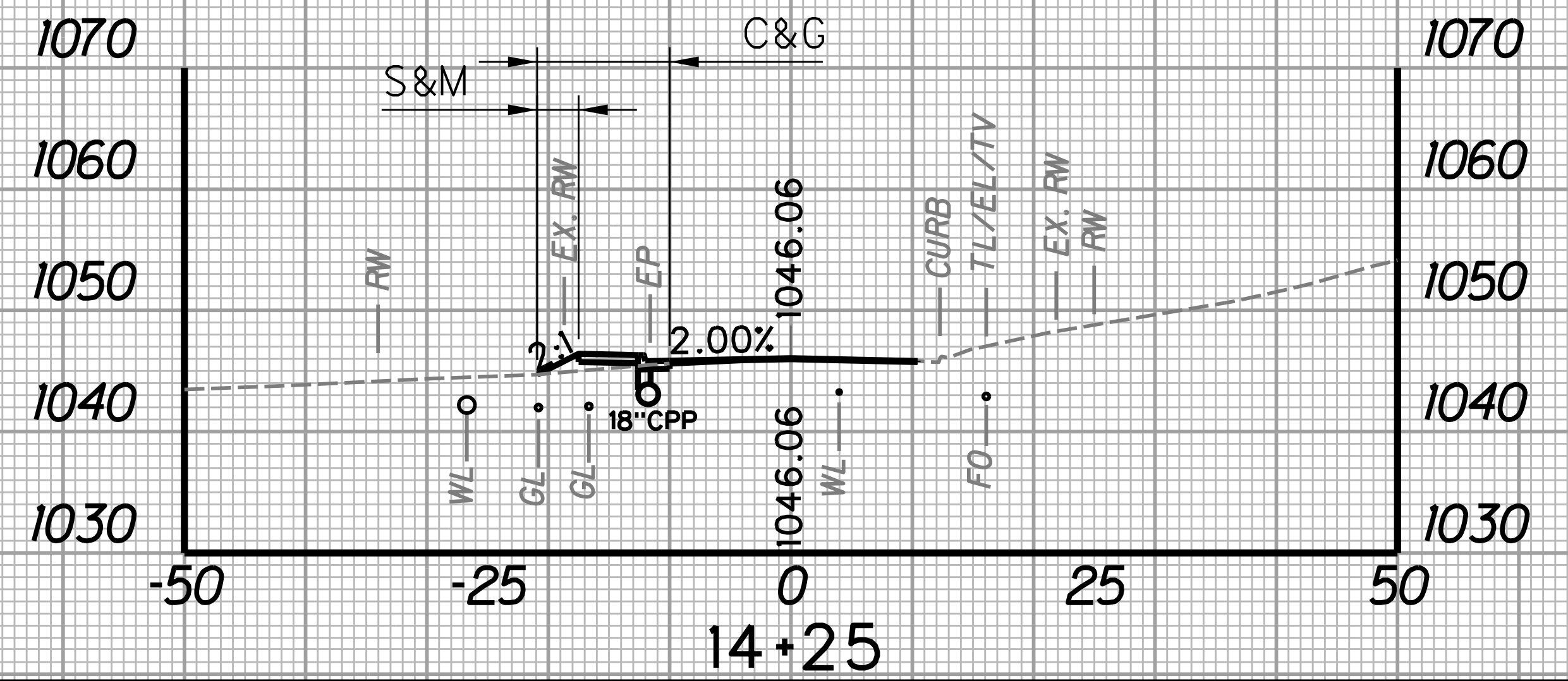
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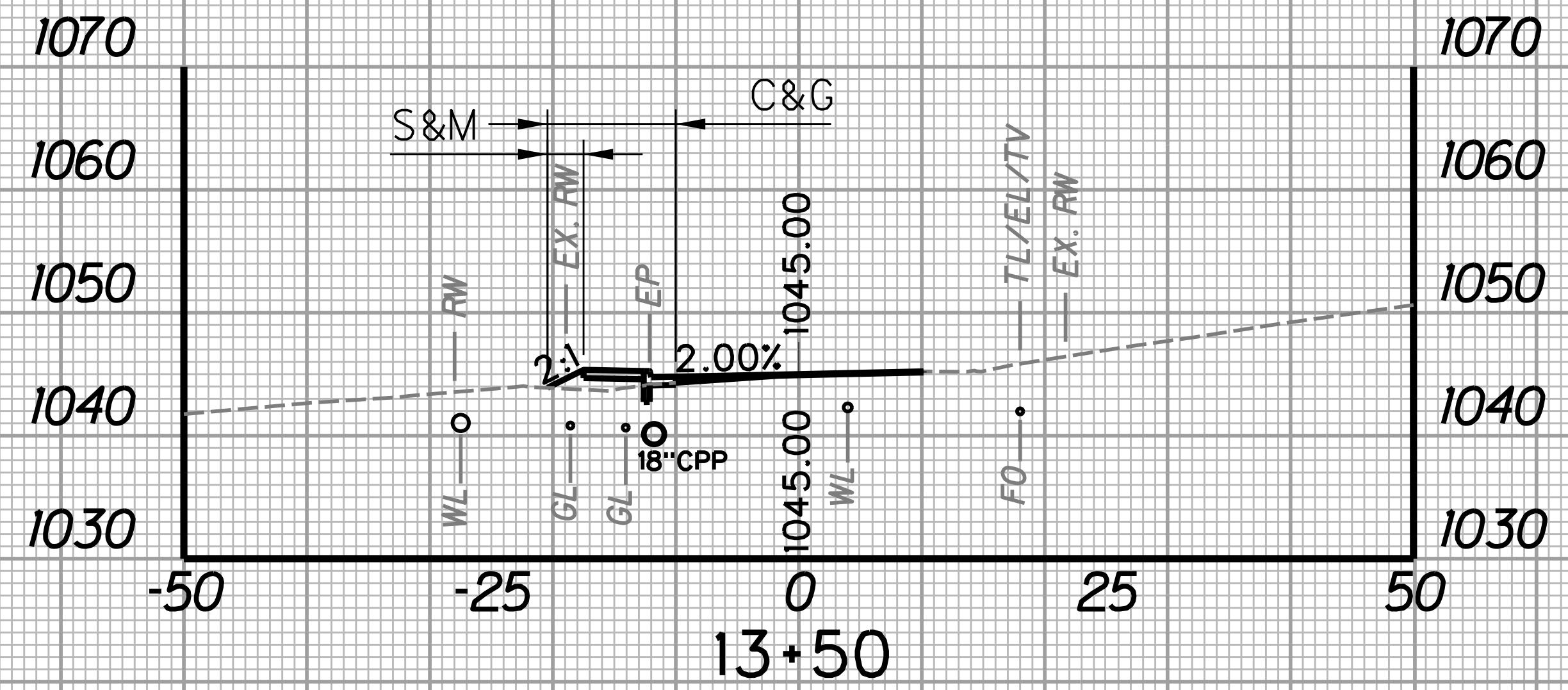
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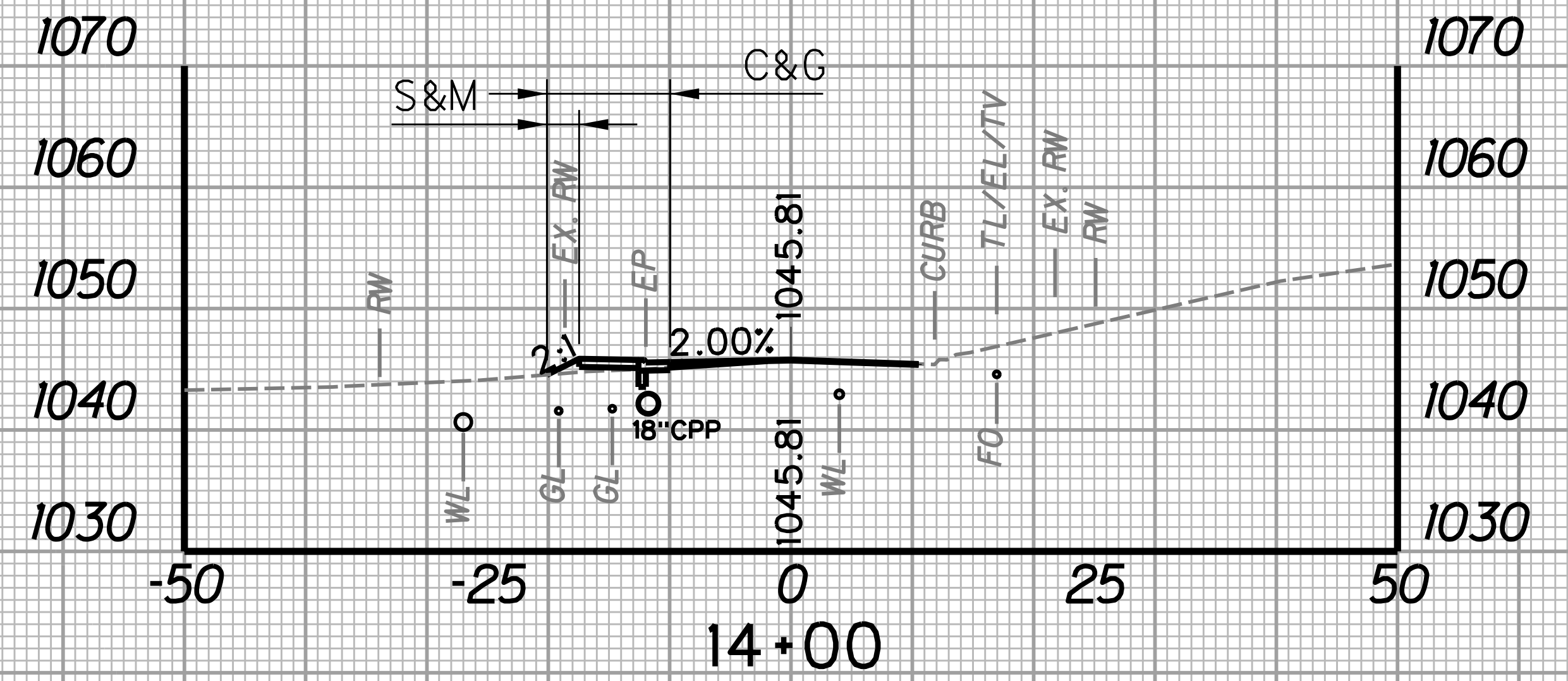
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
13+50		2.9		10.4		1.0		6.4		0.0	
	25		75.0		262.5		0.9		5.5		0.0
13+75		3.1		10.6		0.9		5.4		0.0	



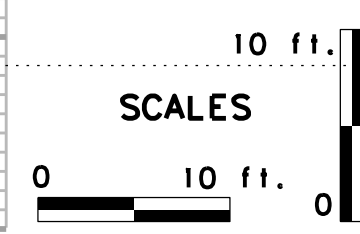
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
14+00		2.7		10.2		1.2		2.8		0.0	
	25		76.3		263.8		1.6		3.3		0.0
14+25		3.4		10.9		2.3		4.3		0.0	



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
13+25		1.6		9.2		1.1		4.9		0.0	
	25		56.3		245.0		1.0		5.2		0.0
13+50		2.9		10.4		1.0		6.4		0.0	

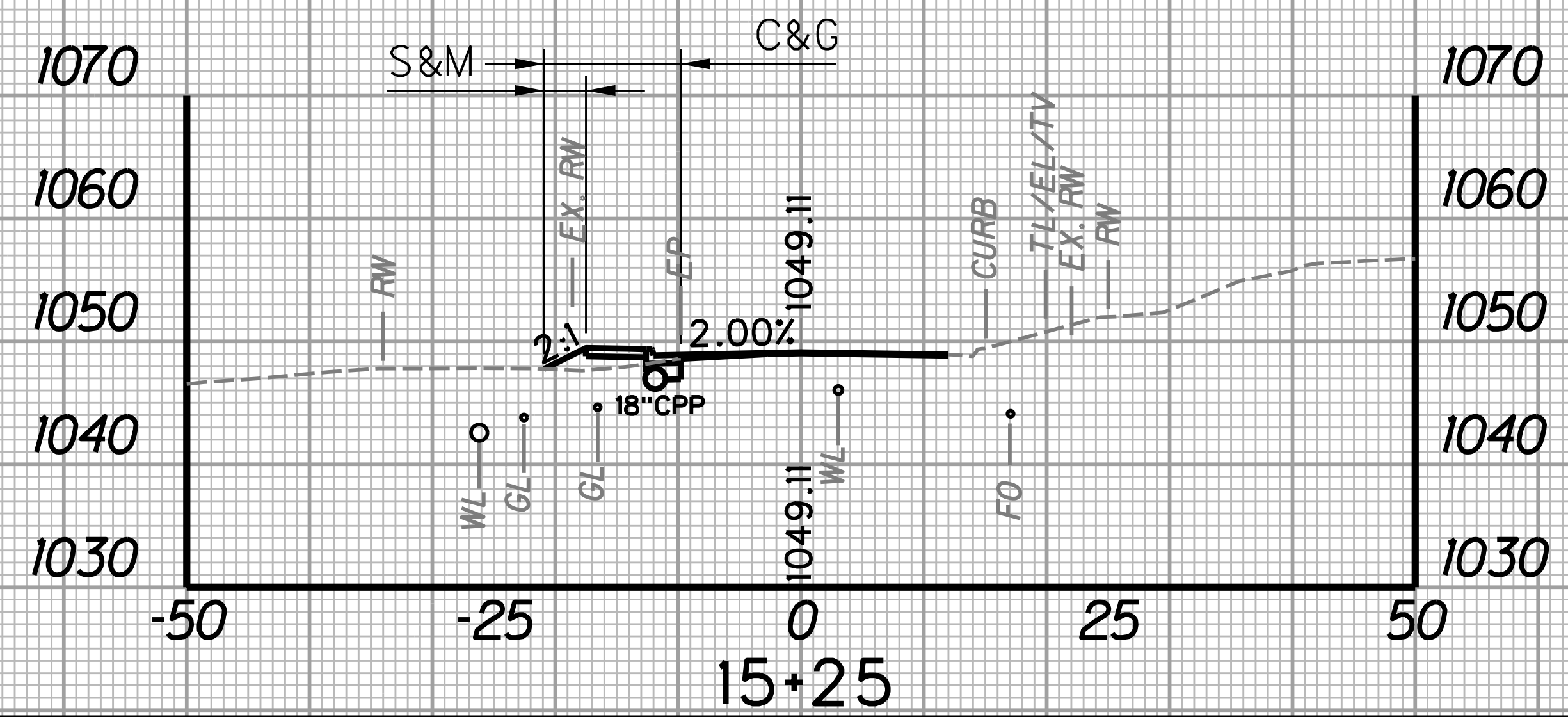
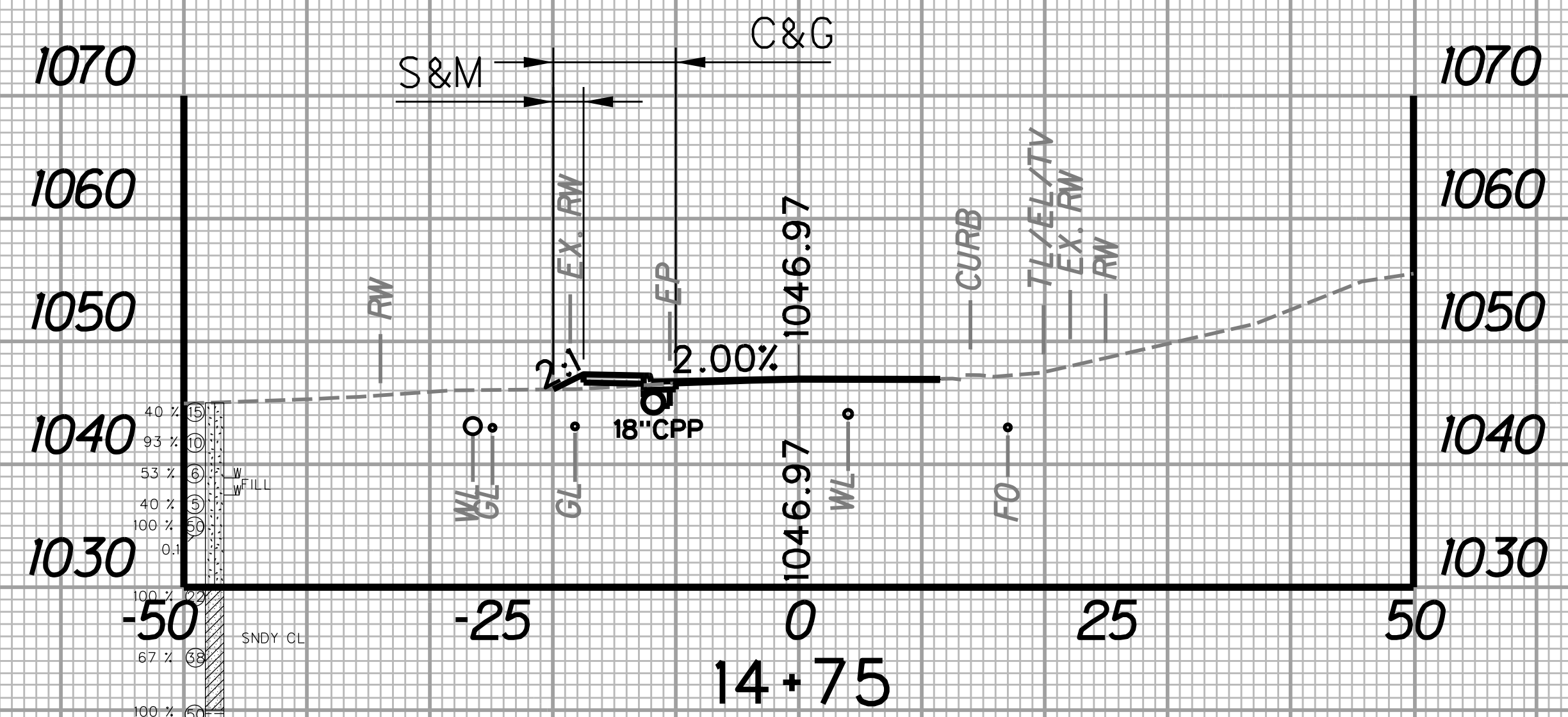


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
13+75		3.1		10.6		0.9		5.4		0.0	
	25		72.5		260.0		1.0		3.8		0.0
14+00		2.7		10.2		1.2		2.8		0.0	



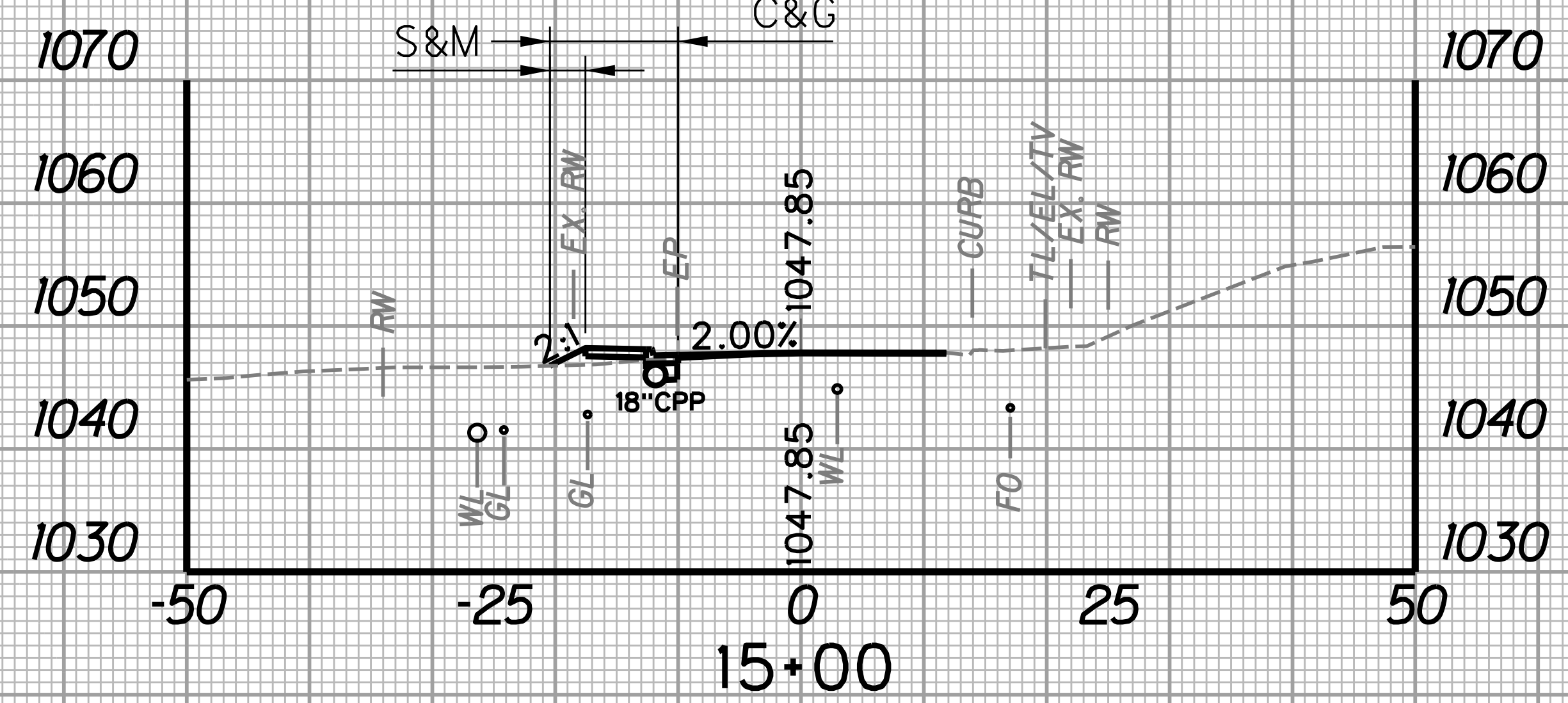
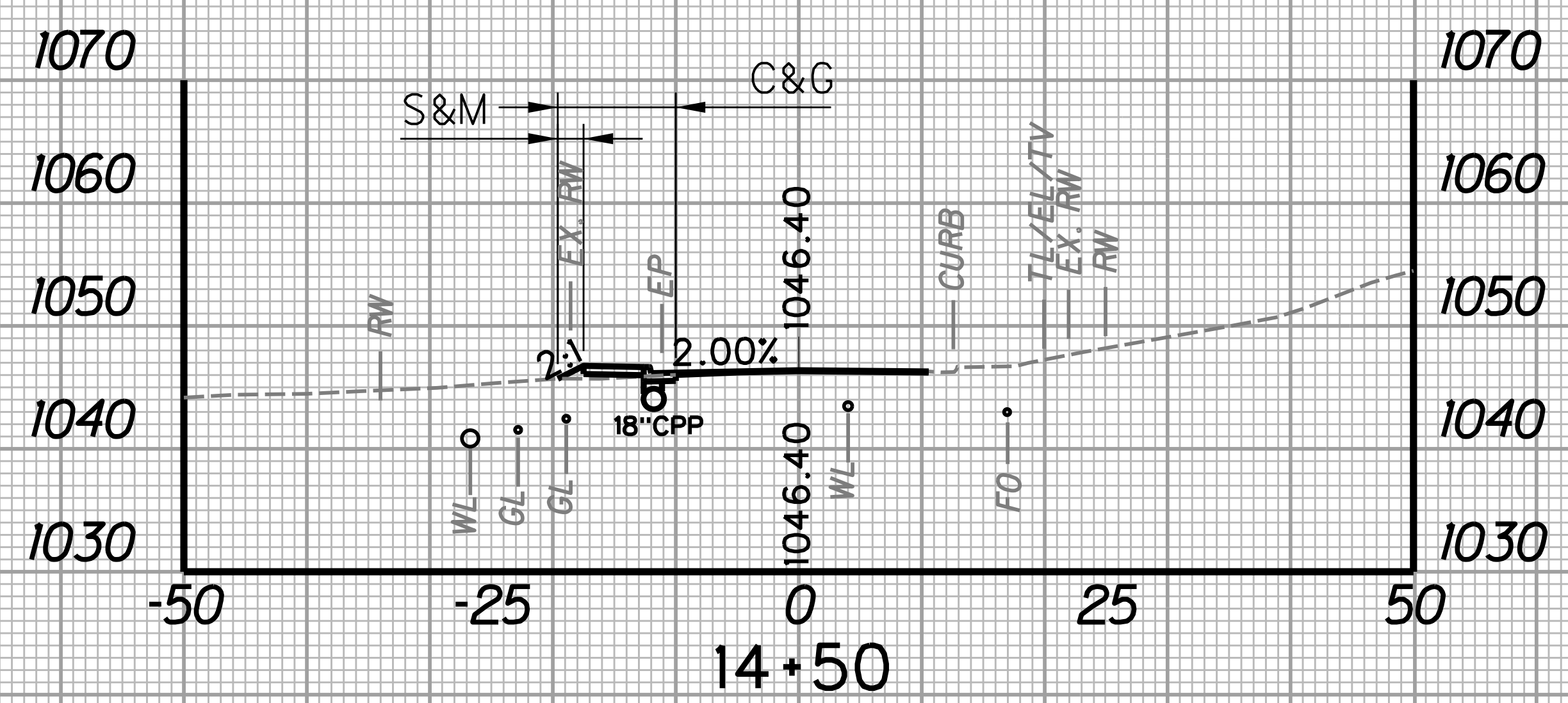
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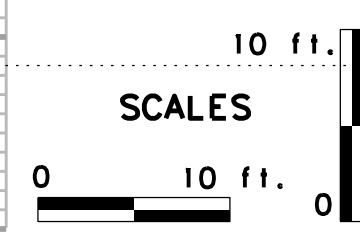
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
14+50		2.1		9.6		2.2		2.3		0.0	
14+75	25	2.5	57.5	10.0	245.0	2.1	2.0	2.9	2.4	0.0	0.0

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
15+00		2.9		10.4		2.5		4.3		0.0	
15+25	25	3.4	78.8	11.2	270.0	2.8	2.5	7.2	5.3	0.0	0.0



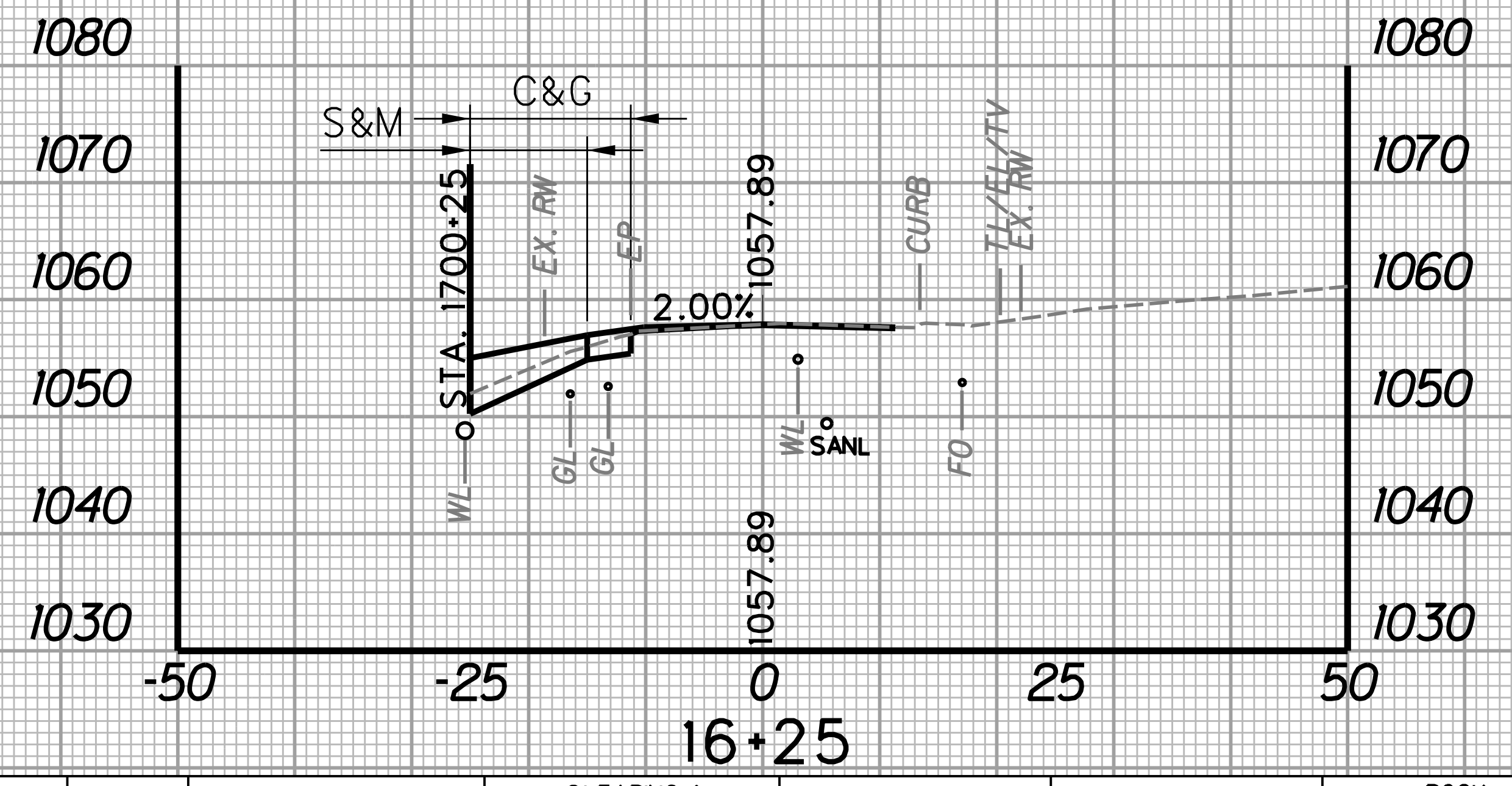
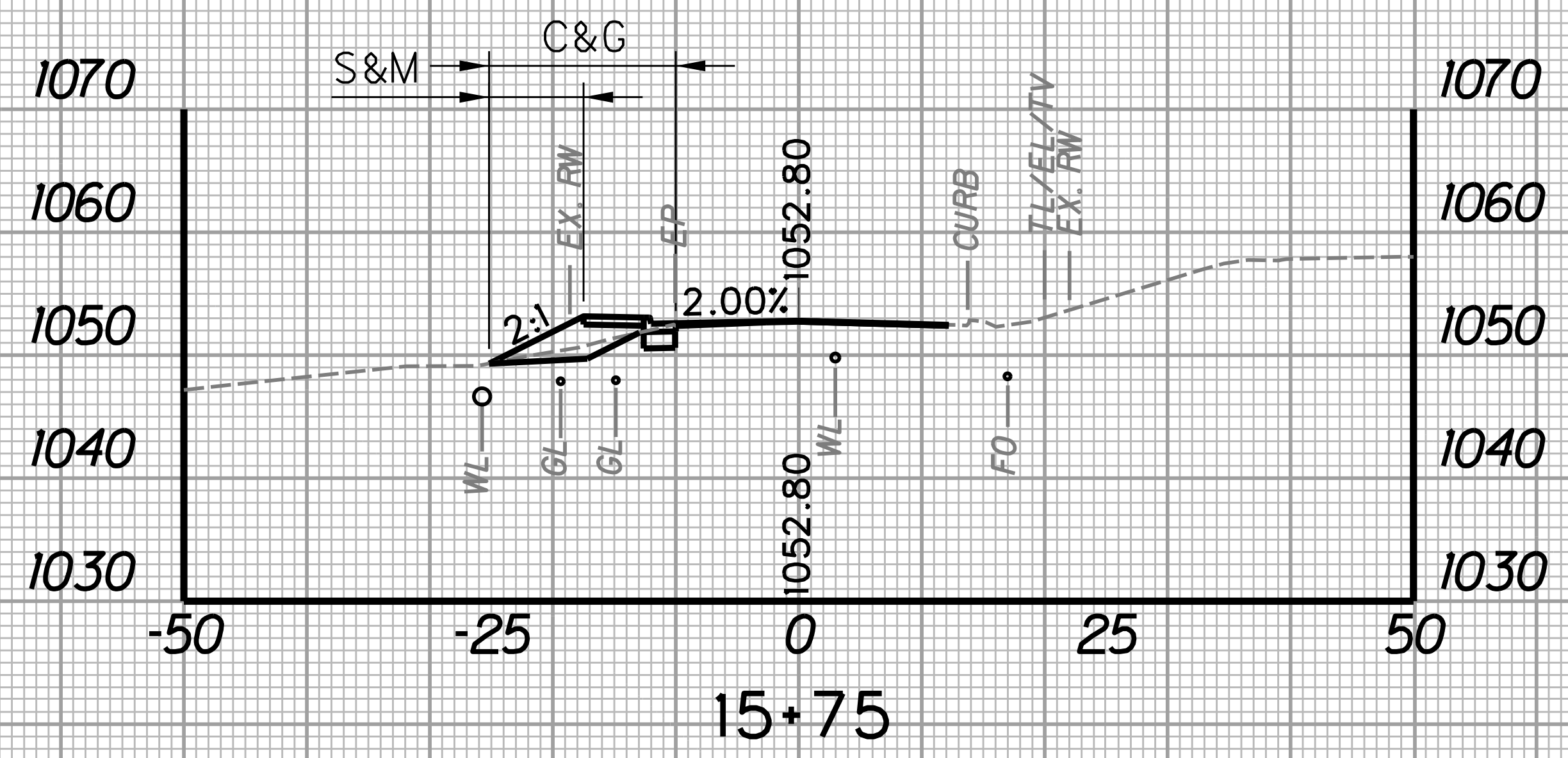
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
14+25		3.4		10.9		2.3		4.3		0.0	
14+50	25	2.1	68.8	9.6	256.3	2.2	2.1	2.3	3.1	0.0	0.0

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
14+75		2.5		10.0		2.1		2.9		0.0	
15+00	25	2.9	67.5	10.4	255.0	2.5	2.1	4.3	3.3	0.0	0.0



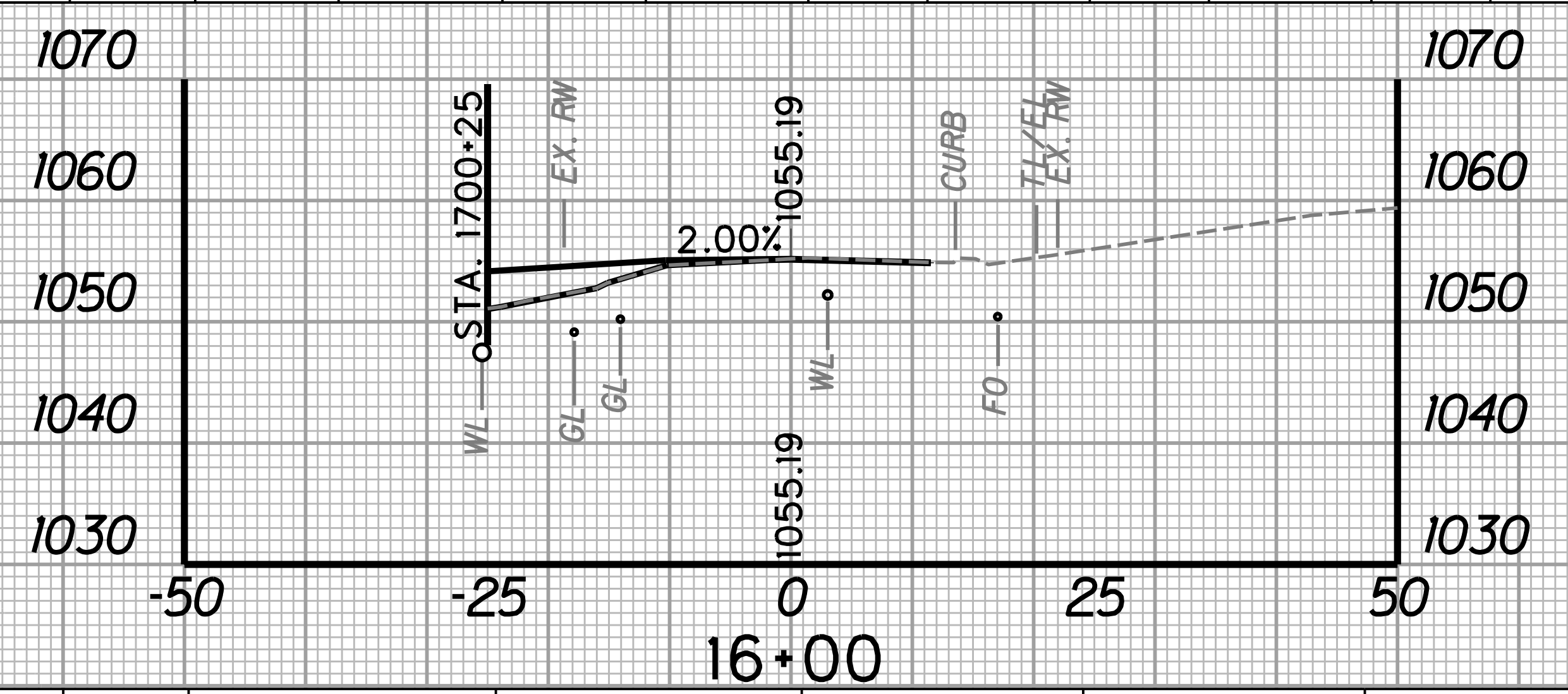
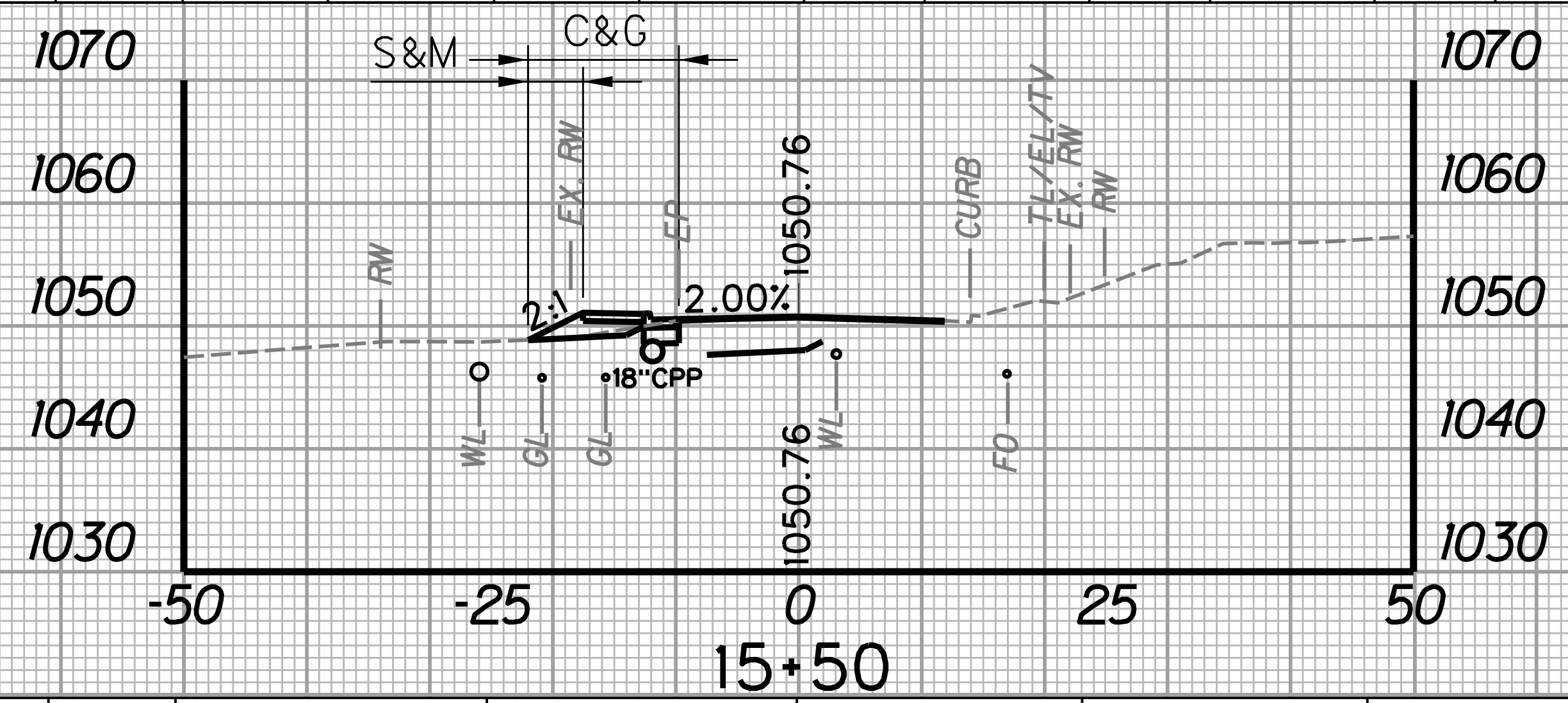
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

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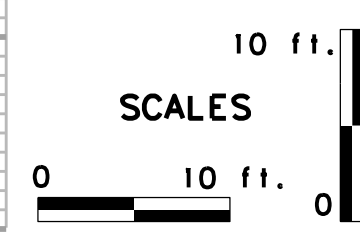
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
15+50	25	4.5	152.5	12.3	343.8	6.1	7.8	8.4	10.7	0.0	0.0
15+75	25	7.7	152.5	15.2	343.8	10.8	7.8	14.8	10.7	0.0	0.0

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
16+00	25	0	125.0	0	172.5	0.0	9.2	0.0	10.3	0.0	0.0
16+25	25	10.0	125.0	13.8	172.5	19.8	9.2	22.2	10.3	0.0	0.0



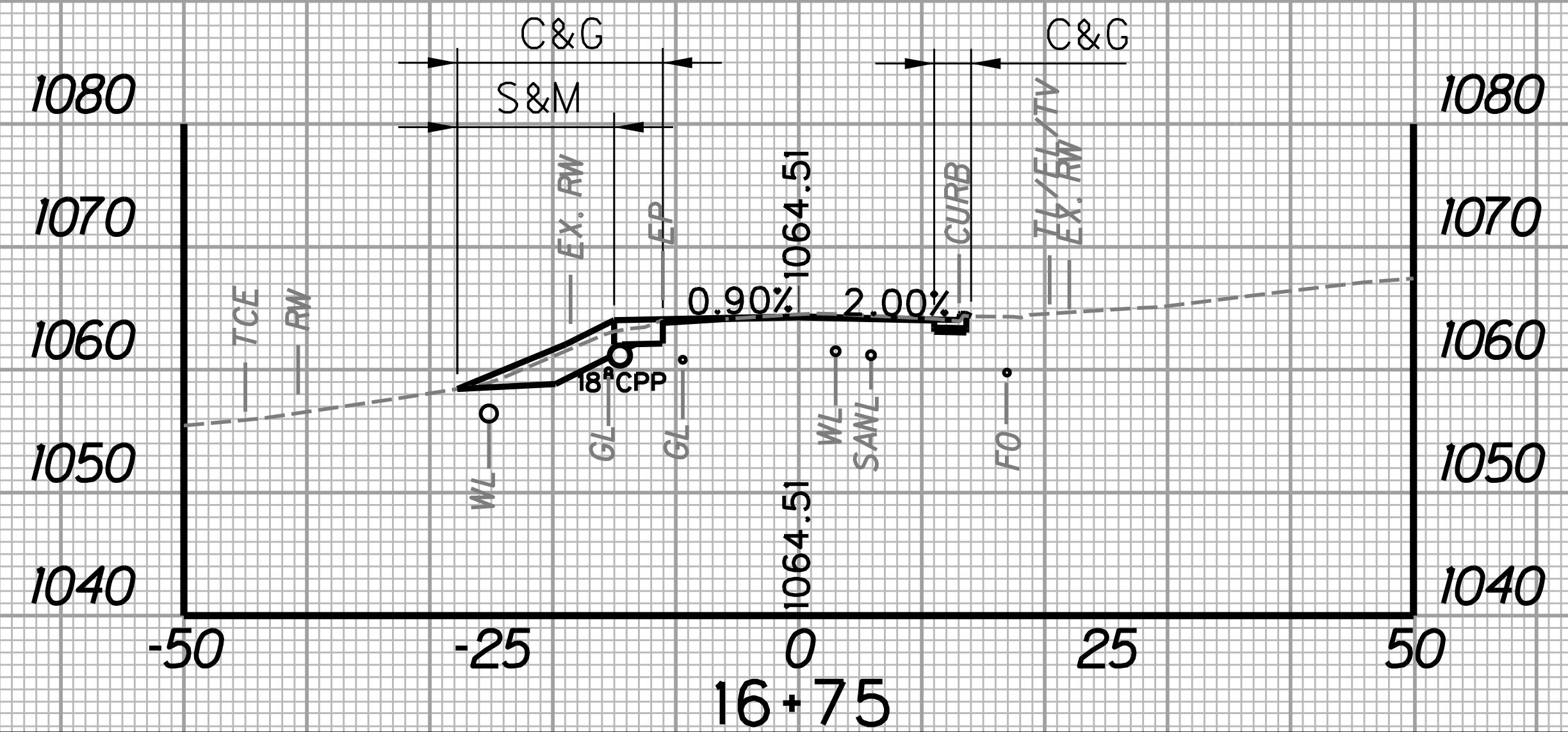
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		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
15+25	25	3.4	98.8	11.2	293.8	2.8	4.1	7.2	7.2	0.0	0.0
15+50	25	4.5	98.8	12.3	293.8	6.1	4.1	8.4	7.2	0.0	0.0

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
15+75	25	7.7	96.3	15.2	190.0	10.8	5.0	14.8	0.0	0.0	0.0
16+00	25	0	96.3	0	190.0	0.0	5.0	0.0	0.0	0.0	0.0

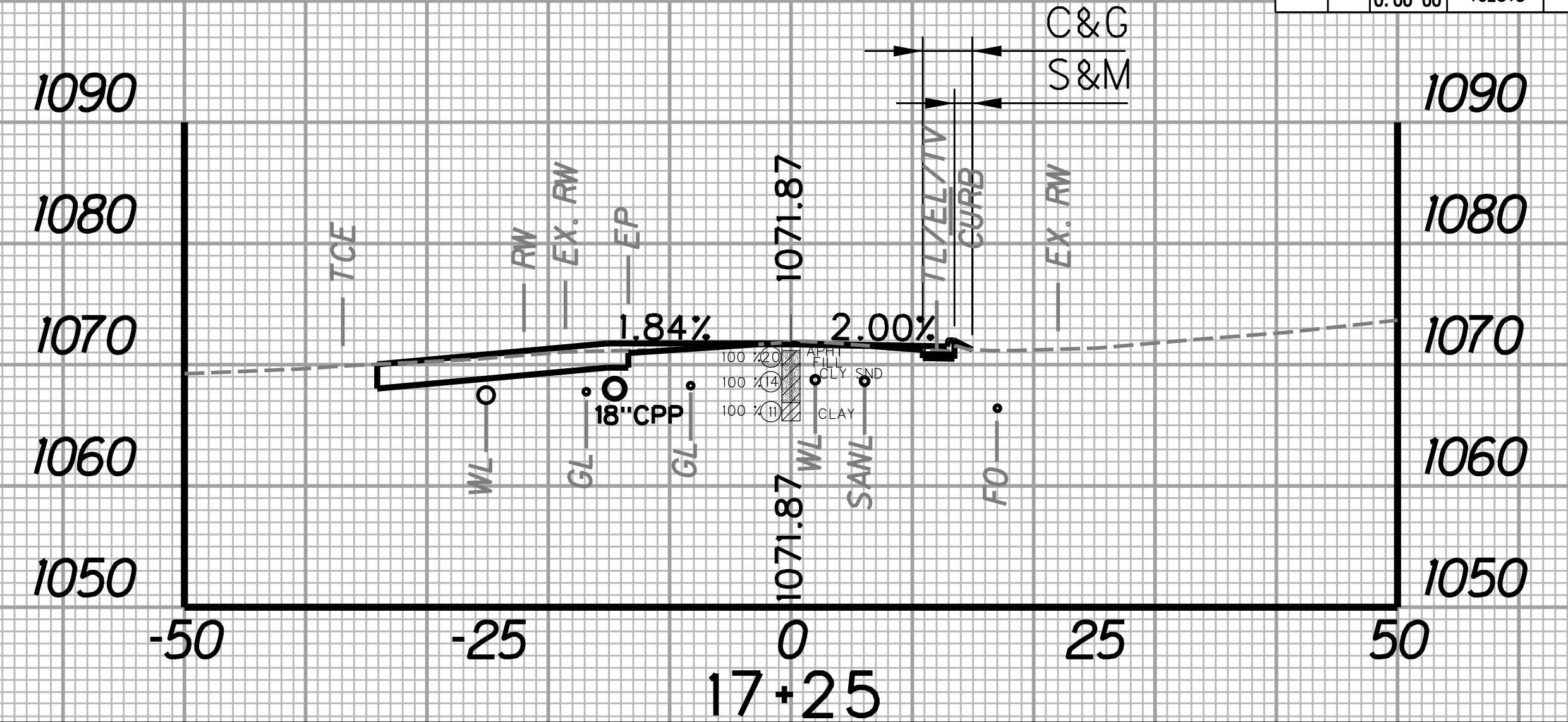


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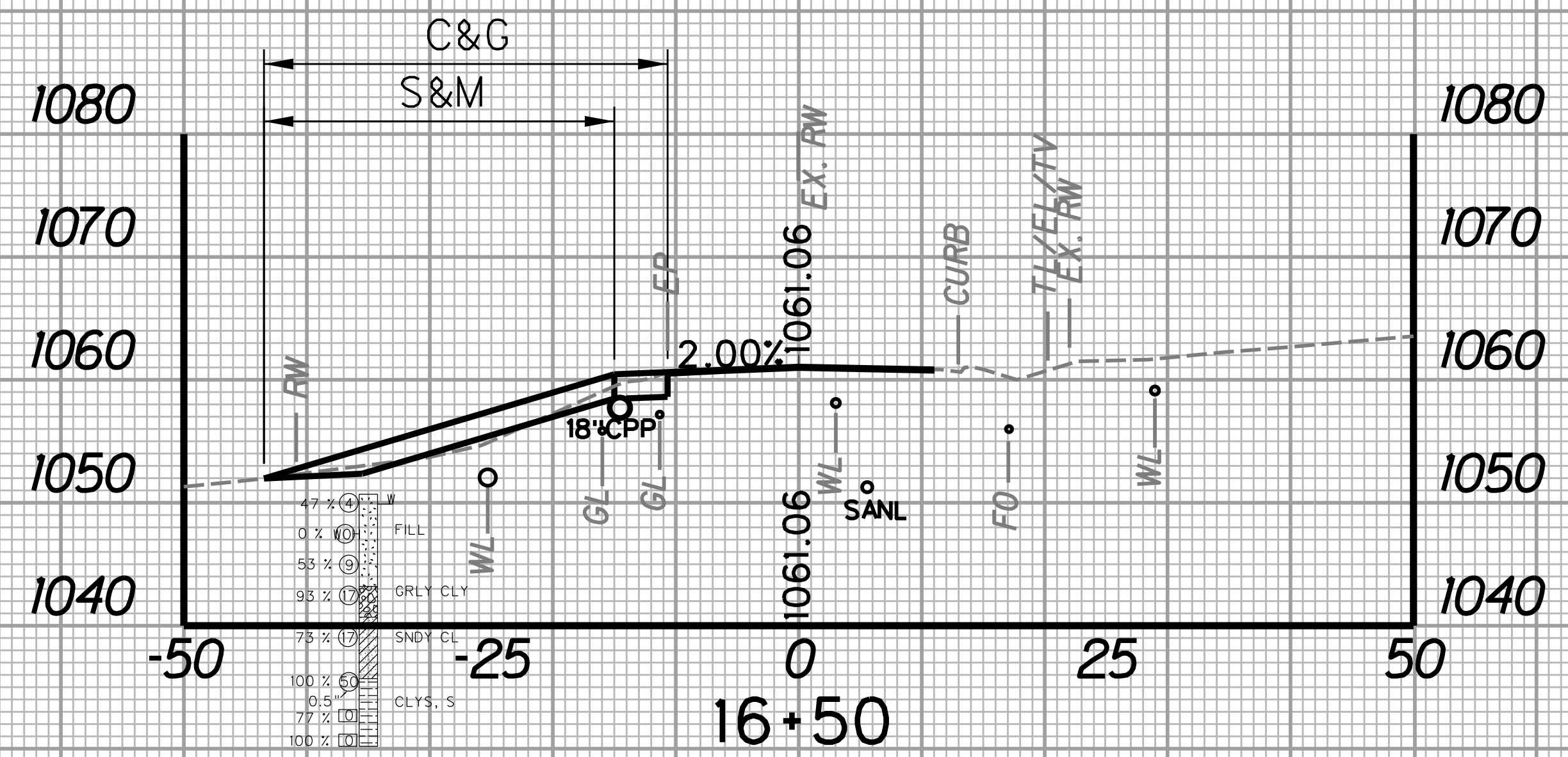
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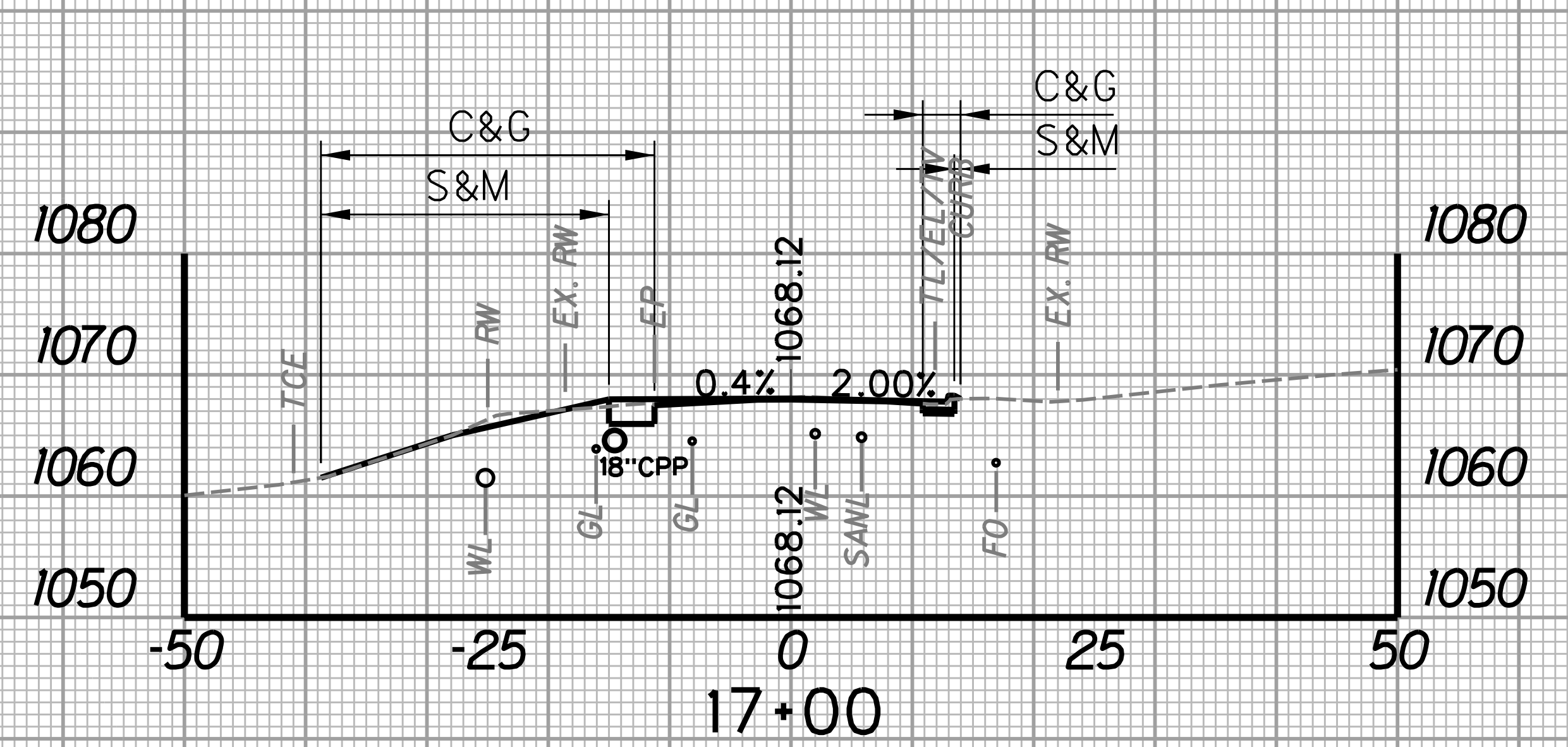
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
16+50	25	28.5	516.3	32.8	656.3	13.1	12.4	46.8	25.0	0.0	0.0
16+75	12.8			19.7		39.0		7.1		0.0	



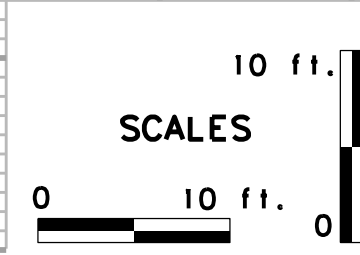
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		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
17+00	25	24.3	322.5	30.6	433.8	10.5	21.5	0.0	0.2	0.0	0.0
17+25	1.5			4.1		35.9		0.4		0.0	



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
16+25	10.0			13.8		19.8		22.2		0.0	
16+50	25	28.5	481.3	32.8	582.5	13.1	15.2	46.8	31.9	0.0	0.0

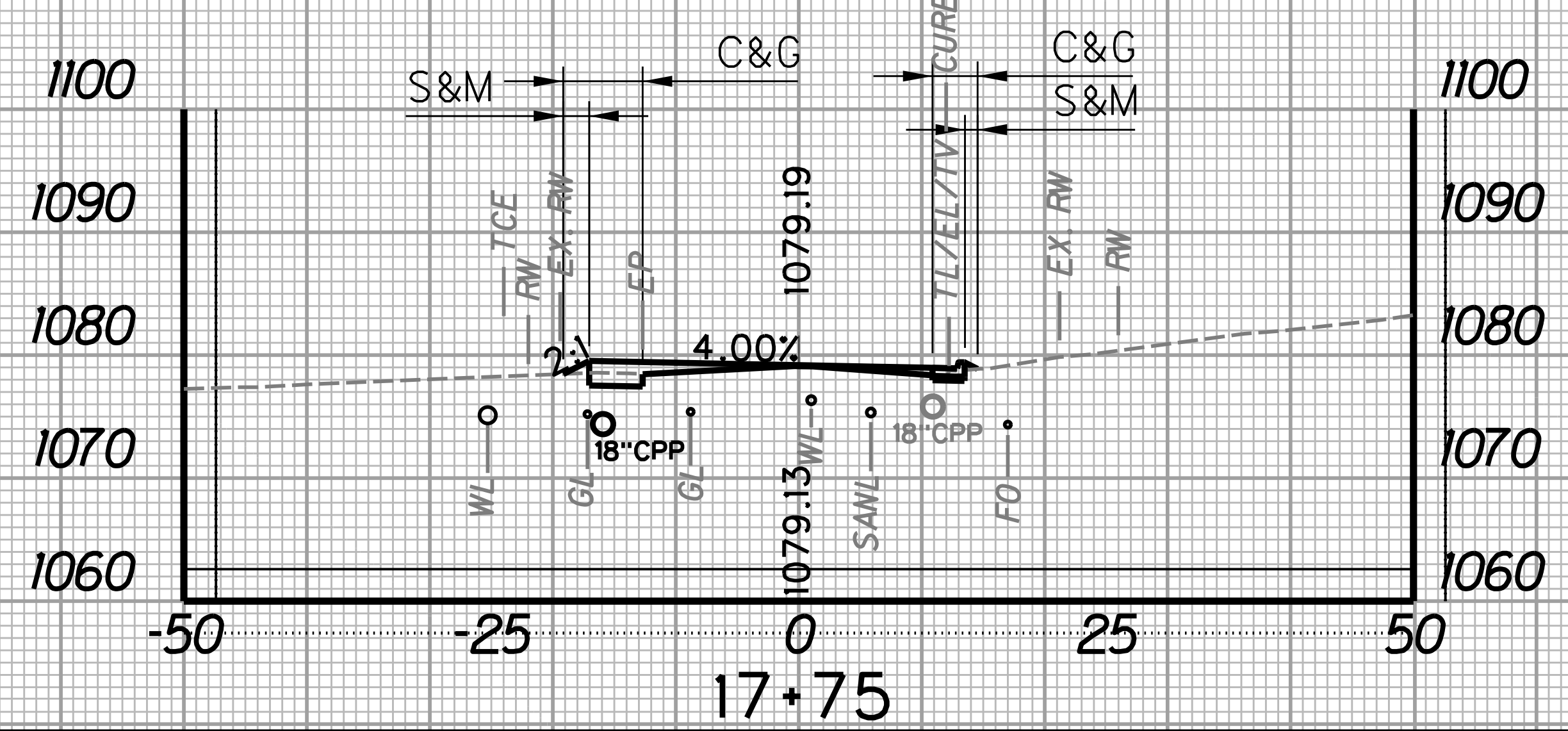


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
16+75	12.8			19.7		20.5		7.1		0.0	
17+00	25	24.3	463.8	30.6	628.8	10.5	14.4	0.0	3.3	0.0	0.0

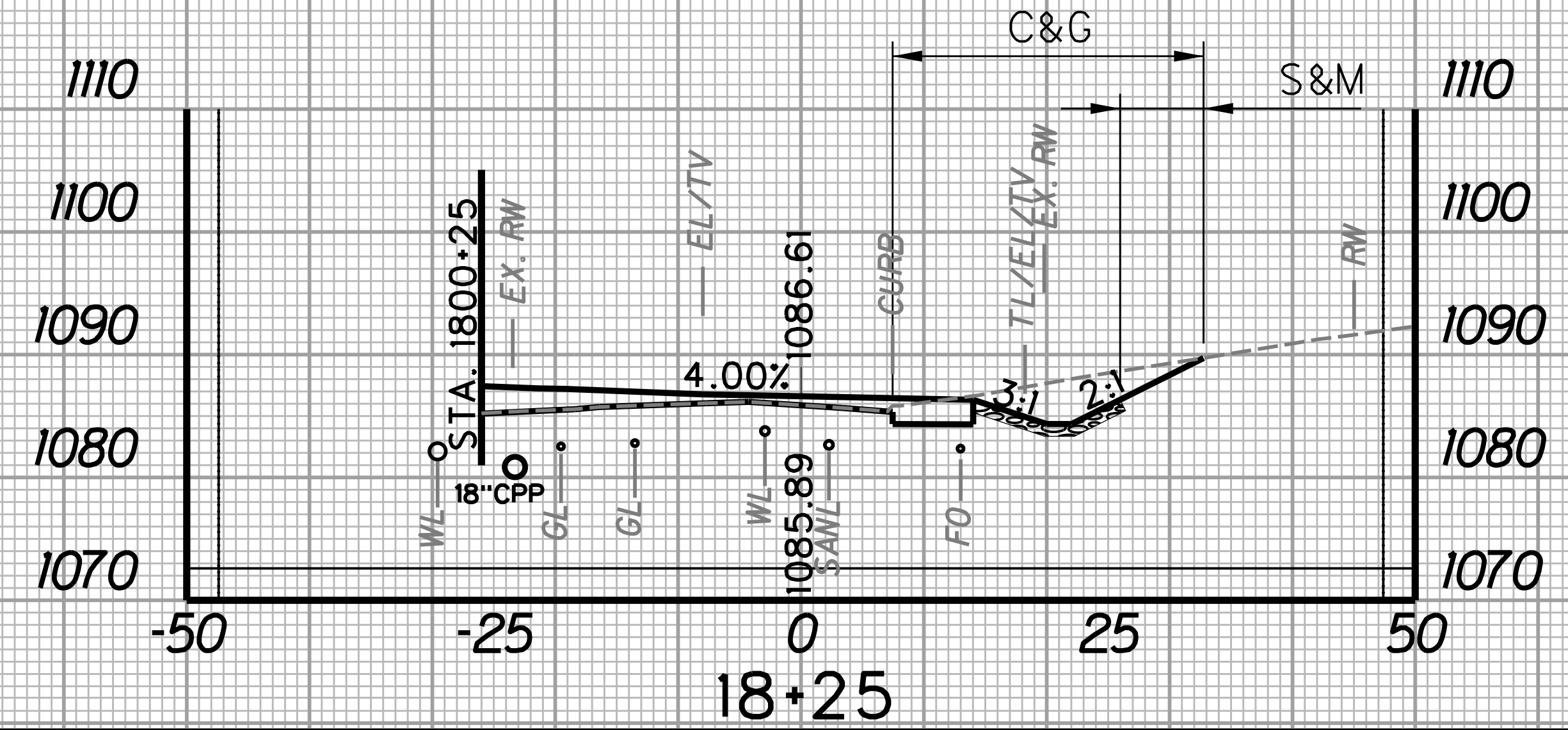


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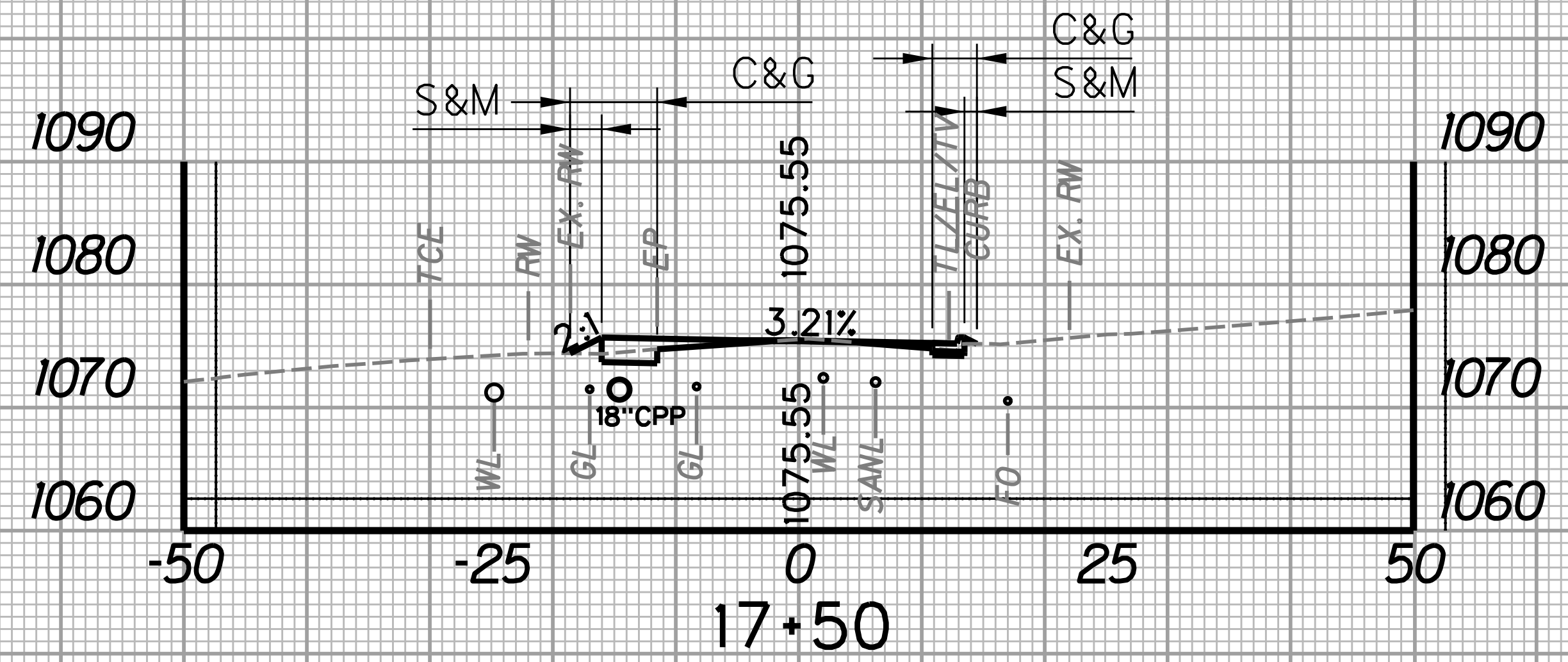
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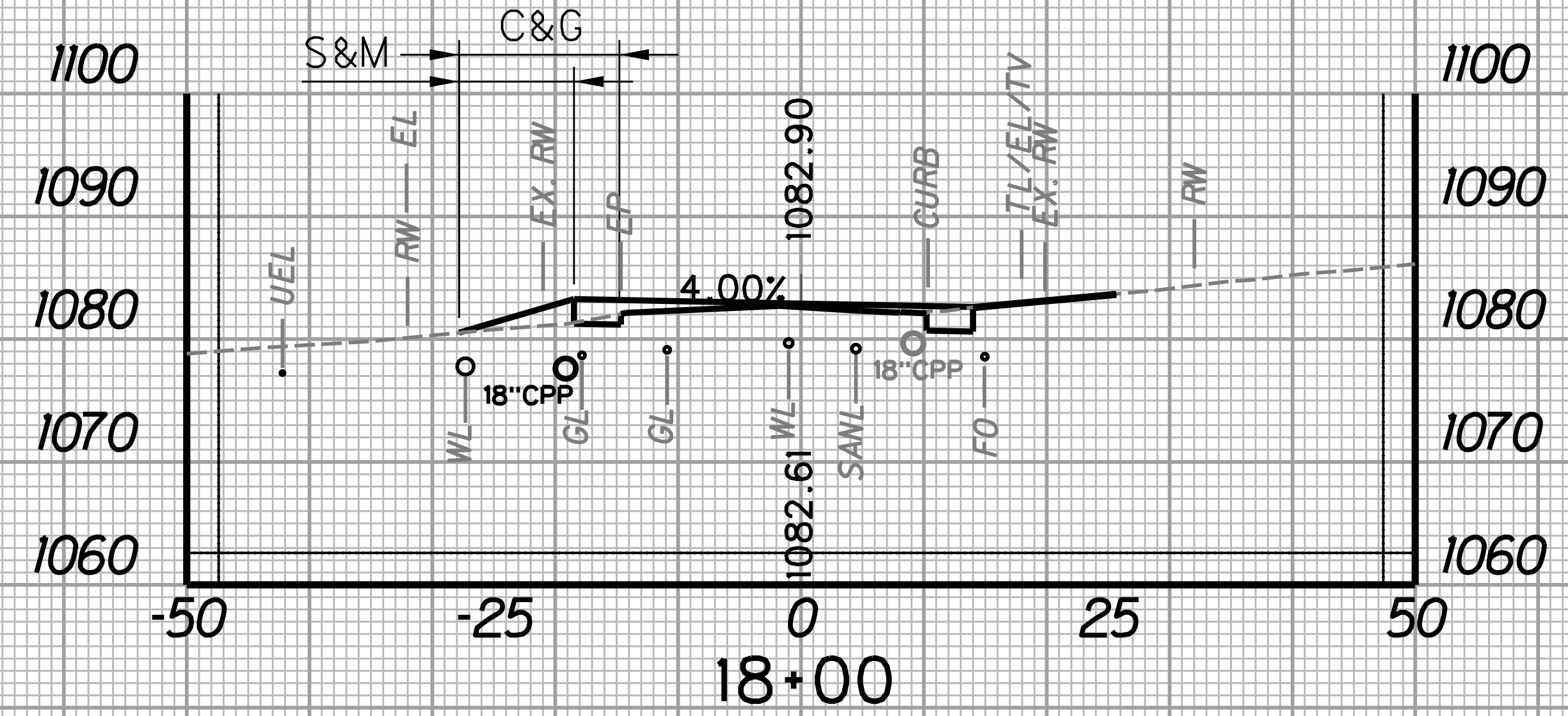
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		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
17+50	25	3.6	83.8	10.7	261.3	4.7	31.9	0.4	0.3	0.0	0.0
17+75	3.1			10.2		64.2		0.3		0.0	



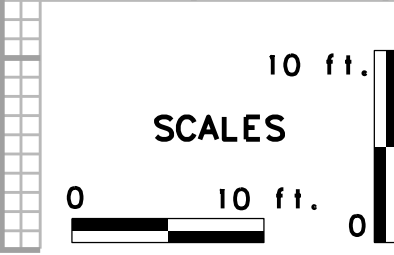
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		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
18+00	25	9.3	201.3	13.1	480.0	64.2	82.7	0.0	0.0	0.0	6.0
18+25	6.8			25.3		114.4		0.0		13.0	



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
17+25	25	1.5	63.8	4.1	185.0	35.9	18.8	0.4	0.4	0.0	0.0
17+50	3.6			10.7		4.7		0.4		0.0	

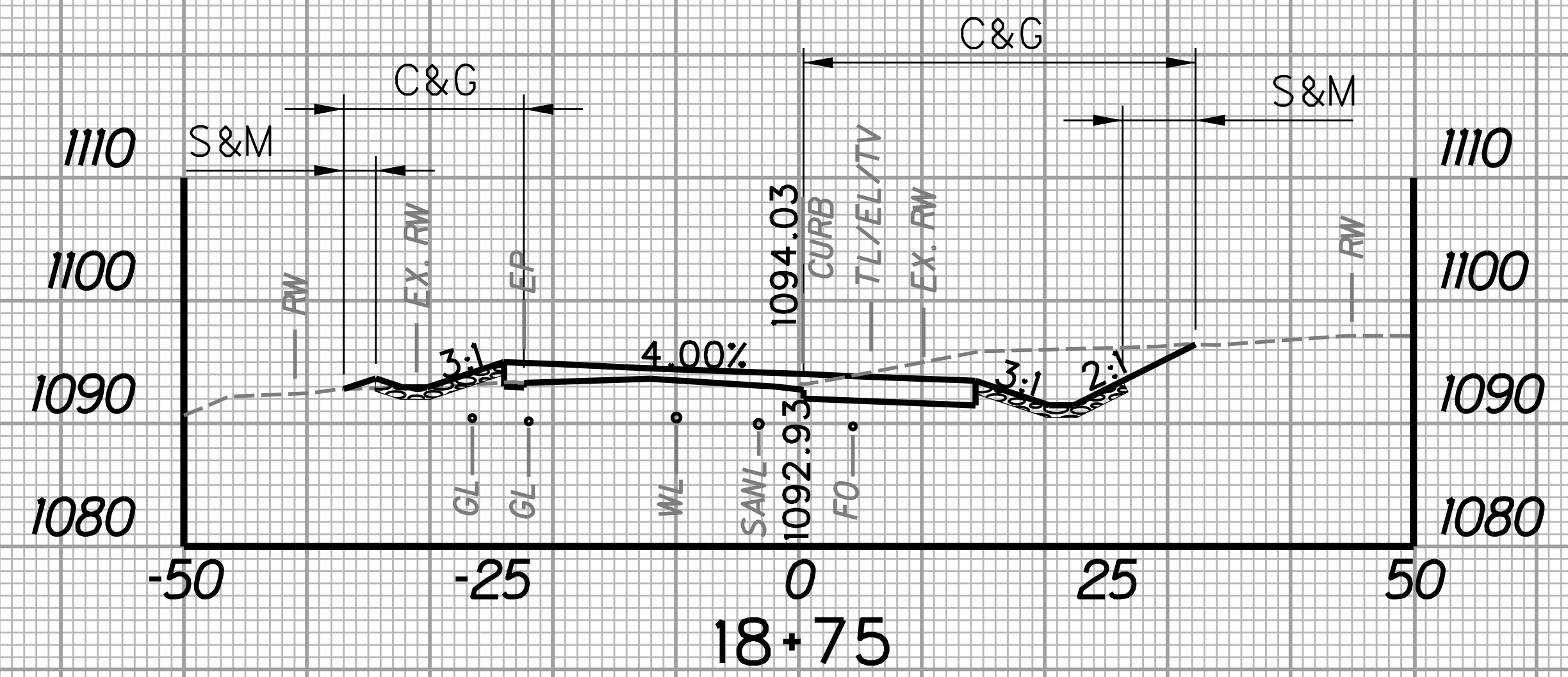


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
17+75	25	3.1	155.0	10.2	291.3	64.2	59.4	0.3	0.1	0.0	0.0
18+00	9.3			13.1		64.2		0.0		0.0	

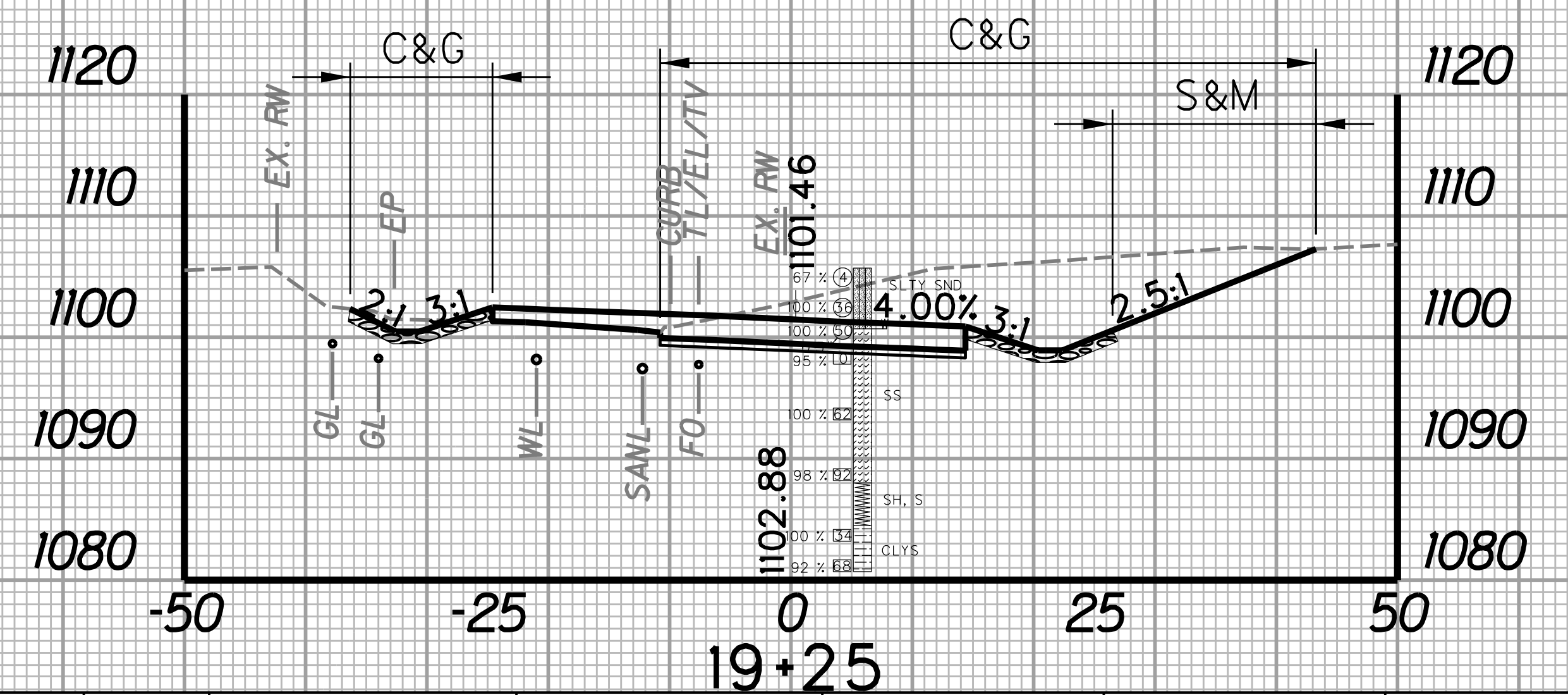


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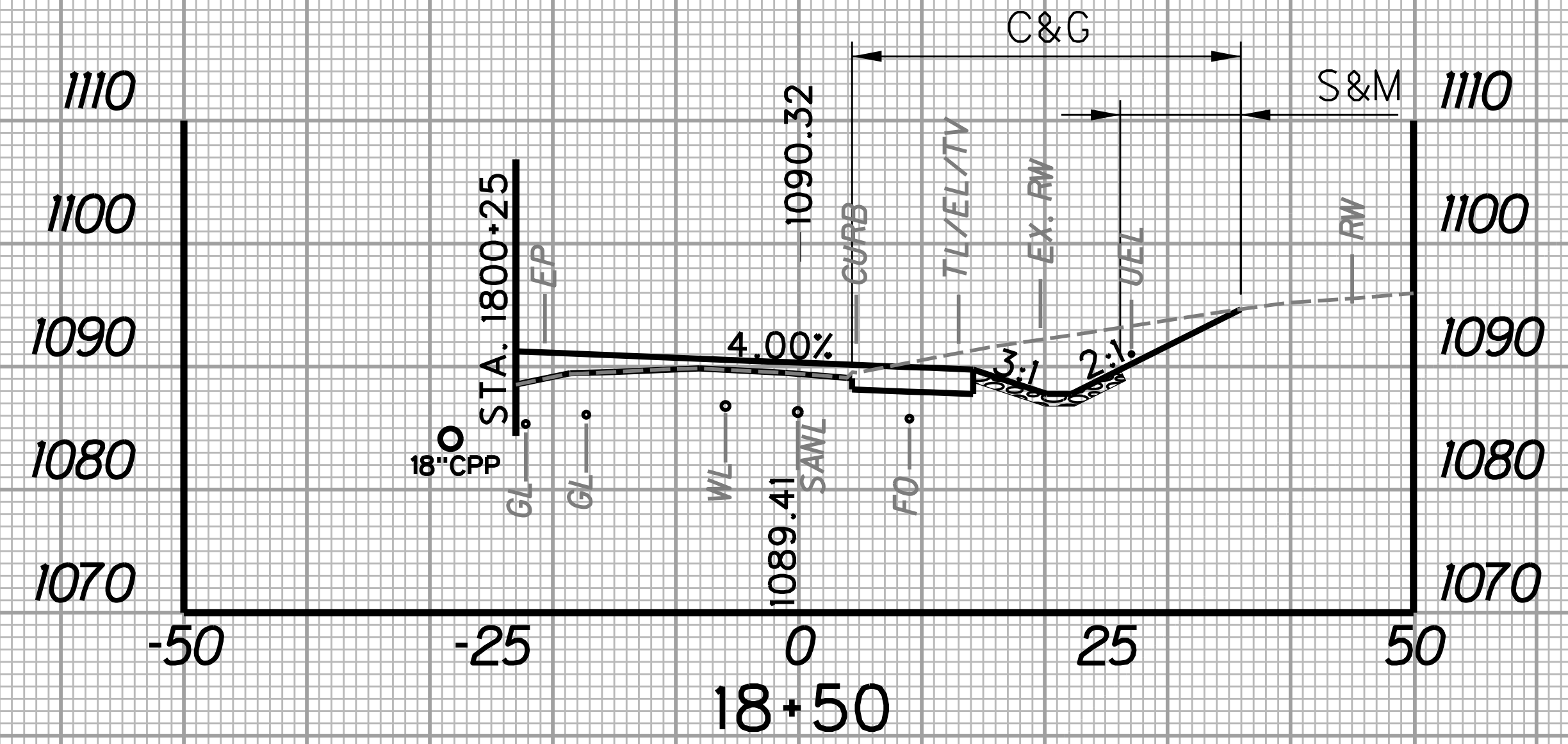
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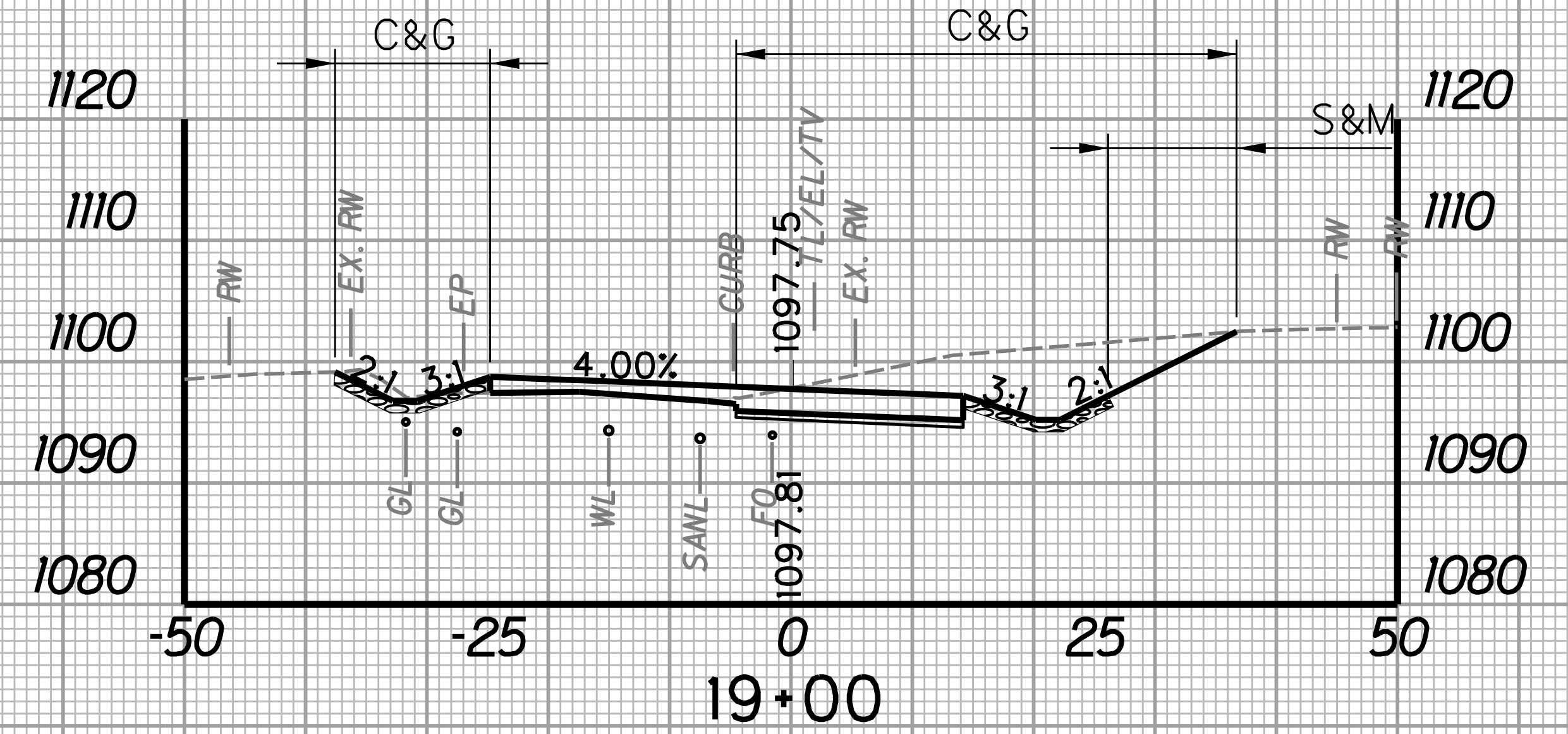
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
18+50	25	9.8	228.8	31.6	978.8	139.9	39.2	0.0	0.0	13.0	17.0
18+75	8.5	8.5		46.7		152.3		0.0		23.8	



