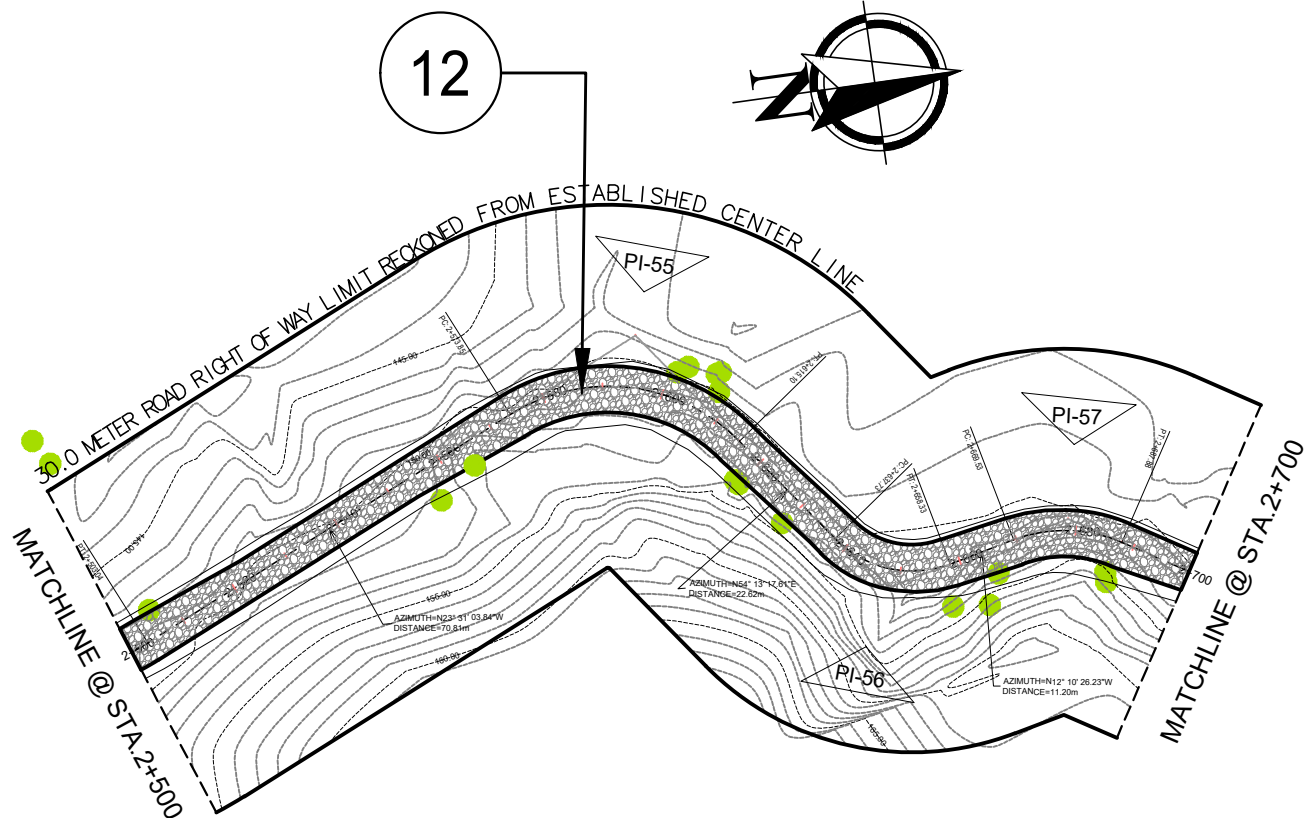
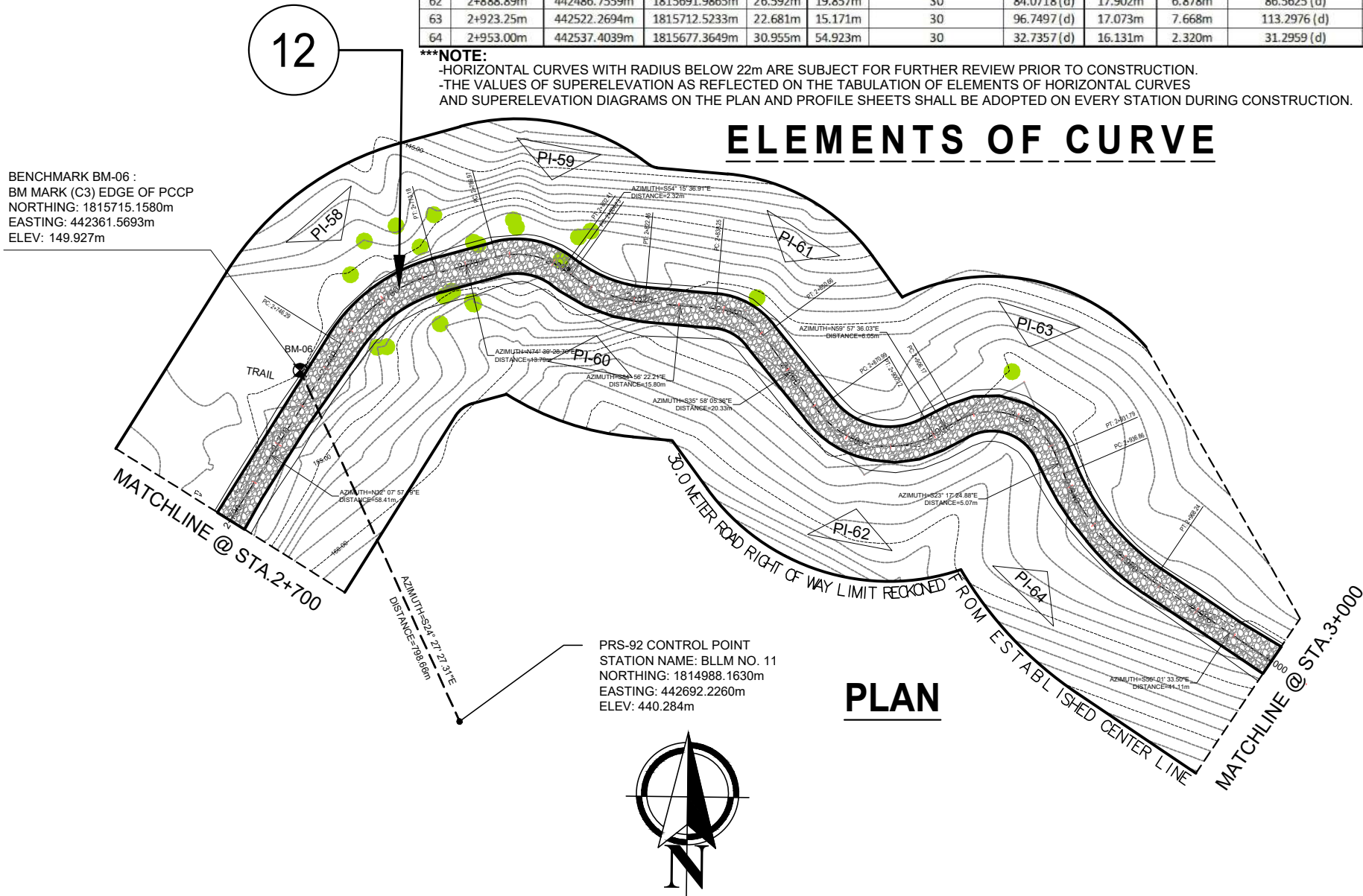


CONSTRUCTION OF ROAD, PAYACPAC-PALAKPAK-LUMES-APNE,
BARANGAY SAN PASCUAL, TUBA, BENGUET
MUNICIPALITY OF TUBA
PROVINCE OF BENGUET, PHILIPPINES

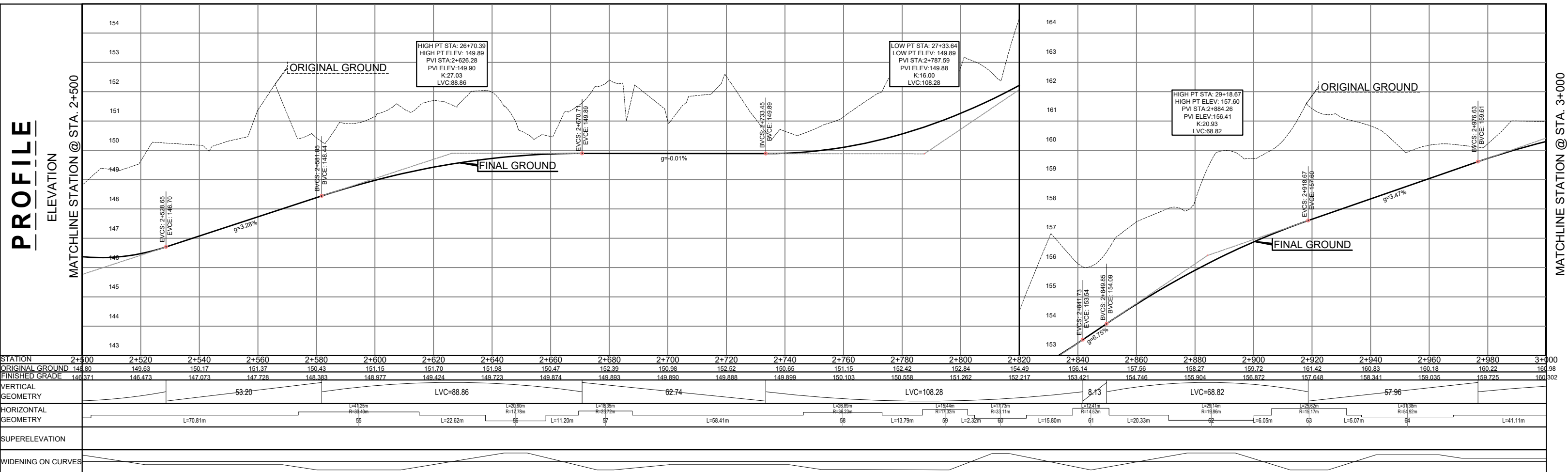


PLAN

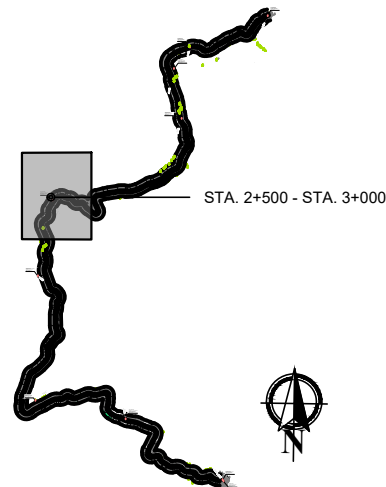


PLAN

12 - ITEM 102(2) : SURPLUS COMMON EXCAVATION ITEM 102(3)a: SURPLUS ROCK EXCAVATION (SOFT) ITEM 102(3)b: SURPLUS ROCK EXCAVATION (HARD ROCK) ITEM 103(1)a: STRUCTURE EXCAVATION (COMMON SOIL) ITEM 104(1)a: EMBANKMENT FROM ROADWAY/STRUCTURE EXCAVATION, COMMON SOIL					
STRUCTURE	AVE.WIDTH	NO. OF LANES	LENGTH	START STATION	END STATION
ROAD OPENING	6.70m MIN.	TWO LANES	500.00	STA. 2+500.00	STA. 3+000.00



PROFILE



SCALE	
PLAN 1:1250 MTS.	HORIZONTAL PROFILE GRID 1:1250 MTS. VERTICAL PROFILE GRID 1:125 MTS.
GRAPHICAL SCALE	
0 1m 5m 10m 25m 50m 100m	
1:1250 METERS	
0 1m 5m 10m 25m 50m	
1:1000 METERS	



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:

CONSTRUCTION OF ROAD, PAYACPAC -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET

TUBA, BENGUET

SHEET CONTENTS:

-SURVEY PLAN AND PROFILE
-ELEMENTS OF CURVE

DRAFTED:

MARK ANTHONY L. FERRER
ENGINEER II

PREPARED:

DEXTER G. BIALNO
ENGINEER II

REVIEWED:

EDISON C. AMBALES
ASSISTANT CHIEF
PLANNING AND DESIGN SECTION

DATE:

SUBMITTED:

ROMUALDO T. APALIAS
OIC-CHIEF
PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:

EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER

DATE:

APPROVED:

ISAGANI C. CAYME, CESE
DISTRICT ENGINEER

DATE:

SET NO.

PLAN AND
PROFILE
06 10

SHEET NO.

22
120

ABBREVIATIONS

LC	LENGTH OF HORIZONTAL CURVE
R	RADIUS OF CURVE
T	TANGENT DISTANCE
I	INTERSECTION ANGLE
W	WIDENING OF CURVE
E	EXTERNAL DISTANCE
e	SUPER ELEVATION (m./m.)
we	SUPER ELEVATION per LANE OF PAVEMENT
V	SPEED OR VELOCITY
MO	MIDDLE ORDINATE
D	DEGREE OF CURVATURE
PC	POINT OF CURVATURE
PT	POINT OF TANGENCY
LVC	LENGTH OF VERTICAL CURVATURE
PI	POINT OF INTERSECTION
EVCE	END OF VERTICAL CURVE ELEVATION
BVCS	BEG. OF VERTICAL CURVE STATION
PVIS	POINT OF VERTICAL INTERSECTION STATION
BVCE	BEG. OF VERTICAL CURVE ELEVATION
PVIE	POINT OF VERTICAL INTERSECTION ELEVATION
EVCS	END OF VERTICAL CURVE STATION

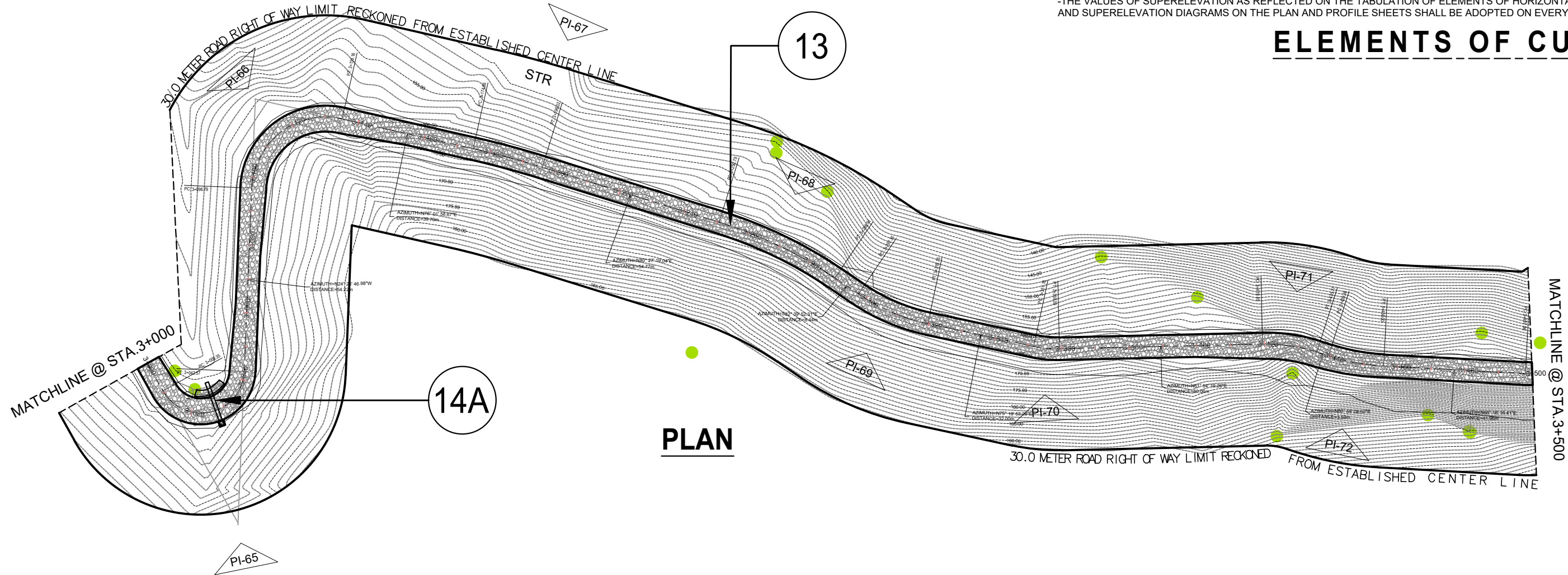
LEGEND

ELEVATION	MAJOR TOPOGRAPHY
STATION	MINOR TOPOGRAPHY
MATCHLINE @ STA. XX	ROAD ALIGNMENT
	MATCHLINE
	UNPAVED ROADWAY
	RIGHT OF WAY LIMIT
	PRS CONTROL POINT
BM-01	BENCHMARK
BH-01	BOREHOLE
PI-01	POINT OF INTERSECTION
	ROAD CONCRETING
	ROAD OPENING



CONSTRUCTION OF ROAD, PAYACPAC-PALAKPAK-LUMES-APNE, BARANGAY SAN PASCUAL, TUBA, BENGUET

MUNICIPALITY OF TUBA
PROVINCE OF BENGUET, PHILIPPINES



No.	PI Station	Easting	Northing	Chord length	Radius	Design Speed, V (kilometer/hour)	Delta angle	External Tangent	External Secant	Degree of Curvature by Arc	Widening on Curves
65	3+054.70m	442622.4775m	1815620.0381m	24.678m	12.823m	30	148.4204 (d)	45.345m	34.301m	134.0496 (d)	1.53m
66	3+123.09m	442570.3909m	1815734.6158m	33.637m	21.878m	30	100.4793 (d)	26.296m	12.329m	78.5647 (d)	0.98m
67	3+185.45m	442644.7106m	1815753.1004m	21.158m	274.189m	30	4.4223 (d)	10.587m	0.204m	6.2689 (d)	0.70m
68	3+269.99m	442728.0937m	1815767.1209m	37.975m	129.365m	30	16.8802 (d)	19.195m	1.416m	13.2870 (d)	4.20m
69	3+308.69m	442766.7547m	1815762.1439m	22.266m	58.337m	30	22.0040 (d)	11.342m	1.092m	29.4646 (d)	4.16m
70	3+355.59m	442812.3978m	1815774.0914m	7.622m	32.602m	30	13.4261 (d)	3.837m	0.225m	52.7236 (d)	1.16m
71	3+427.69m	442876.0300m	1815808.0602m	16.245m	49.008m	30	19.0803 (d)	8.236m	0.687m	35.0733 (d)	0.98m
72	3+447.73m	442895.9703m	1815811.2235m	16.594m	64.939m	30	14.6811 (d)	8.366m	0.537m	26.4689 (d)	0.99m

***NOTE:
-HORIZONTAL CURVES WITH RADIUS BELOW 22m ARE SUBJECT FOR FURTHER REVIEW PRIOR TO CONSTRUCTION.
-THE VALUES OF SUPERELEVATION AS REFLECTED ON THE TABULATION OF ELEMENTS OF HORIZONTAL CURVES AND SUPERELEVATION DIAGRAM ON THE PLAN AND PROFILE SHEETS SHALL BE ADOPTED ON EVERY STATION DURING CONSTRUCTION.

ELEMENTS OF CURVE

ABBREVIATIONS

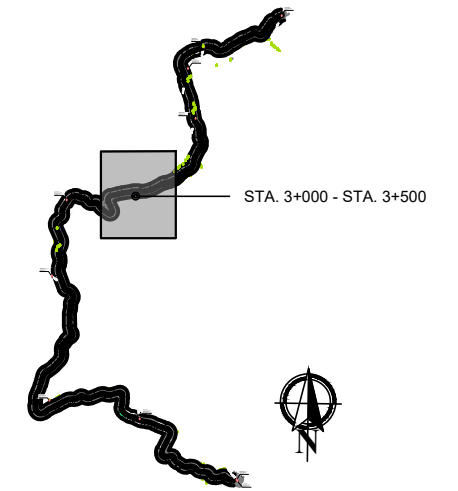
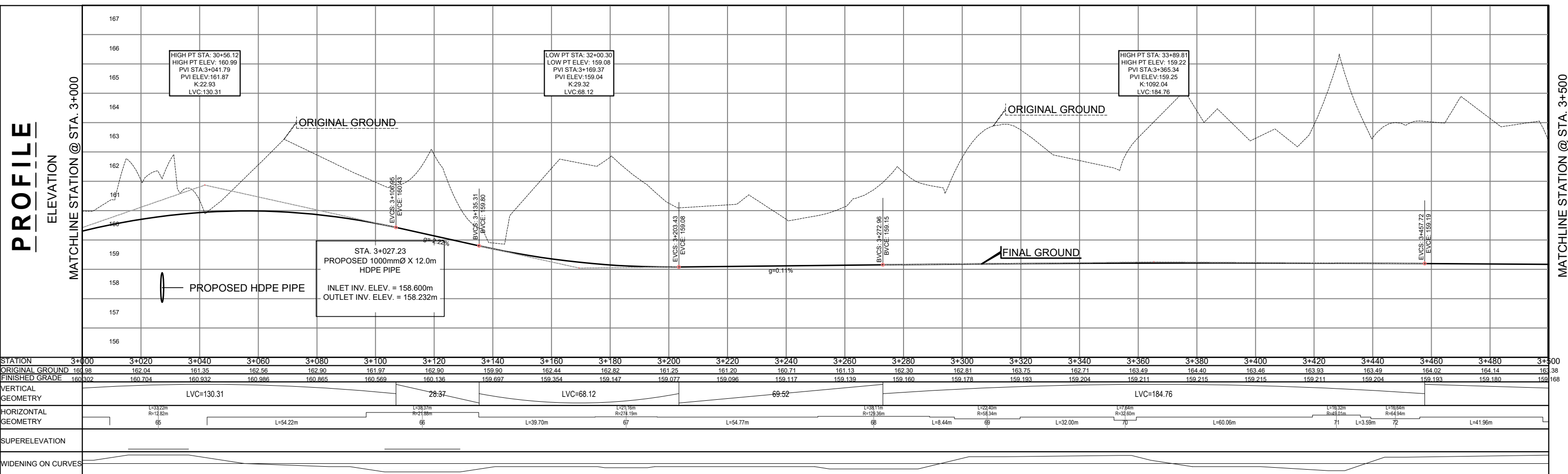
LC	LENGTH OF HORIZONTAL CURVE
R	RADIUS OF CURVE
T	TANGENT DISTANCE
I	INTERSECTION ANGLE
W	WIDENING OF CURVE
E	EXTERNAL DISTANCE
e	SUPER ELEVATION (m./m.)
we	SUPER ELEVATION per LANE OF PAVEMENT
V	SPEED OR VELOCITY
MO	MIDDLE ORDINATE
D	DEGREE OF CURVATURE
PC	POINT OF CURVATURE
PT	POINT OF TANGENCY
LVC	LENGTH OF VERTICAL CURVATURE
PI	POINT OF INTERSECTION
EVCE	END OF VERTICAL CURVE ELEVATION
BVCS	BEG. OF VERTICAL CURVE STATION
PVIS	POINT OF VERTICAL INTERSECTION STATION
BVCE	BEG. OF VERTICAL CURVE ELEVATION
PVIE	POINT OF VERTICAL INTERSECTION ELEVATION
EVCS	END OF VERTICAL CURVE STATION

LEGEND

— ELEVATION —	MAJOR TOPOGRAPHY
-----	MINOR TOPOGRAPHY
STATION	ROAD ALIGNMENT
MATCHLINE @ STA. XX	MATCHLINE
-----	UNPAVED ROADWAY
-----	RIGHT OF WAY LIMIT
-----	PRS CONTROL POINT
BM-01	BENCHMARK
BH-01	BOREHOLE
PI-01	POINT OF INTERSECTION
-----	ROAD CONCRETING
-----	ROAD OPENING

13 - ITEM 102(2) : SURPLUS COMMON EXCAVATION ITEM 102(3)a: SURPLUS ROCK EXCAVATION (SOFT) ITEM 102(3)b: SURPLUS ROCK EXCAVATION (HARD ROCK) ITEM 103(1)a: STRUCTURE EXCAVATION (COMMON SOIL) ITEM 104(1)a: EMBANKMENT FROM ROADWAY/STRUCTURE EXCAVATION, COMMON SOIL					
STRUCTURE	AVE.WIDTH	NO. OF LANES	LENGTH	START STATION	END STATION
ROAD OPENING	6.70m MIN.	TWO LANES	500.00	STA. 3+000.00	STA. 3+500.00

14 - ITEM 500(13) : HIGH-DENSITY POLYETHYLENE PIPE (STRUCTURAL WALL PIPE) ITEM 506(1) : STONE MASONRY					
	STRUCTURE	LENGTH	START STATION	END STATION	REMARKS
14A	STONE MASONRY HEADWALL	10.00	STA.3+022.73	STA.3+032.73	LEFT SIDE
	1000mmØ HDPE PIPE WITH INLET & 5 METER DISCHARGE FLUME	12.00	AT STA.3+027.33		



SCALE	
PLAN 1:1250 MTS.	HORIZONTAL PROFILE GRID 1:1250 MTS. VERTICAL PROFILE GRID 1:125 MTS.
GRAPHICAL SCALE	
0 1m 5m 10m 25m 50m 100m	
1:1250 METERS	
0 1m 5m 10m 25m 50m	
1:1000 METERS	



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:

CONSTRUCTION OF ROAD, PAYACPAC -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET

TUBA, BENGUET

SHEET CONTENTS:

-SURVEY PLAN AND PROFILE
-ELEMENTS OF CURVE

DRAFTED:

MARK ANTHONY L. FERRER
ENGINEER II

PREPARED:

DEXTER G. BIALNO
ENGINEER II

REVIEWED:

EDISON C. AMBALES
ASSISTANT CHIEF
PLANNING AND DESIGN SECTION

DATE:

SUBMITTED:

ROMUALDO T. APALIAS
OIC-CHIEF
PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:

EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER

DATE:

APPROVED:

ISAGANI C. CAYME, CESE
DISTRICT ENGINEER

DATE:

SET NO.

PLAN AND
PROFILE
07 10

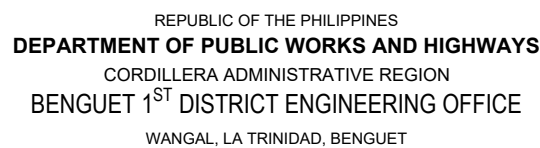
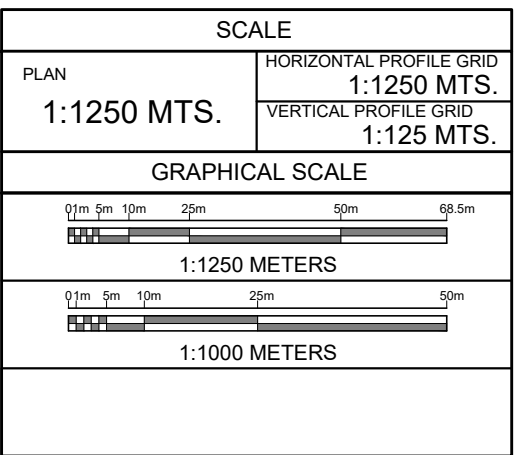
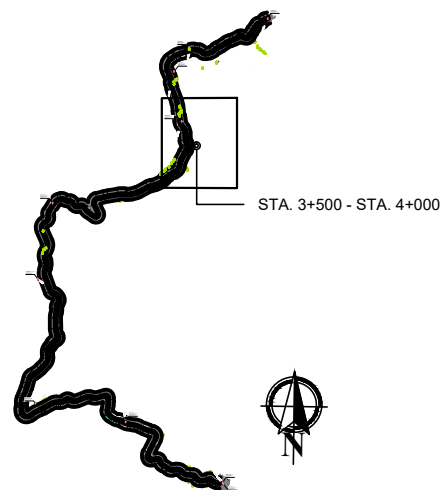
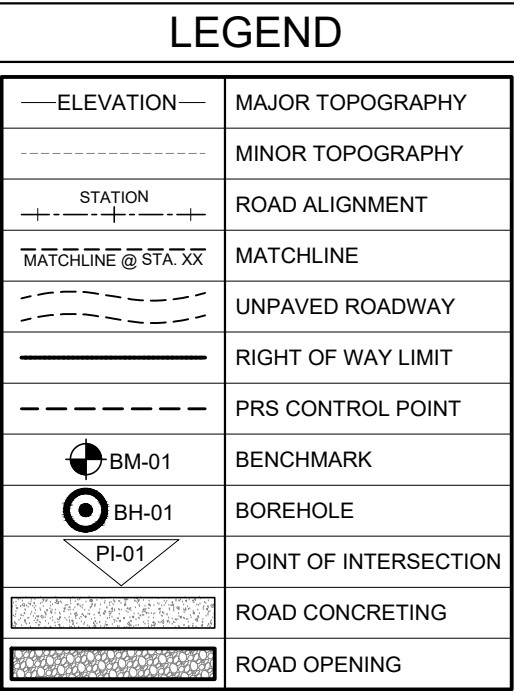
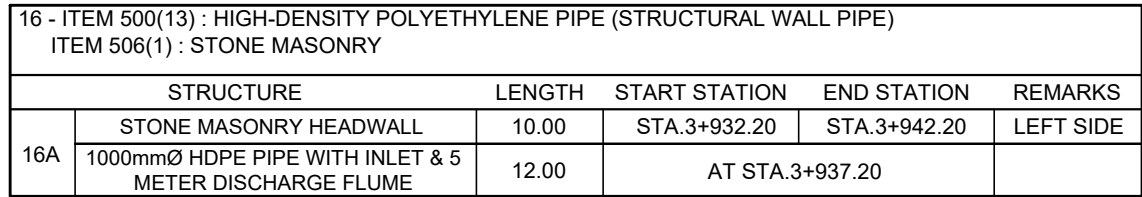
SHEET NO.

23
120



No.	PI Station	Easting	Northing	Chord length	Radius	Design Speed, V (kilometer/hour)	Delta angle	External Tangent	External Secant	Degree of Curvature by Arc	Widening on Curves
73	3+504.72m	442948.2876m	1815834.1842m	12.995m	21.655m	30	34.9230 (d)	6.812m	1.046m	79.3730 (d)	0.69m
74	3+523.74m	442958.3872m	1815850.7419m	13.399m	34.882m	30	12.1314 (d)	6.822m	0.661m	49.2770 (d)	1.06m
75	3+562.18m	442889.4271m	1815873.6944m	22.909m	101.619m	30	12.9441 (d)	11.528m	0.652m	16.1948 (d)	1.17m
76	3+606.00m	443029.6922m	1815891.2431m	34.168m	36.921m	30	55.1254 (d)	19.271m	4.722m	46.5557 (d)	4.06m
77	3+651.69m	443039.2633m	1815939.0041m	20.226m	78.985m	30	14.7123 (d)	10.197m	0.655m	21.7618 (d)	0.98m
78	3+708.95m	443064.4530m	1815990.5000m	11.058m	18.969m	30	3.0964 (d)	5.783m	0.861m	91.1410 (d)	0.67m
79	3+723.18m	443077.0912m	1815997.8055m	13.787m	13.677m	30	60.5434 (d)	7.982m	2.159m	125.6954 (d)	4.63m
80	3+757.17m	443076.8415m	1816033.3069m	8.960m	13.615m	30	39.7525 (d)	4.764m	0.835m	130.4486 (d)	1.30m
81	3+770.86m	443076.7164m	1816044.0686m	14.116m	22.767m	30	36.0719 (d)	7.423m	1.178m	75.3993 (d)	5.82m
82	3+830.66m	443063.4683m	1816104.0288m	25.229m	53.681m	30	27.1789 (d)	12.978m	1.546m	32.0164 (d)	1.51m
83	3+876.62m	443039.3636m	1816143.5064m	18.789m	38.415m	30	28.3075 (d)	9.688m	1.203m	44.7407 (d)	1.57m
84	3+904.83m	443037.8889m	1816172.4743m	14.085m	50.490m	30	16.1795 (d)	6.118m	1.034m	34.3468 (d)	1.02m
85	3+928.98m	443029.9398m	1816195.3853m	28.124m	115.965m	30	13.9624 (d)	14.167m	0.864m	18.5707 (d)	2.25m
86	3+981.97m	443025.1503m	1816248.7979m	15.531m	58.054m	30	15.3741 (d)	7.836m	0.526m	29.6081 (d)	2.34m

ELEMENTS OF CURVE



**CONSTRUCTION OF ROAD, PAYACPAC -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET**

- SURVEY PLAN AND PROFILE
- ELEMENTS OF CURVE

MARK ANTHONY L. FERRER
ENGINEER II

DEXTER G. BIALNO
ENGINEER II

EDISON C. AMBALES
ASSISTANT CHIEF
PLANNING AND DESIGN SECTION

ROMUALDO T. APALIAS
OIC-CHIEF
PLANNING AND DESIGN SECTION

EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER

ISAGANI C. CAYME, CESE
DISTRICT ENGINEER

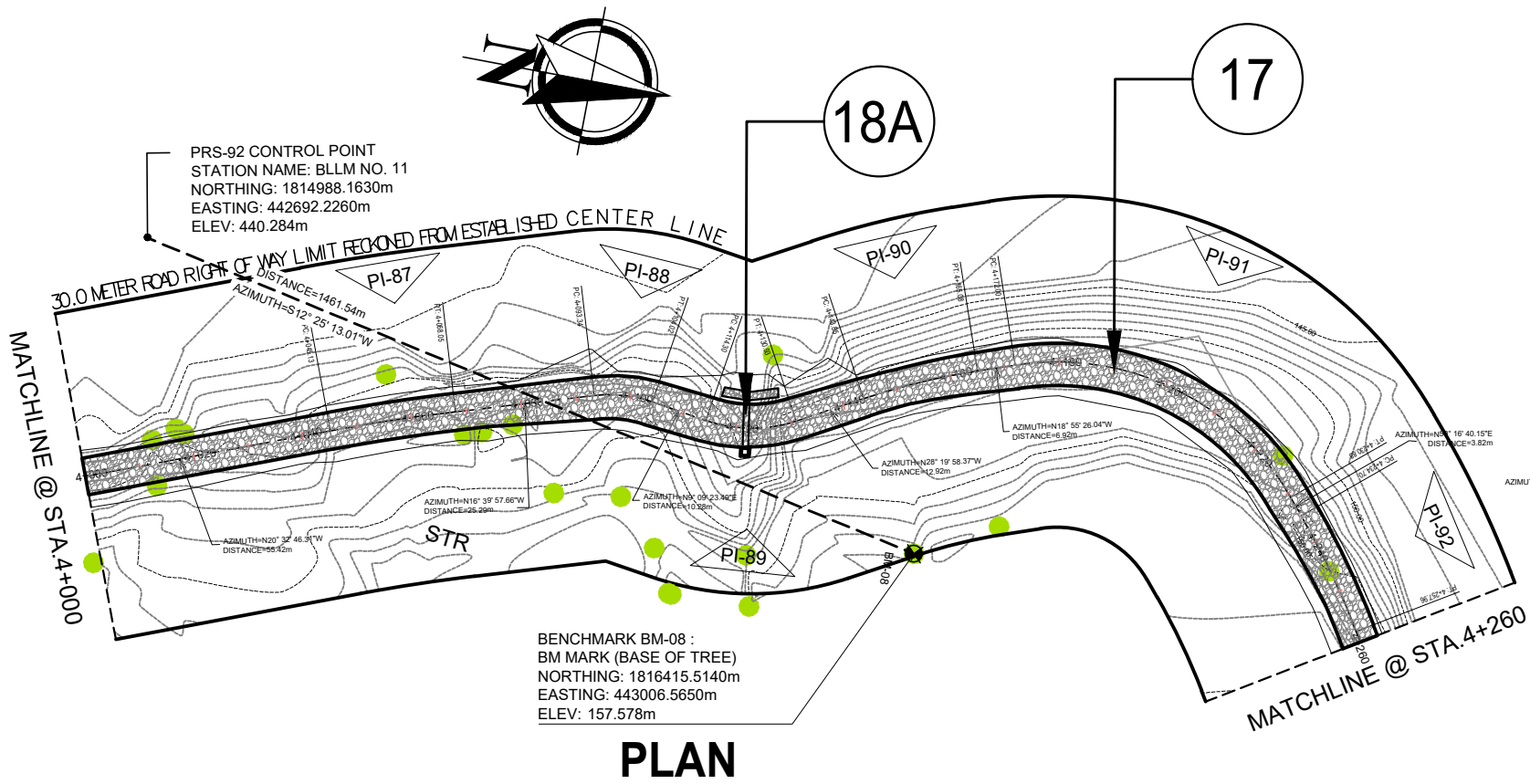
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PLAN AND