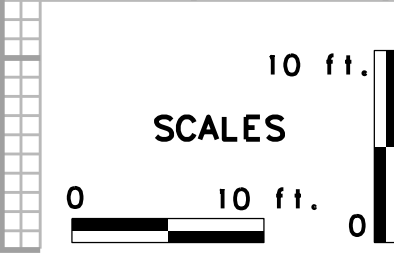
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
19+00	25	10.6	342.5	54.0	1497.5	185.0	214.5	0.0	0.0	26.7	24.2
19+25	16.8	16.8		65.8		278.3		0.0		25.6	



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
18+25	25	6.8	207.5	25.3	711.3	114.4	117.7	0.0	0.0	13.0	12
18+50	9.8	9.8		31.6		139.9		0.0		13.0	

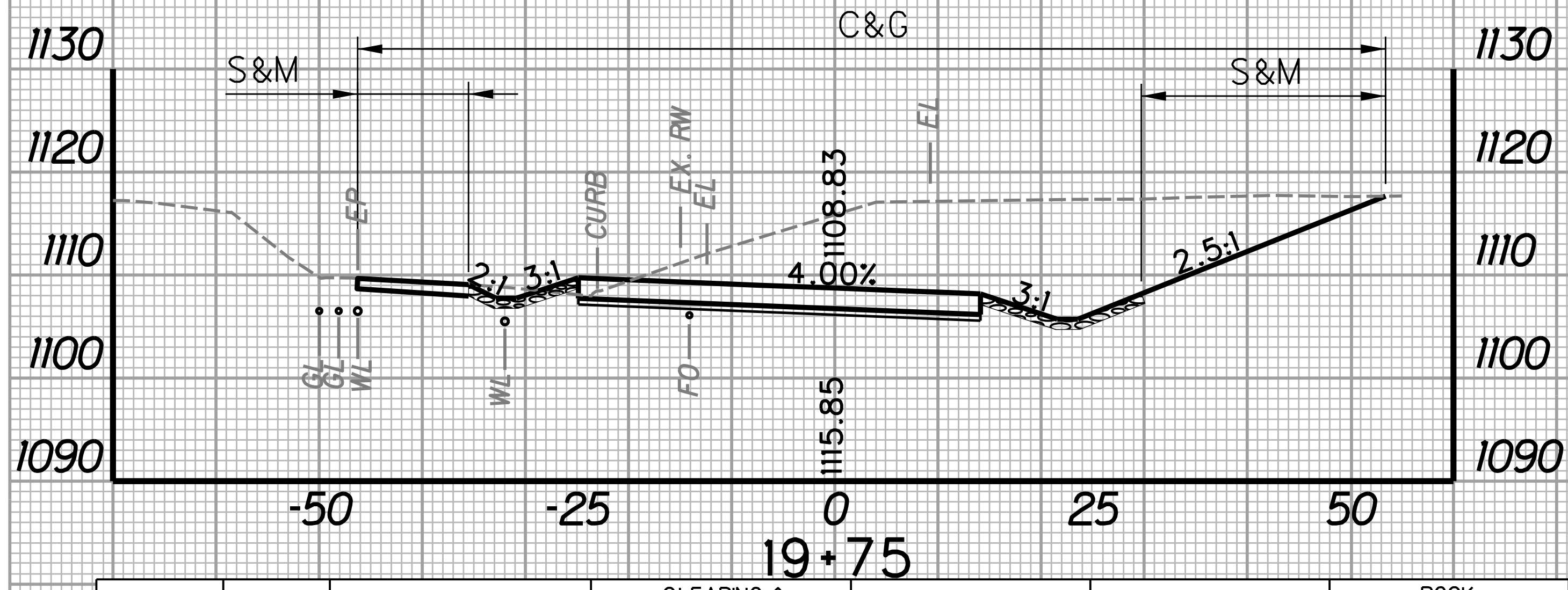


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
18+75	25	8.5	238.8	46.7	1258.8	152.3	156.2	0.0	0.0	23.8	23.4
19+00	10.6	10.6		54.0		185.0		0.0		26.7	

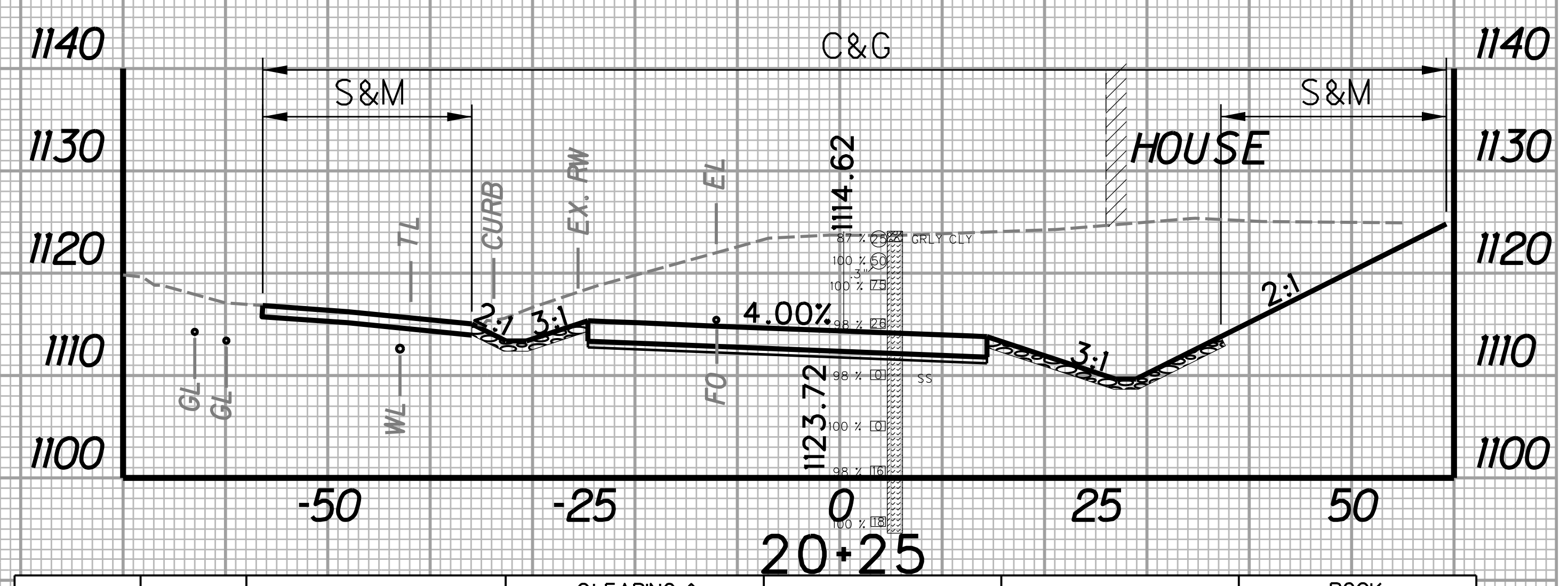


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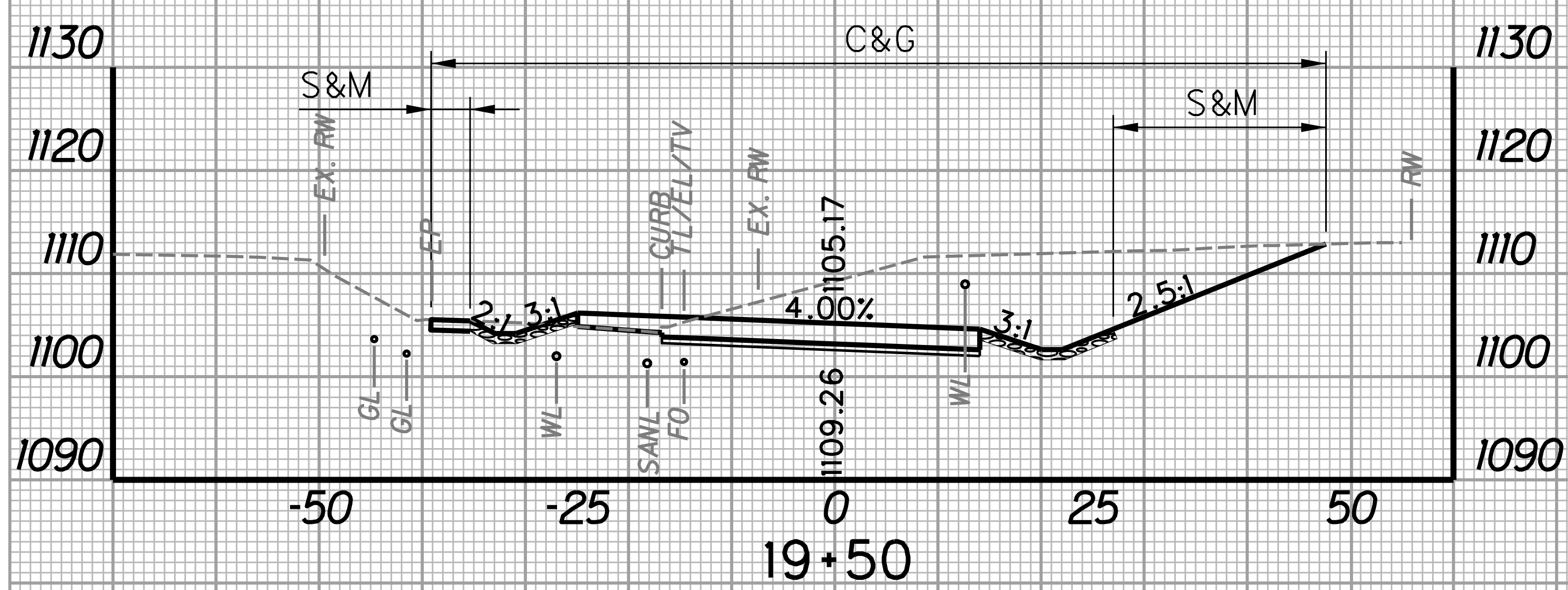
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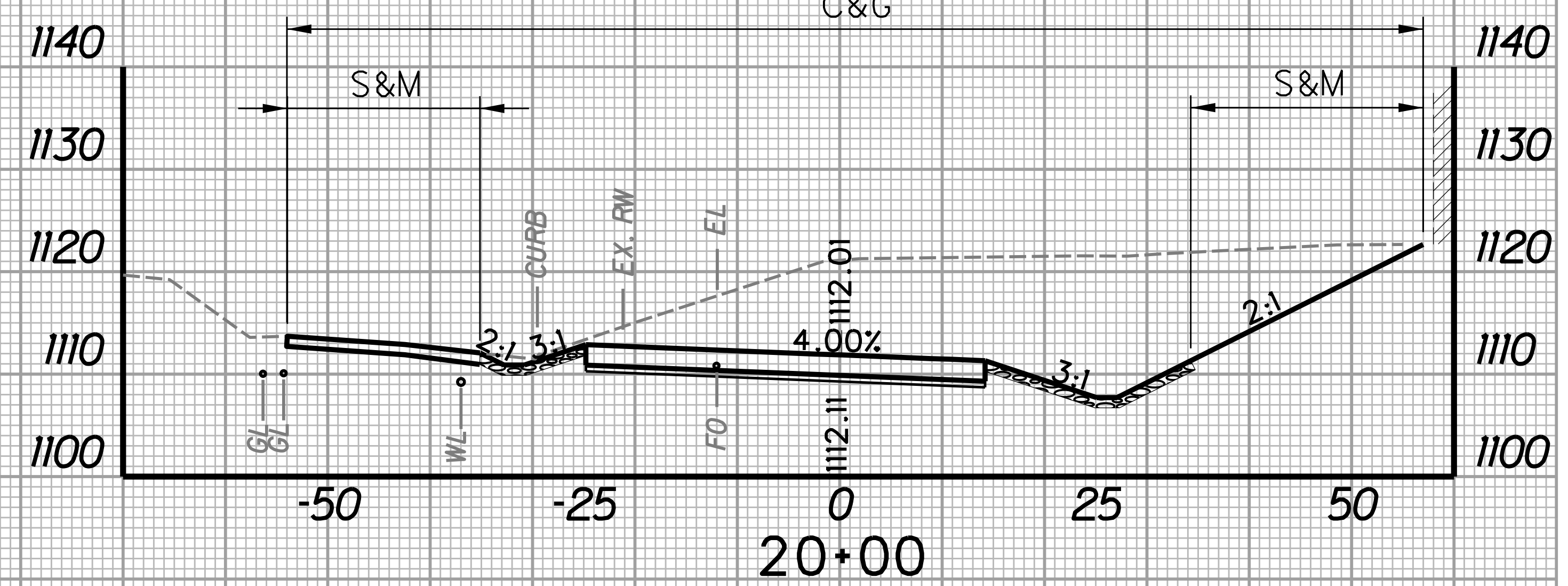
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
19+50		24.3		86.8		410.6		0.0		24.6	
	25		733.8		2331.3		458.3		0.0		24.3
19+75		34.4		99.7		579.4		0.0		27.8	



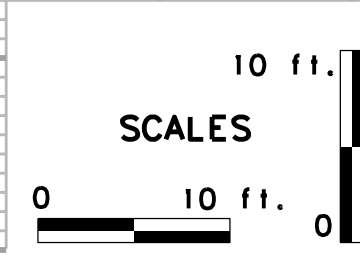
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
20+00		41.5		111.0		790.3		0.0		32.6	
	25		1048.8		2633.8		33.8		0.0		32.1
20+25		42.4		115.6		922.6		0.0		36.7	



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
19+25		16.8		65.8		278.3		0.0		25.6	
	25		513.8		1907.5		318.9		0.0		23.2
19+50		24.3		86.8		410.6		0.0		24.6	

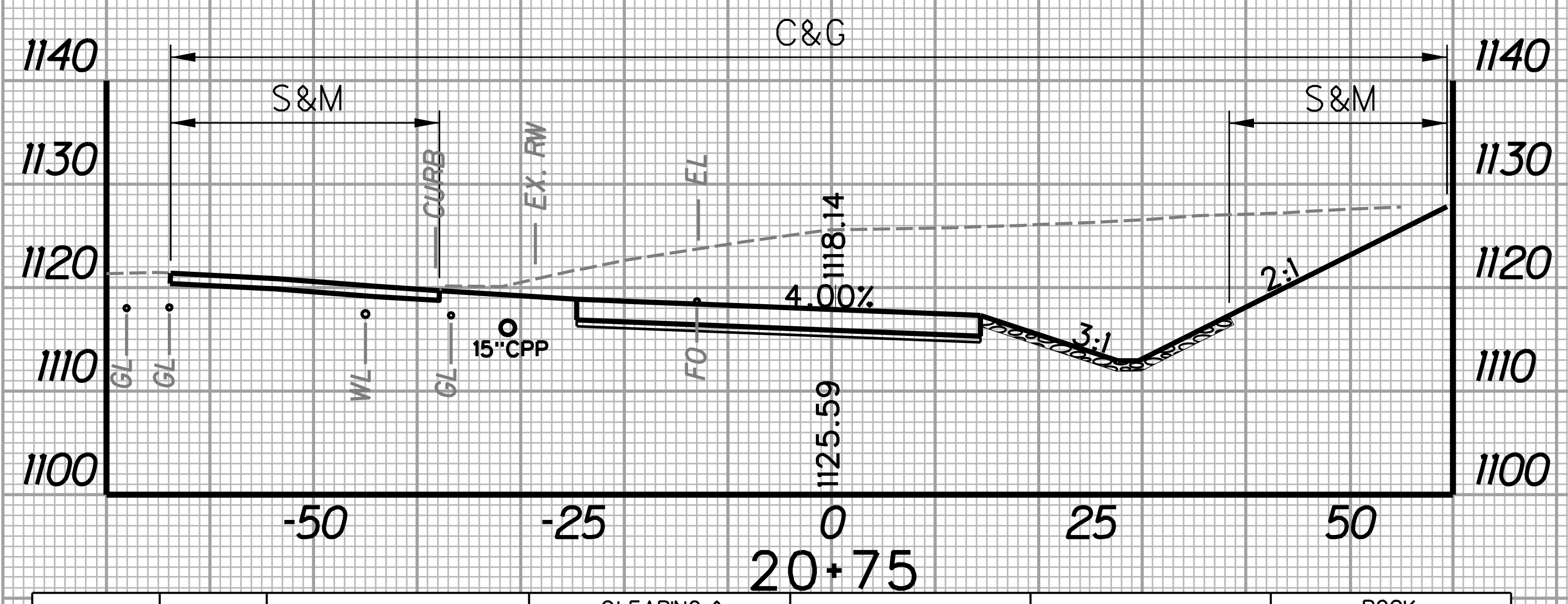


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
19+75		34.4		99.7		579.4		0.0		27.8	
	25		948.8		2633.8		634.1		0.0		28.0
20+00		41.5		111.0		790.3		0.0		32.6	

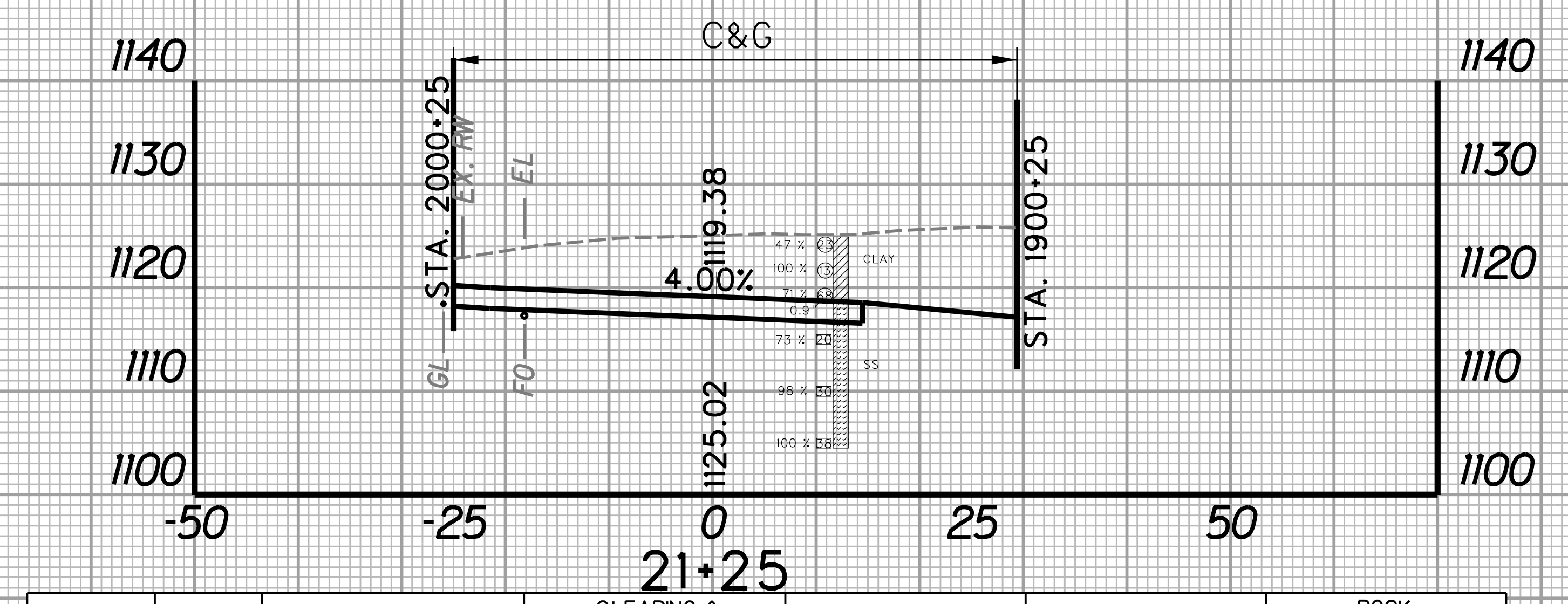


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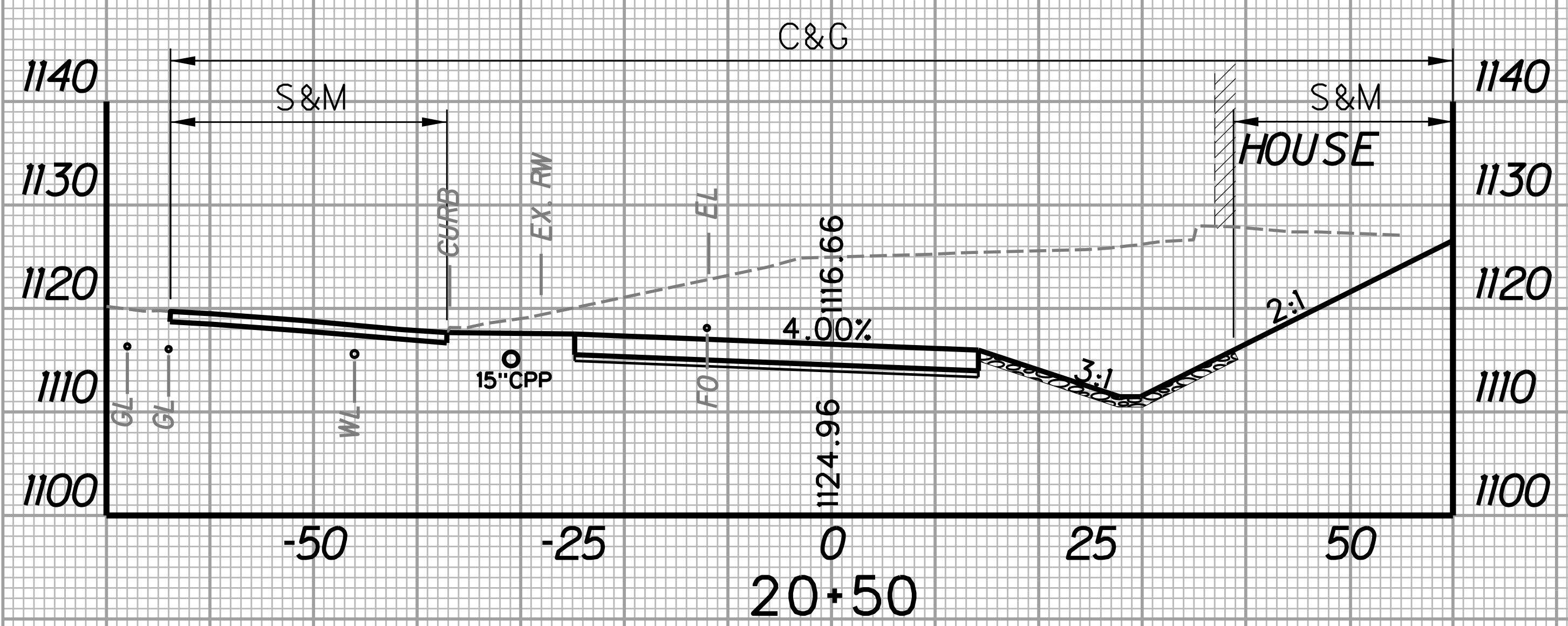
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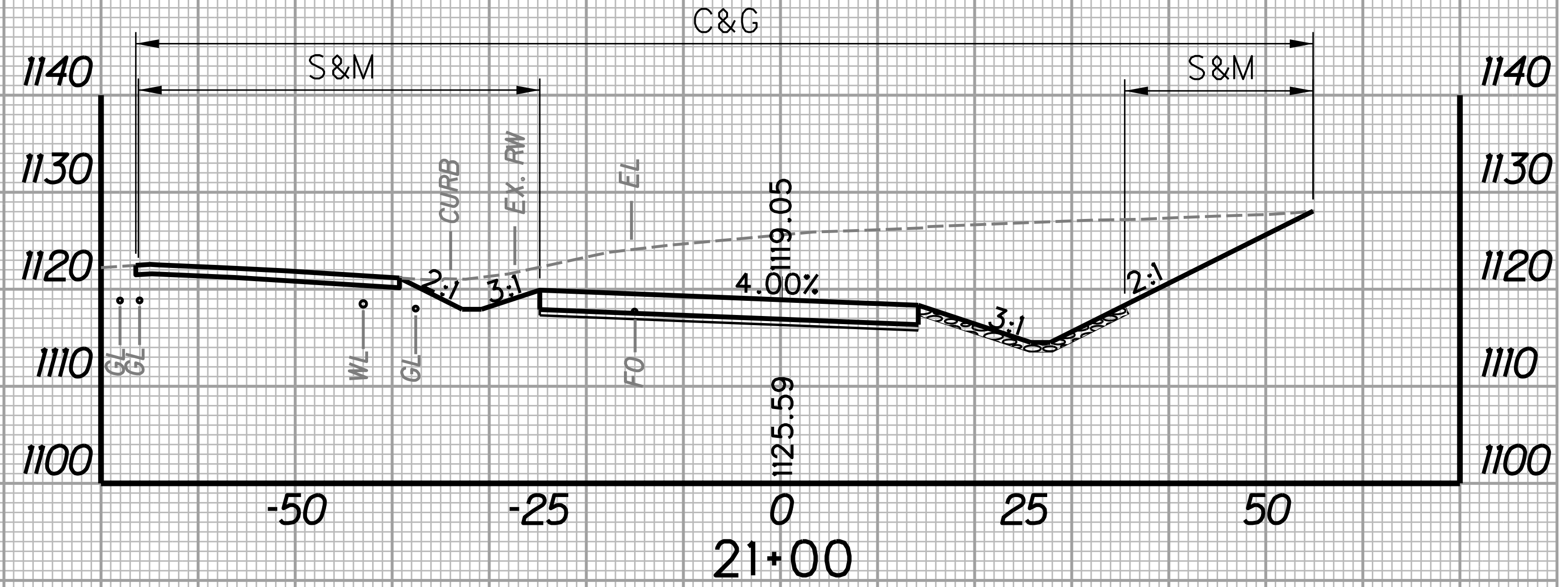
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
20+50	25	47.8	1183.8	123.8	3088.8	876.9	775.2	0.0	0.0	26.6	24.3
20+75	25	46.9	1125.59	123.3	797.6	0.0	0.0	0.0	0.0	25.9	0.0



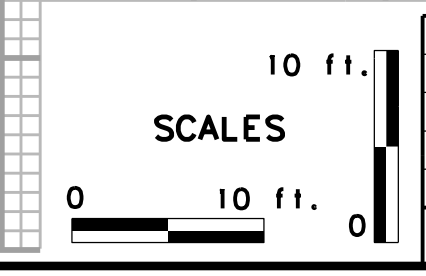
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
21+00	25	60.8	760.0	121.3	2196.3	718.4	369.0	0.0	0.0	23.0	10.6
21+75	0.0	0.0	0.0	54.4	78.7	0.0	0.0	0.0	0.0	0.0	0.0



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
20+25	25	42.4	1127.5	115.6	2992.5	922.6	833.1	0.0	0.0	36.7	29.3
20+50	25	47.8	1124.96	123.8	876.9	0.0	0.0	0.0	0.0	26.6	0.0

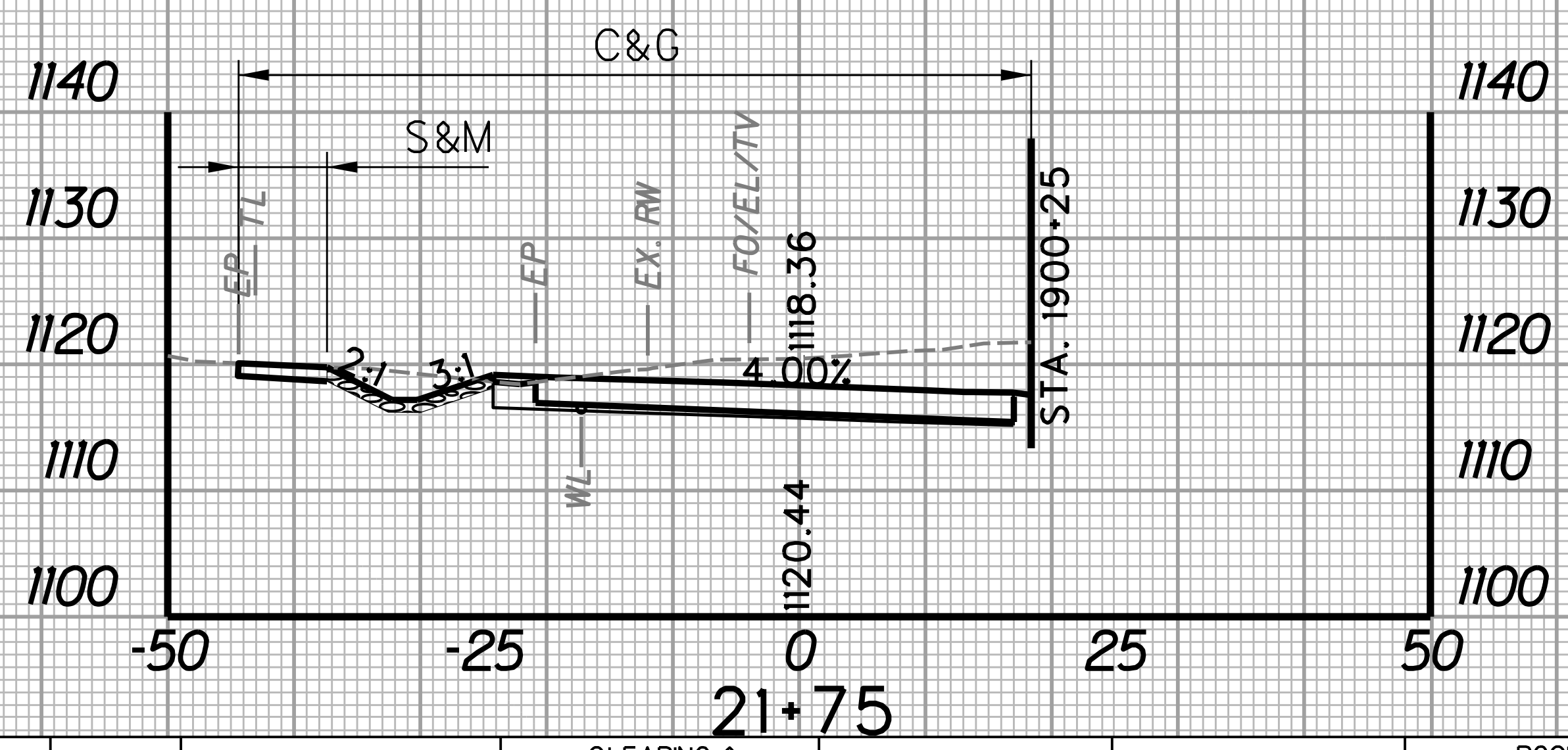


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
20+75	25	46.9	1346.3	123.3	3057.5	797.6	701.9	0.0	0.0	25.9	22.6
21+00	25	60.8	1119.05	121.3	718.4	0.0	0.0	0.0	0.0	23.0	0.0

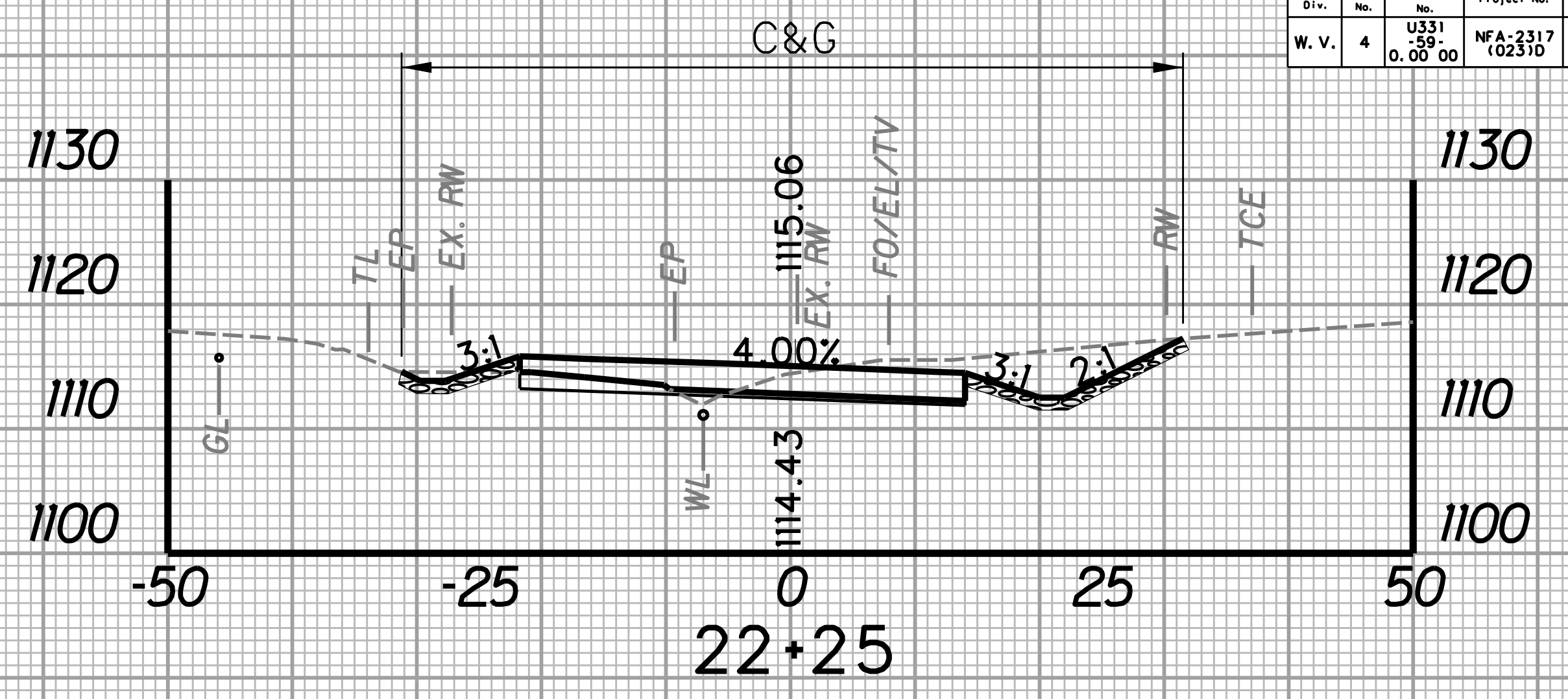


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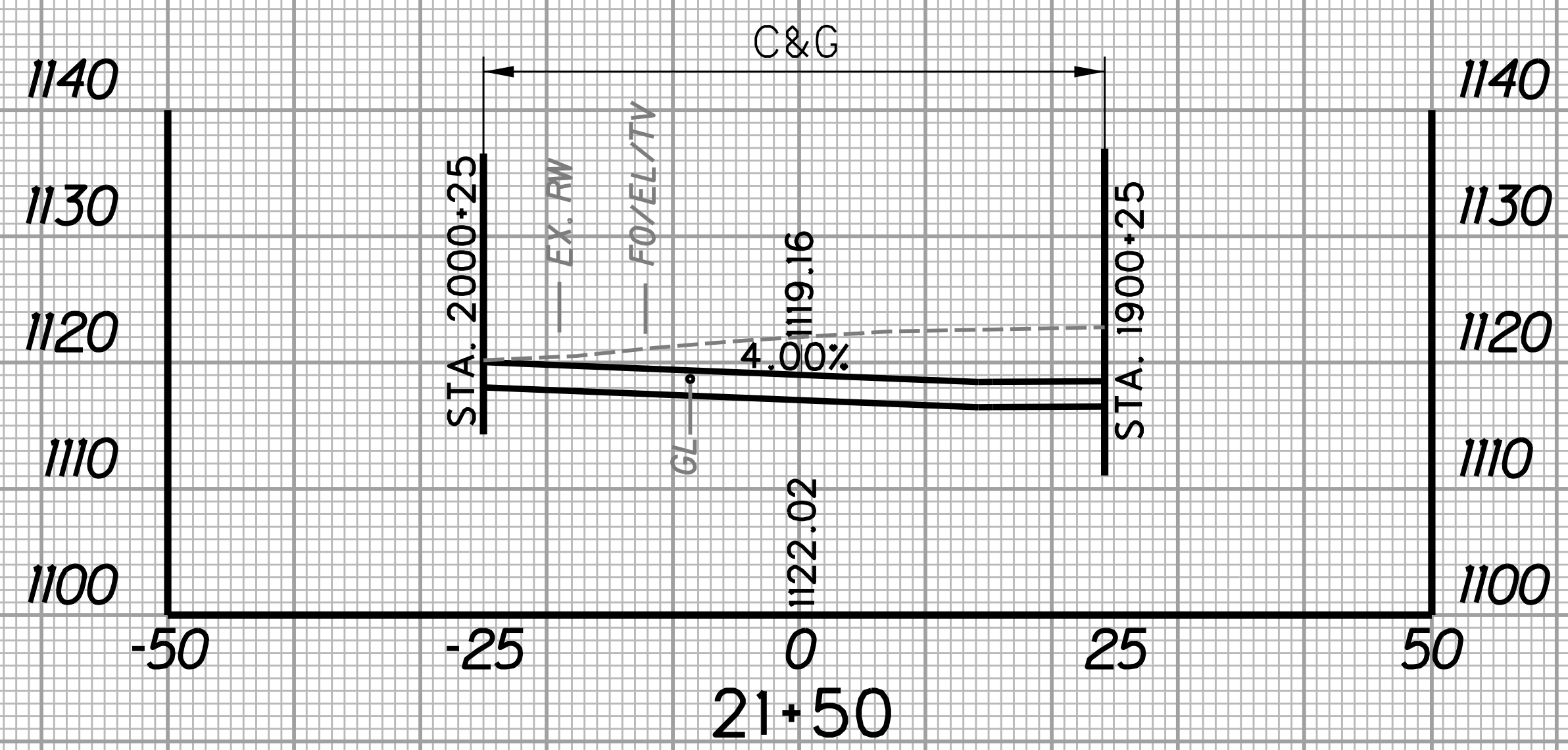
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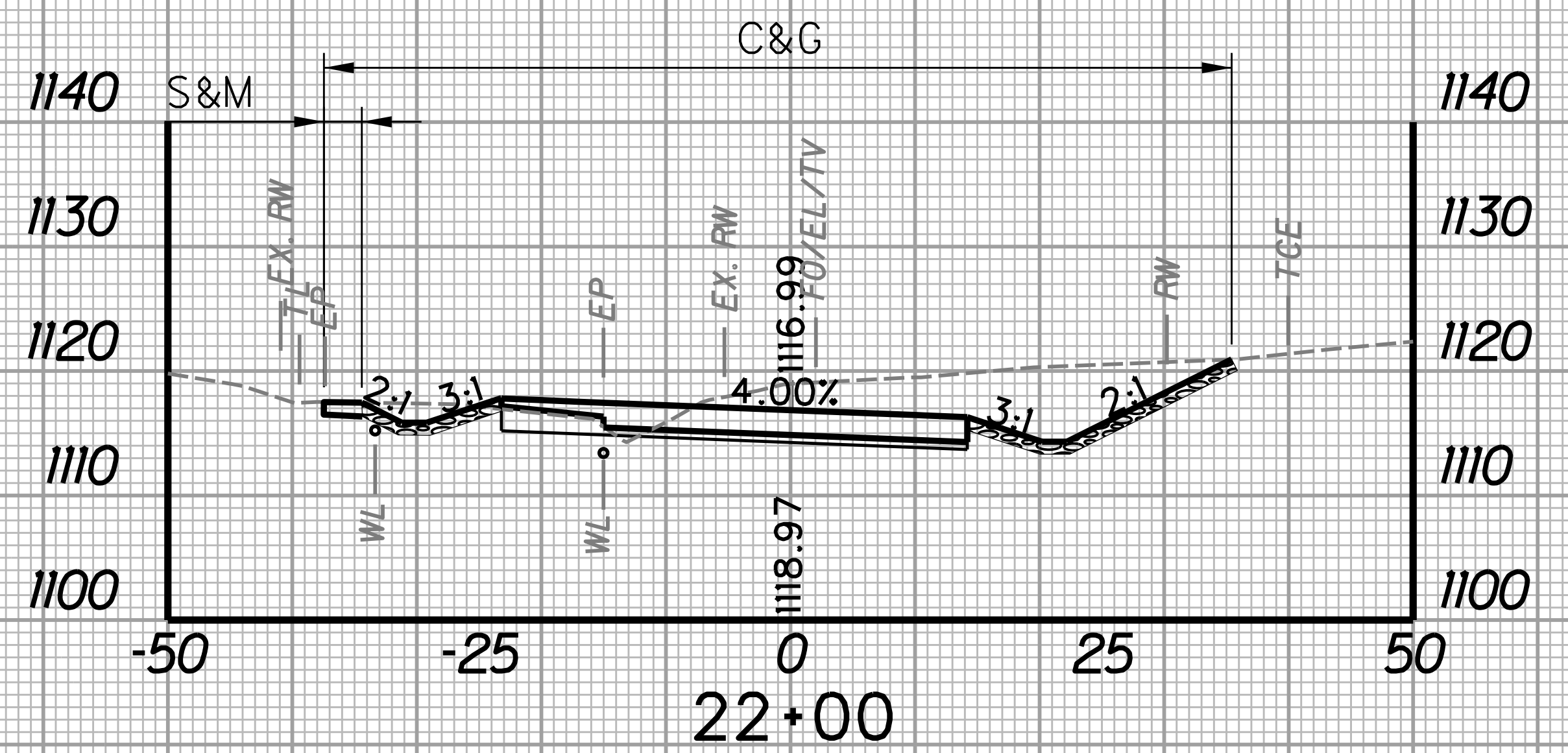
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
21+50		0.0		49.2		98.1		0.0		0.0	
	25		87.5		1400.0		147.7		0.0		6.5
21+75		7.0		62.8		221.0		0.0		14.1	



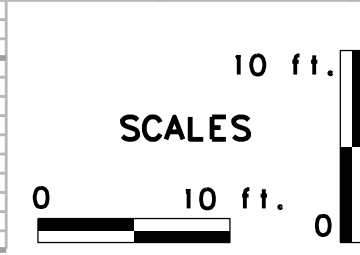
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
22+00		3.0		72.9		230.3		0.4		35.2	
	25		37.5		169.3		167.7		0.4		29.9
22+25		0.0		62.8		132.0		0.5		29.4	



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
21+25		0.0		54.4		78.7		0.0		0.0	
	25		0.0		1295.0		81.9		0.0		0.0
21+50		0.0		49.2		98.1		0.0		0.0	

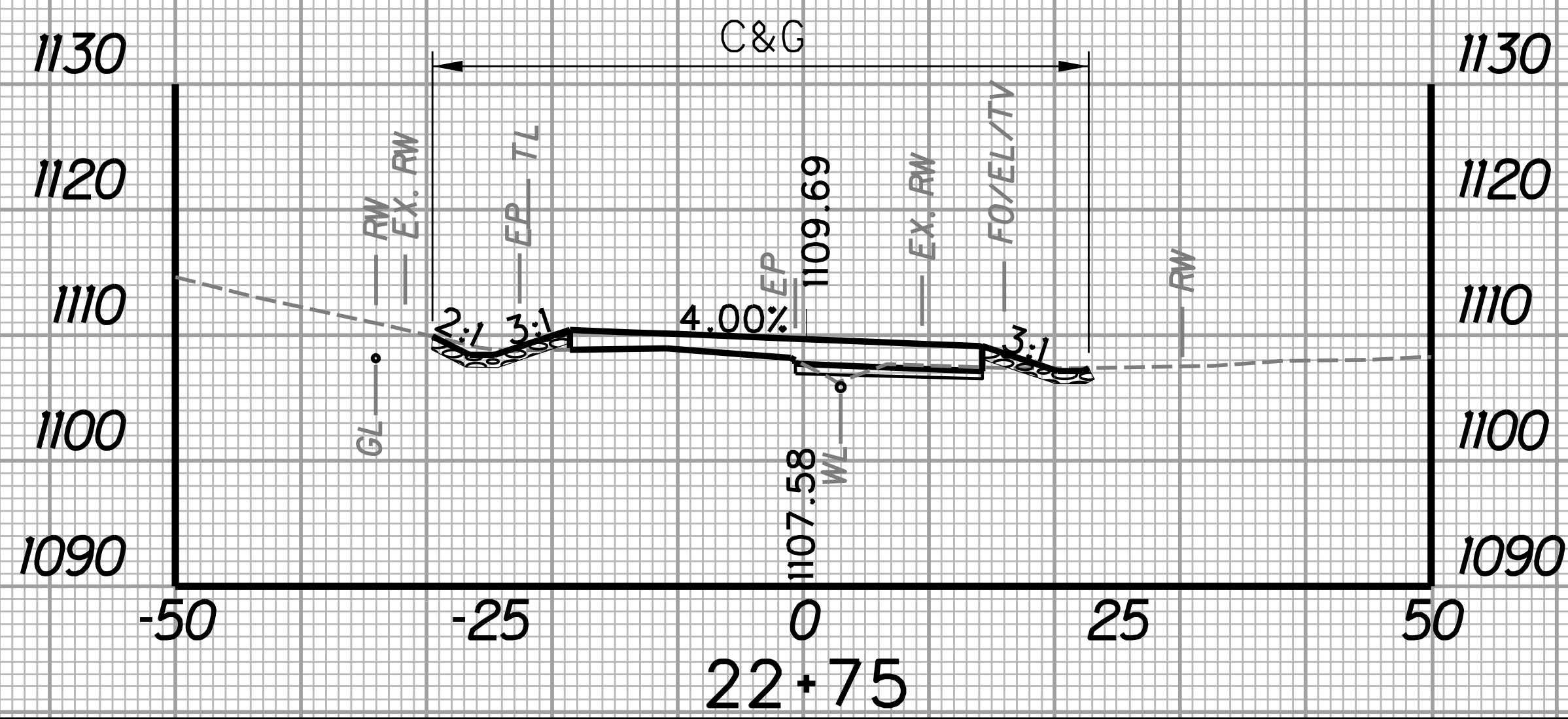


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
21+75		7.0		62.8		221.0		0.0		14.1	
	25		125.0		1696.3		208.9		0.2		22.8
22+00		3.0		72.9		230.3		0.4		35.2	

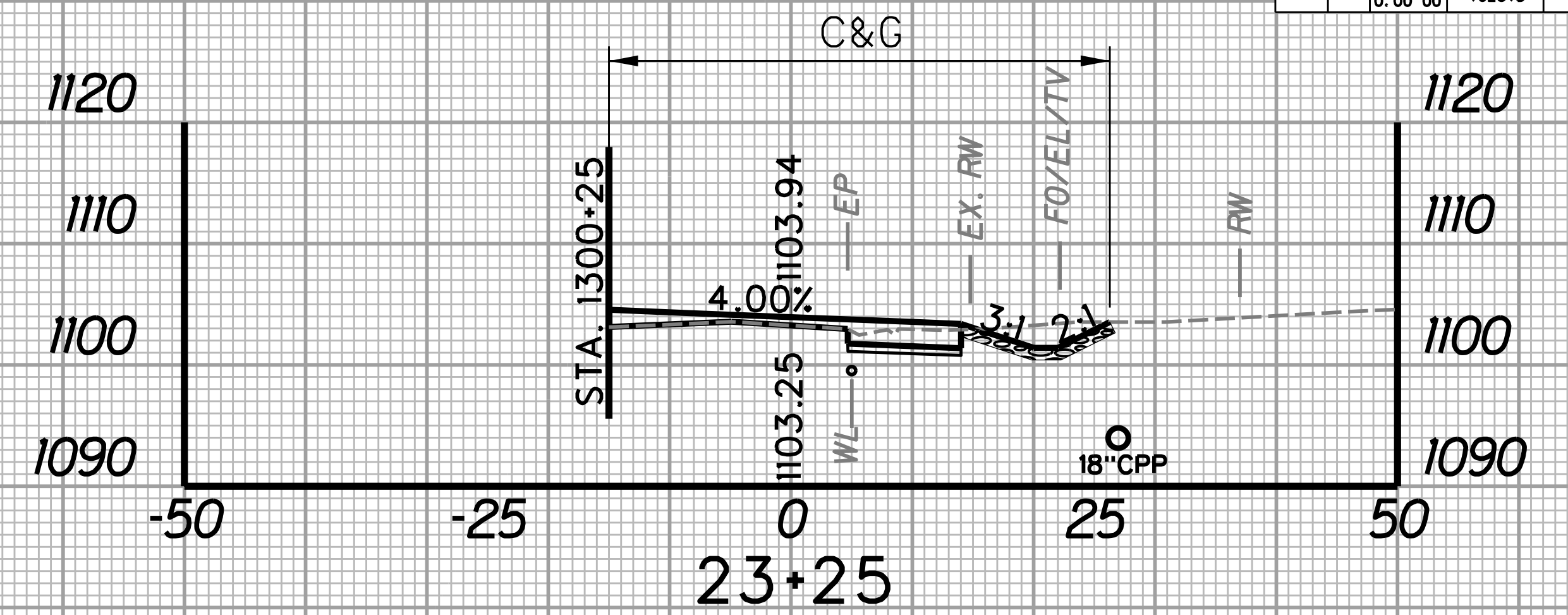


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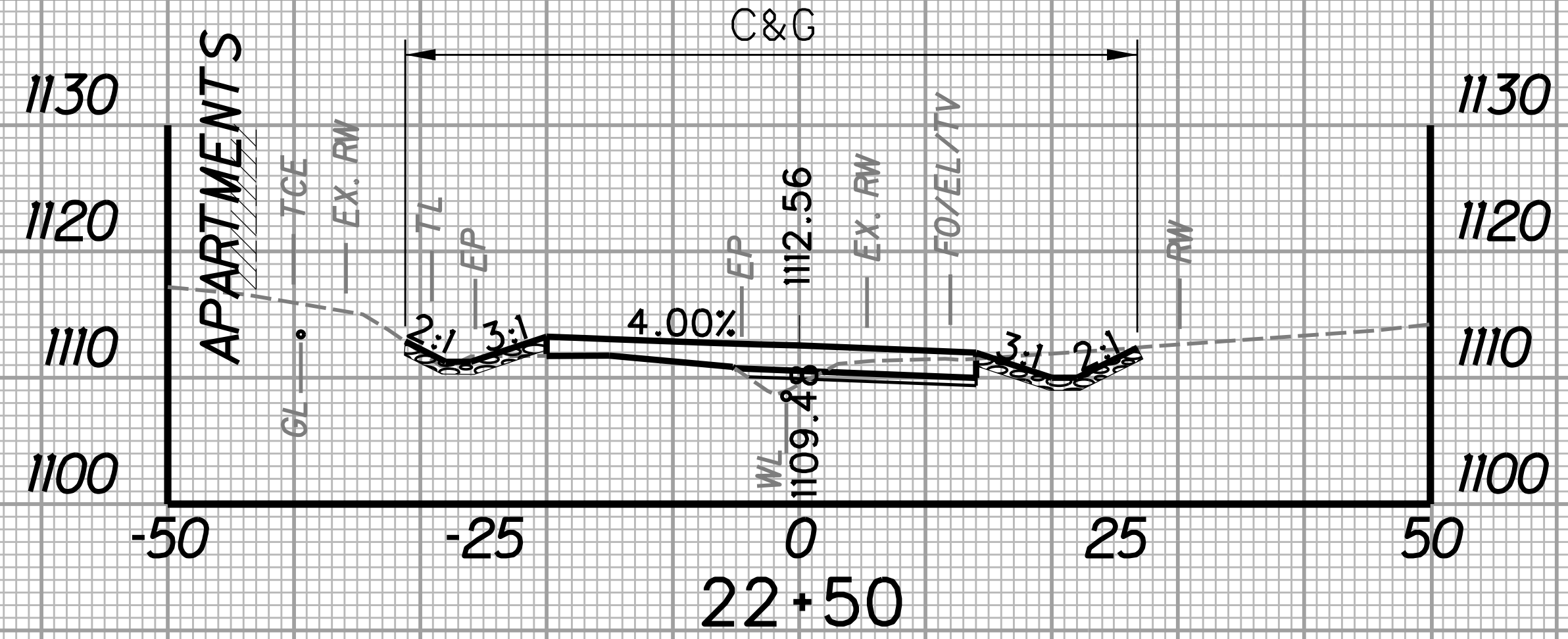
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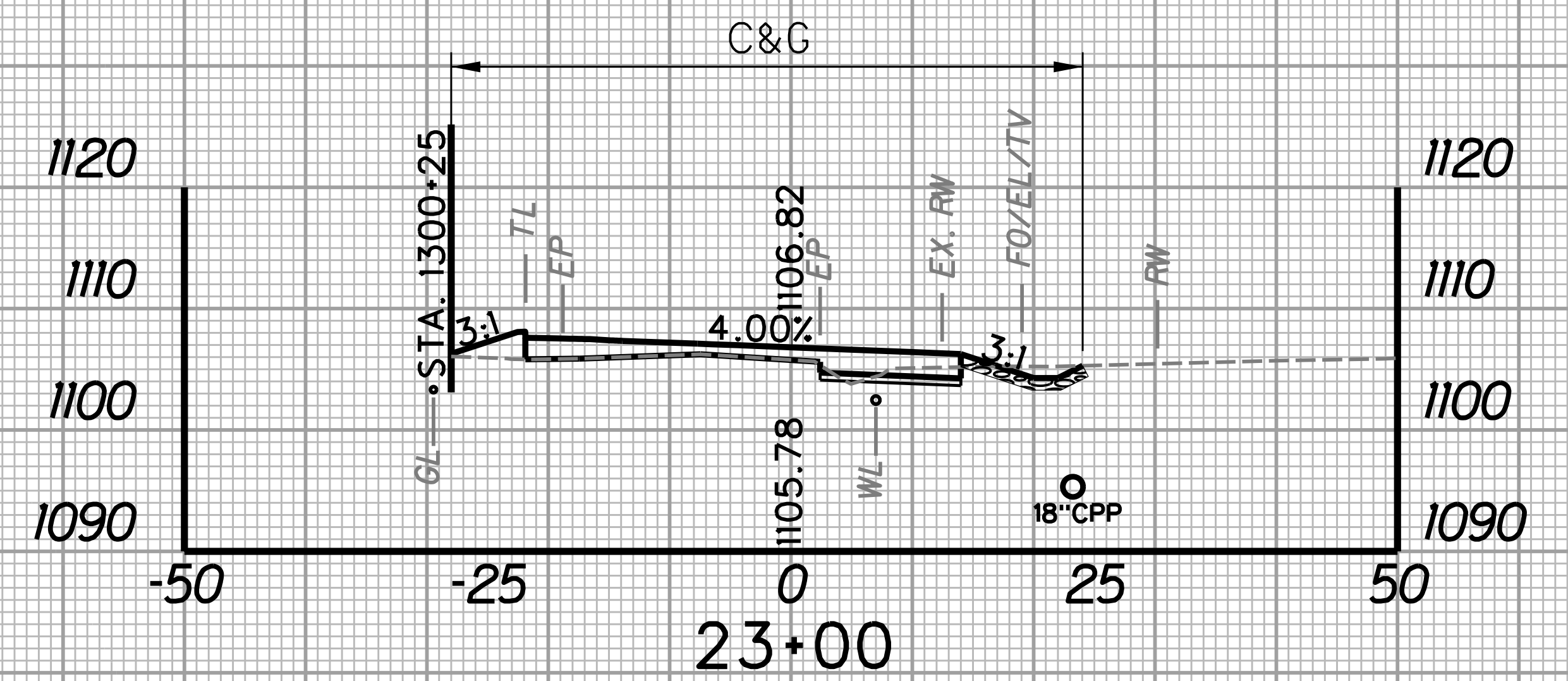
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		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
22+50	25	0.0	0.0	58.0	1378.8	56.4	38.0	3.2	1.7	26.0	21.6
22+75	0.0	0.0	0.0	52.3	0.0	25.7	0.0	0.4	0.0	20.7	0.0



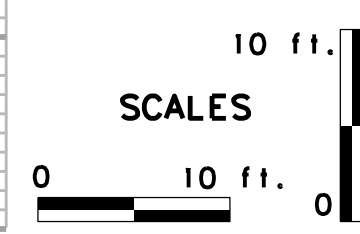
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		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
23+00	25	0.0	0.0	52.1	541.3	24.5	31.4	0.0	0.0	10.8	11.2
23+25	0.0	0.0	0.0	41.3	0.0	43.3	0.0	0.0	0.0	13.3	0.0



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
22+25	25	0.0	16.5	62.8	1510.0	132.0	87.2	0.5	1.7	29.4	25.6
22+50	0.0	0.0	0.0	58.0	0.0	56.4	0.0	3.2	0.0	26.0	0.0

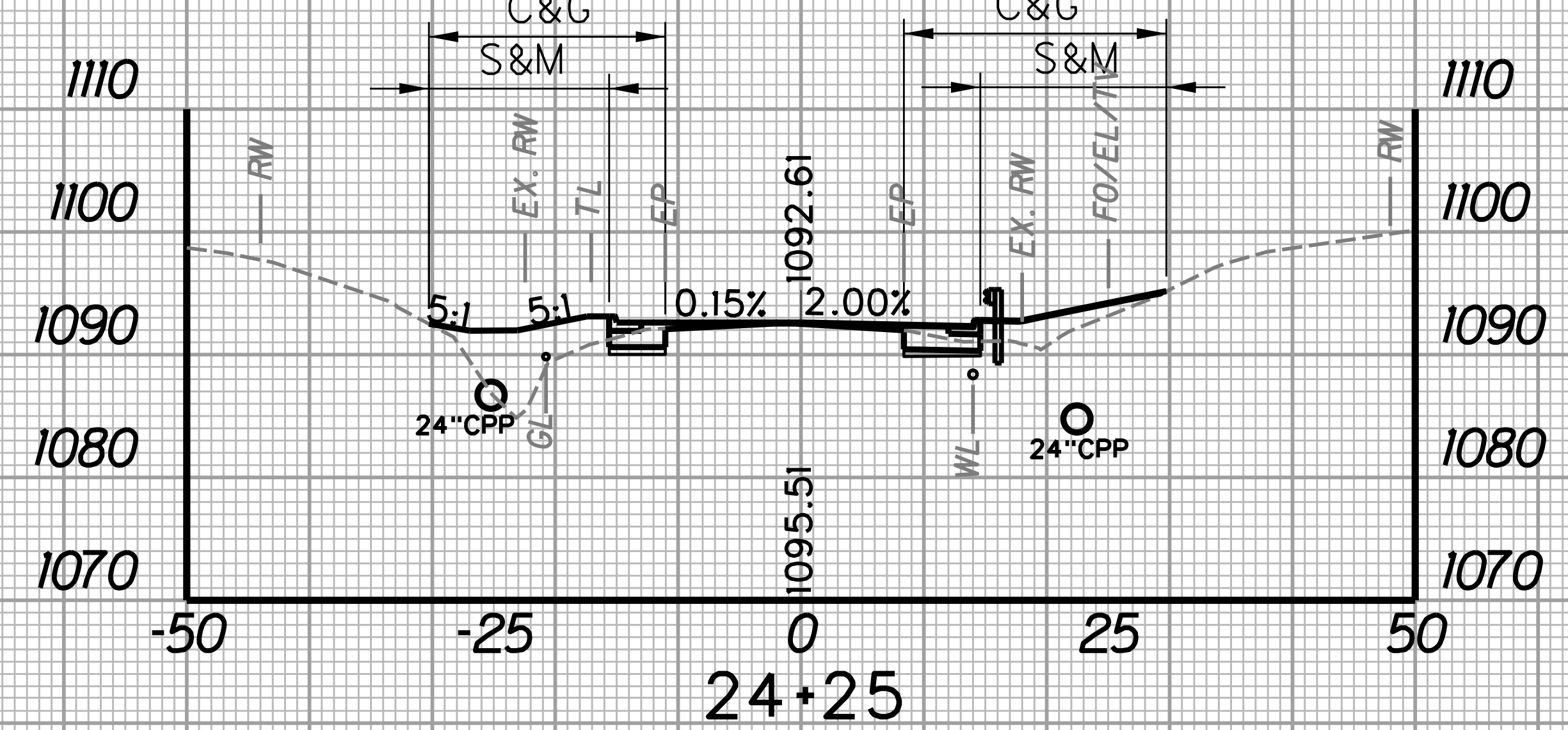
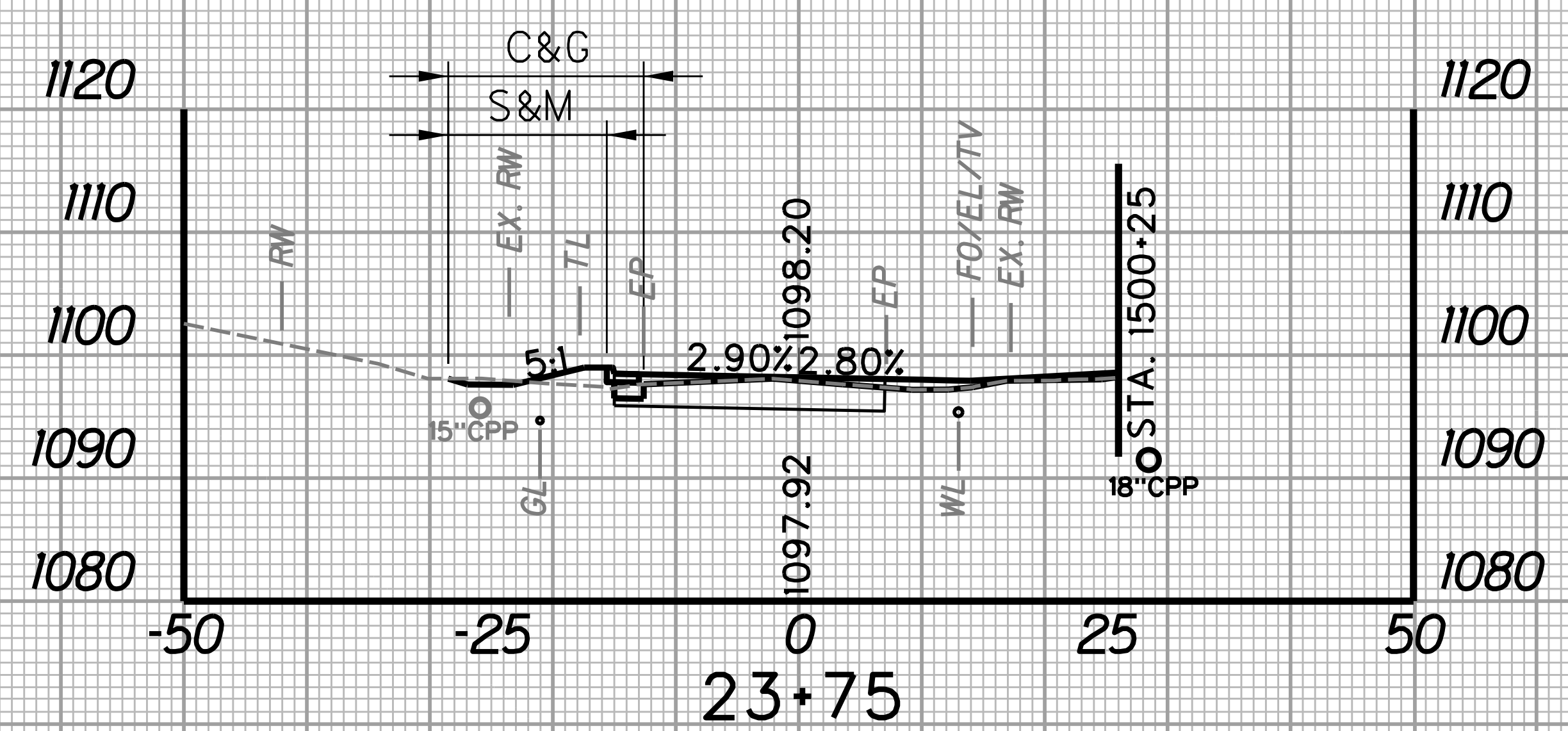


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
22+75	25	0.0	0.0	52.3	1305.0	25.7	23.2	0.4	0.2	20.7	14.6
23+00	0.0	0.0	0.0	52.1	0.0	24.5	0.0	0.0	0.0	10.8	0.0



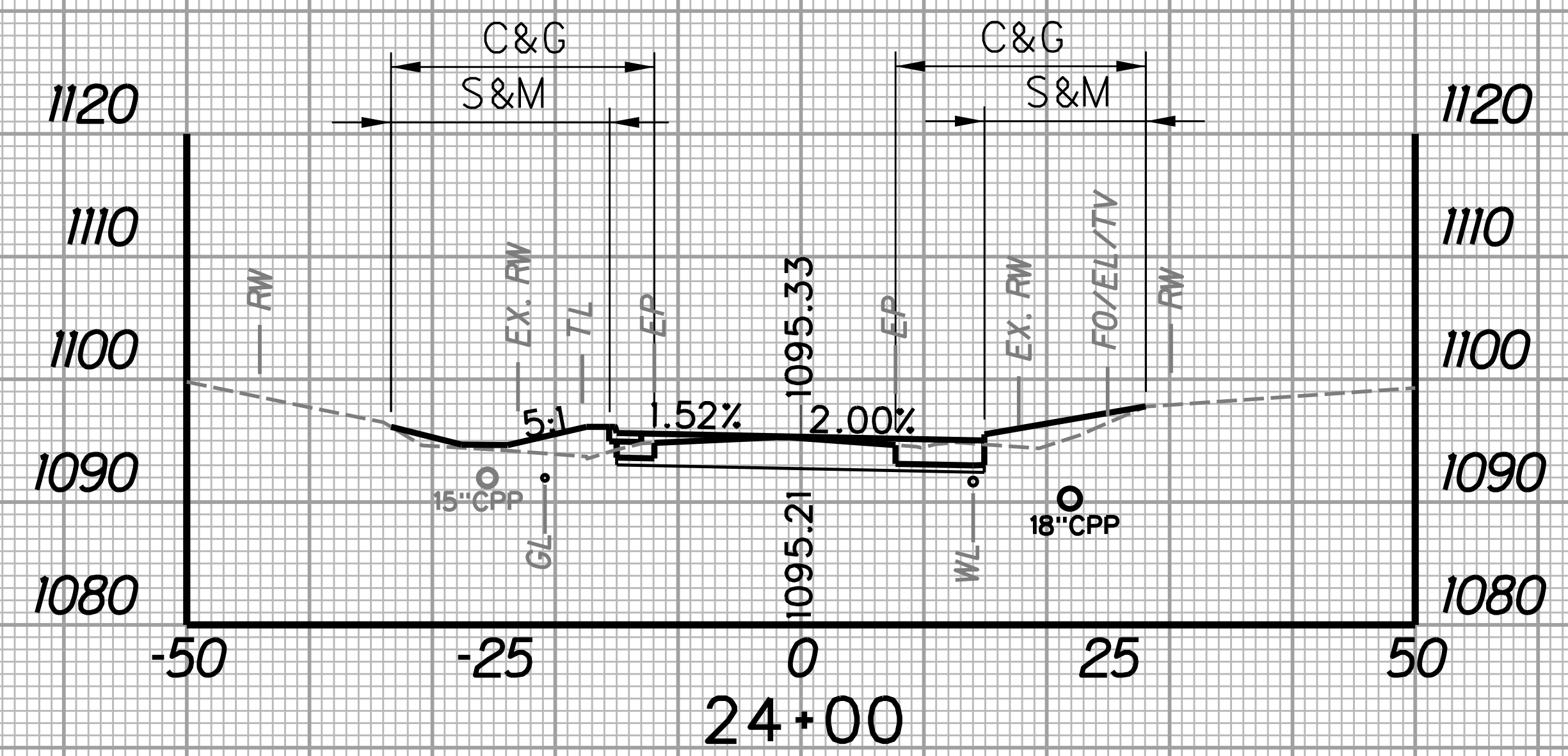
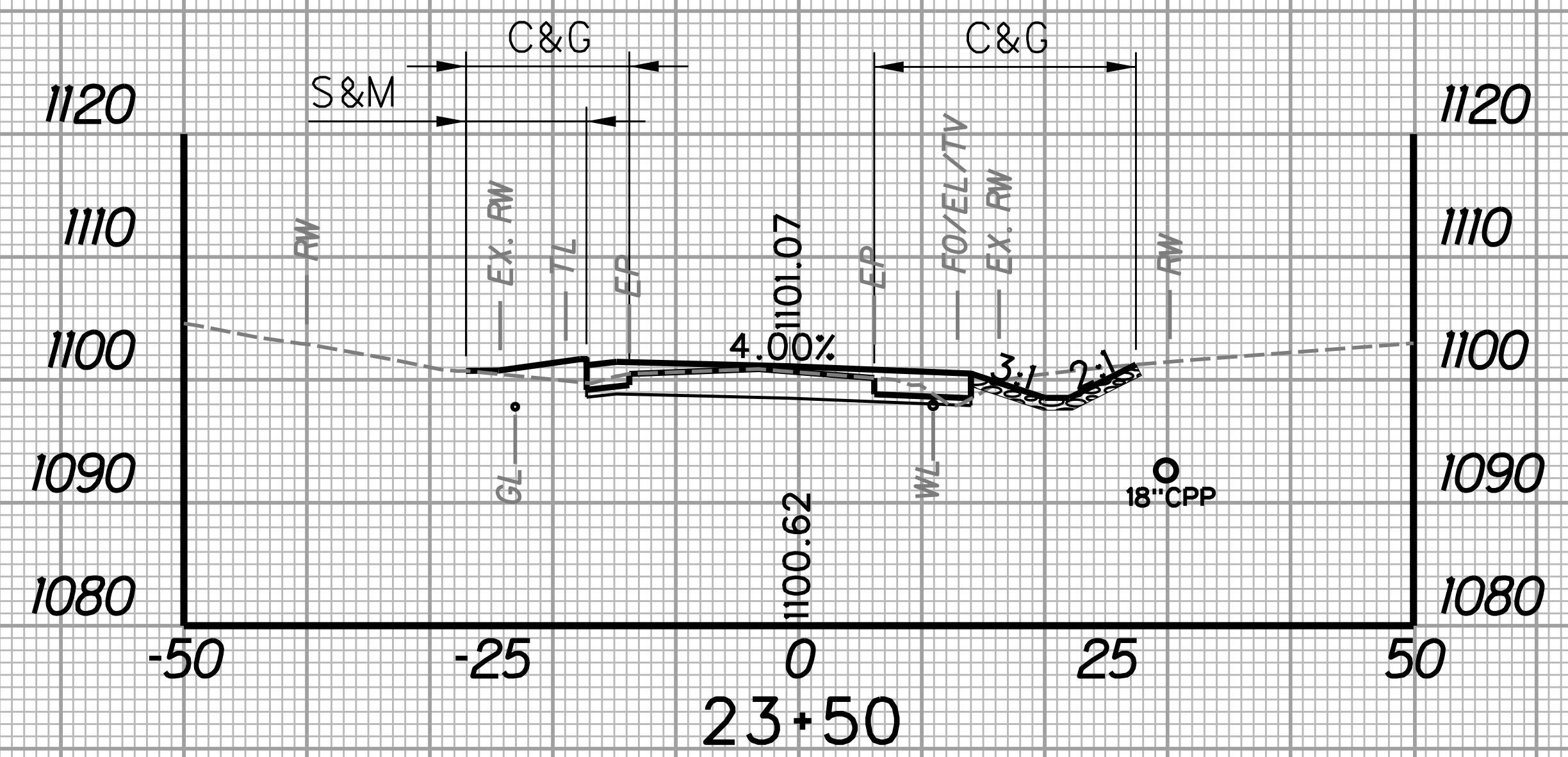
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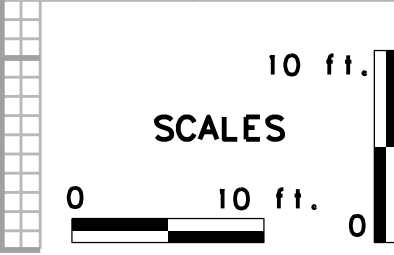
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
23+50	9.8			34.5		80.7		0.0		14.6	
23+75	25	12.9	283.8	15.9	630.0	48.2	59.7	0.0	0.0	0.0	6.8

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
24+00	31.0			41.9		64.8		33.3		0.0	
24+25	25	29.9	761.3	40.7	1032.5	17.7	47.5	69.2	0.0	0.0	



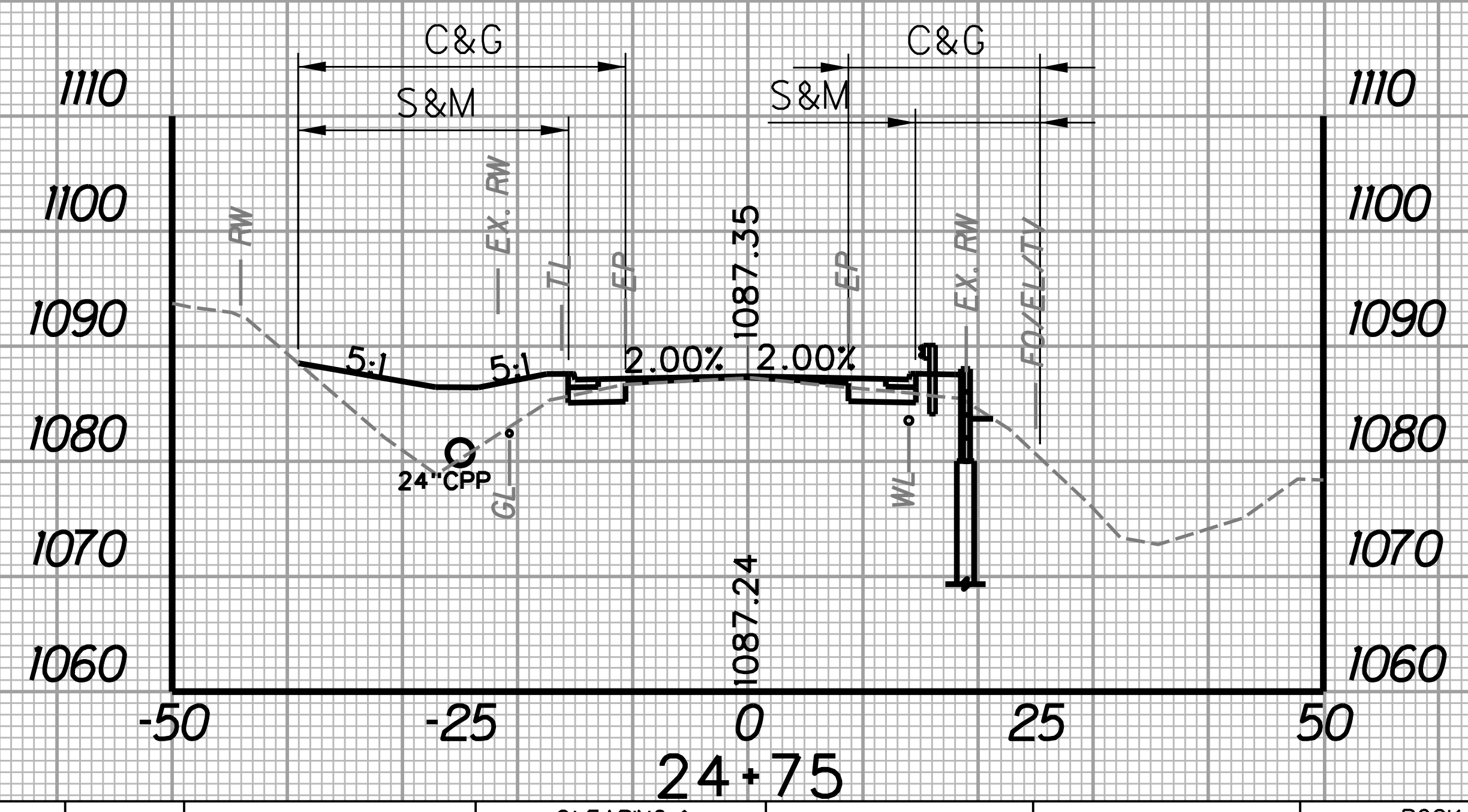
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		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
23+25	0.0			21.6		43.3		0.0		13.3	
23+50	25	9.8	122.5	34.5	701.3	80.7	42.8	0.0	0.0	14.6	12.9

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
23+75	12.9			15.9		48.2		0.0		0.0	
24+00	31.0	31.0	548.8	41.9	722.5	64.8	36.1	33.3	0.0	0.0	

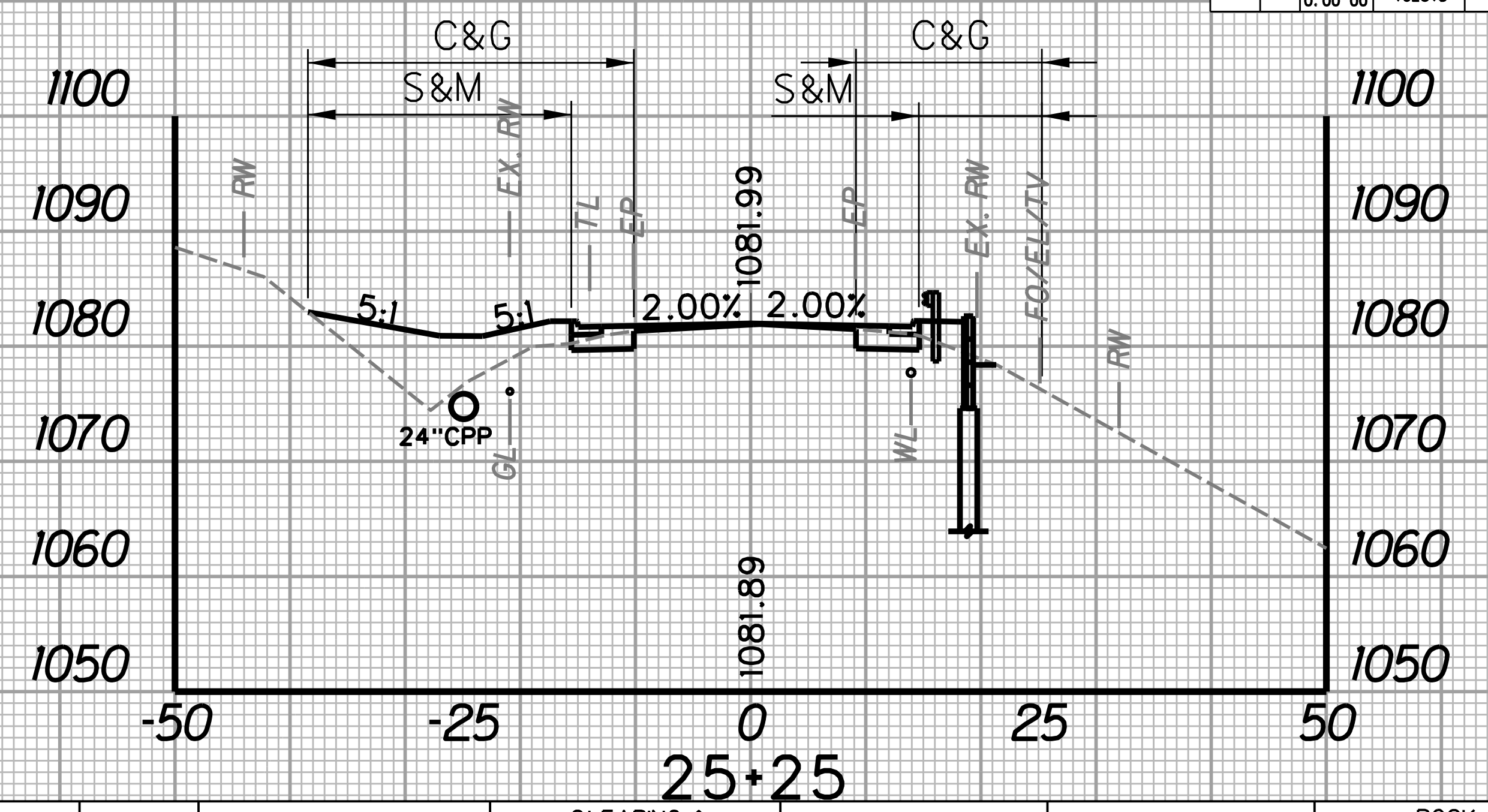


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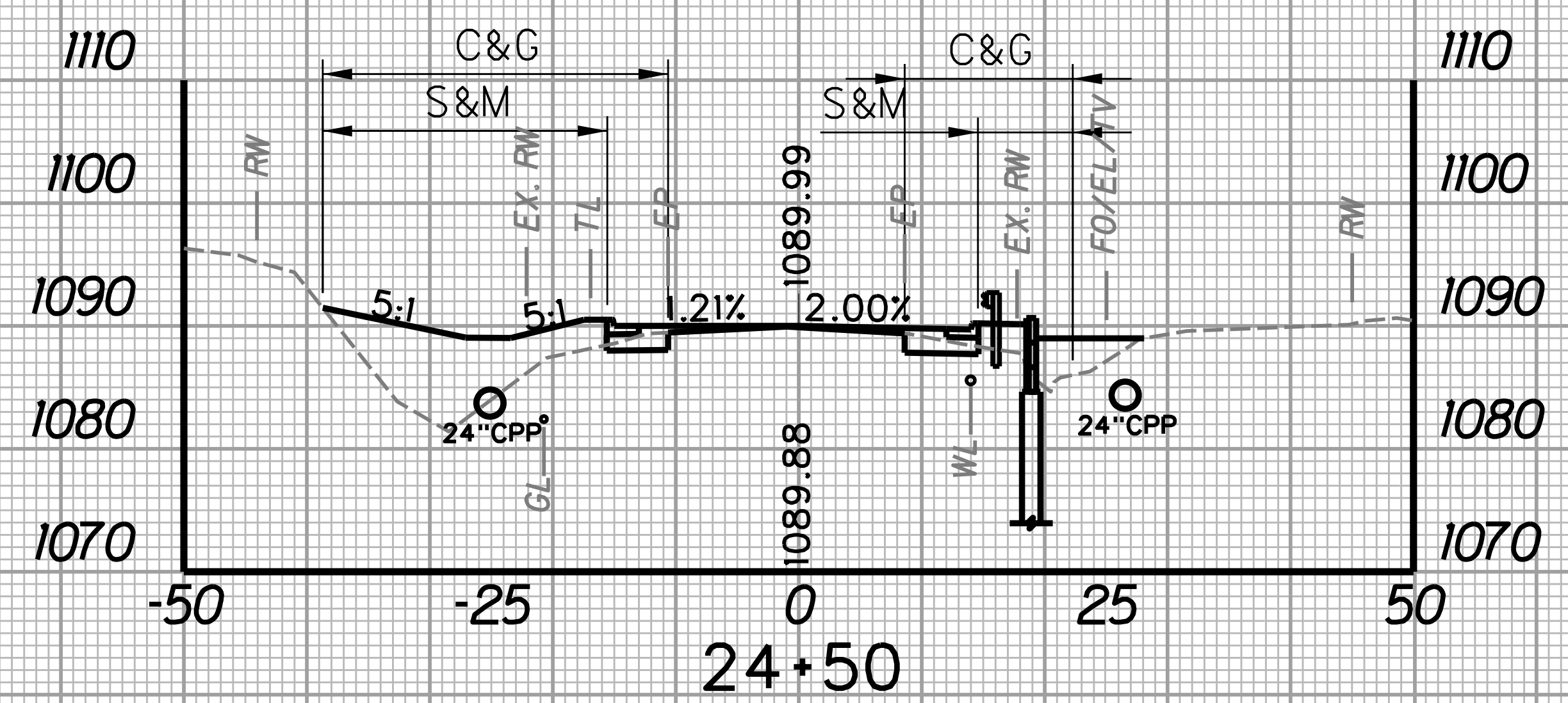
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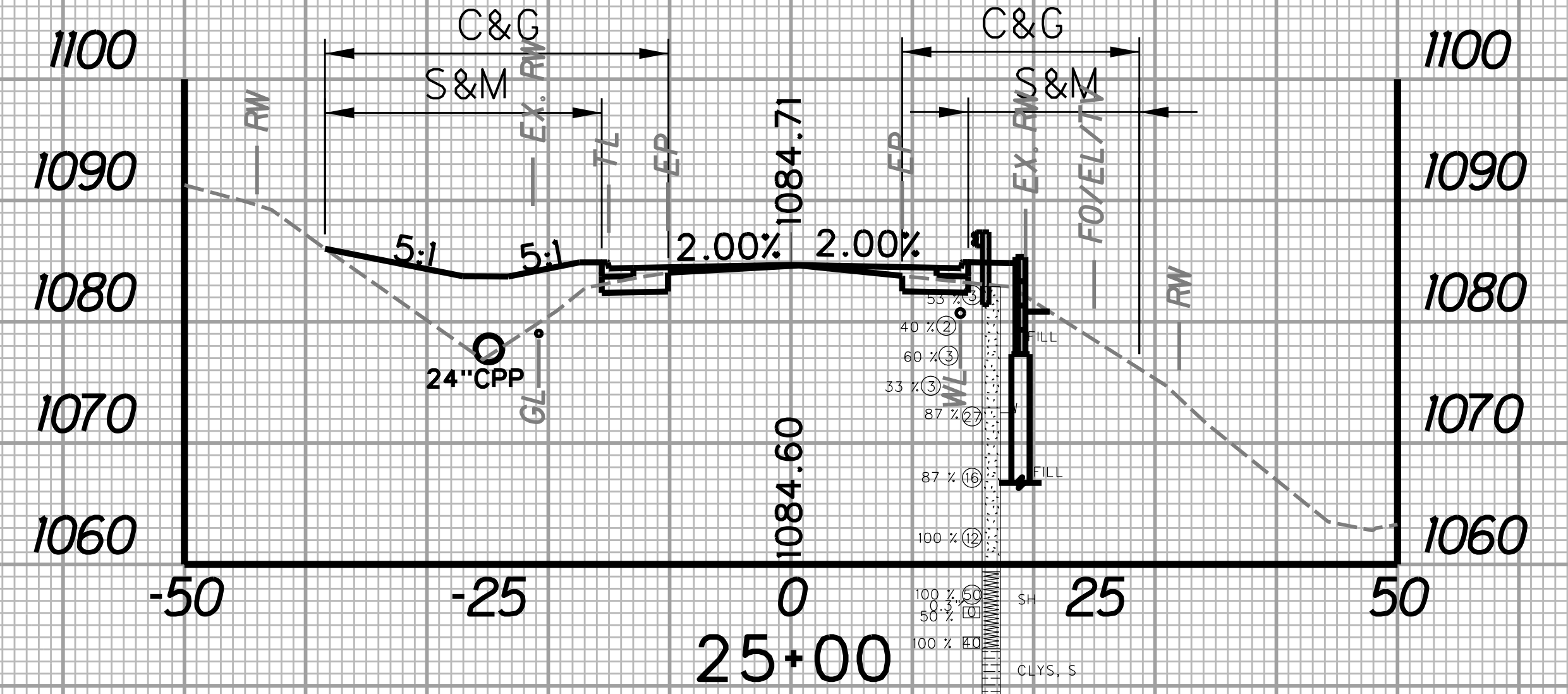
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
24+50	25	31.0	428.8	41.9	588.8	11.8	13.8	101.3	92.1	0.0	0.0
24+75	34.3			47.1		18.1		97.7		0.0	



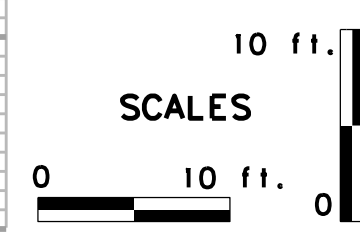
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		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
25+00	25	36.9	880.0	47.8	1186.3	18.8	16.1	83.2	73.0	0.0	0.0
25+25	33.5			44.5		15.9		74.5		0.0	



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
24+25	25	29.9	761.3	40.7	1028.8	17.7	13.7	69.2	78.9	0.0	0.0
24+50	31.0			41.6		11.8		101.3		0.0	

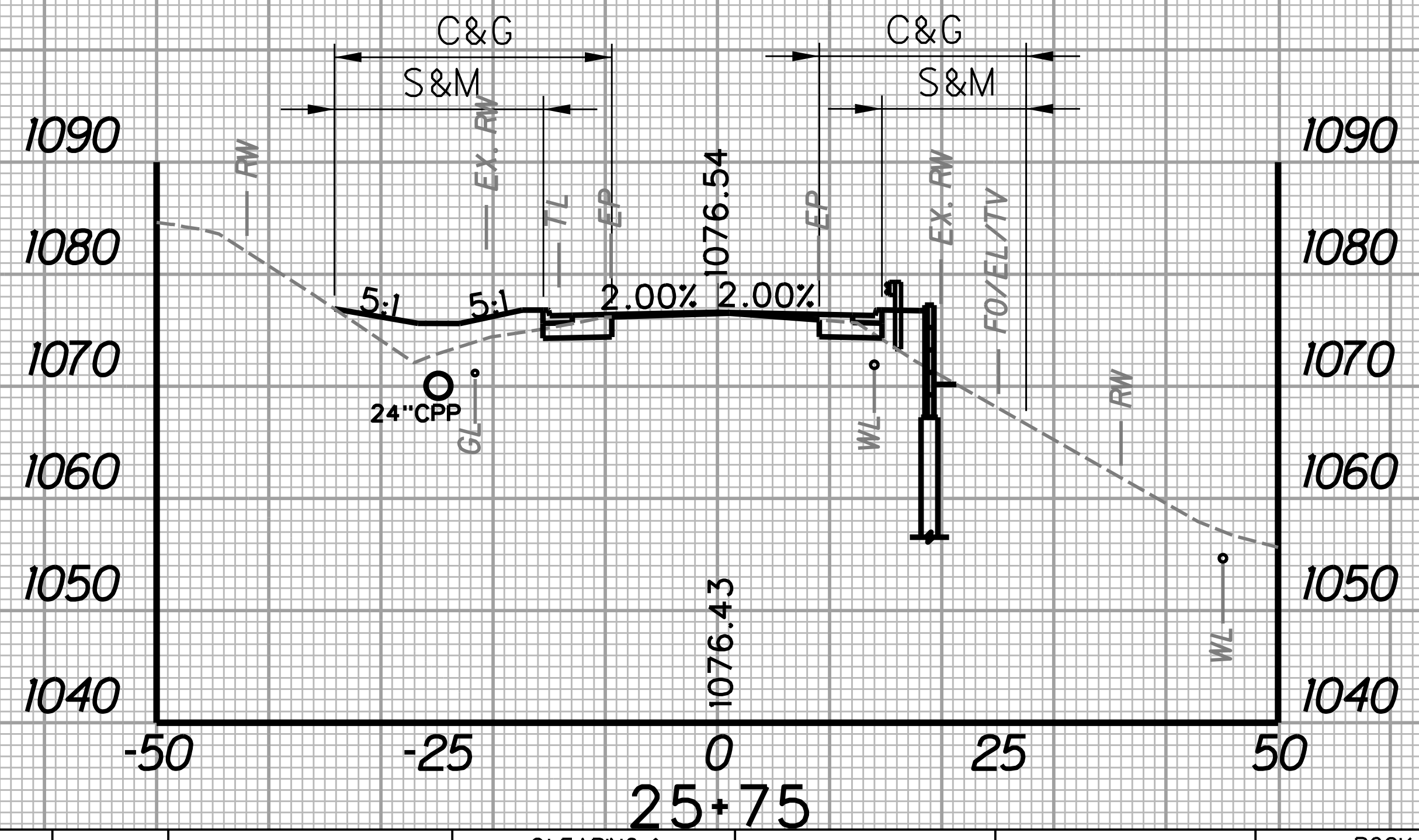


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
24+75	25	34.3	890.0	47.1	1186.3	18.1	17.1	97.7	83.8	0.0	0.0
25+00	36.9			47.8		18.8		83.2		0.0	

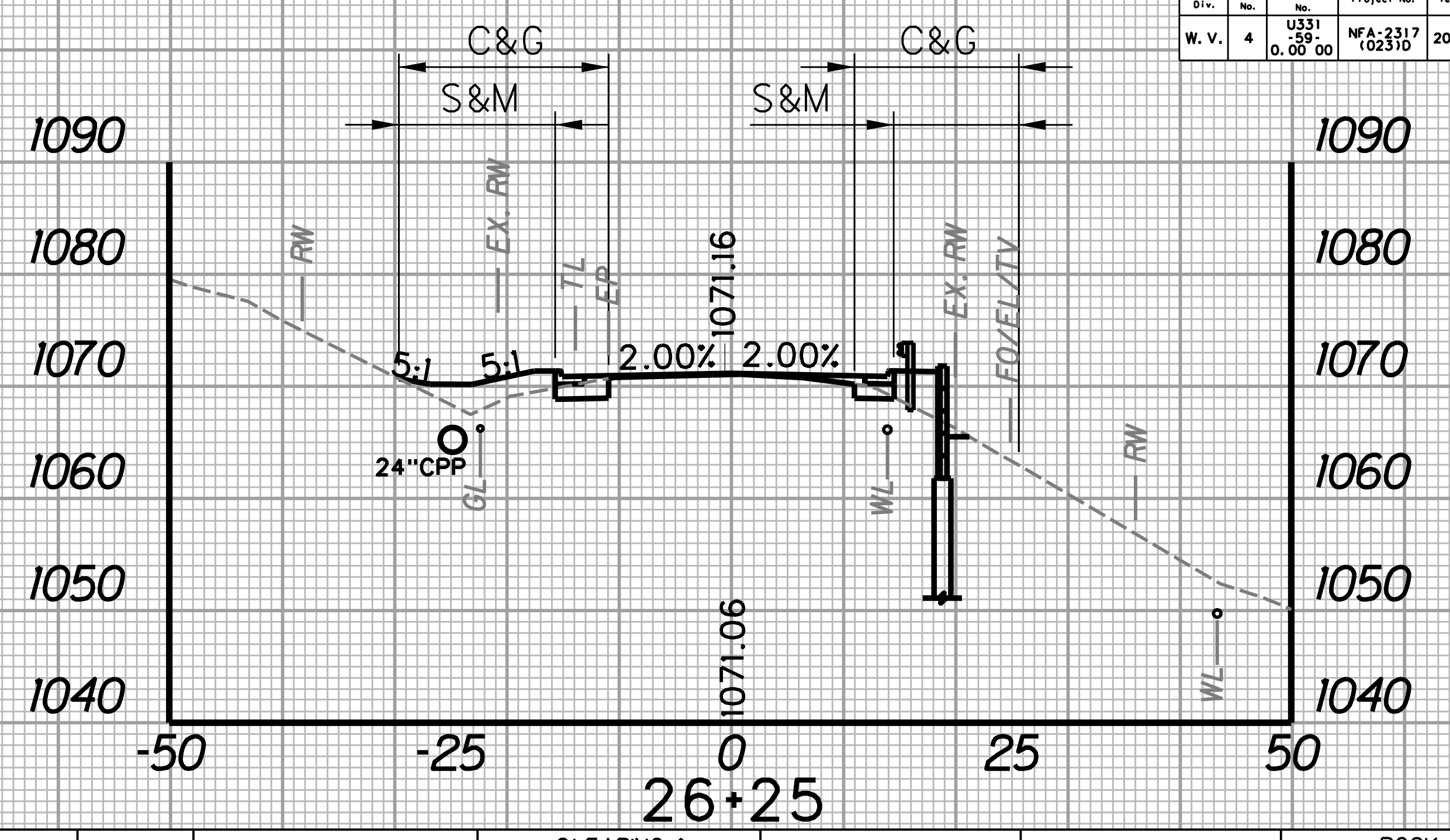


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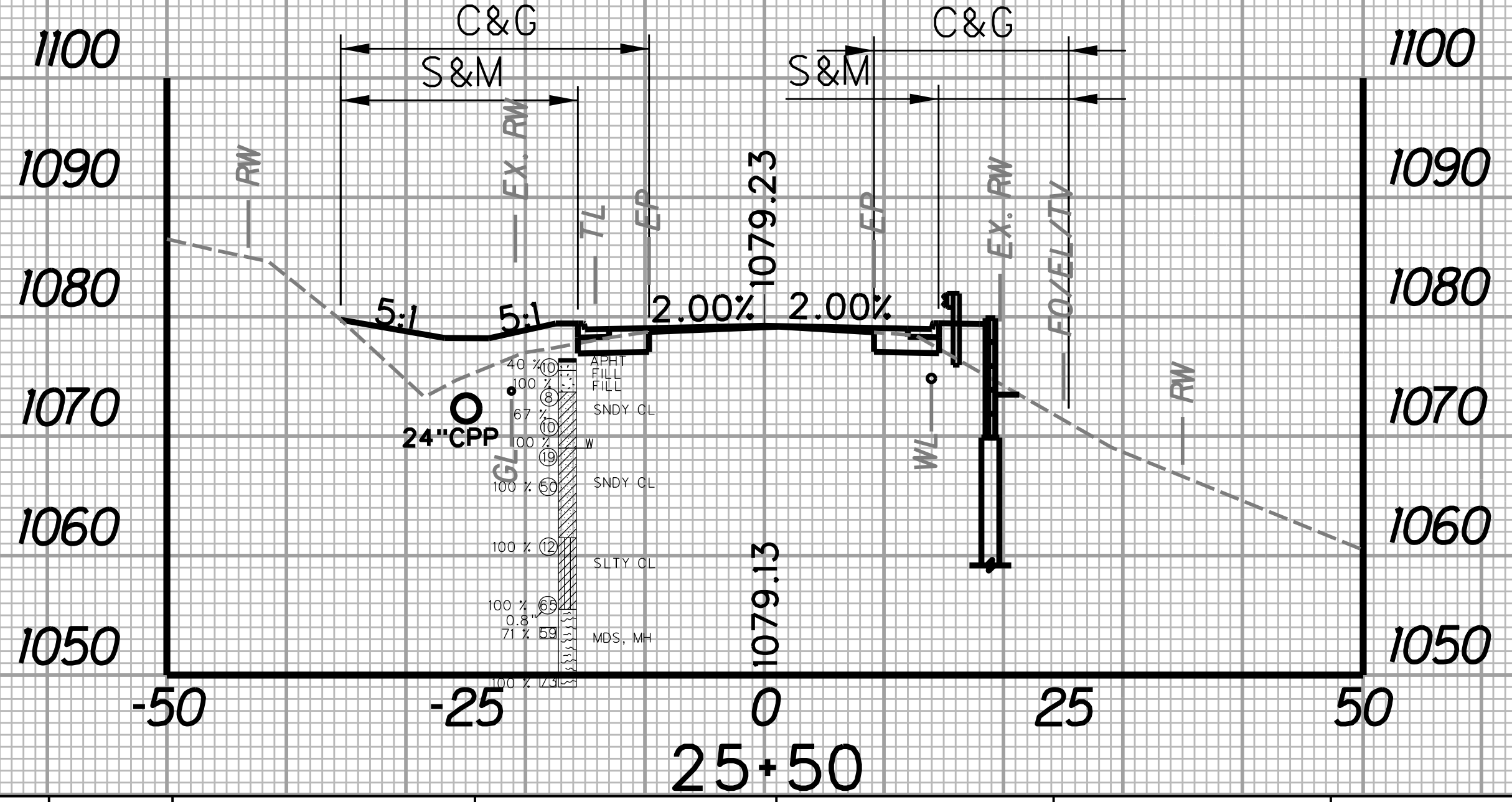
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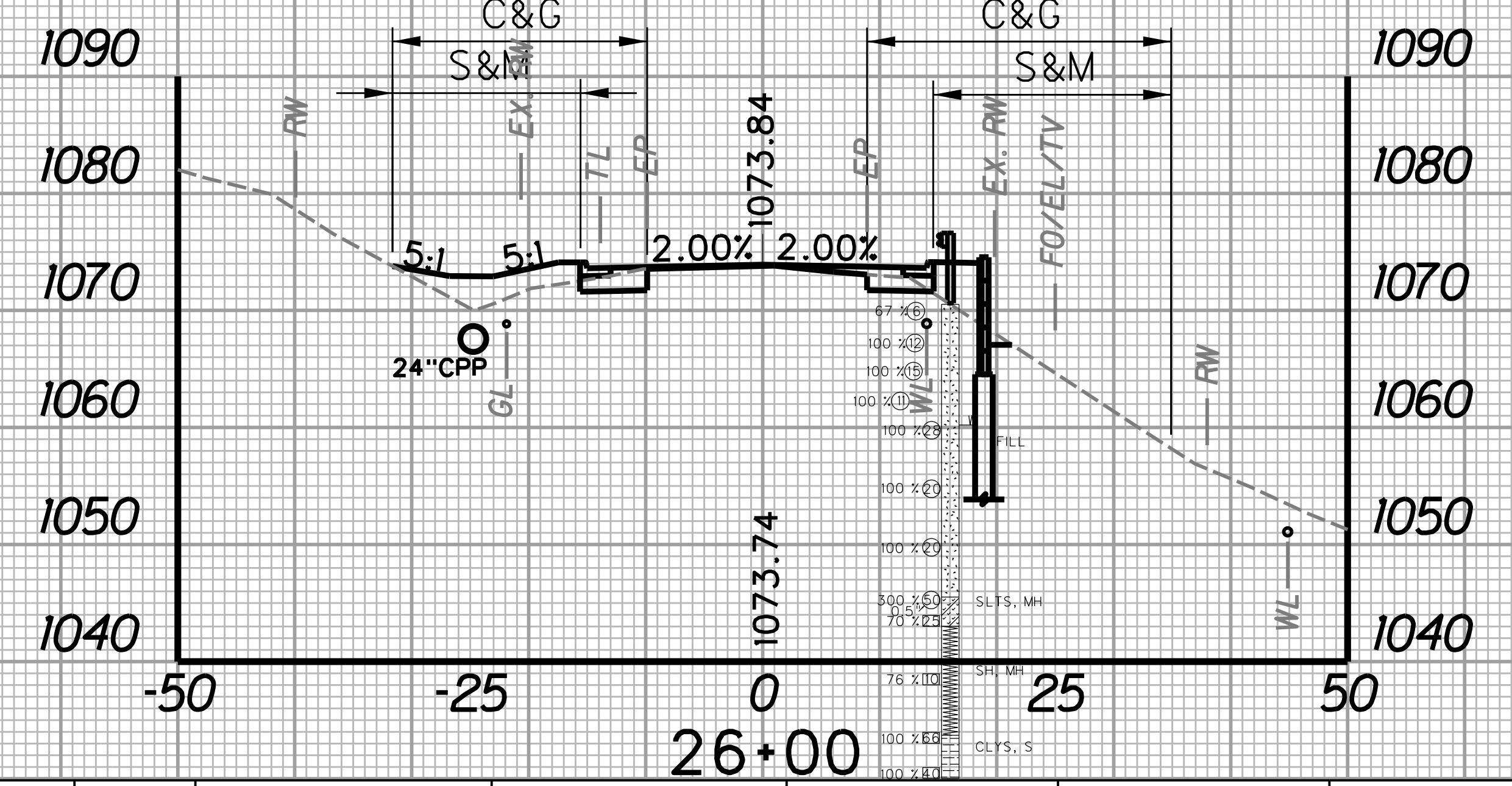
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
25+50	25	30.8	778.8	42.1	1065.0	17.0	15.9	53.5	42.4	0.0	0.0
25+75	25	31.5		43.1		17.4		38.1		0.0	



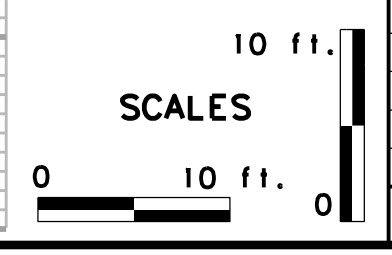
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
26+00	25	36.4	768.8	47.8	1015.0	32.6	20.6	27.5	23.2	0.0	0.0
26+25	25	25.1		33.4		11.8		22.7		0.0	



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
25+25	25	33.5	803.8	44.5	1082.5	15.9	15.2	74.5	59.3	0.0	0.0
25+50	25	30.8		42.1		17.0		53.5		0.0	

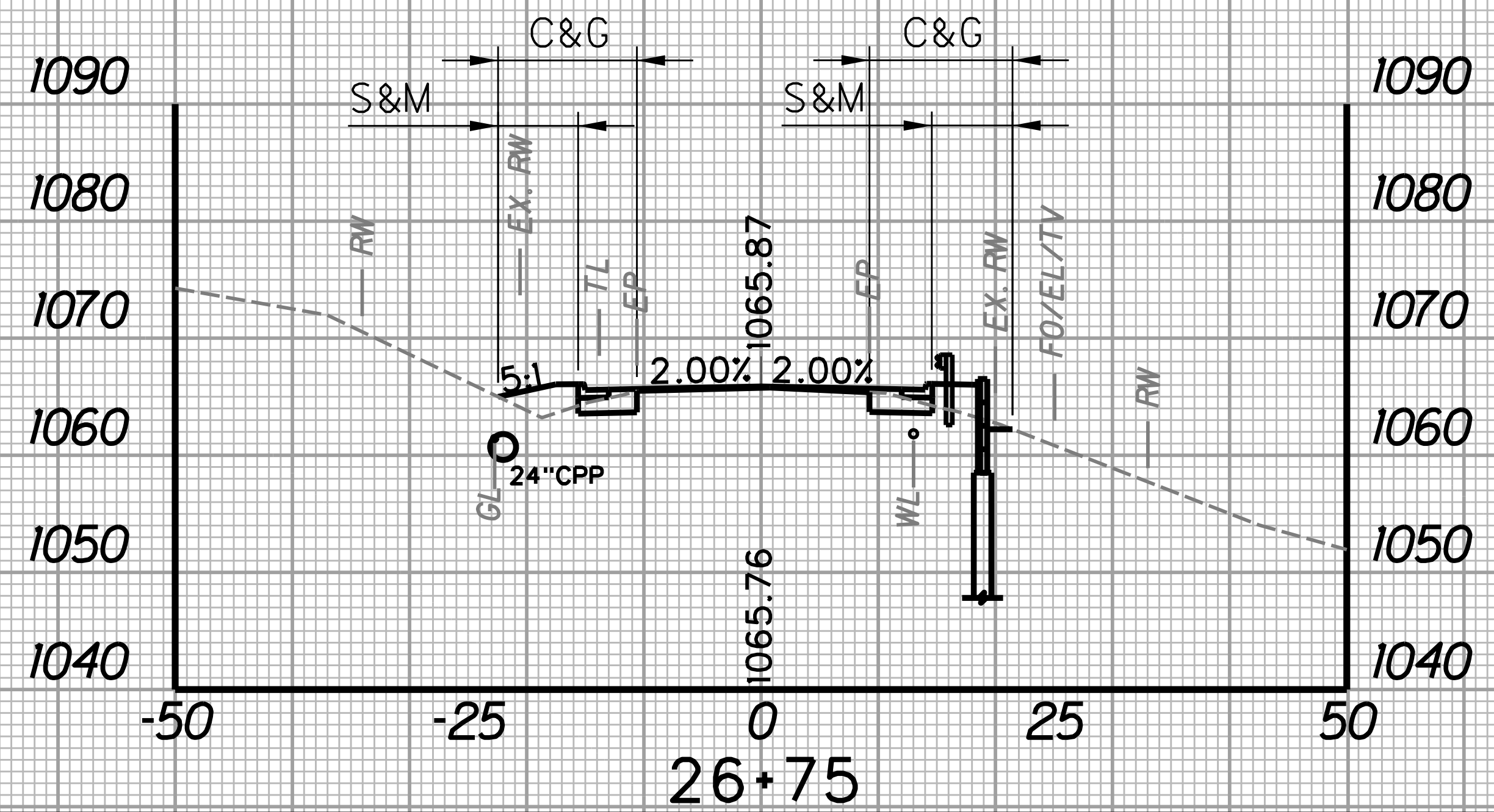


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
25+75	25	31.5	848.8	43.1	1136.3	17.4	23.1	38.1	30.4	0.0	0.0
26+00	25	36.4		47.8		32.6		27.5		0.0	

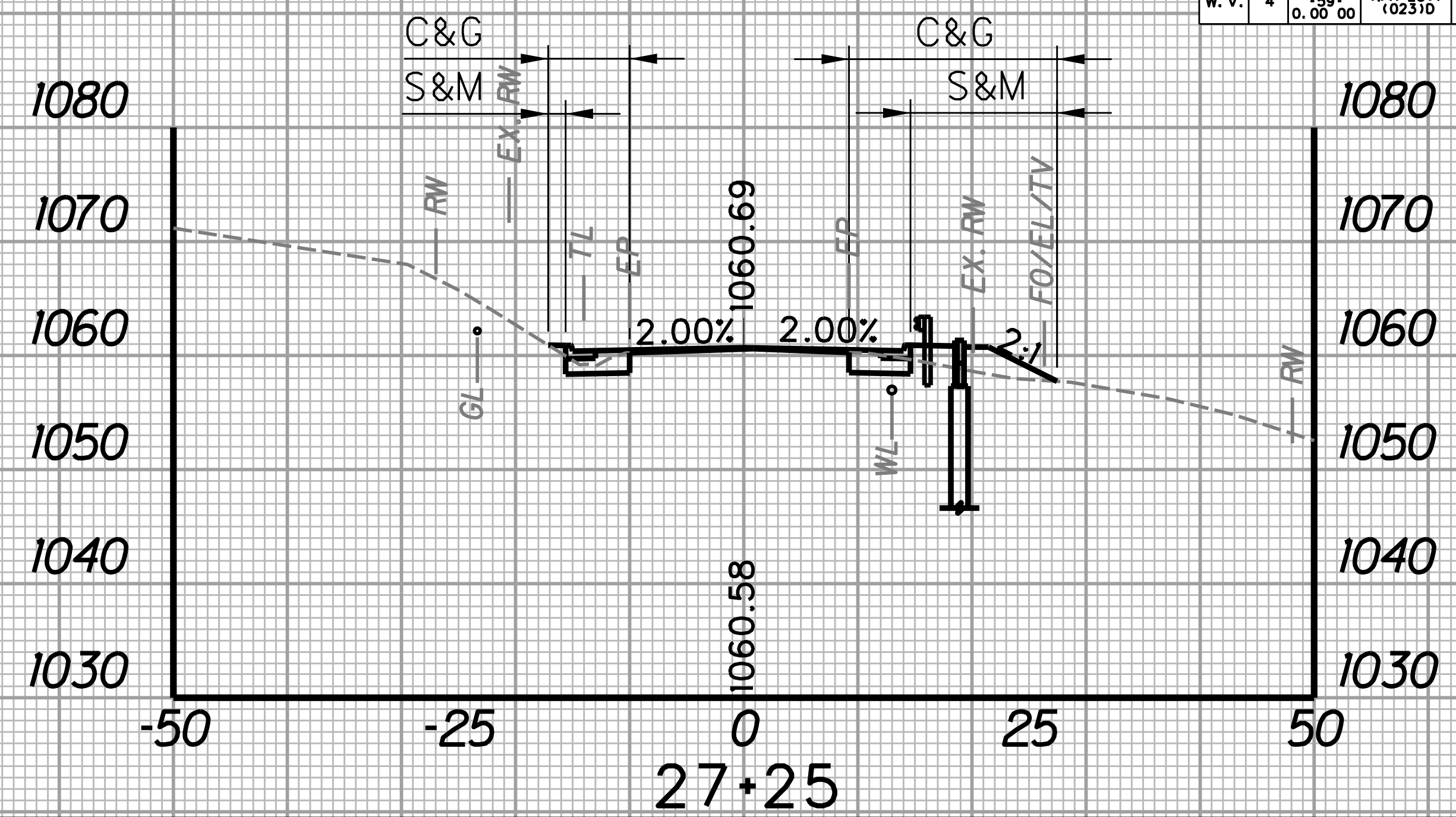


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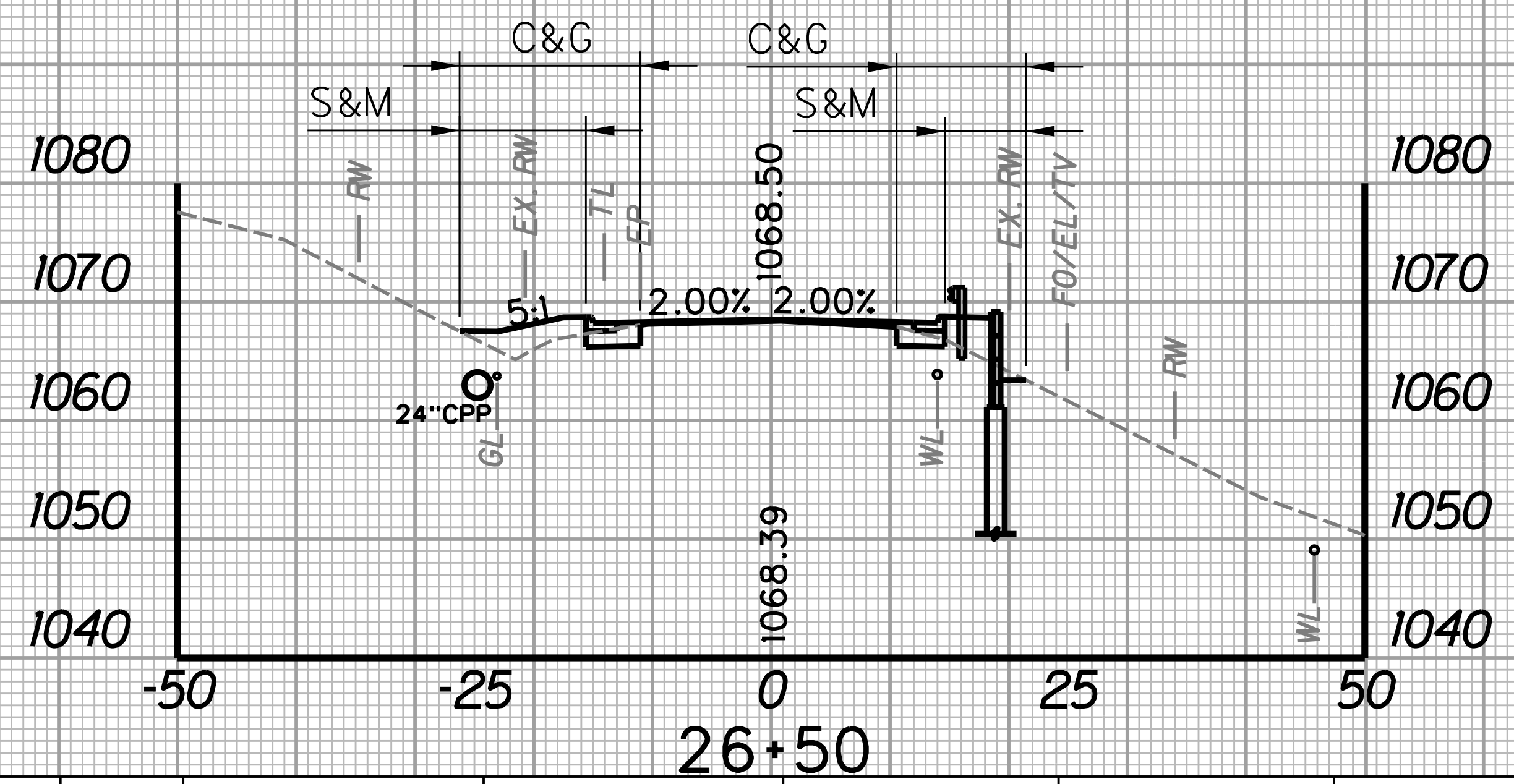
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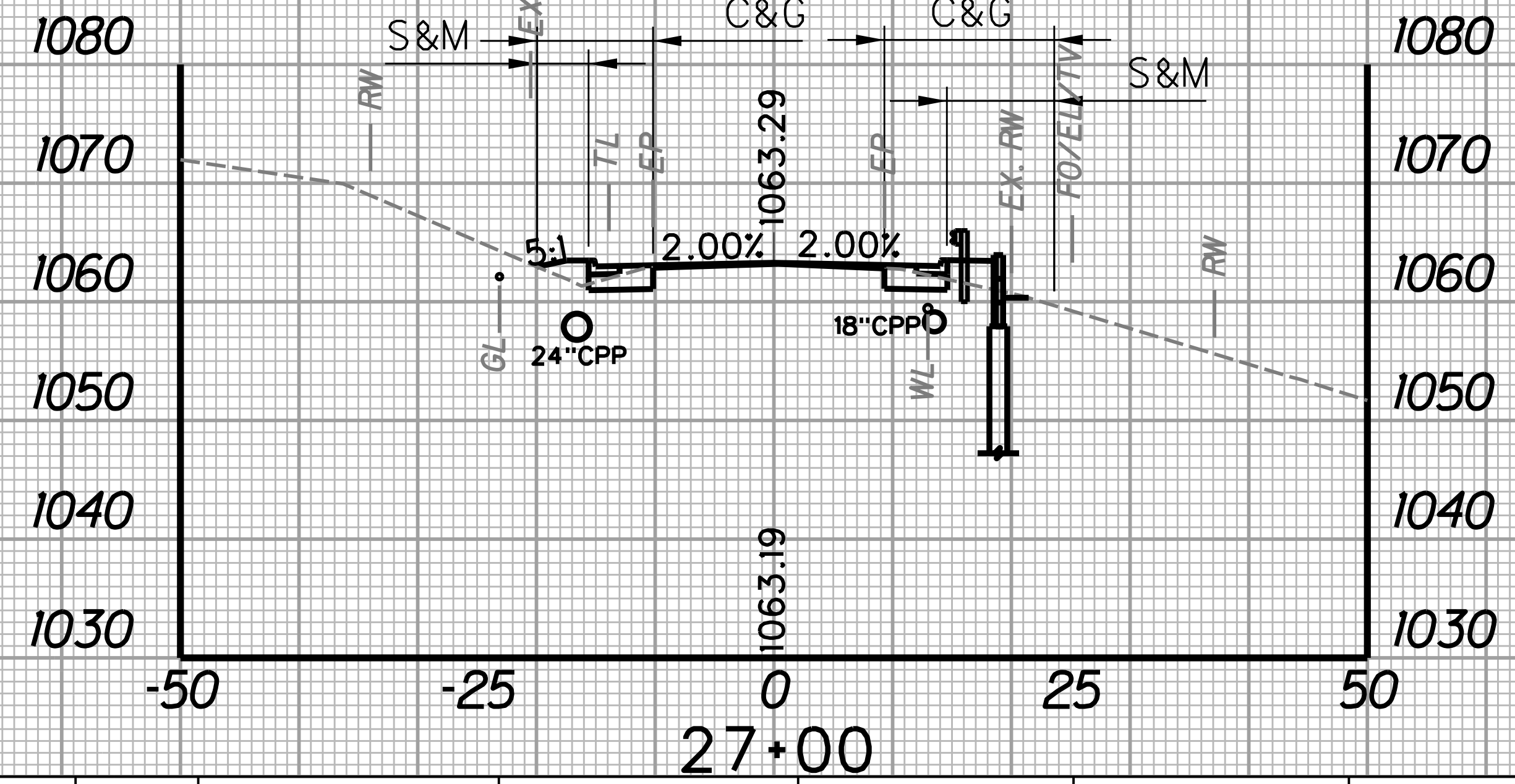
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
26+50	25	26.2	498.8	45.1	863.8	12.2	11.1	17.2	13.6	0.0	0.0
26+75	25	13.7		24.0		11.8		12.1		0.0	



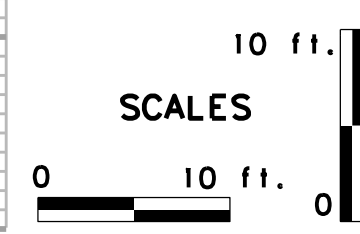
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
27+00	25	13.4	346.3	24.1	618.8	14.4	13.7	6.7	9.1	0.0	0.0
27+25	25	14.3		25.4		15.2		12.9		0.0	



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
26+25	25	25.1	641.3	33.4	981.3	11.8	11.1	22.7	18.5	0.0	0.0
26+50	25	17.4		26.2		12.2		17.2		0.0	

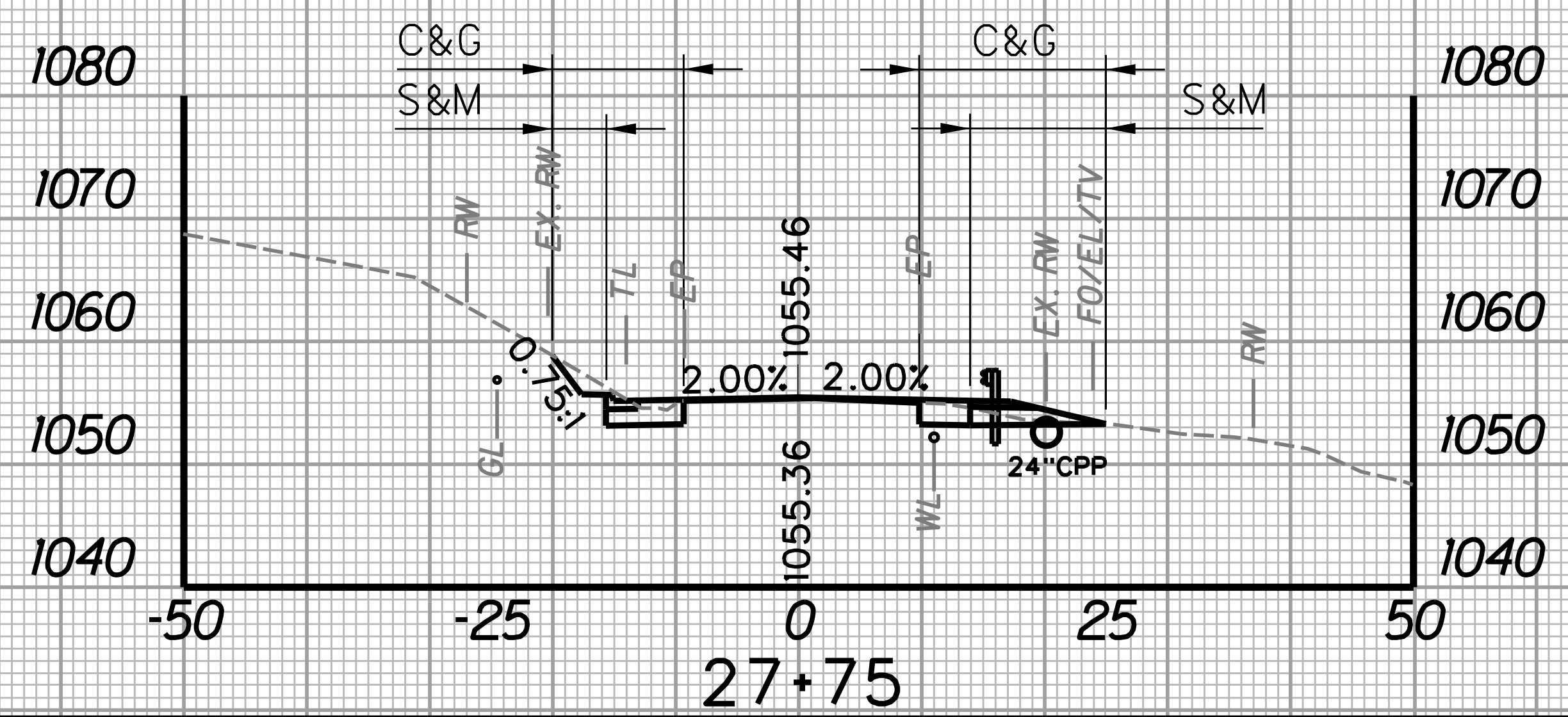


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
26+75	25	13.7	338.8	24.0	601.3	11.8	36.1	12.1	0.0	0.0	0.0
27+00	25	13.4		24.1		14.4		6.7		0.0	

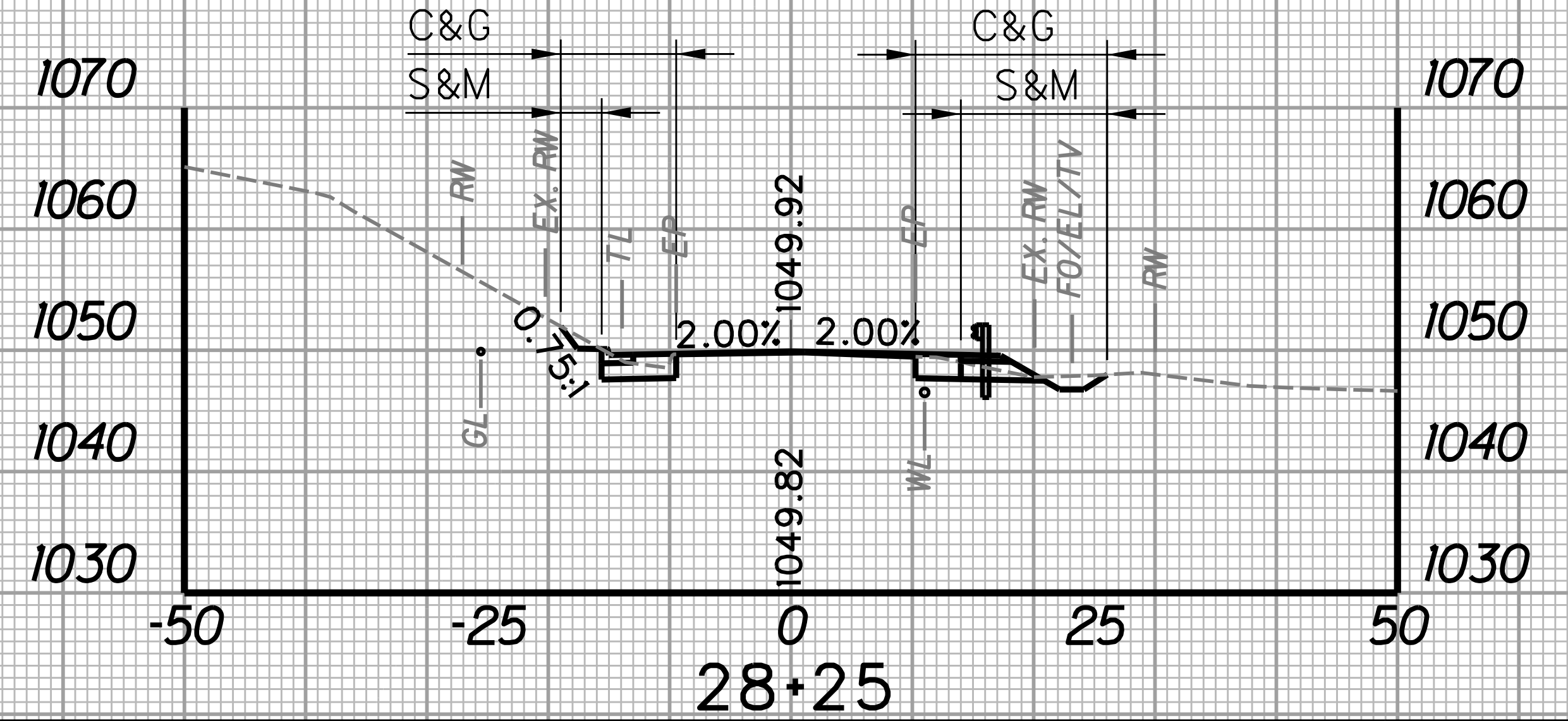


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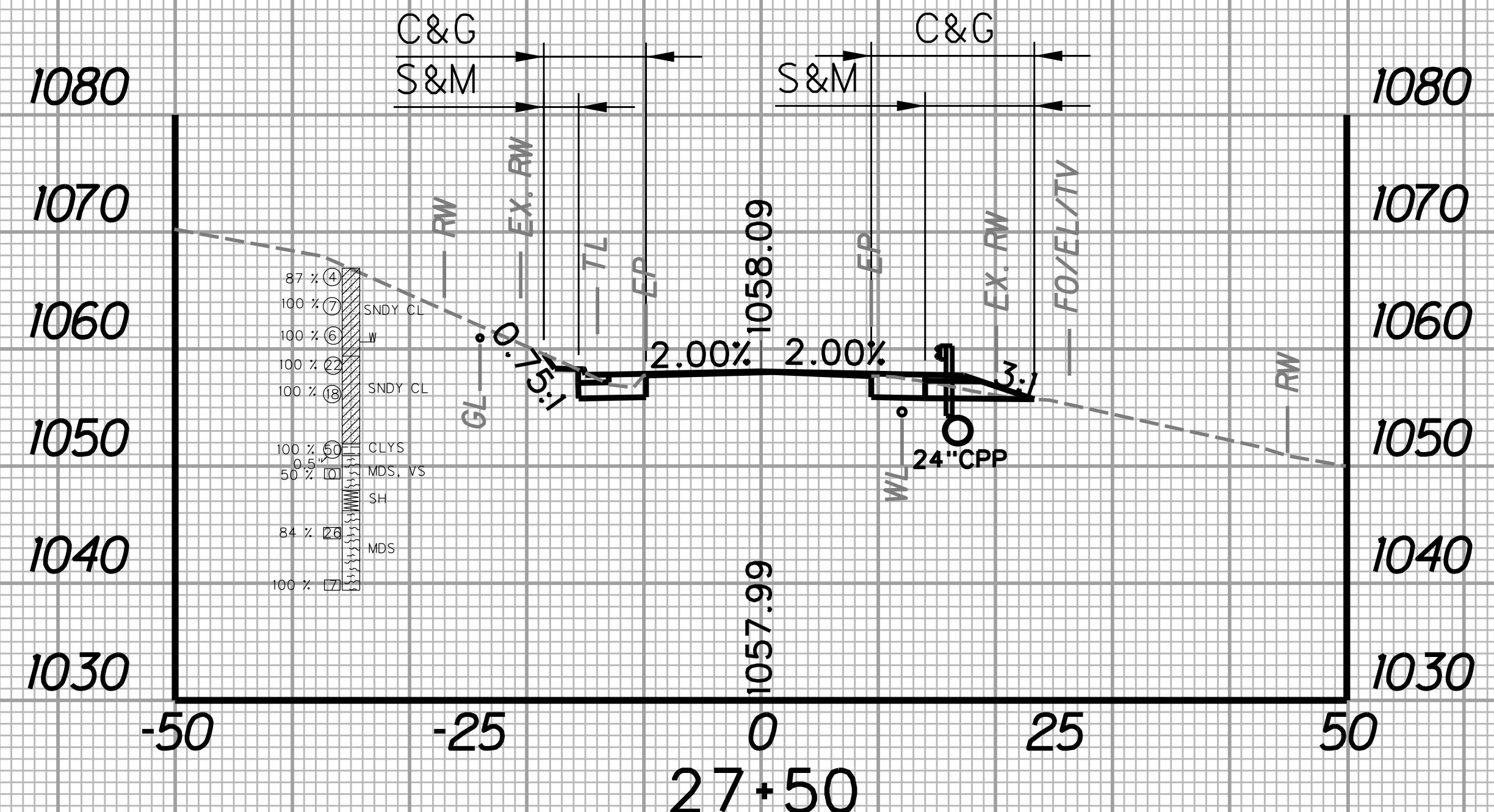
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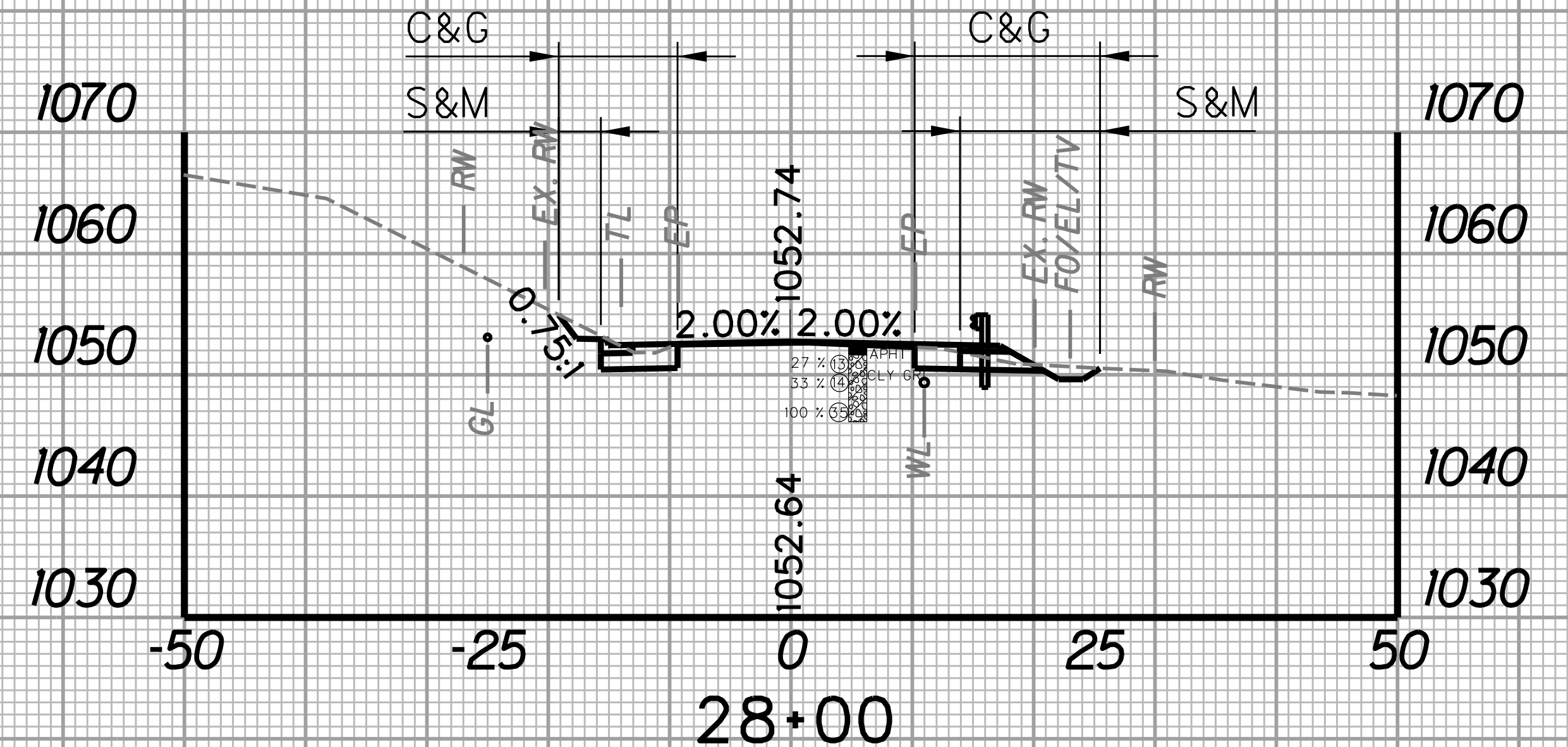
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
27+50		12.3		22.7		22.6		0.0		0.0	
27+75	25	15.5	347.5	25.8	606.3	28.0	23.4	0.0	0.0	0.0	0.0



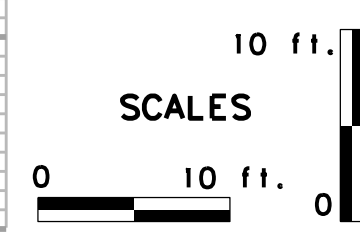
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
28+00		15.1		25.1		28.4		0.0		0.0	
28+25	25	15.5	382.5	25.4	631.3	25.9	25.1	0.0	0.0	0.0	0.0



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
27+25		14.3		25.4		15.2		12.9		0.0	
27+50	25	12.3	332.5	22.7	601.3	22.6	42.8	0.0	6.0	0.0	0.0

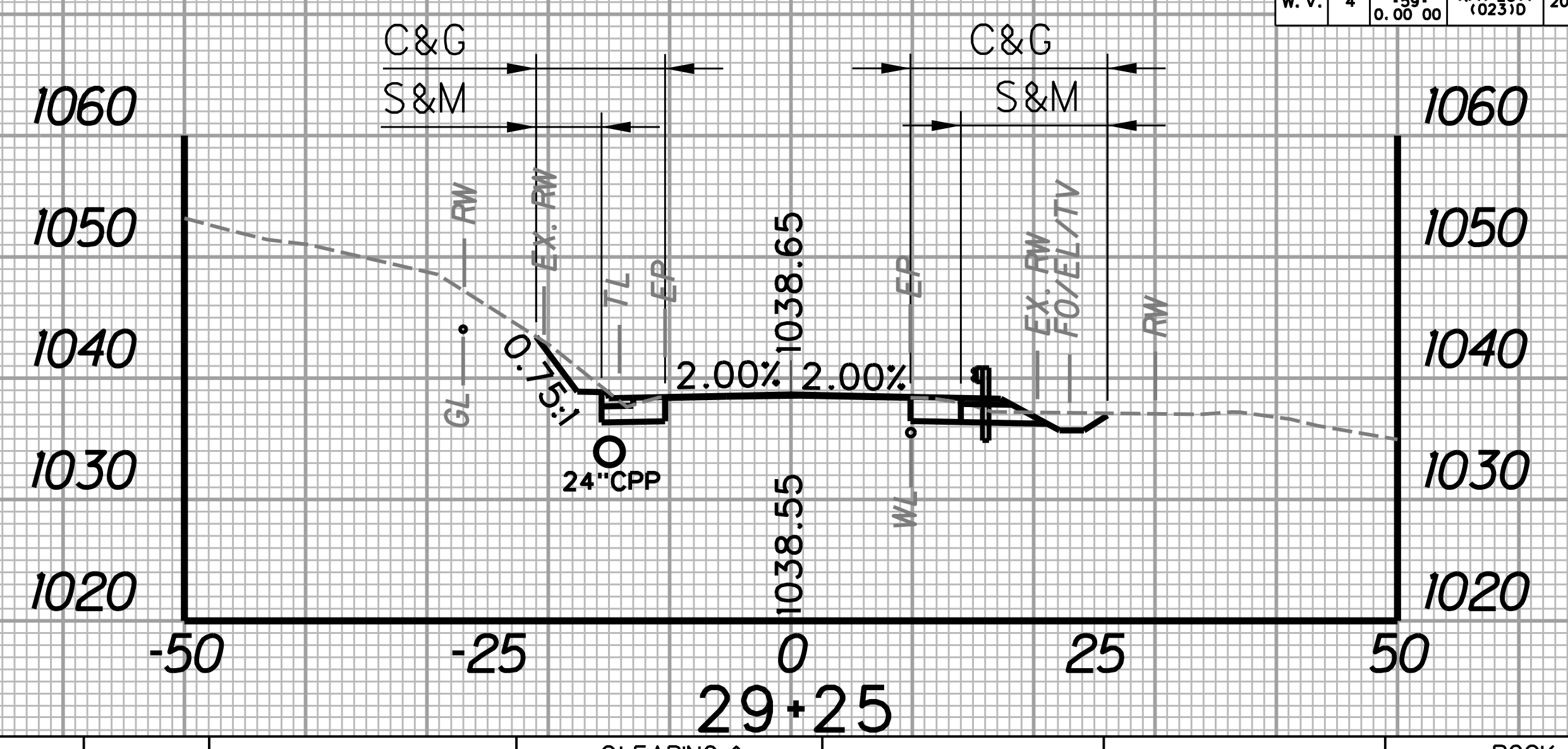
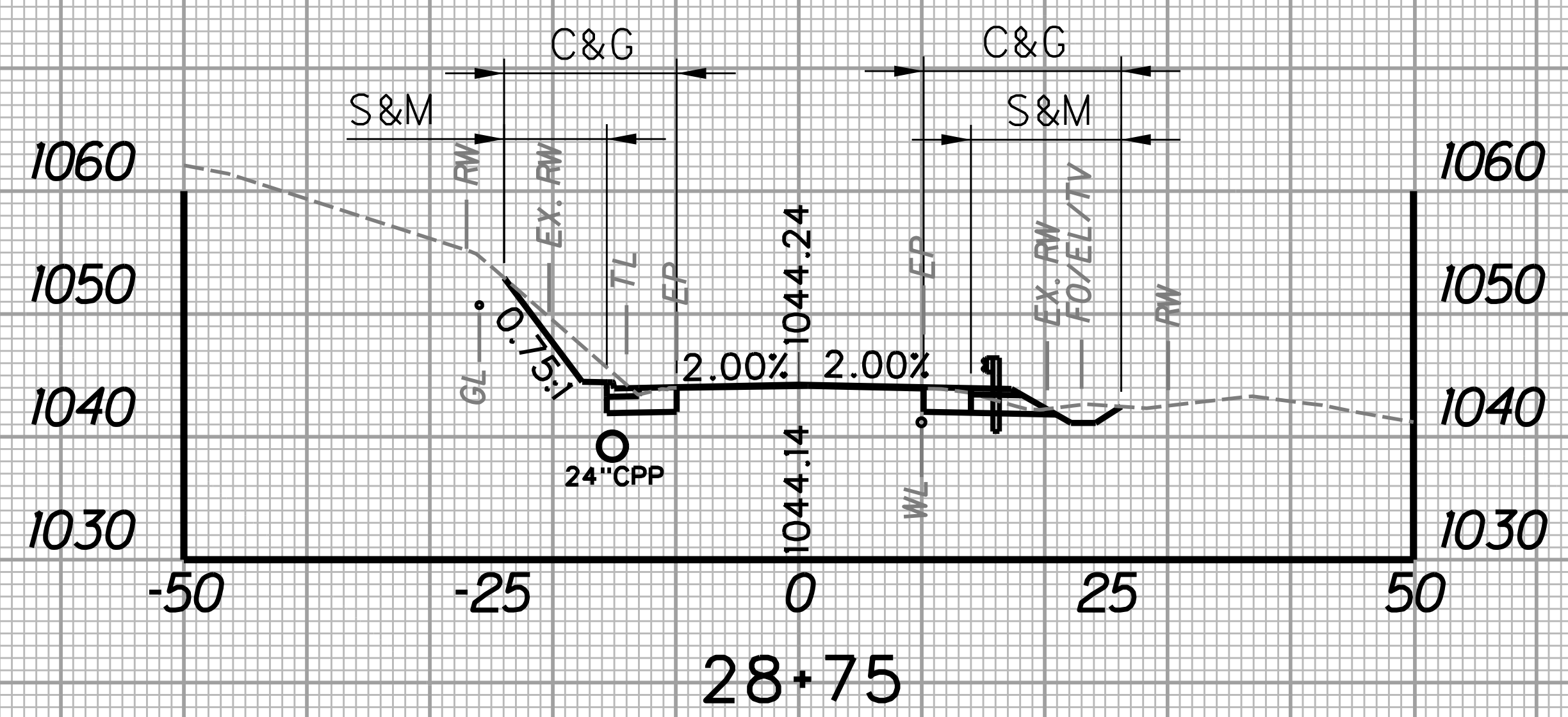


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
27+75		15.5		25.8		28.0		0.0		0.0	
28+00	25	15.1	382.5	25.1	636.3	28.4	26.1	0.0	0.0	0.0	0.0



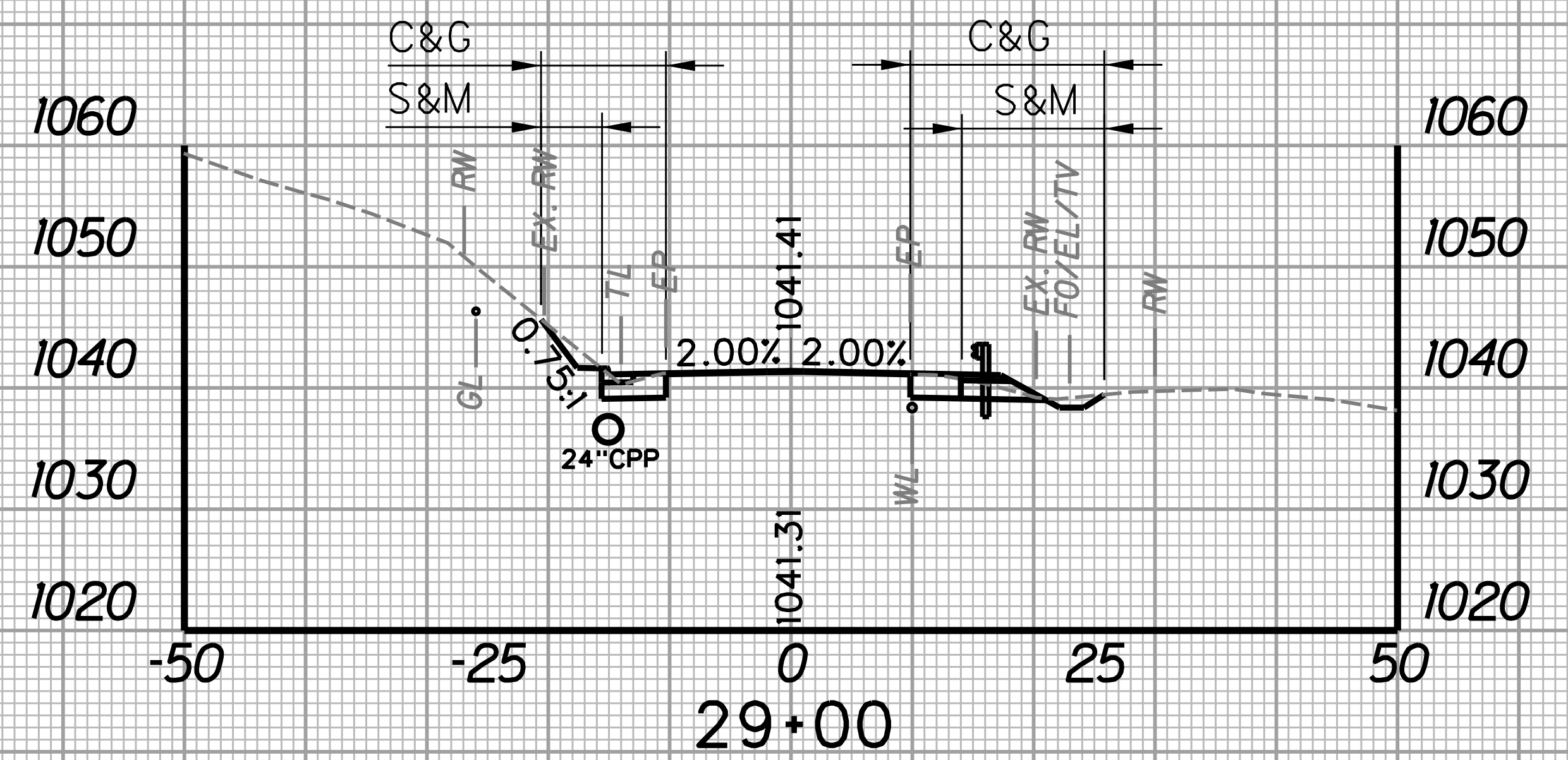
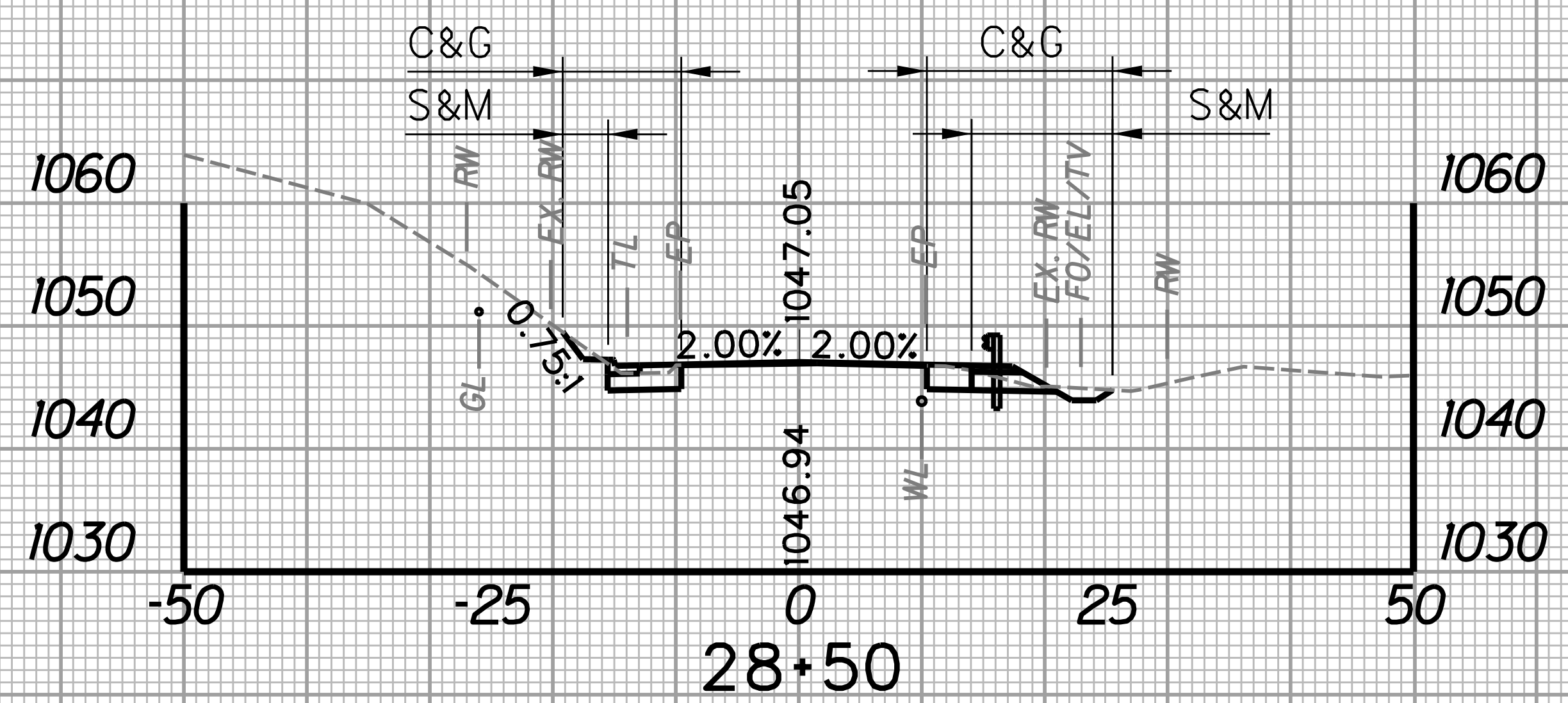
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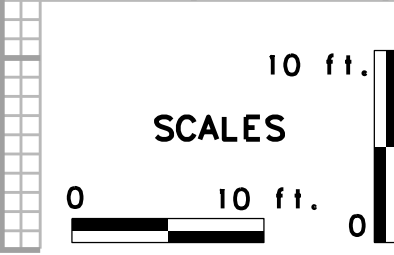
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		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
28+50	25	15.1	446.3	24.8	686.3	25.5	31.6	0.0	0.0	0.0	0.0
28+75	20.6	20.6		30.1		42.8		0.0		0.0	

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
29+00	25	16.8	428.8	26.3	665.0	28.6	26.9	0.0	0.0	0.0	0.0
29+25	17.5	17.5		26.9		29.4		0.0		0.0	



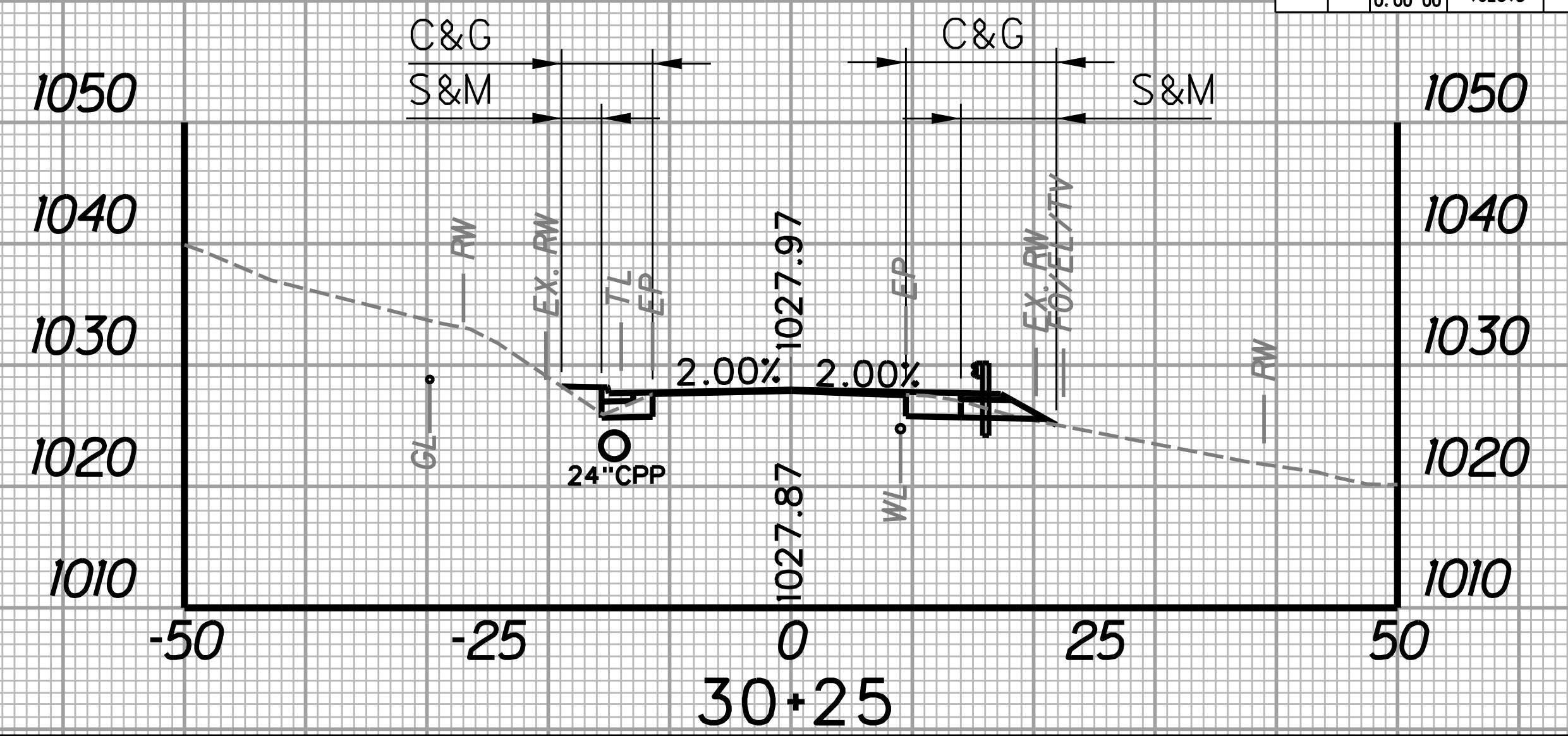
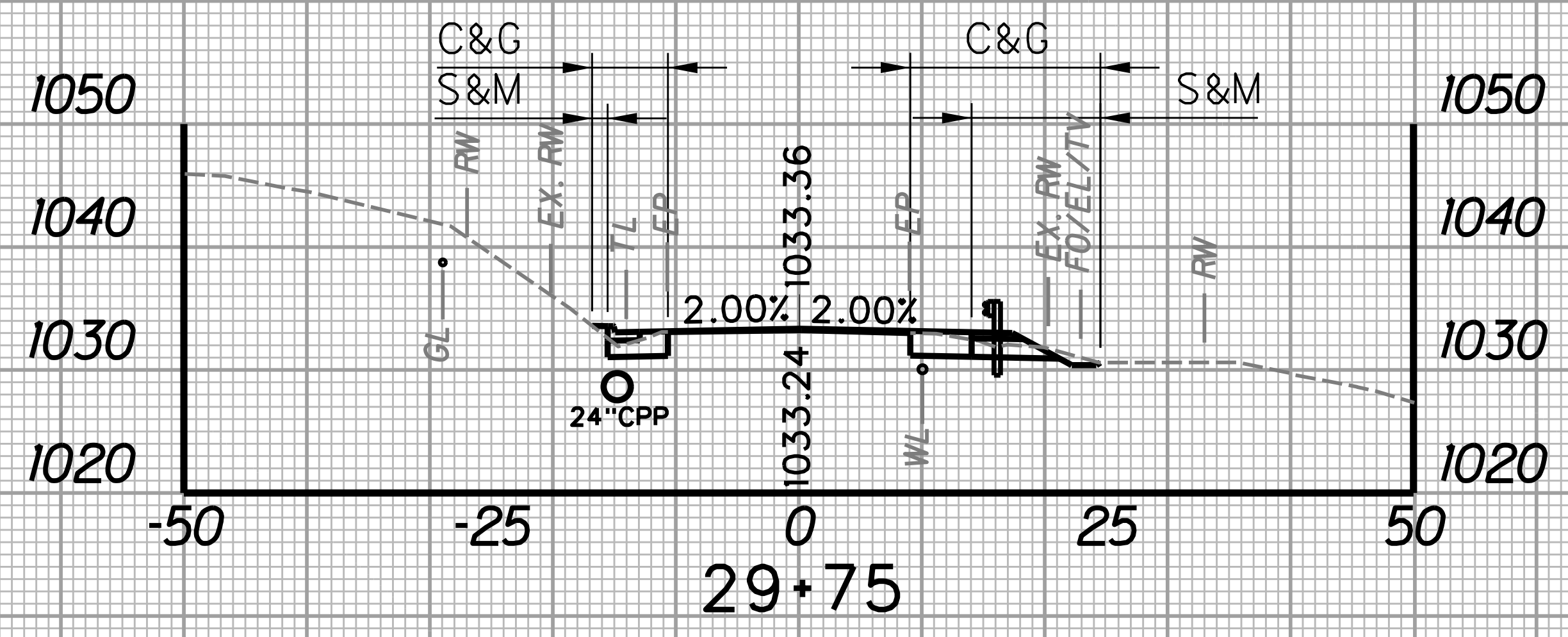
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		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
28+25	25	15.5	382.5	25.4	627.5	25.9	23.8	0.0	0.0	0.0	0.0
28+50	15.1	15.1		24.8		25.5		0.0		0.0	

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
28+75	20.6	20.6		30.1		42.8		0.0		0.0	
29+00	16.8	16.8	9.0	26.3	428.1	28.6	33.1	0.0	0.0	0.0	0.0



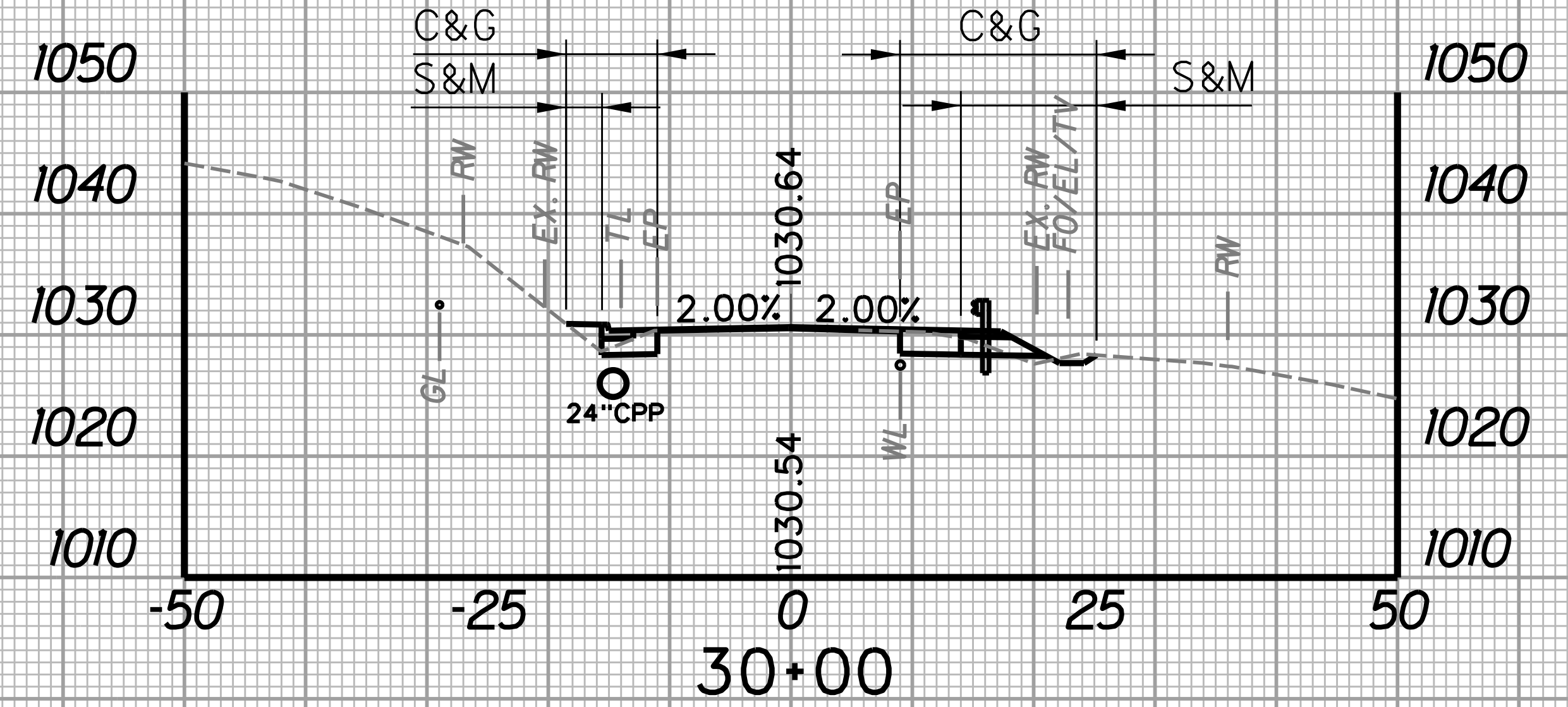
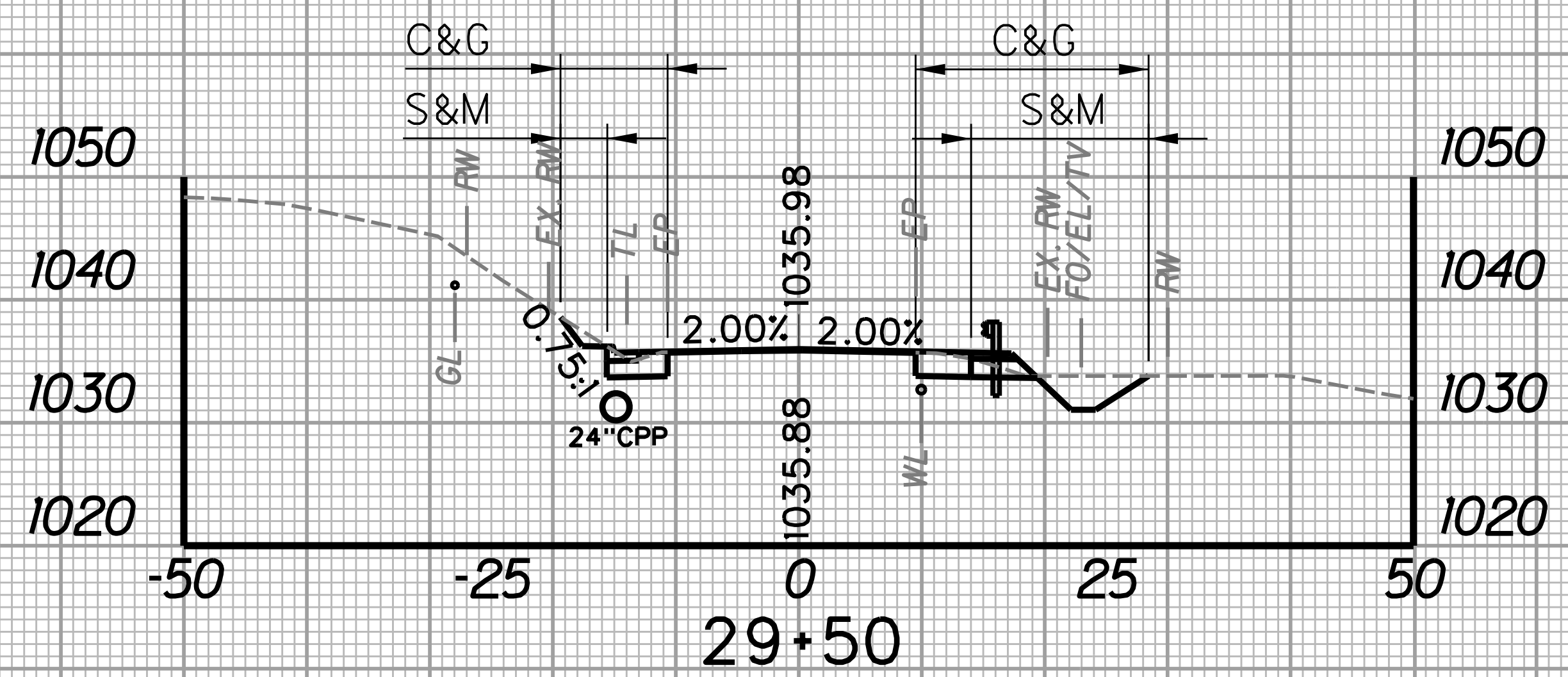
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

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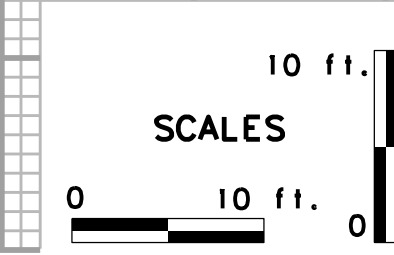
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		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
29+50	25	18.3	376.3	27.7	617.5	37.8	28.7	0.0	0.2	0.0	0.0
29+75	25	11.8		21.7		24.2		0.4		0.0	

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
30+00	25	14.1	316.3	23.7	545.0	18.9	15.8	5.0	4.1	0.0	0.0
30+25	25	11.2		19.9		15.2		3.9		0.0	



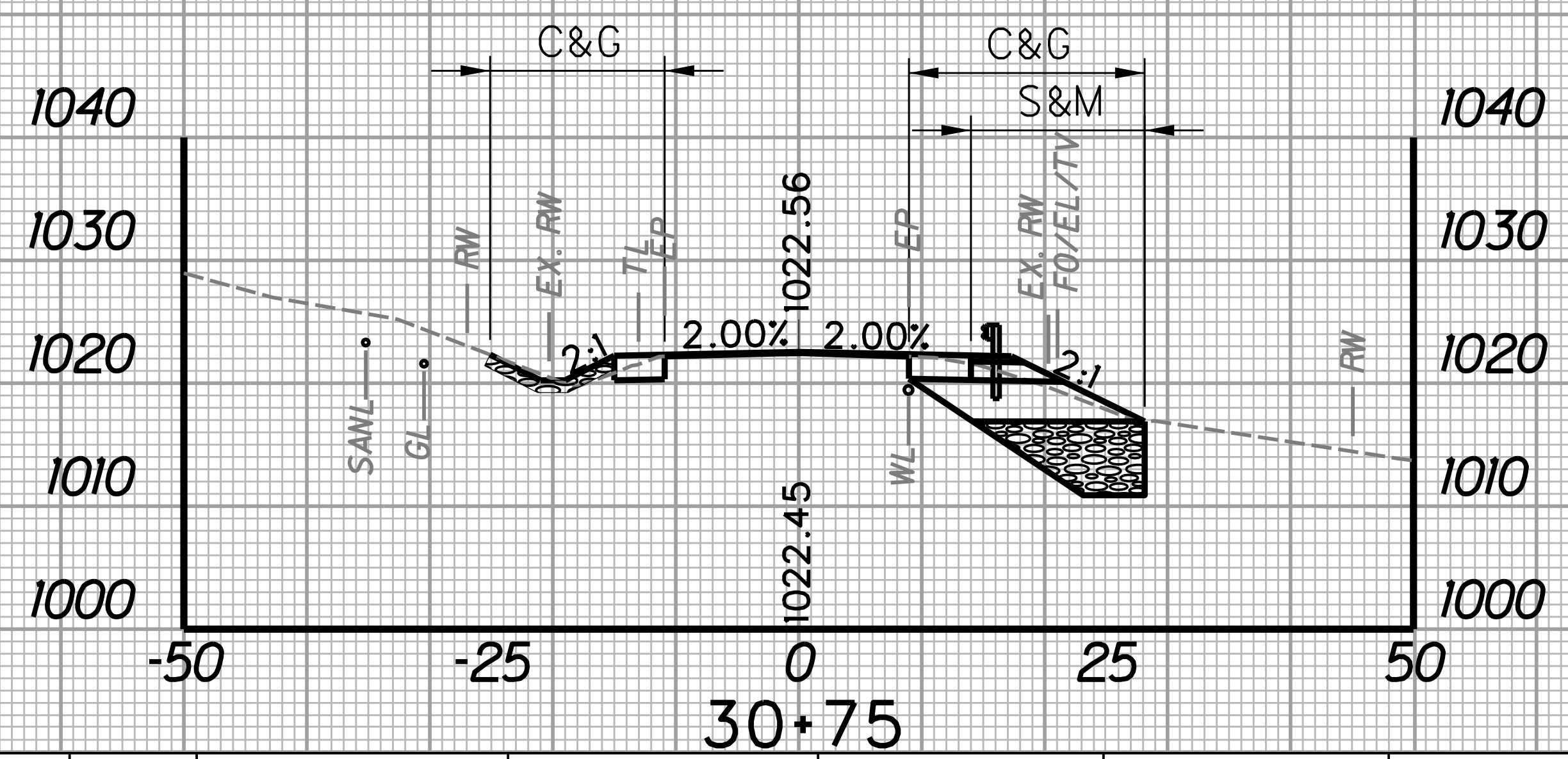
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		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
29+25	25	17.5	447.5	26.9	682.5	29.4	31.1	0.0	0.0	0.0	0.0
29+50	25	18.3		27.7		37.8		0.0		0.0	

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
29+75	25	11.8	323.8	21.7	567.5	24.2	20.0	0.4	2.5	0.0	0.0
30+00	25	14.1		23.7		18.9		5.0		0.0	