PROFILE	
08	10

120

CONSTRUCTION OF ROAD, PAYACPAC-PALAKPAK-LUMES-APNE,
BARANGAY SAN PASCUAL, TUBA, BENGUET
MUNICIPALITY OF TUBA
PROVINCE OF BENGUET, PHILIPPINES



PLAN

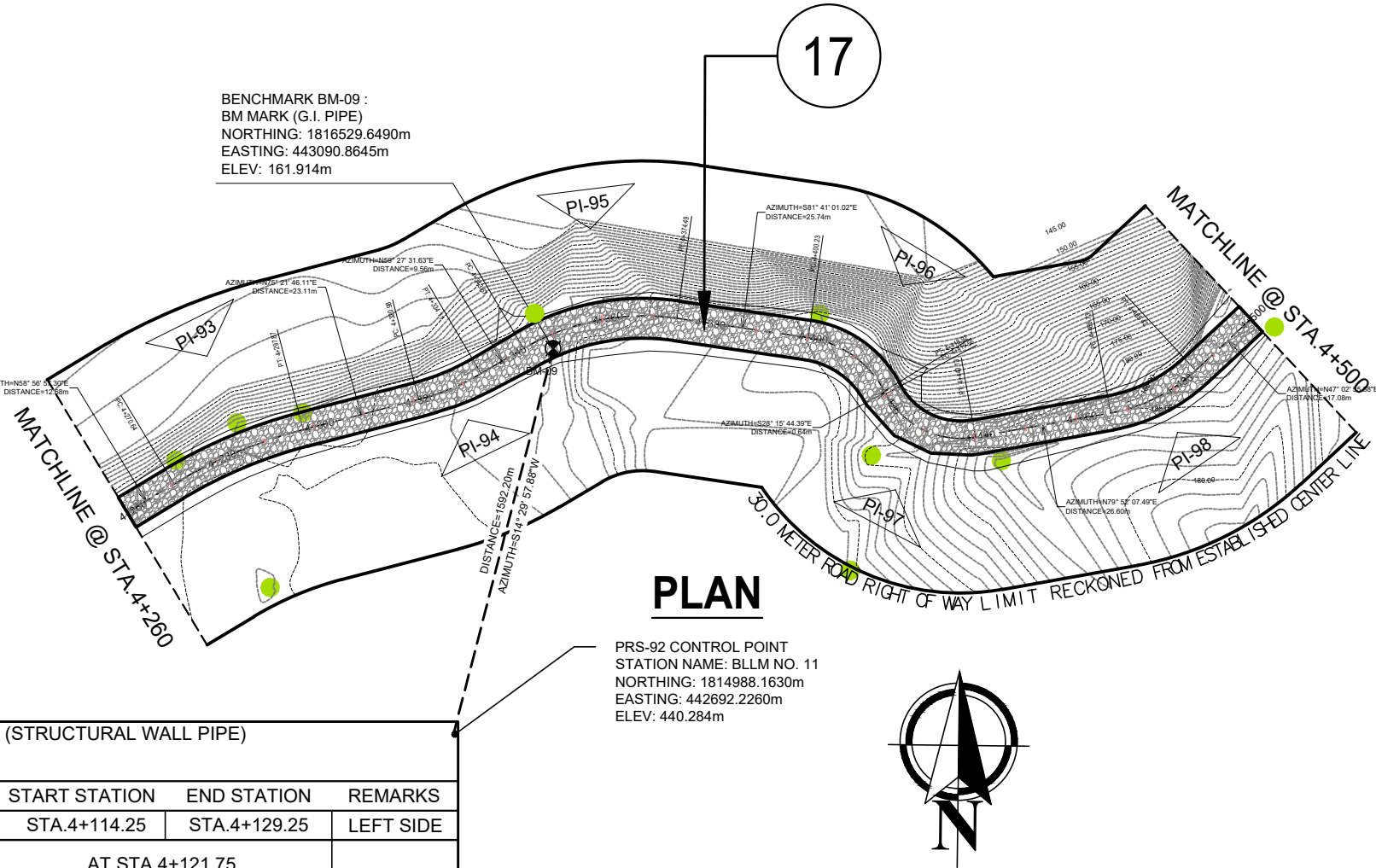
17 - ITEM 102(2) : SURPLUS COMMON EXCAVATION ITEM 102(3)a: SURPLUS ROCK EXCAVATION (SOFT) ITEM 102(3)b: SURPLUS ROCK EXCAVATION (HARD ROCK) ITEM 103(1)a: STRUCTURE EXCAVATION (COMMON SOIL) ITEM 104(1)a: EMBANKMENT FROM ROADWAY/STRUCTURE EXCAVATION, COMMON SOIL					
STRUCTURE	AVE.WIDTH	NO. OF LANES	LENGTH	START STATION	END STATION
ROAD OPENING	6.70m MIN.	TWO LANES	500.00	STA. 4+000.00	STA. 4+500.00

18 - ITEM 500(13) : HIGH-DENSITY POLYETHYLENE PIPE (STRUCTURAL WALL PIPE) ITEM 506(1) : STONE MASONRY					
STRUCTURE	LENGTH	START STATION	END STATION	REMARKS	
18A	STONE MASONRY HEADWALL	15.00	STA.4+114.25	STA.4+129.25	LEFT SIDE
	1000mmØ HDPE PIPE WITH INLET & 5 METER DISCHARGE FLUME	12.00	AT STA.4+121.75		

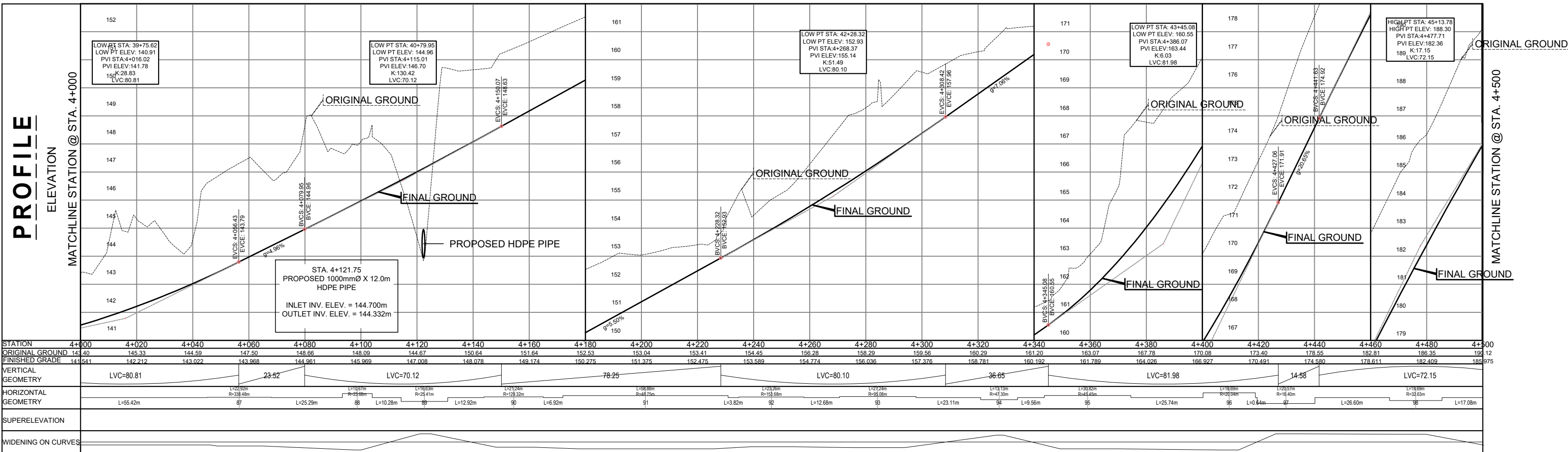
No.	PI Station	Easting	Northing	Chord length	Radius	Design Speed, V (kilometer/hour)	Delta angle	External Tangent	External Secant	Degree of Curvature by Arc	Widening on Curves
87	4+056.59m	442998.9273m	1816318.2626m	22.918m	338.476m	30	3.8802 (d)	11.466m	0.194m	5.0783 (d)	1.28m
88	4+098.77m	442986.8285m	1816358.6769m	10.583m	23.681m	30	25.8225 (d)	5.429m	0.614m	72.5851 (d)	0.96m
89	4+122.92m	442990.7011m	1816382.7025m	16.333m	25.413m	30	37.4894 (d)	8.624m	1.423m	67.6372 (d)	2.05m
90	4+154.49m	442975.4266m	1816411.0315m	21.212m	129.315m	30	9.4090 (d)	10.642m	0.437m	13.2921 (d)	1.01m
91	4+205.63m	442958.8254m	1816459.4536m	55.365m	48.749m	30	69.2017 (d)	33.631m	10.475m	35.2599 (d)	1.04m
92	4+246.35m	442996.5943m	1816490.8347m	23.236m	153.678m	30	8.6714 (d)	11.651m	0.441m	11.1849 (d)	0.83m
93	4+284.35m	443029.1856m	1816510.4568m	27.143m	95.075m	30	16.4136 (d)	13.712m	0.984m	18.0791 (d)	1.15m
94	4+327.59m	443071.2037m	1816521.4308m	13.087m	47.299m	30	15.9040 (d)	6.607m	0.459m	36.3409 (d)	1.30m
95	4+359.70m	443098.9333m	1816537.7917m	30.237m	45.451m	30	38.8576 (d)	16.032m	2.744m	37.8182 (d)	0.93m
96	4+410.32m	443150.2433m	1816530.2914m	18.016m	20.041m	30	53.4213 (d)	10.084m	2.394m	85.7695 (d)	1.49m
97	4+431.44m	443160.9492m	1816510.3771m	19.249m	16.400m	30	71.8689 (d)	11.887m	3.855m	104.8078 (d)	1.87m
98	4+476.34m	443208.2983m	1816518.8379m	18.435m	32.627m	30	32.8199 (d)	9.609m	1.385m	52.6832 (d)	1.39m

***NOTE:
-HORIZONTAL CURVES WITH RADIUS BELOW 22m ARE SUBJECT FOR FURTHER REVIEW PRIOR TO CONSTRUCTION.
-THE VALUES OF SUPERELEVATION AS REFLECTED ON THE TABULATION OF ELEMENTS OF HORIZONTAL CURVES
AND SUPERELEVATION DIAGRAMS ON THE PLAN AND PROFILE SHEETS SHALL BE ADOPTED ON EVERY STATION DURING CONSTRUCTION.

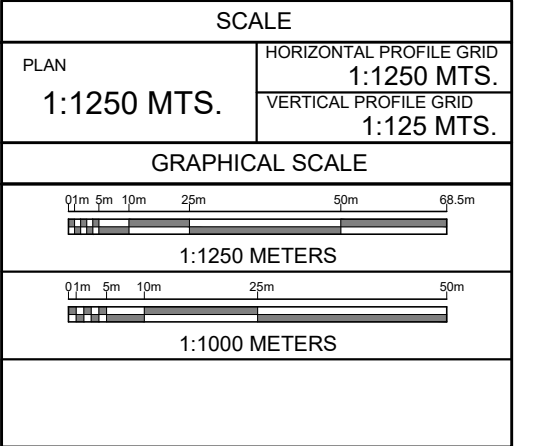
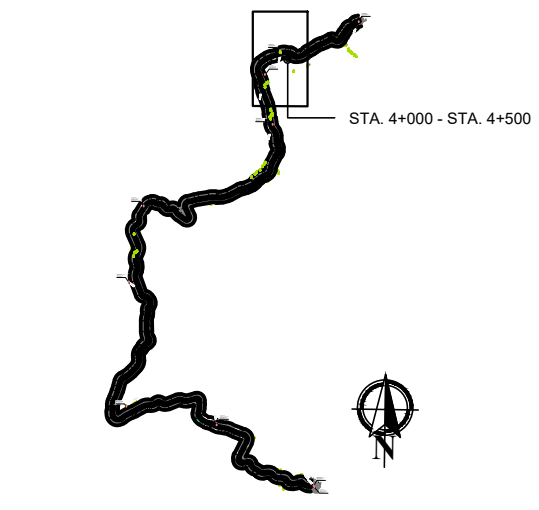
ELEMENTS OF CURVE



PLAN



PROFILE



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:
CONSTRUCTION OF ROAD, PAYACPAC -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET
TUBA, BENGUET

SHEET CONTENTS:
-SURVEY PLAN AND PROFILE
-ELEMENTS OF CURVE

DRAFTED:
MARK ANTHONY L. FERRER
ENGINEER II
PREPARED:
DEXTER G. BIALNO
ENGINEER II

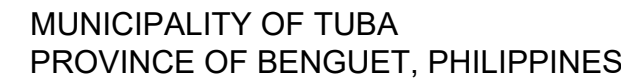
REVIEWED:
EDISON C. AMBALES
ASSISTANT CHIEF
PLANNING AND DESIGN SECTION
DATE:

SUBMITTED:
ROMUALDO T. APALIAS
OIC-CHIEF
PLANNING AND DESIGN SECTION
DATE:

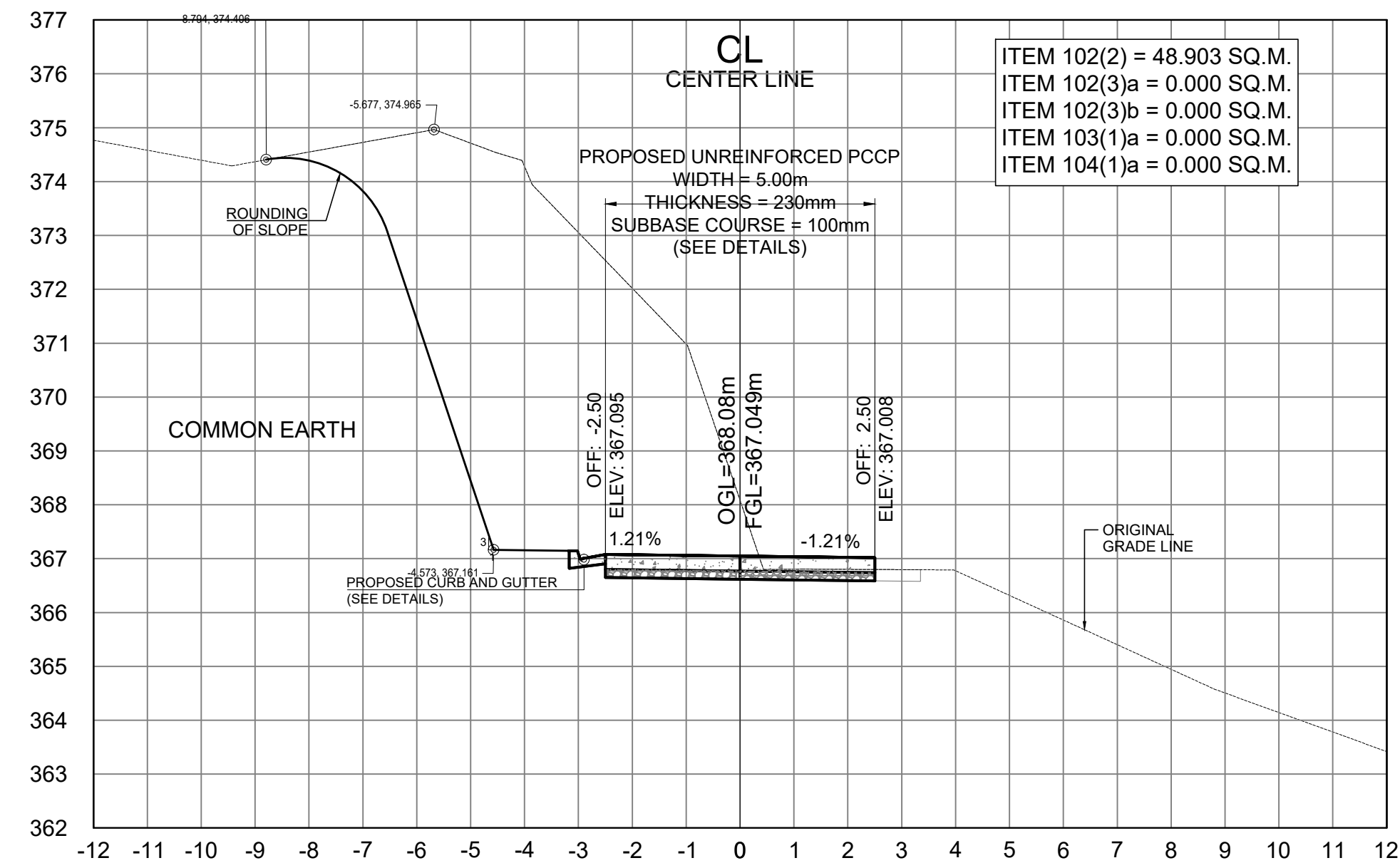
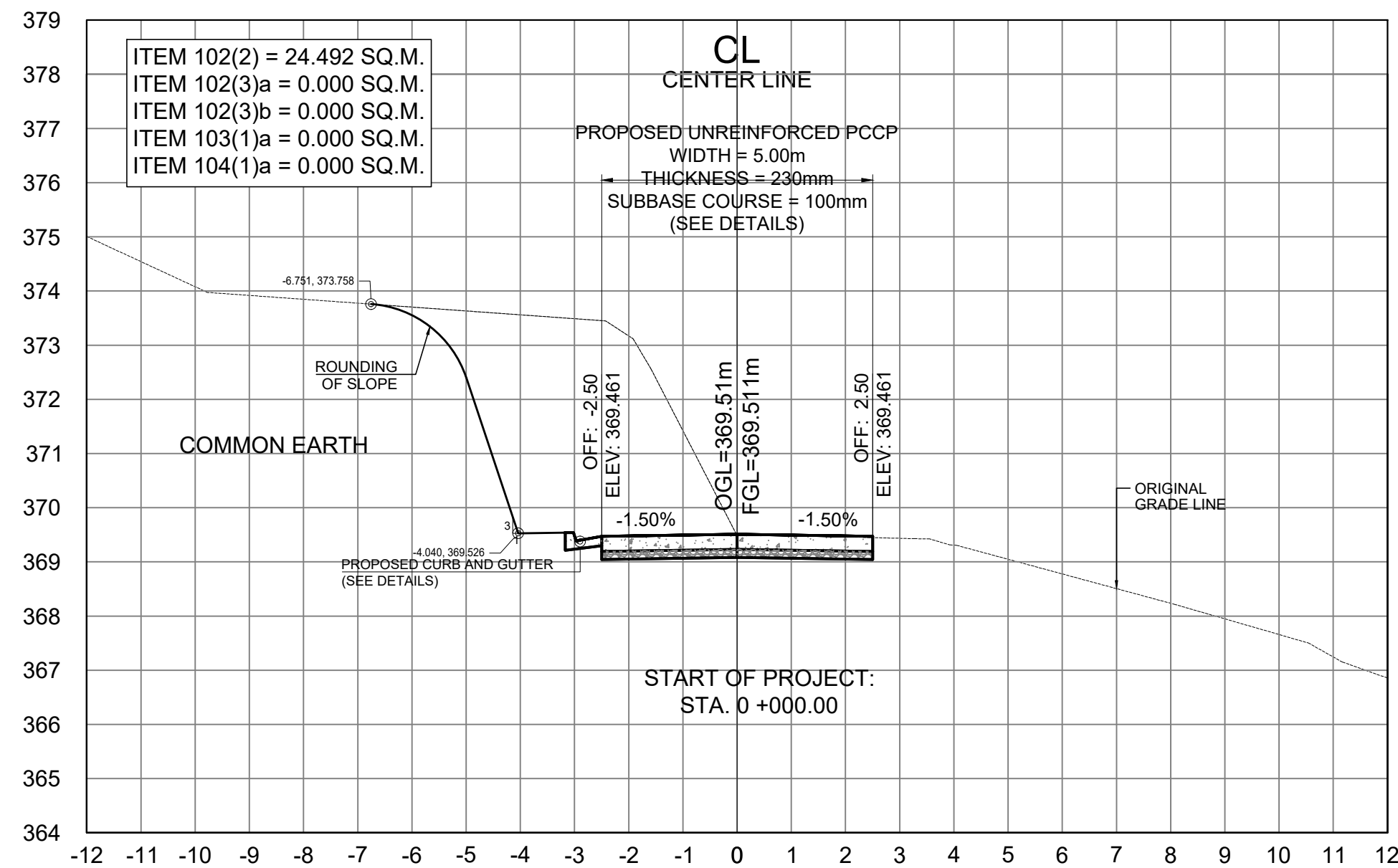
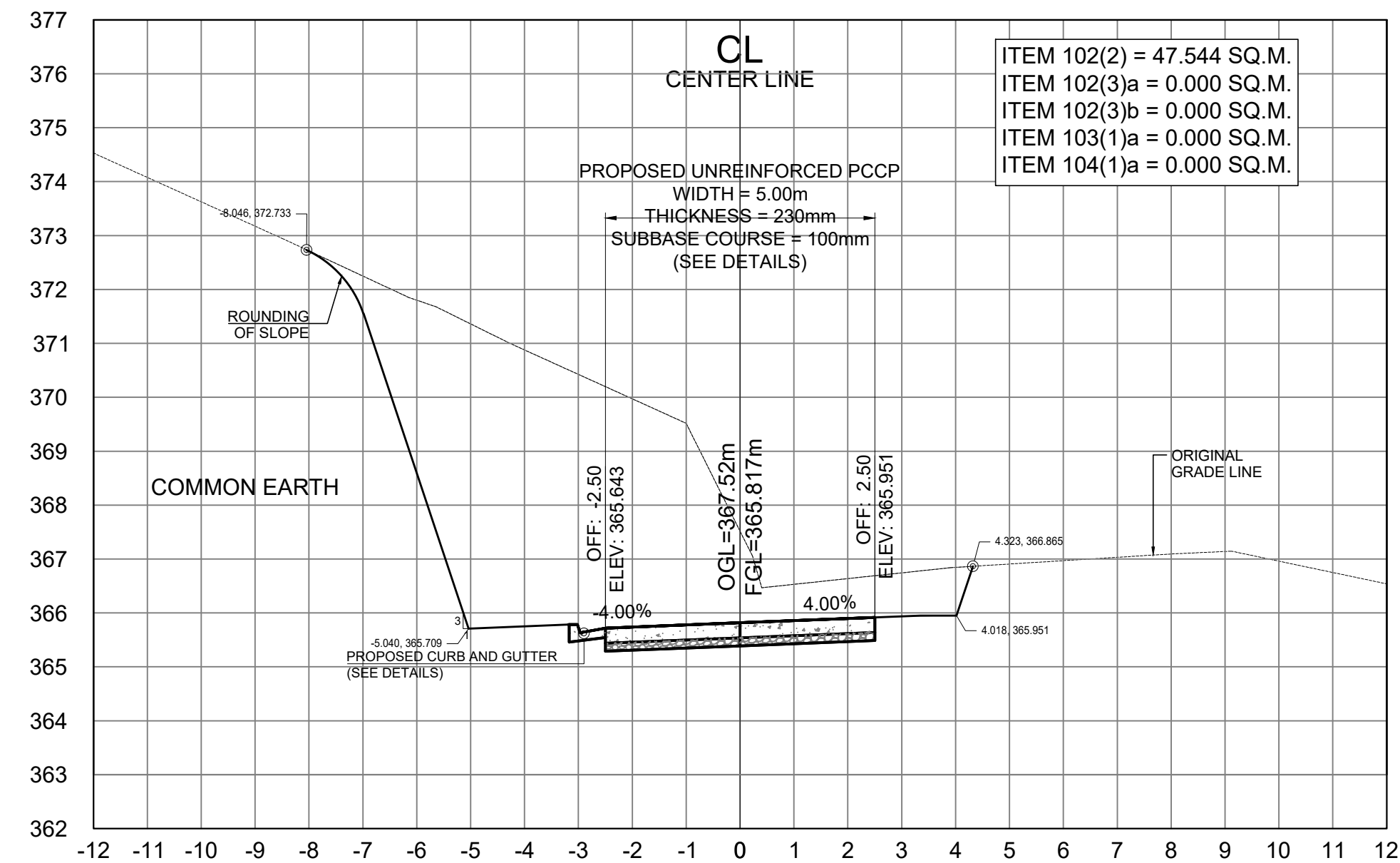
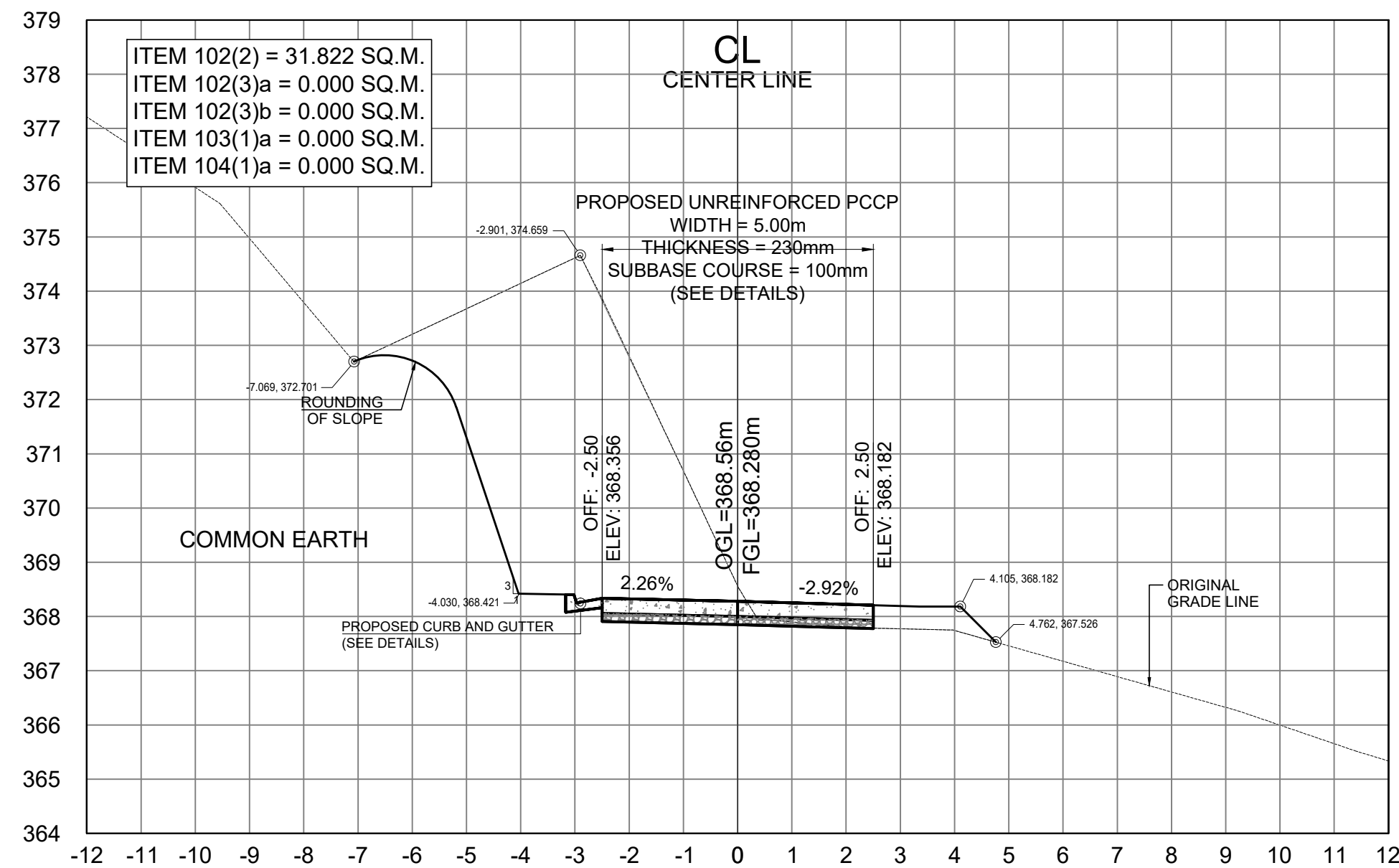
RECOMMENDED:
EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER
DATE:

APPROVED:
ISAGANI C. CAYME, CESE
DISTRICT ENGINEER
DATE:

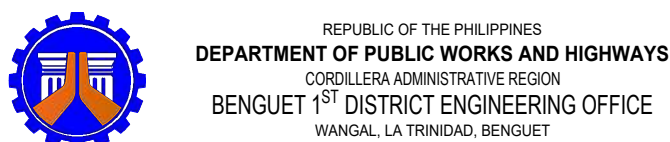
SET NO.
PLAN AND PROFILE
09 10
SHEET NO.
25
120



No.	PI Station	Easting	Northing	Chord length	Radius	Design Speed, V (kilometer/hour)	Delta angle	External Tangent	External Secant	Degree of Curvature by Arc	Widening on Curves
99	4+509.19m	443232.7284m	1816541.5804m	13.135m	34.031m	30	22.2538 (d)	6.693m	0.652m	50.5084 (d)	1.02m
100	4+527.19m	443249.7215m	1816548.0066m	13.454m	57.252m	30	13.4960 (d)	6.774m	0.399m	30.0230 (d)	1.29m
101	4+579.86m	443293.3431m	1816577.6384m	24.802m	75.254m	30	18.9702 (d)	12.573m	1.043m	22.8409 (d)	0.84m
102	4+604.37m	443317.2125m	1816584.1339m	17.551m	78.205m	30	12.8858 (d)	8.831m	0.497m	21.9792 (d)	2.85m
103	4+656.02m	443362.8386m	1816608.5051m	12.169m	12.444m	30	8.5453 (d)	6.975m	1.822m	138.1318 (d)	1.60m
104	4+695.72m	443398.1324m	1816587.7683m	23.255m	15.960m	30	93.5311 (d)	16.975m	7.340m	107.6993 (d)	2.53m
105	4+729.02m	443416.7747m	1816624.5058m	27.883m	212.695m	30	7.5166 (d)	13.972m	0.458m	8.0814 (d)	1.50m
106	4+789.23m	443450.8342m	1816674.2077m	15.788m	19.251m	30	48.4154 (d)	8.655m	1.856m	89.2874 (d)	0.87m
107	4+814.89m	443477.3226m	1816677.5364m	12.394m	12.726m	30	58.2842 (d)	7.095m	1.844m	135.0721 (d)	4.57m
108	4+833.68m	443485.6479m	1816695.7599m	7.828m	9.568m	30	48.2939 (d)	4.289m	0.918m	179.6741 (d)	1.644m



SCALE	
CROSS SECTIONS	1:100 MTS.



PROJECT NAME AND LOCATION:
**CONSTRUCTION OF ROAD, PAYACPAC -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET**

TUBA, BENGUET

SHEET CONTENTS:
- CROSS SECTION

DRAFTED:
DIANE B. ABAYAO ENGINEER II
CYRUS P. MENDOZA ENGINEERING ASSISTANT

PREPARED:
DEXTER G. BIALNO ENGINEER II

REVIEWED:
EDISON C. AMBALES ENGINEER II

DATE:

SUBMITTED:
ROMUALDO T. APALIAS OIC-CHIEF
PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:
EDGARDO G. ENRIQUEZ ASSISTANT DISTRICT ENGINEER

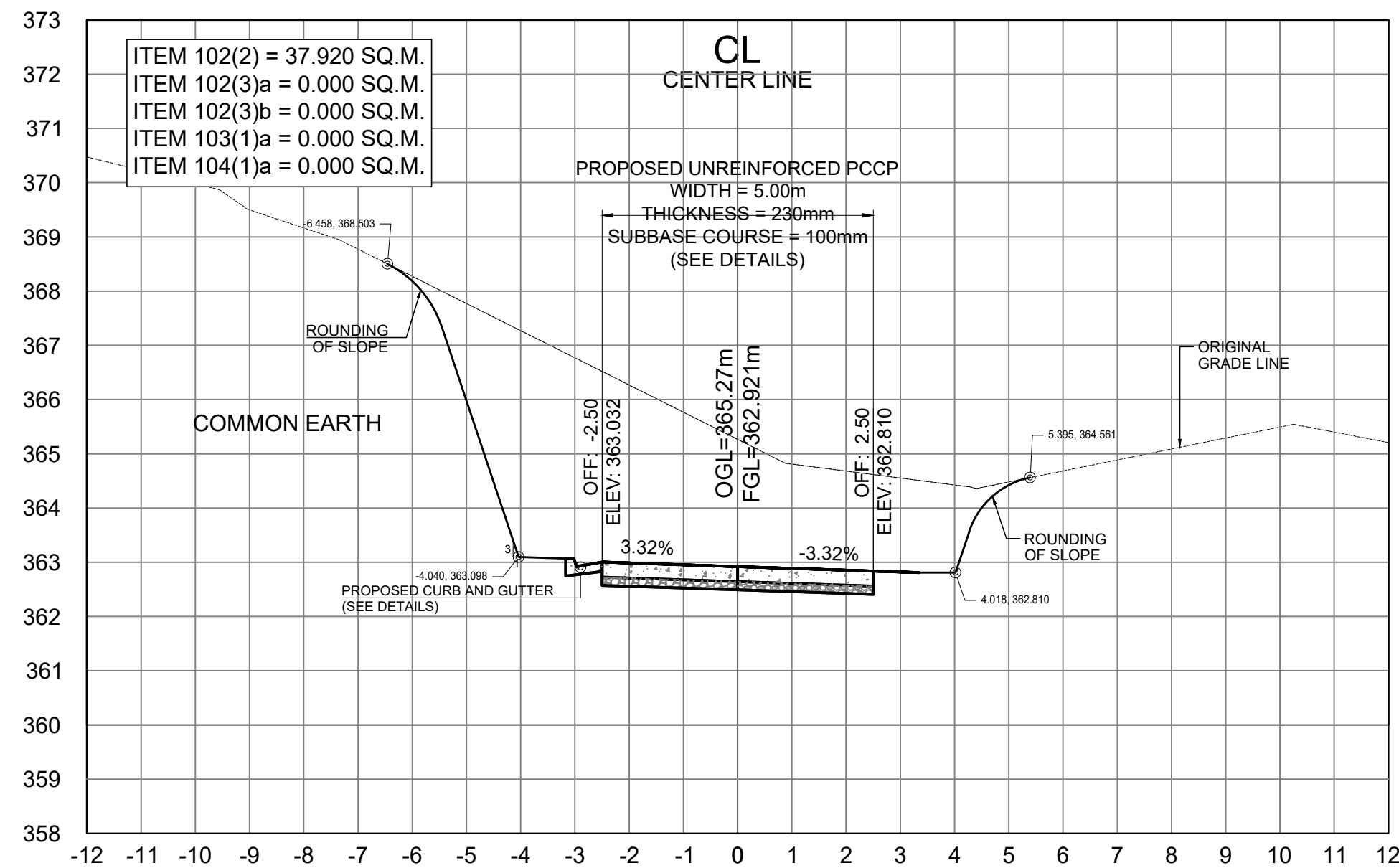
DATE:

APPROVED:
ISAGANI C. CAYME, CESE DISTRICT ENGINEER

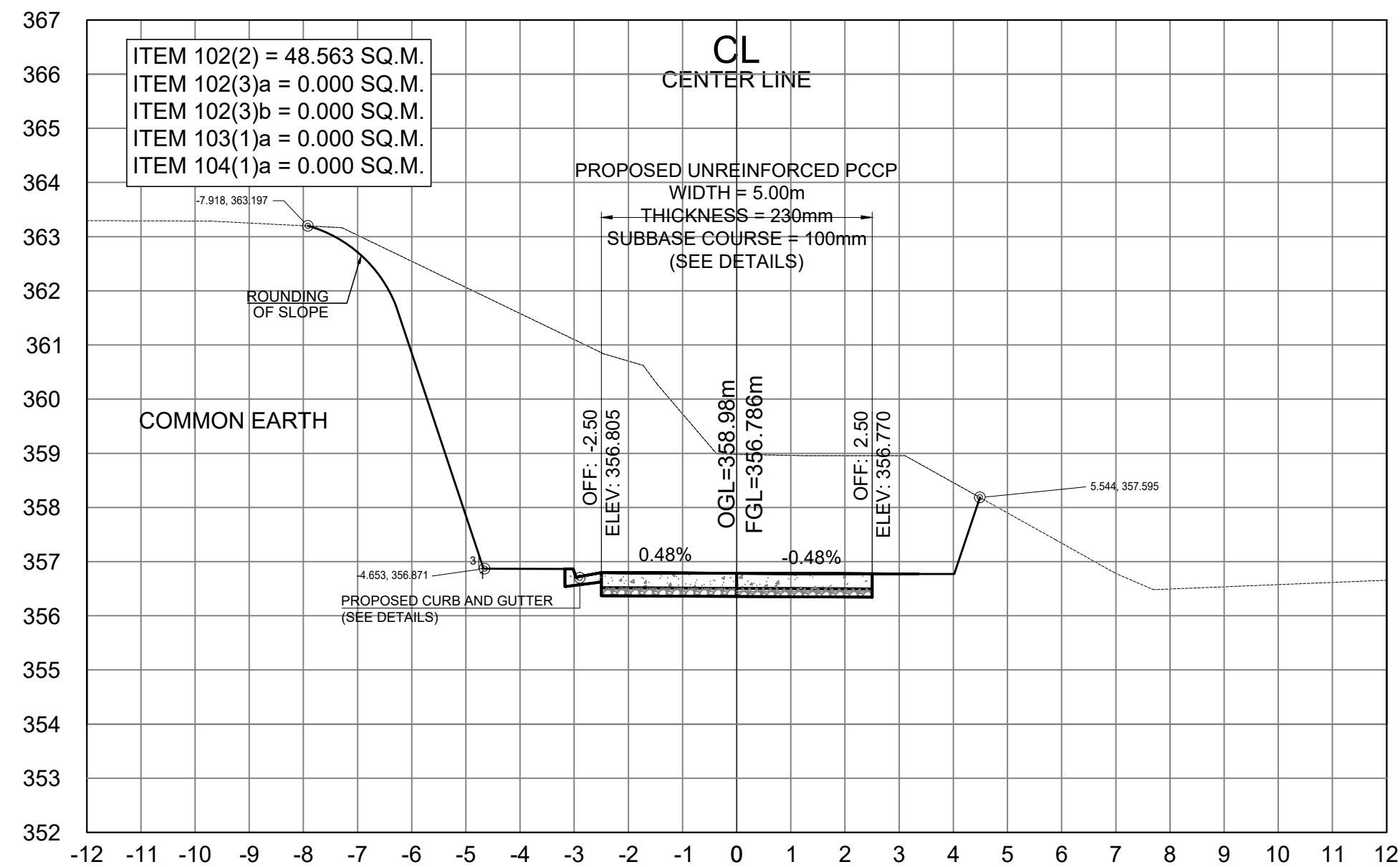
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SET NO. **01** SHEET NO. **64**

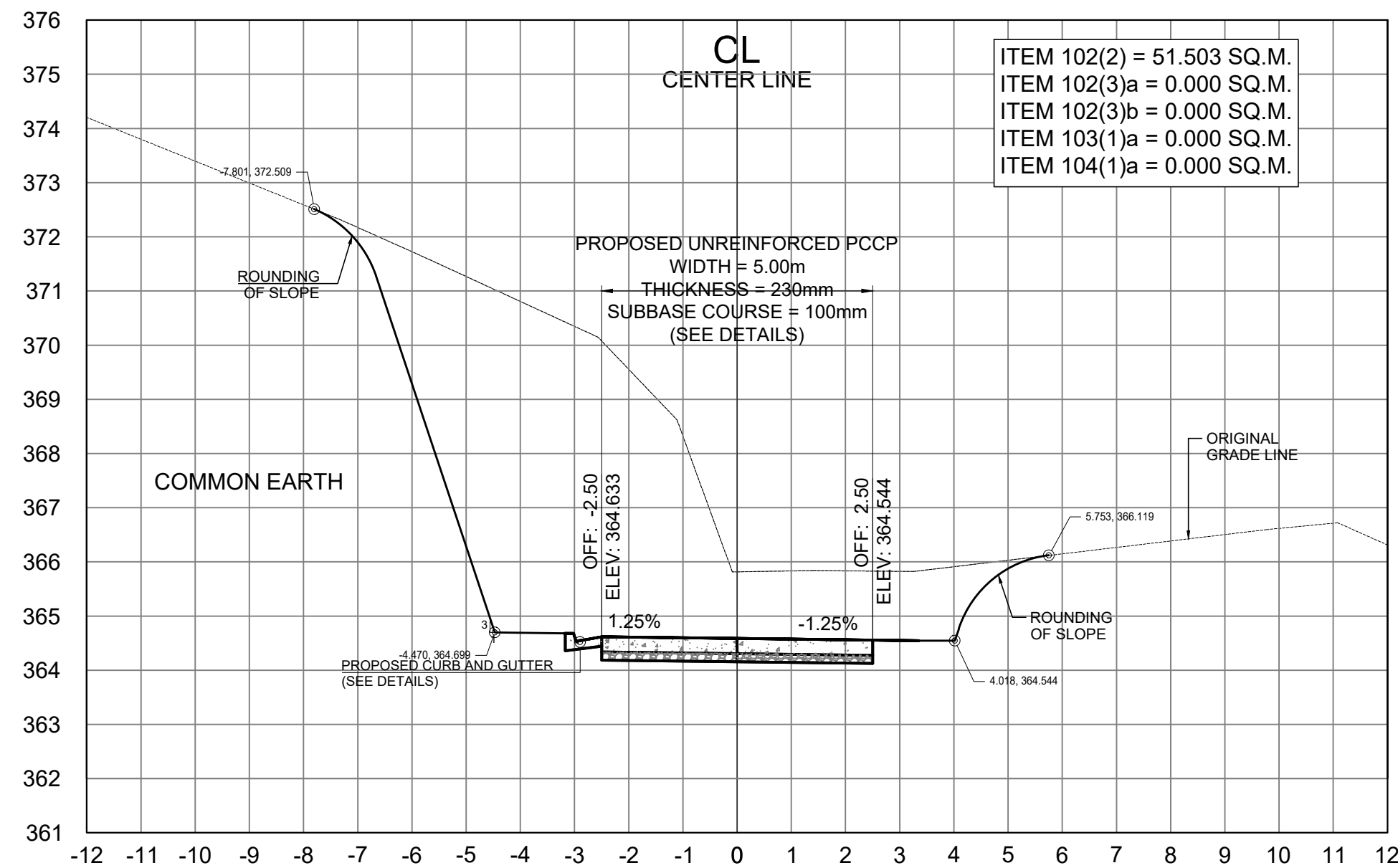
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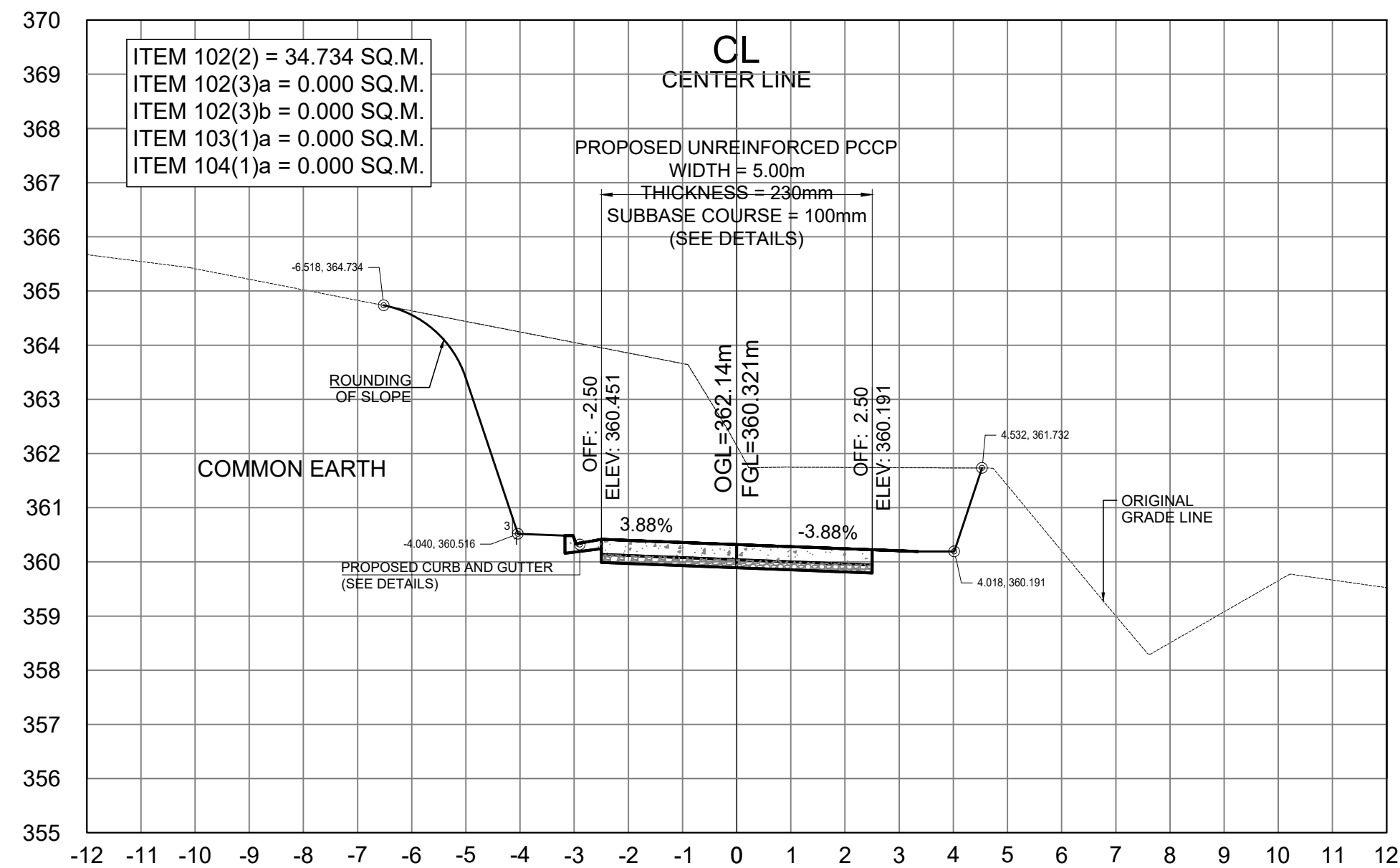
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STA. 0+140.00

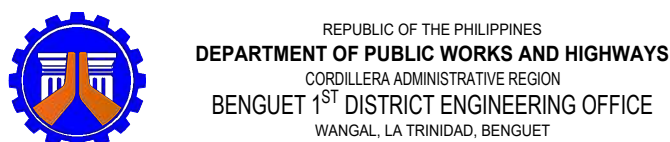


STA. 0+080.00



STA. 0+120.00

SCALE	
CROSS SECTIONS	1:100 MTS.



PROJECT NAME AND LOCATION:
CONSTRUCTION OF ROAD, PAYACPAK - PALAKPAK - LUMES - APNE, BARANGAY SAN PASCUAL, TUBA, BENGUET

TUBA, BENGUET

SHEET CONTENTS:
- CROSS SECTION

DRAFTED:
DIANE B. ABAYAO ENGINEER II
CYRUS P. MENDOZA ENGINEERING ASSISTANT

PREPARED:
DEXTER G. BIALNO ENGINEER II

REVIEWED:
EDISON C. AMBALES ENGINEER II

DATE:

SUBMITTED:
ROMUALDO T. APALIAS OIC-CHIEF
PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:
EDGARDO G. ENRIQUEZ ASSISTANT DISTRICT ENGINEER

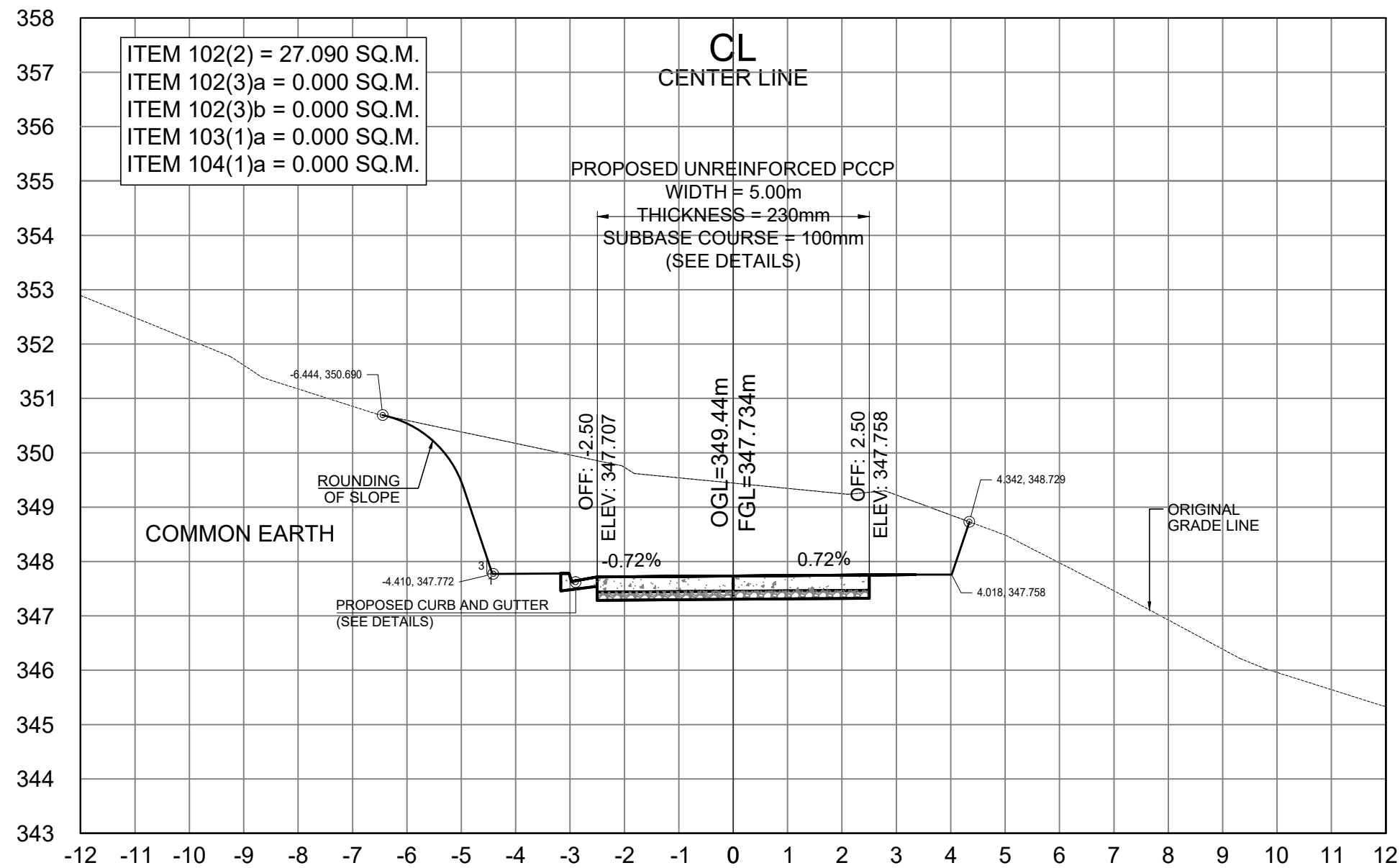
DATE:

APPROVED:
ISAGANI C. CAYME, CESE DISTRICT ENGINEER

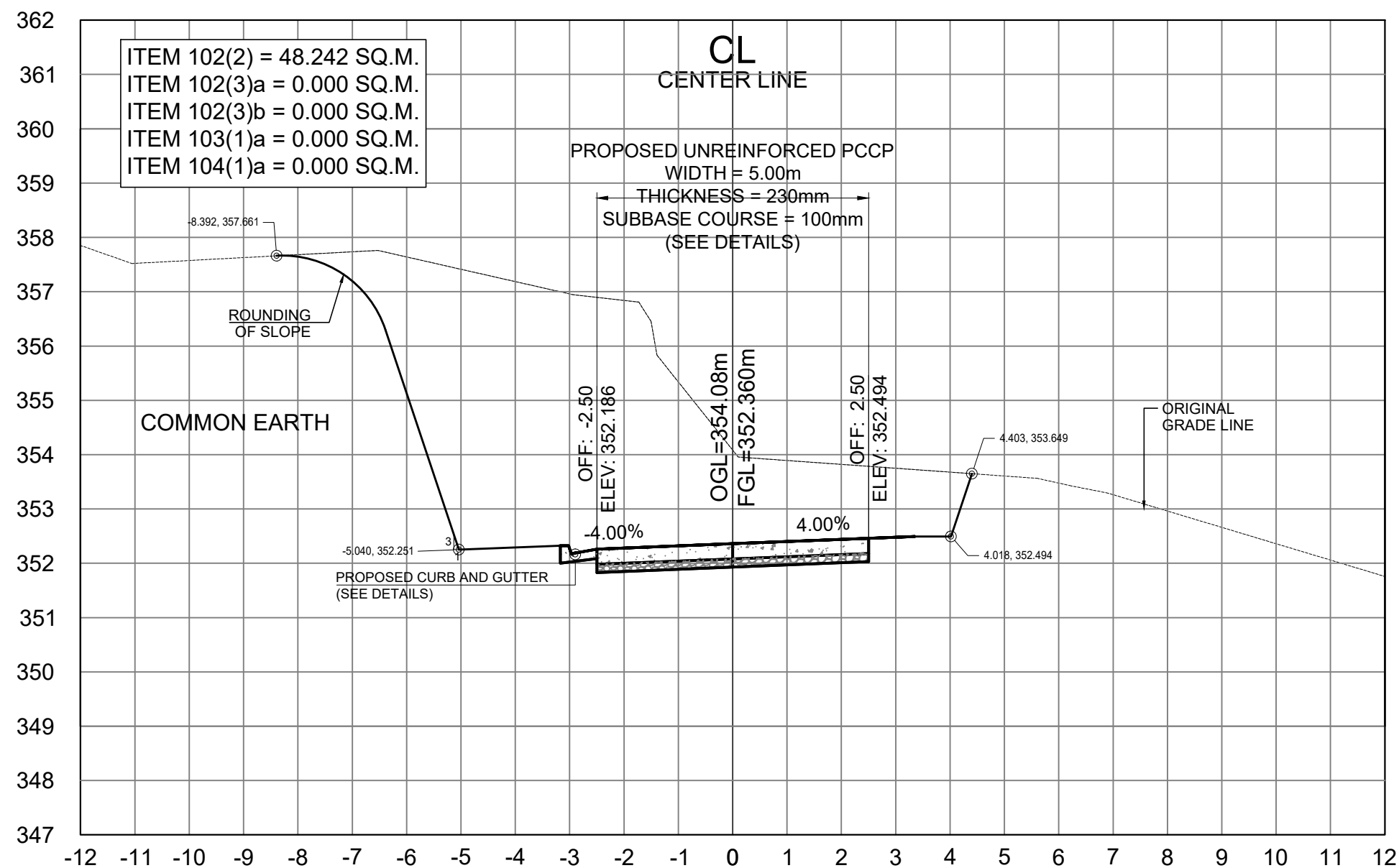
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SET NO. **01** SHEET NO. **64**