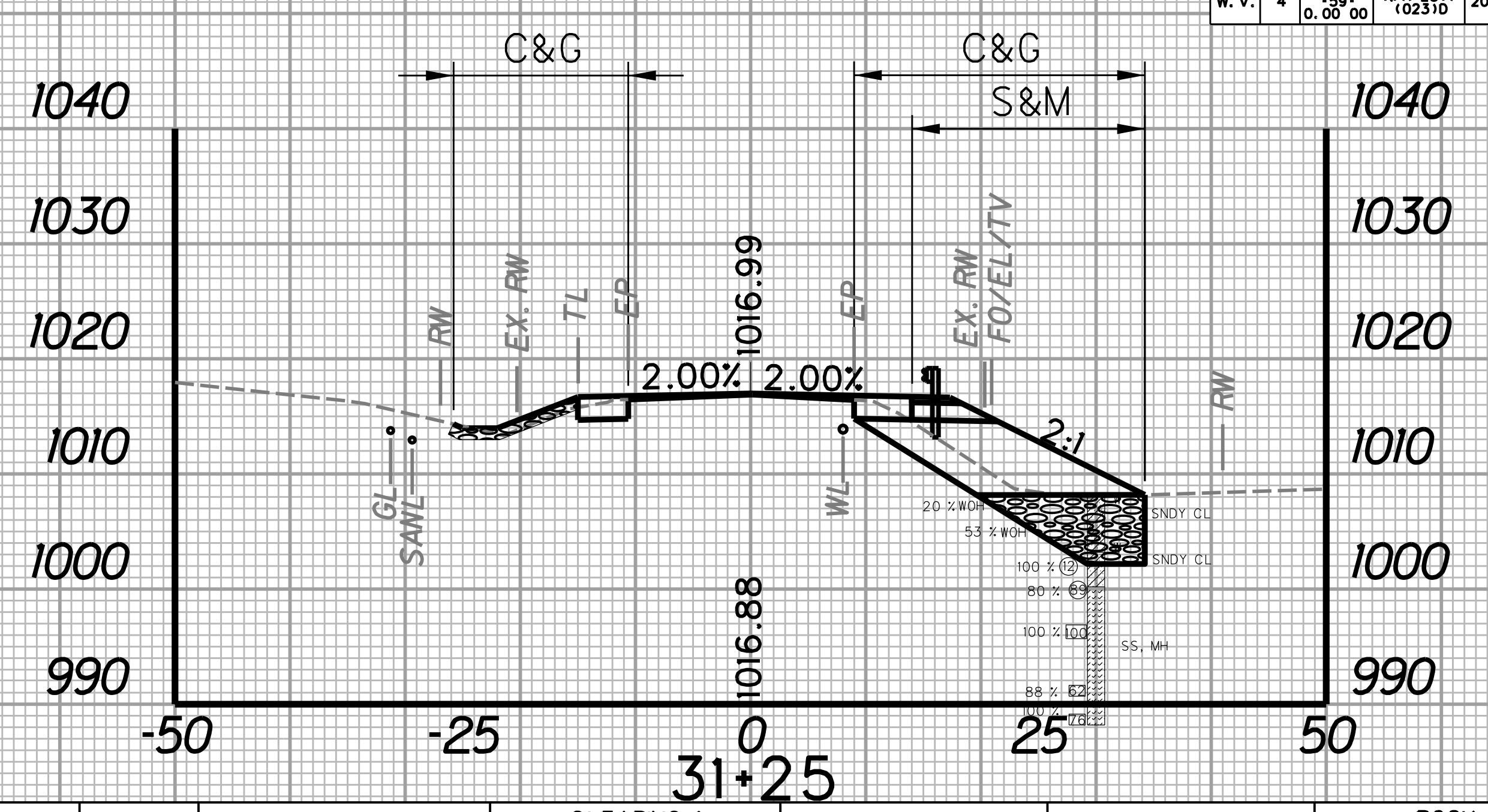


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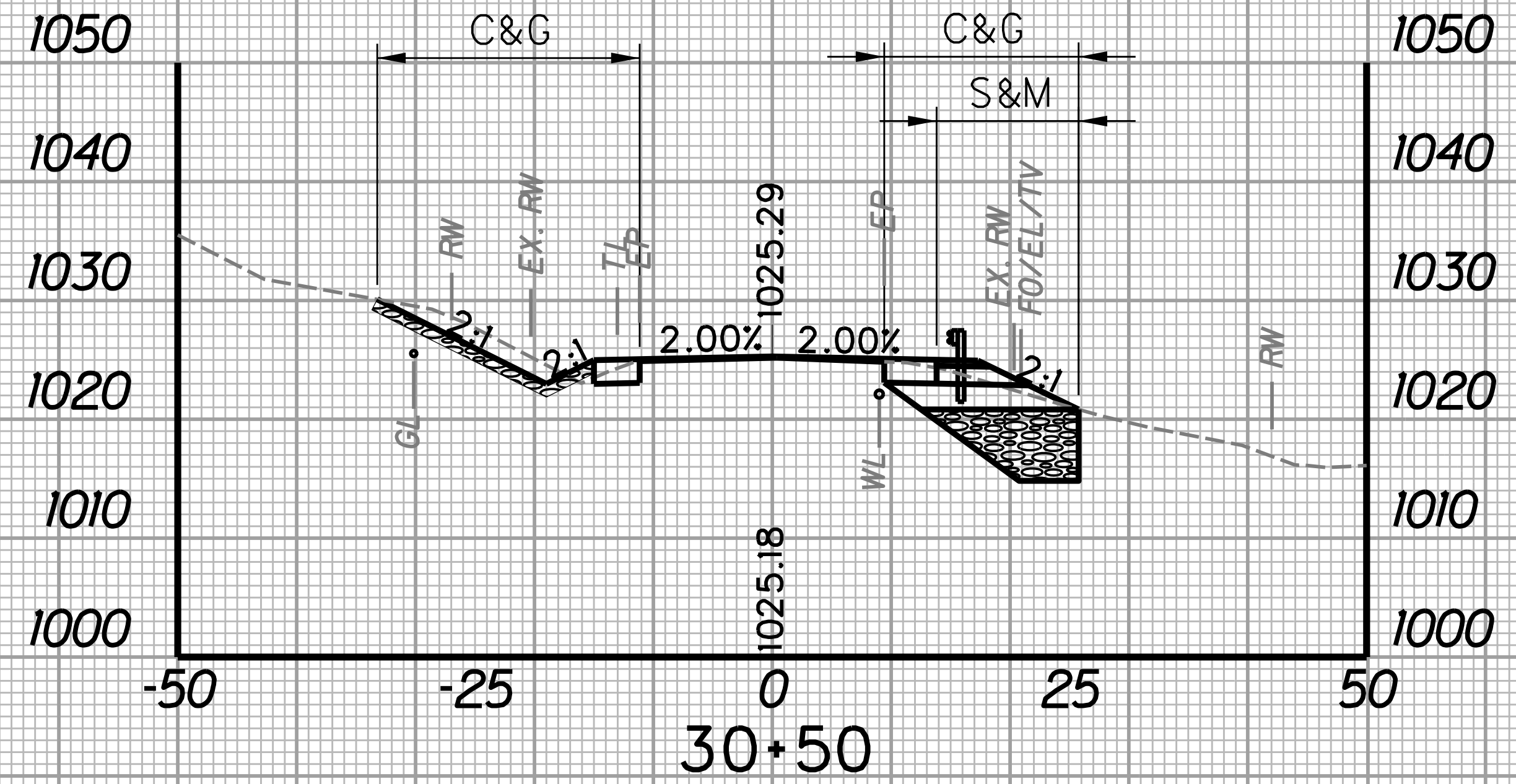
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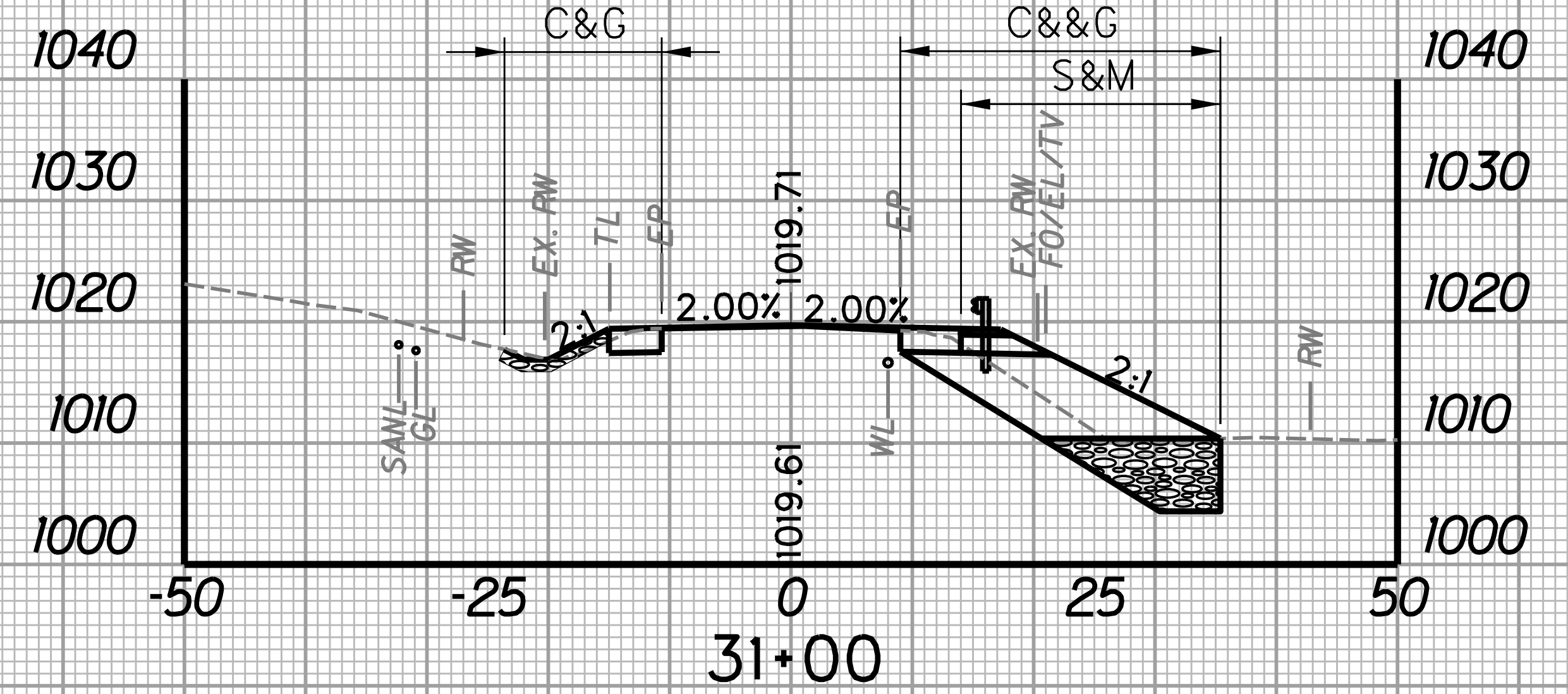
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		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
30+50	25	13.0	338.8	38.4	896.3	131.8	117.0	2.9	3.8	64.7	61.7
30+75	25	14.1	338.8	33.3	896.3	121.0	117.0	5.3	3.8	68.5	61.7



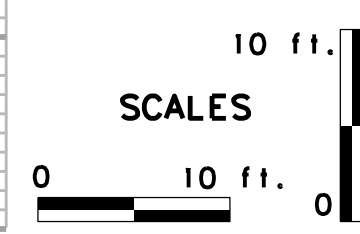
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		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
31+00	21.5	19.2	508.8	39.3	996.3	121.3	55.7	68.4	68.4	64.3	
31+25	25	19.2	508.8	40.4	996.3	108.1	57.9	70.4	70.4	64.3	



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
30+25	11.2	11.2	302.5	19.9	728.8	15.2	68.1	3.9	3.1	0.0	30.0
30+50	25	13.00	302.5	38.4	728.8	131.8	68.1	2.9	3.1	64.7	30.0



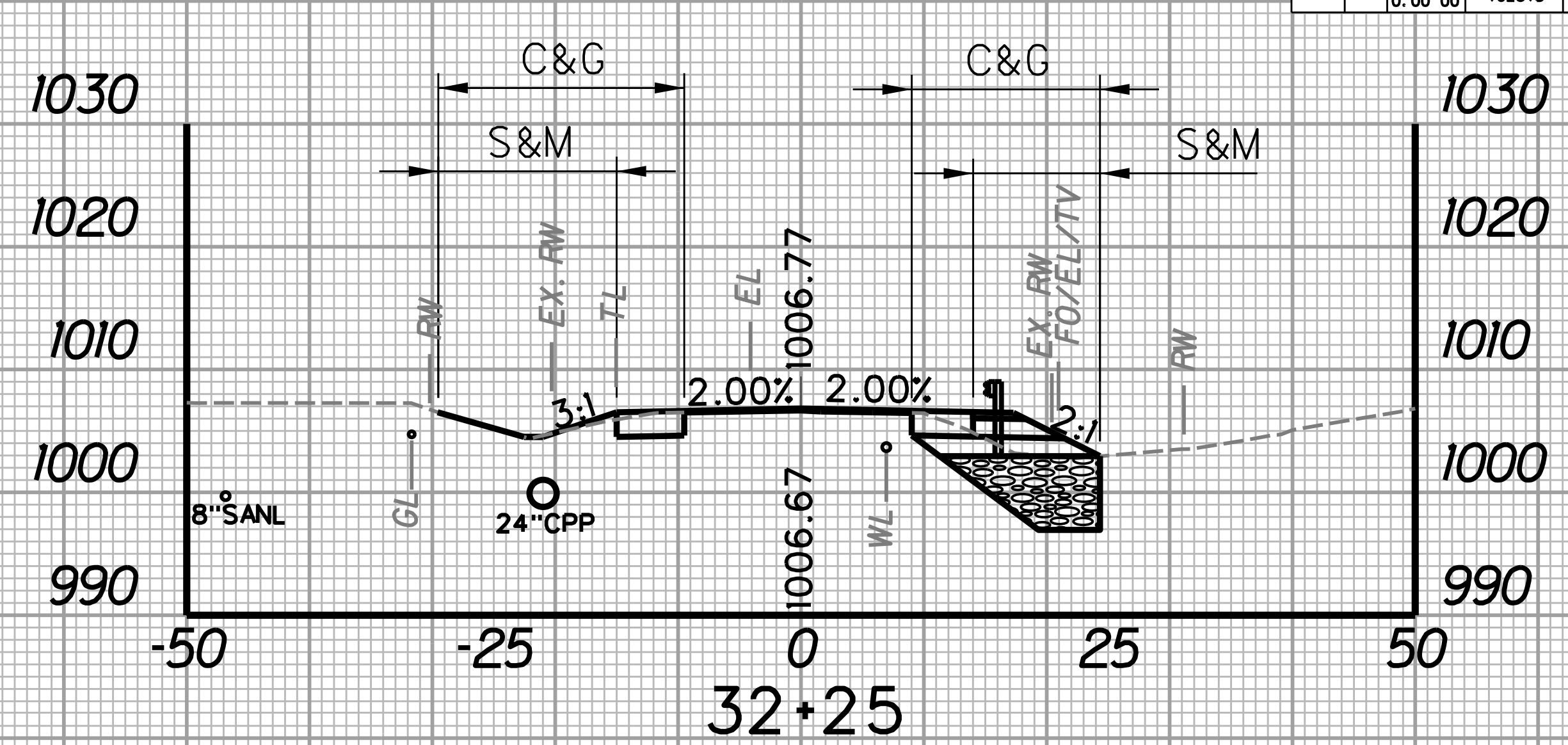
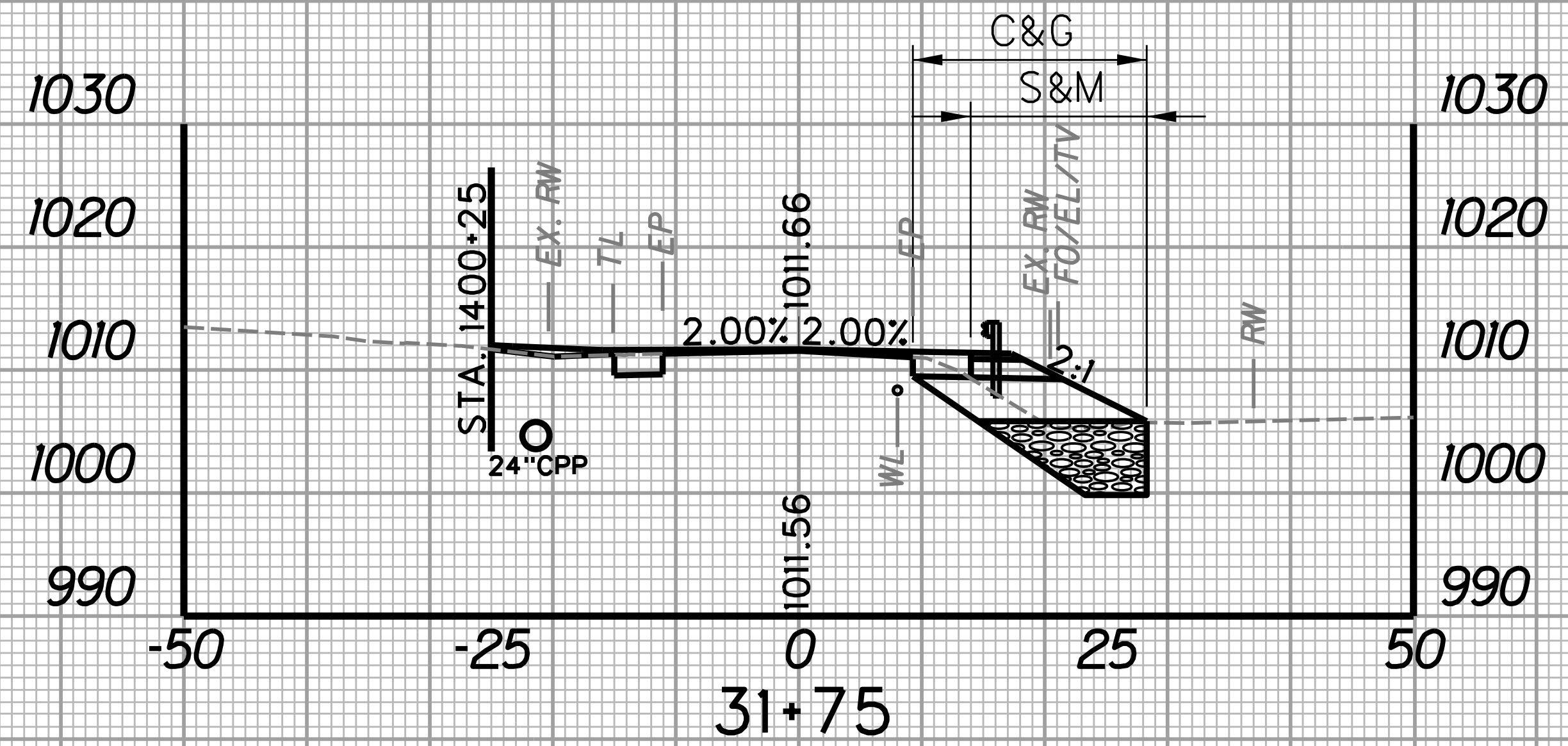
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		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
30+75	14.1	14.1	445.0	33.3	416.3	121.0	112.2	5.3	28.2	68.5	63.4
31+00	25	21.5	445.0	39.3	416.3	121.3	112.2	55.7	28.2	68.4	63.4



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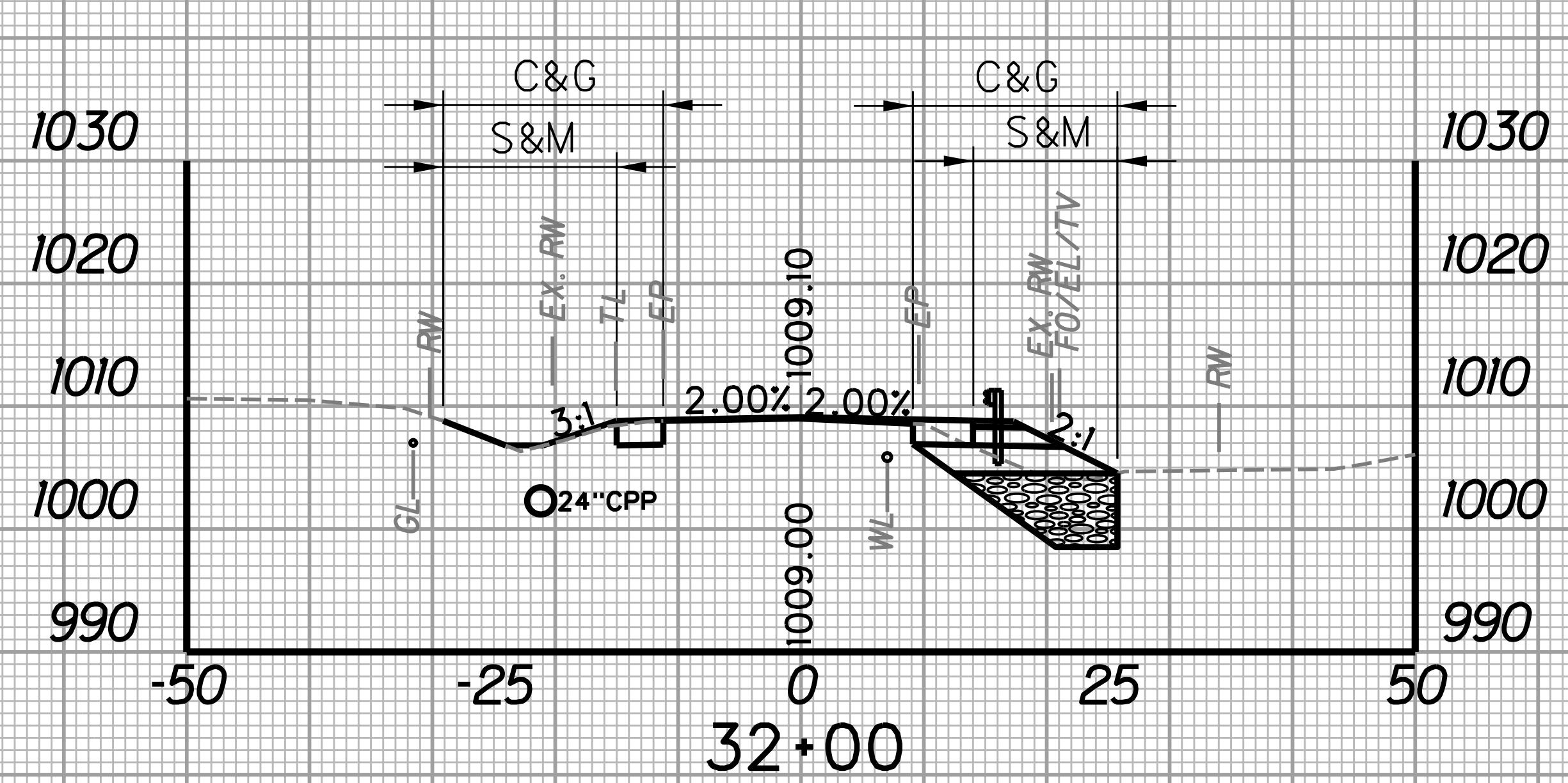
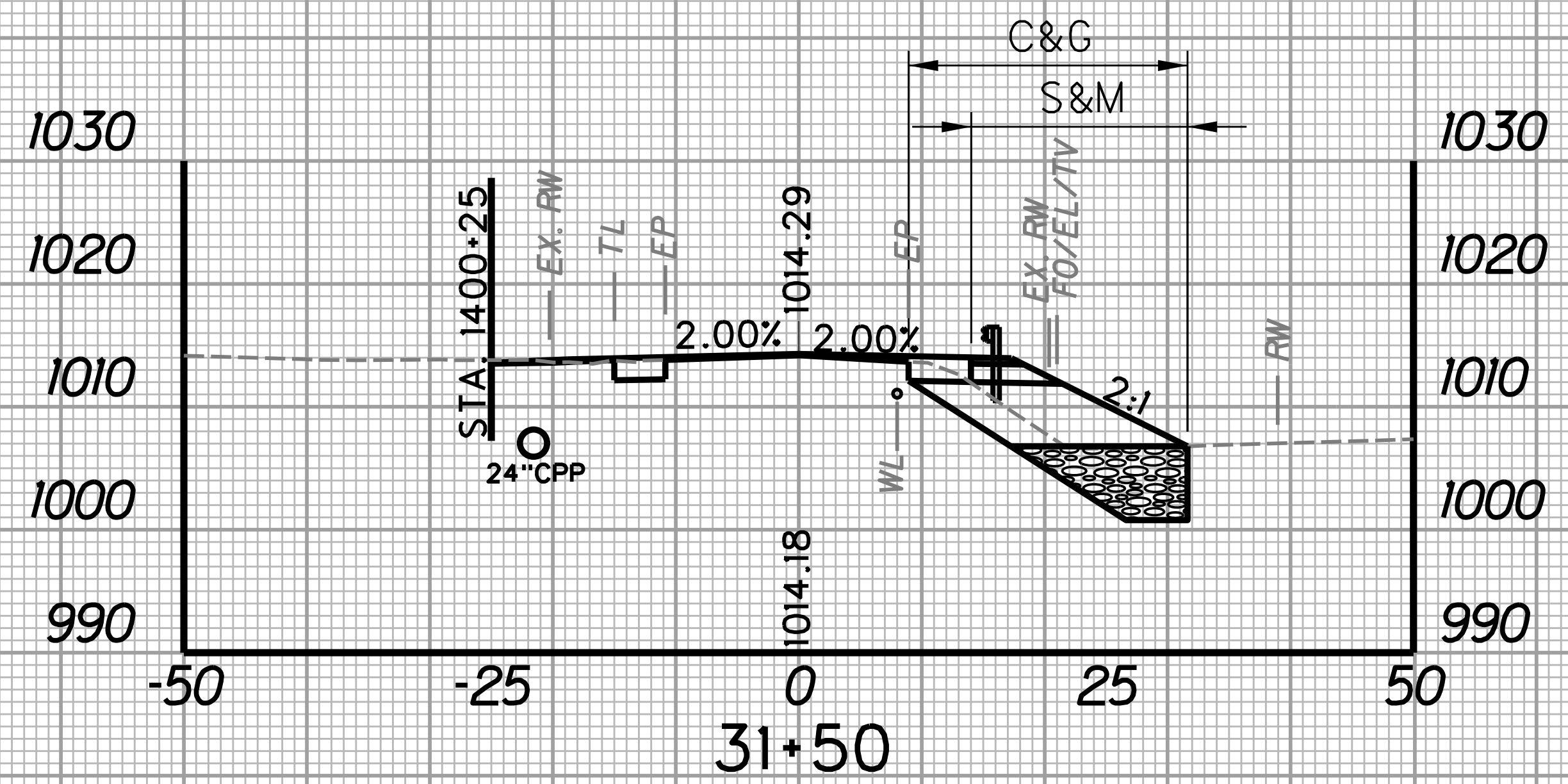
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
CROSS-SECTION SHEET

SUBMITTED 6/29/2020



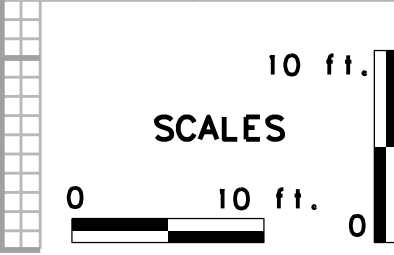
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		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF						
31+50		17.6		22.7		93.3		45.2		58.1	
31+75	25		398.8		521.3		80.6		35.2		52.9
31+75		14.3		19.0		80.9		30.8		56.1	

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF						
32+00		25.9		33.4		77.3		18.4		55.0	
32+25	25		633.8		858.8		72.6		13.1		50.5
32+25		24.8		35.3		79.6		9.8		54.1	



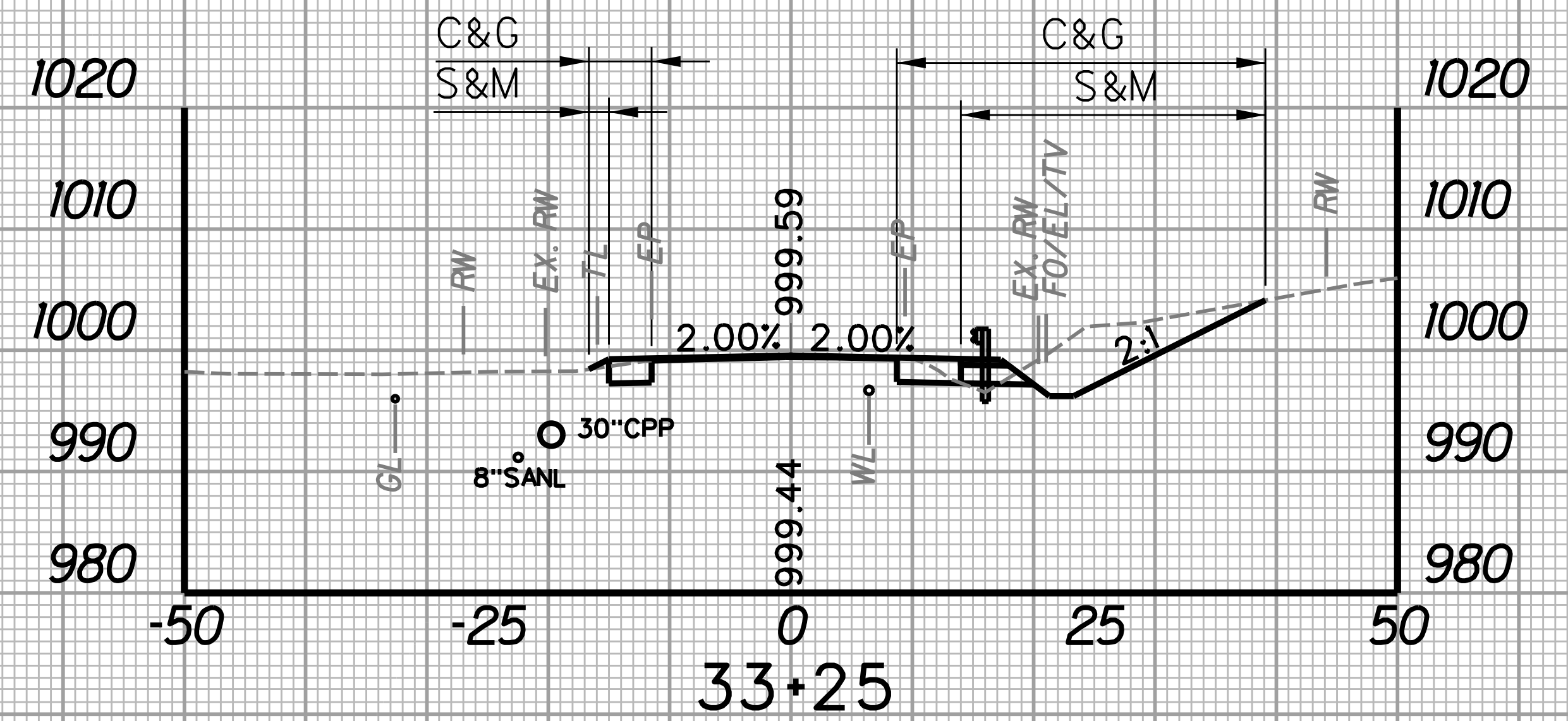
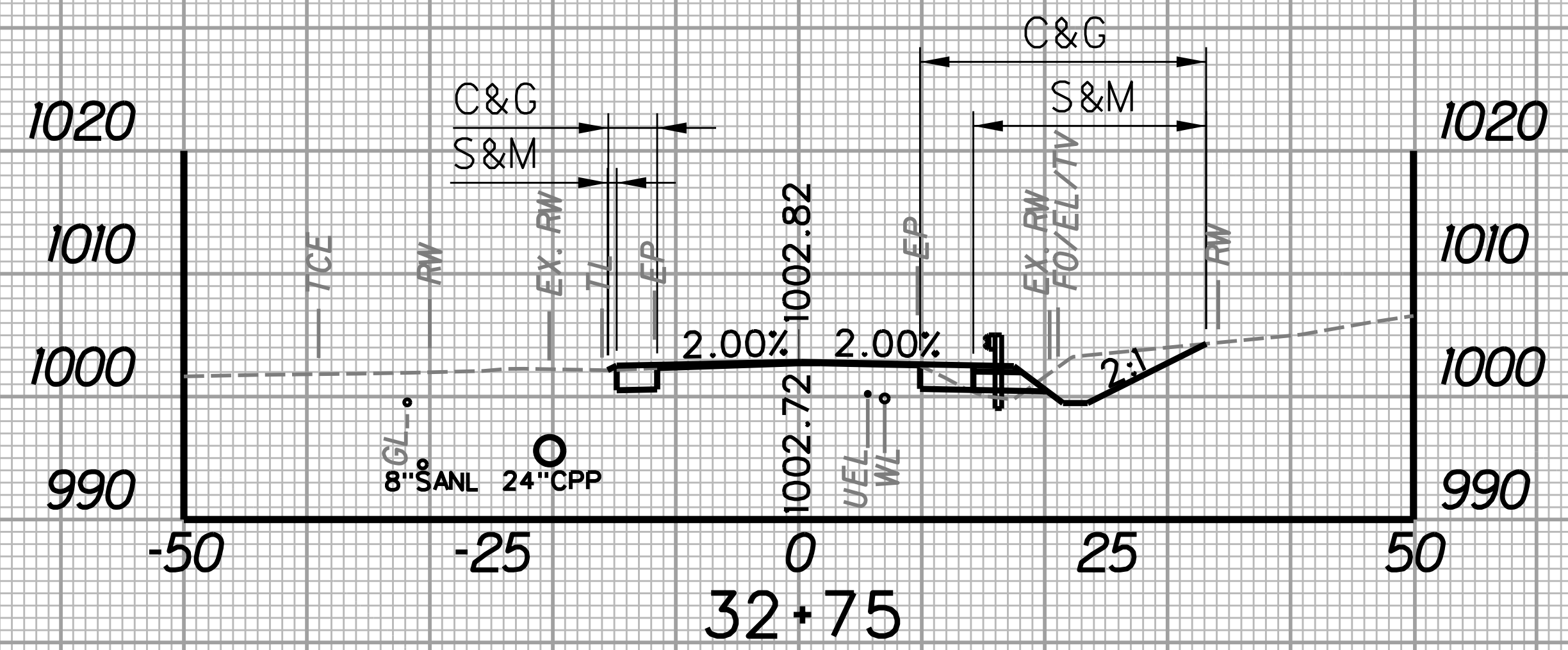
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		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF						
31+25		19.2		40.4		108.1		57.9		70.4	
31+50	25		460.0		788.8		93.2		47.7		59.5
31+50		17.6		22.7		93.3		45.2		58.1	

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF						
31+75		14.3		19.0		80.9		30.8		56.1	
31+75	25		502.5		655.0		73.2		22.8		51.4
32+00		25.9		33.4		77.3		18.4		55.0	



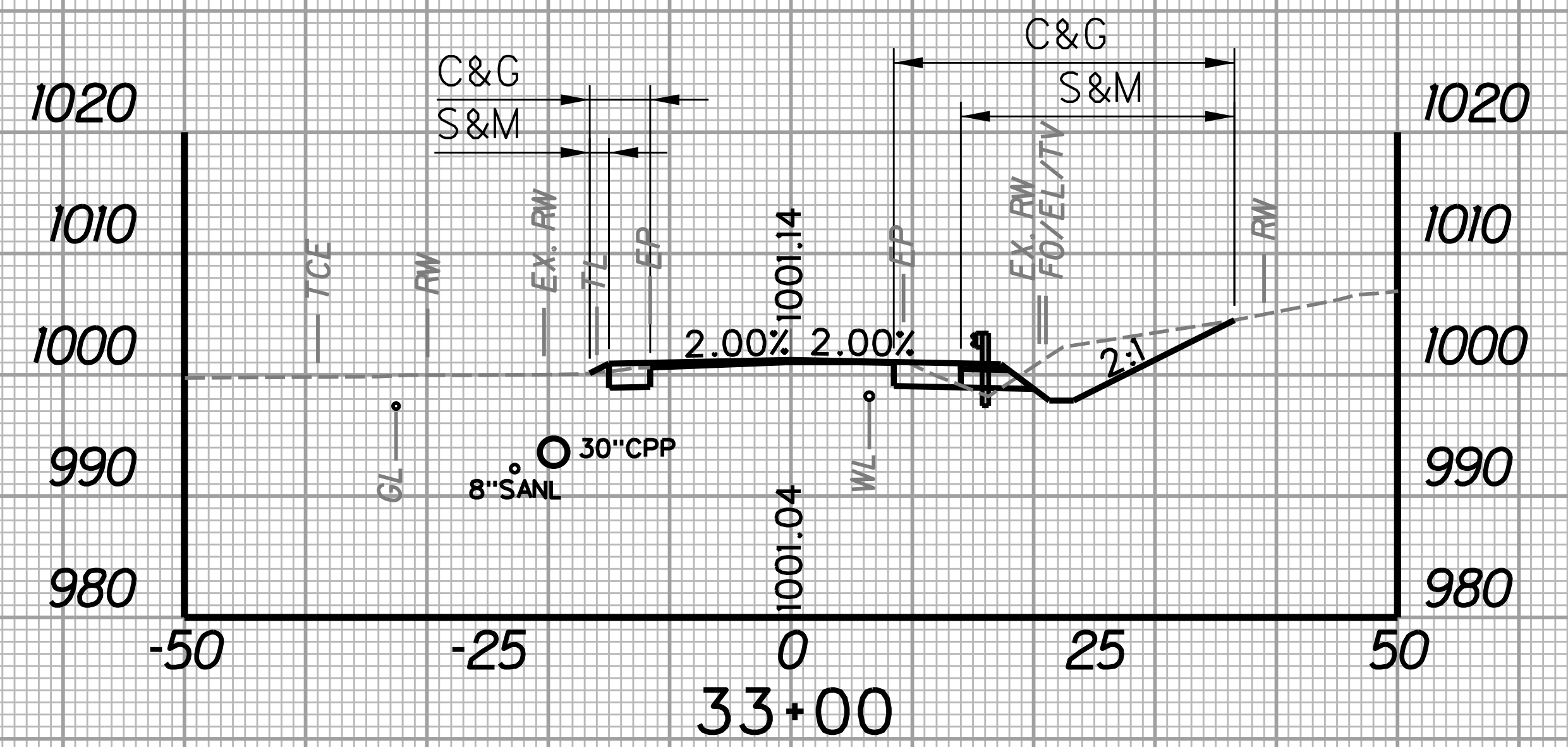
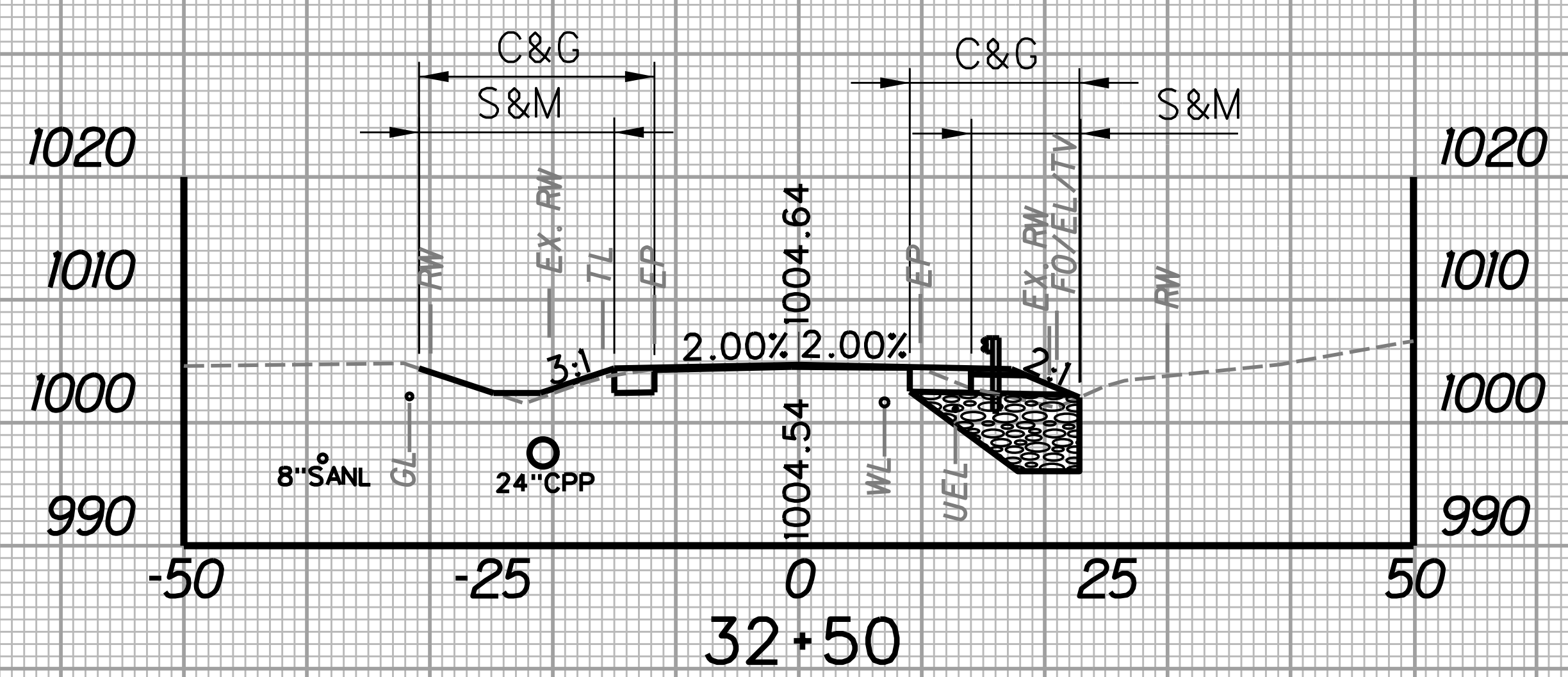
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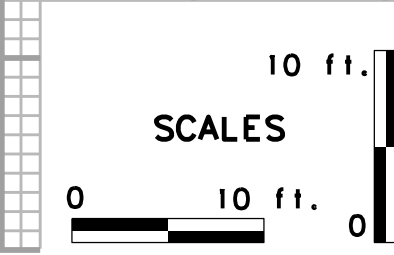
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		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
32+50	25	24.8		33.0		66.9		8.2		57.5	
32+75	25	20.1	561.3	27.3	753.8	38.9	49.0	2.2	4.8	0.0	26.6

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
33+00	25	24.1		33.1		57.2		1.0		0.0	
33+25	25	26.7	635.0	35.5	857.5	68.6	58.2	1.4	1.1	0.0	0.0



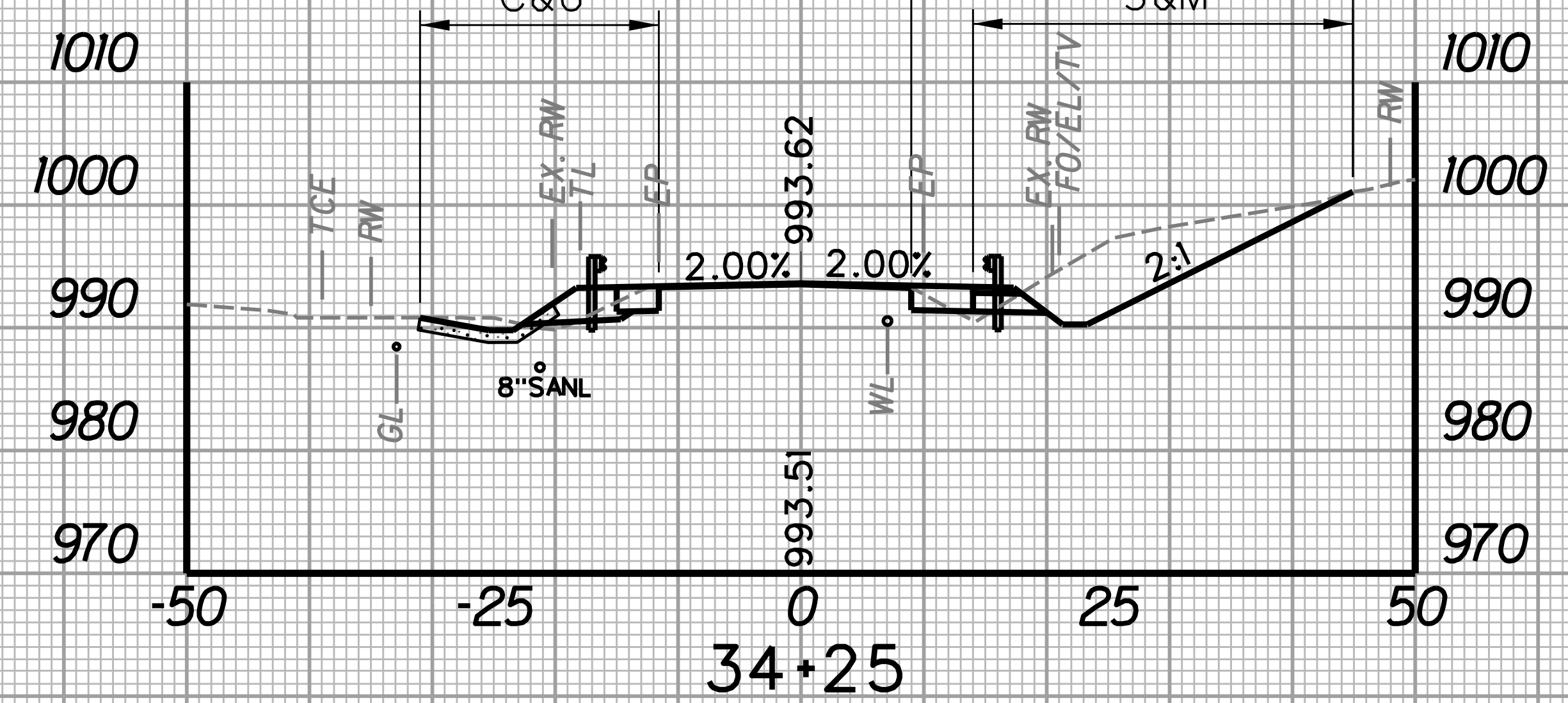
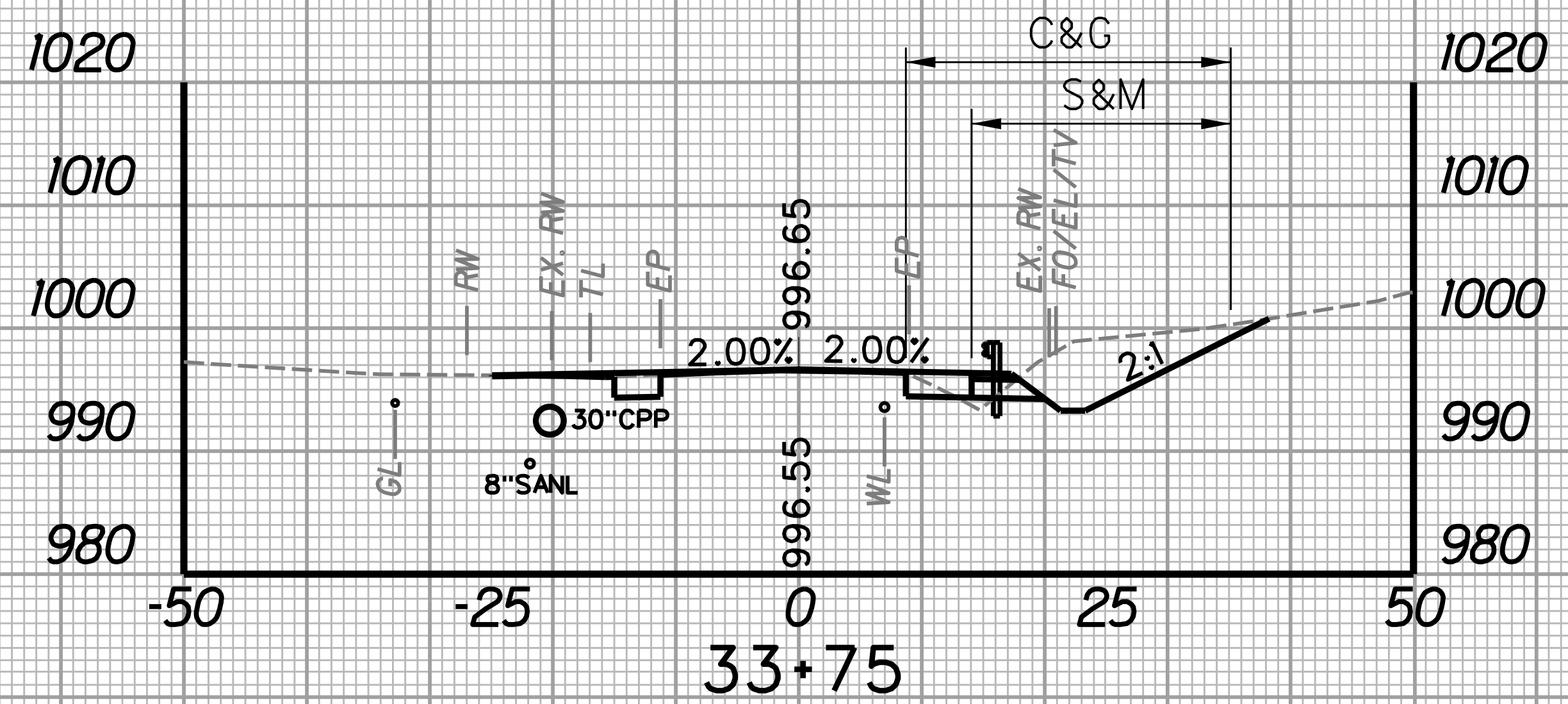
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		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
32+25	25	24.8	620.0	33.0	853.8	66.9	68.7	8.2	8.3	57.5	51.7
32+50	25	24.8		33.0		66.9		8.2		57.5	

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
32+75	25	20.1	552.5	27.3	755.0	38.9	36.1	2.2	0.0	0.0	0.0
33+00	25	24.1		33.1		57.2		1.0		0.0	



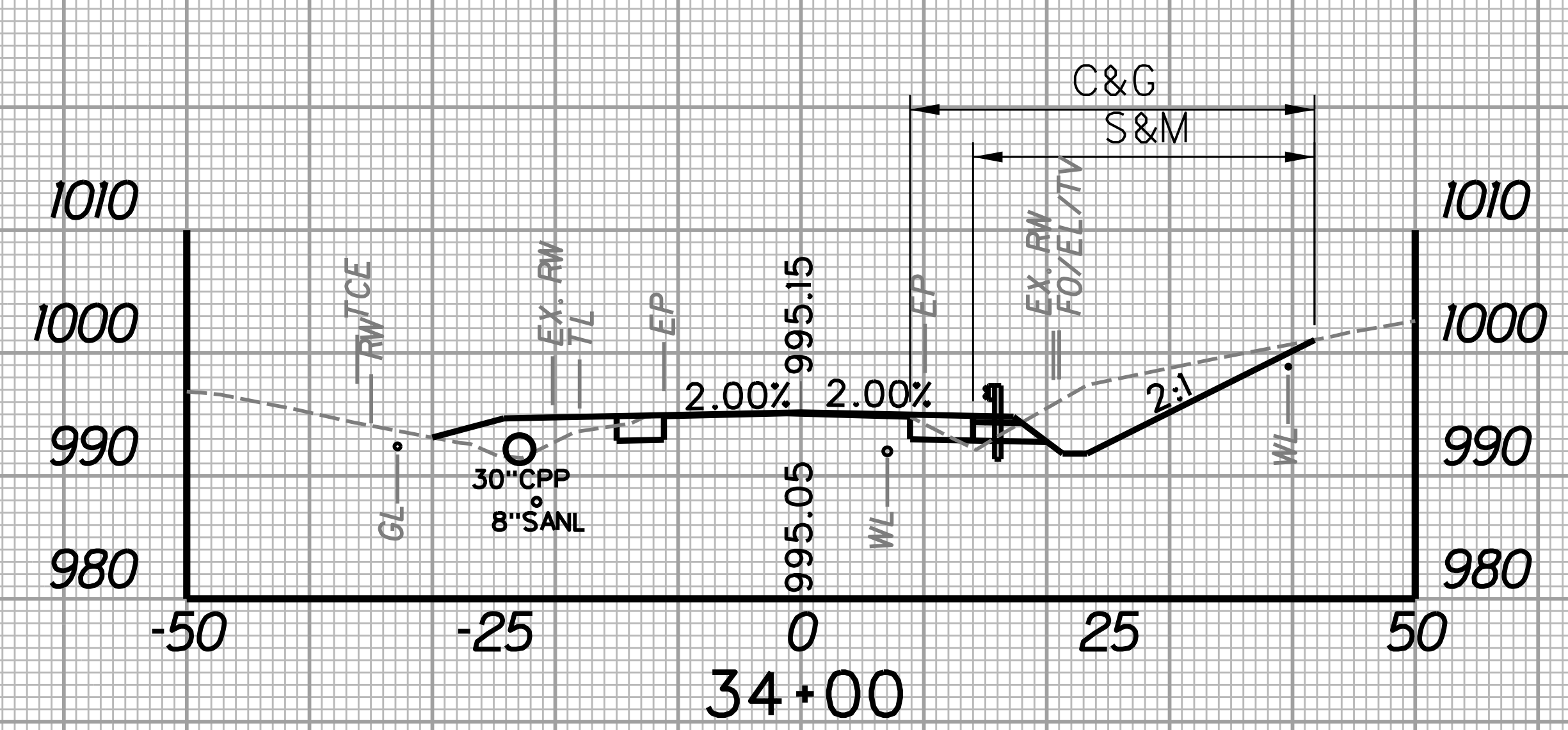
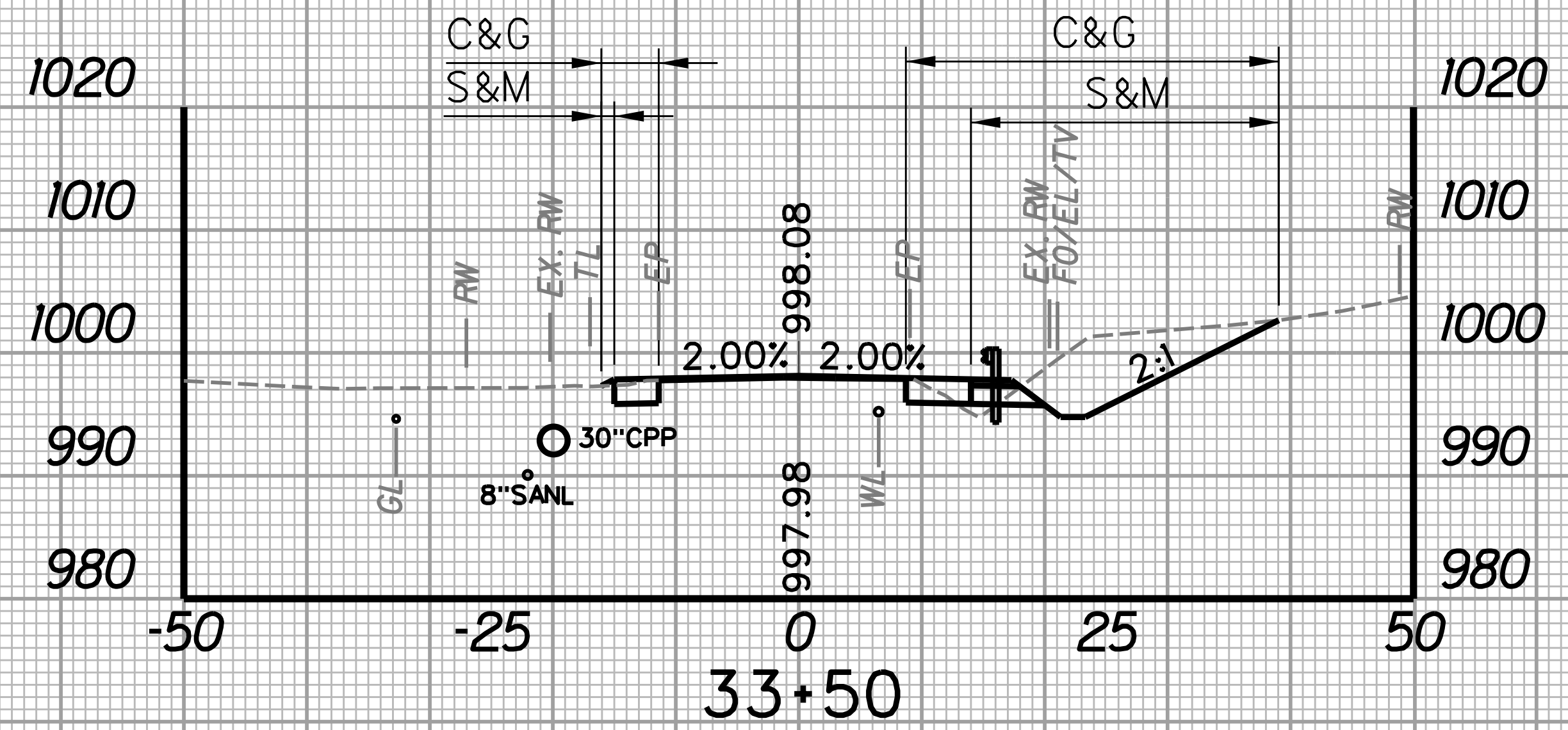
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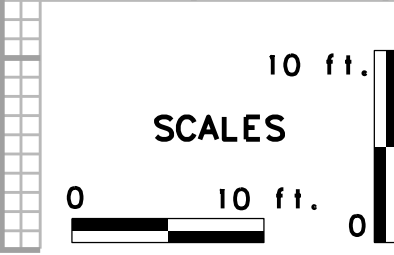
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		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
33+50	25	26.2	591.3	34.6	762.5	84.3	74.9	2.0	1.6	0.0	0.0
33+75	25	21.1	591.3	26.4	762.5	76.9	74.9	1.5	1.6	0.0	0.0

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
34+00	25	25.1	622.5	30.3	995.0	83.2	89.4	26.9	15.3	0.0	0.0
34+25	25	24.7	622.5	49.3	995.0	109.8	89.4	6.2	15.3	0.0	0.0



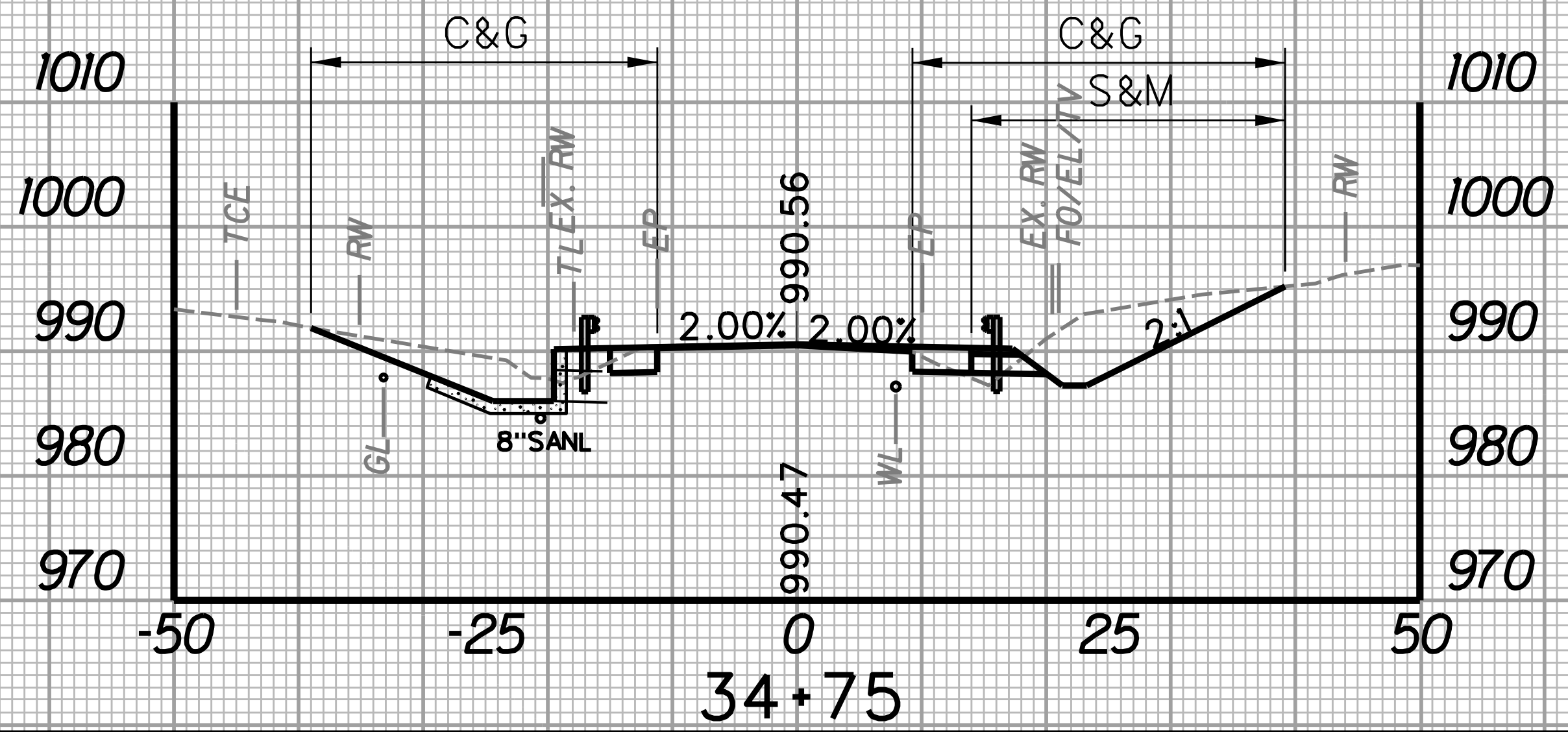
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		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
33+25	25	26.7	661.3	35.5	876.3	68.6	70.8	1.4	1.6	0.0	0.0
33+50	25	26.2	661.3	34.6	876.3	84.3	70.8	2.0	1.6	0.0	0.0

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
33+75	25	21.1	577.5	26.4	708.8	76.9	74.1	1.5	13.1	0.0	0.0
34+00	25	25.1	577.5	30.3	708.8	83.2	74.1	26.9	13.1	0.0	0.0

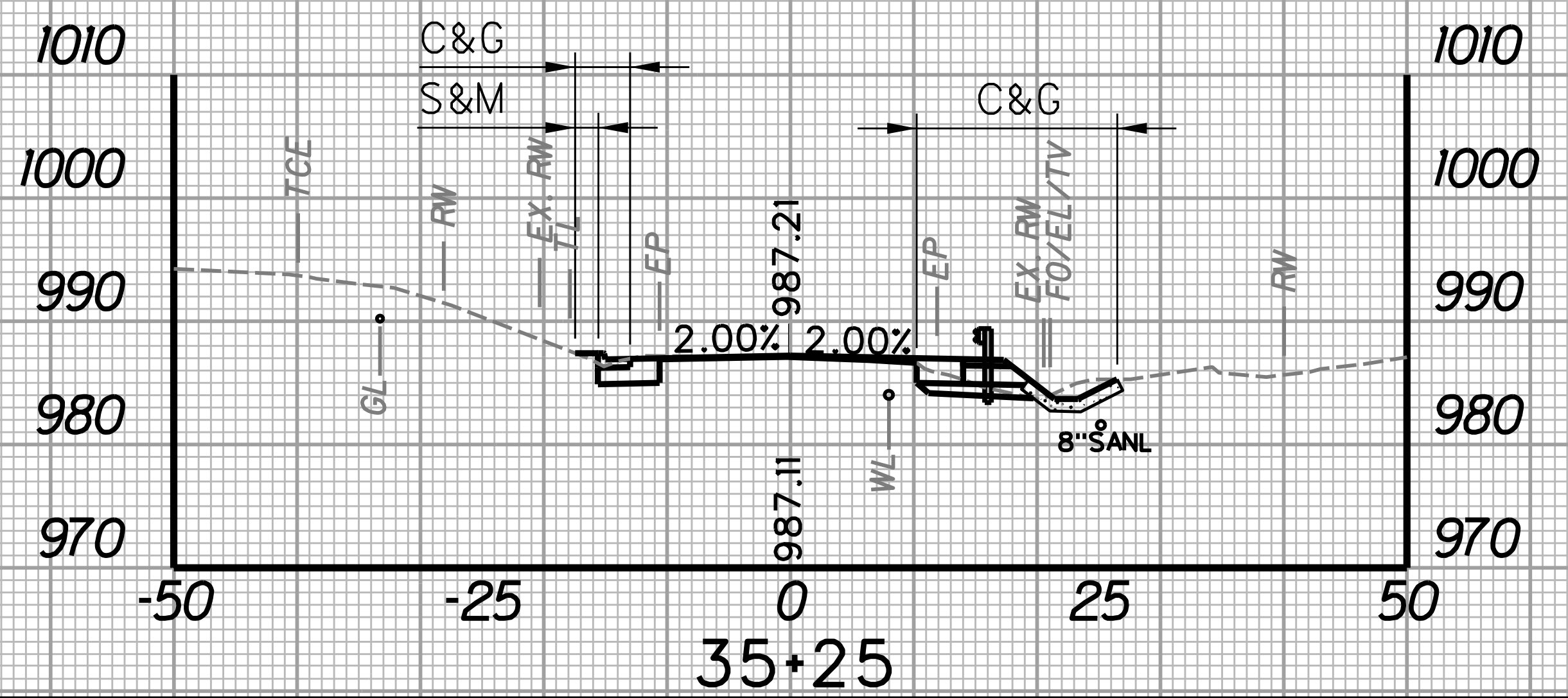


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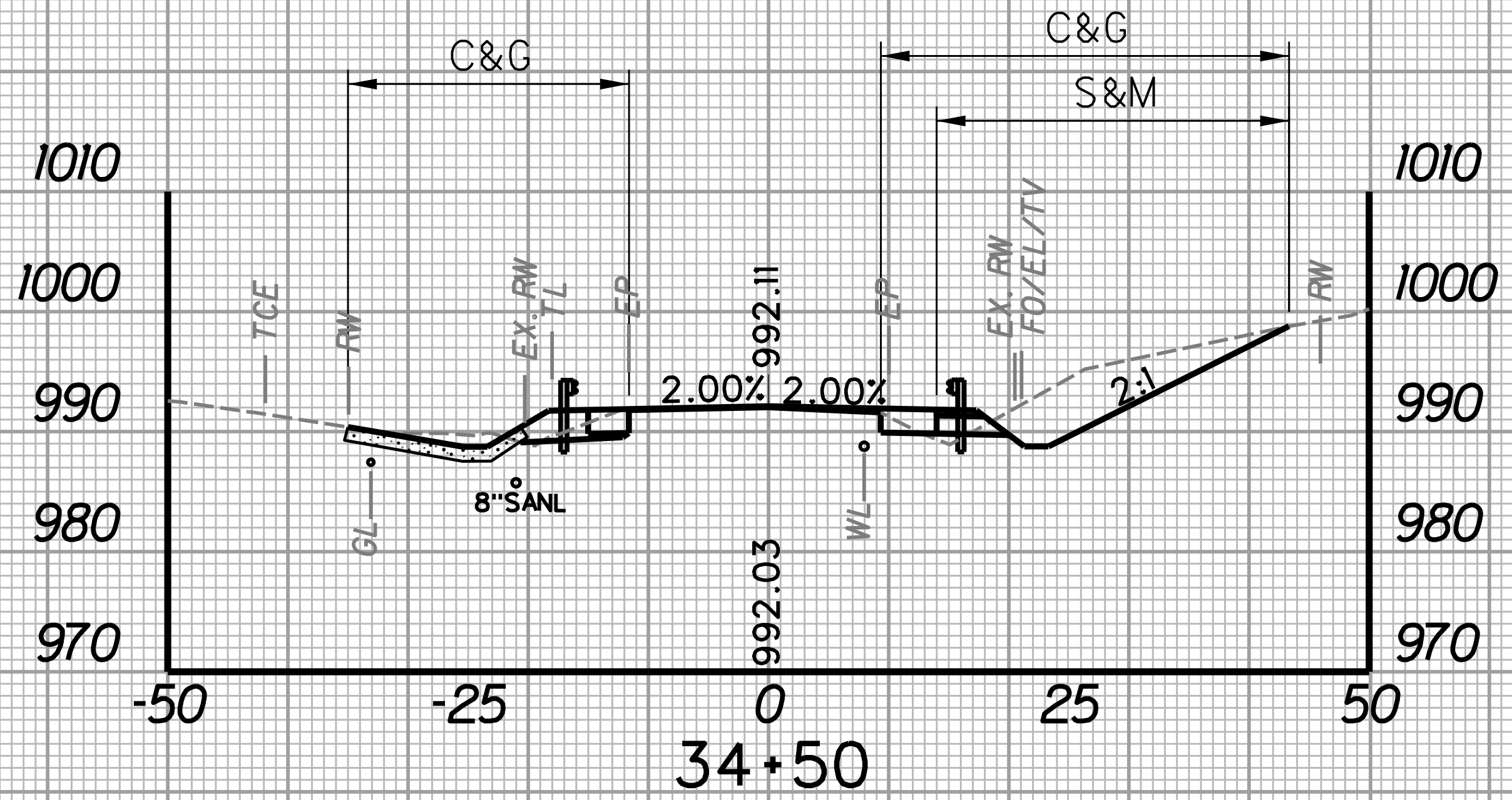
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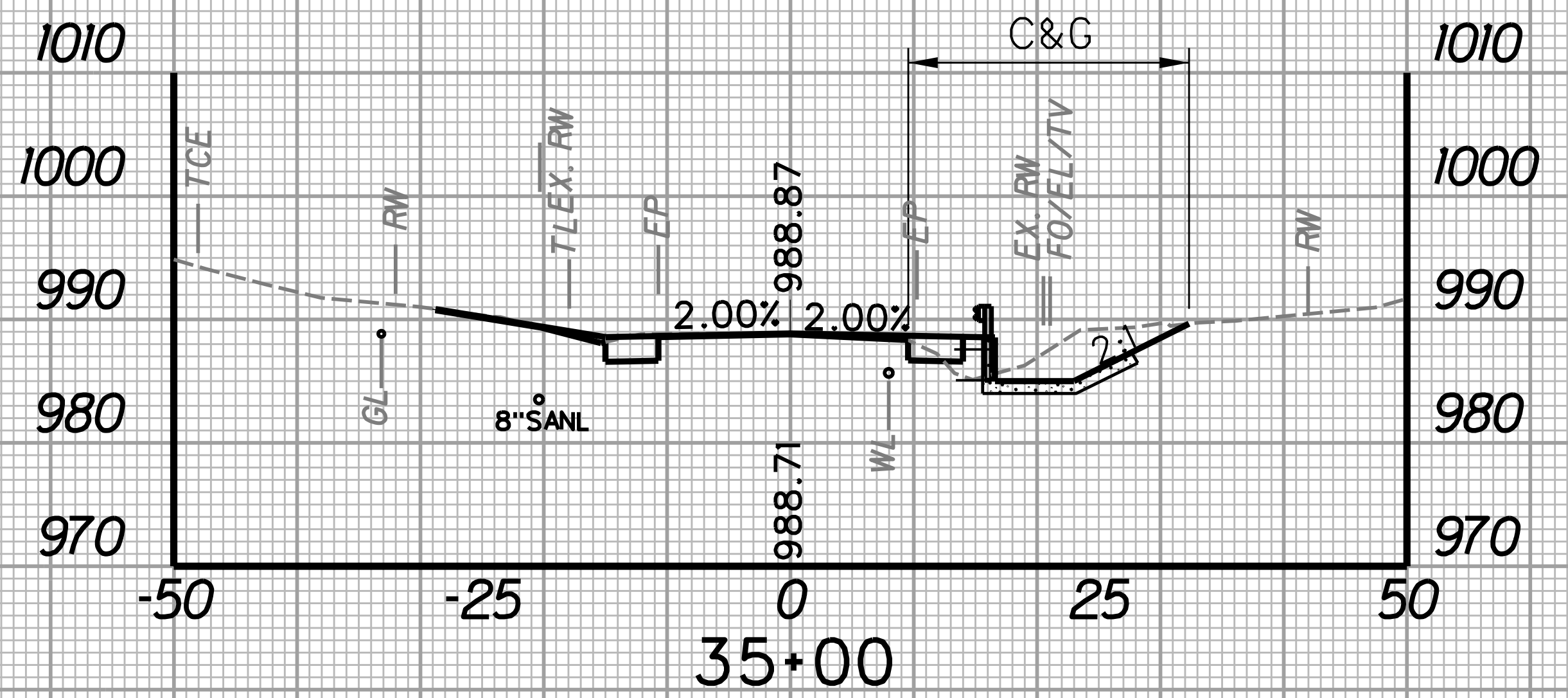
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
34+50	25	25.8		53.9		102.4		1.8		0.0	
34+75	25	25.1	636.3	57.7	1395.0	127.9	106.6	1.8	1.7	0.0	0.0



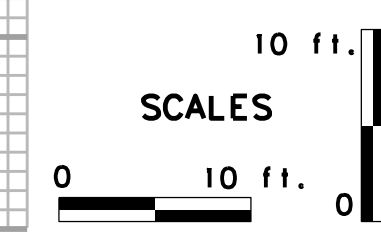
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		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
35+00	25	0		22.8		55.6		0.0		0.0	
35+25	25	1.9	23.8	20.8	545.0	19.9	35.0	2.7	1.3	0.0	0.0



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
34+25	25	24.7		49.3		109.8		6.2		0.0	
34+50	25	29.3	675.0	57.2	1331.3	102.4	98.2	1.8	3.7	0.0	0.0

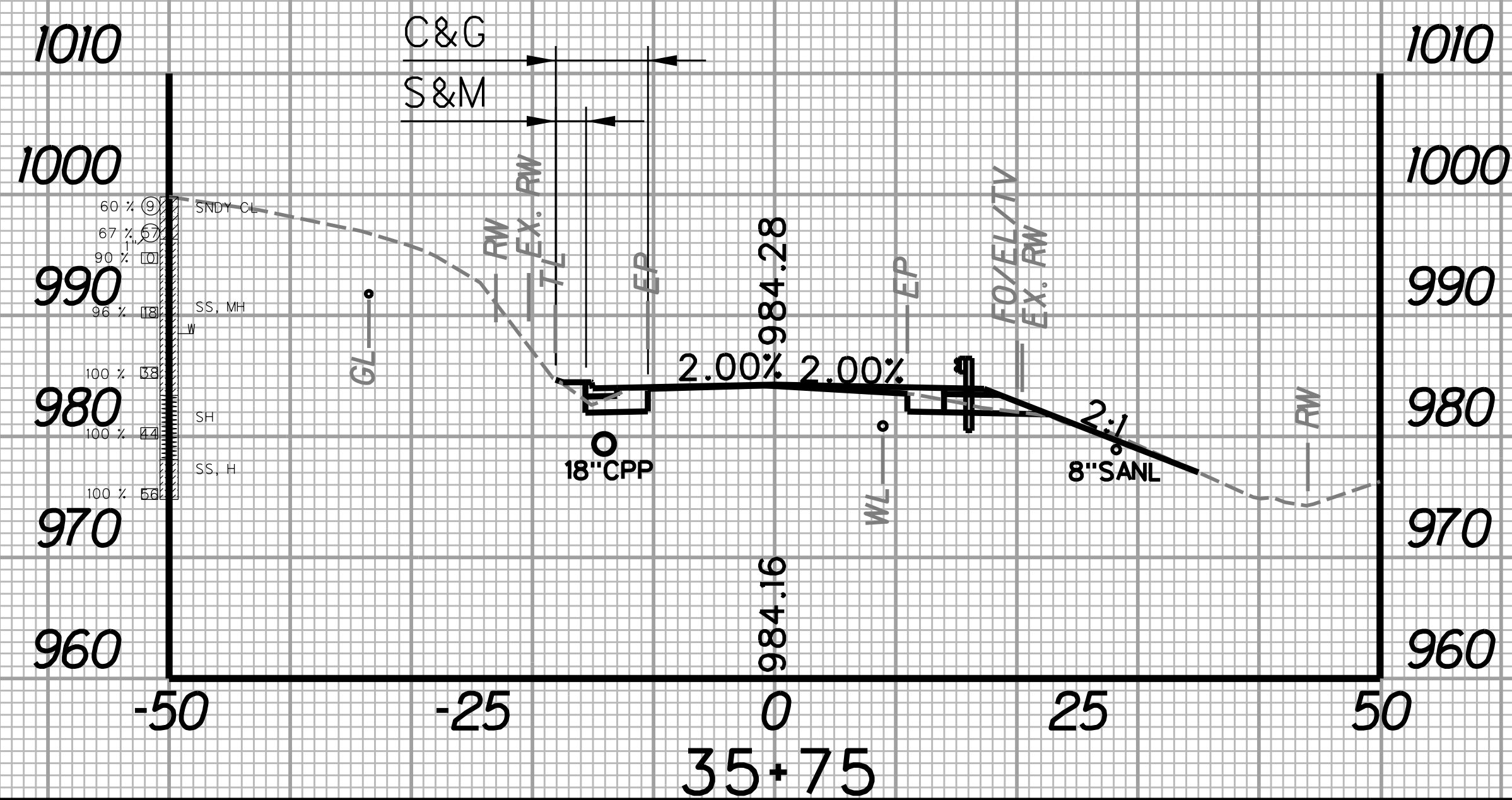


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
34+75	25	25.1		57.7		127.9		1.8		0.0	
35+00	25	0	313.8	22.8	1006.3	55.6	36.1	0.0	0.0	0.0	0.0



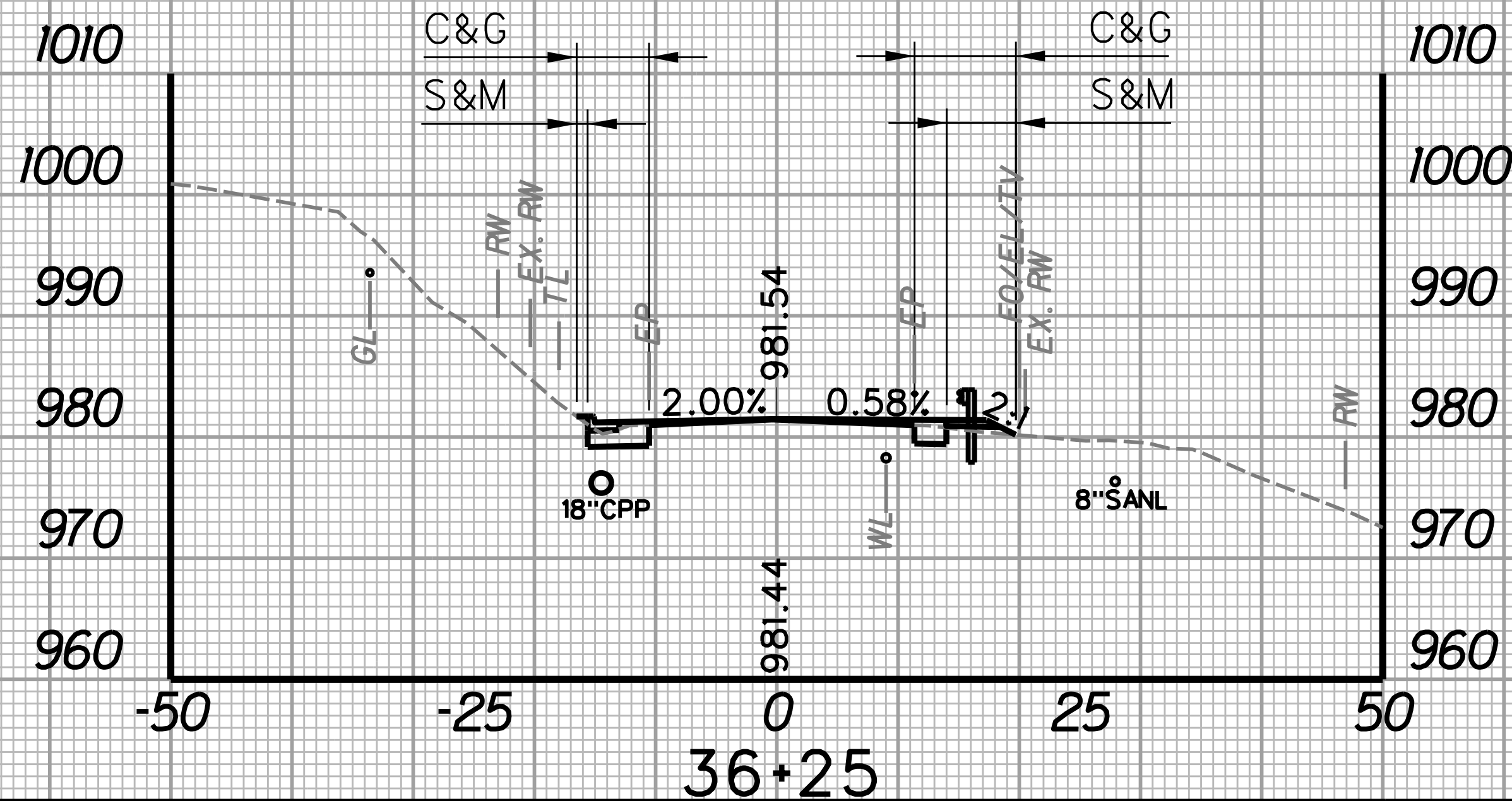
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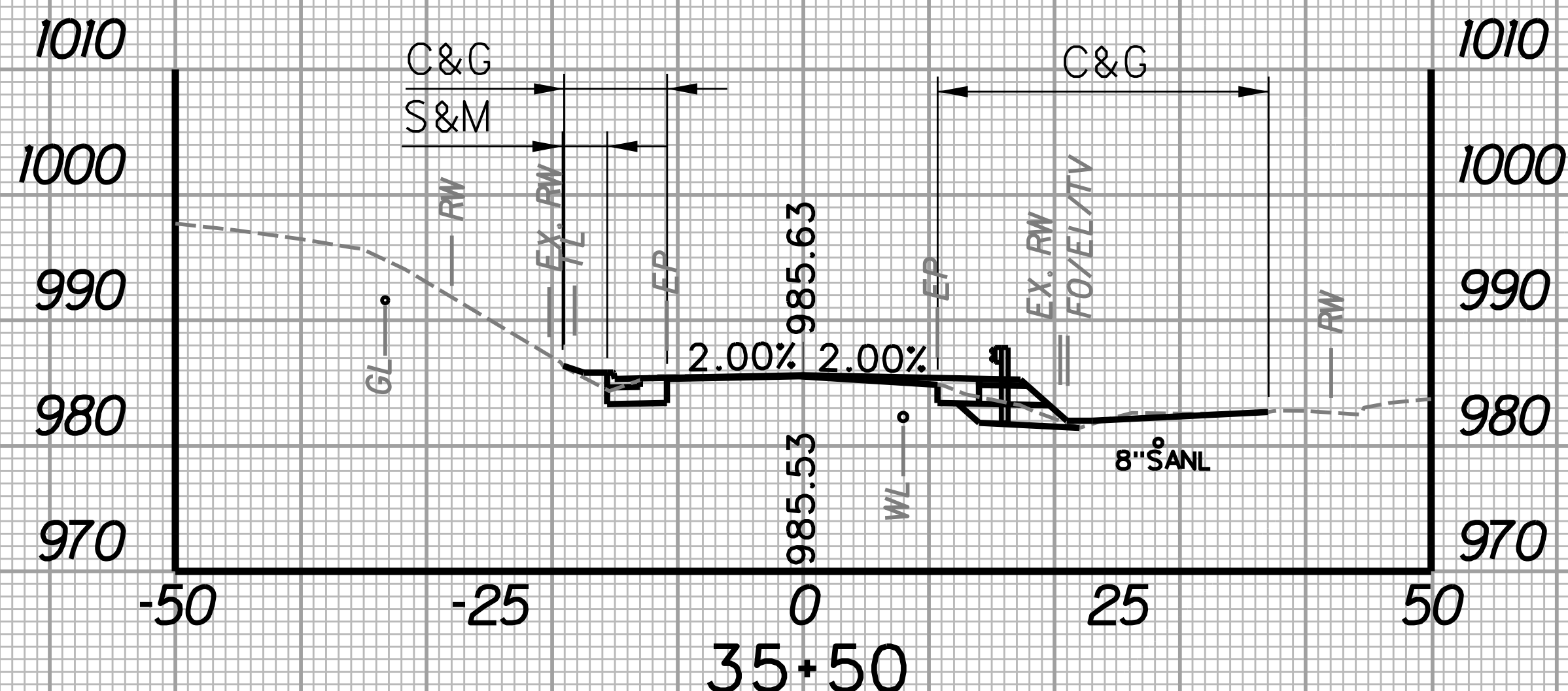
35+75

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
35+50	25	3.6	76.3	34.5	526.3	15.1	14.3	4.8	3.1	0.0	0.0
35+75		2.5		7.6		15.8		1.8		0.0	



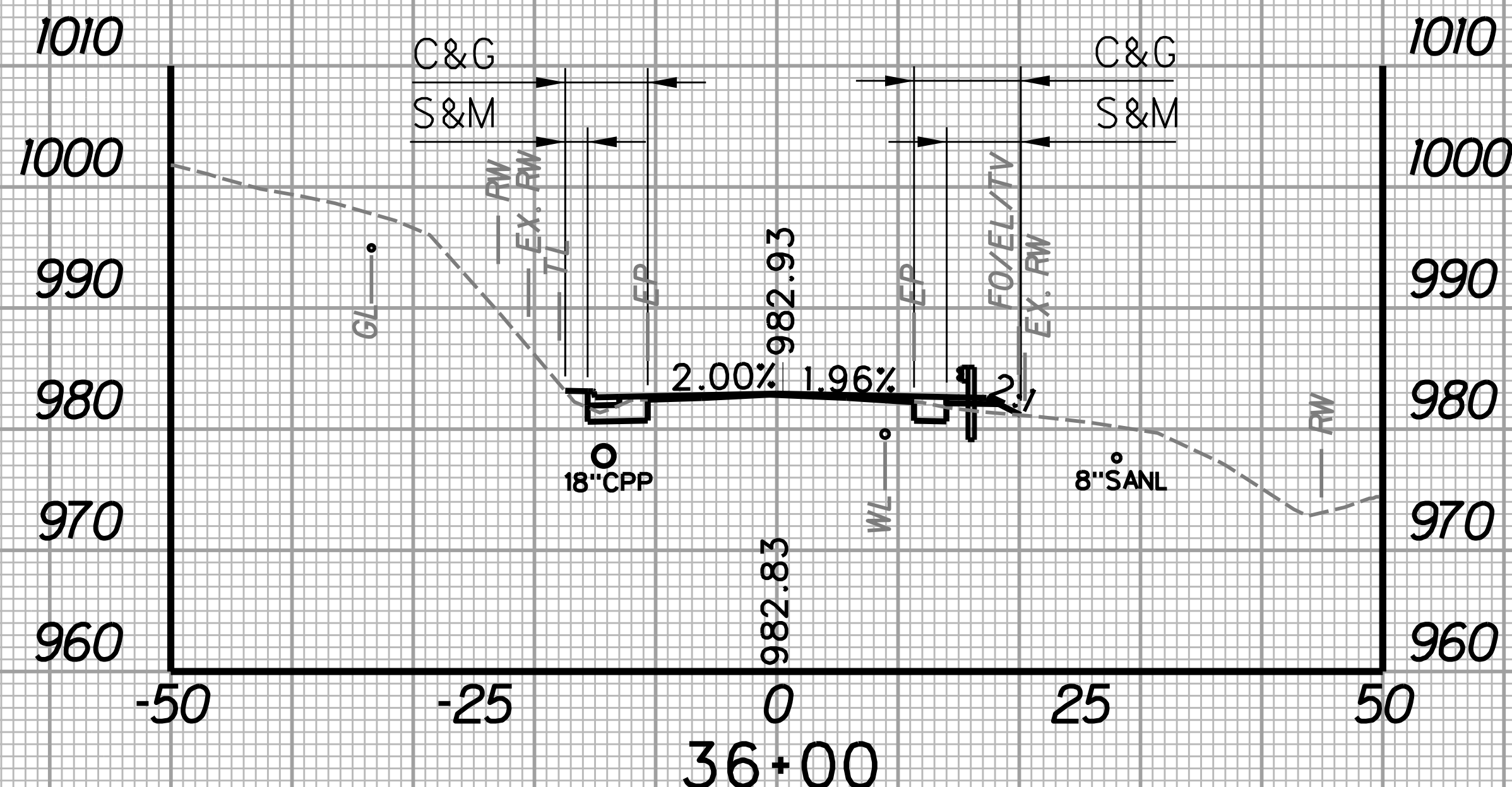
36+25

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
36+00	25	7.9	182.5	15.7	400.0	10.1	10.0	1.6	0.9	0.0	0.0
36+25		6.7		16.3		11.5		0.3		0.0	



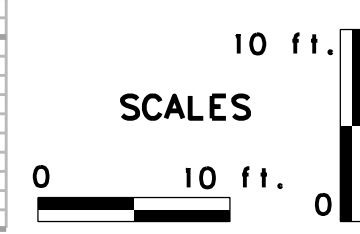
35+50

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
35+25	25	1.9	68.8	20.8	691.3	19.9	16.2	2.7	3.5	0.0	0.0
35+50		3.6		34.5		15.1		4.8		0.0	



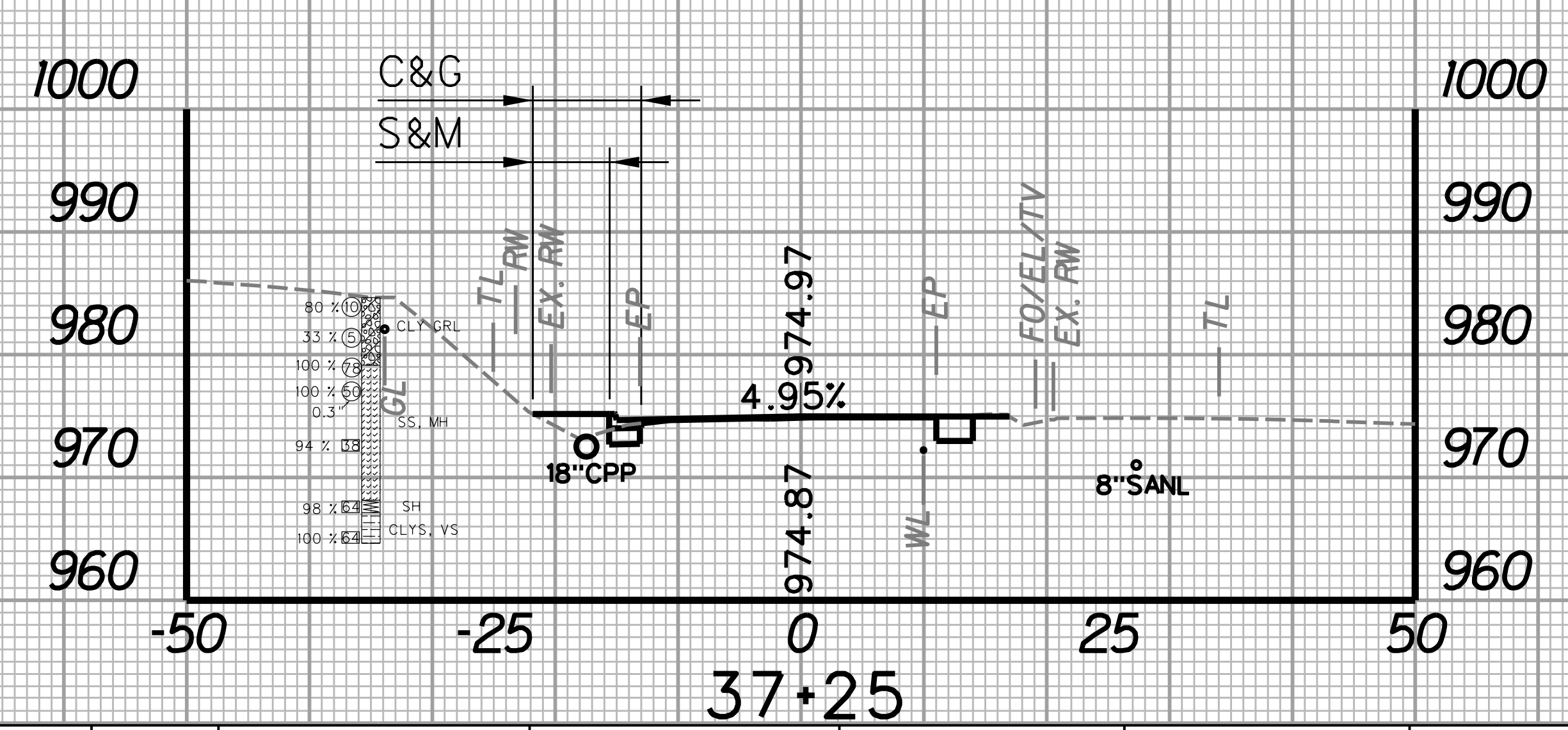
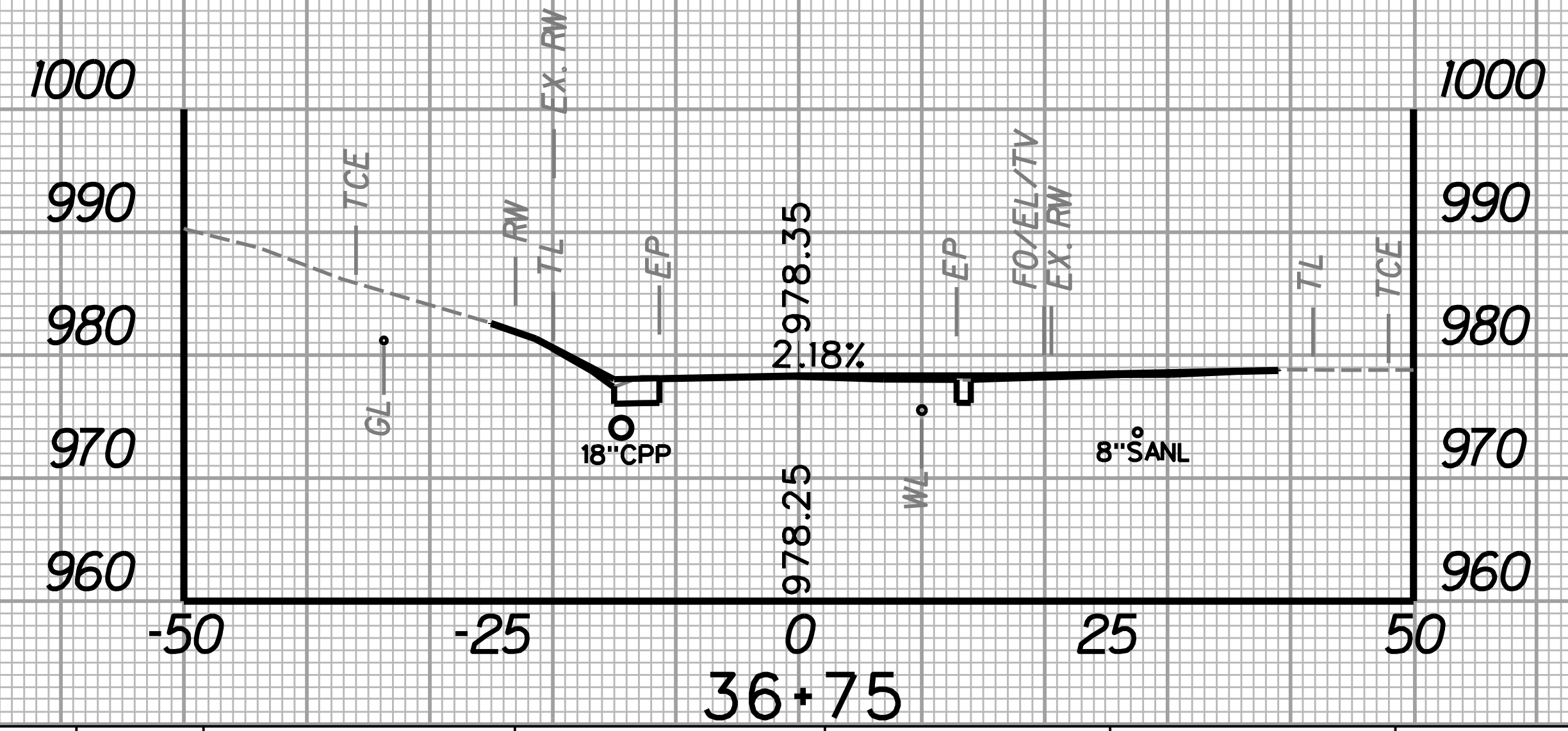
36+00

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
35+75	25	2.5	130.0	7.6	291.3	15.8	12.0	1.8	1.6	0.0	0.0
36+00		7.9		15.7		10.1		1.6		0.0	



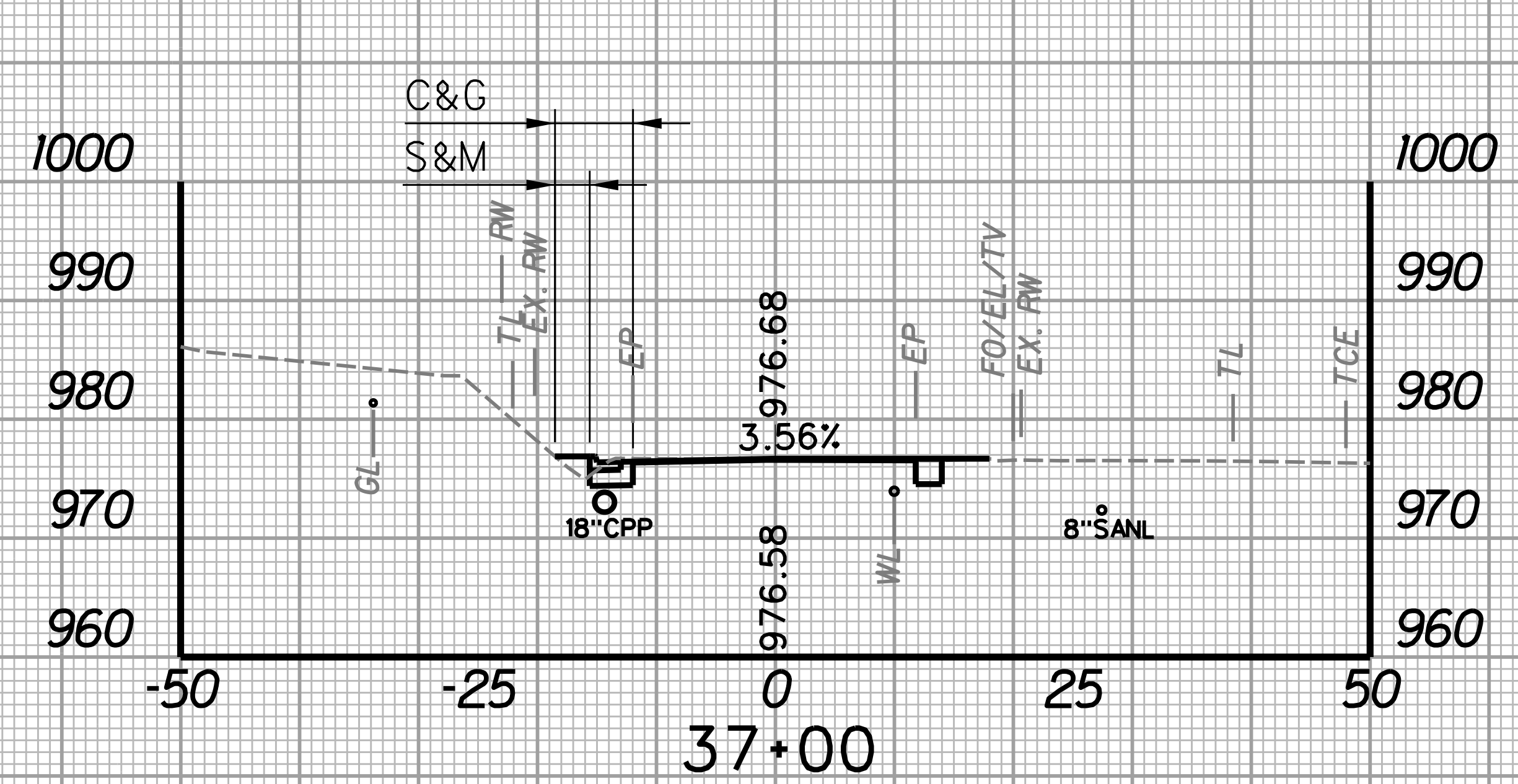
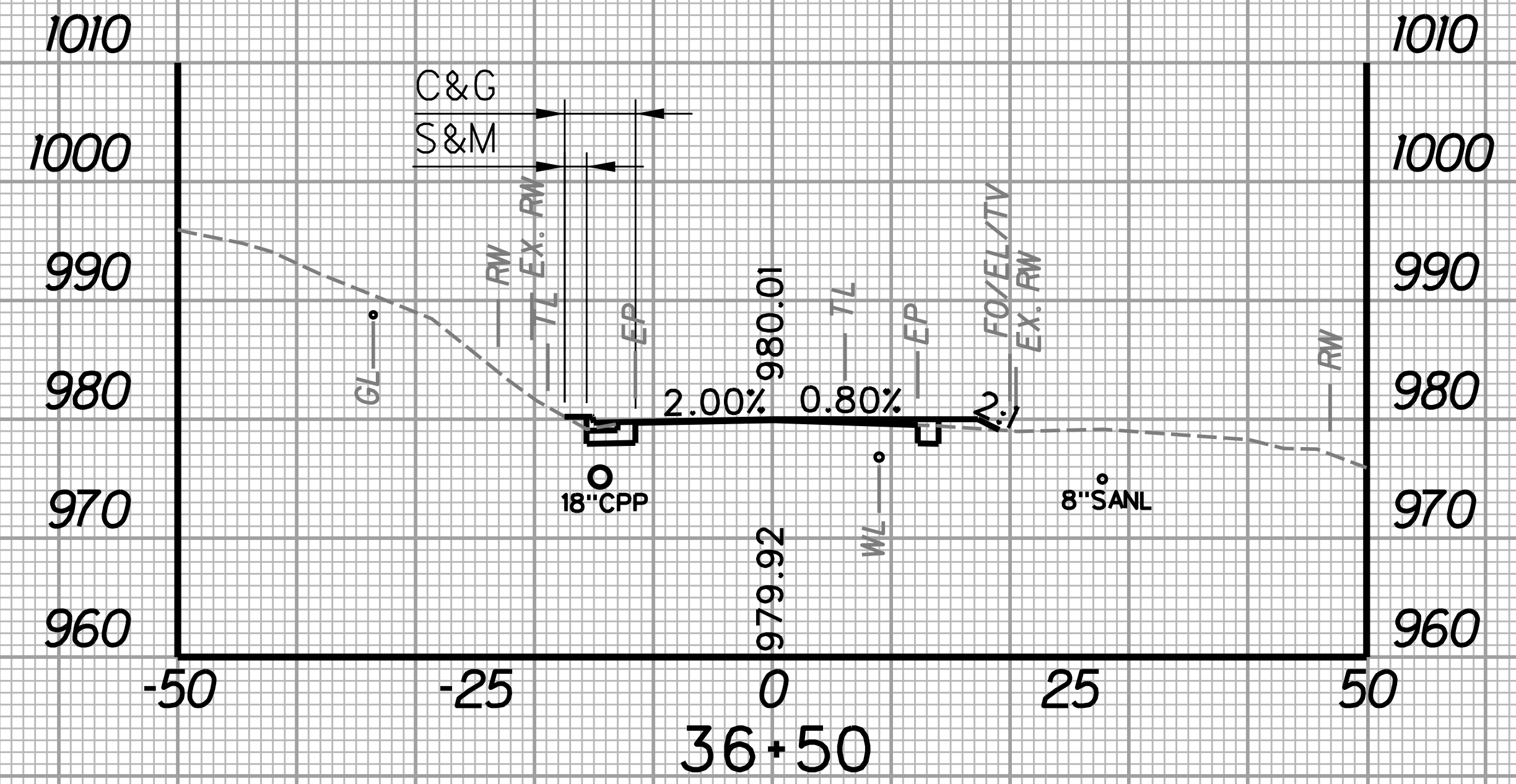
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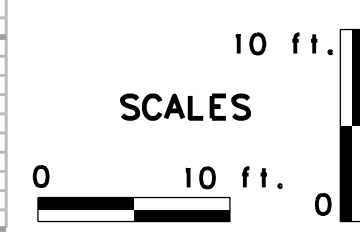
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
36+50		1.8		6.0		9.1	8.4	1.0		0.0	0.0
36+75	25	0.0	22.5	0.0	75.0	9.1	8.4	0.0	0.5	0.0	0.0

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
37+00		2.9		6.6		12.2	10.2	3.2		0.0	0.0
37+25	25	6.3	115.0	8.8	192.5	9.9	10.2	7.6	5.0	0.0	0.0



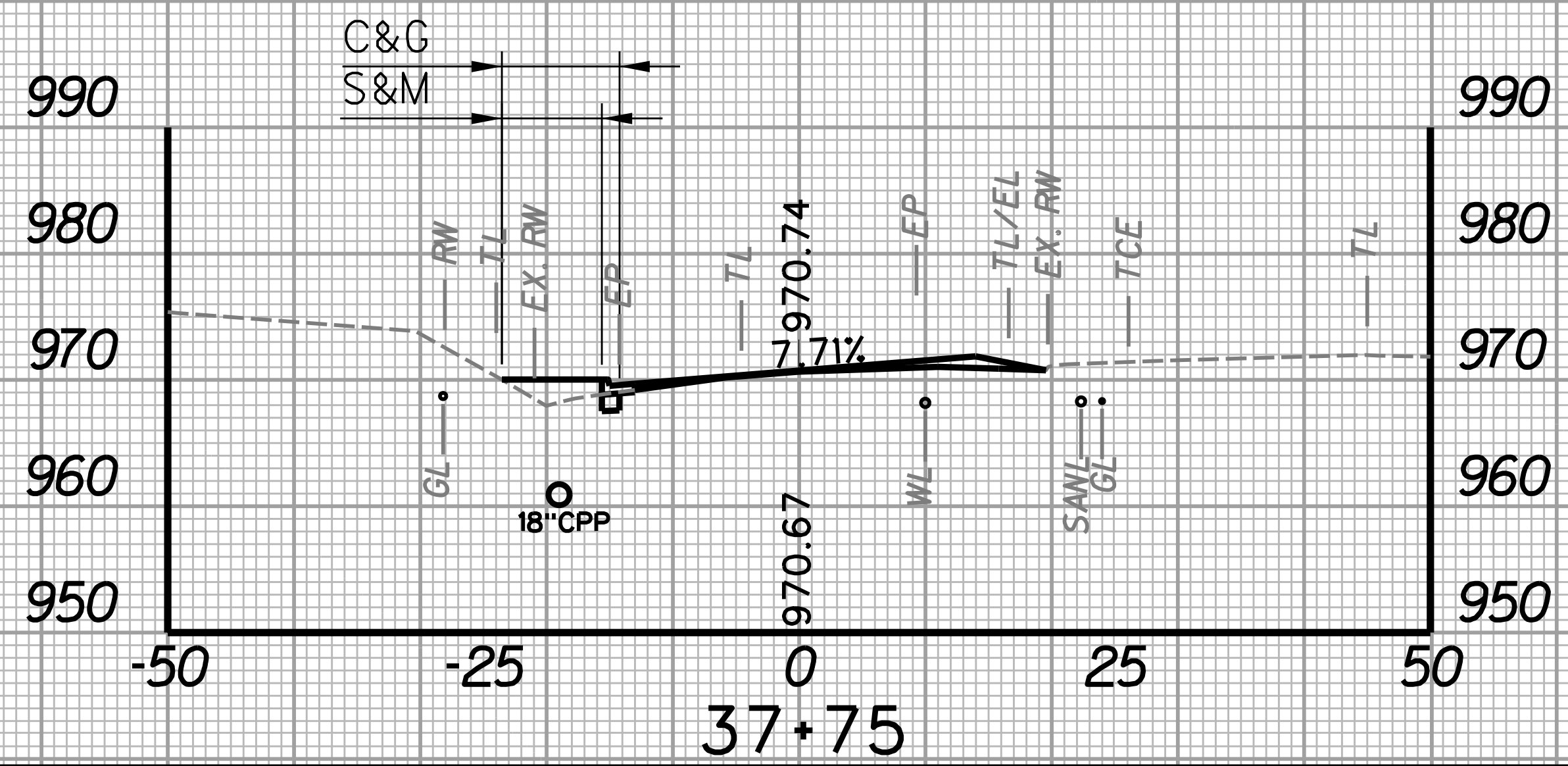
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
36+25		6.7		16.3		11.5	9.5	0.3	0.6	0.0	0.0
36+50	25	1.8	106.3	6.0	278.8	9.1	9.5	1.0	0.6	0.0	0.0

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
36+75		0.0		0.0		9.1	9.9	0.0	0.0	0.0	0.0
37+00	25	2.9	36.3	6.6	82.5	12.2	9.9	3.2	0.0	0.0	0.0

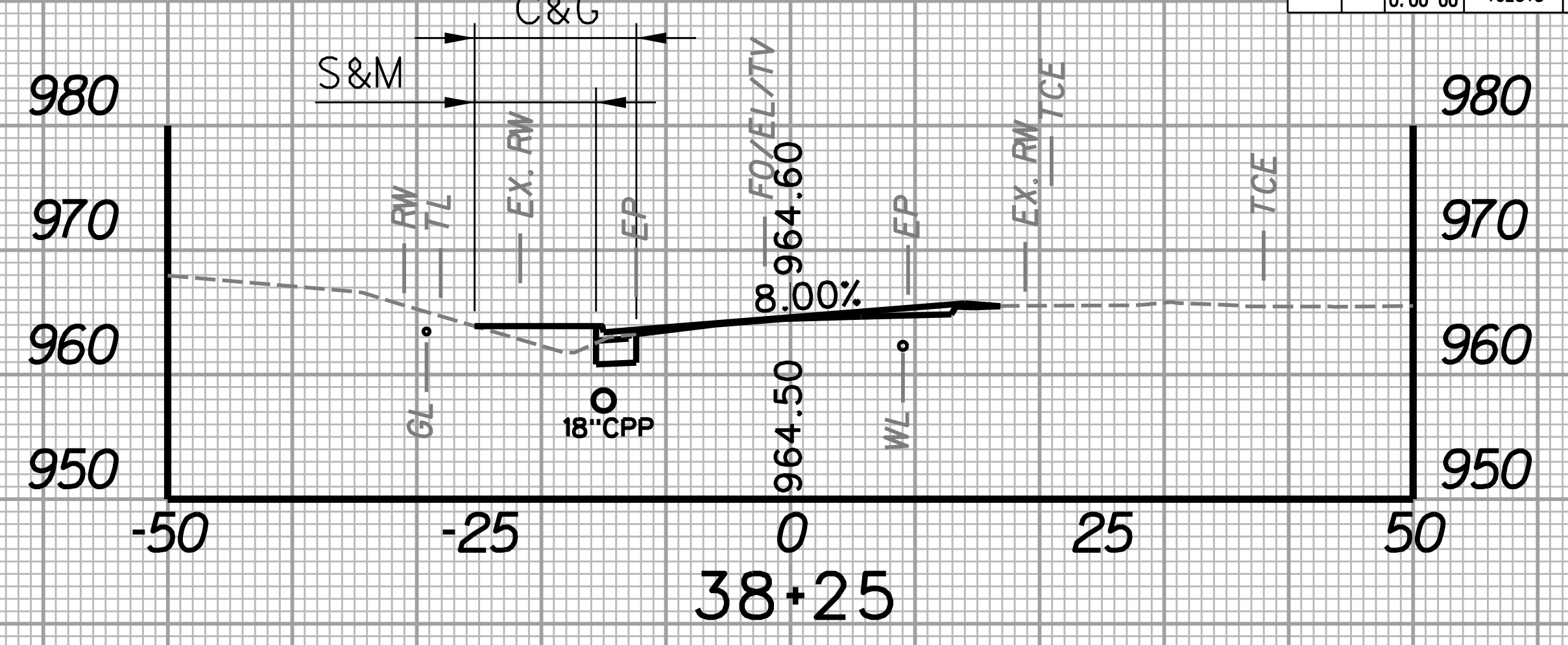


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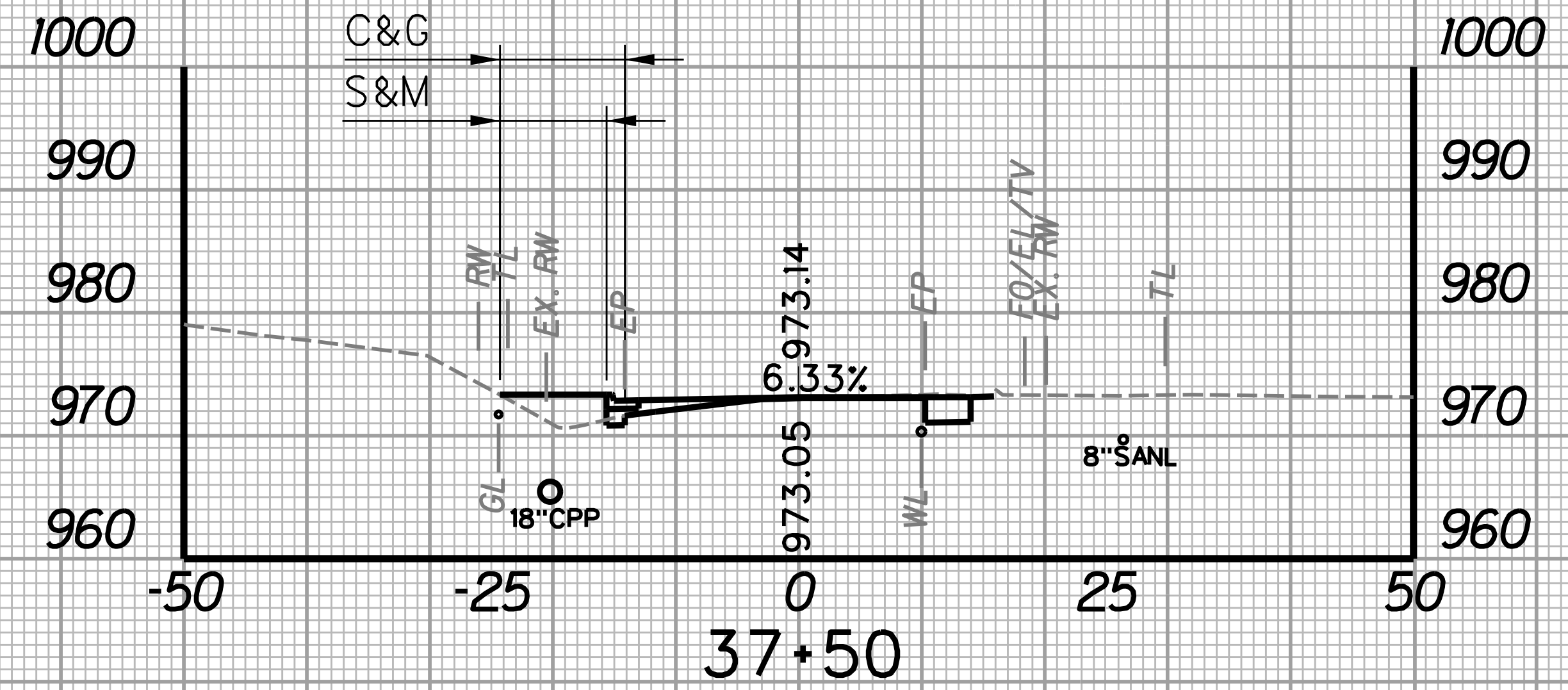
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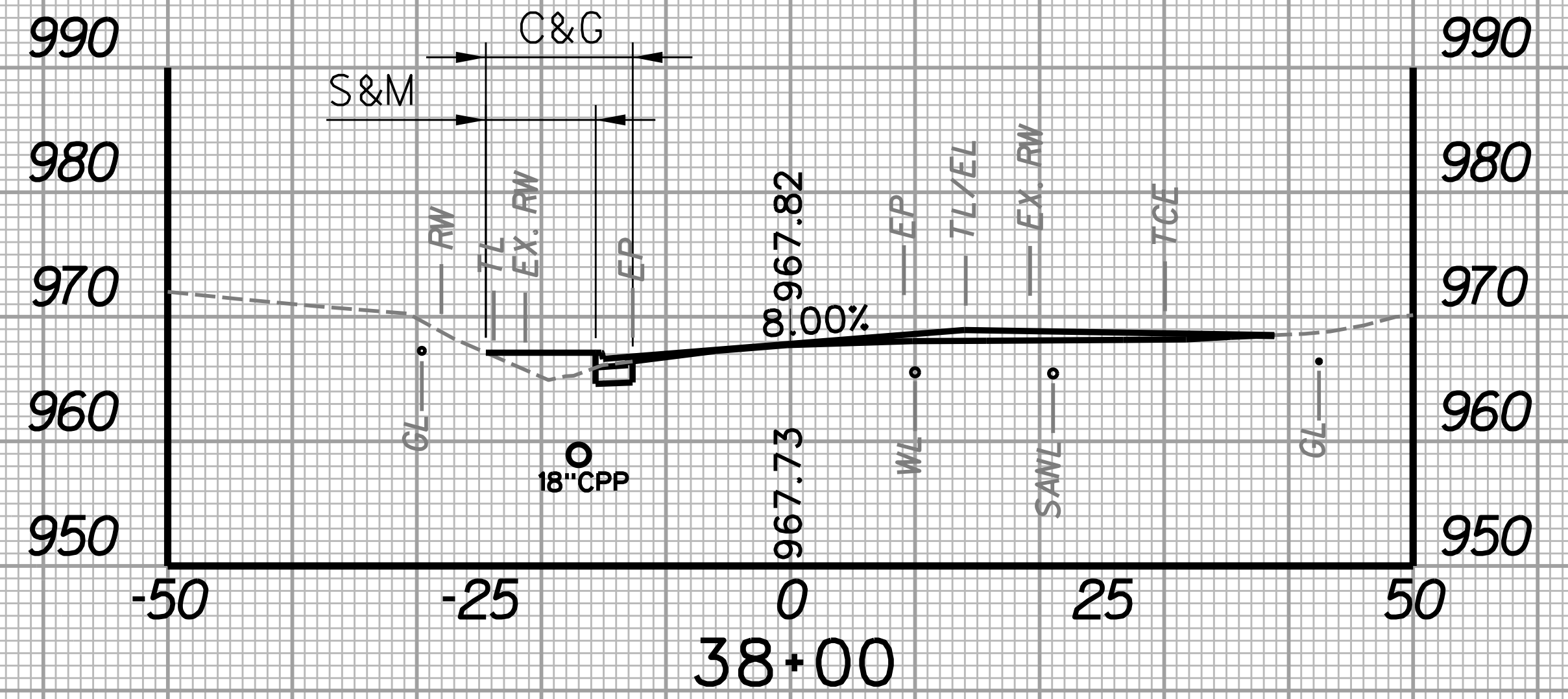
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
37+50	25	6.7	182.5	10.2	243.8	9.0	5.1	15.7	12.0	0.0	0.0
37+75		7.9		9.3		2.1		10.3		0.0	



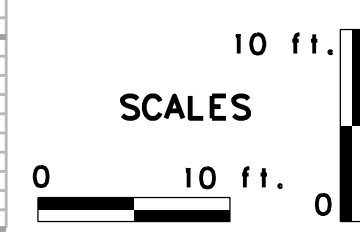
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
38+00	25	8.8	232.5	11.8	310.0	4.6	5.2	12.1	11.6	0.0	0.0
38+25		9.8		13.0		6.7		12.9		0.0	



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
37+25	25	6.3	162.5	8.8	237.5	9.9	8.8	7.6	10.8	0.0	0.0
37+50		6.7		10.2		9.0		15.7		0.0	

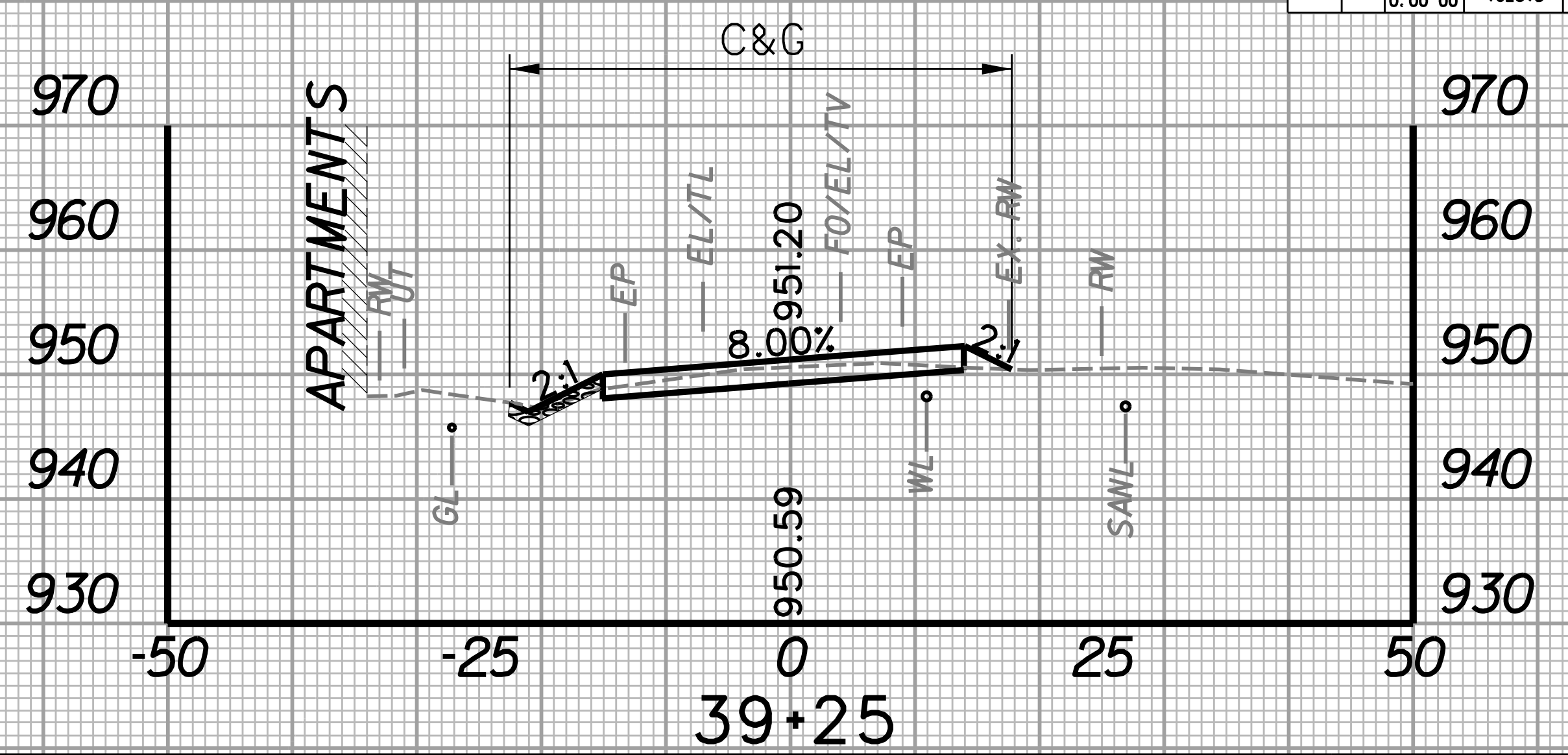
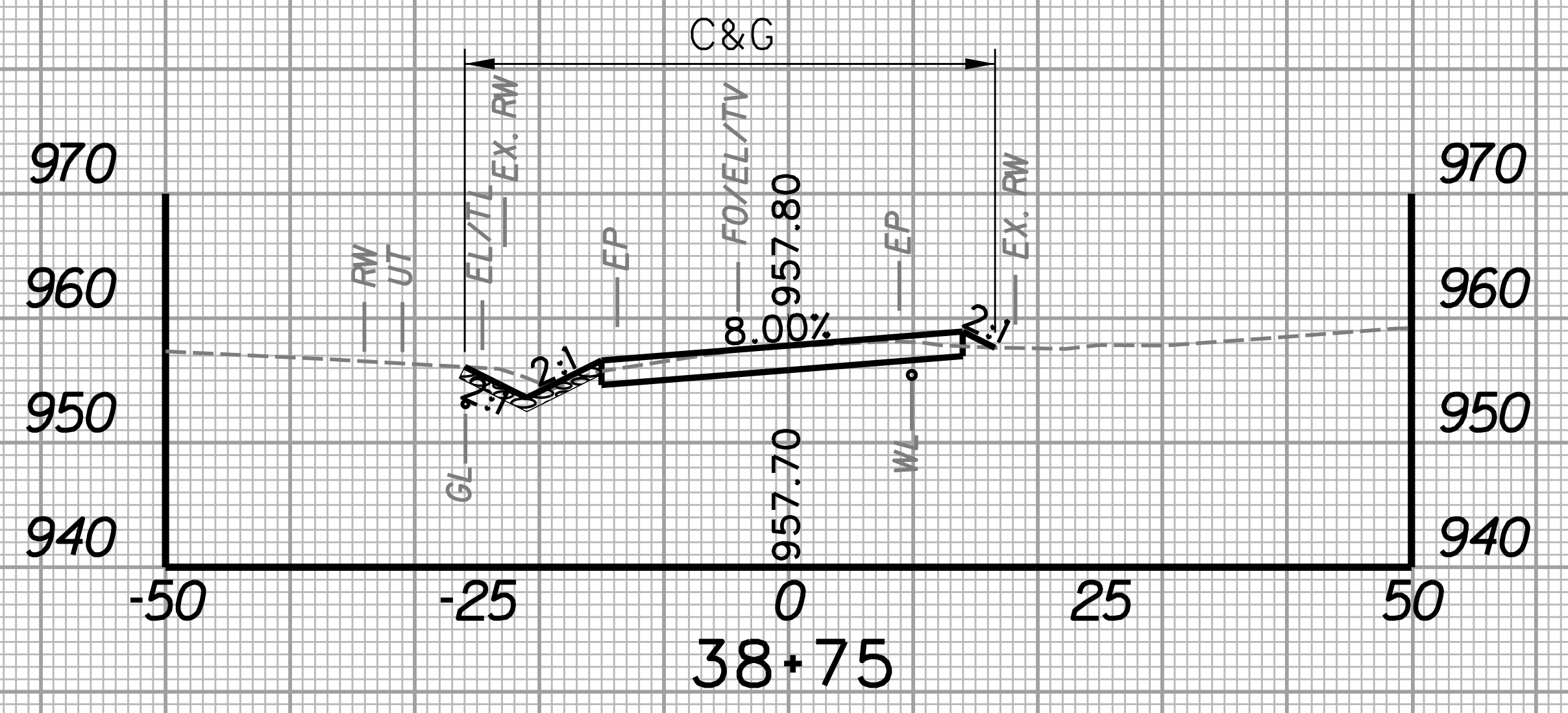


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
37+75	25	7.9	208.8	9.3	263.8	2.1	3.1	10.3	10.4	0.0	0.0
38+00		8.8		11.8		4.6		12.1		0.0	



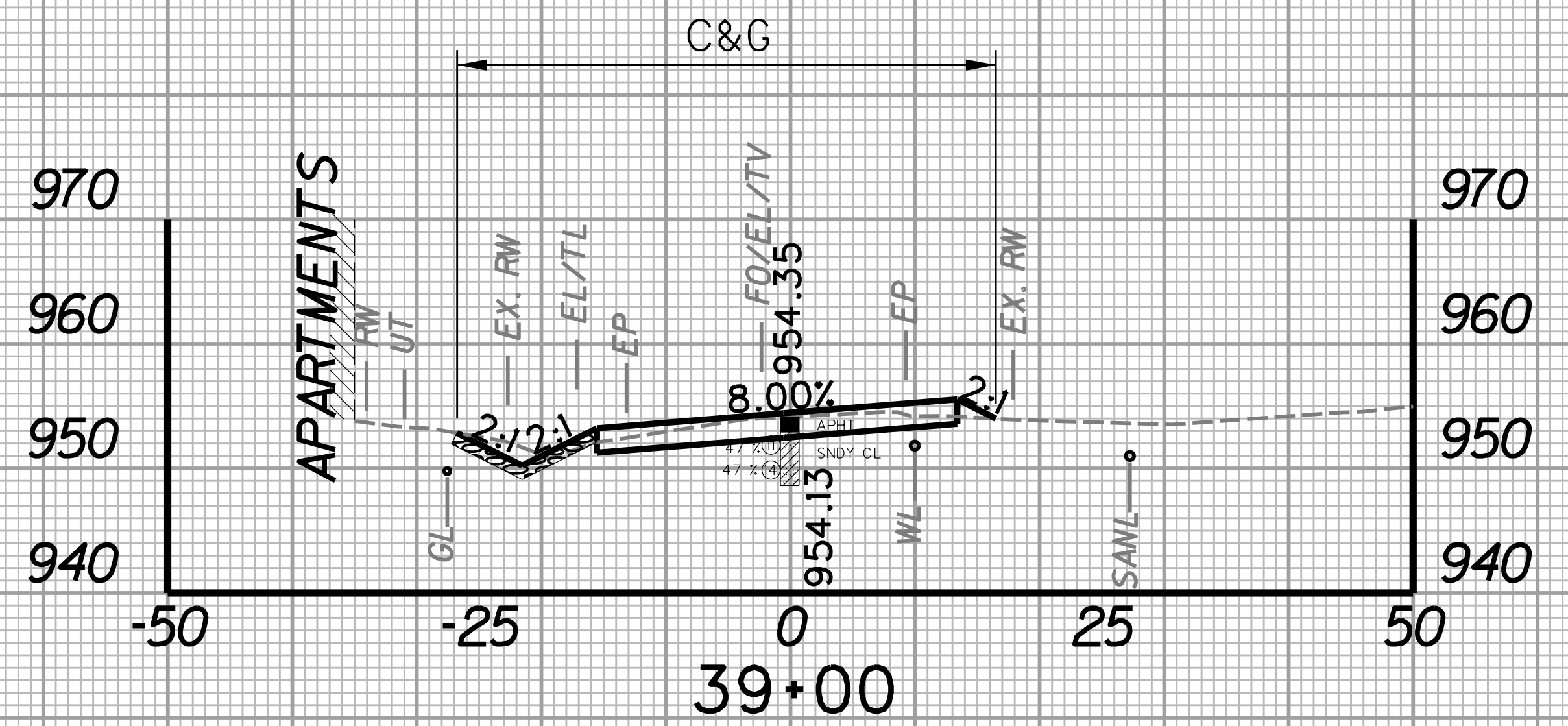
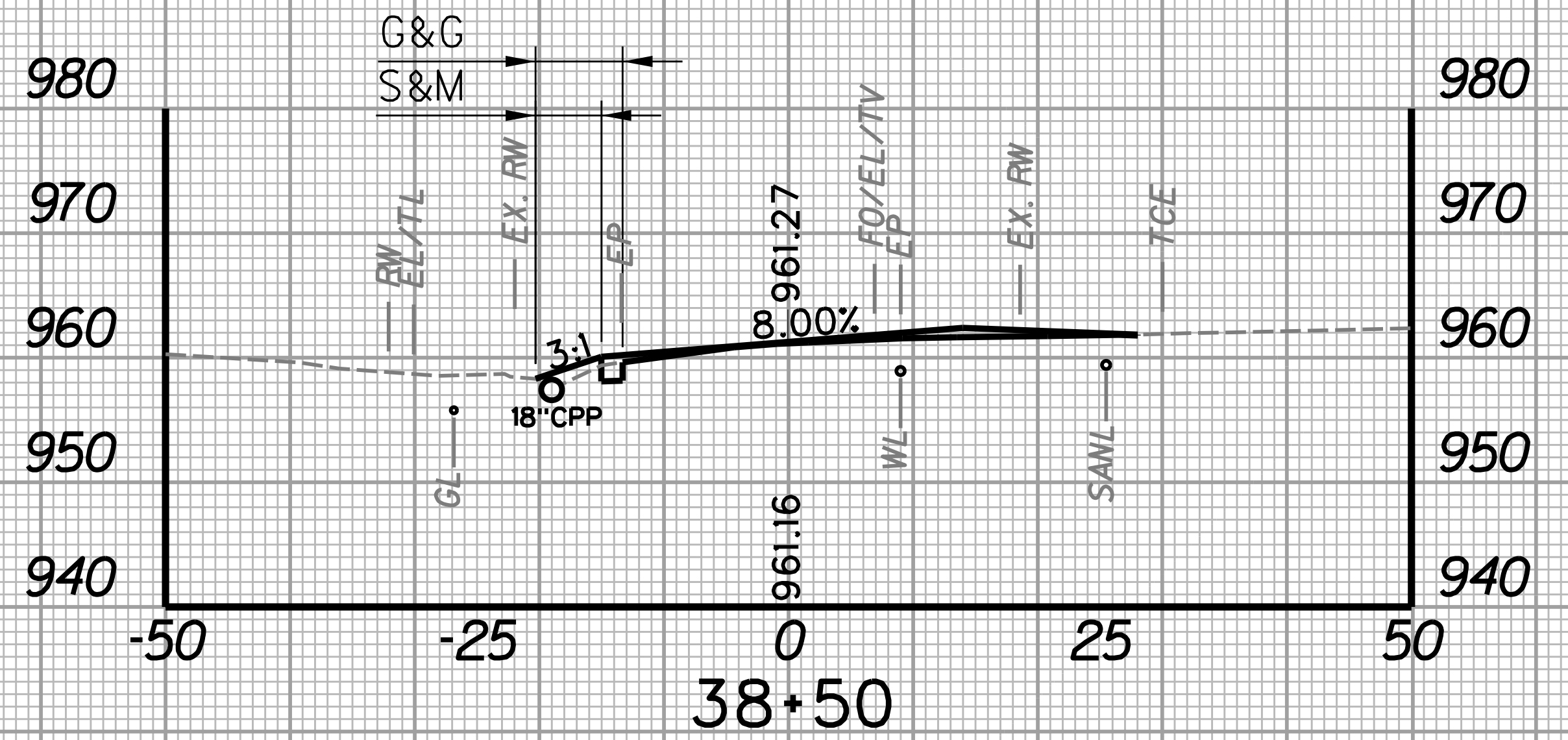
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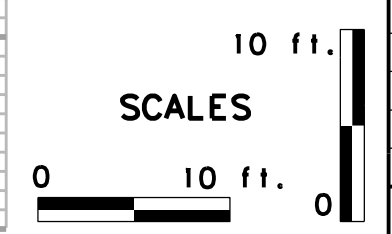
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
38+50		5.3		7.0		2.3		3.8		0.0	
	25		12.3		620.0		30.0		1.8		5.8
38+75		0.0		42.6		62.6		0.0		12.5	

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
39+00		3.1		43.3		53.7		0.0		12.8	
	25		86.3		1046.3		41.3		0.0		9.9
39+25		3.8		40.4		35.6		0.0		8.5	



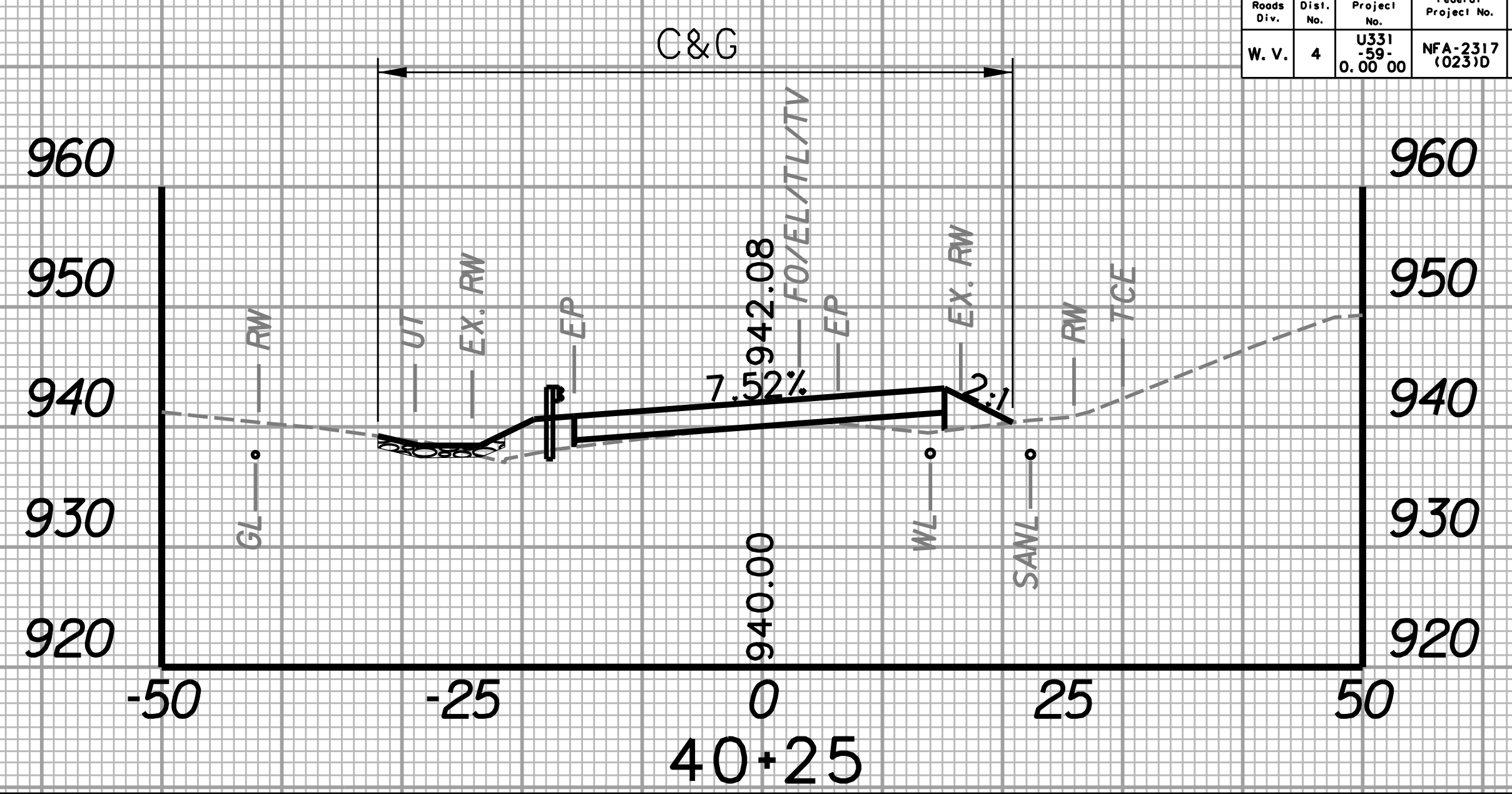
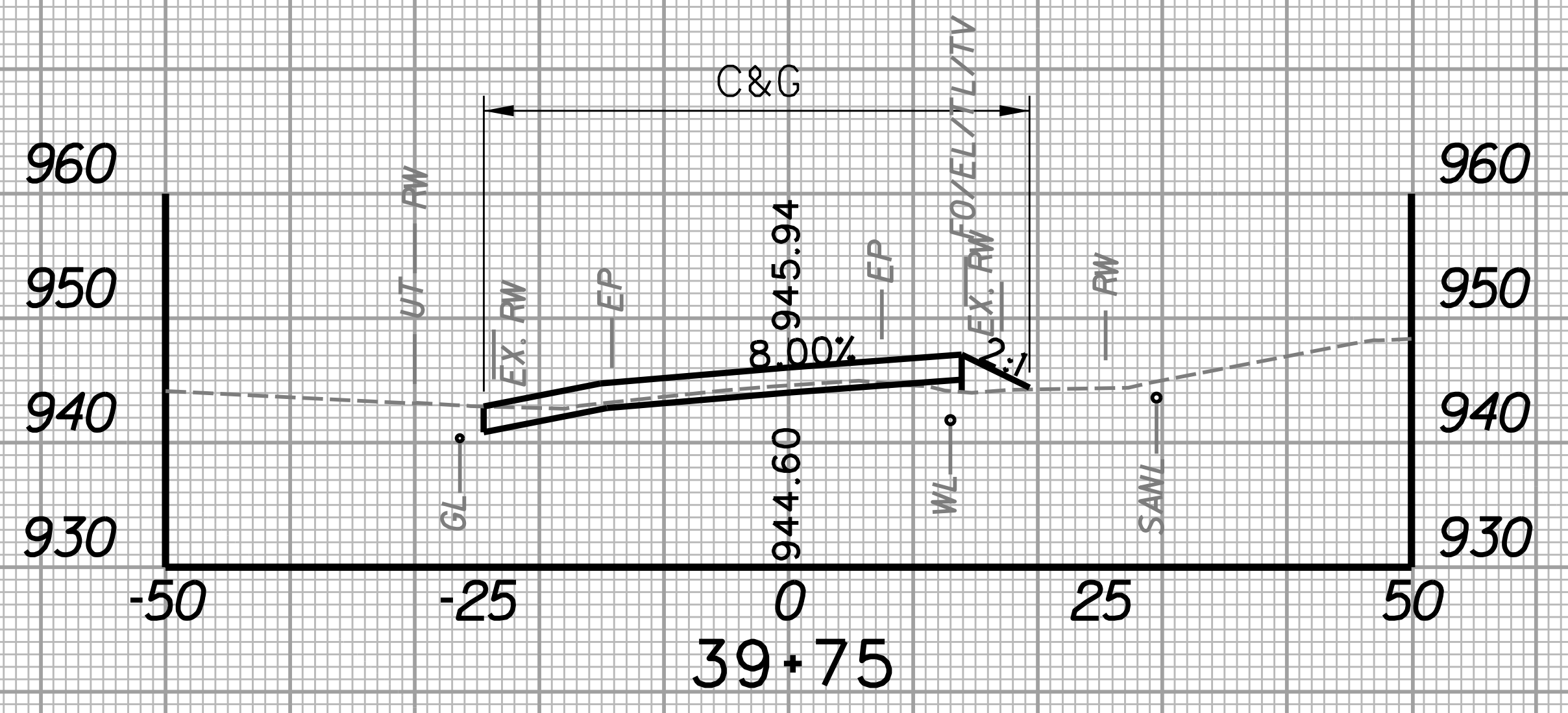
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
38+25		9.8		13.0		6.7		12.9		0.0	
	25		188.8		250.0		4.2		7.7		0.0
38+50		5.3		7.0		2.3		3.8		0.0	

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
38+75		0.0		42.6		62.6		0.0		12.5	
	25		38.8		1073.8		53.8		0.0		11.7
39+00		3.1		43.3		53.7		0.0		12.8	



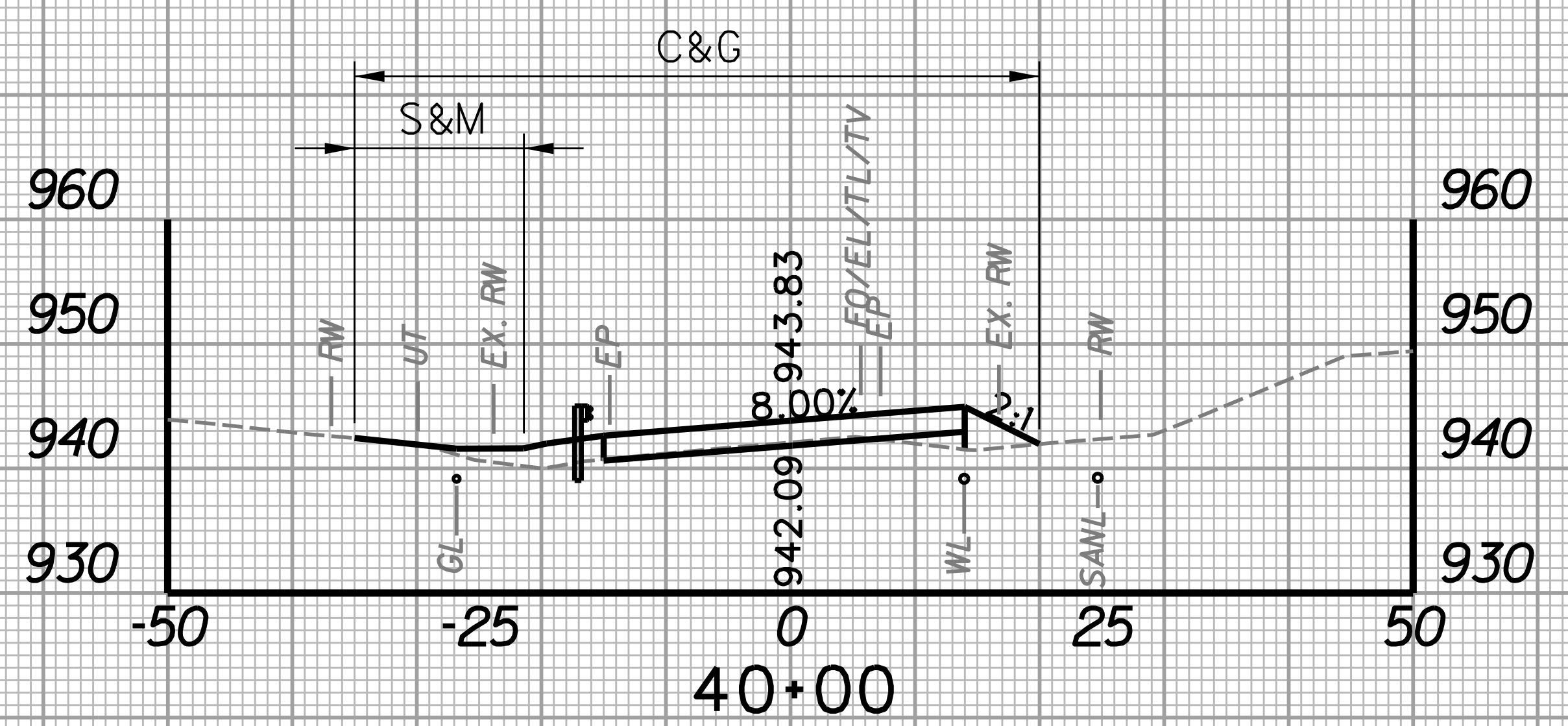
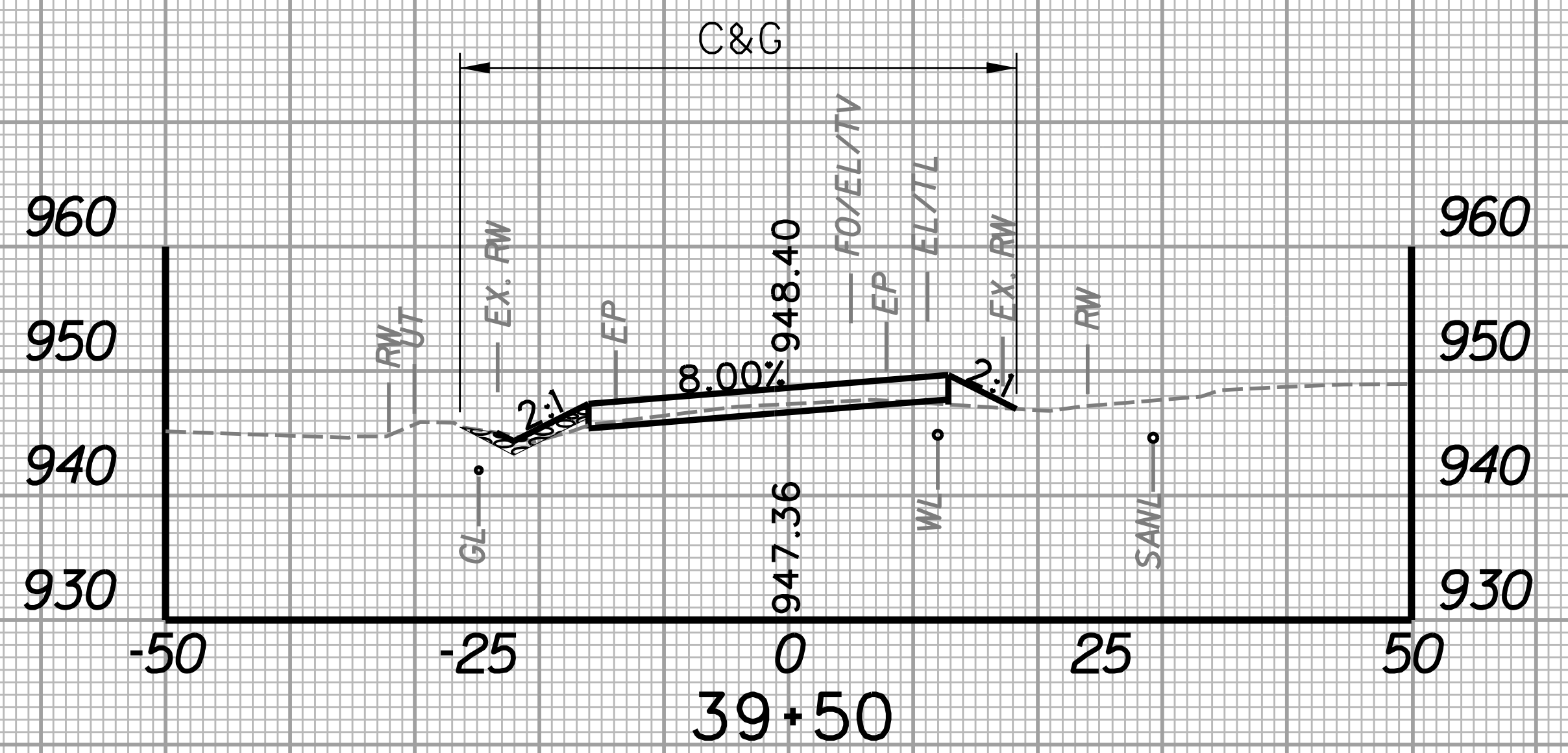
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STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION		
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY	
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY	
39+50		0.0		44.7		18.7		0.0		9.9		4.6
39+75	25	0.0	0.0		1106.3		39.2		0.9			
39+75		0.0		43.8		21.3		2.0		0.0		

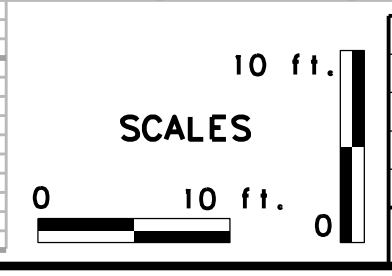
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION		
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY	
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY	
40+00		13.7		55.0		4.8		4.8		0.0		4.9
40+25	25	0.0	171.3		1347.5		5.9		6.2			
40+25		0.0		52.8		7.9		8.6		10.6		



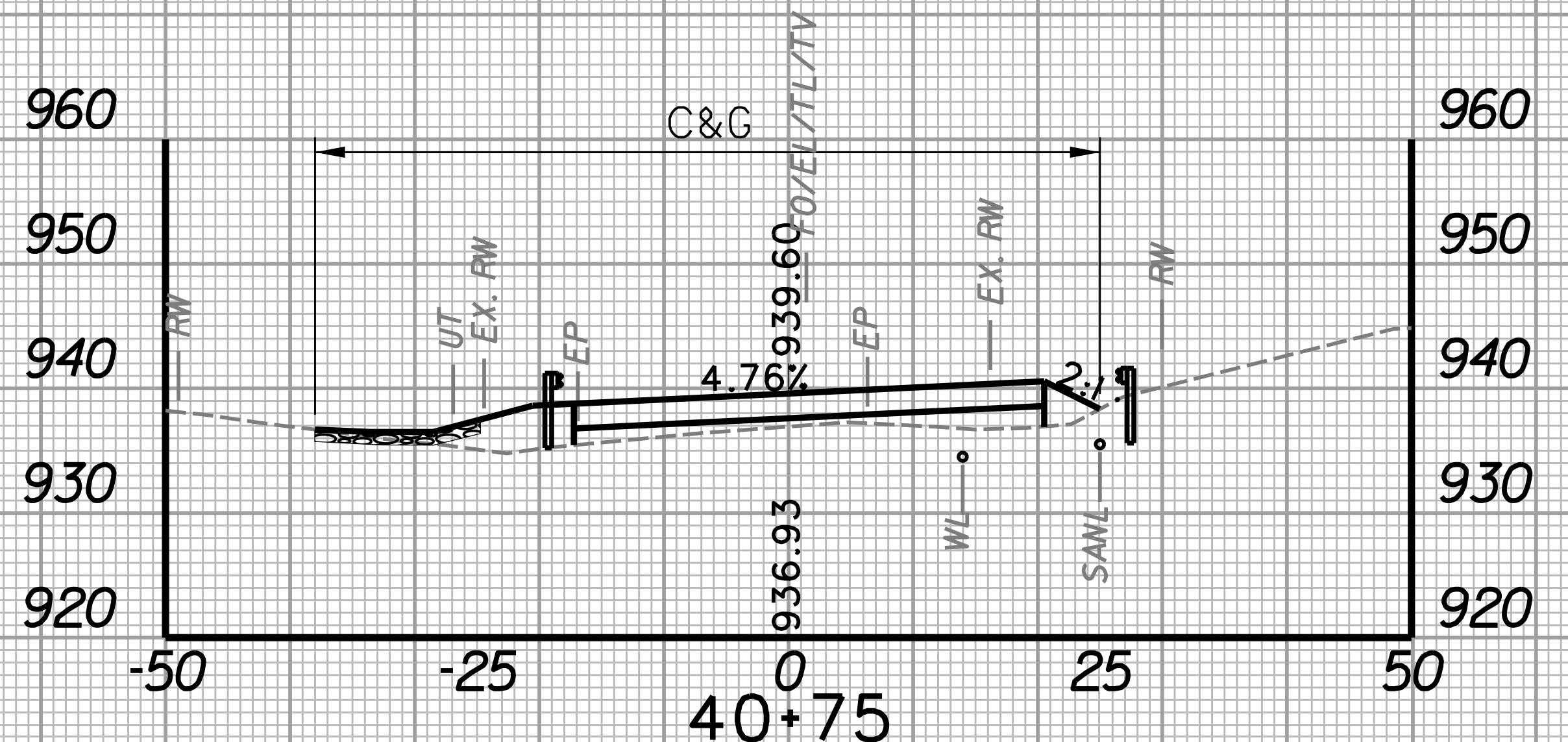
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION		
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY	
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY	
39+25		3.8		7.5		35.6		0.0		8.5		8.5
39+50	25	0.0	16.5		455.4		25.1		0.0			
39+50		0.0		44.7		18.7		0.0		9.9		

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION		
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY	
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY	
39+75		0.0		43.8		21.3		2.0		0.0		0.0
40+00	25	13.7	171.3		1235.0		12.1		3.1			
40+00		13.7		55.0		4.8		4.8		0.0		

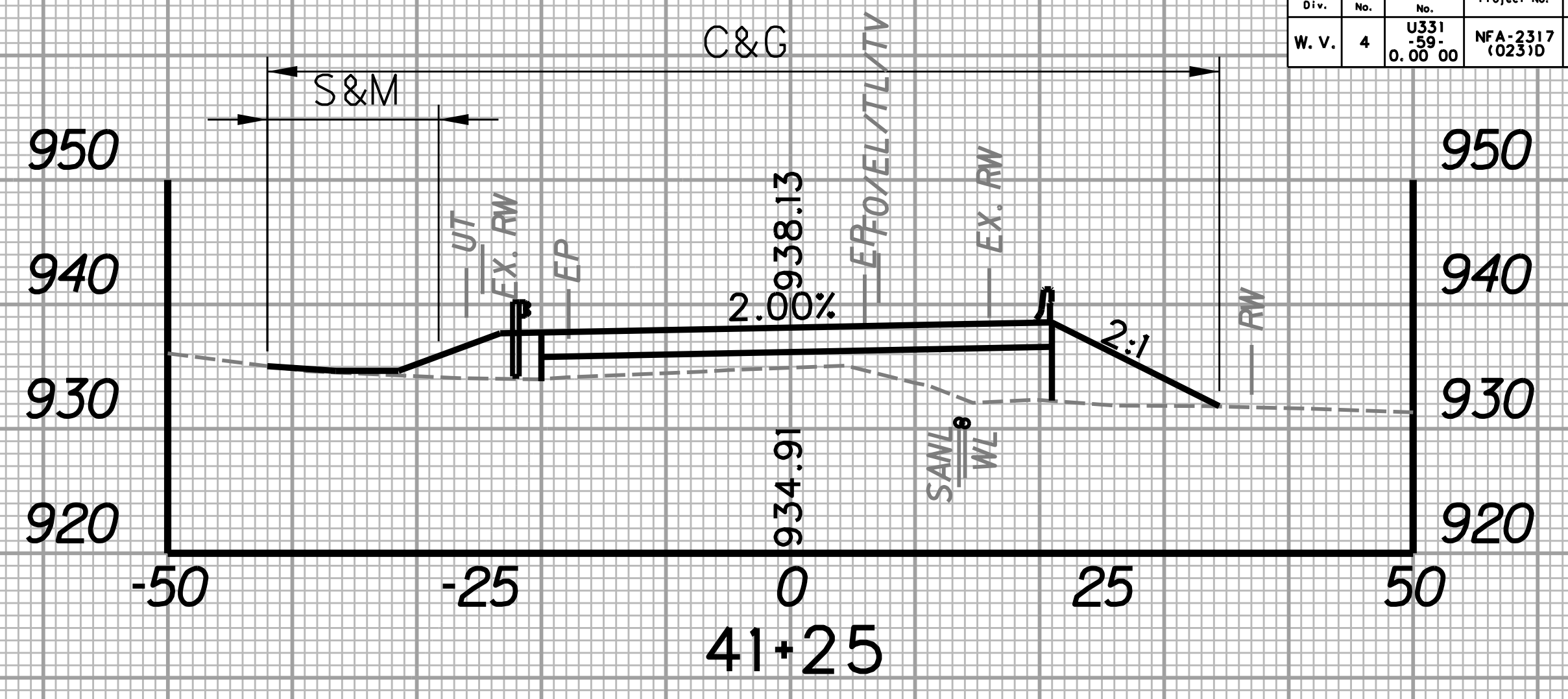
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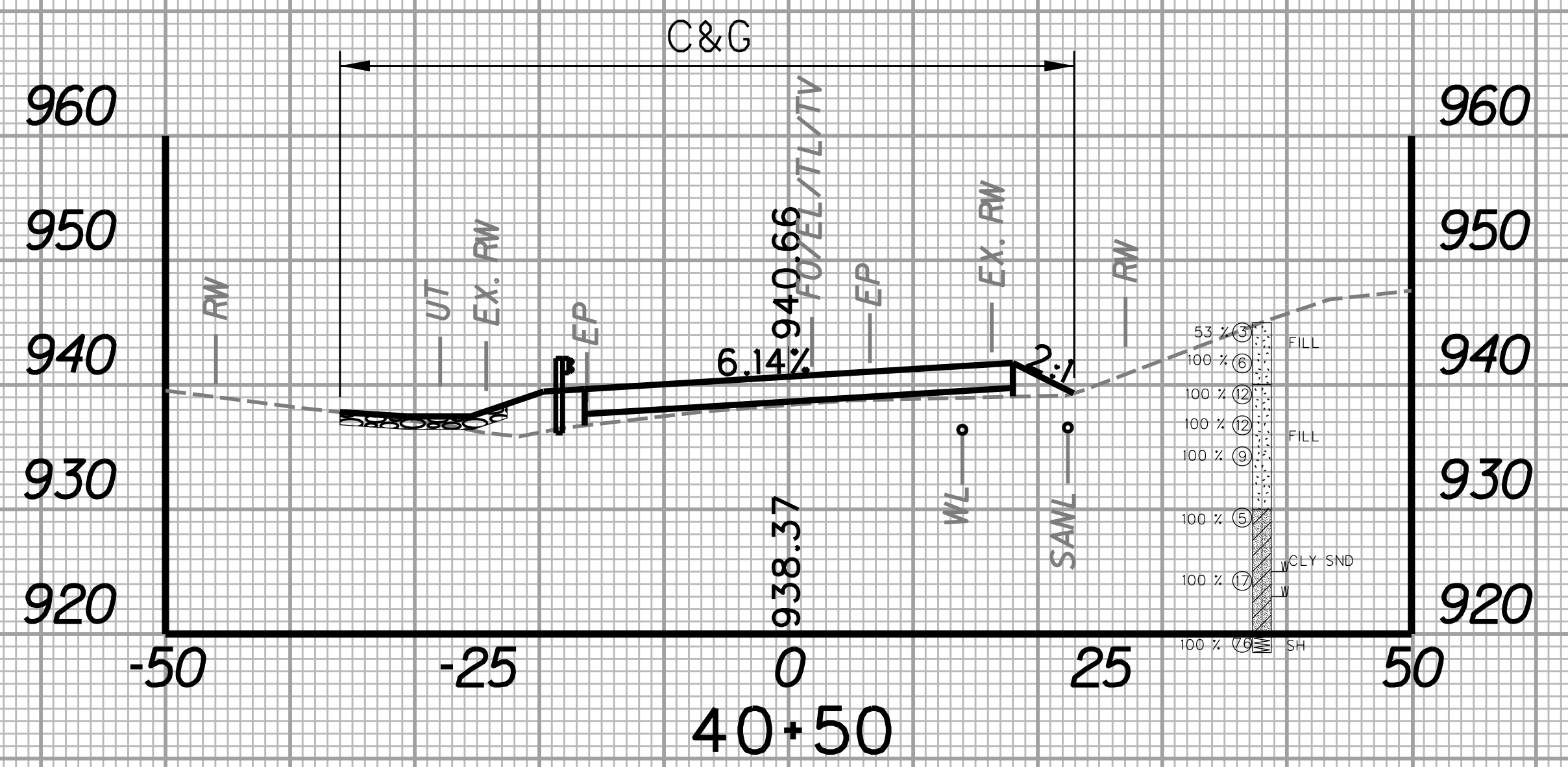
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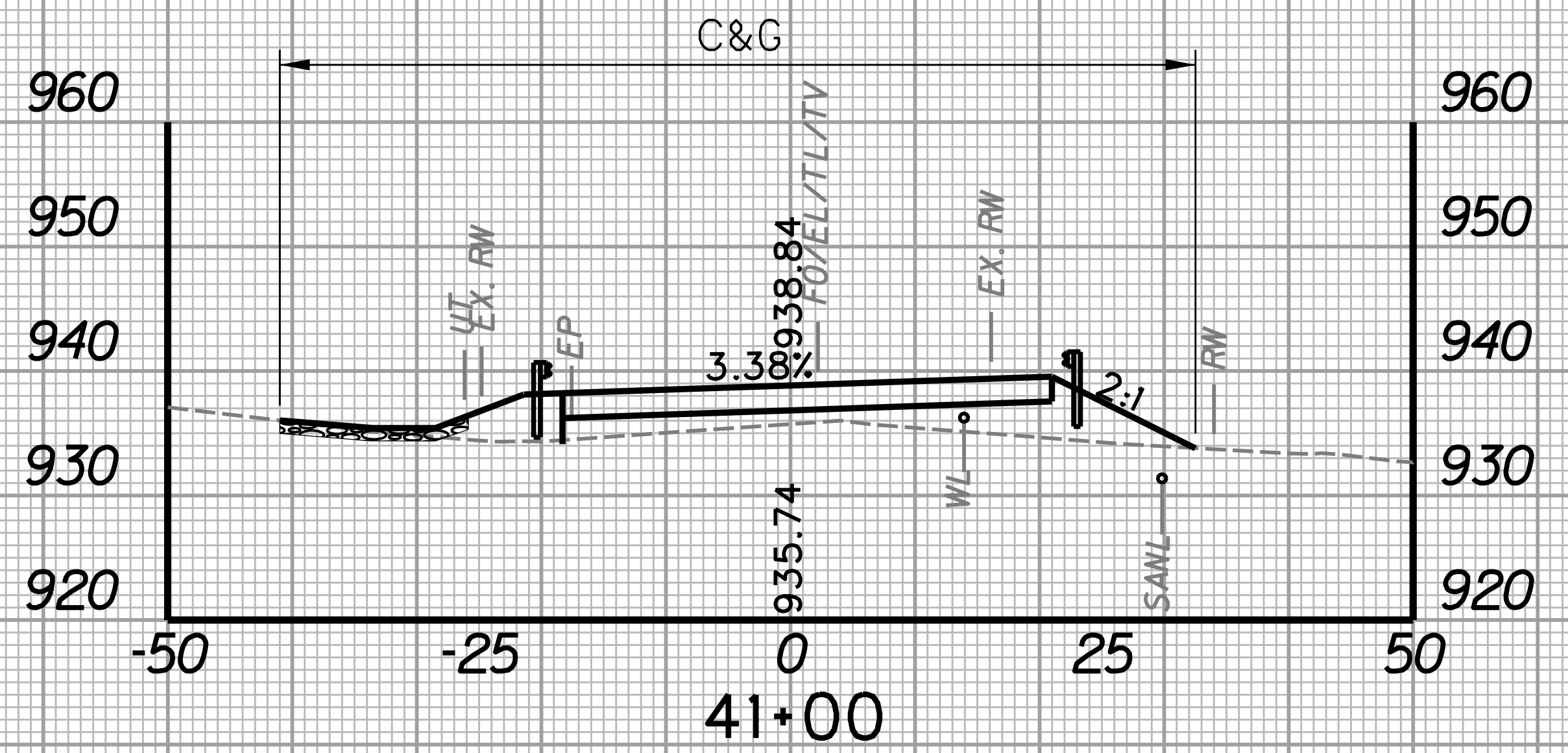
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
40+50		0.0		58.9		6.6		26.3		14.0	
	25		0.0		1523.8		5.2		40.0		12.8
40+75		0.0		63.0		4.6		60.2		13.7	



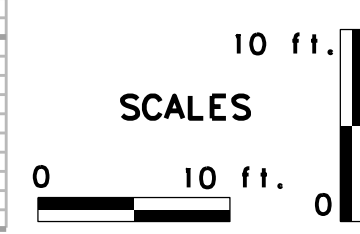
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
41+00		0.0		73.5		9.6		100.9		15.7	
	25		172.5		1873.8		4.4		114.8		7.3
41+25		13.8		76.4		0.0		147.1		0.0	



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
40+25		0.0		52.8		7.9		8.6		10.6	
	25		16.5		1396.3		6.7		16.2		11.4
40+50		0.0		58.9		6.6		26.3		14.0	

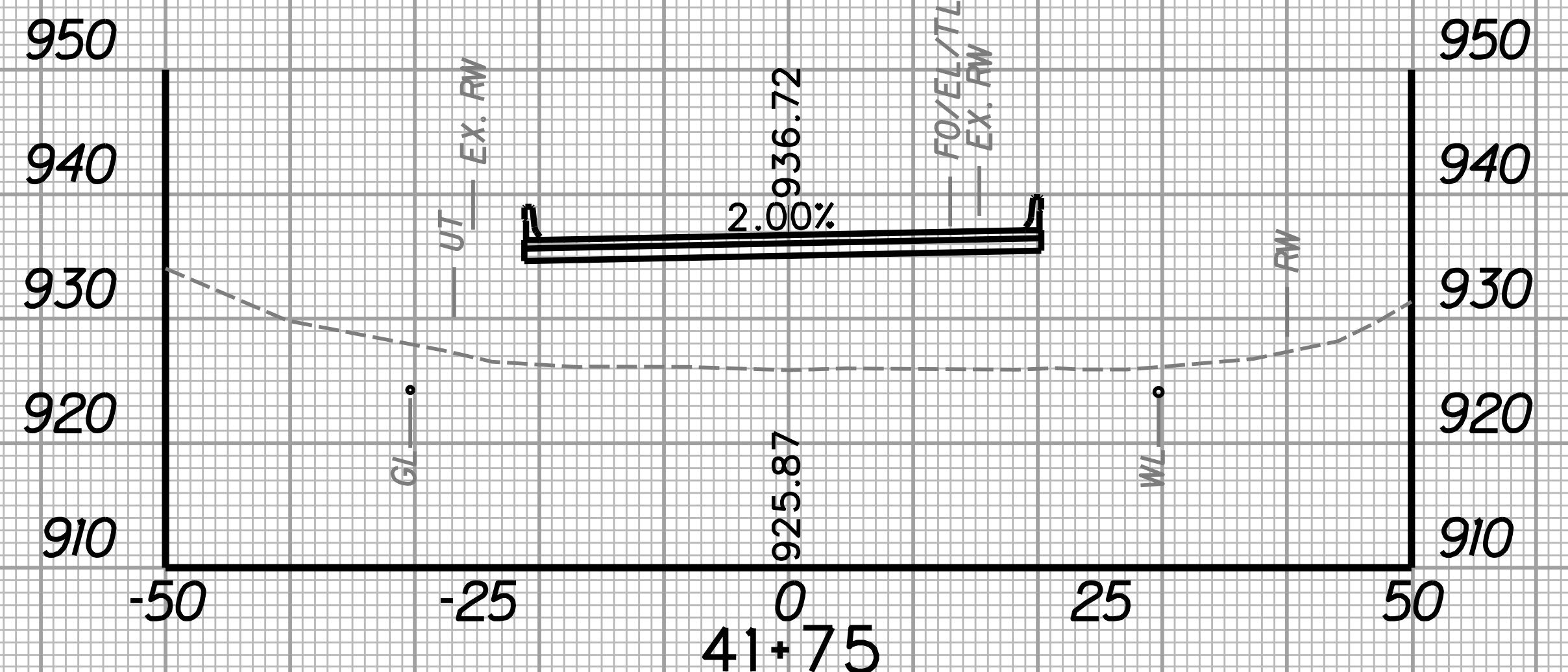


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
40+75		0.0		63.0		4.6		60.2		13.7	
	25		0.0		1706.3		6.6		74.6		13.6
41+00		0.0		73.5		9.6		100.9		15.7	

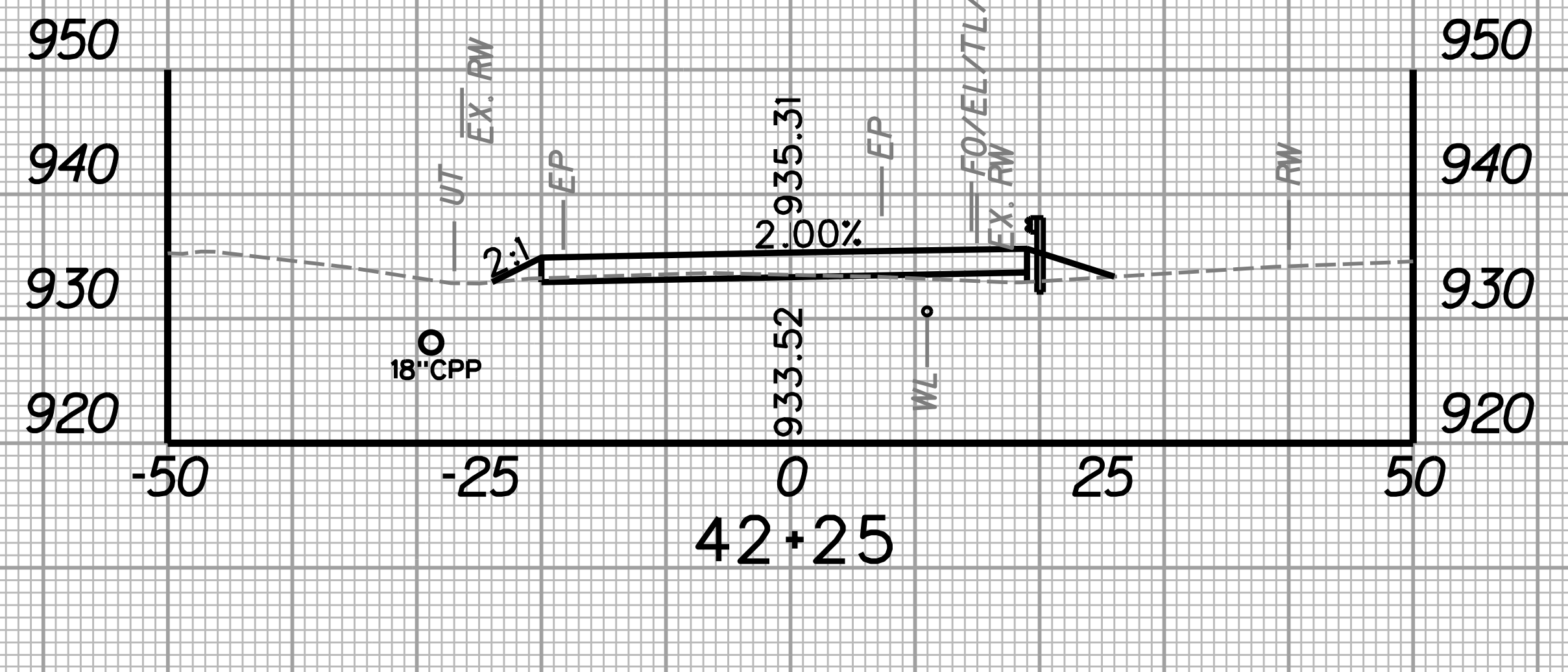


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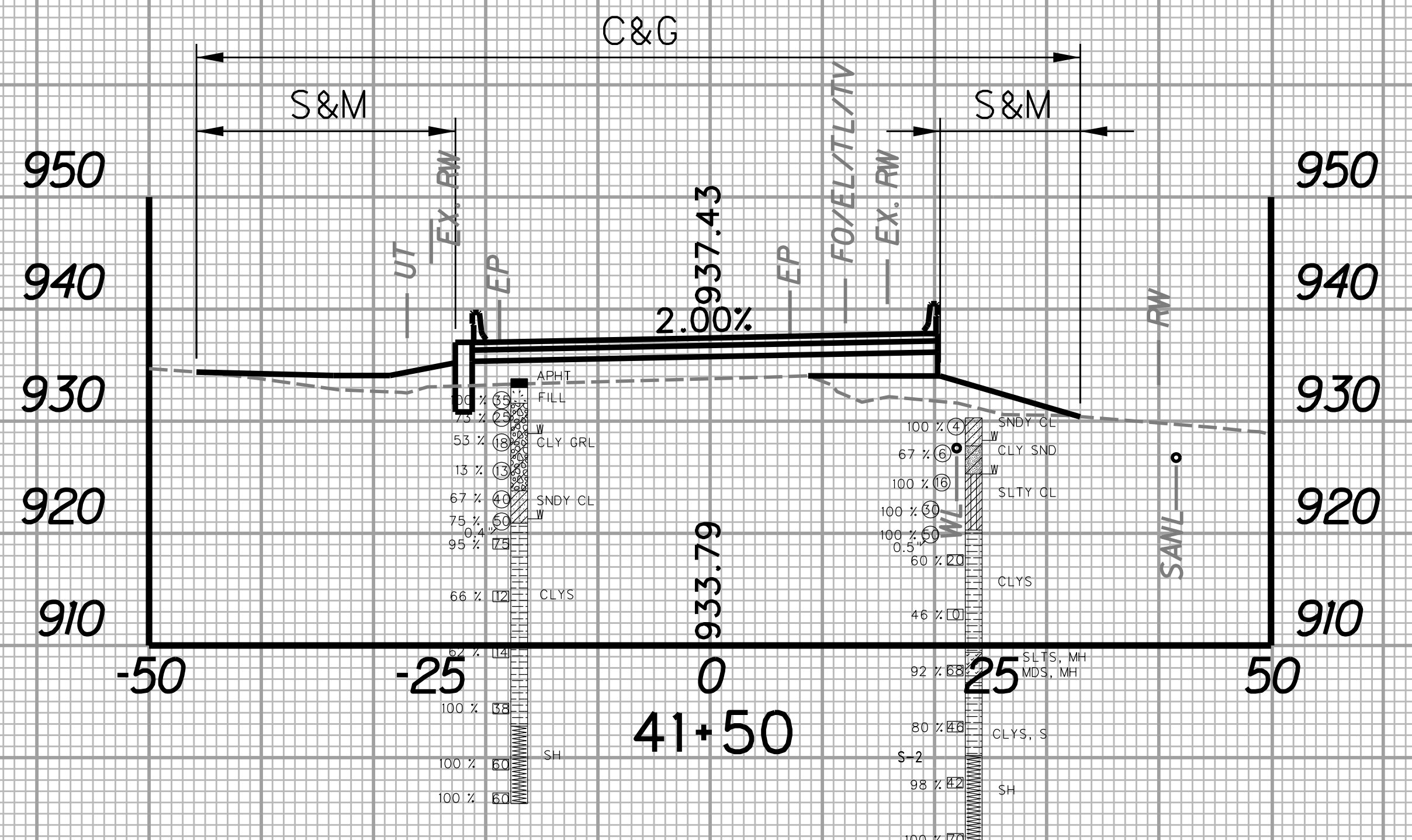
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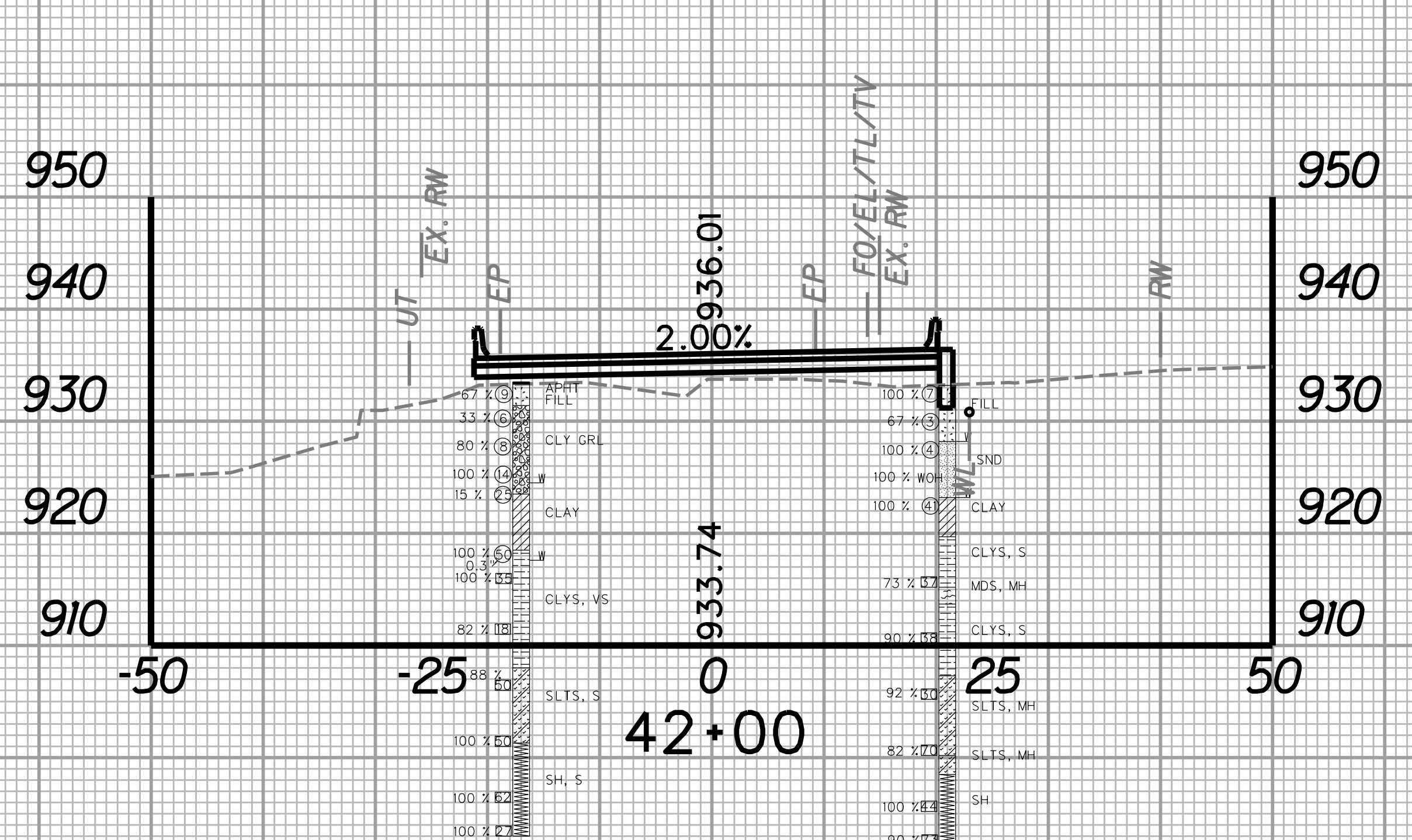
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
41+50		35.6		78.8		0.0		0.0		0.0	
	25		455.0		985.0		0.0		0.0		0.0
41+75		0.0		0.0		0.0		0.0		0.0	