CROSS SECTION **28** **106**

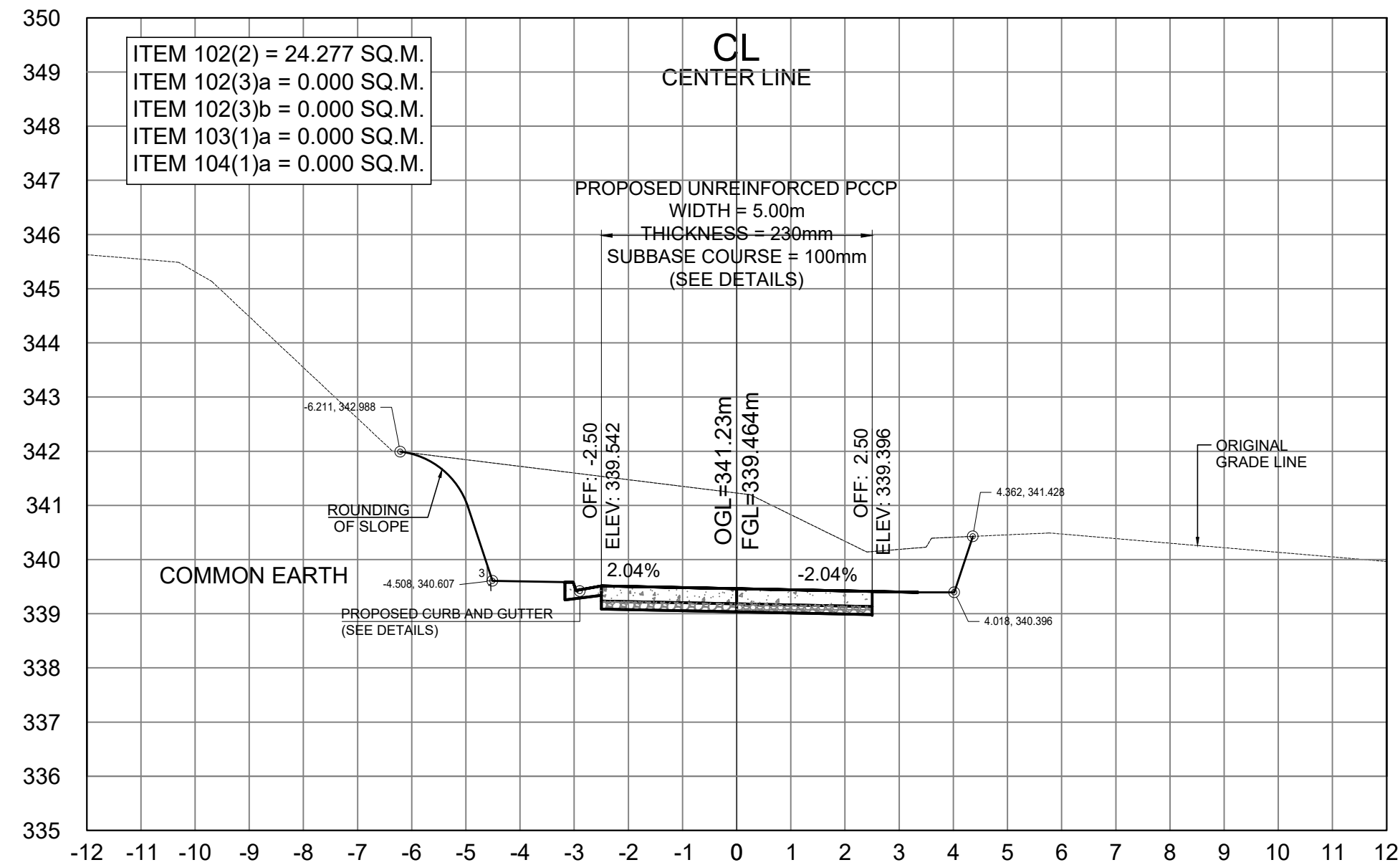


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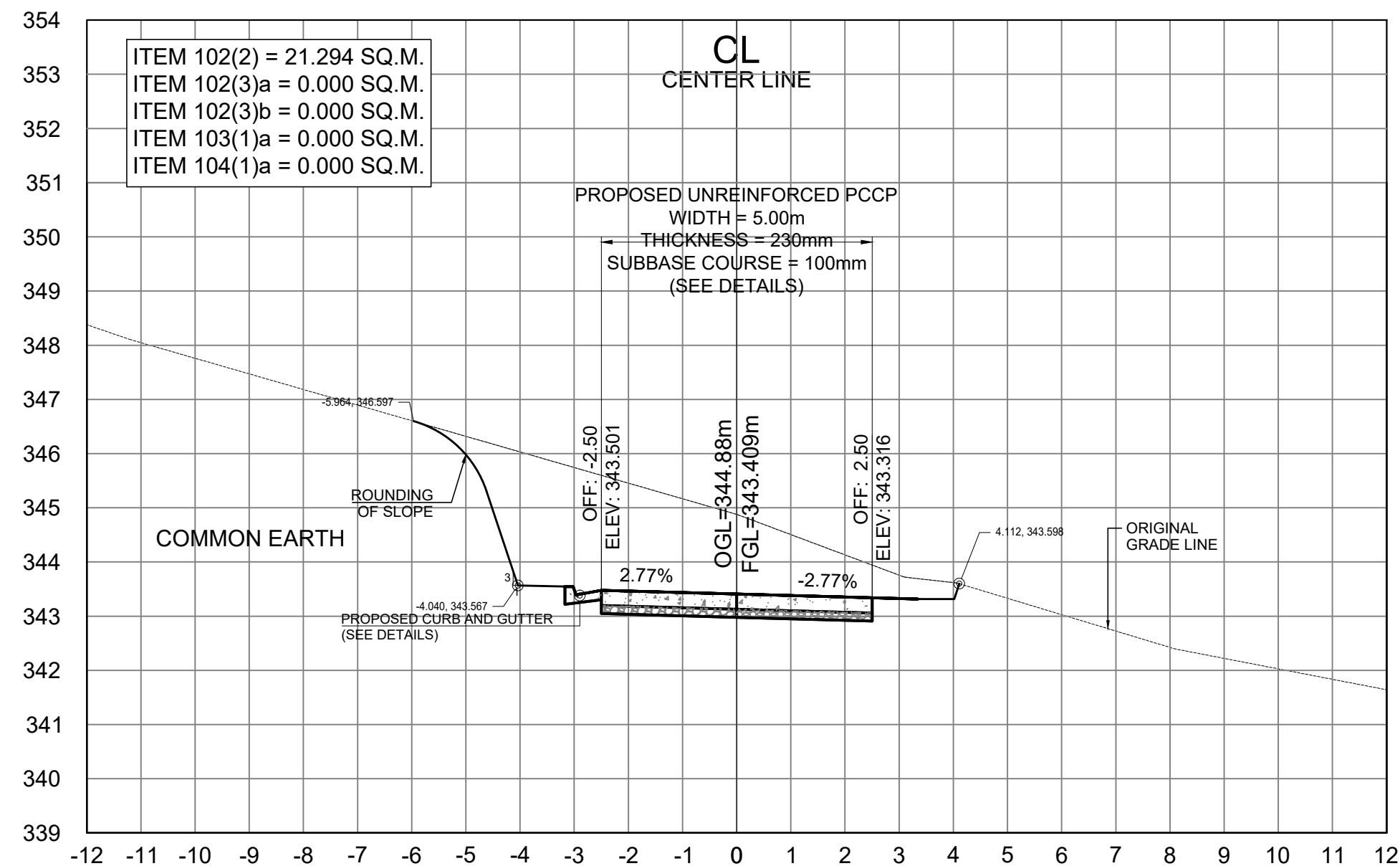


STA. 0+160.00

SCALE	
CROSS SECTIONS	1:100 MTS.



STA. 0+220.00



STA. 0+200.00



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:
CONSTRUCTION OF ROAD, PAYACPAK -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET

SHEET CONTENTS:
- CROSS SECTION

DRAFTED:
DIANE B. ABAYAO
ENGINEER II
CYRUS P. MENDOZA
ENGINEERING ASSISTANT
PREPARED:
DEXTER G. BIALNO
ENGINEER II

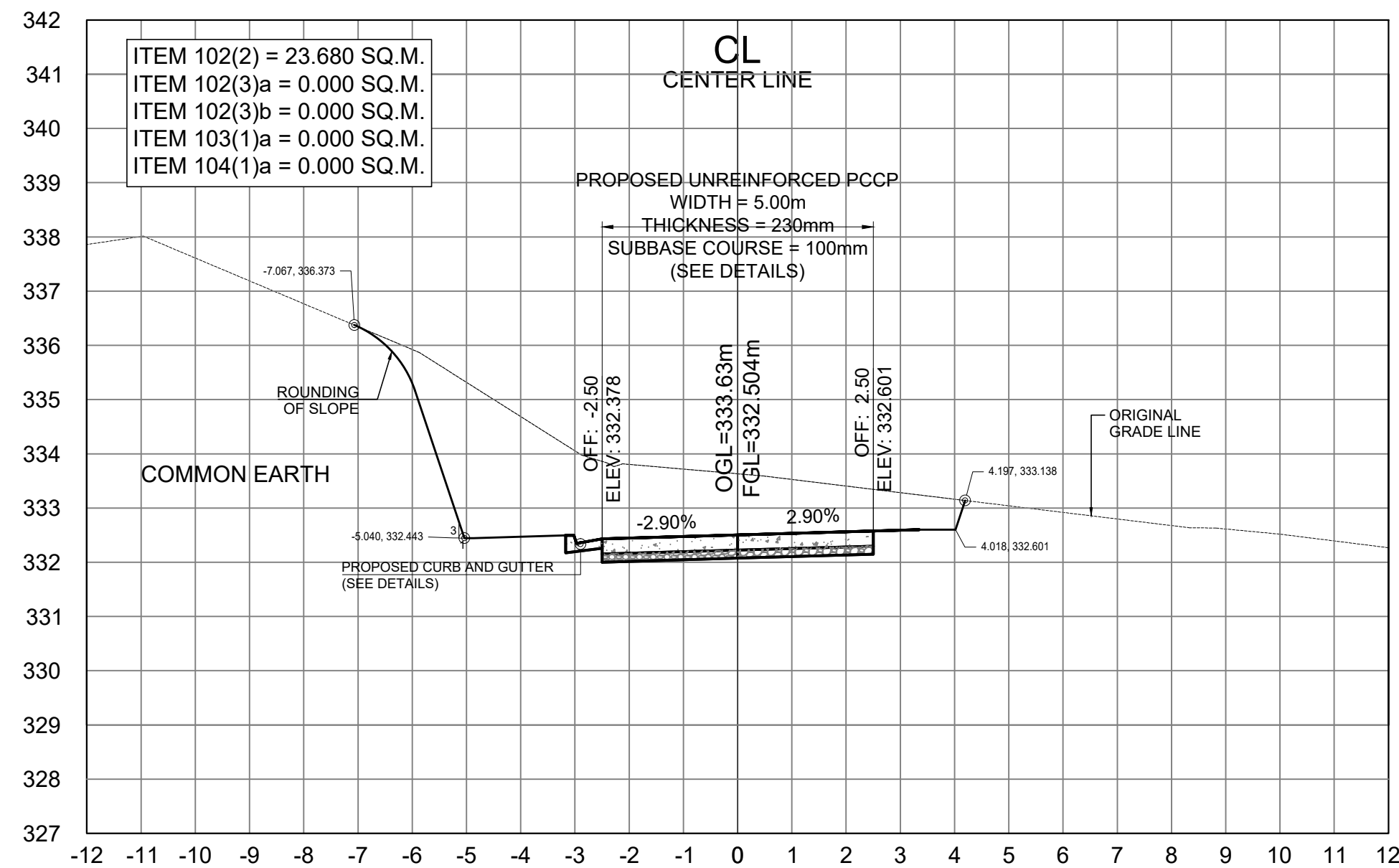
REVIEWED:
EDISON C. AMBALES
ENGINEER II
DATE:

SUBMITTED:
ROMUALDO T. APALIAS
OIC-CHIEF
PLANNING AND DESIGN SECTION
DATE:

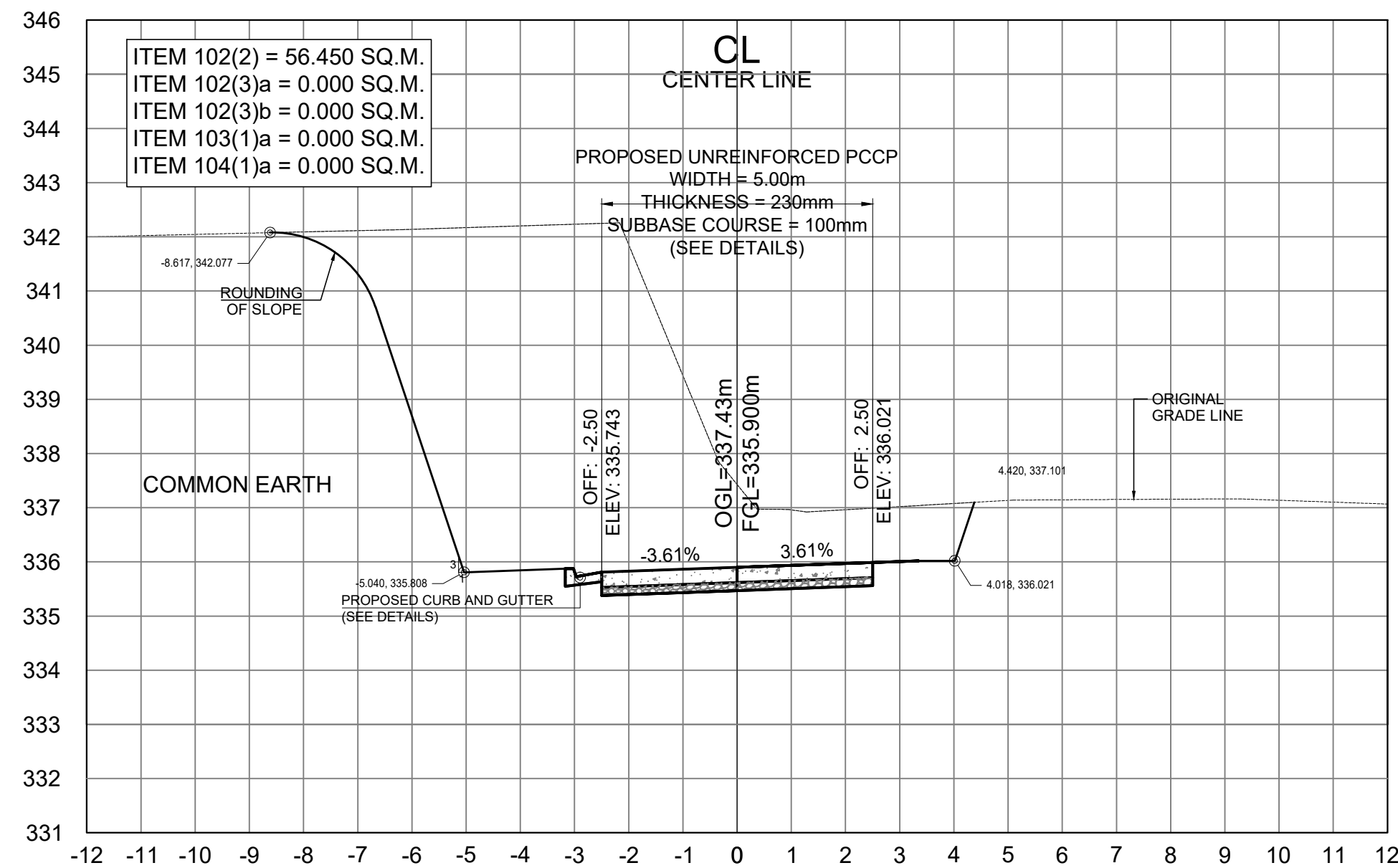
RECOMMENDED:
EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER
DATE:

APPROVED:
ISAGANI C. CAYME, CESE
DISTRICT ENGINEER
DATE:

SET NO.
CROSS SECTION
01 64
SHEET NO.
29
106

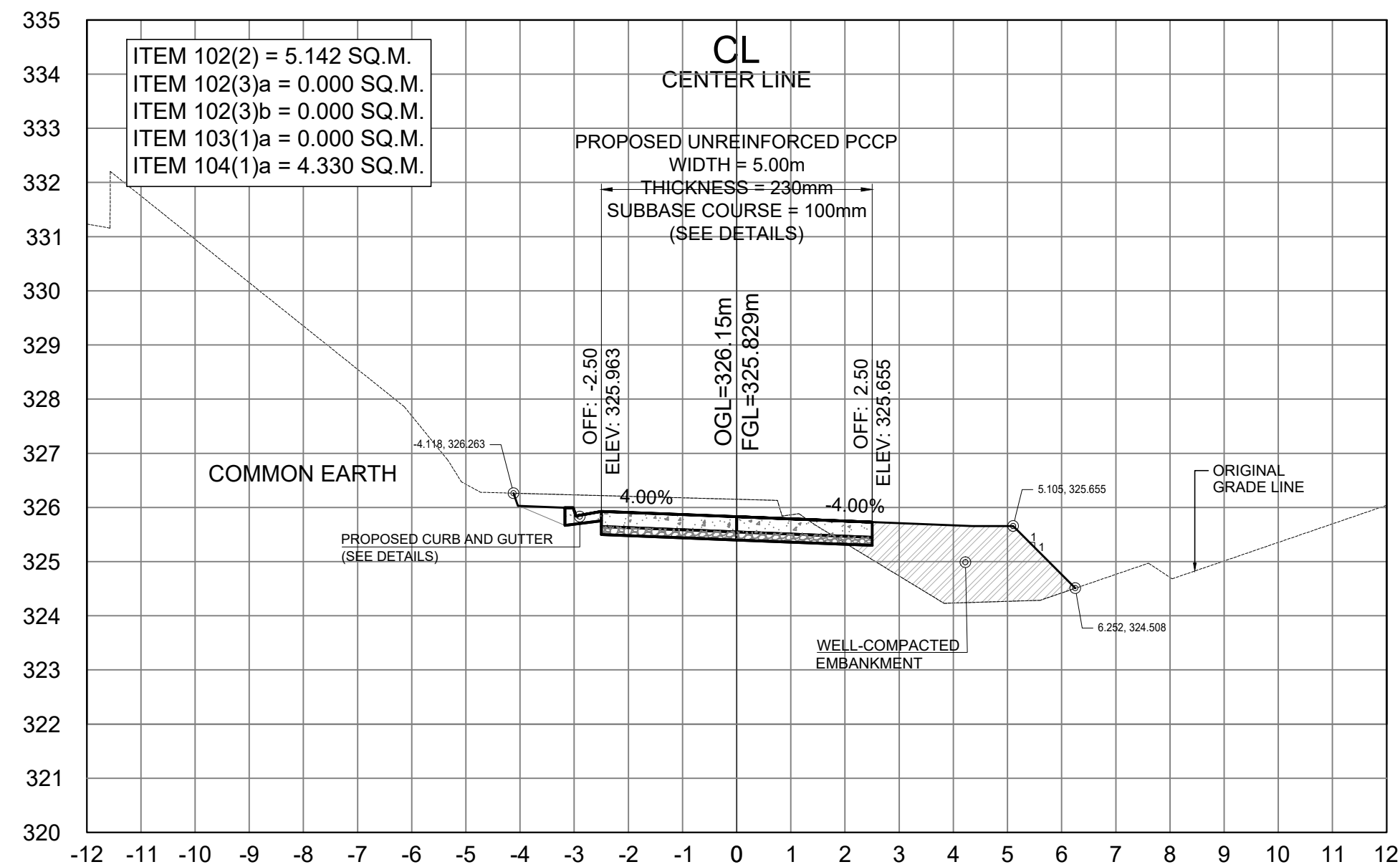


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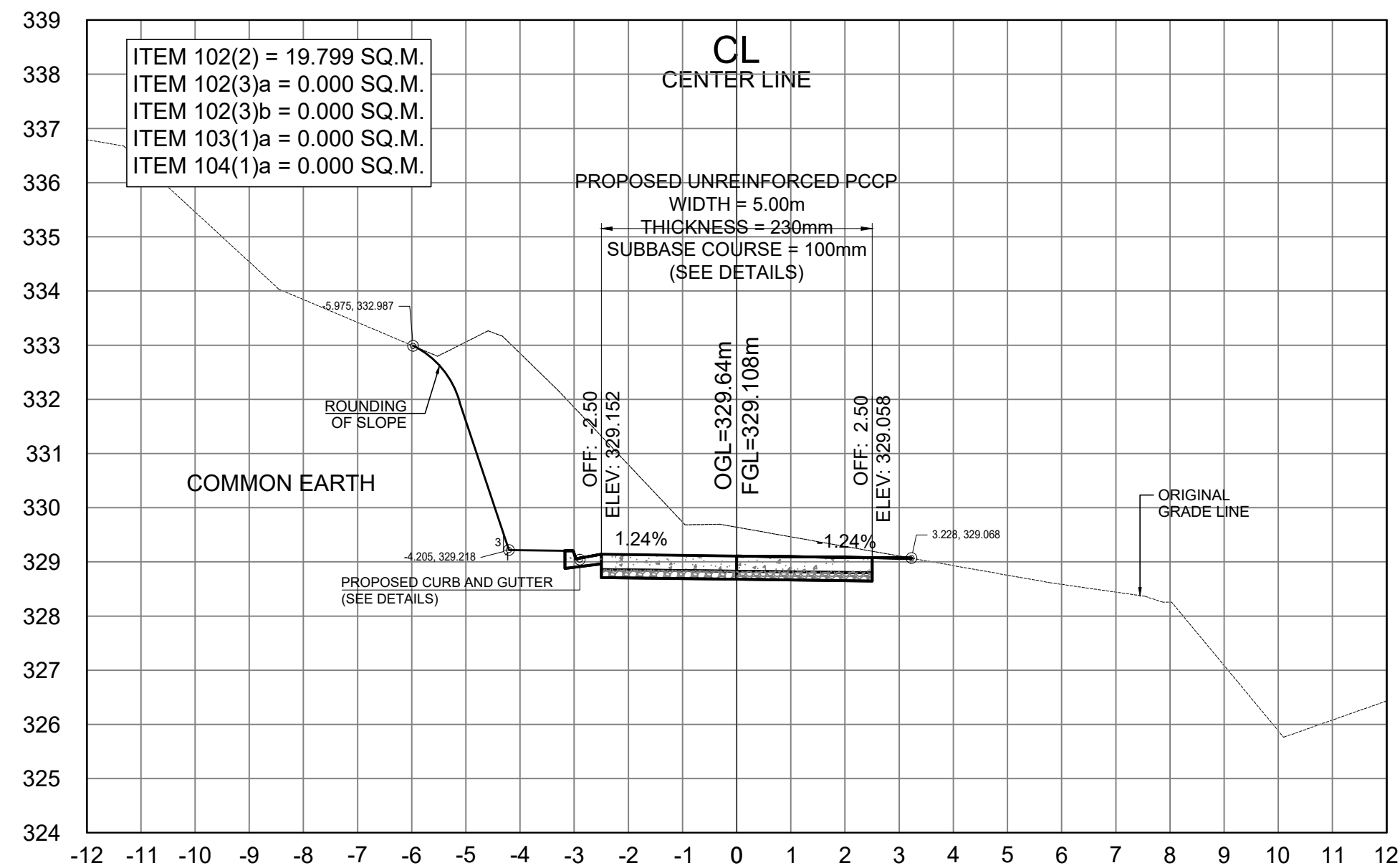


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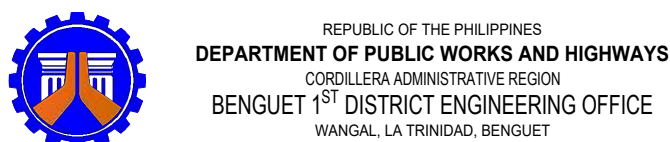
SCALE	
CROSS SECTIONS	1:100 MTS.



STA. 0+300.00



STA. 0+280.00



PROJECT NAME AND LOCATION:
**CONSTRUCTION OF ROAD, PAYACPAC -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET**

TUBA, BENGUET

SHEET CONTENTS:
- CROSS SECTION

DRAFTED:
DIANE B. ABAYAO ENGINEER II
CYRUS P. MENDOZA ENGINEERING ASSISTANT

PREPARED:
DEXTER G. BIALNO ENGINEER II

REVIEWED:
EDISON C. AMBALES ENGINEER II

DATE:

SUBMITTED:
ROMUALDO T. APALIAS OIC-CHIEF
PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:
EDGARDO G. ENRIQUEZ ASSISTANT DISTRICT ENGINEER

DATE:

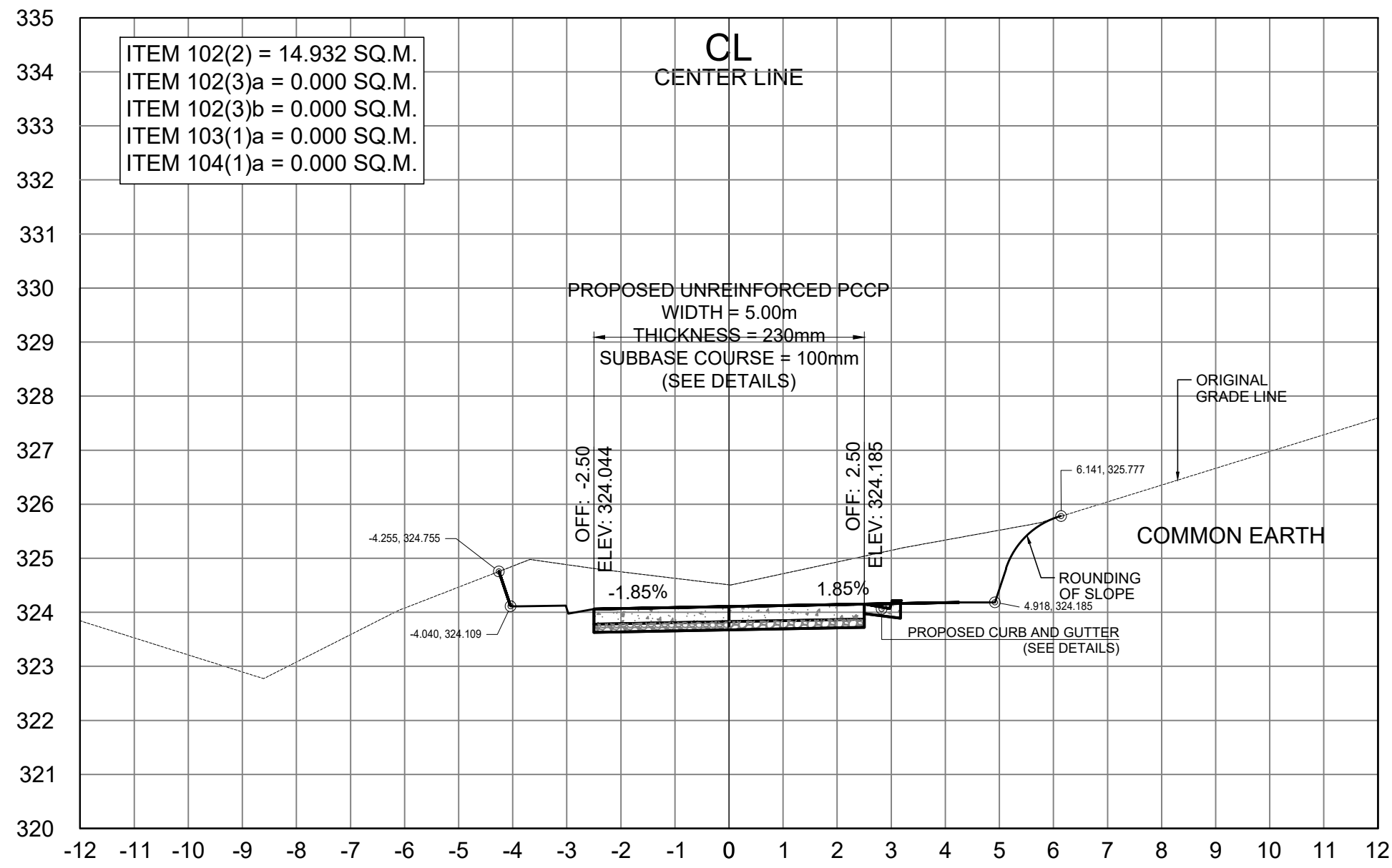
APPROVED:
ISAGANI C. CAYME, CESE DISTRICT ENGINEER

DATE:

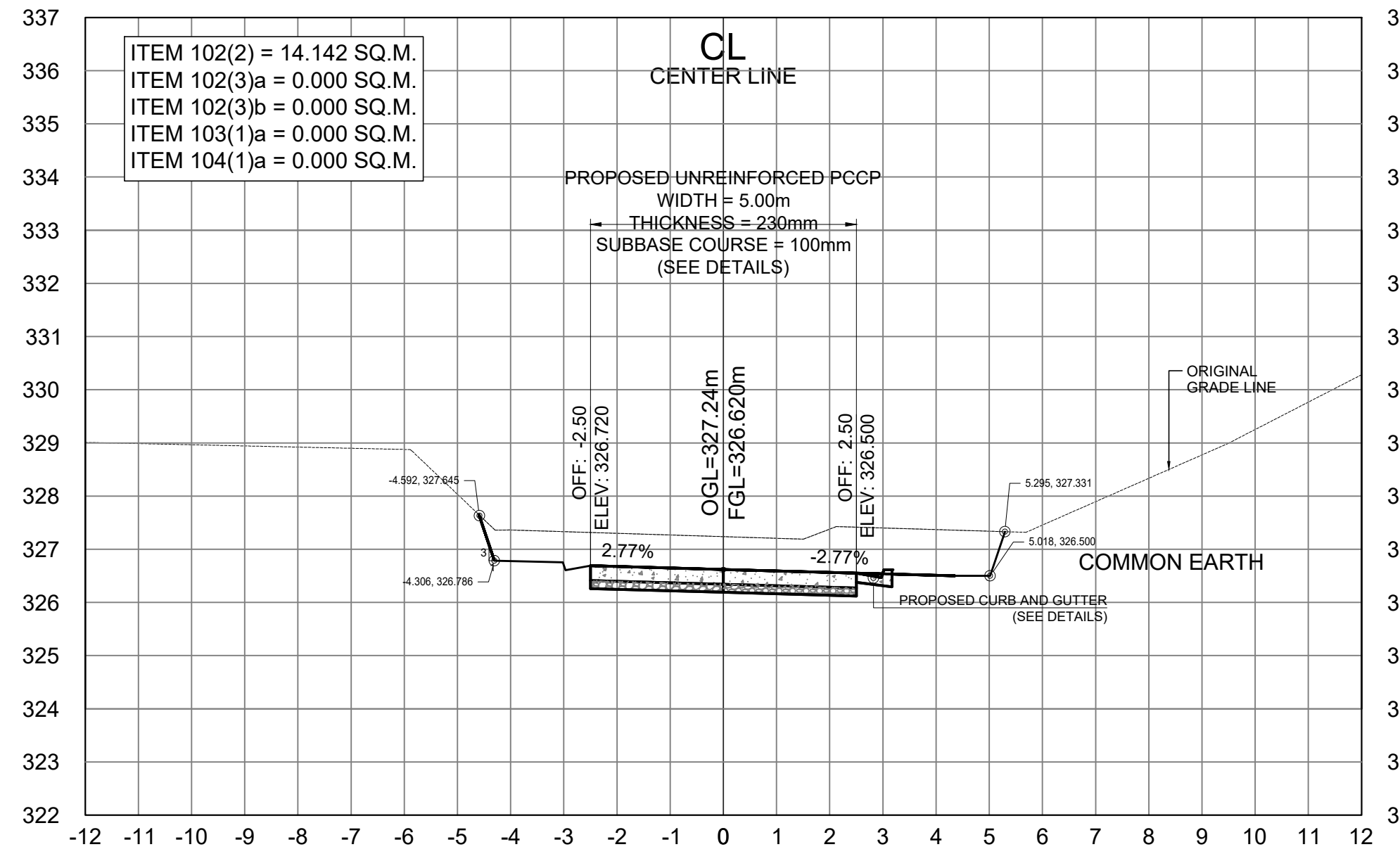
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CROSS SECTION
01 64