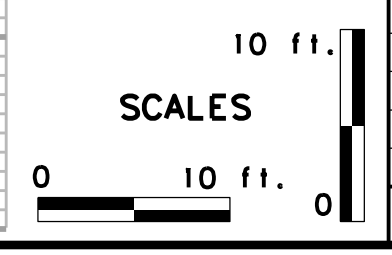
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
42+00		0.0		0.0		0.0		0.0		0.0	
	25		0.0		0.0		0.0		0.0		0.0
42+25		0.0		0.0		0.0		0.0		0.0	



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
41+25		0.9		18.3		0.0		147.1		0.0	
	25		16.5		455.4		0.0		96.5		0.0
41+50		35.6		78.8		0.0		61.4		0.0	

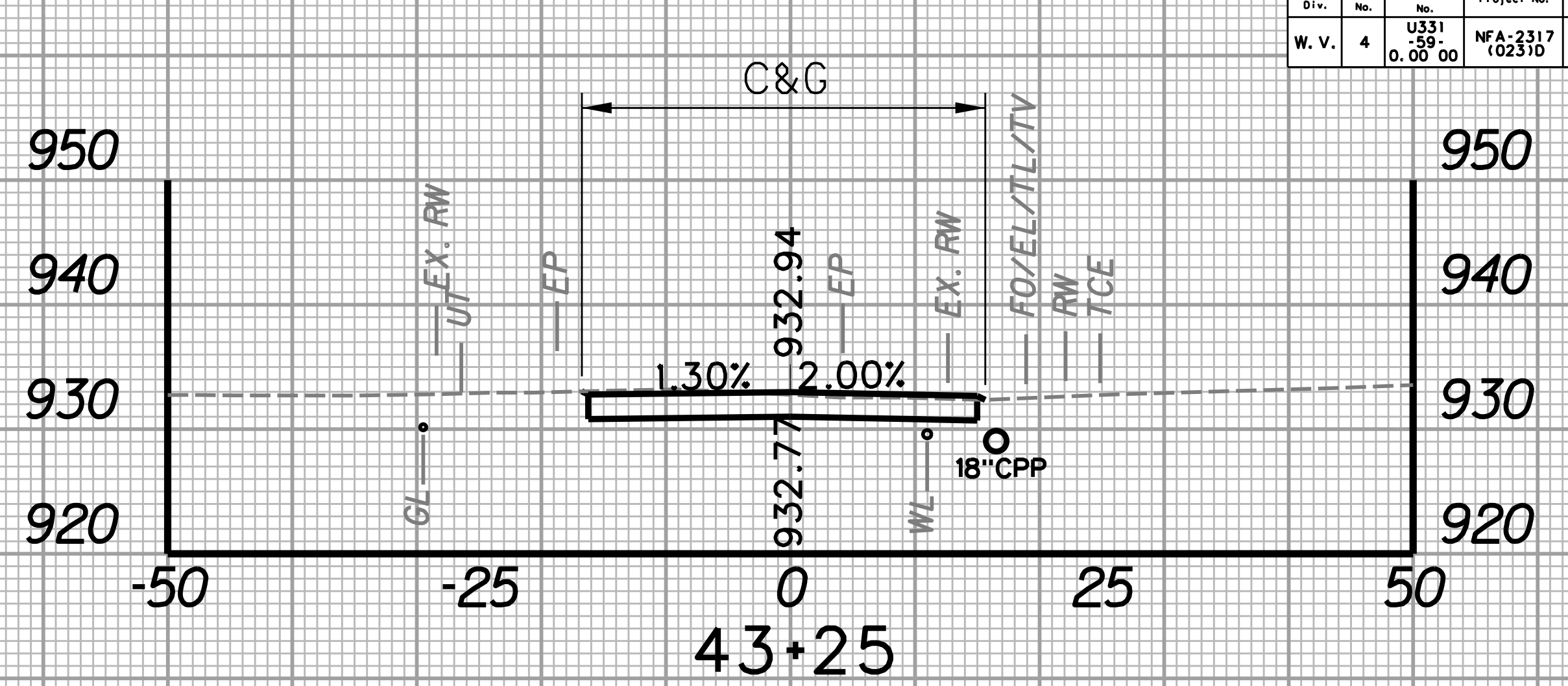
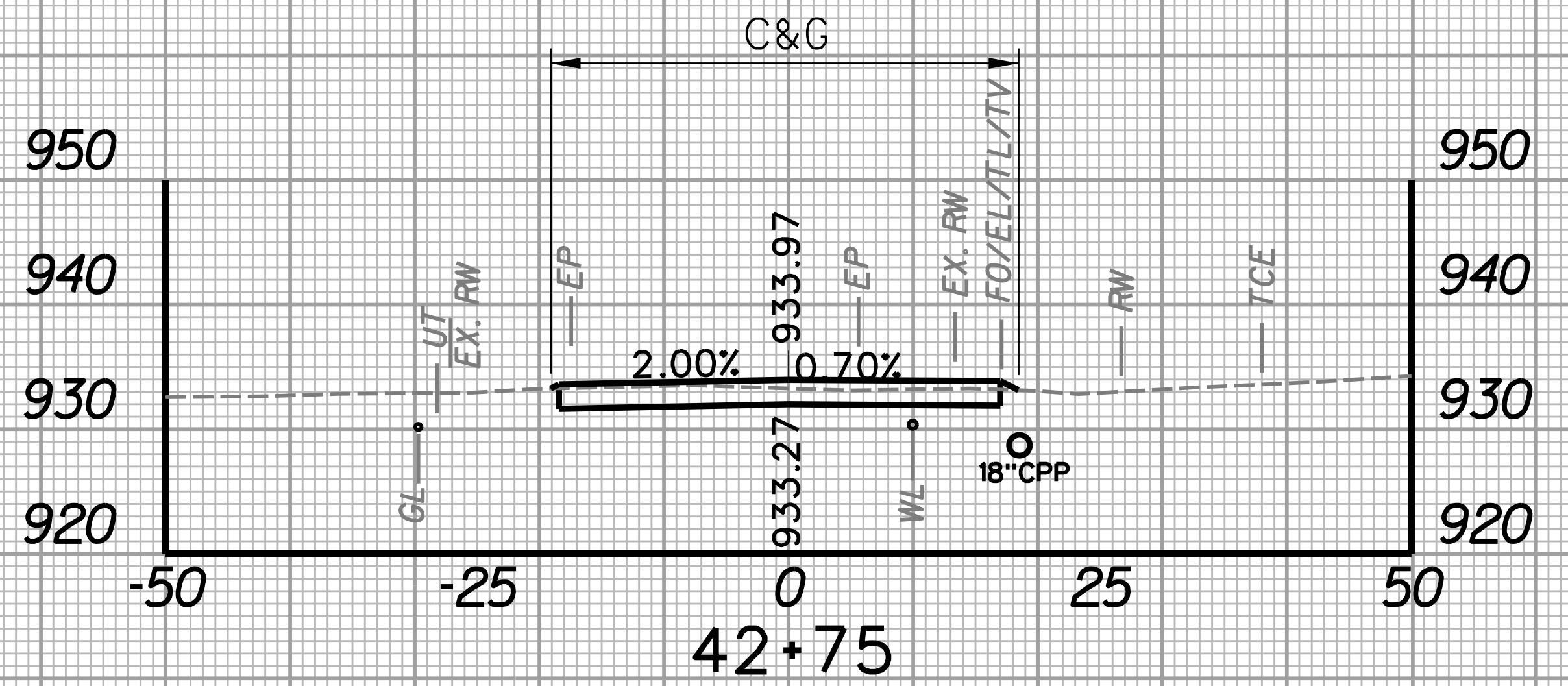


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
41+75		0.0		0.0		0.0		0.0		0.0	
	25		0.0		0.0		0.0		0.0		0.0
42+00		0.0		0.0		0.0		0.0		0.0	



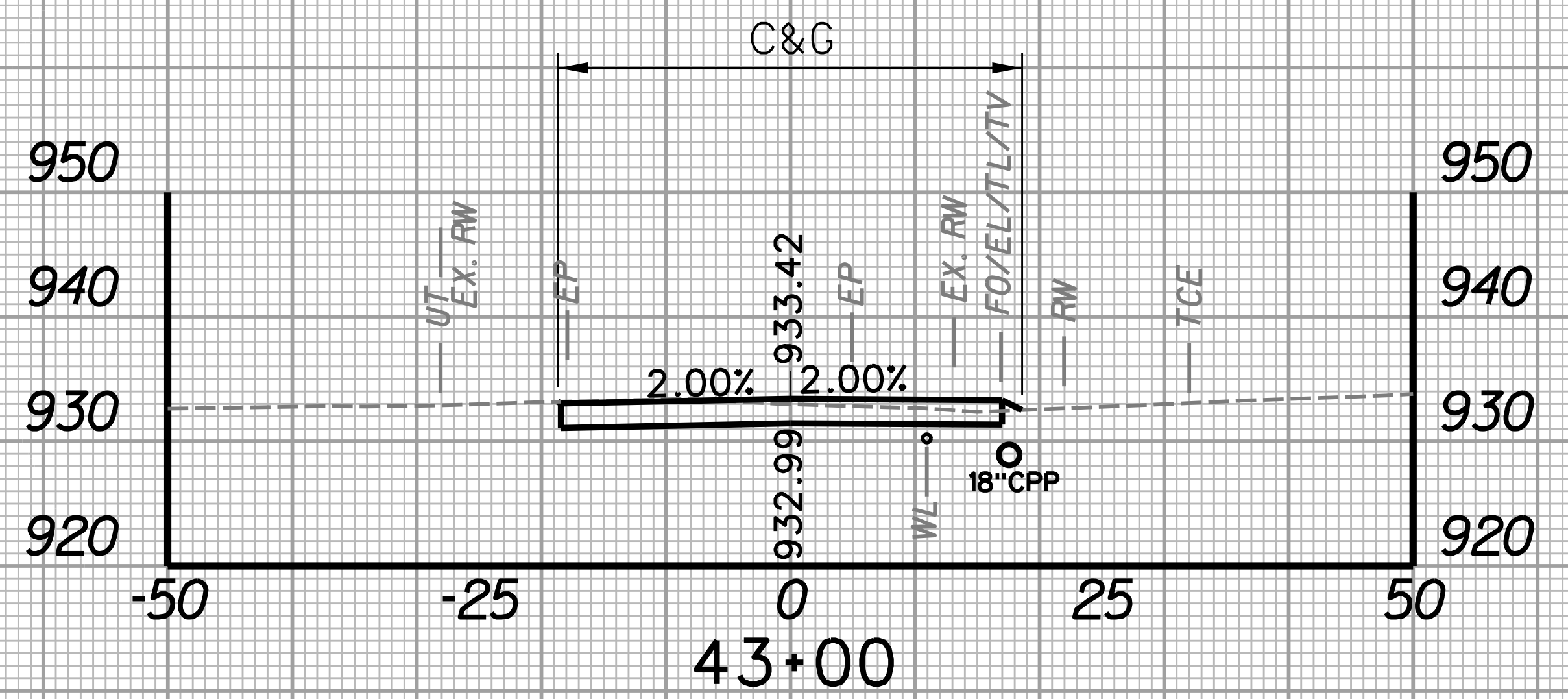
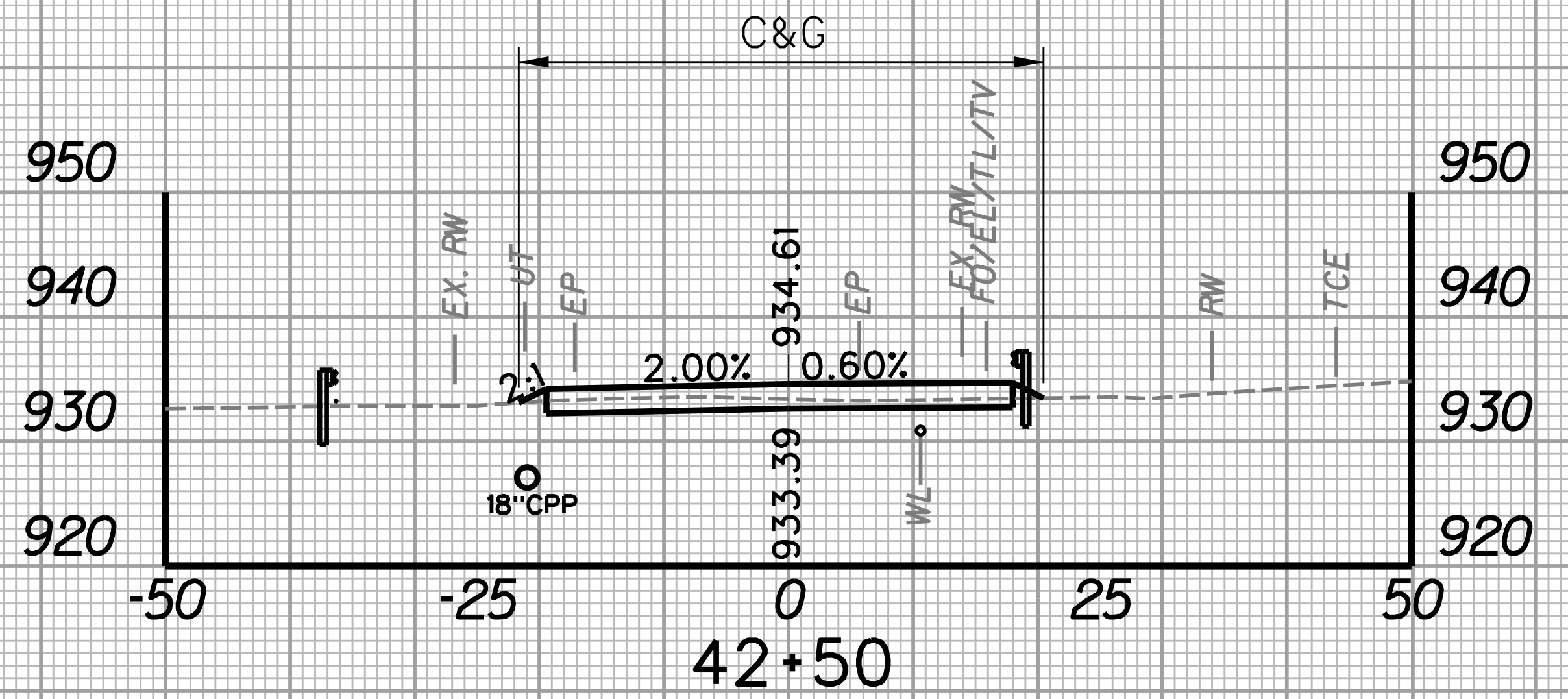
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

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STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
42+50		0.0		42.1		32.1		0.0		0.0	
42+75	25	0.0	0.0	37.6	996.3	50.3	38.1	0.0	0.0	0.0	0.0

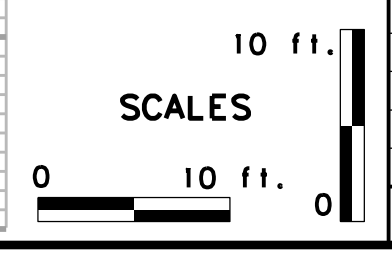
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
43+00		0.0		37.3		59.4		0.0		0.0	
43+25	25	0.0	0.0	32.4	871.3	59.4	55.0	0.0	0.0	0.0	0.0



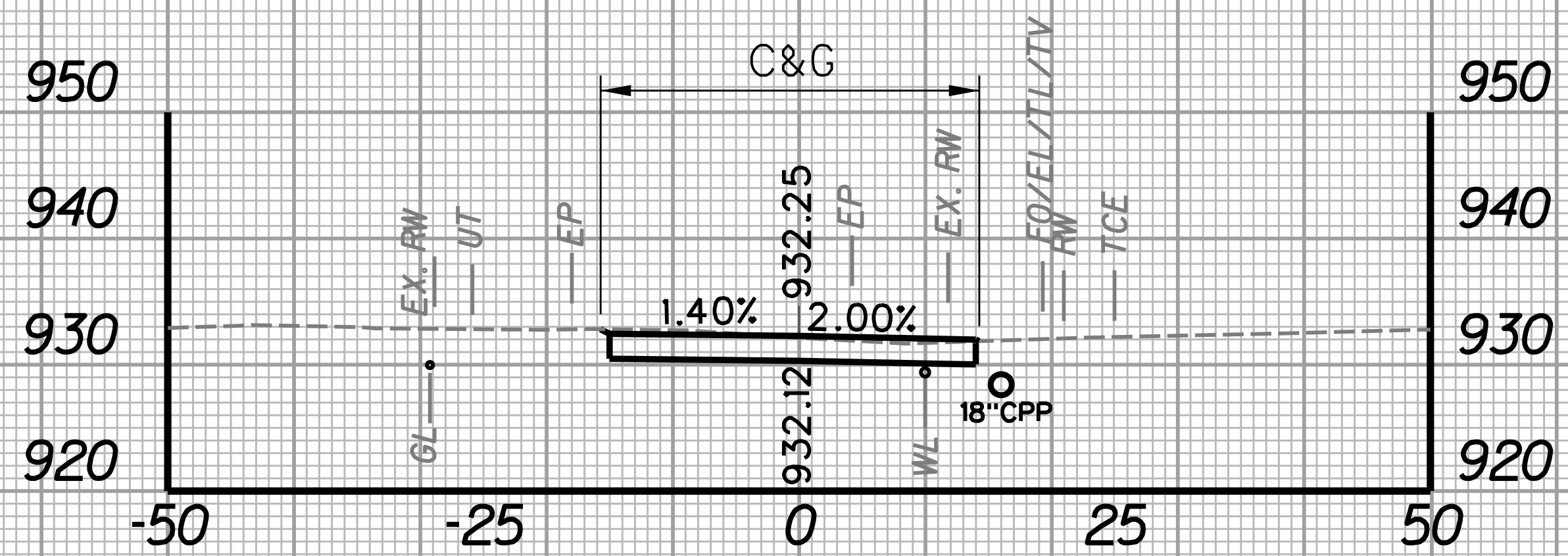
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
42+25		0.0		0.0		0.0		0.0		0.0	
42+50	25	0.0	0.0	42.1	526.3	32.1	14.9	0.0	0.0	0.0	0.0

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
42+75		0.0		37.6		50.3		0.0		0.0	
43+00	25	0.0	0.0	37.3	936.3	59.4	50.8	0.0	0.0	0.0	0.0

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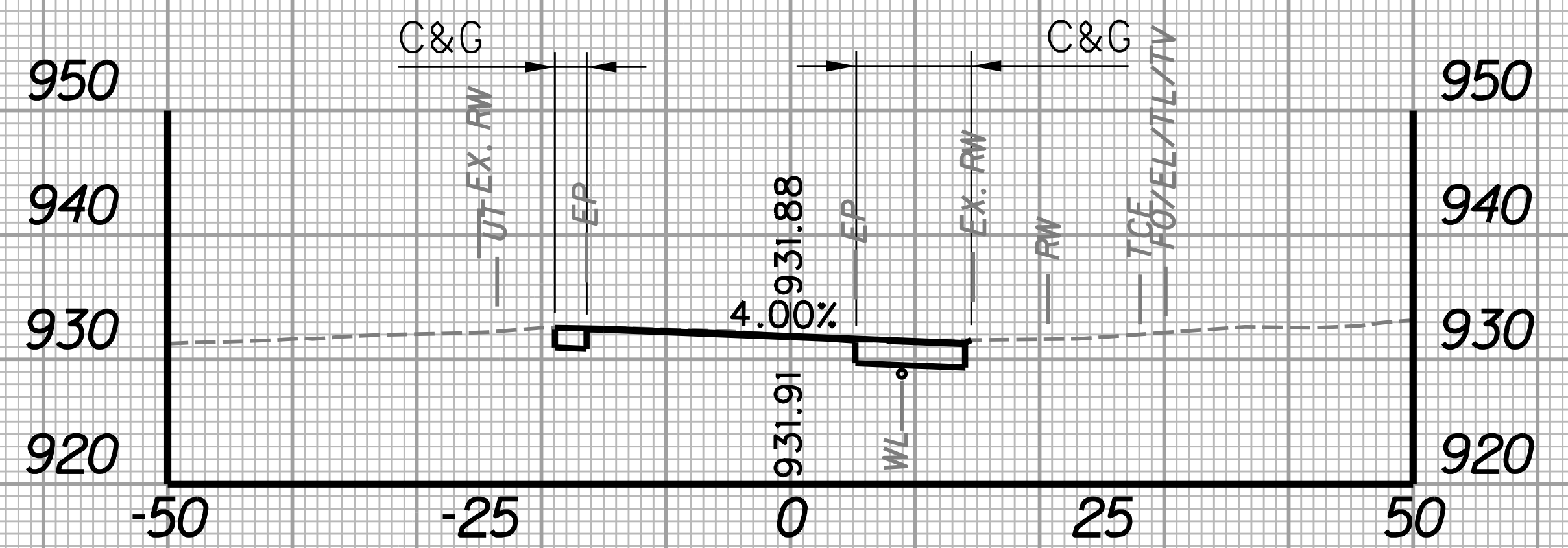


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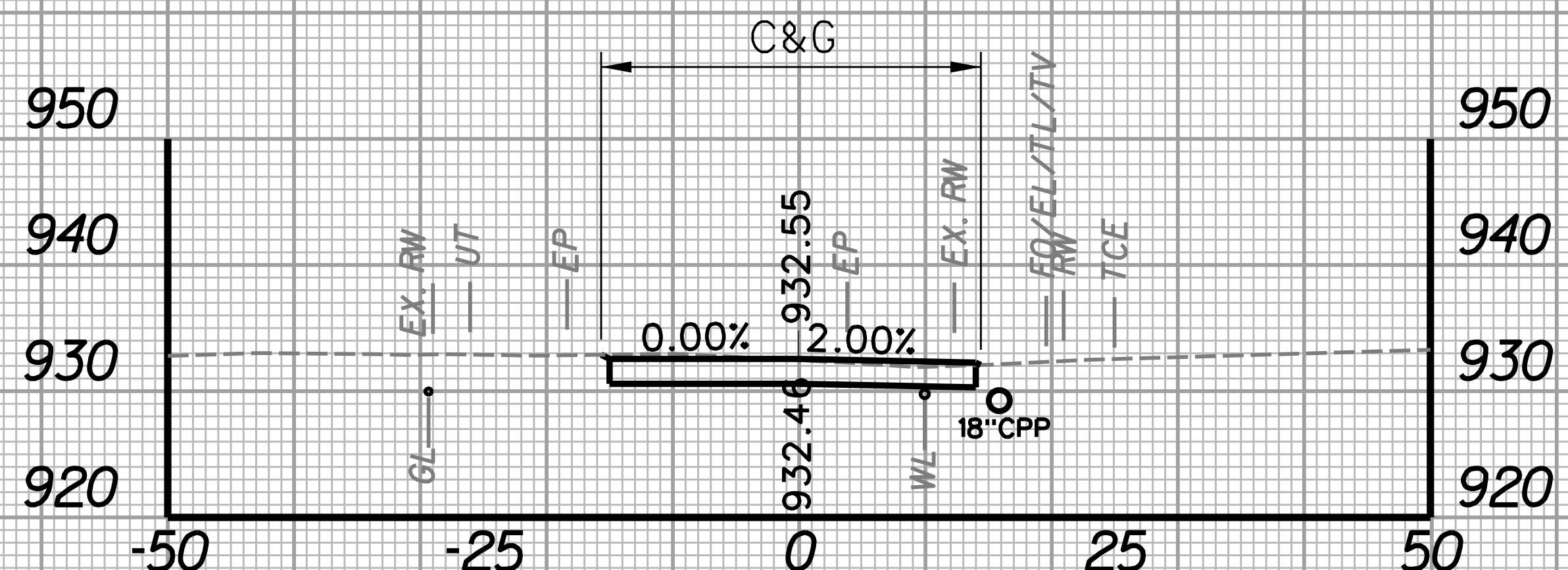
43+75

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
43+50	0.0	0.0		30.1		56.5		0.0		0.0	
	0.0		0.0		751.3		52.3		0.0		0.0
43+75	0.0	0.0		30.0		56.5		0.0		0.0	



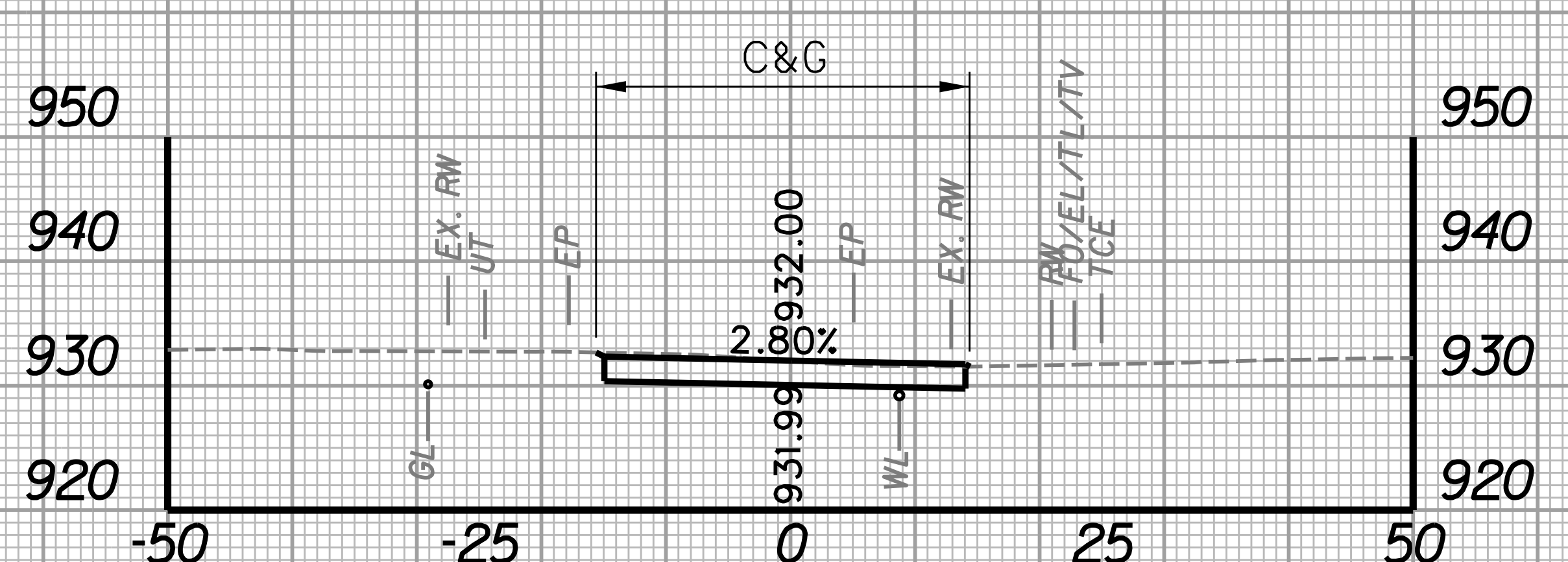
44+25

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
44+00	0.0	0.0		30.0		57.7		0.0		0.0	
	25		0.0		522.5		36.8		0.0		0.0
44+25	0.0	0.0		11.8		21.7		0.0		0.0	



43+50

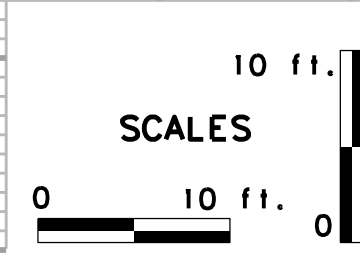
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
43+25	25	0.0		32.4		59.4		0.0		0.0	
	25		0.0		781.3		53.7		0.0		0.0
43+50	0.0	0.0		30.1		56.5		0.0		0.0	



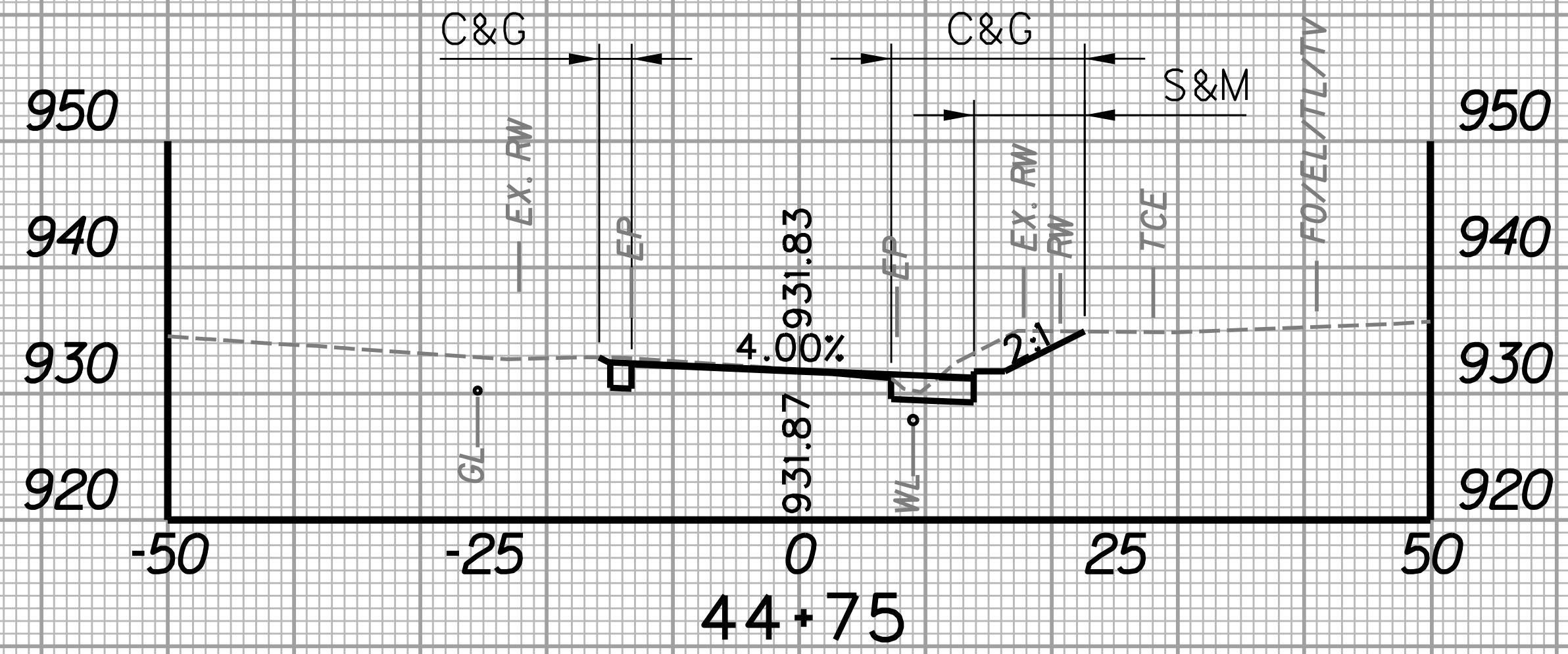
44+00

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
43+75	0.0	0.0		30.0		56.5		0.0		0.0	
	25		0.0		750.0		52.9		0.0		0.0
44+00	0.0	0.0		30.0		57.7		0.0		0.0	

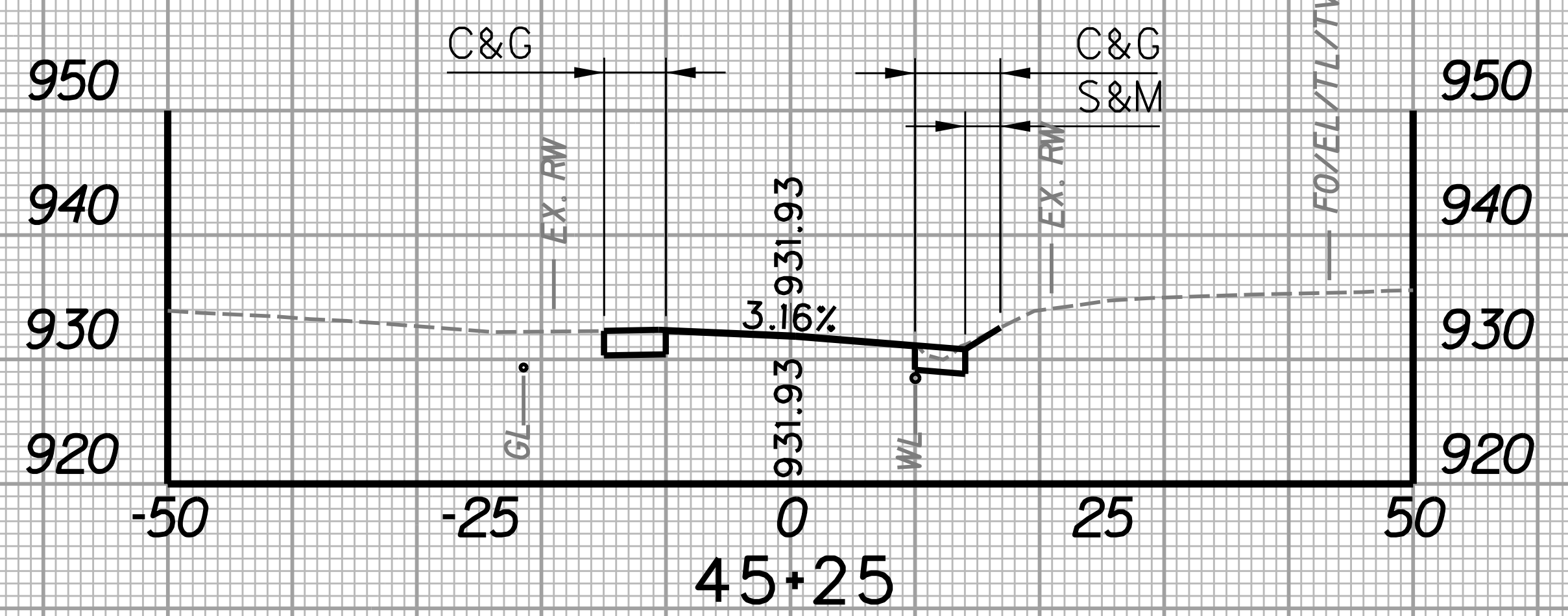
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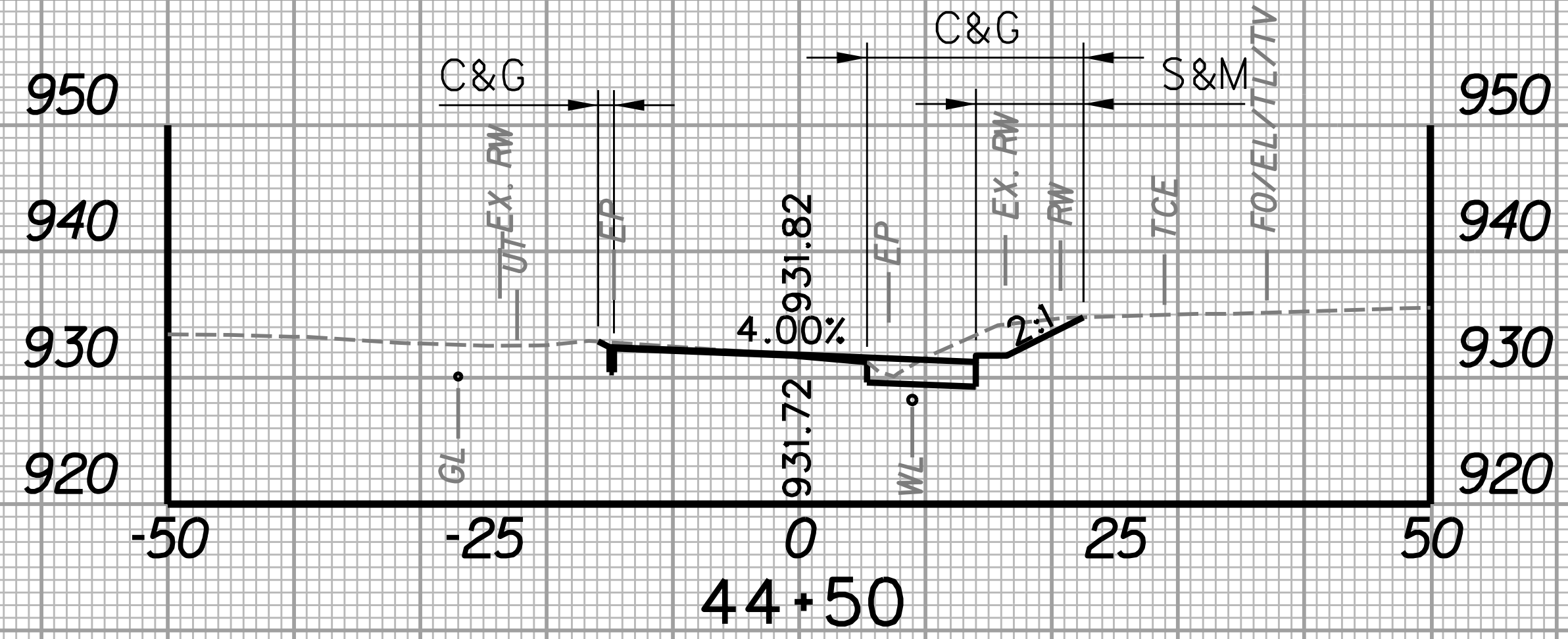
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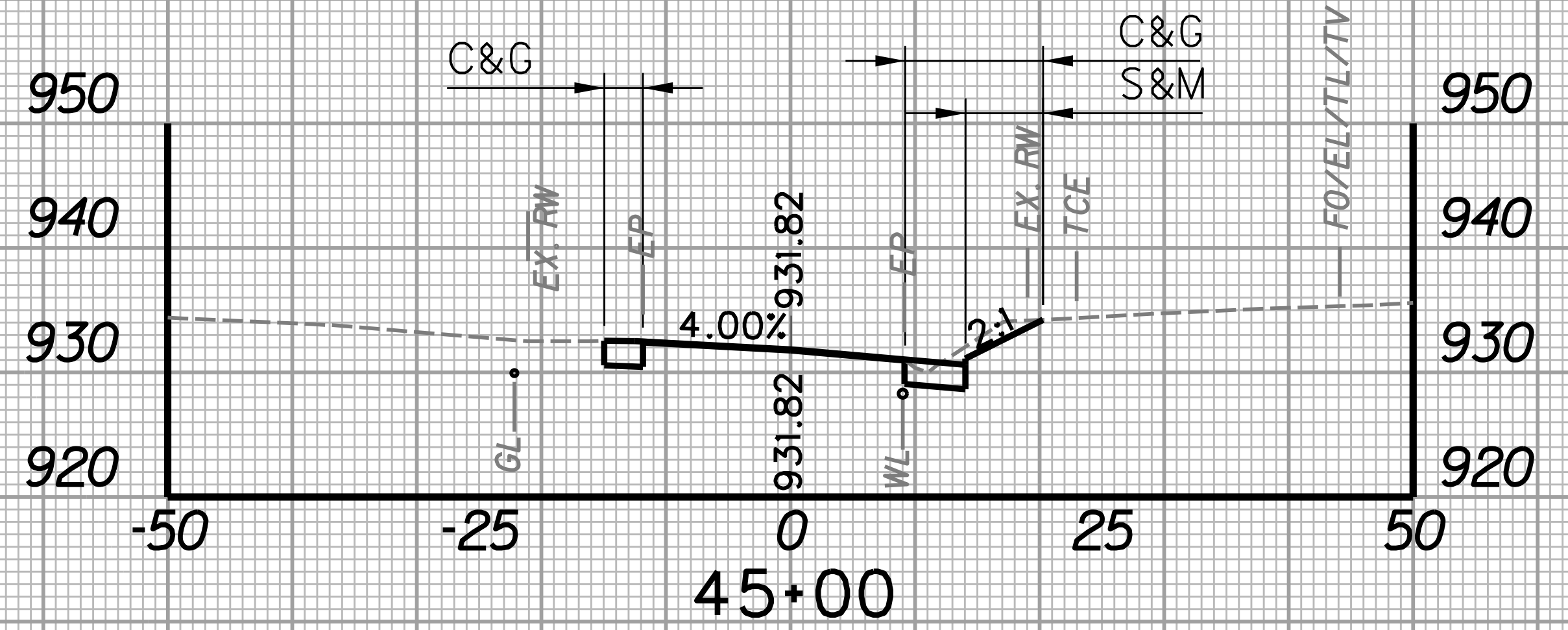
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
44+50		8.5		18.4		31.5		0.0		0.0	
	25		216.3		453.8		28.9		0.0		0.0
44+75		8.8		17.9		30.9		0.0		0.0	



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
45+00		6.3		14.2		21.4		0.0		0.0	
	25		113.8		325.0		17.6		0.0		0.0
45+25		2.8		11.8		16.6		0.0		0.0	

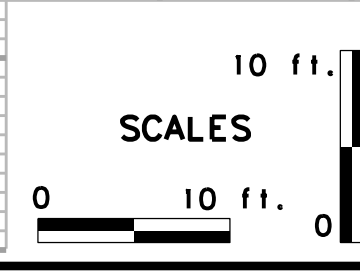


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
44+25		0.0		11.8		21.7		0.0		0.0	
	25		106.3		377.5		24.6		0.0		0.0
44+50		8.5		18.4		31.5		0.0		0.0	

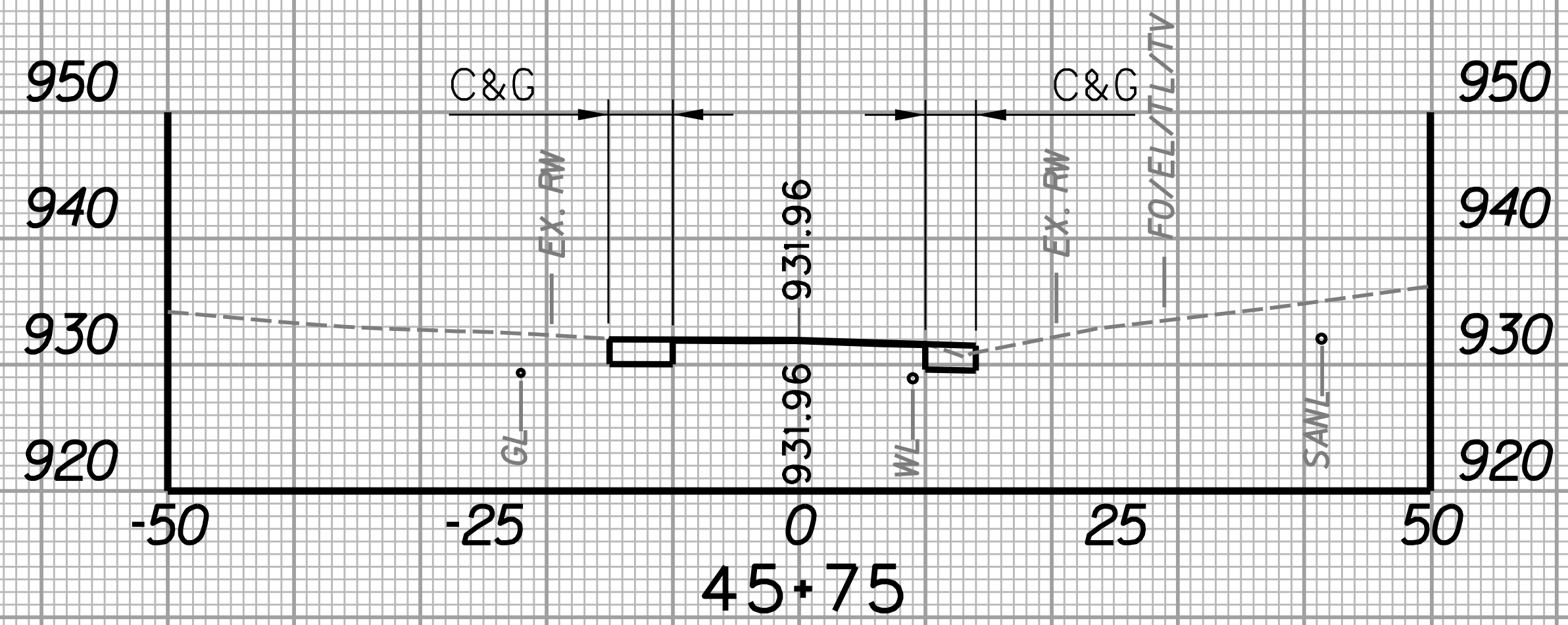


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
44+75		8.8		17.9		30.9		0.0		0.0	
	25		188.8		401.3		24.2		0.0		0.0
45+00		6.3		14.2		21.4		0.0		0.0	

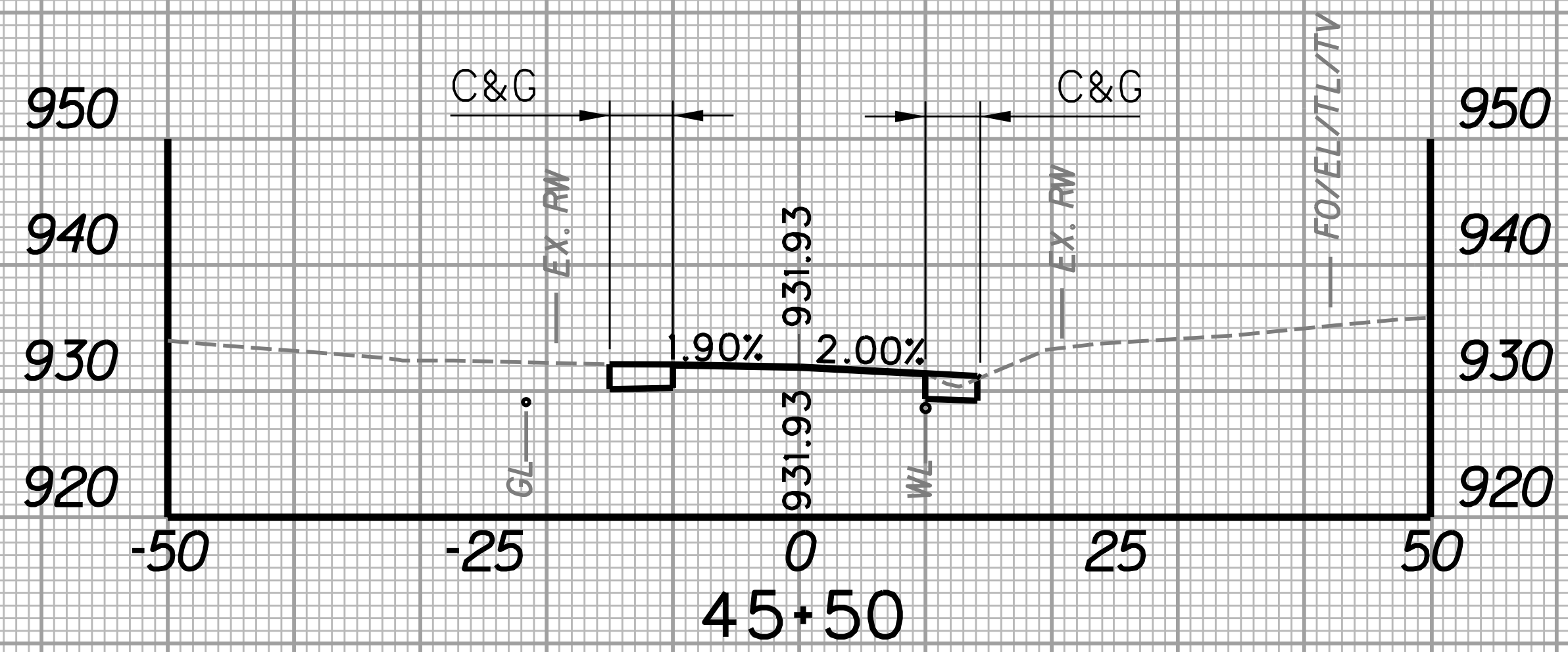
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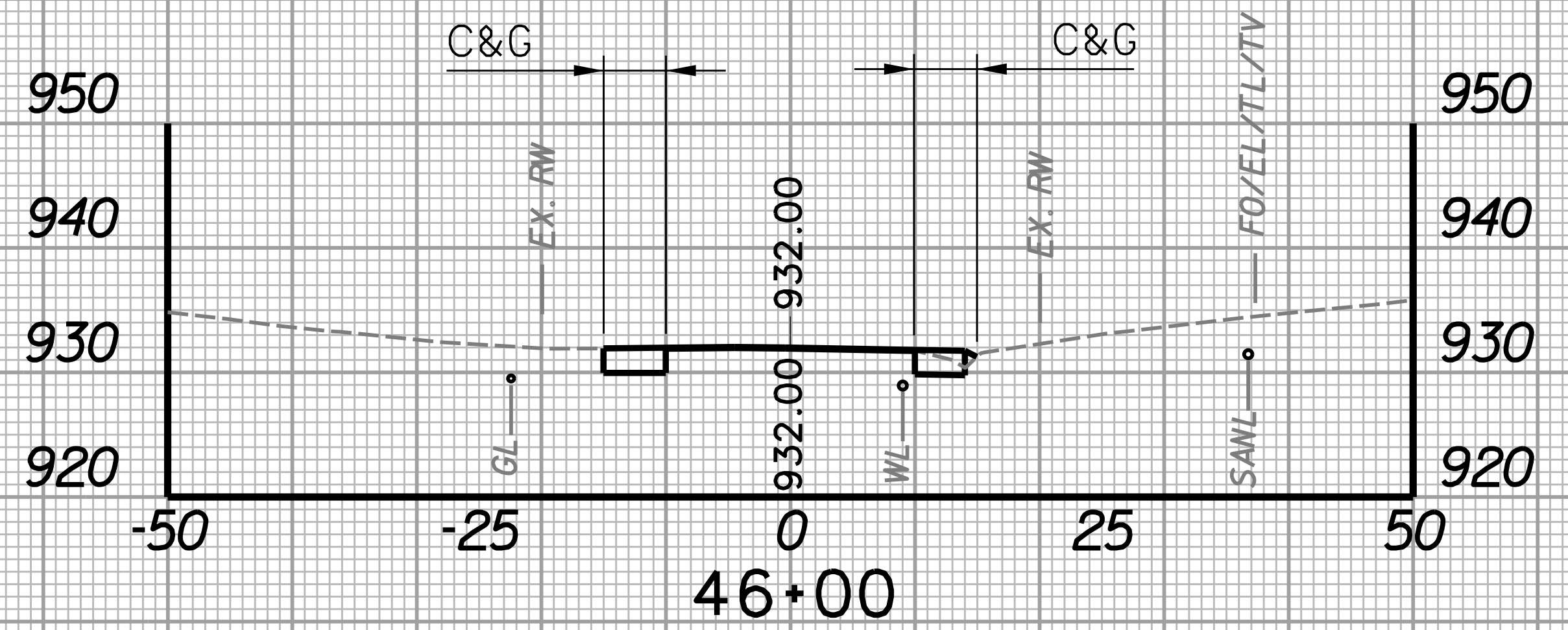
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
45+50		0.0		9.3		16.5		0.0		0.0	
	25		0.0		230.0		15.2		0.0		0.0
45+75		0.0		9.1		16.4		0.0		0.0	

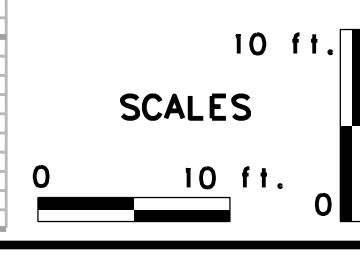


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
45+25		2.8		11.8		16.6		0.0		0.0	
	25		35.0		263.8		15.3		0.0		0.0
45+50		0.0		9.3		16.5		0.0		0.0	

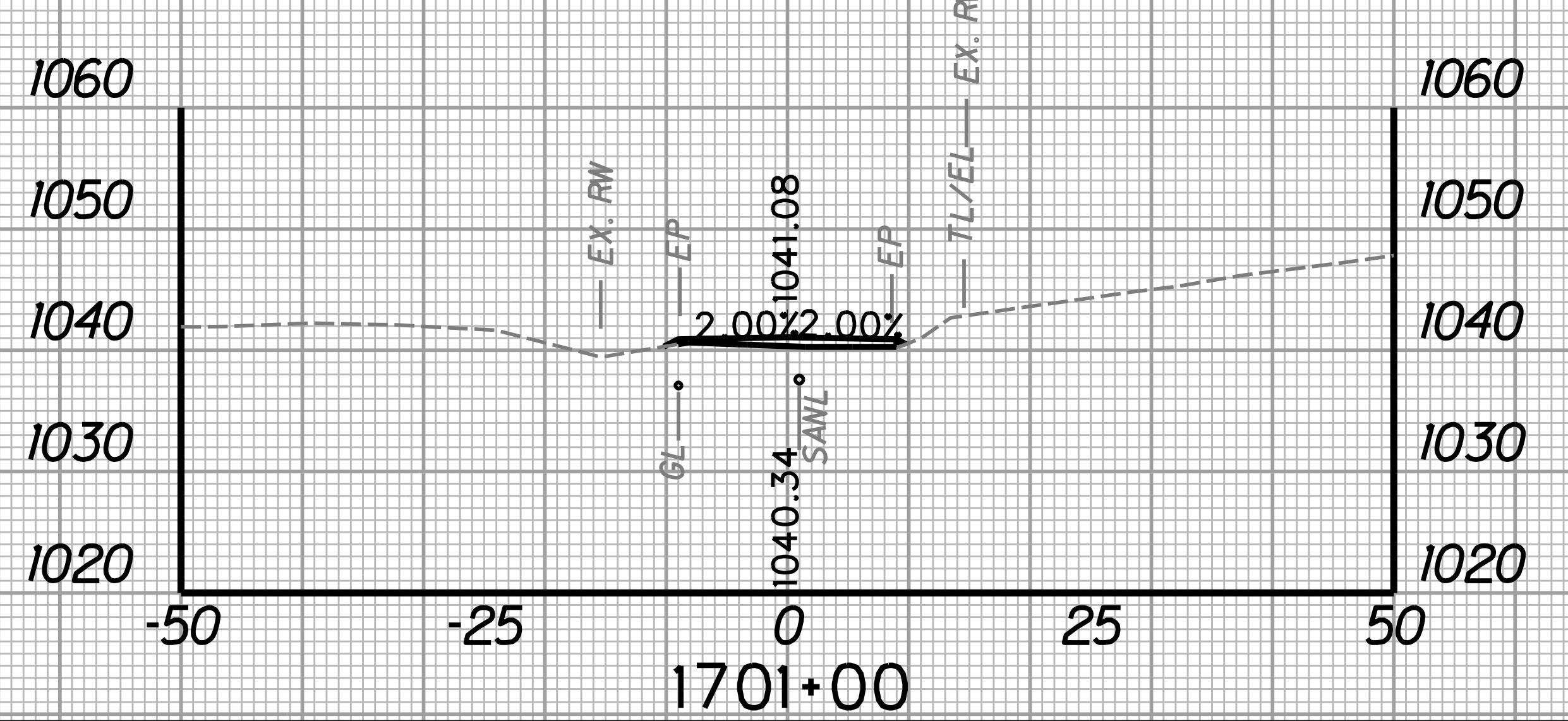
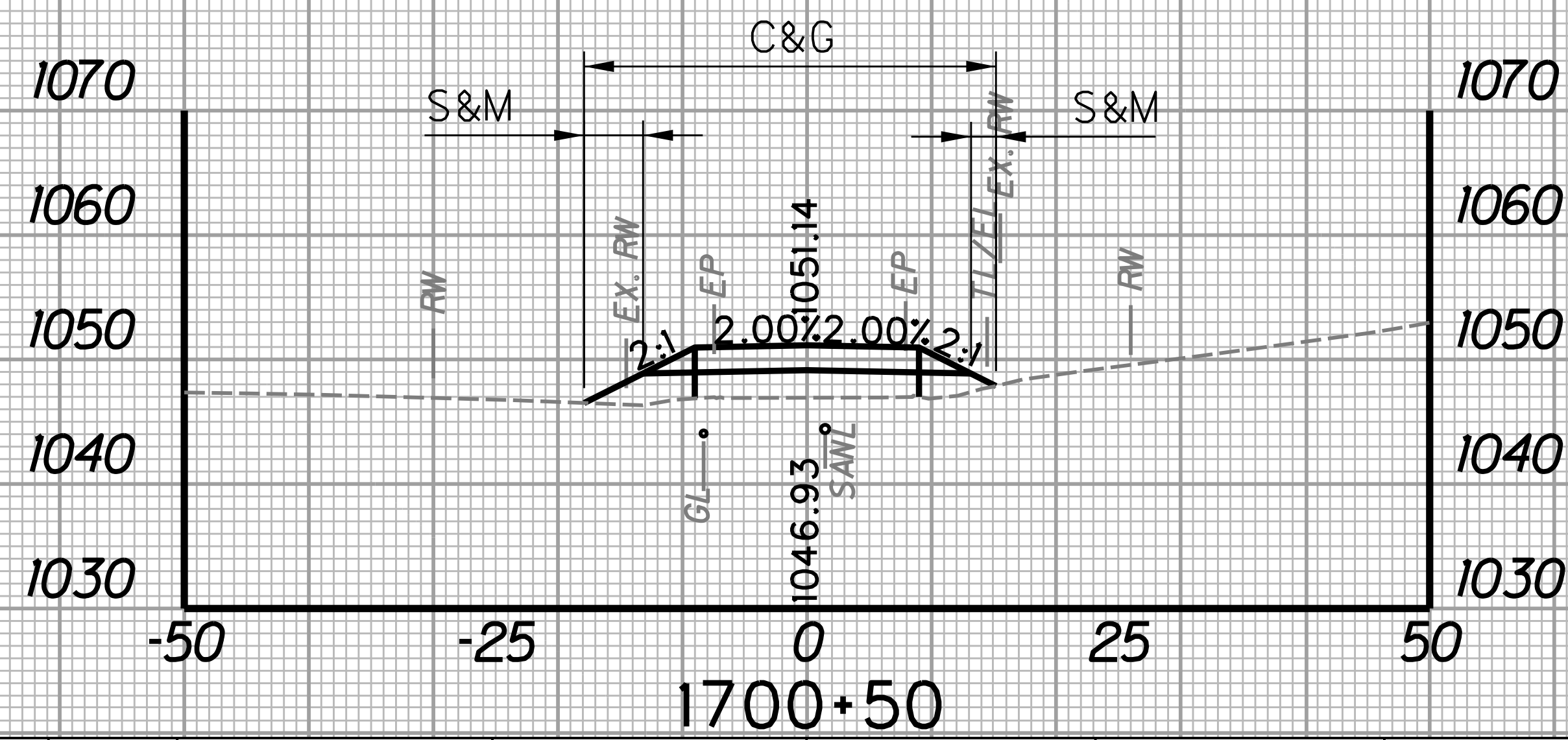


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
45+75		0.0		9.1		16.4		0.0		0.0	
	25		0.0		240.0		15.1		0.0		0.0
46+00		0.0		10.1		16.2		0.0		0.0	

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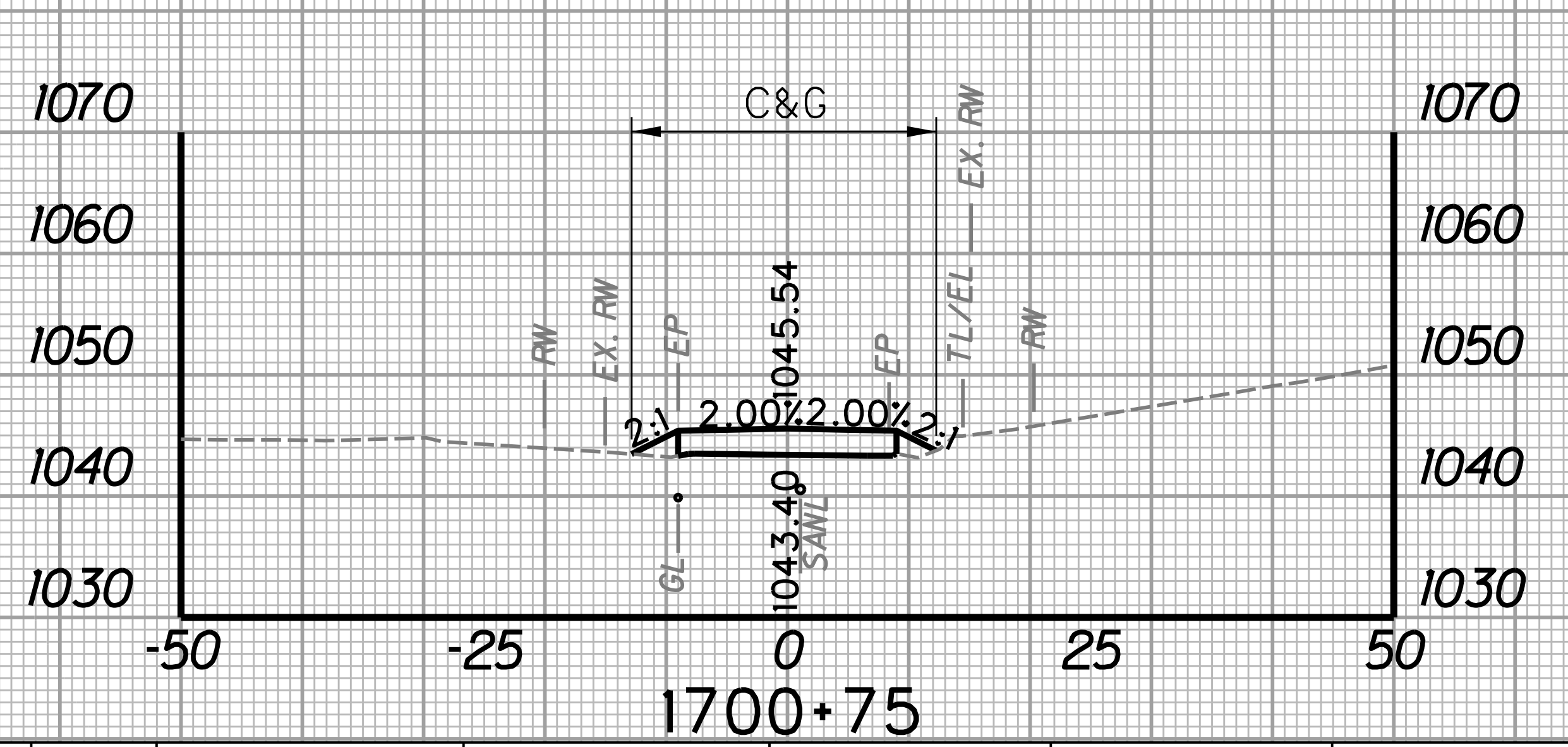
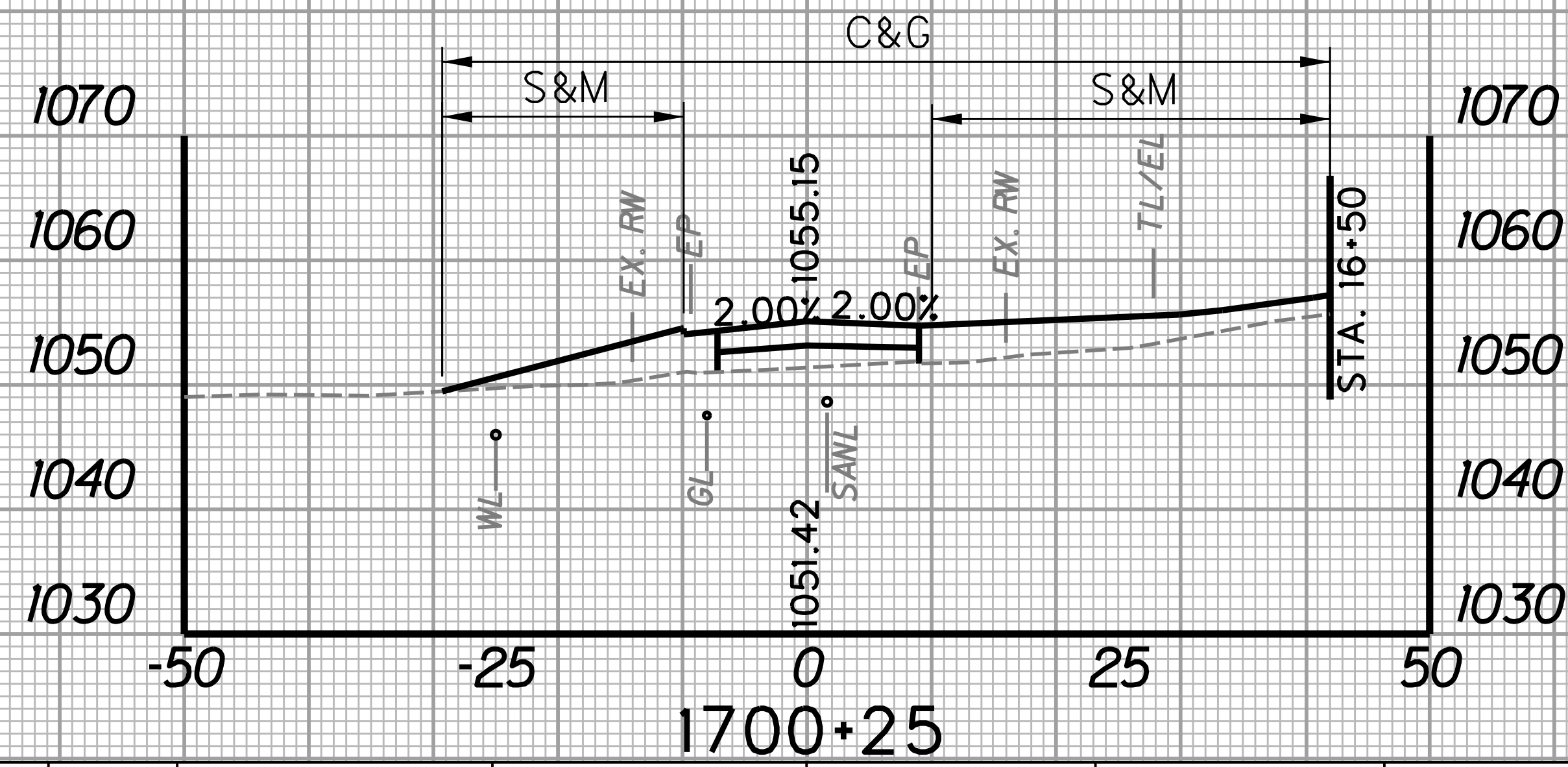


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STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
1700+25		51.4		71.3		0.0		134.5		0.0	
	25		727.5		1305.0		0.0		91.6		0.0
1700+50		6.8		33.1		0.0		63.4		0.0	

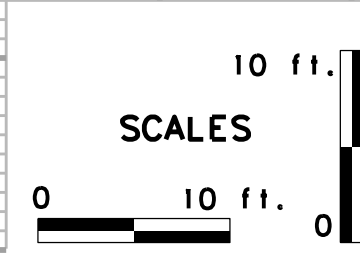
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
1700+75		0.0		25.1		0.0		0.0		0.0	
	25		0.0		313.8		0.0		0.0		0.0
1701+00		0.0		6.5		1.0		0.0		0.0	



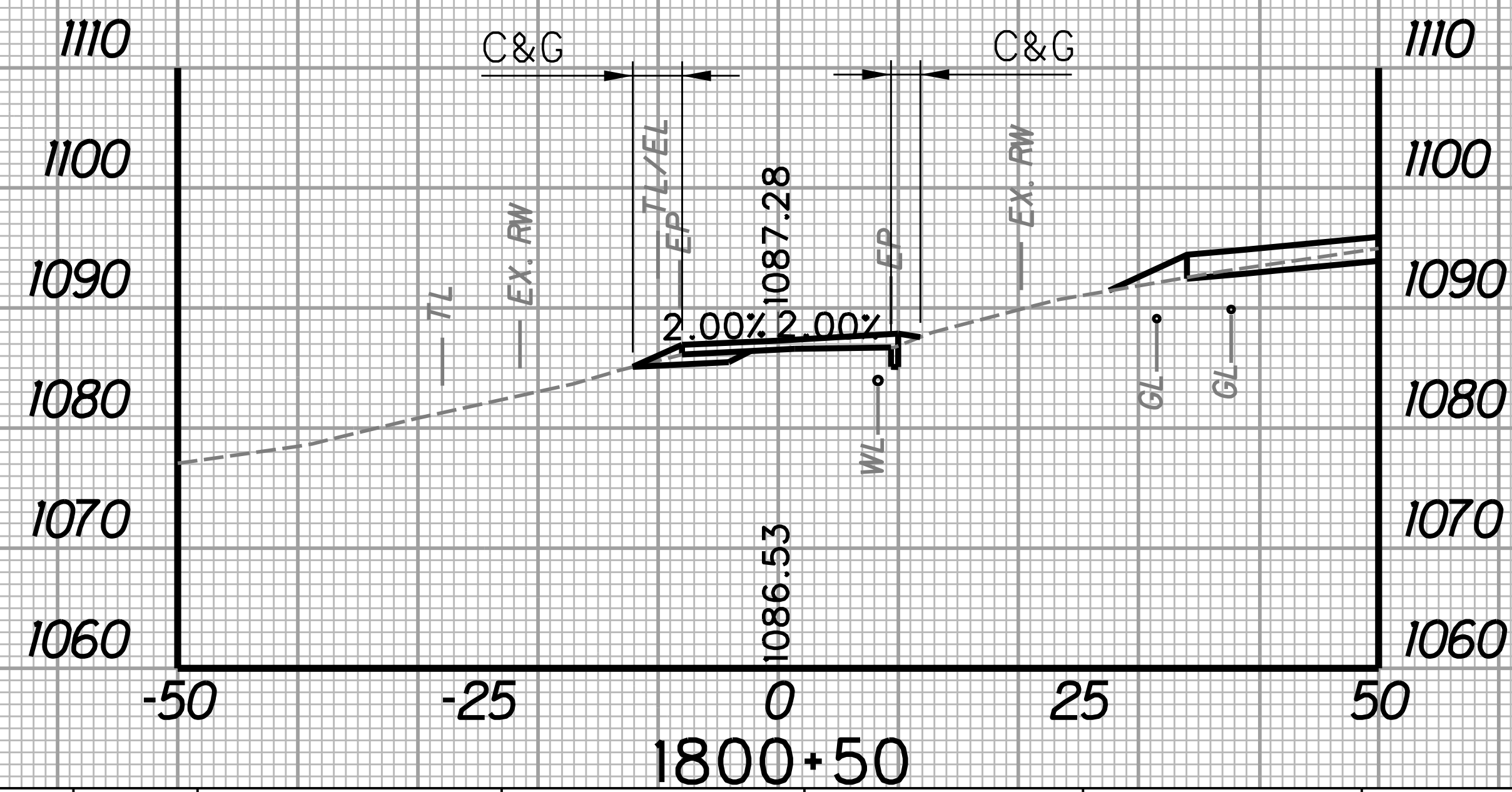
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
1700+00		0.0		0.0		0.0		0.0		0.0	
	25		642.5		1020.0		0.0		62.3		0.0
1700+25		51.4		71.3		0.0		134.5		0.0	

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
1700+50		6.8		33.1		0.0		63.4		0.0	
	25		85.1		727.5		0.5		29.4		0.0
1700+75		0.0		25.1		0.0		0.0		0.0	

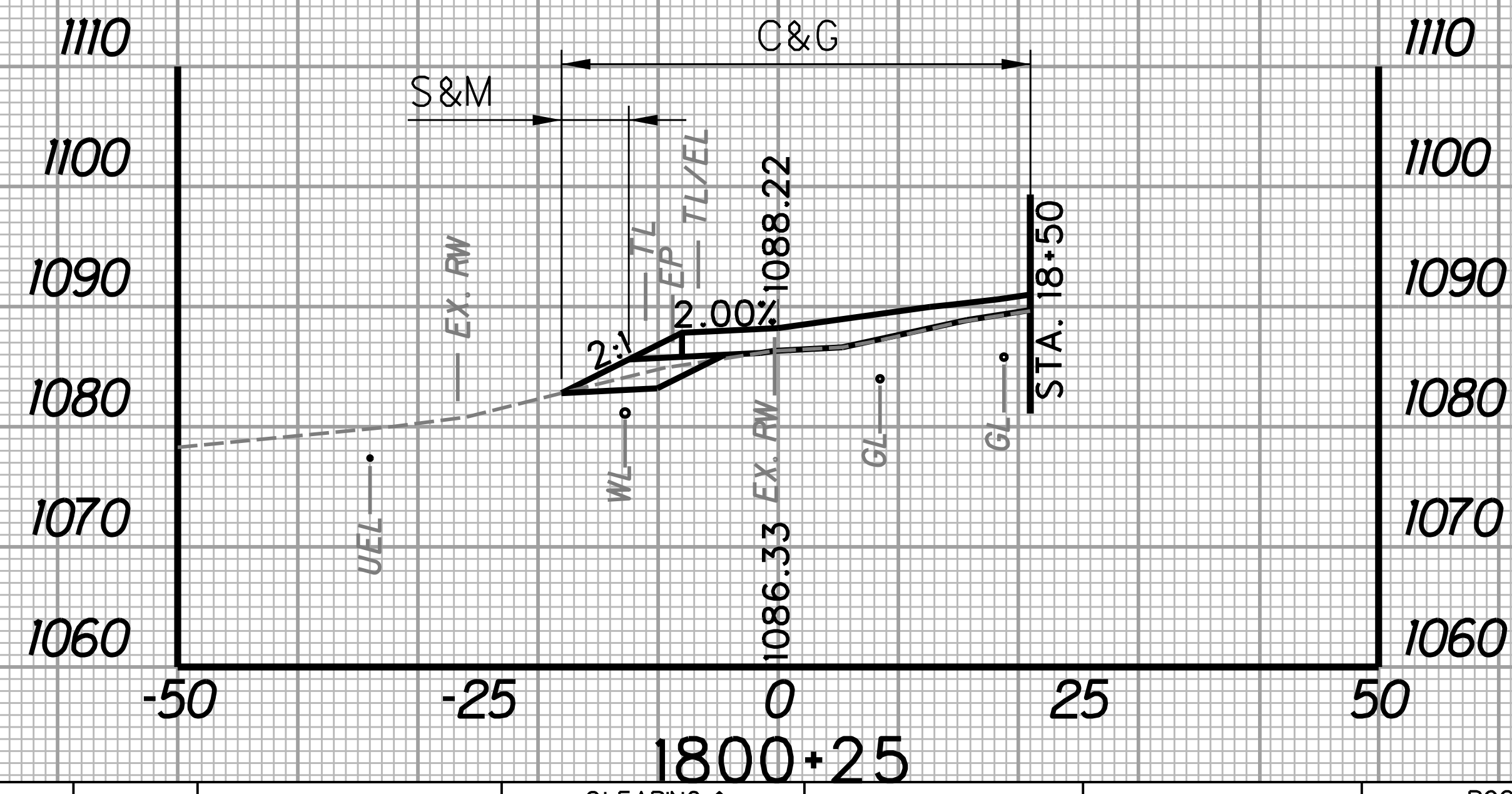
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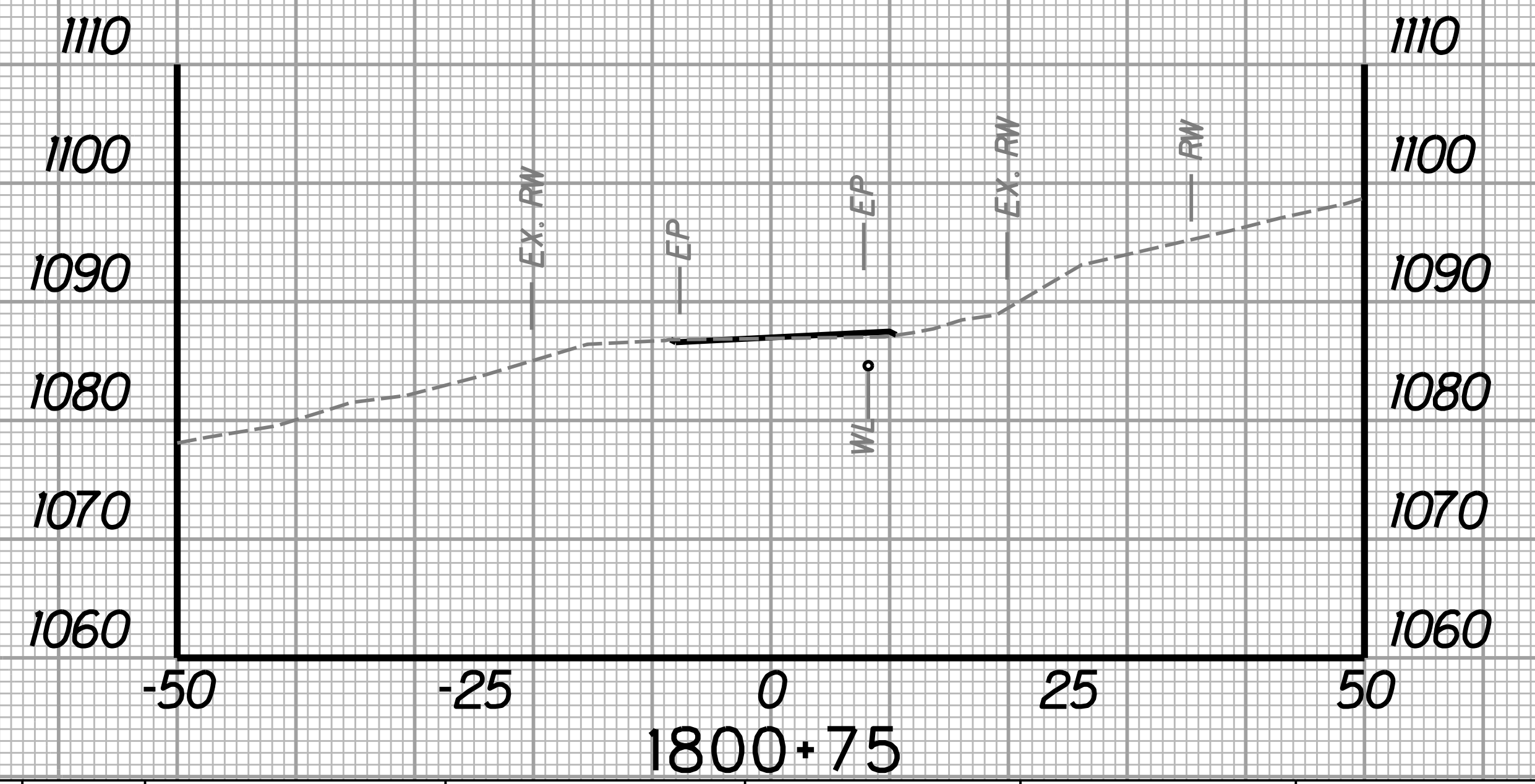
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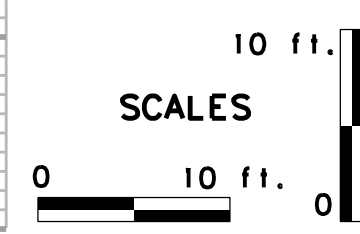
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
1800+25		5.6		39.1		10.1		10.6		0.0	
	25		70.0		570.0		7.7		4.9		0.0
1800+50		0.0		6.5		6.6		0.0		0.0	



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
1800+00		0.0		0.0		0.0		0.0		0.0	
	25		70.0		488.8		4.7		4.9		0.0
1800+25		5.6		39.1		10.1		10.6		0.0	



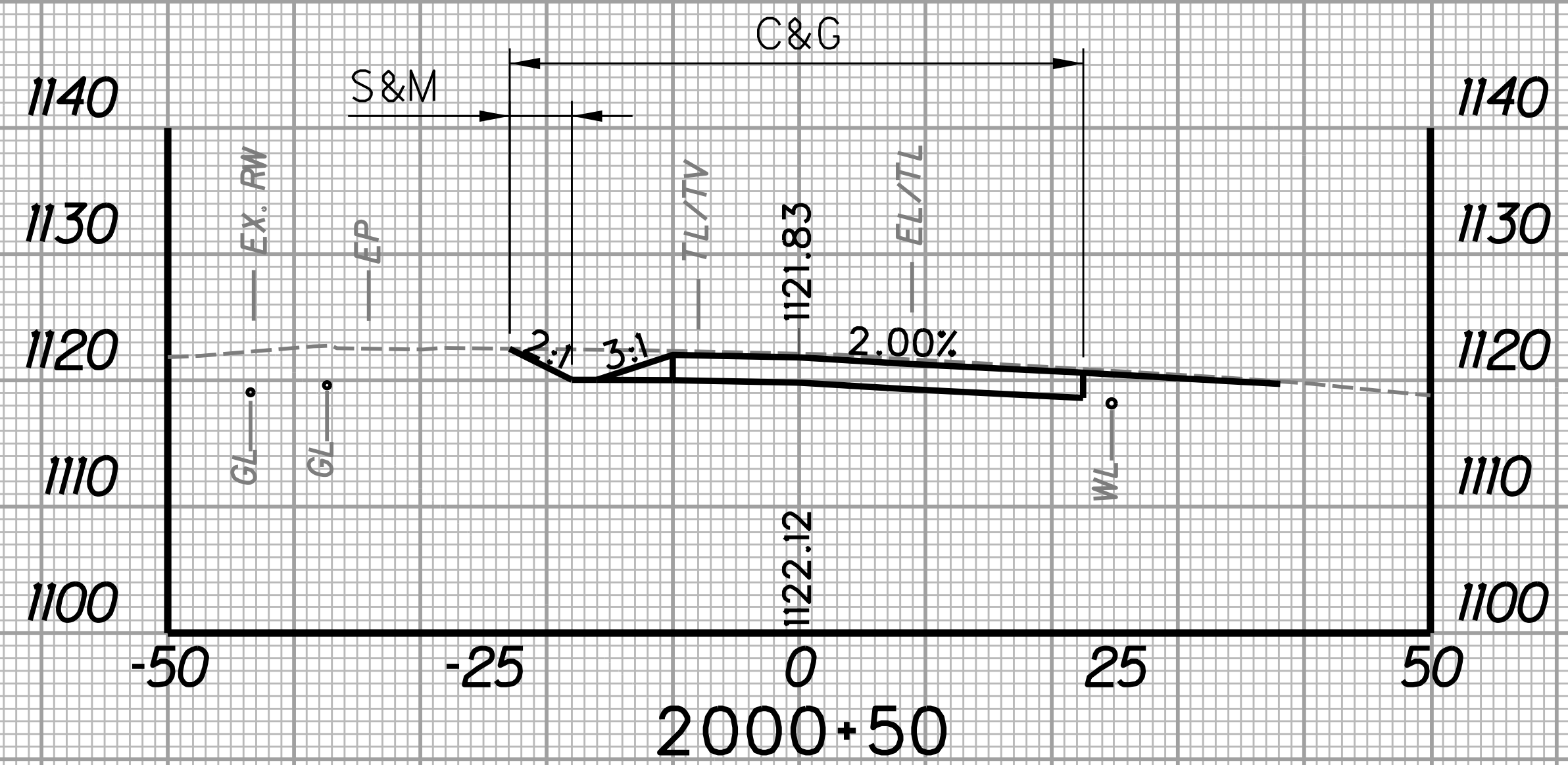
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
1800+50		0.0		6.5		6.6		0.0		0.0	
	25		0.0		81.3		3.3		0.0		0.0
1800+75		0.0		0.0		0.5		0.0		0.0	



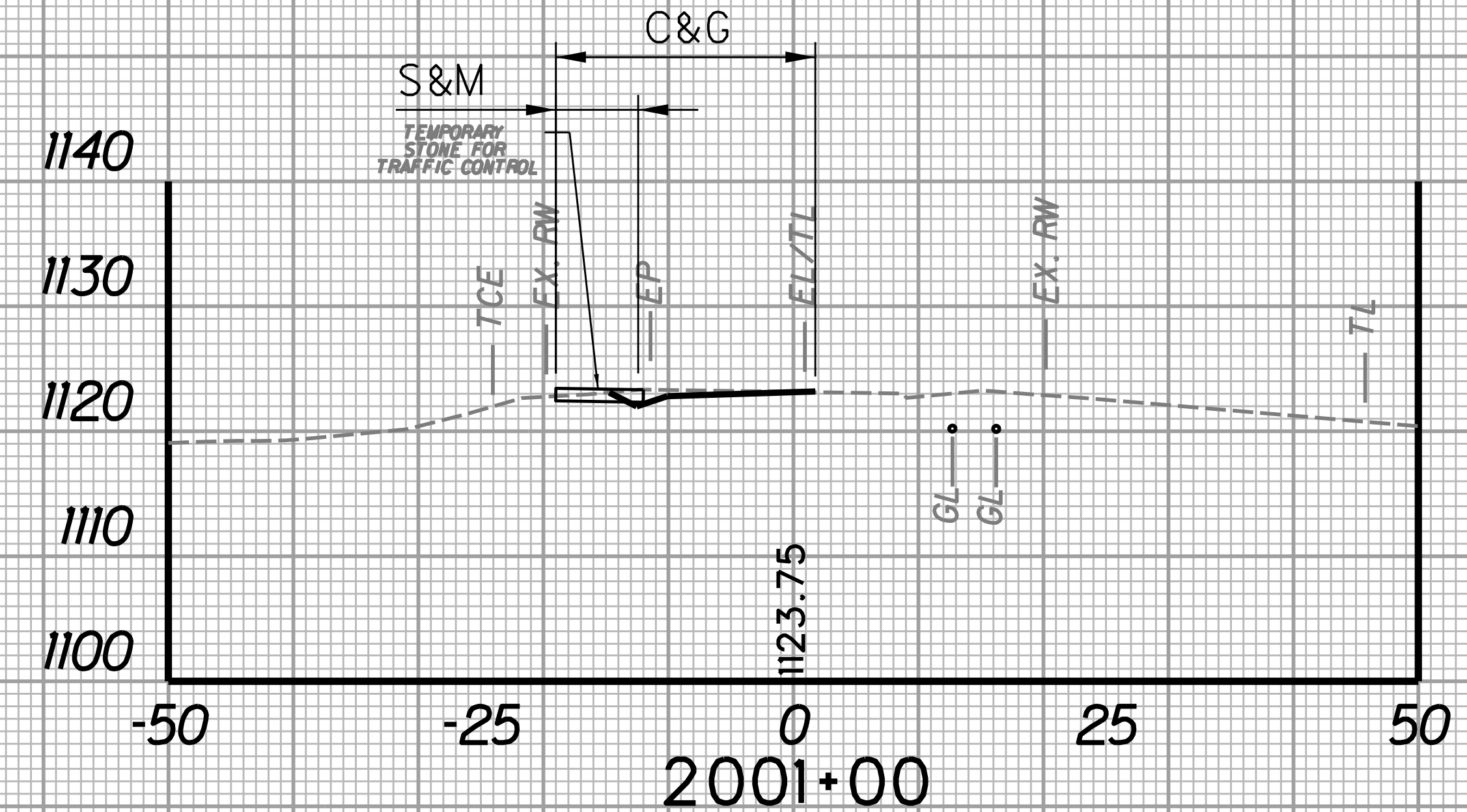
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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
CROSS-SECTION SHEET
CLEARVIEW AVE

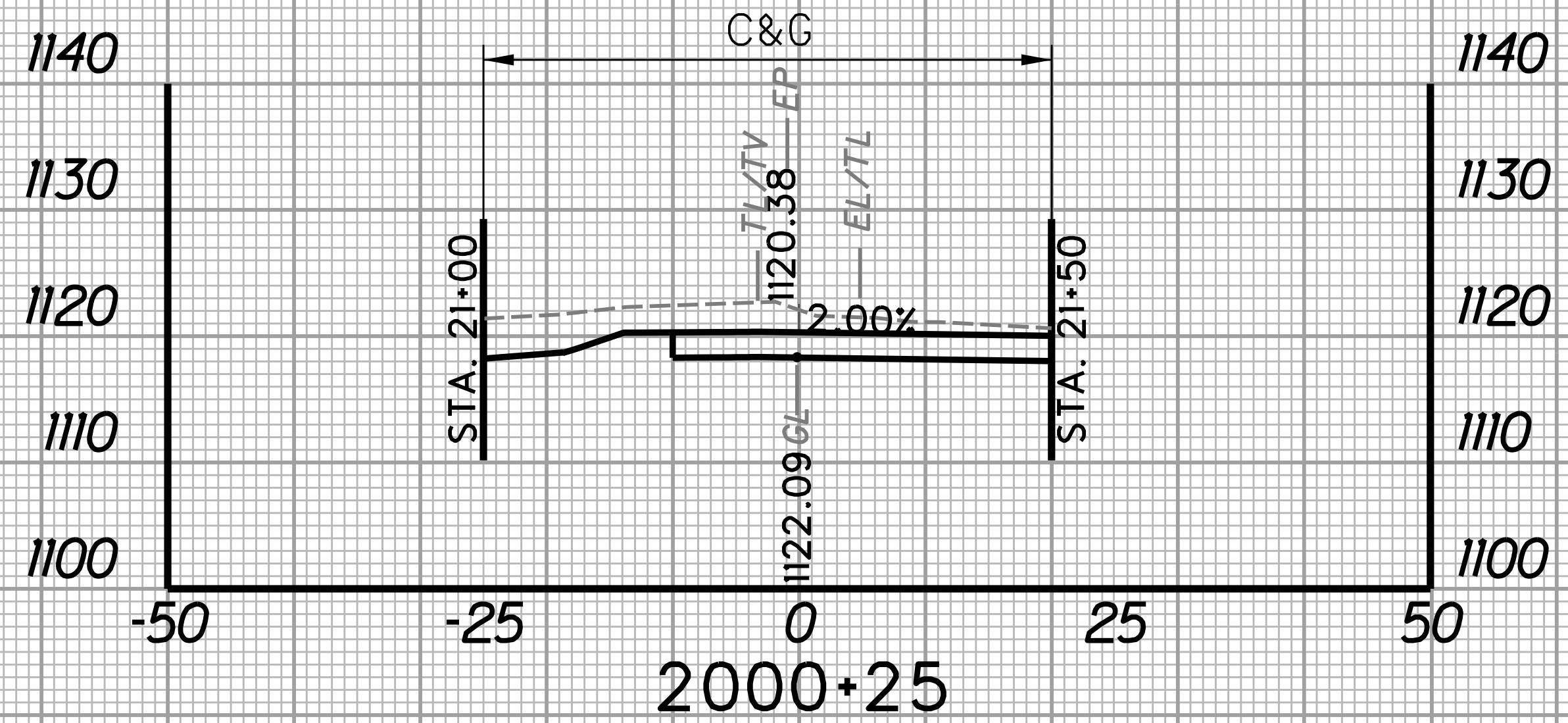
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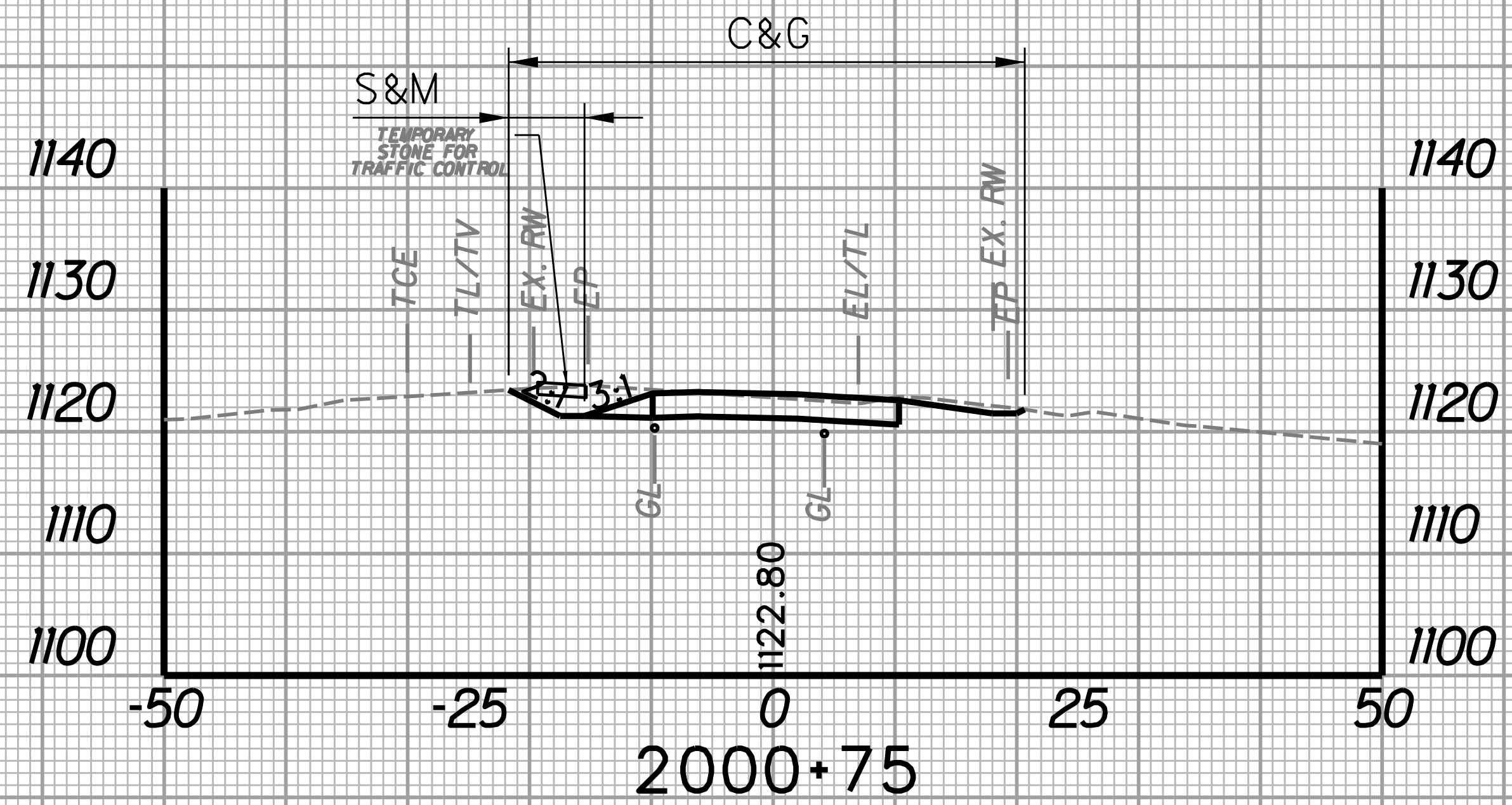
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
2000+25		0.0		45.0		142.3		0.0		0.0	
2000+50	25	4.9	61.3	45.4	1130.0		114.5	0.0	0.0	0.0	0.0



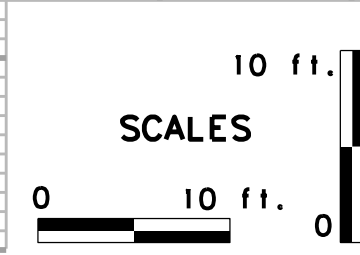
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
2000+75		6.3		42.3		65.5		0.0		0.0	
2001+00	25	6.6	161.3	20.8	788.8	9.4	34.7	0.0	0.0	0.0	0.0



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
2000+00		0.0		0.0		0.0		0.0		0.0	
2000+25	25	0.0	0.0	45.0	562.5	142.3	65.9	0.0	0.0	0.0	0.0

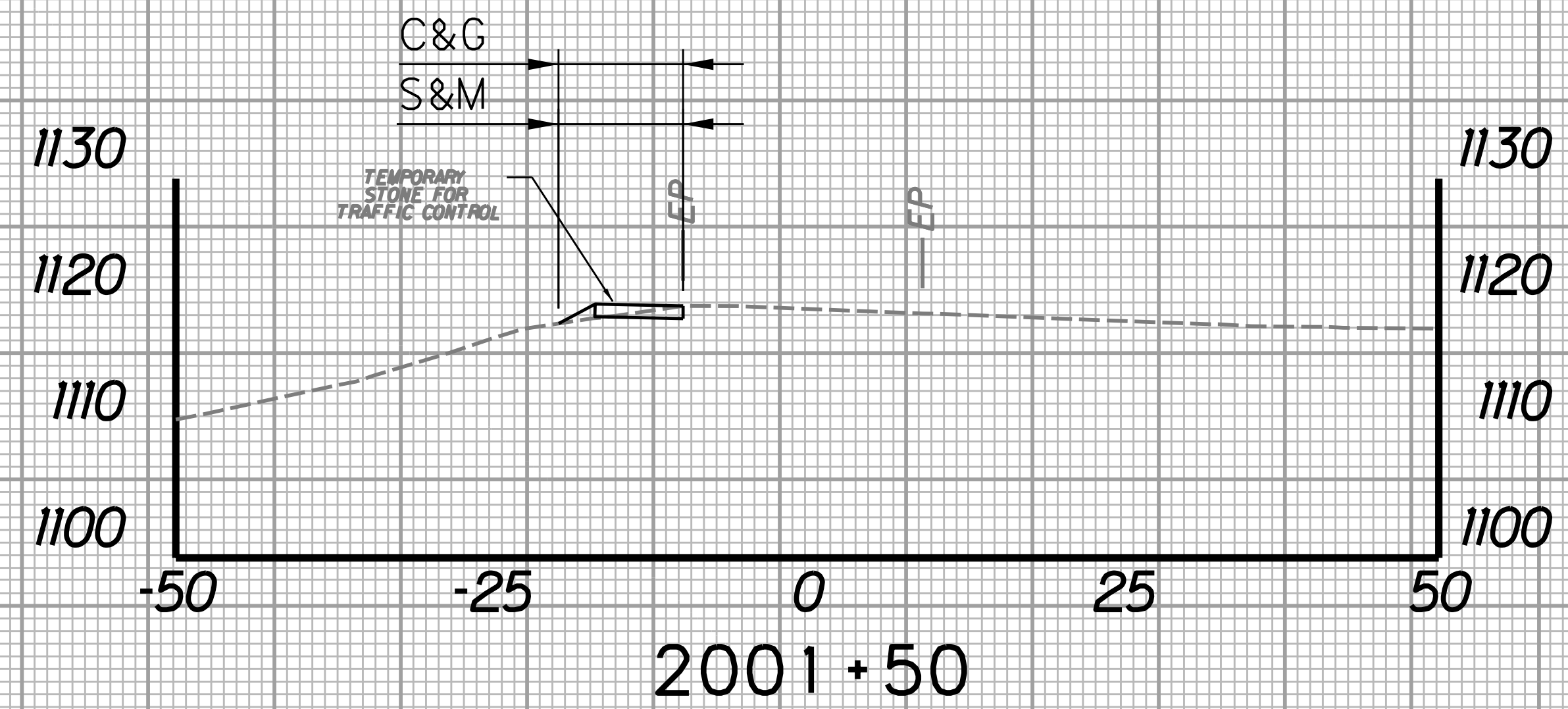


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
2000+50		4.9		45.4		105.1		0.0		0.0	
2000+75	25	6.3	140.0	42.3	1096.3	65.5	79.0	0.0	4.9	0.0	0.0



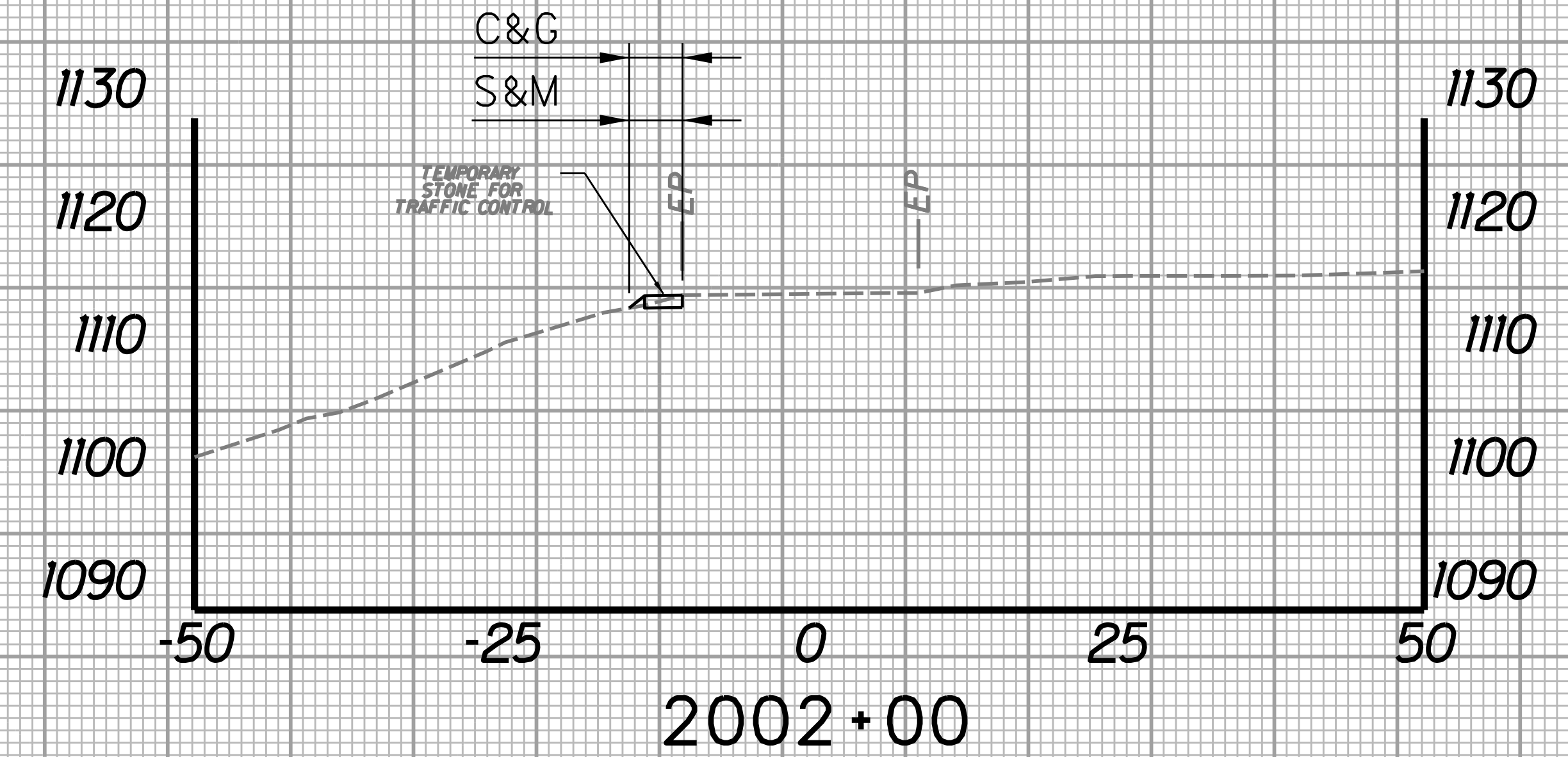
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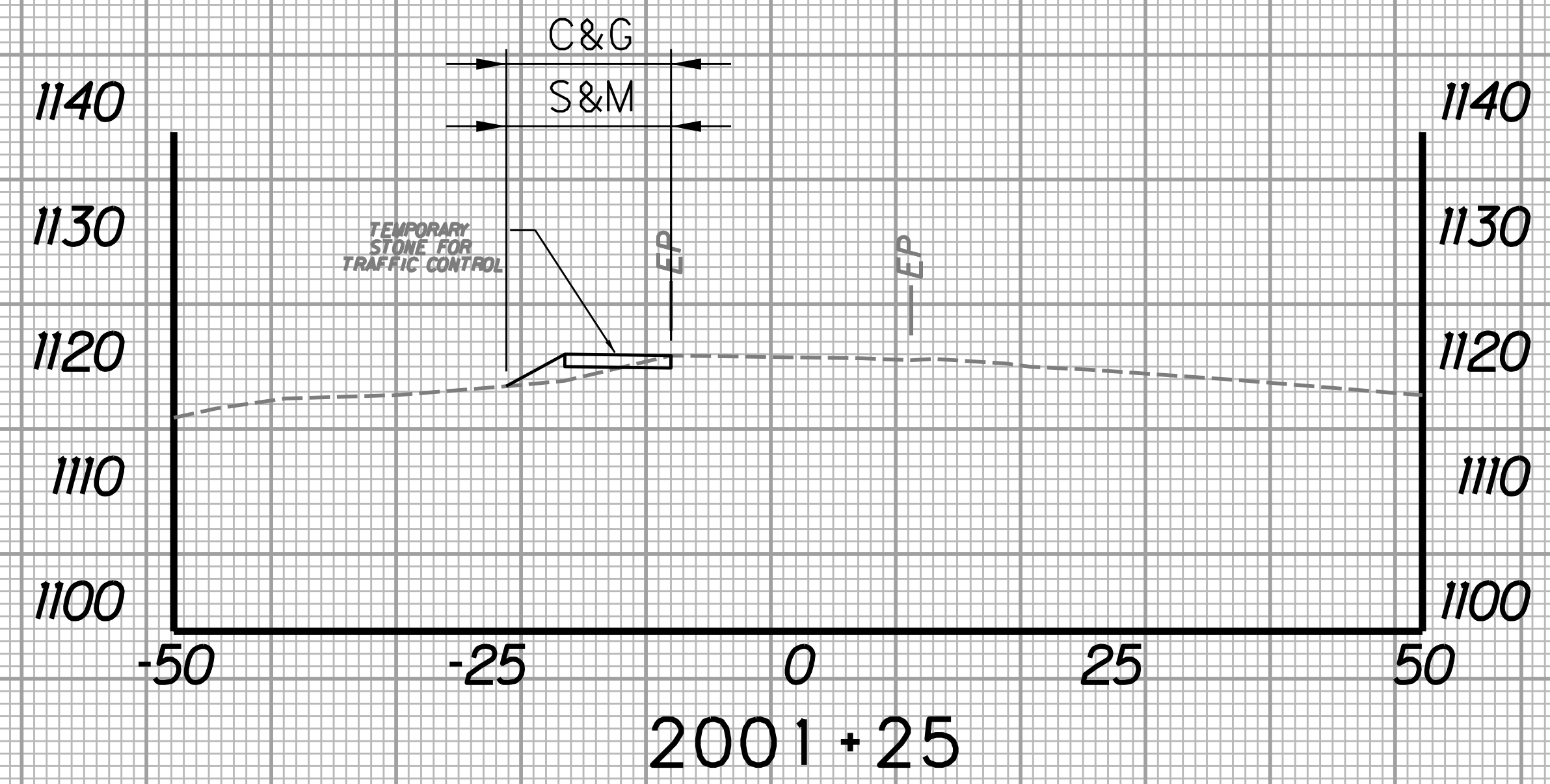
2001+50

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
2001+25		13.2		13.2		1.9		0.0		0.0	
	25		287.5		287.5		2.2		0.0		0.0
2001+50		9.8		9.8		2.9		0.0		0.0	



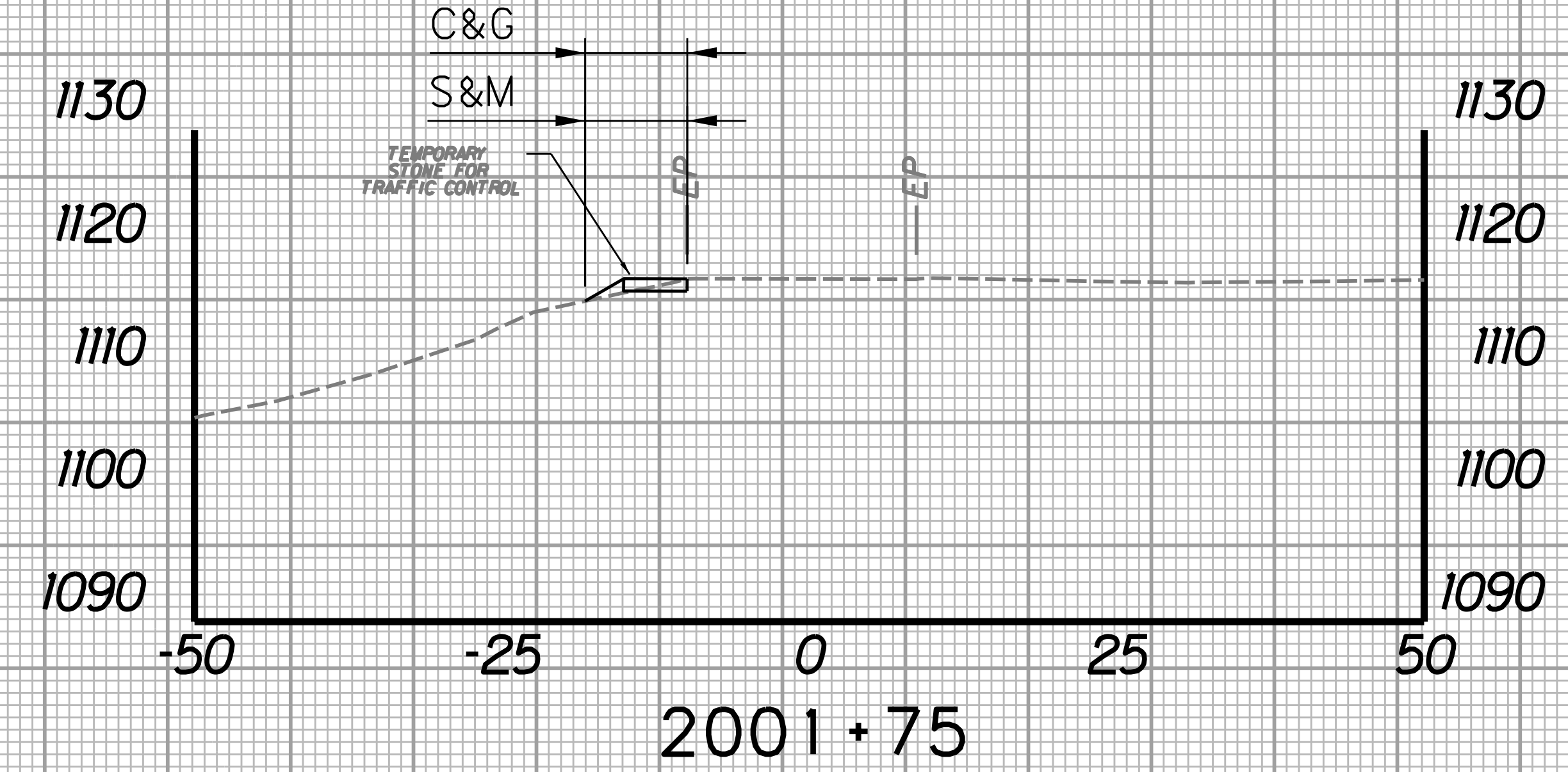
2002+00

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
2001+75		8.3		8.3		2.2		0.0		0.0	
	25		157.5		157.5		1.9		0.0		0.0
2002+00		4.3		4.3		1.9		0.0		0.0	



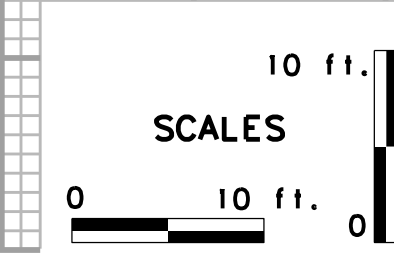
2001+25

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
2001+00		6.6		20.8		9.4		0.0		0.0	
	25		247.5		425.0		5.2		0.0		0.0
2001+25		13.2		13.2		1.9		0.0		0.0	



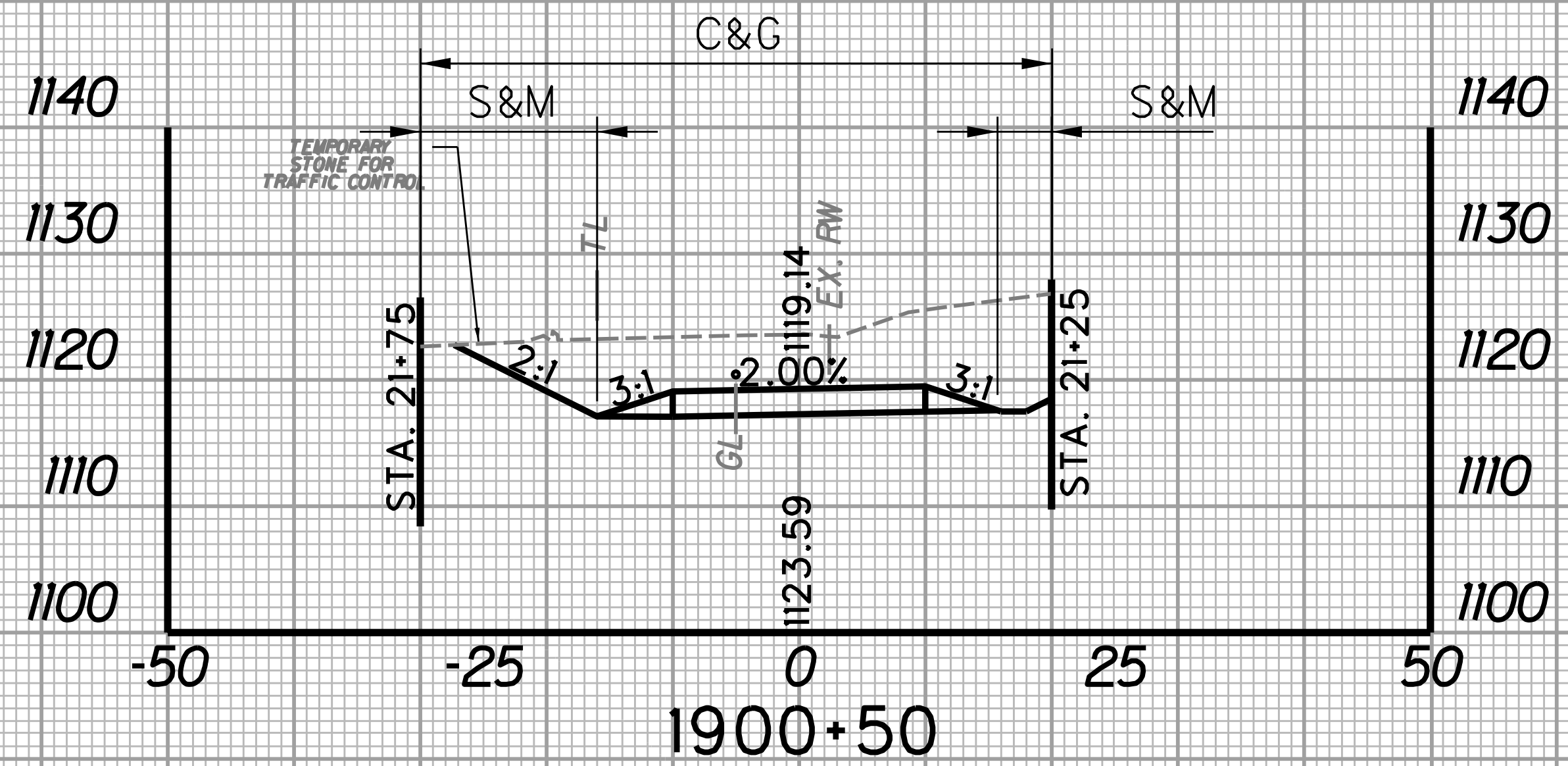
2001+75

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
2001+50		9.8		9.8		2.9		0.0		0.0	
	25		226.3		226.3		2.4		0.0		0.0
2001+75		8.3		8.3		2.2		0.0		0.0	

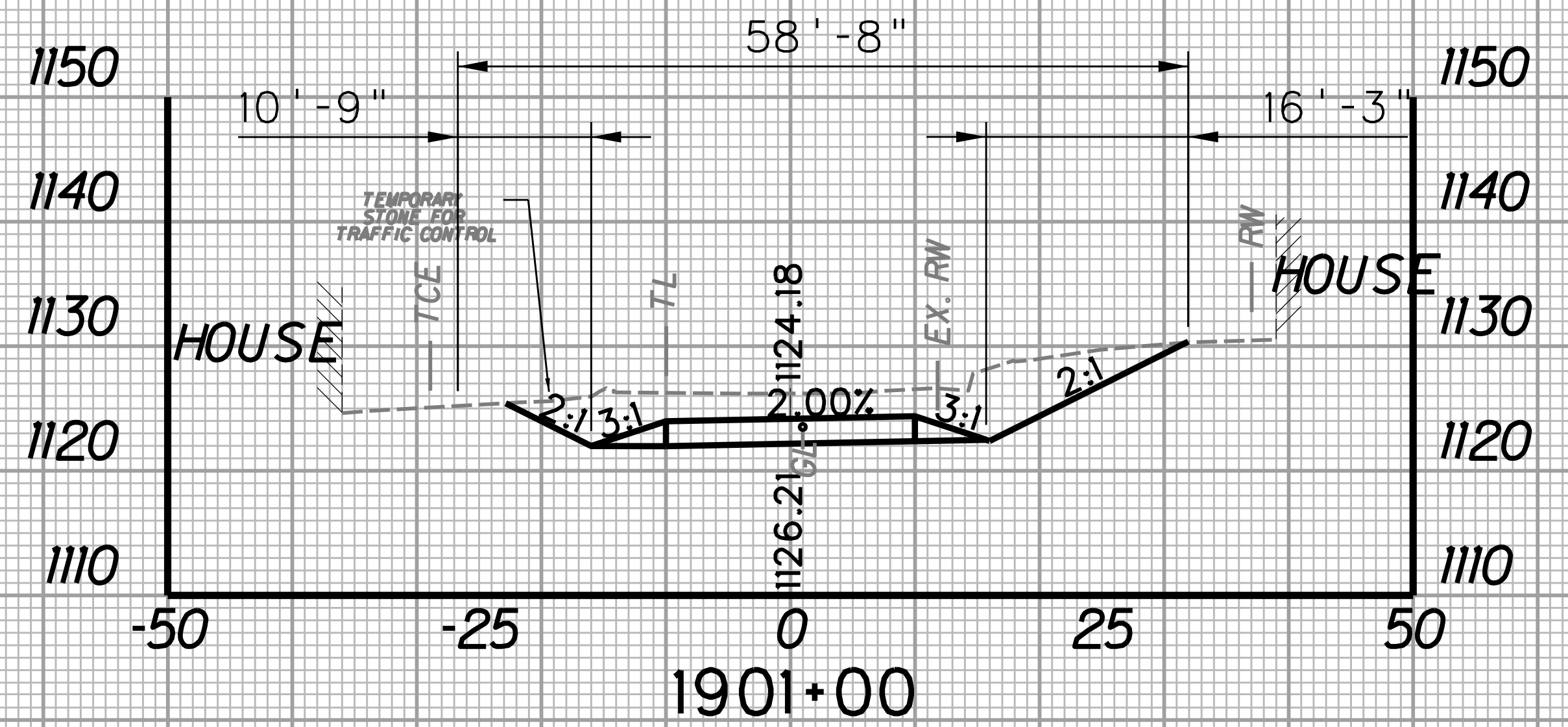


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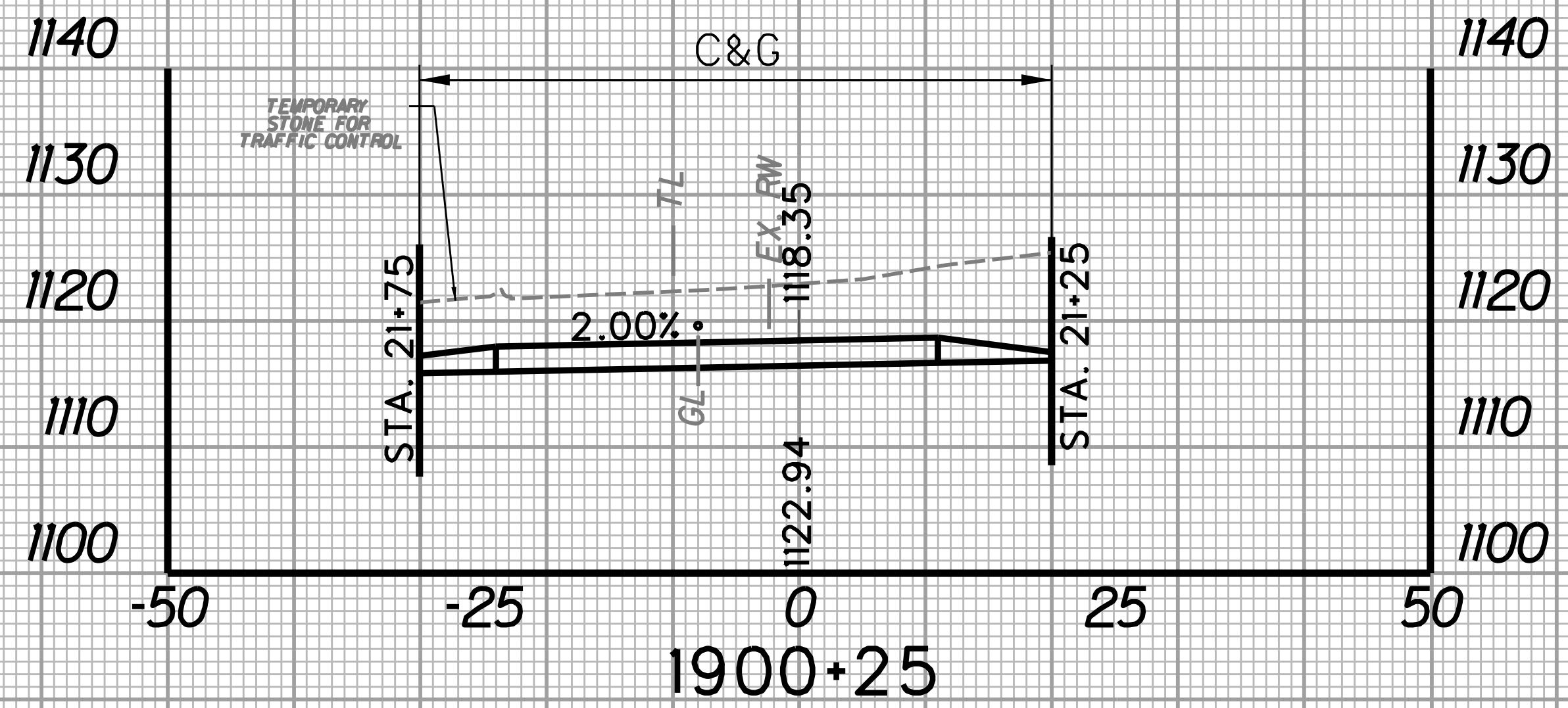
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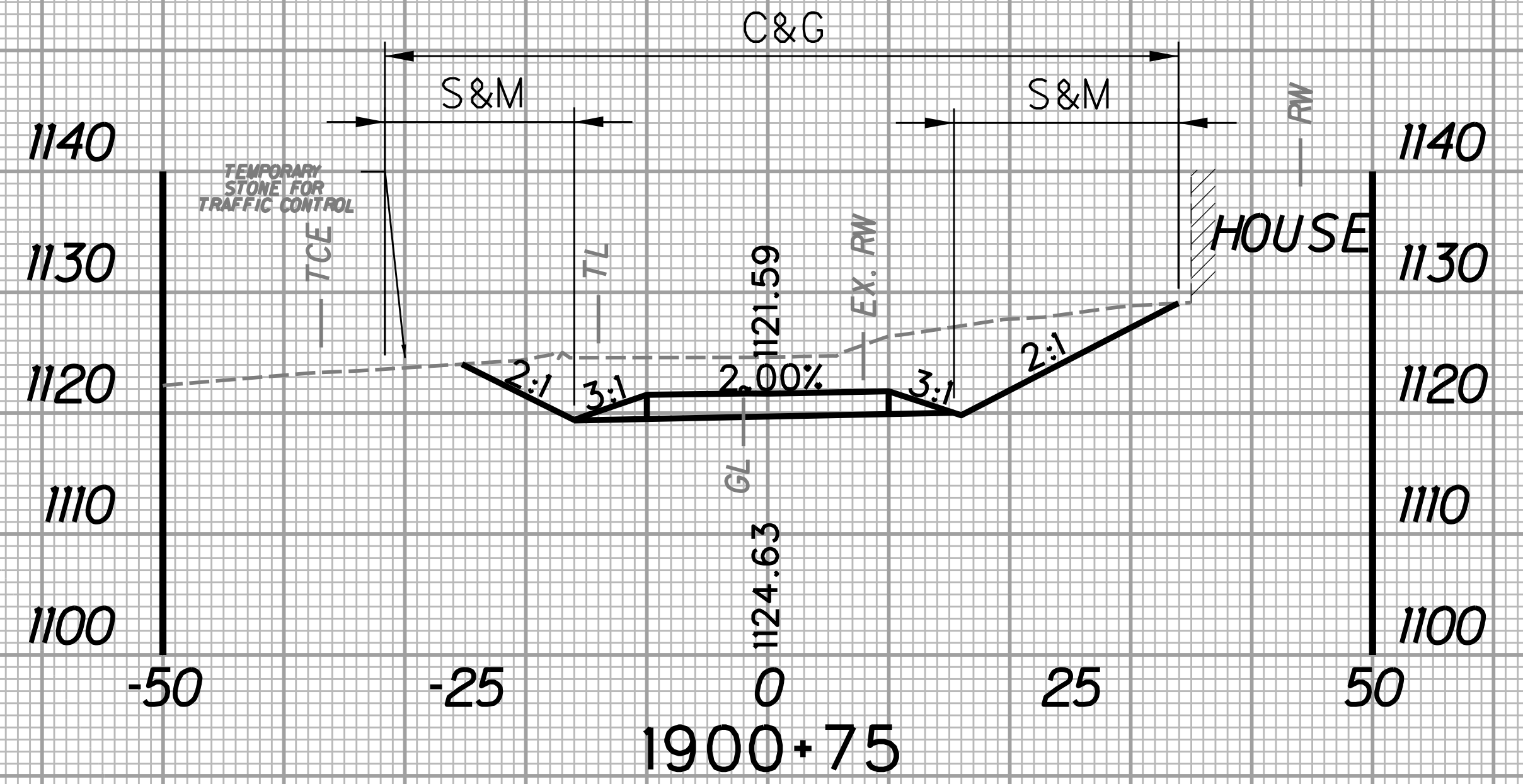
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
1900+25		0.0		50.0		330.1		0.0		0.0	
	25		228.8		1250.0		288.3		0.0		0.0
1900+50		18.3		50.0		292.6		0.0		0.0	



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
1900+75		34.3		66.6		270.4		0.0		0.0	
	25		763.8		1566.3		216.3		0.0		0.0
1901+00		26.8		58.7		196.7		0.0		0.0	

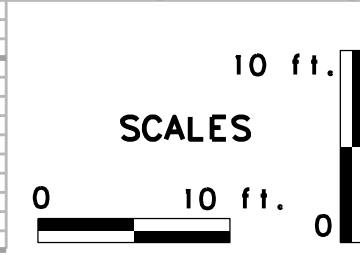


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
1900+00		0.0		0.0		0.0		0.0		0.0	
	25		0.0		625.0		152.8		0.0		0.0
1900+25		0.0		50.0		330.1		0.0		0.0	

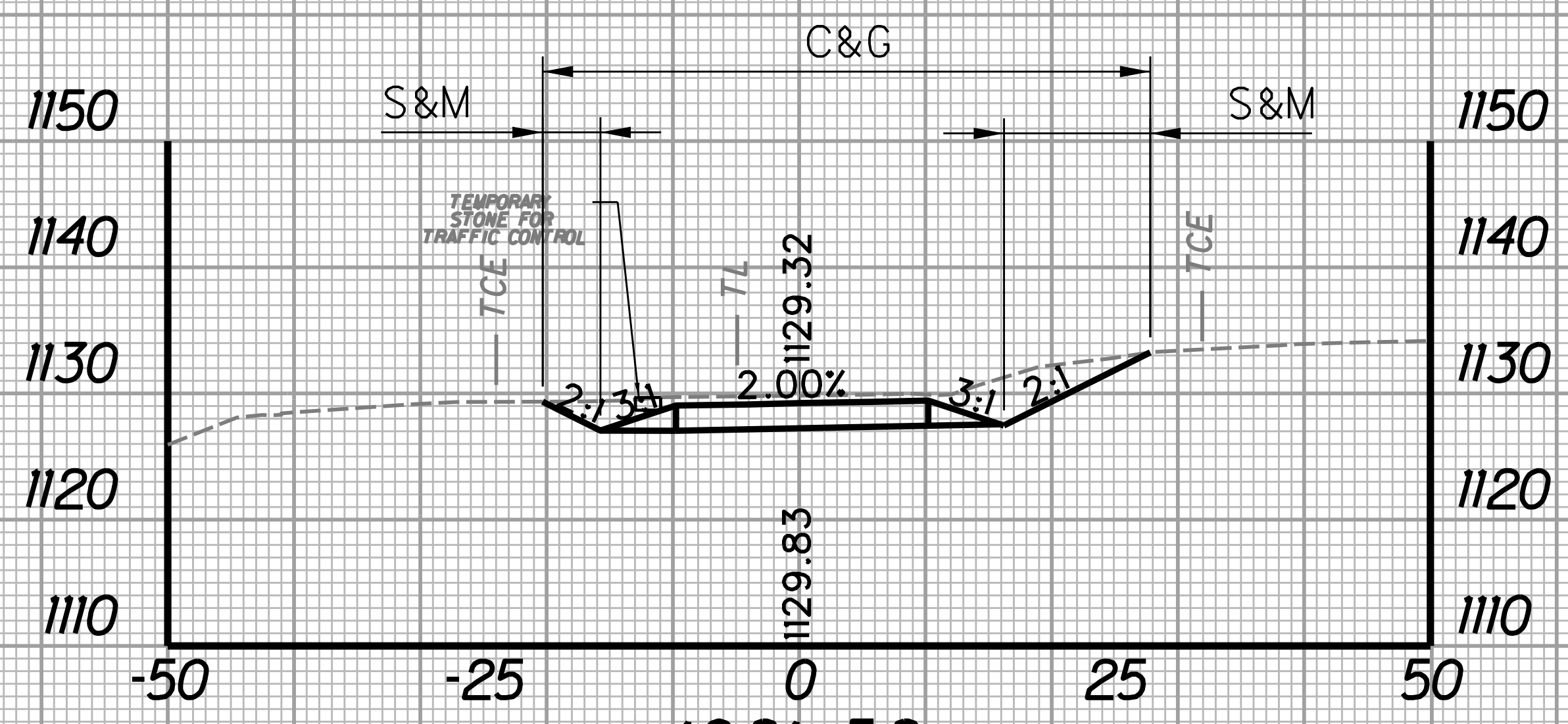


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
1900+50		18.3		50.0		292.6		0.0		0.0	
	25		657.5		1457.5		260.6		0.0		0.0
1900+75		34.3		66.6		270.4		0.0		0.0	

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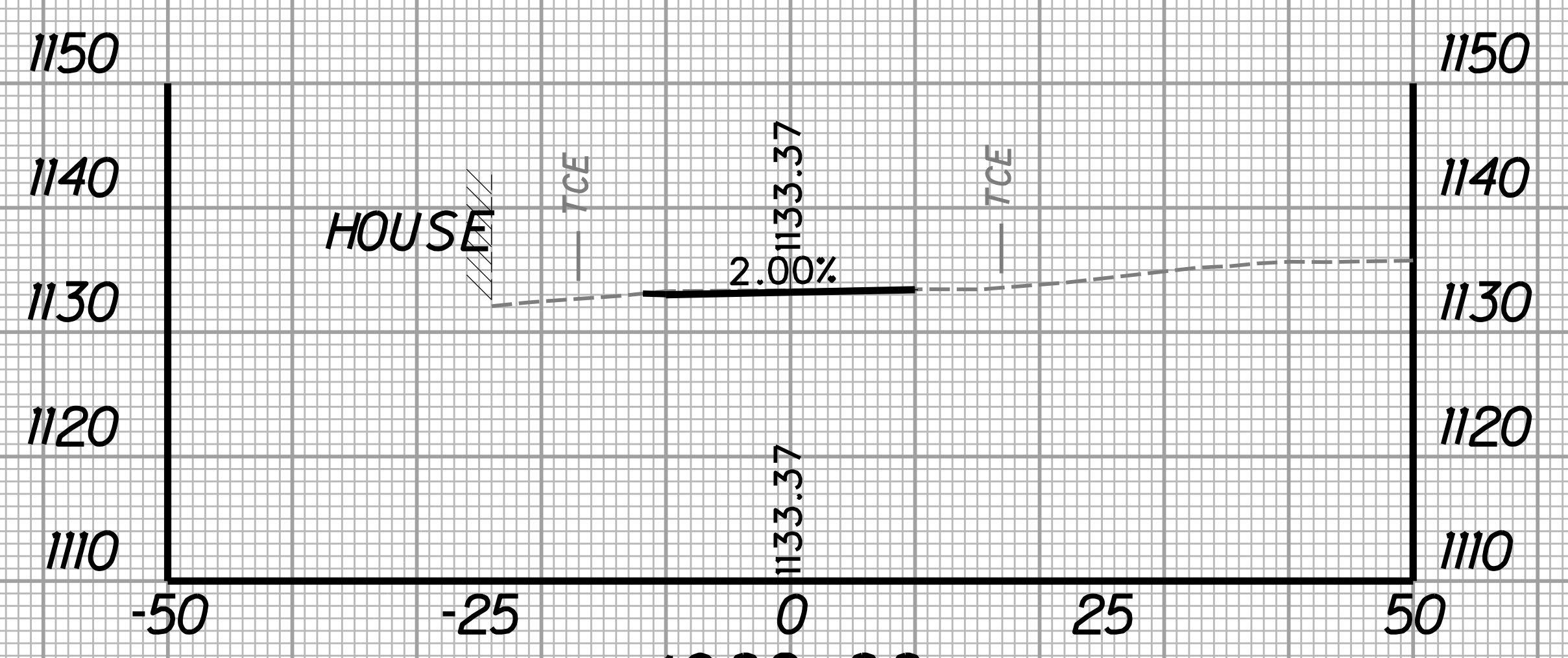


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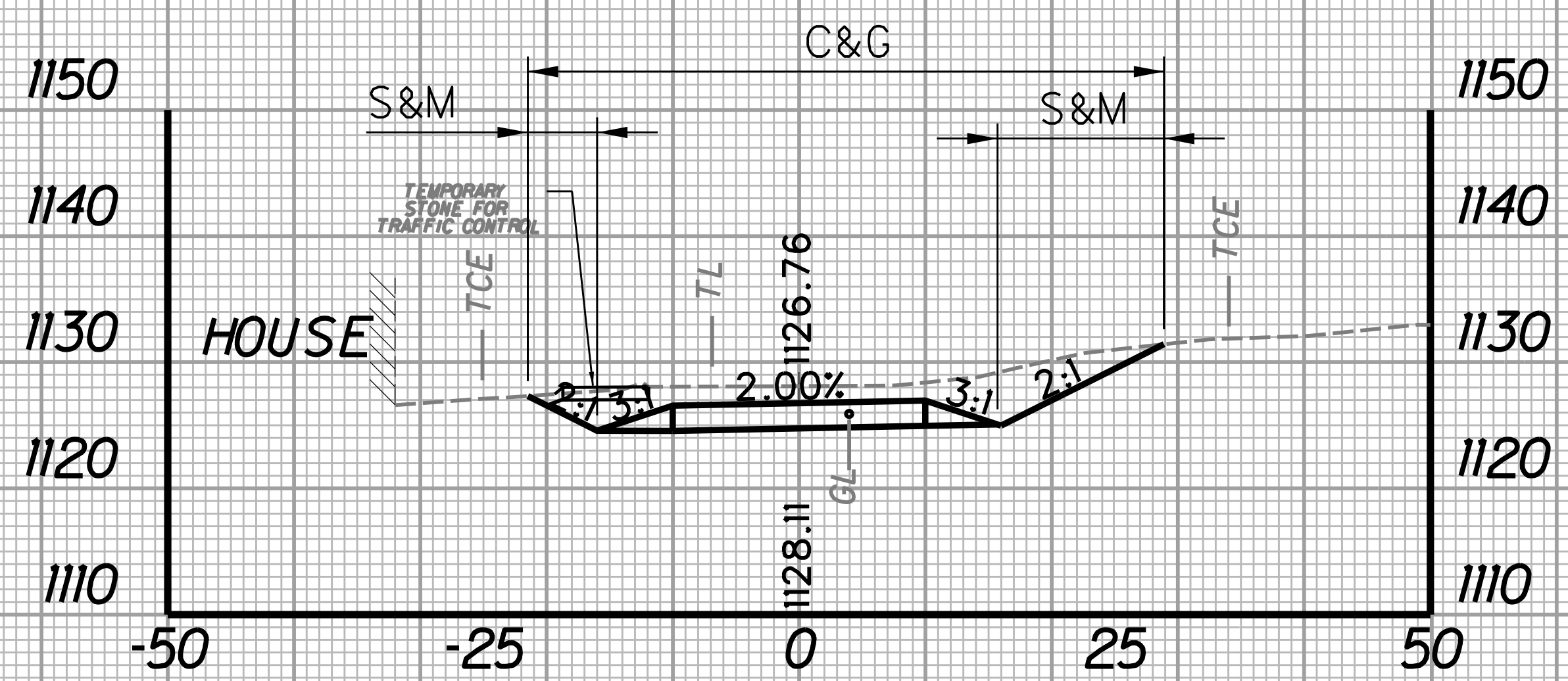
1901+50

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
1901+25		18.7		50.4		147.6		0.0		0.0	
	25		436.3		1207.5		120.6		0.0		0.0
1901+50		16.2		46.2		112.8		0.0		0.0	



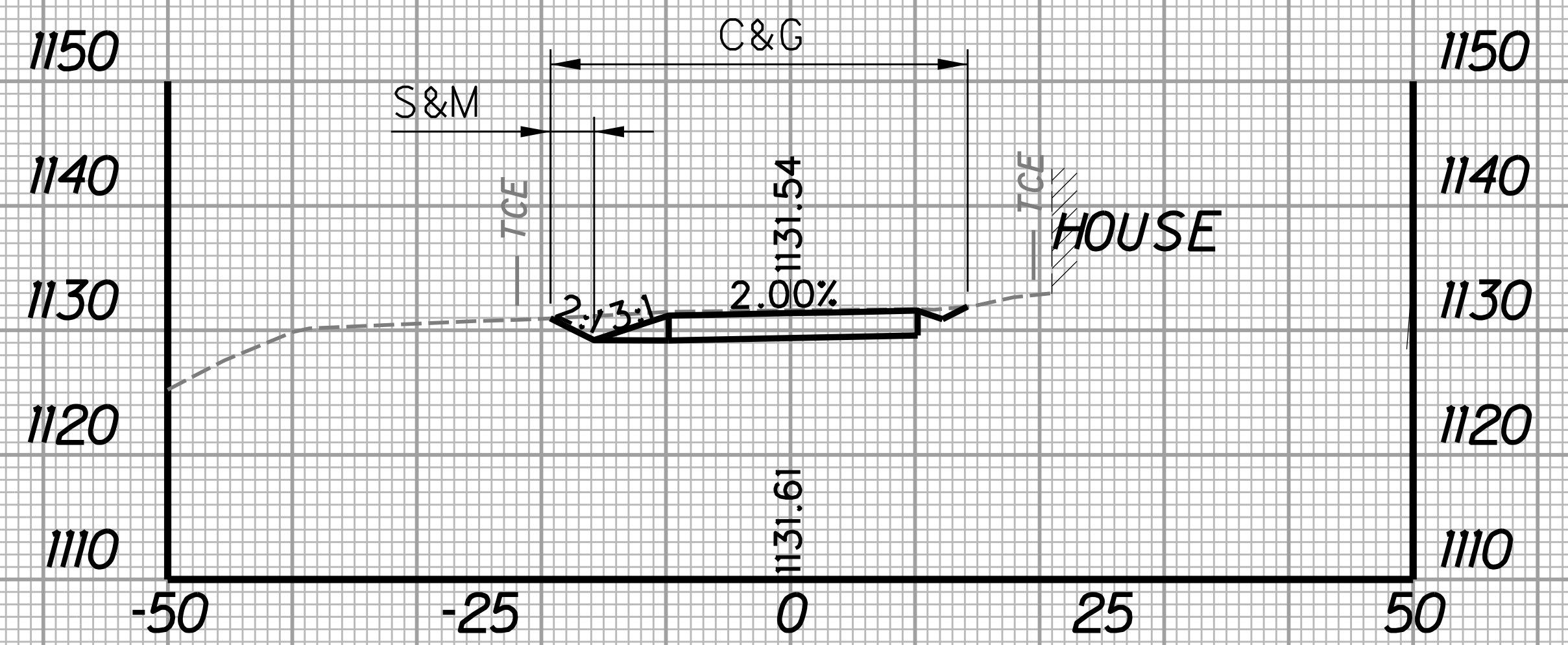
1902+00

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
1901+75		3.5		33.5		63.7		0.0		0.0	
	25		43.8		418.8		29.5		0.0		0.0
1902+00		0.0		0.0		0.0		0.0		0.0	



1901+25

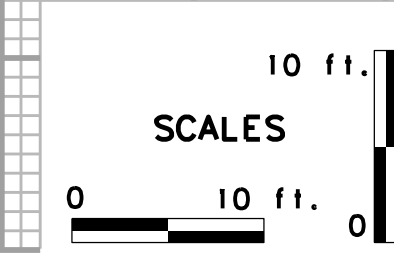
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
1901+00		26.8		58.7		196.7		0.0		0.0	
	25		568.8		1363.8		159.4		0.0		0.0
1901+25		18.7		50.4		147.6		0.0		0.0	



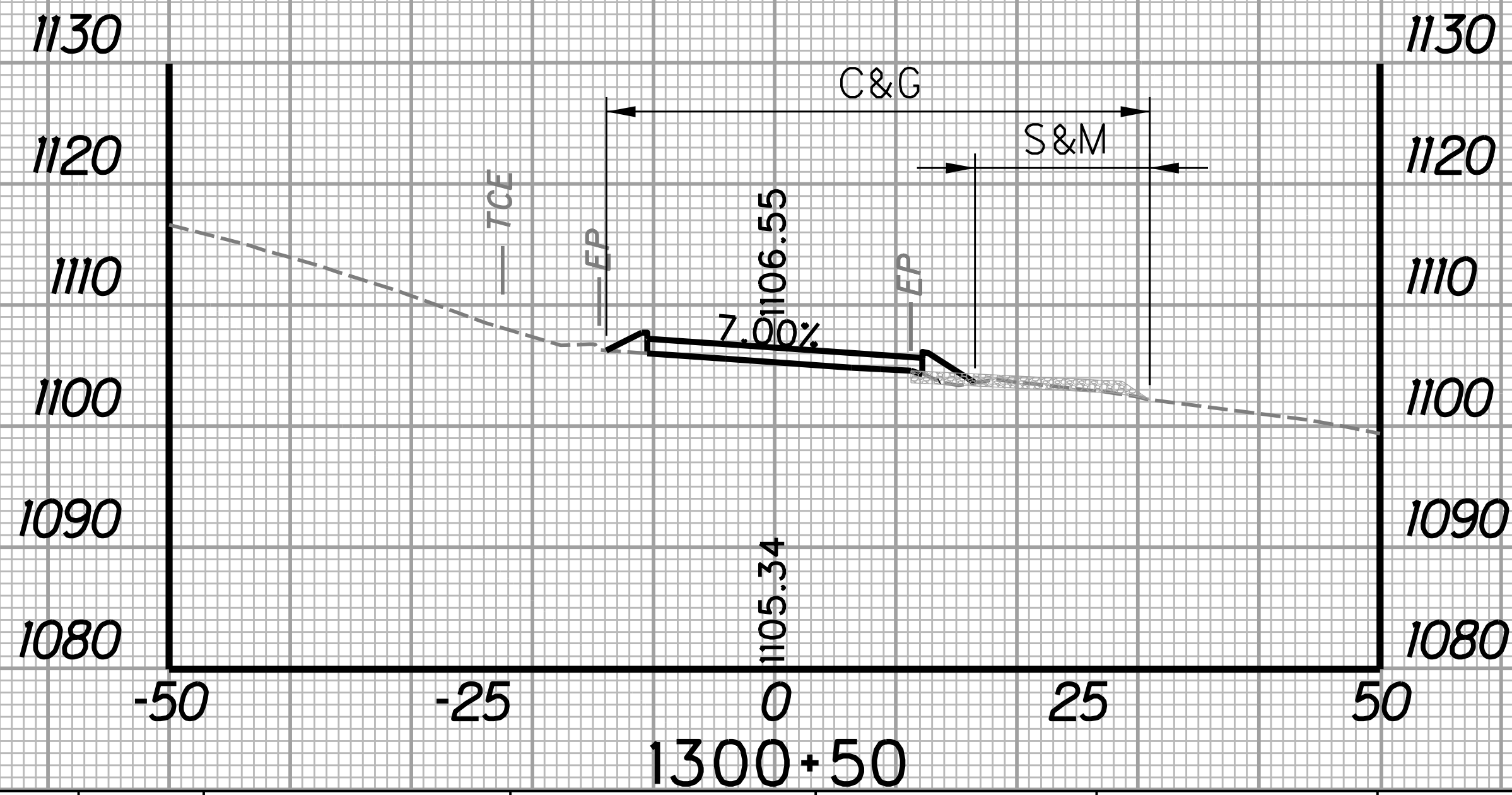
1901+75

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
1901+50		16.2		46.2		112.8		10.6		0.0	
	25		246.3		996.3		81.7		4.9		0.0
1901+75		3.5		33.5		63.7		0.0		0.0	

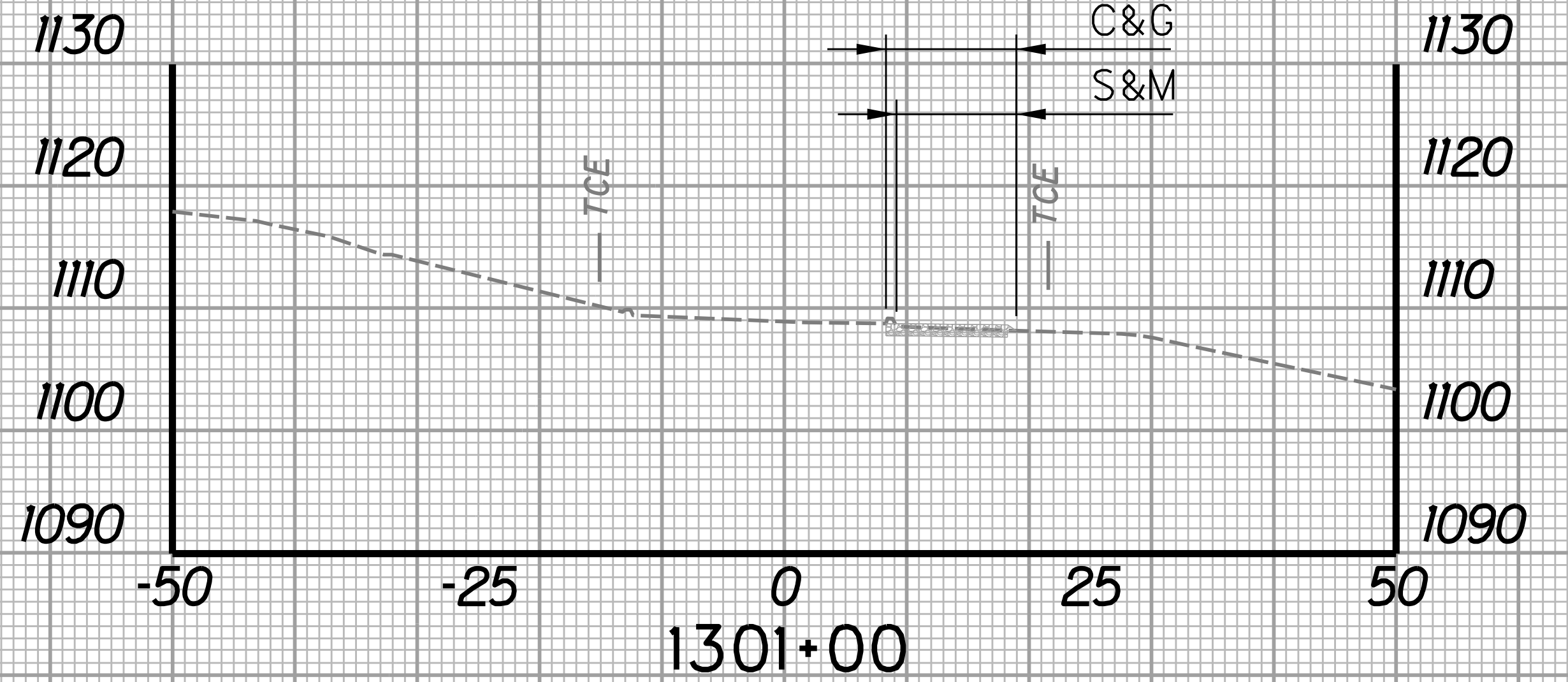
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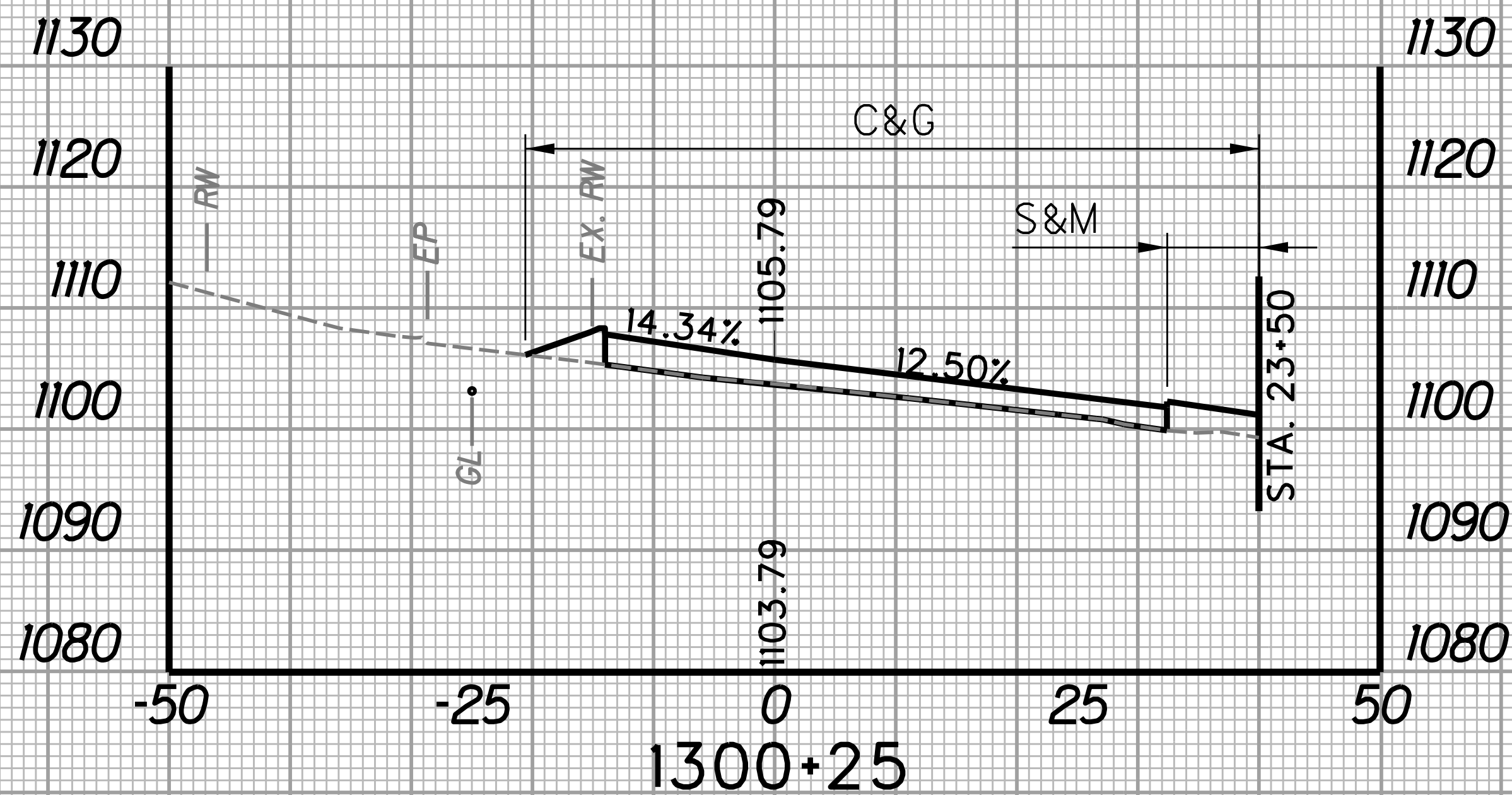
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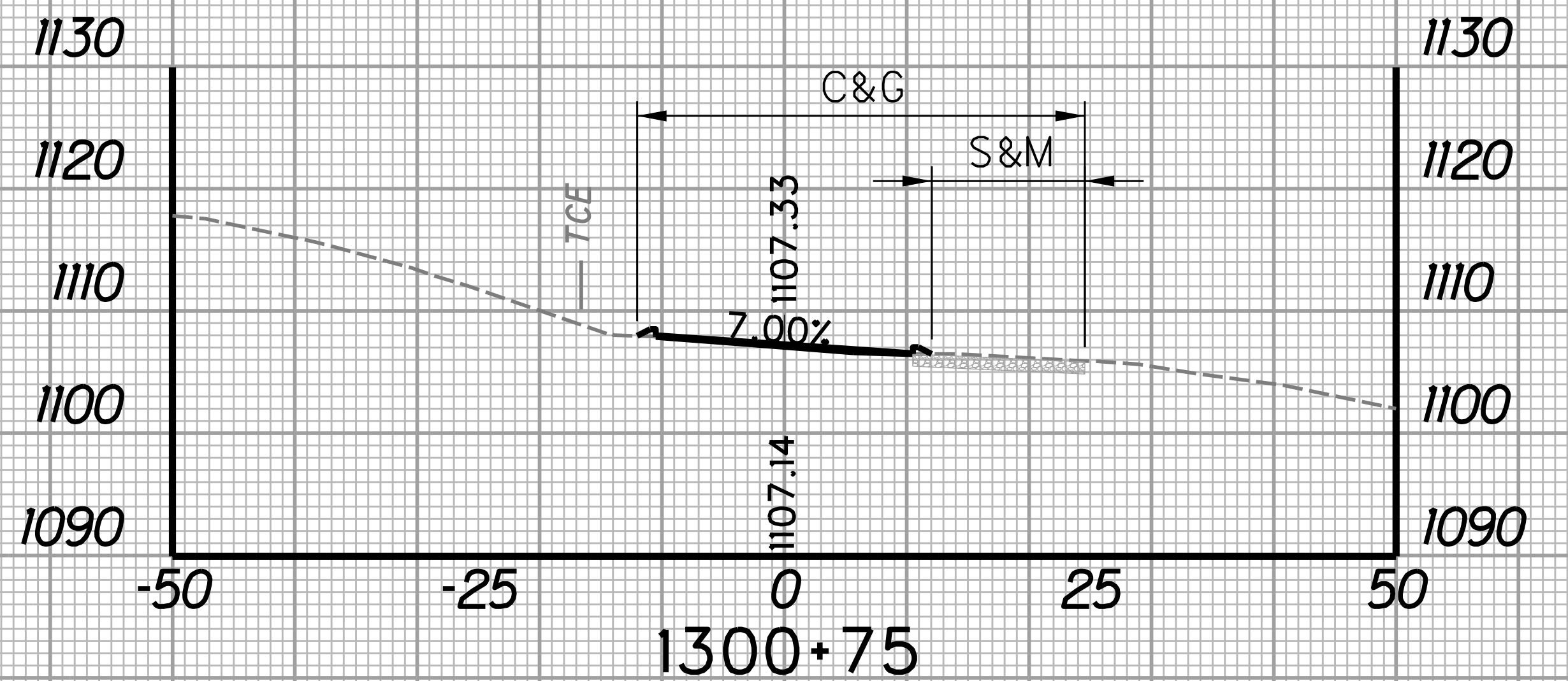
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
1300+25	25	7.6	275.0	60.6	1317.5	0.0	2.6	0.0	0.0	0.0	0.0
1300+50	25	14.4		44.8		5.6		0.0		0.0	



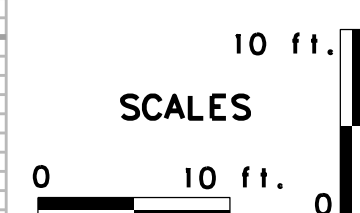
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
1300+75	25	16.7	330.6	40.8	643.1	17.9	11.5	0.0	0.0	0.0	0.0
1301+00	25	9.8		10.7		7.0		0.0		0.0	



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
1300+00	25	0.0	95.0	0.0	757.5	0.0	0.0	0.0	0.0	0.0	0.0
1300+25	25	7.6		60.6		0.0		0.0		0.0	

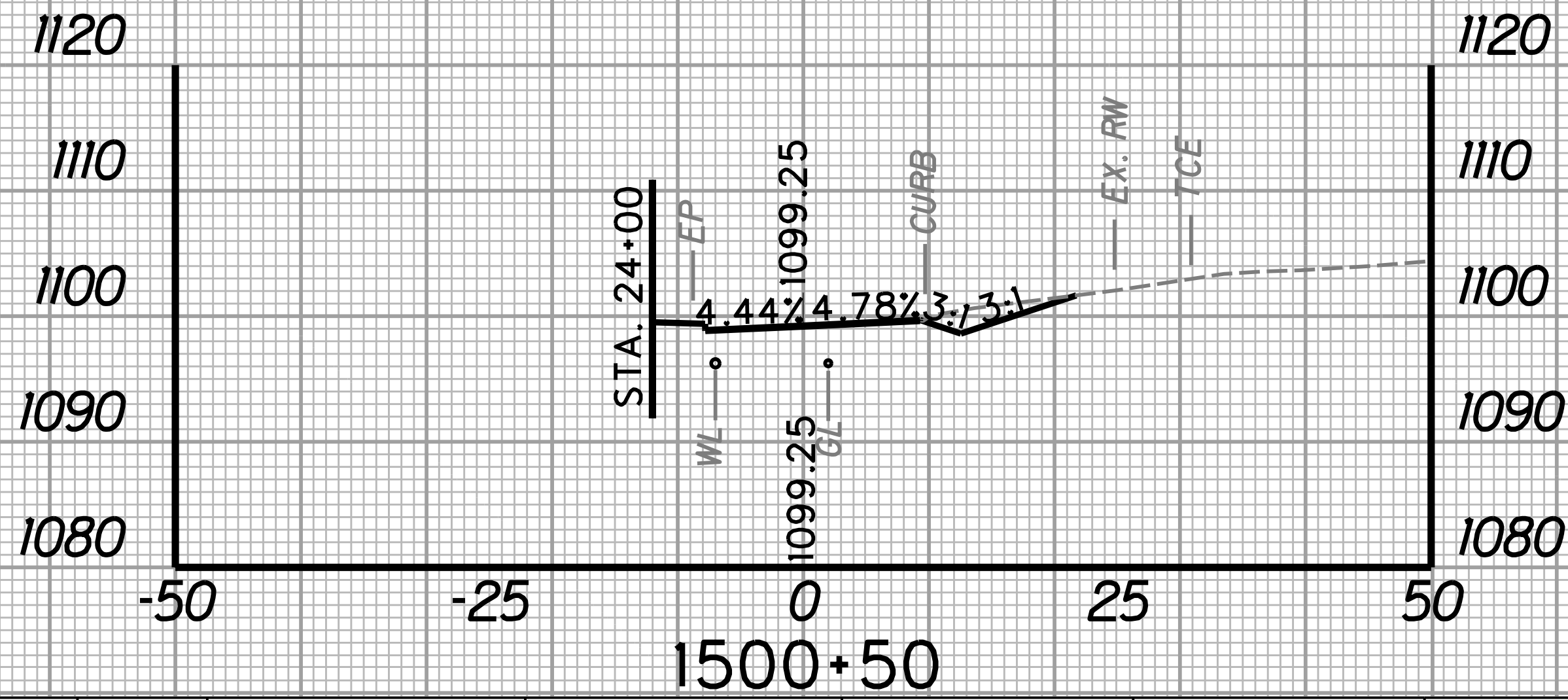


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
1300+50	25	14.4	388.8	44.8	1069.4	5.6	10.9	0.0	0.0	0.0	0.0
1300+75	25	16.7		40.8		17.9		0.0		0.0	

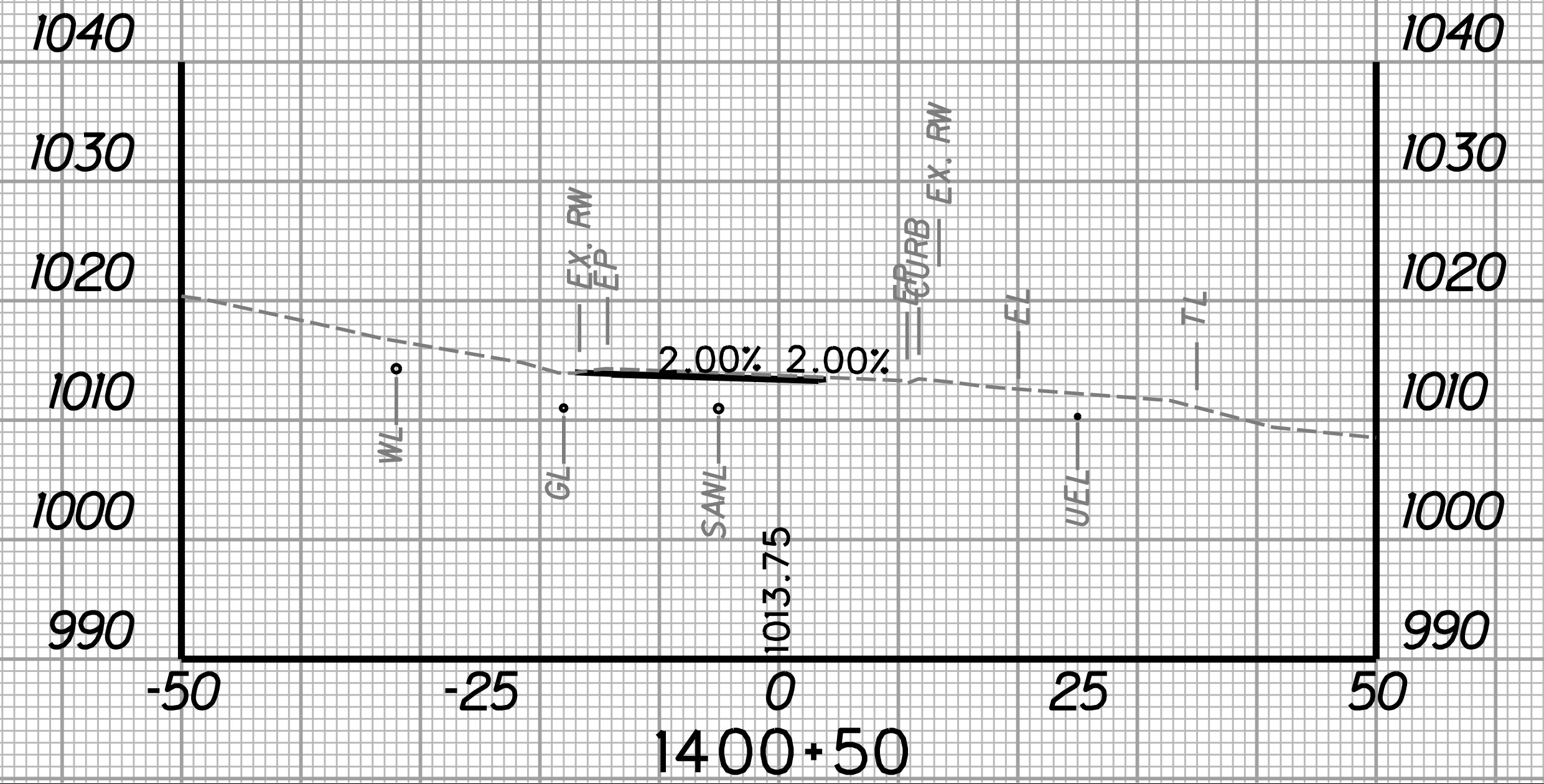


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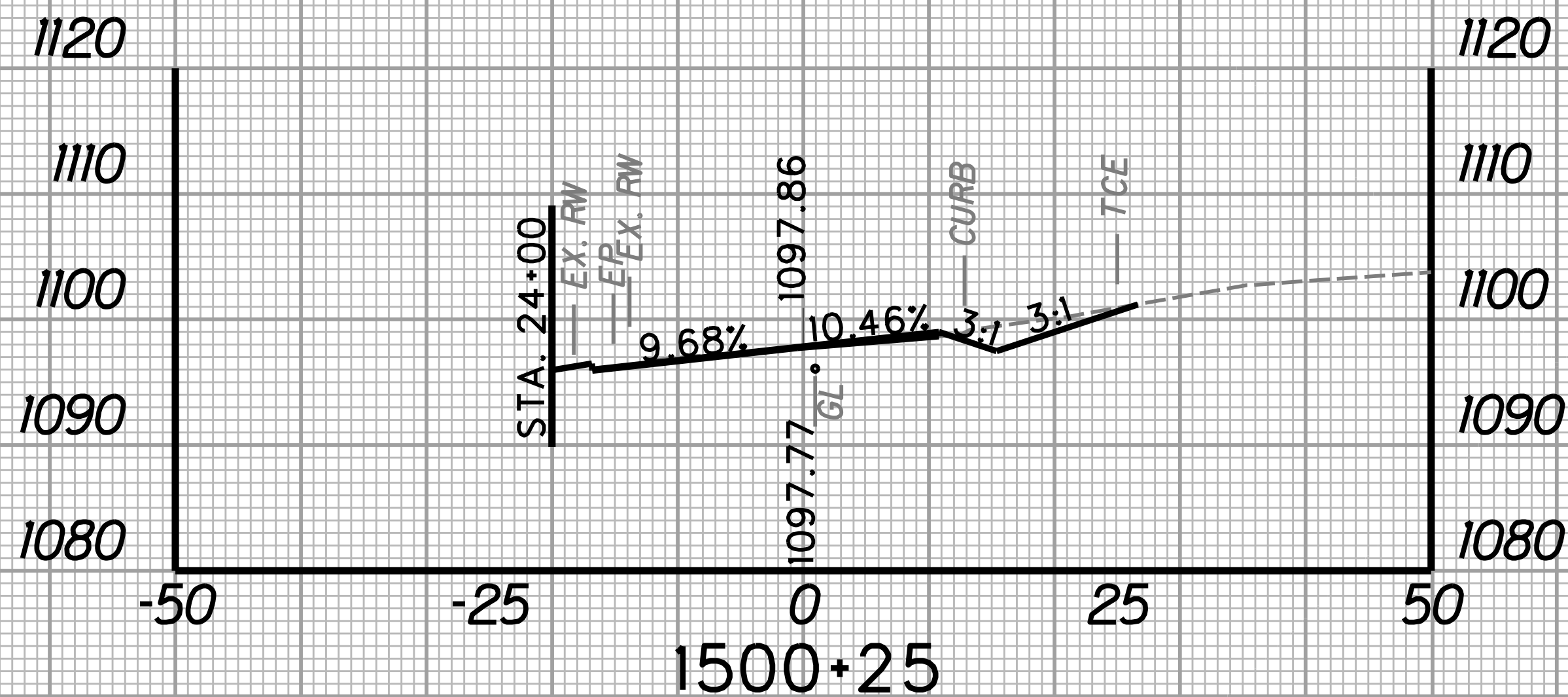
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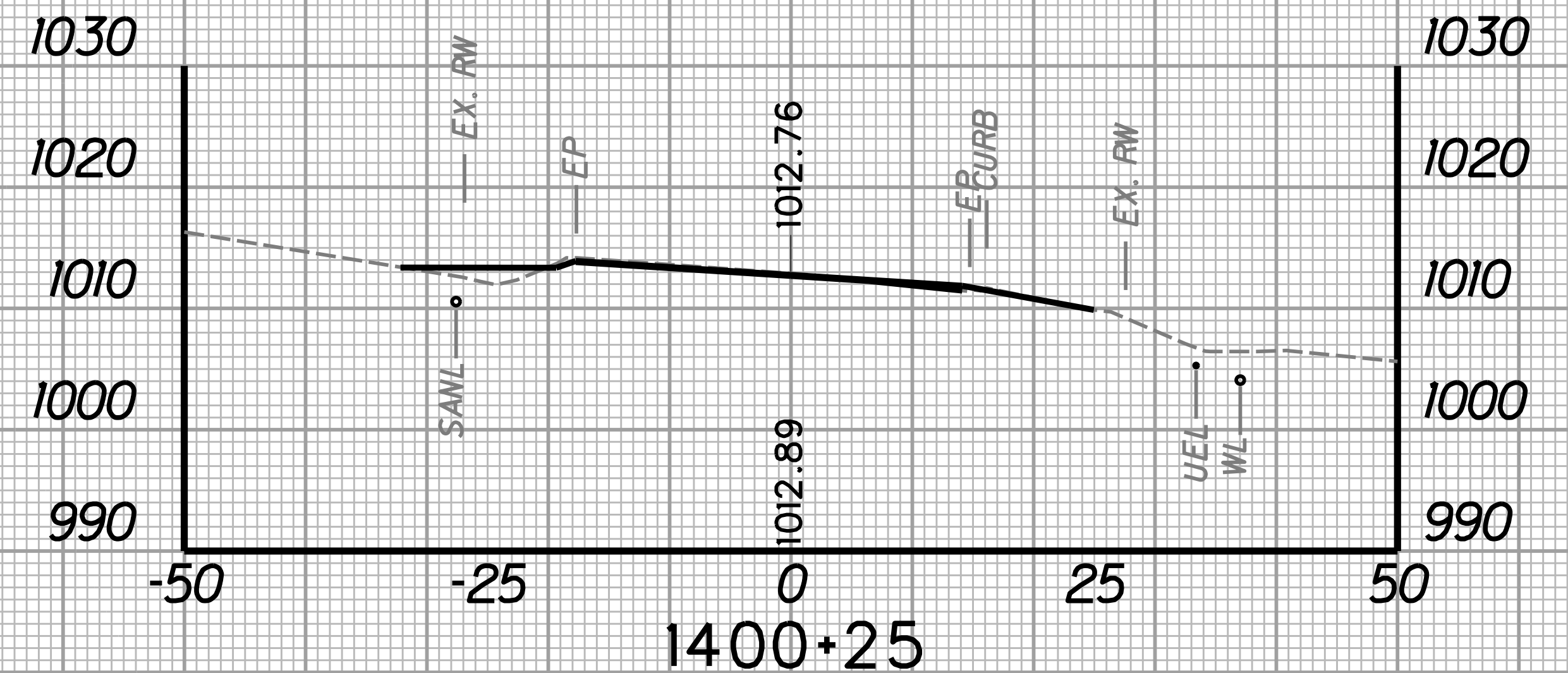
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
1800+25	25	5.6	70.0	39.1	570.0	0.0	0.5	10.6	4.9	0.0	0.0
1800+50	0.0	0.0	0.0	6.5	0.0	1.0	0.0	0.0	0.0	0.0	0.0



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
1800+25	25	5.6	70.0	39.1	570.0	0.0	0.5	10.6	4.9	0.0	0.0
1800+50	0.0	0.0	0.0	6.5	0.0	1.0	0.0	0.0	0.0	0.0	0.0

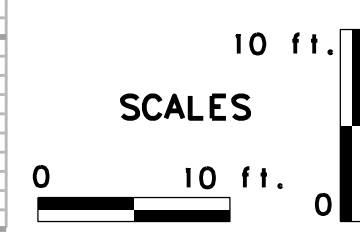


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
1800+25	25	5.6	70.0	39.1	570.0	0.0	0.5	10.6	4.9	0.0	0.0
1800+50	0.0	0.0	0.0	6.5	0.0	1.0	0.0	0.0	0.0	0.0	0.0

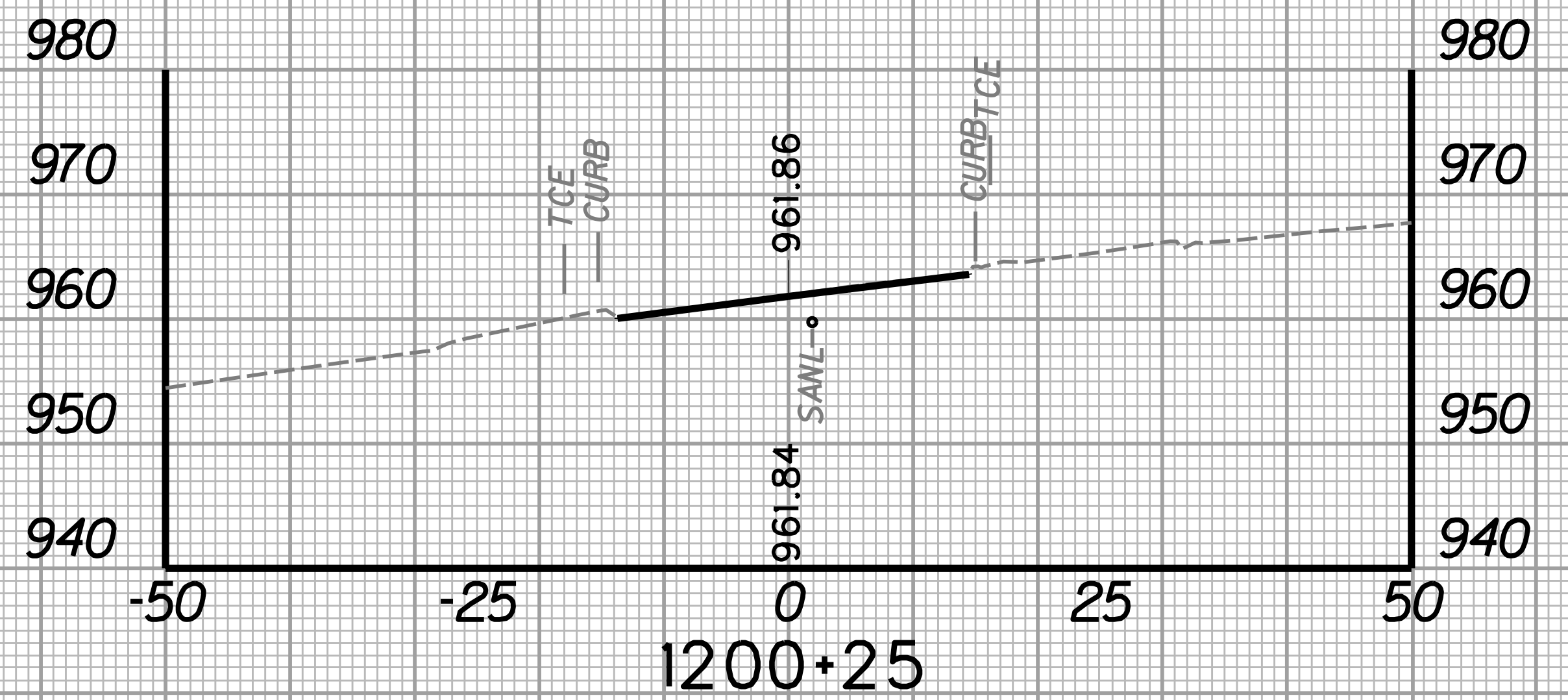


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
1800+25	25	5.6	70.0	39.1	570.0	0.0	0.5	10.6	4.9	0.0	0.0
1800+50	0.0	0.0	0.0	6.5	0.0	1.0	0.0	0.0	0.0	0.0	0.0

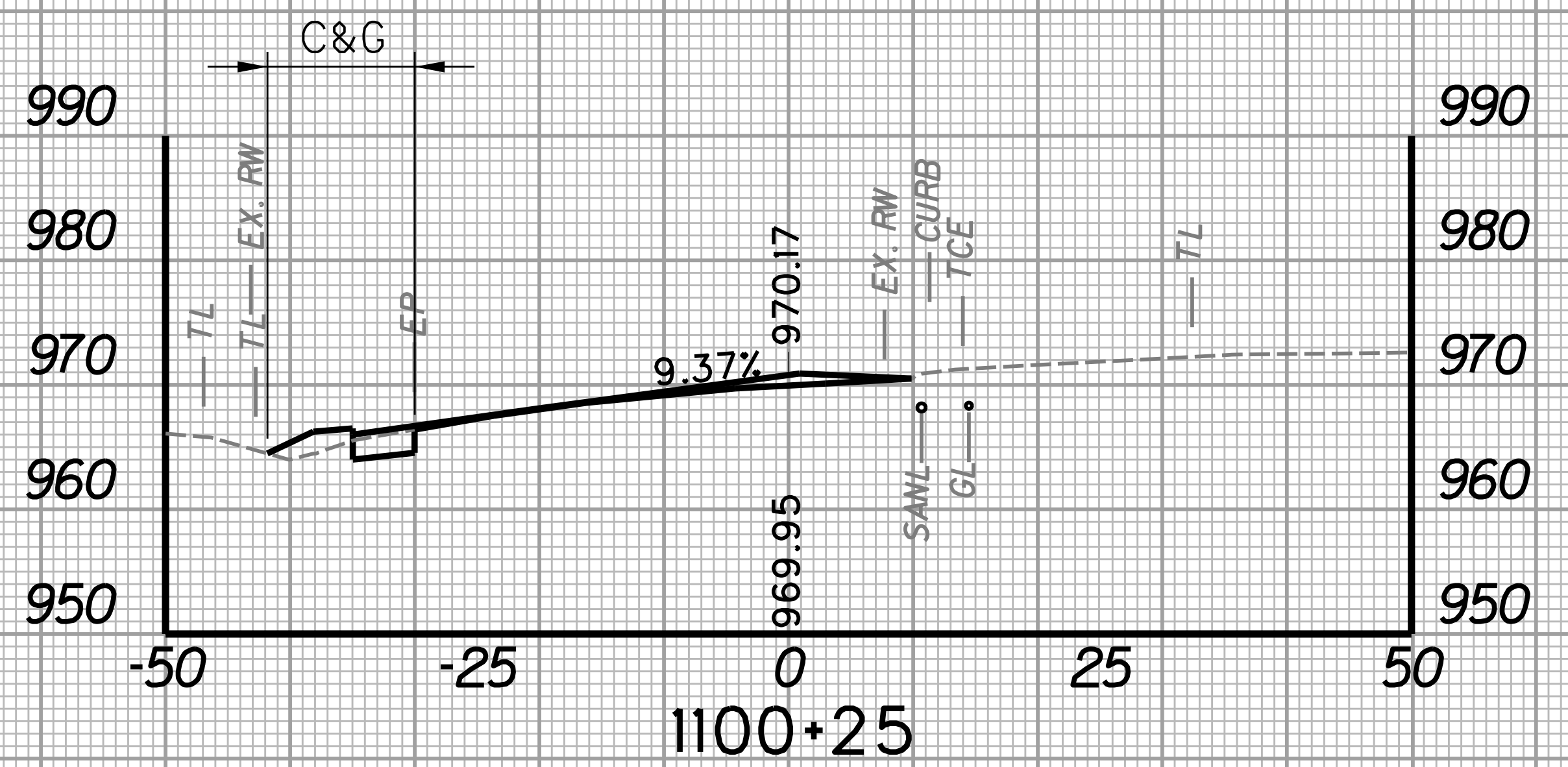
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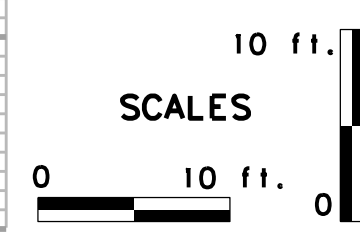


STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
1200+00		0.0		0.0		0.0		0.0		0.0	
	25		0.0		0.0		0.0		0.0		0.0
1200+25		0.0		0.0		0.0		0.0		0.0	



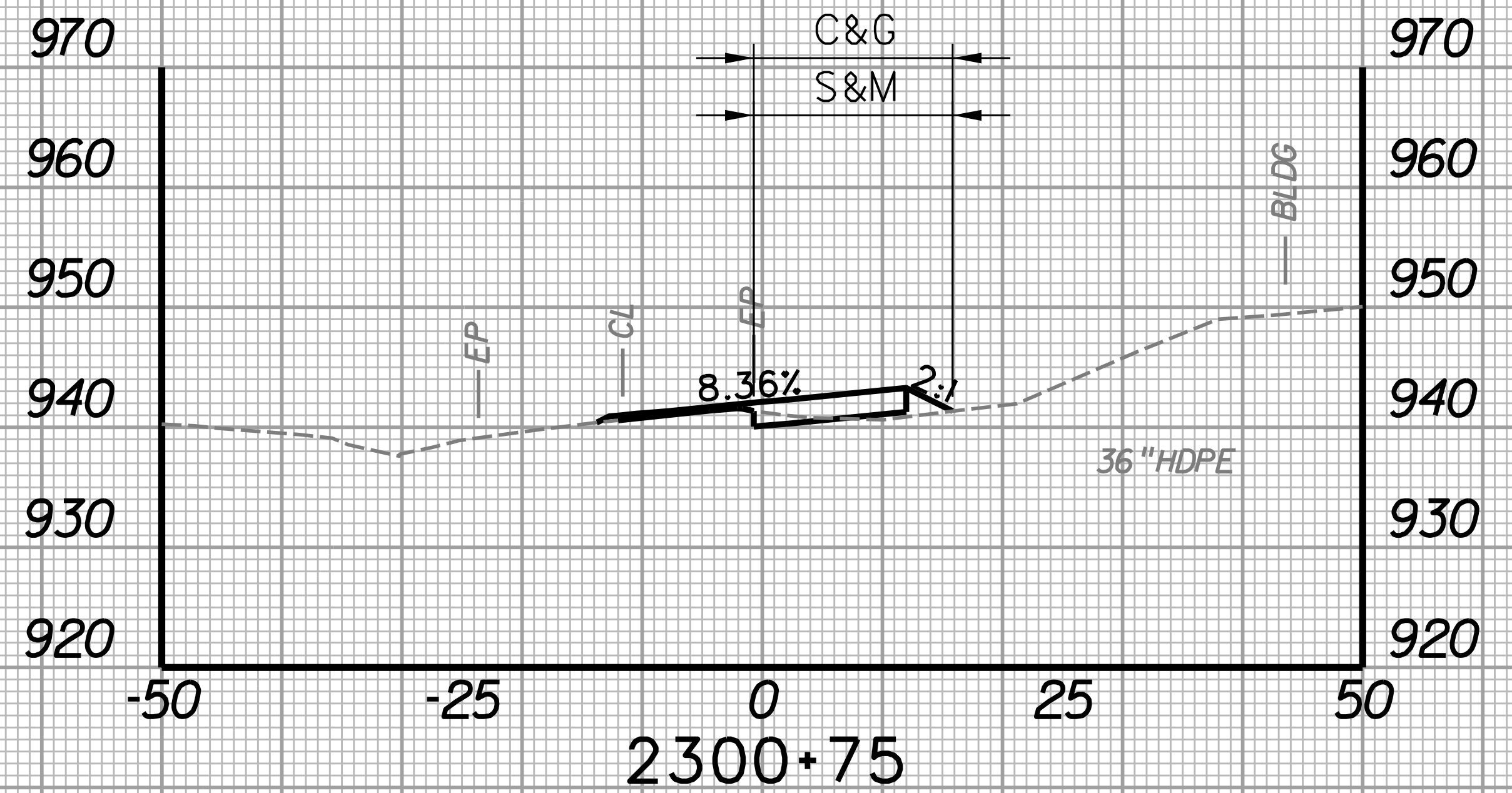
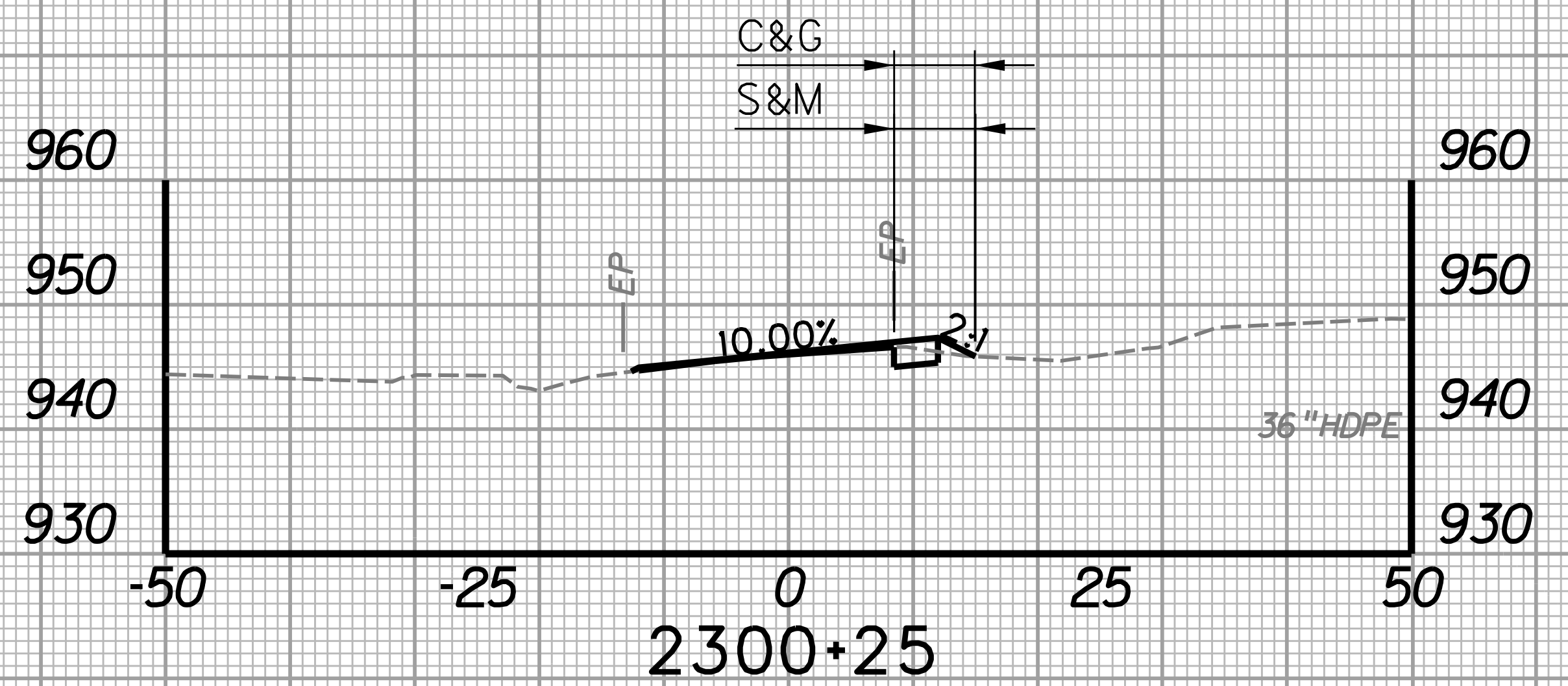
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
1100+00		0.0		0.0		0.0		0.0		0.0	
	25		0.0		570.0		0.5		0.0		0.0
1100+25		0.0		11.8		8.3		0.0		0.0	

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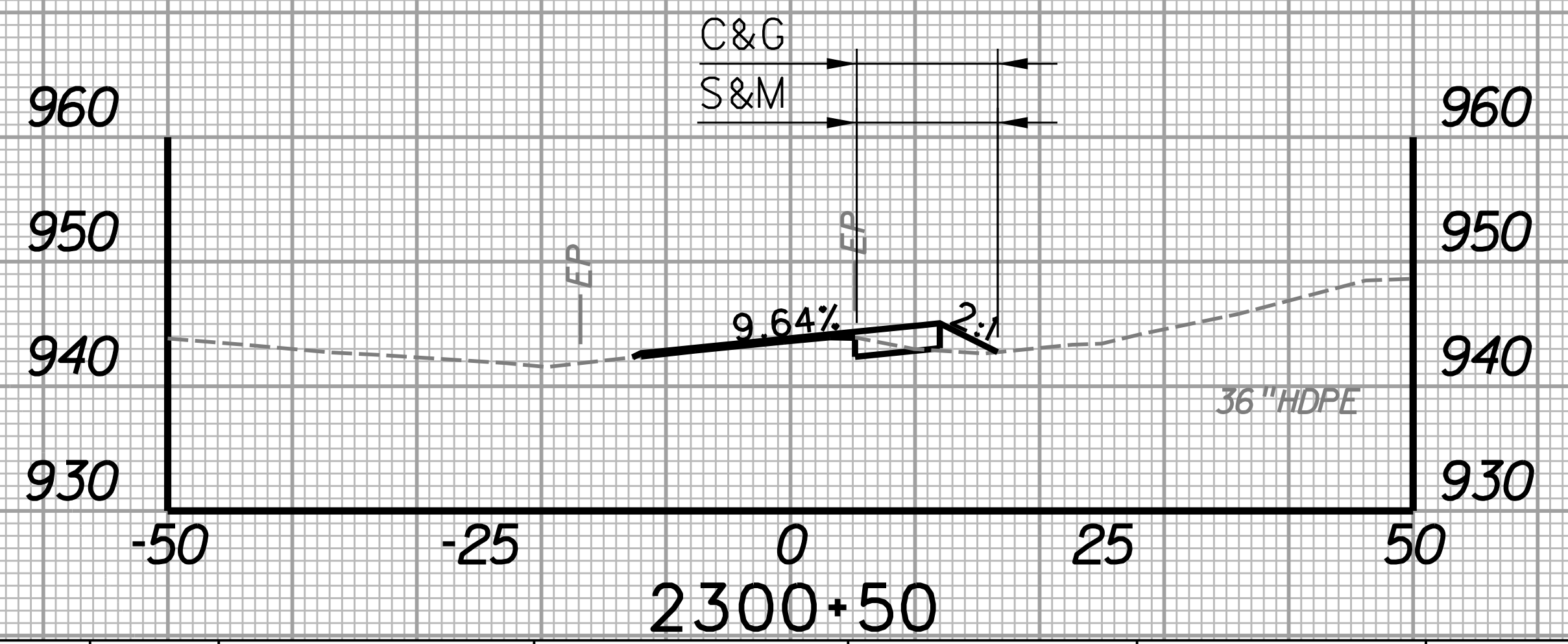
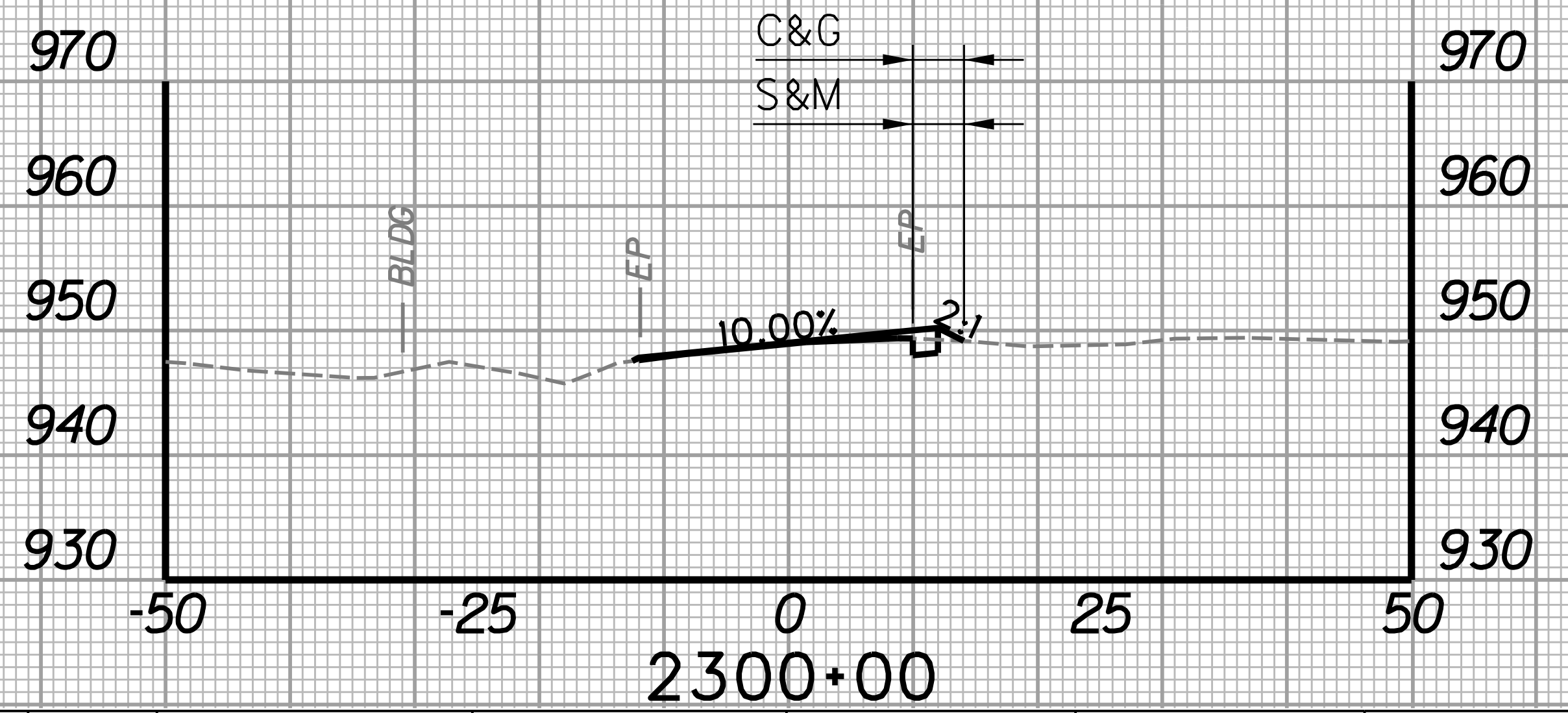
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
CROSS-SECTION SHEET
DISTRICT DRIVE



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
2300+00	25	4.1	132.5	4.1	132.5	2.5	3.3	0.0	0.0	0.0	0.0
2300+25	6.5	6.5	42.25	6.5	42.25	4.6	0.0	0.0	0.0	0.0	0.0

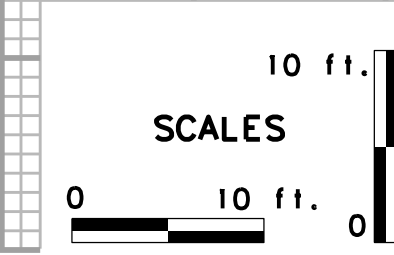
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
2300+50	25	11.3	348.8	11.3	348.8	4.2	3.9	0.0	0.0	0.0	0.0
2300+75	16.6	16.6	275.56	16.6	275.56	4.3	0.0	0.0	0.0	0.0	0.0



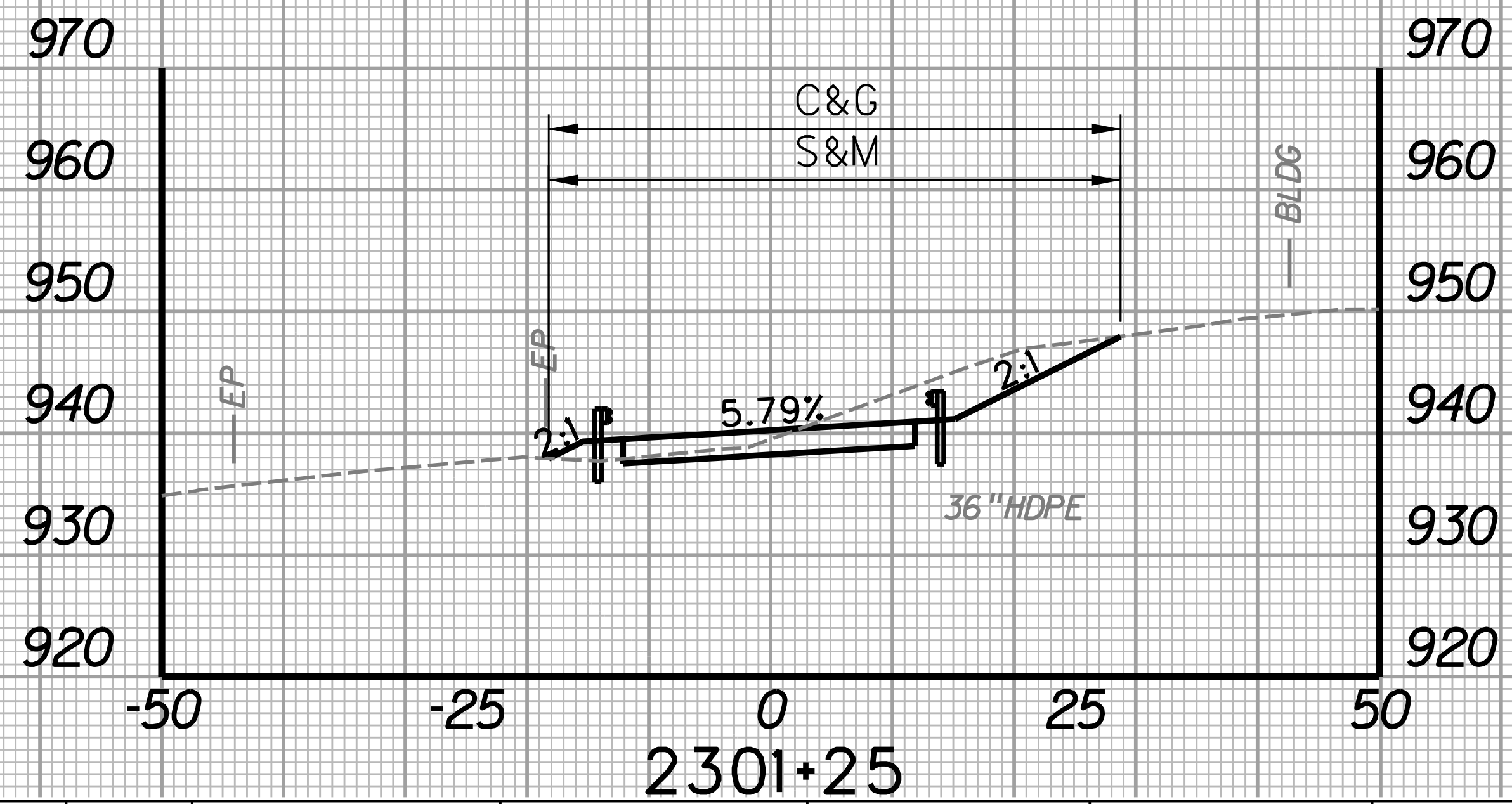
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
2300+00	0	4.1	0	4.1	0	2.5	0	0.0	0	0.0	0

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
2300+25	25	6.5	222.5	6.5	222.5	4.6	4.1	0.0	0.0	0.0	0.0
2300+50	11.3	11.3	127.69	11.3	127.69	4.2	0.0	0.0	0.0	0.0	0.0

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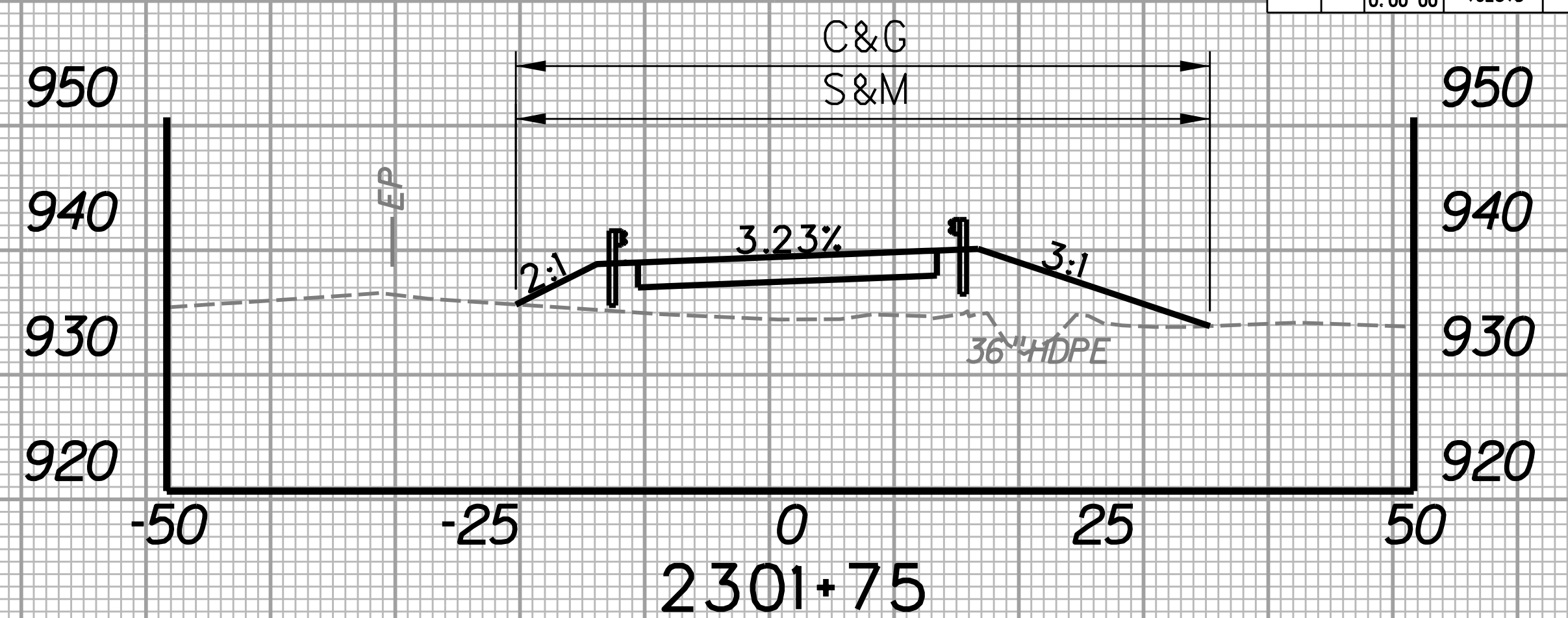


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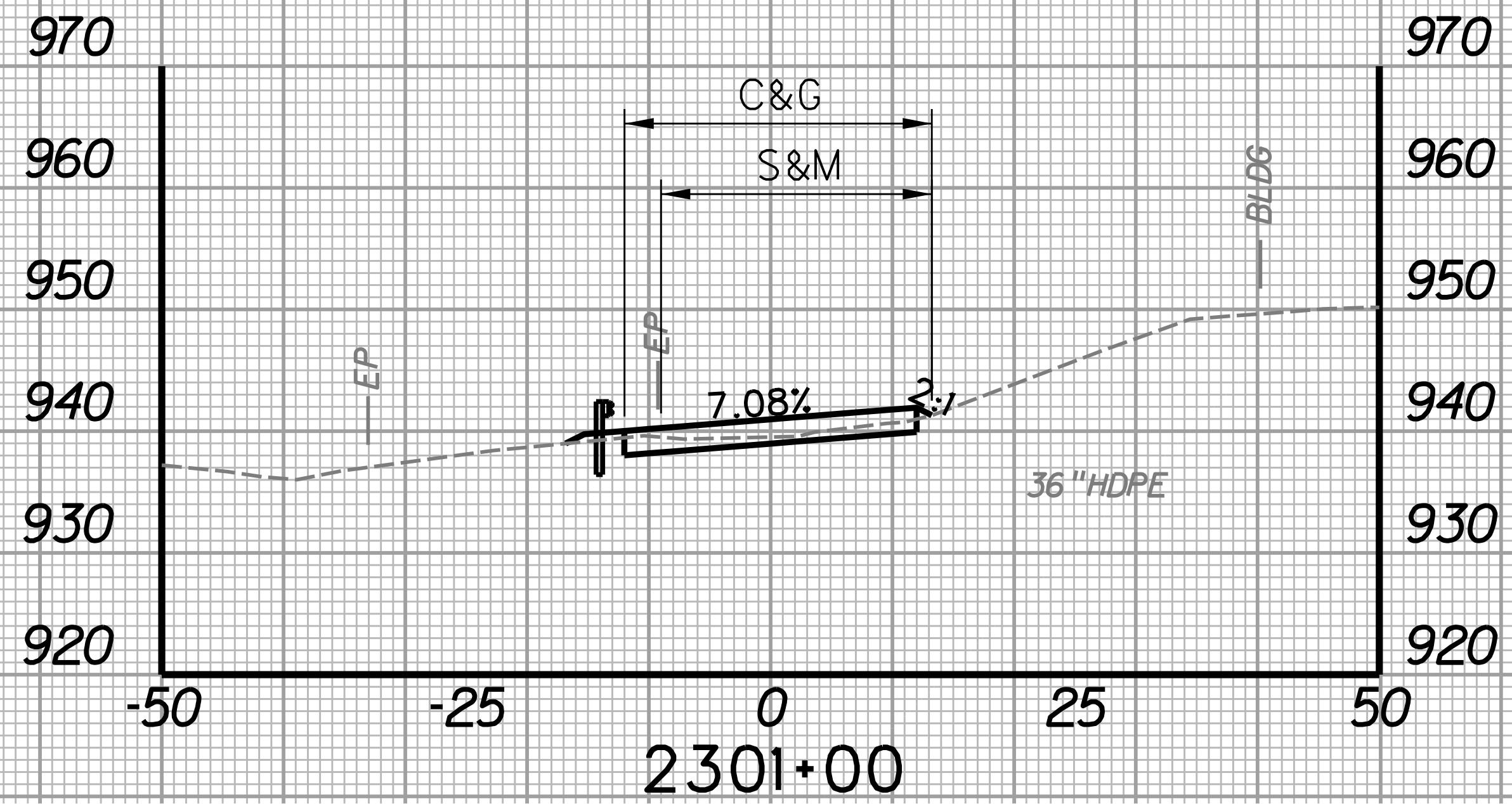
2301+25

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
2301+00	25	22.3	866.3	25.3	903.8	20.0	48.7	0.0	0.0	0.0	0.0
2301+25	47.0	47.0		47.0		85.2		0.0		0.0	



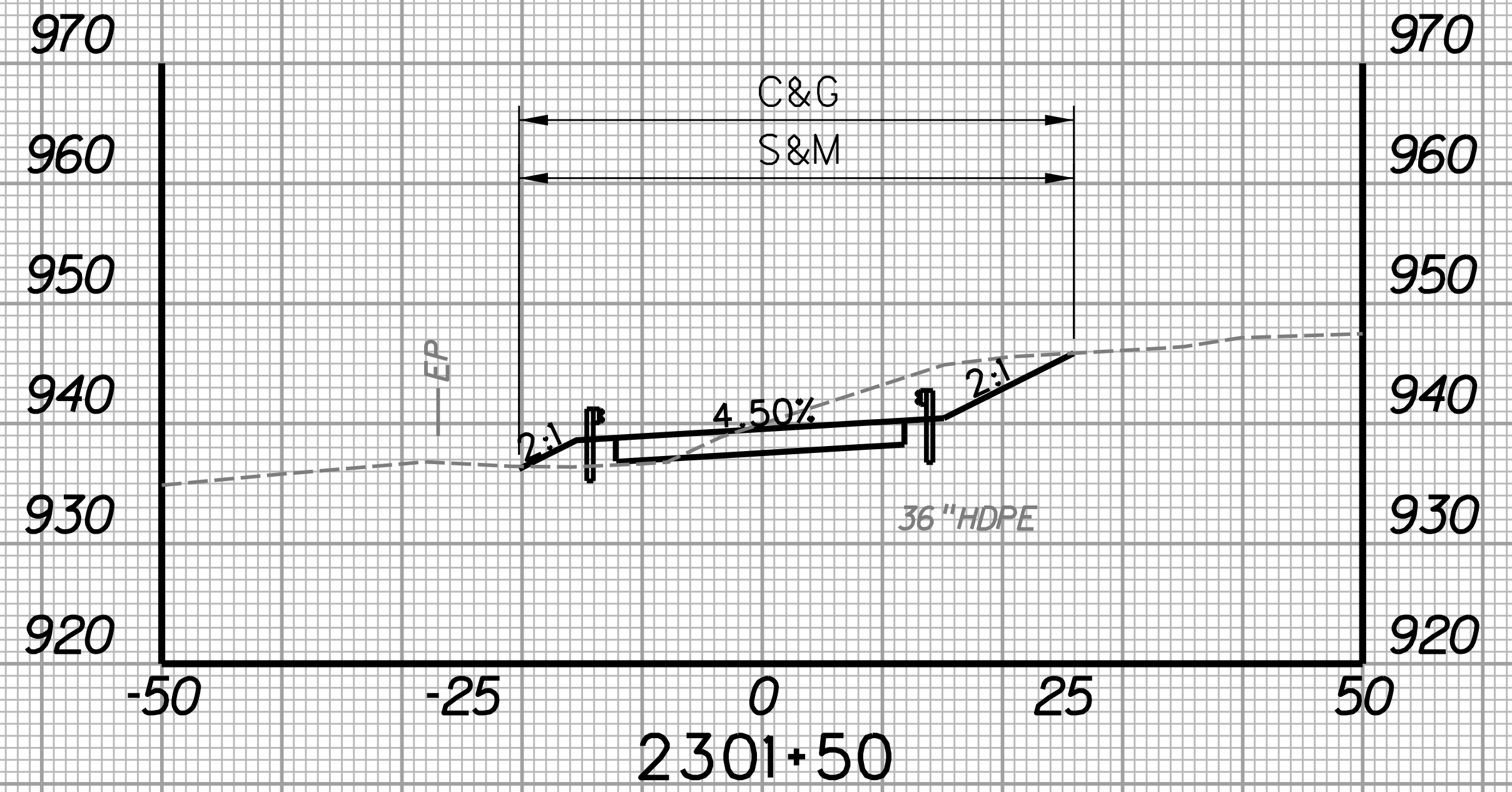
2301+75

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
2301+50	25	46.2	1273.8	46.2	1273.8	95.4	44.2	2.7	70.7	0.0	0.0
2301+75	55.7			55.7		0.0		150.1		0.0	



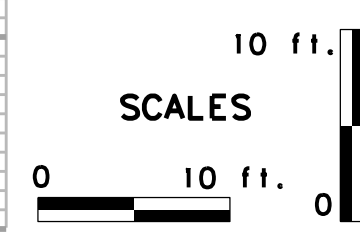
2301+00

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
2300+75	25	16.6	486.3	16.6	523.8	4.3	11.3	0.0	0.0	0.0	0.0
2301+00	22.3	22.3		25.3		20.0		0.0		0.0	



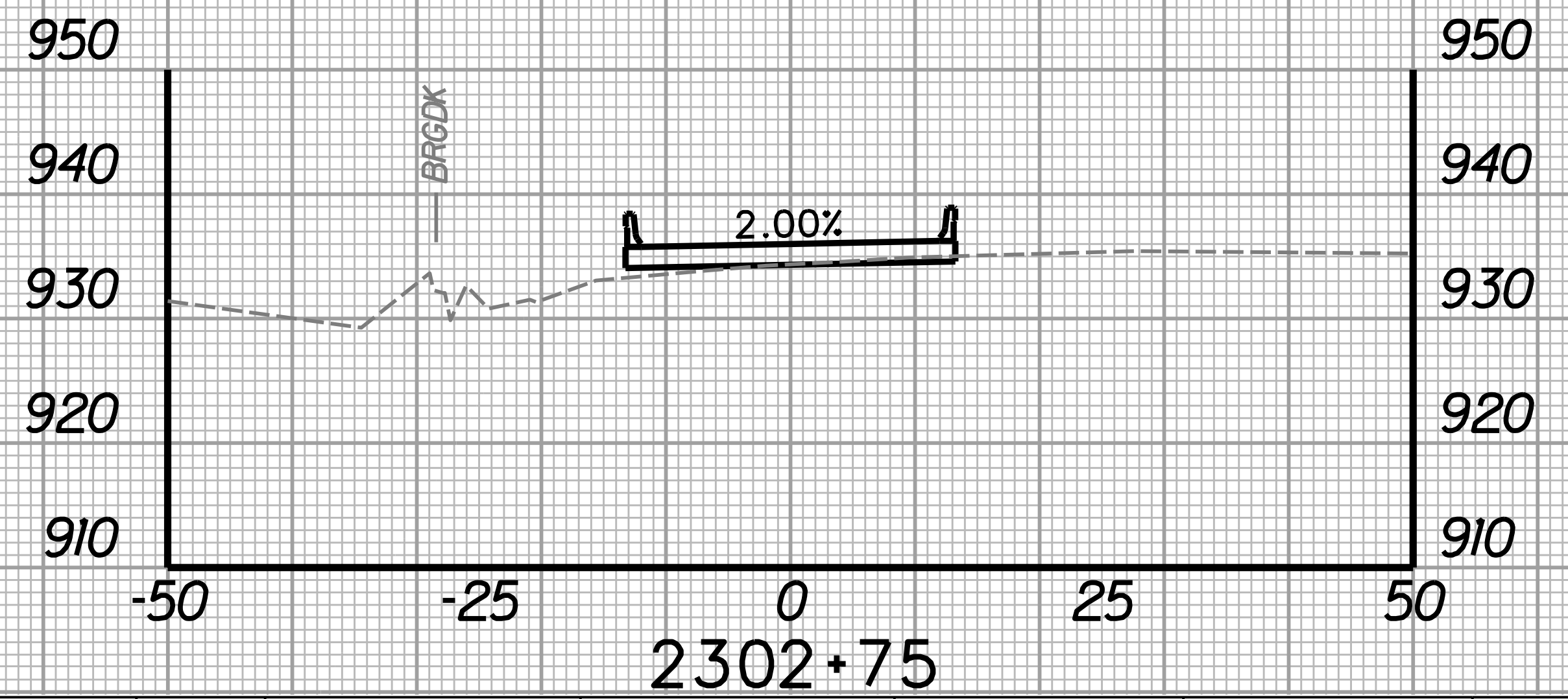
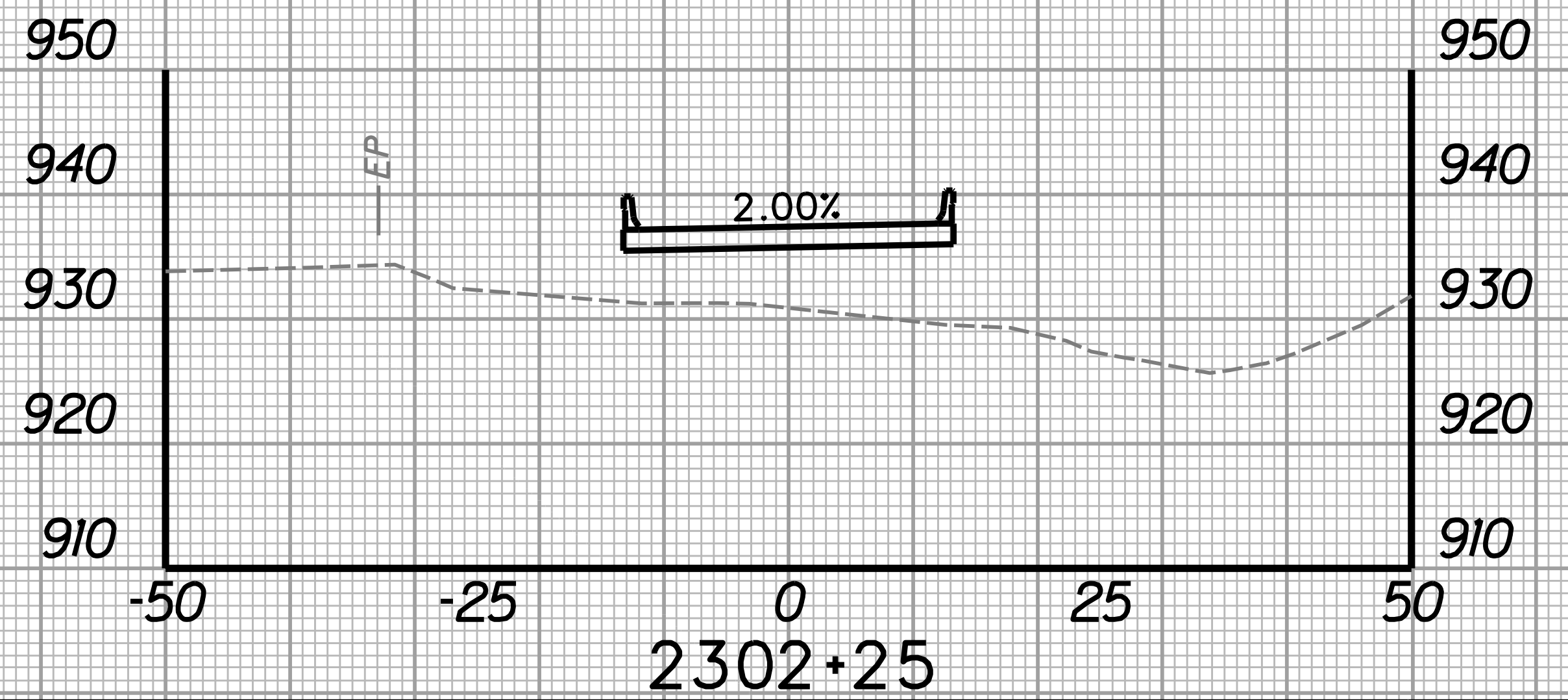
2301+50

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH FT	AREA SF	WIDTH FT	AREA SF	SF	CY	SF	CY	SF	CY
2301+25	25	47.0	1165.0	47.0	1165.0	85.2	83.6	0.0	1.3	0.0	0.0
2301+50	46.2			46.2		95.4		2.7		0.0	



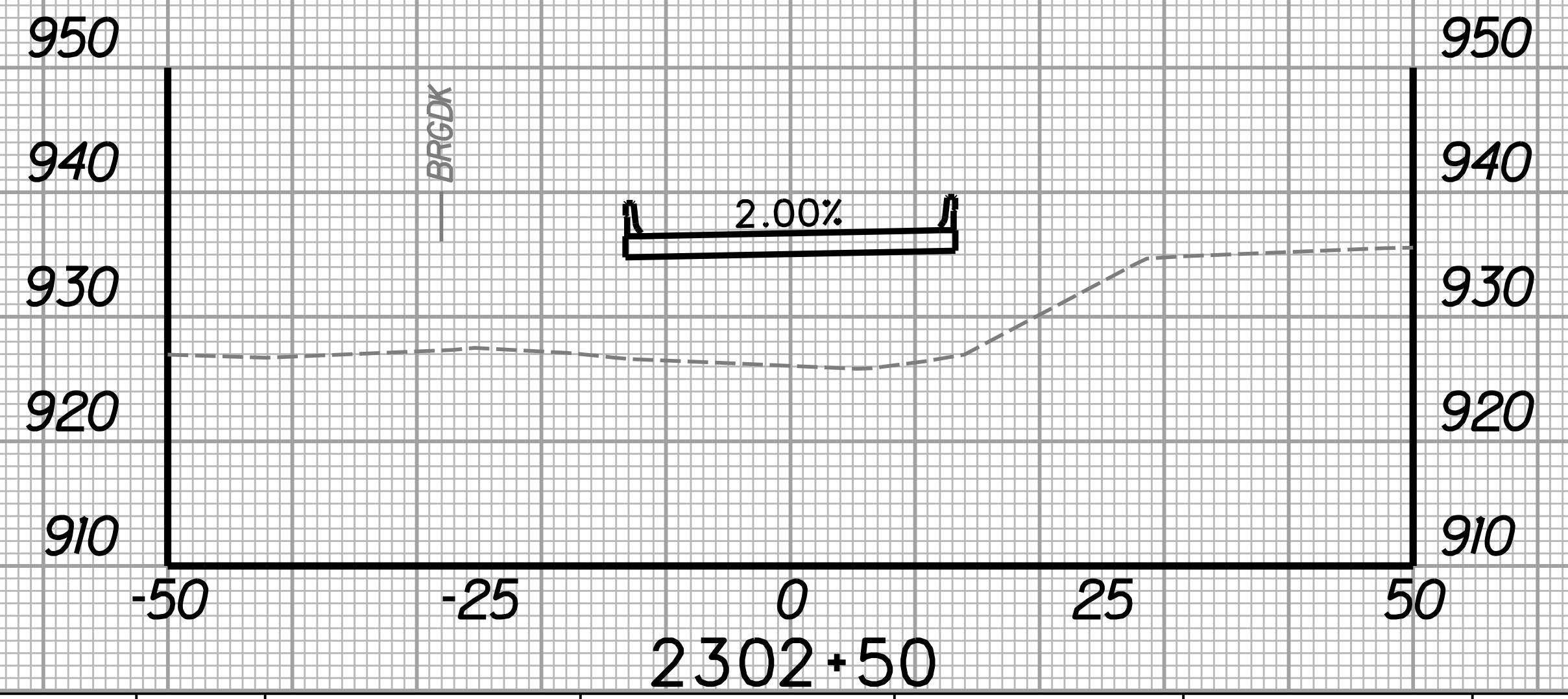
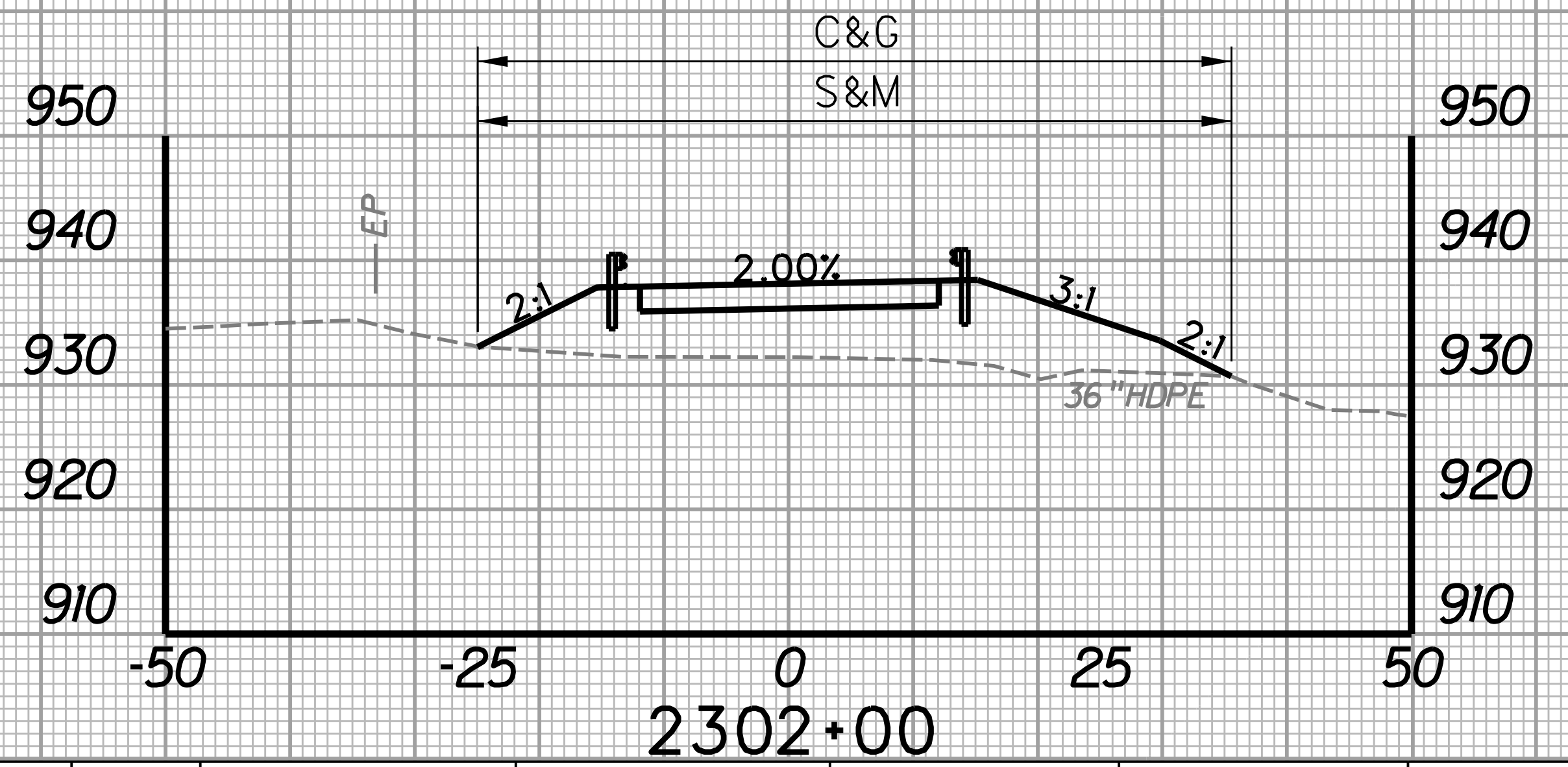
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

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STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
2302+00		60.5		60.5		0.0		219.2		0.0	
	25		756.3		756.3		0.0		101.5		0.0
2302+25		0.0		0.0		0.0		0.0		0.0	

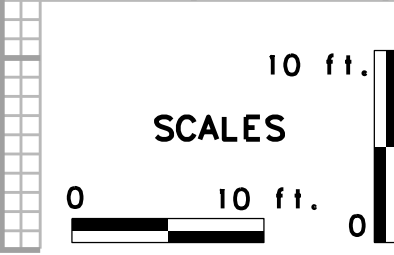
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		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
2302+50		0.0		0.0		0.0		0.0		0.0	
	25		0.0		0.0		0.0		0.0		0.0
2302+75		0.0		0.0		0.0		0.0		0.0	



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
2301+75		55.7		55.7		0.0		150.1		0.0	
	25		1452.5		1452.5		0.0		171.0		0.0
2302+00		60.5		60.5		0.0		219.2		0.0	

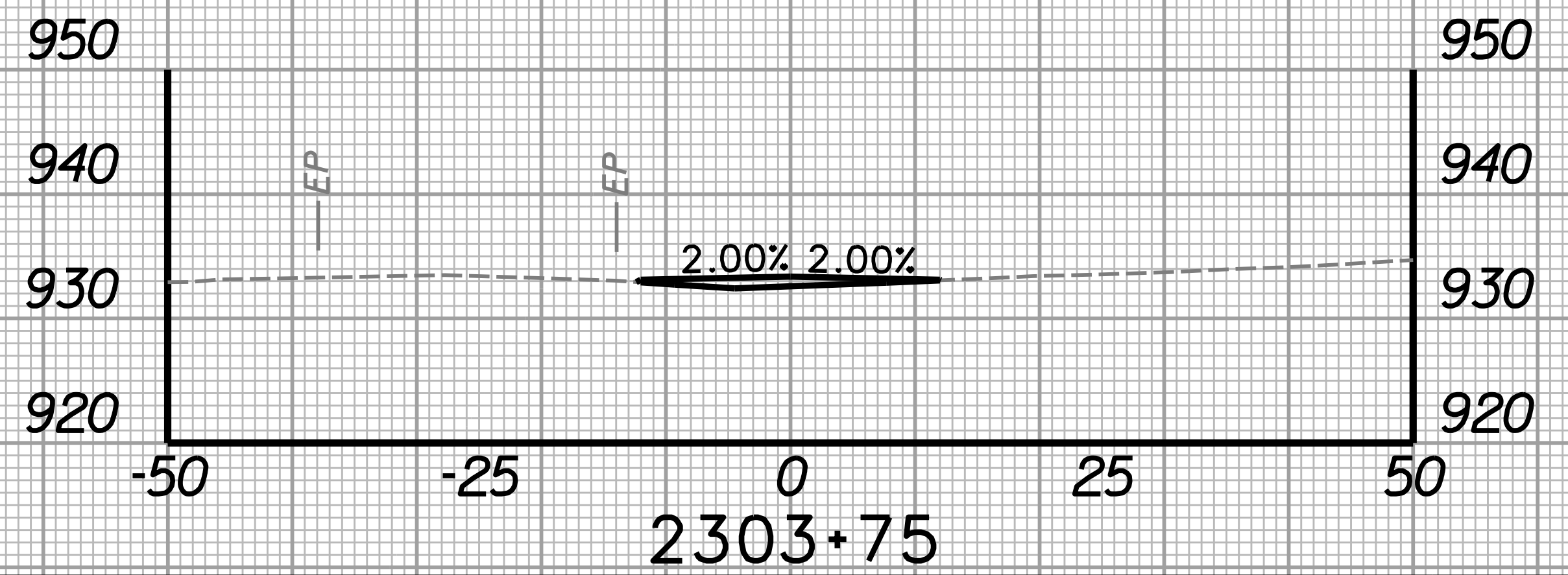
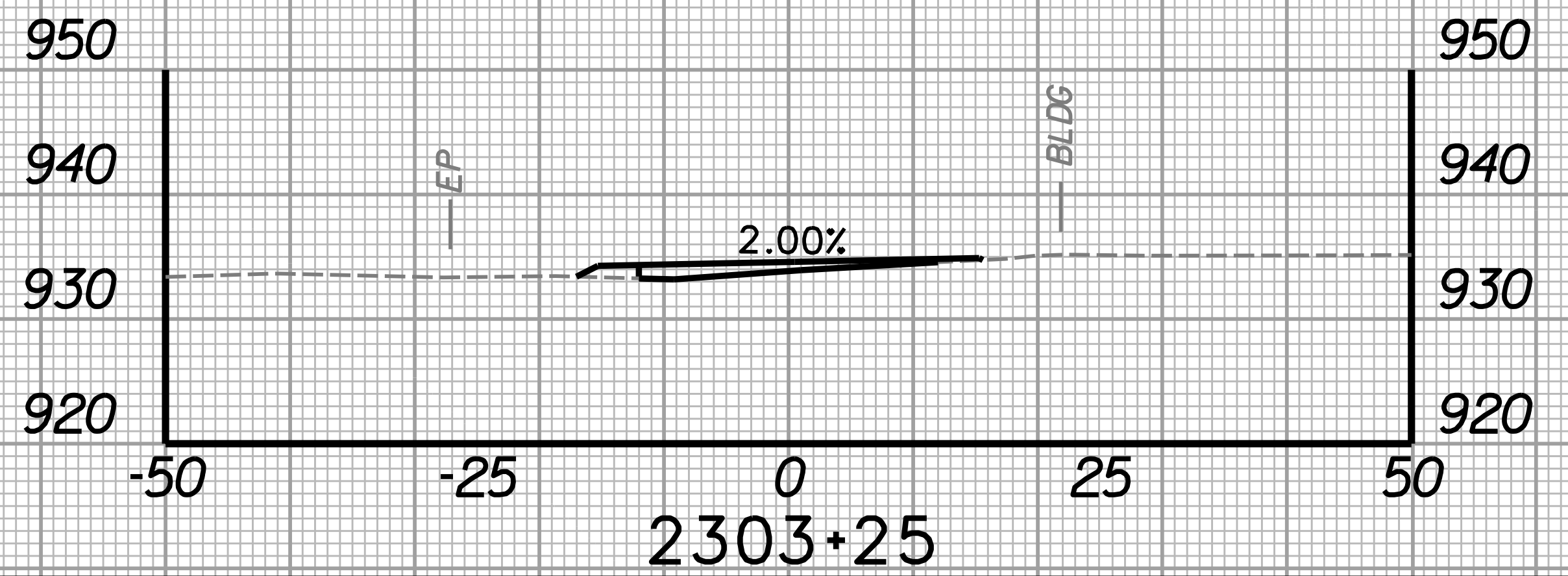
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
2302+25		0.0		0.0		0.0		0.0		0.0	
	25		0.0		0.0		0.0		0.0		0.0
2302+50		0.0		0.0		0.0		0.0		0.0	

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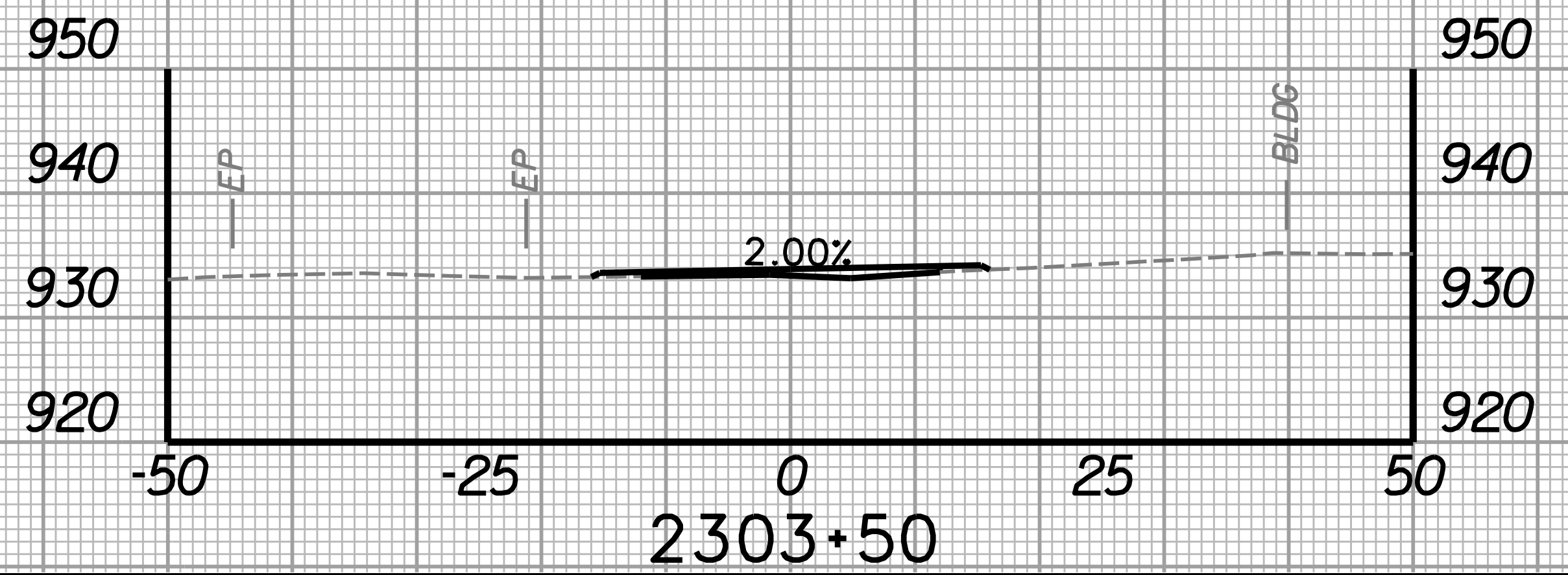
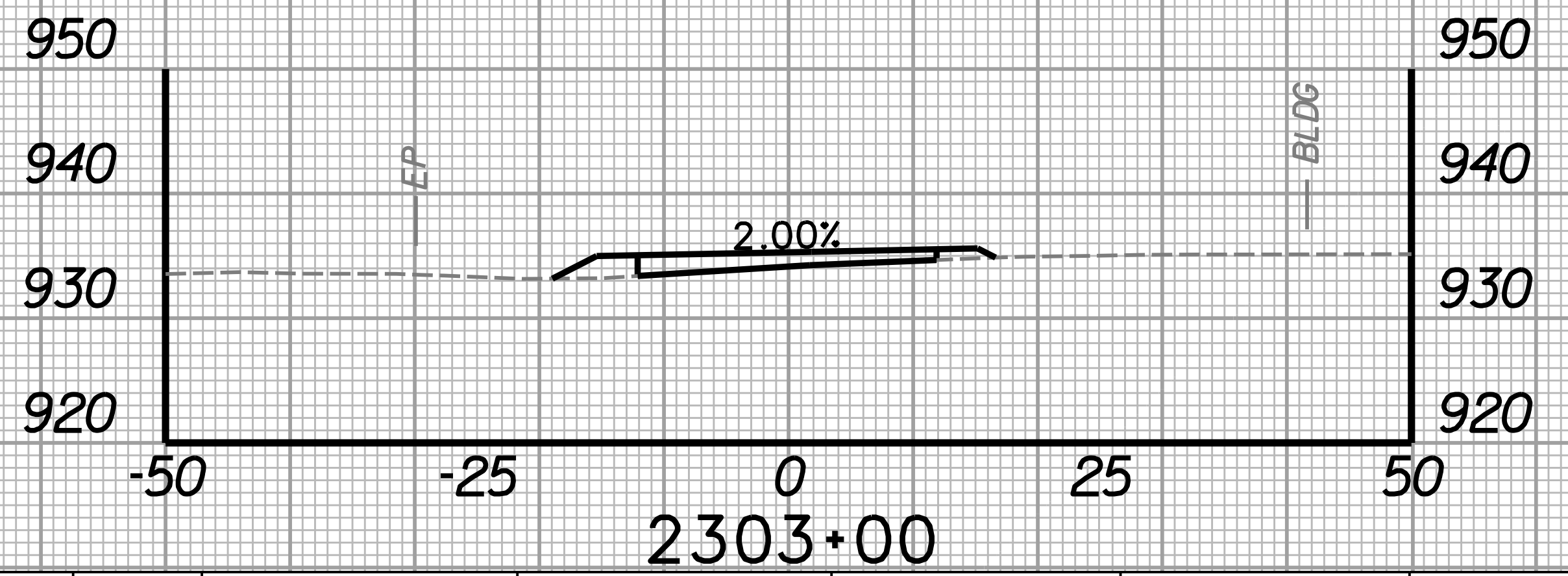
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DIVISION OF HIGHWAYS
CROSS-SECTION SHEET
TEMPORARY DETOUR



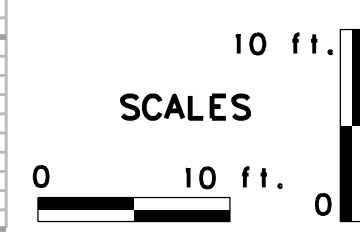
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		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
2303+00		0.0		0.0		0.0		0.0		0.0	
2303+25	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
2303+50		0.0		0.0		0.0		0.0		0.0	
2303+75	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
2302+75		0.0		0.0		0.0		0.0		0.0	
2303+00	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

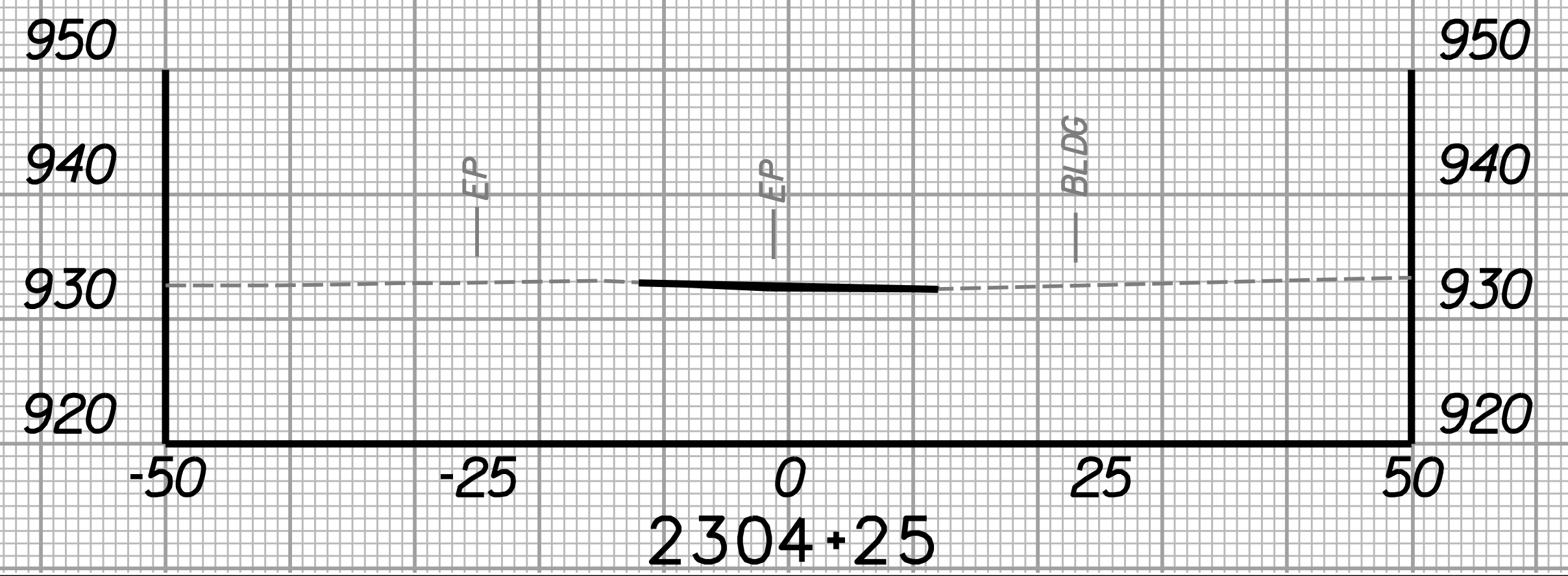
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		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
		FT	SF	FT	SF	SF	CY	SF	CY	SF	CY
2303+25		0.0		0.0		0.0		0.0		0.0	
2303+50	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



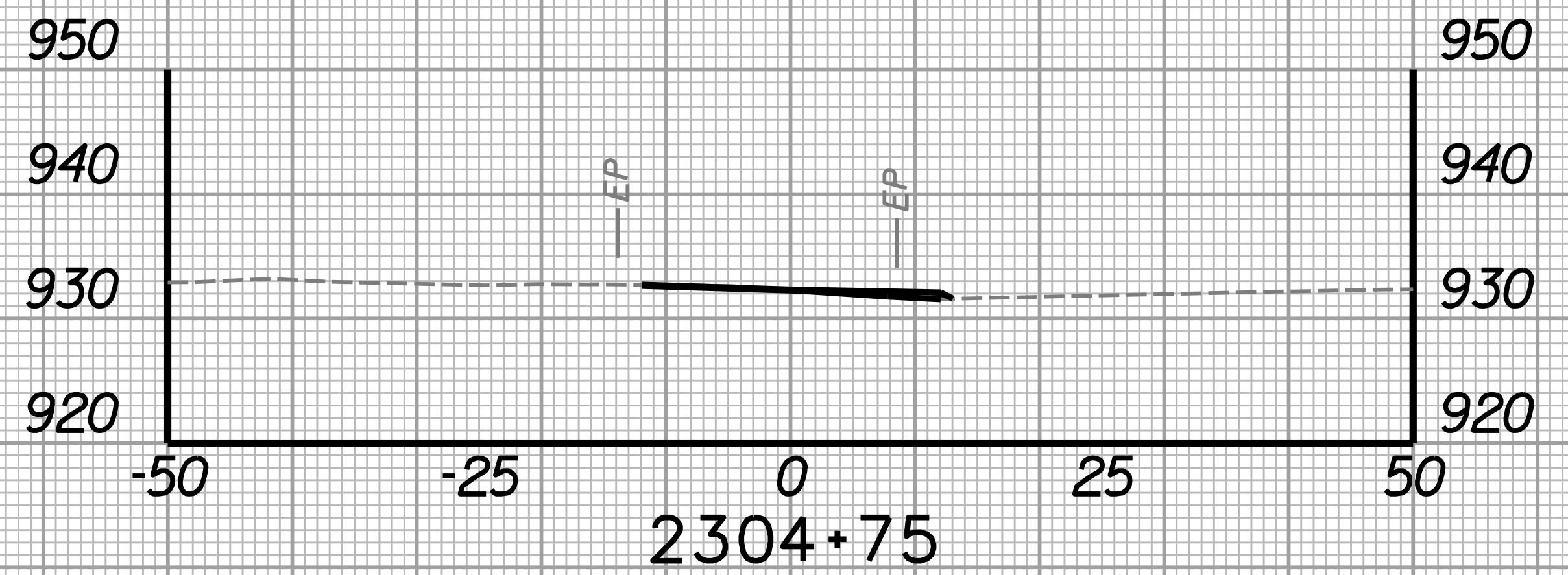
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DIVISION OF HIGHWAYS
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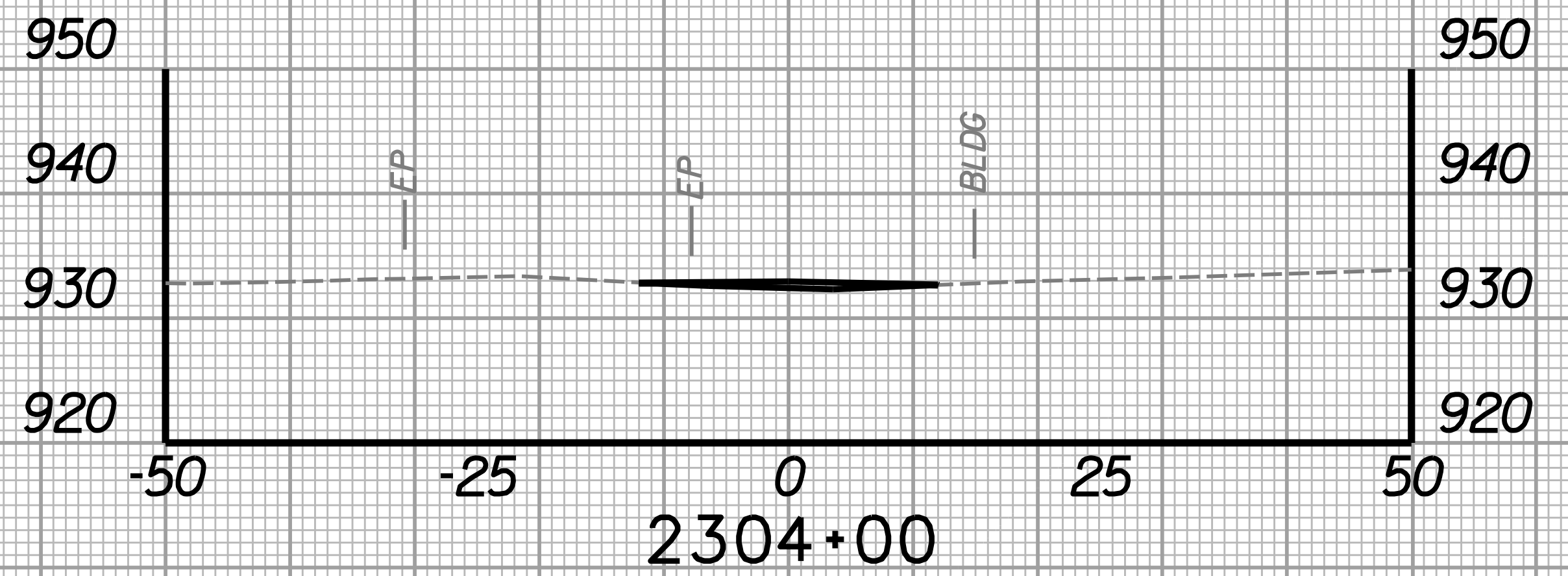
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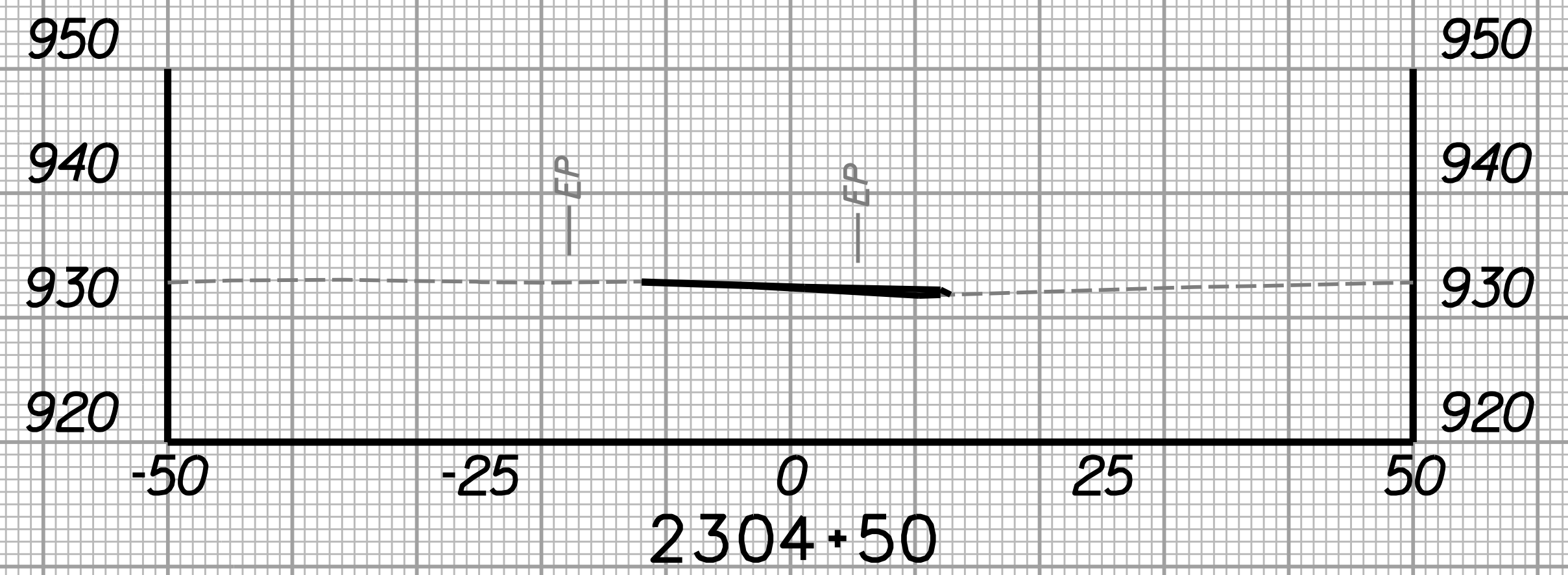
STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
	FT	SF	FT	SF	SF	CY	SF	CY	SF	CY	
2304+00		0.0		0.0		0.0		0.0		0.0	
2304+25	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



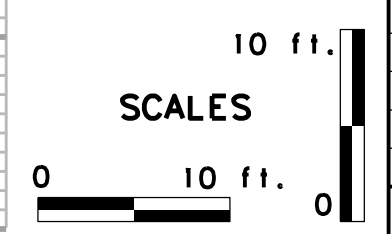
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		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
	FT	SF	FT	SF	SF	CY	SF	CY	SF	CY	
2304+50		0.0		0.0		0.0		0.0		0.0	
2304+75	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



STATION	LENGTH FT	SEEDING & MULCHING		CLEARING & GRUBBING		EXCAVATION		BORROW EXCAVATION		ROCK BORROW EXCAVATION	
		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
	FT	SF	FT	SF	SF	CY	SF	CY	SF	CY	
2303+75		0.0		0.0		0.0		0.0		0.0	
2304+00	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



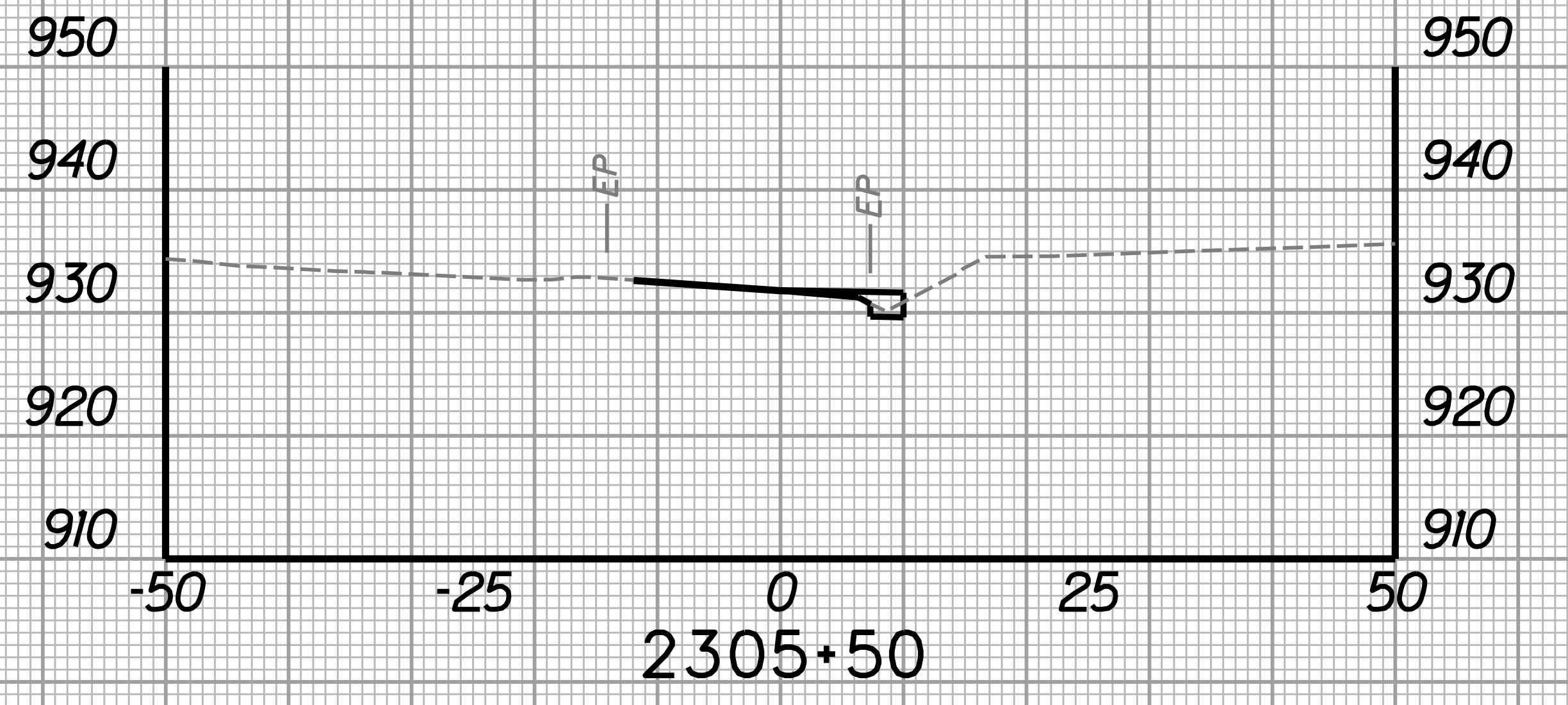
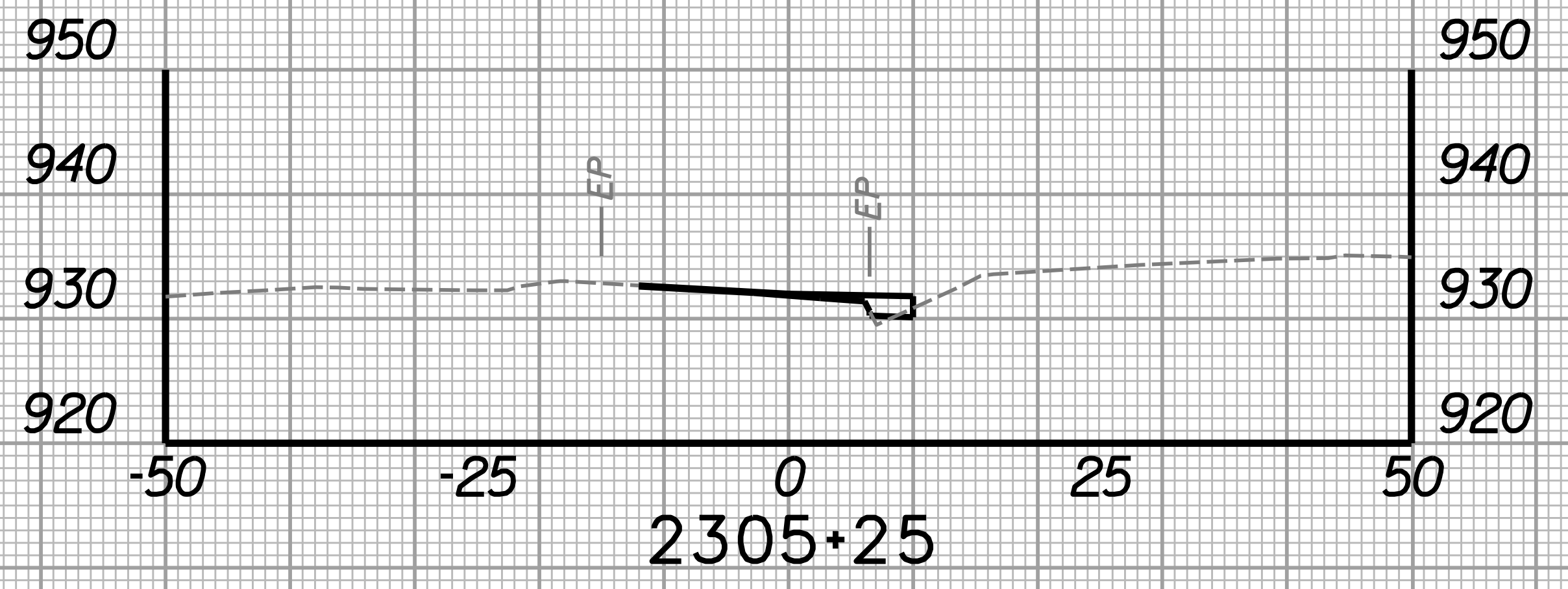
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		WIDTH	AREA	WIDTH	AREA	SF	CY	SF	CY	SF	CY
	FT	SF	FT	SF	SF	CY	SF	CY	SF	CY	
2304+25		0.0		0.0		0.0		0.0		0.0	
2304+50	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



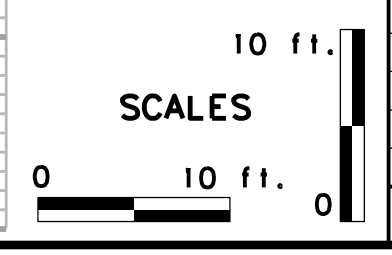
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Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W. V.	4	U331-50-00	NFA-2317 (023)D	2020	MONONGALIA	301	301



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