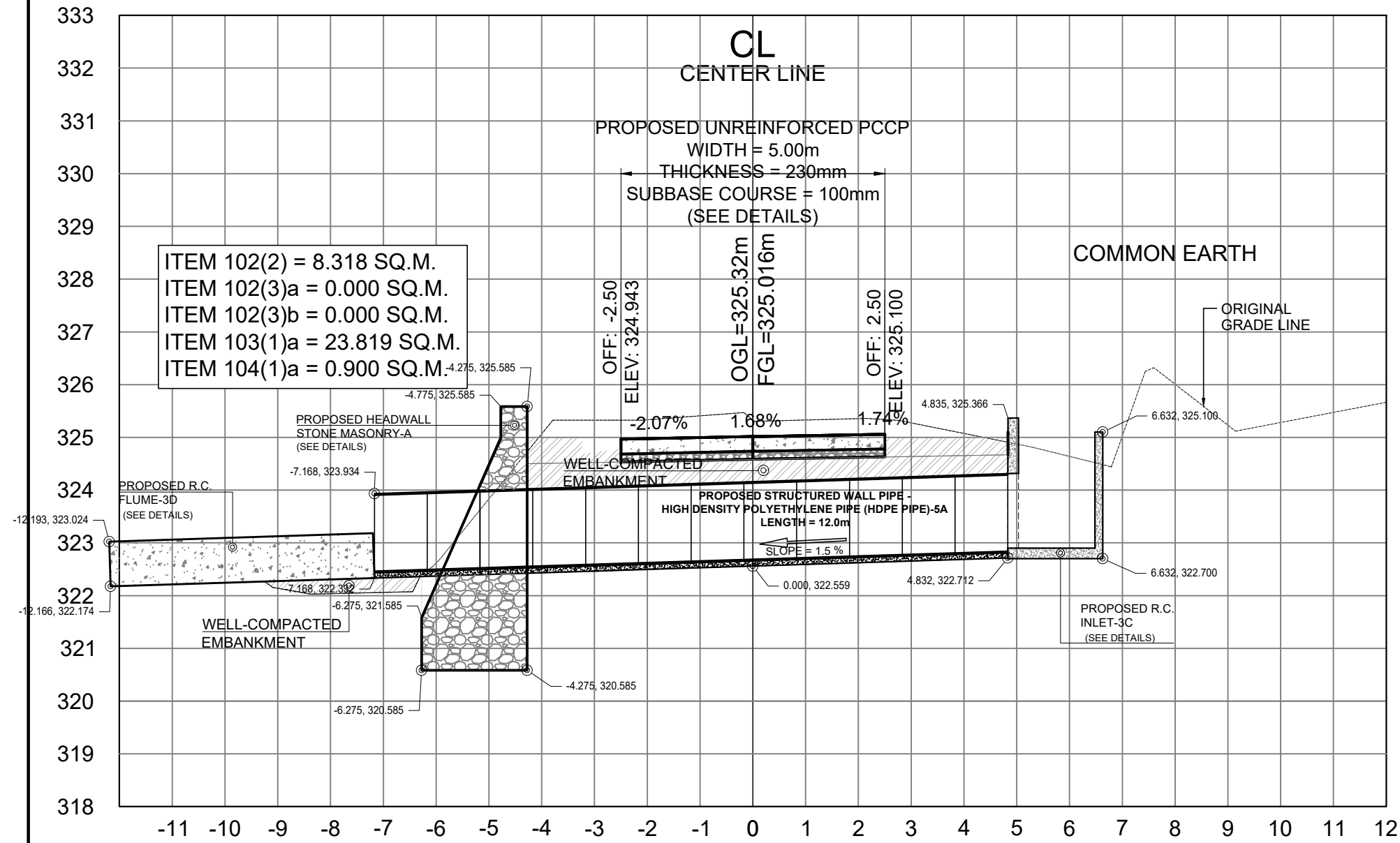
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106



STA. 0+320.00

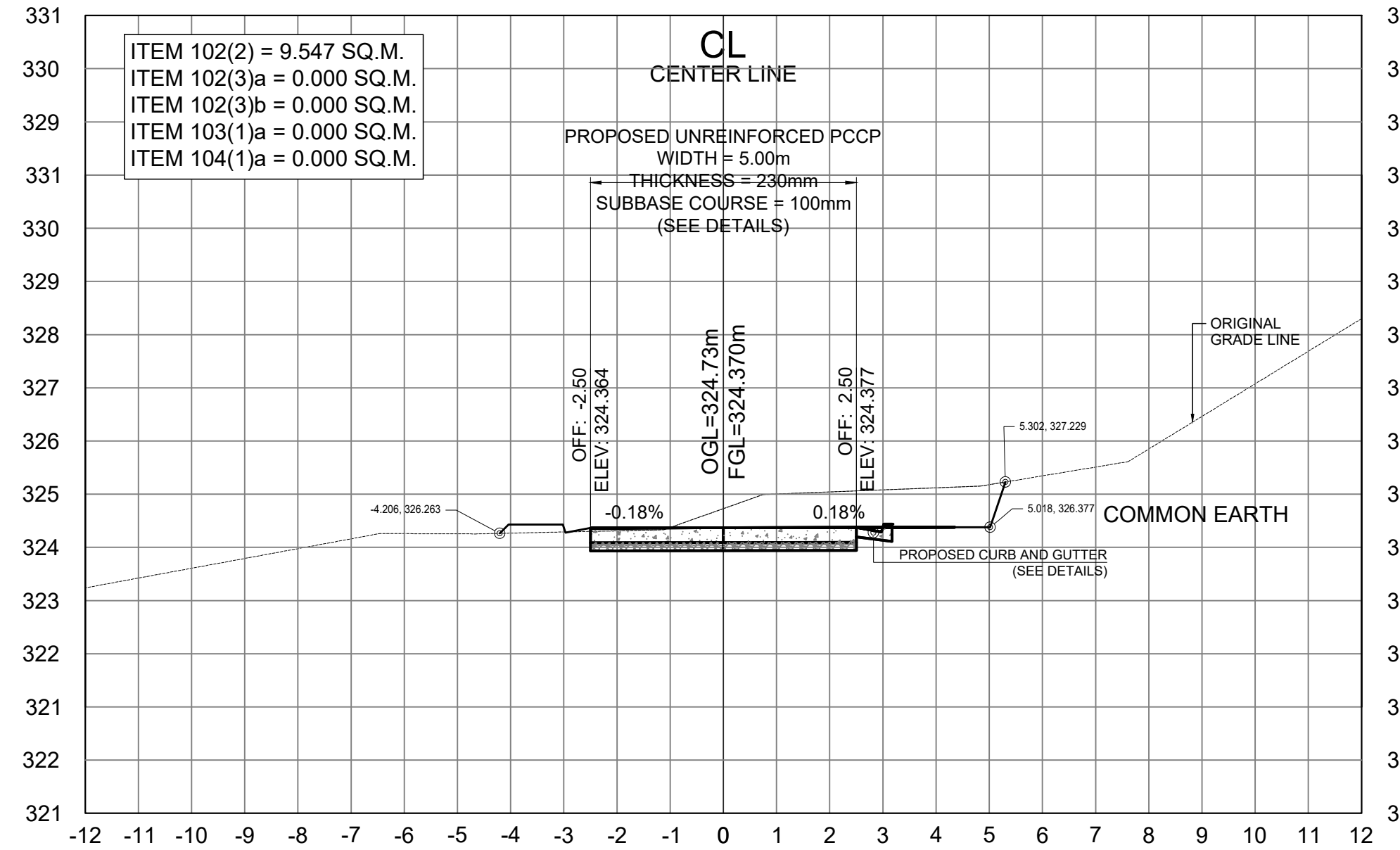


STA. 0+360.00



STA. 0+307.00

SCALE
CROSS SECTIONS 1:100 MTS.



STA. 0+340.00



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:
CONSTRUCTION OF ROAD, PAYACAPAC -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET

TUBA, BENGUET

SHEET CONTENTS:
- CROSS SECTION

DRAFTED:
DIANE B. ABAYAO
ENGINEER II

CYRUS P. MENDOZA
ENGINEERING ASSISTANT

PREPARED:
DEXTER G. BIALNO
ENGINEER II

REVIEWED:
EDISON C. AMBALES
ENGINEER II

DATE:

SUBMITTED:
ROMUALDO T. APALIAS
OIC-CHIEF
PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:
EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER

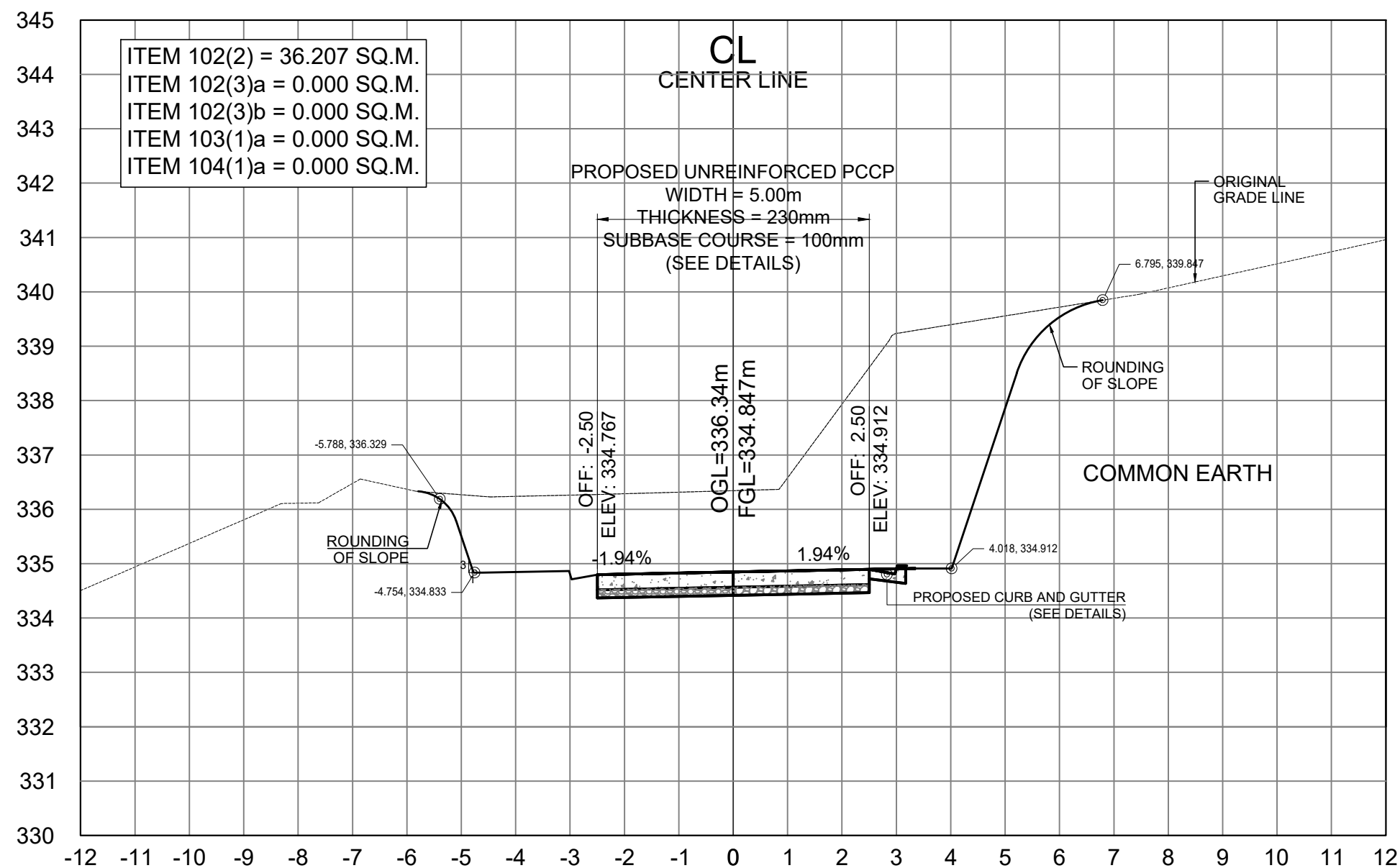
DATE:

APPROVED:
ISAGANI C. CAYME, CESE
DISTRICT ENGINEER

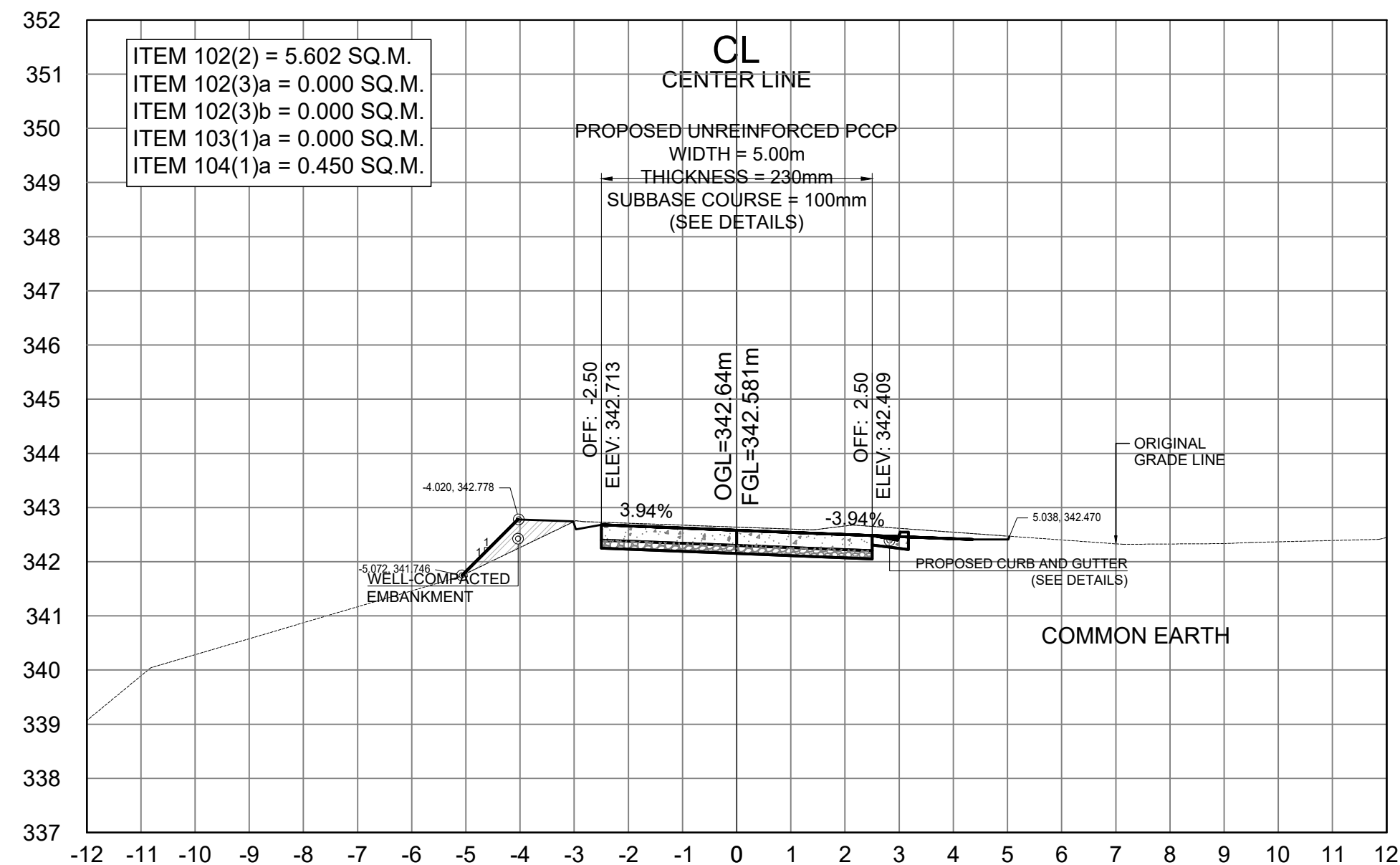
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SET NO.
CROSS
SECTION
01 64

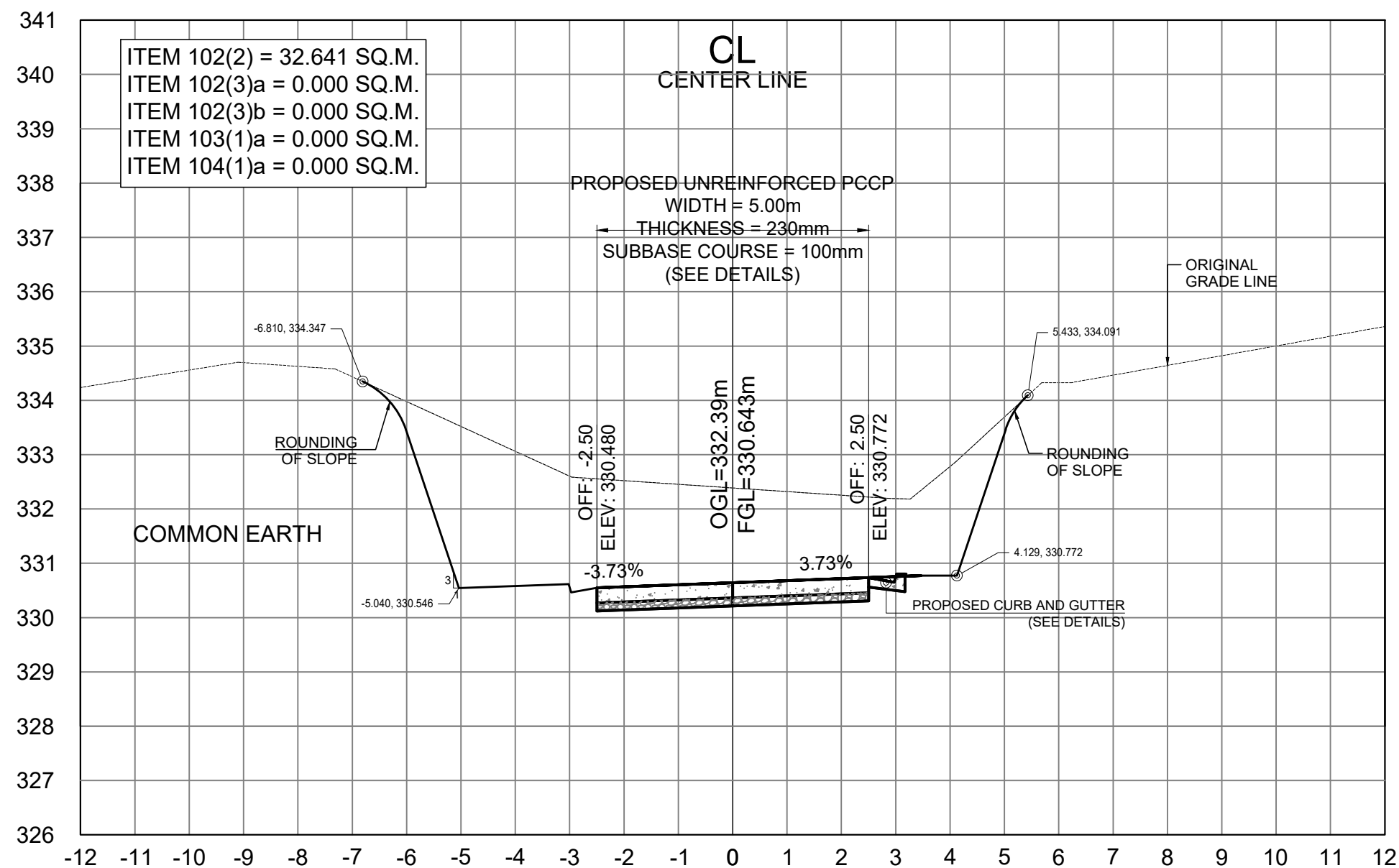
SHEET NO.
31
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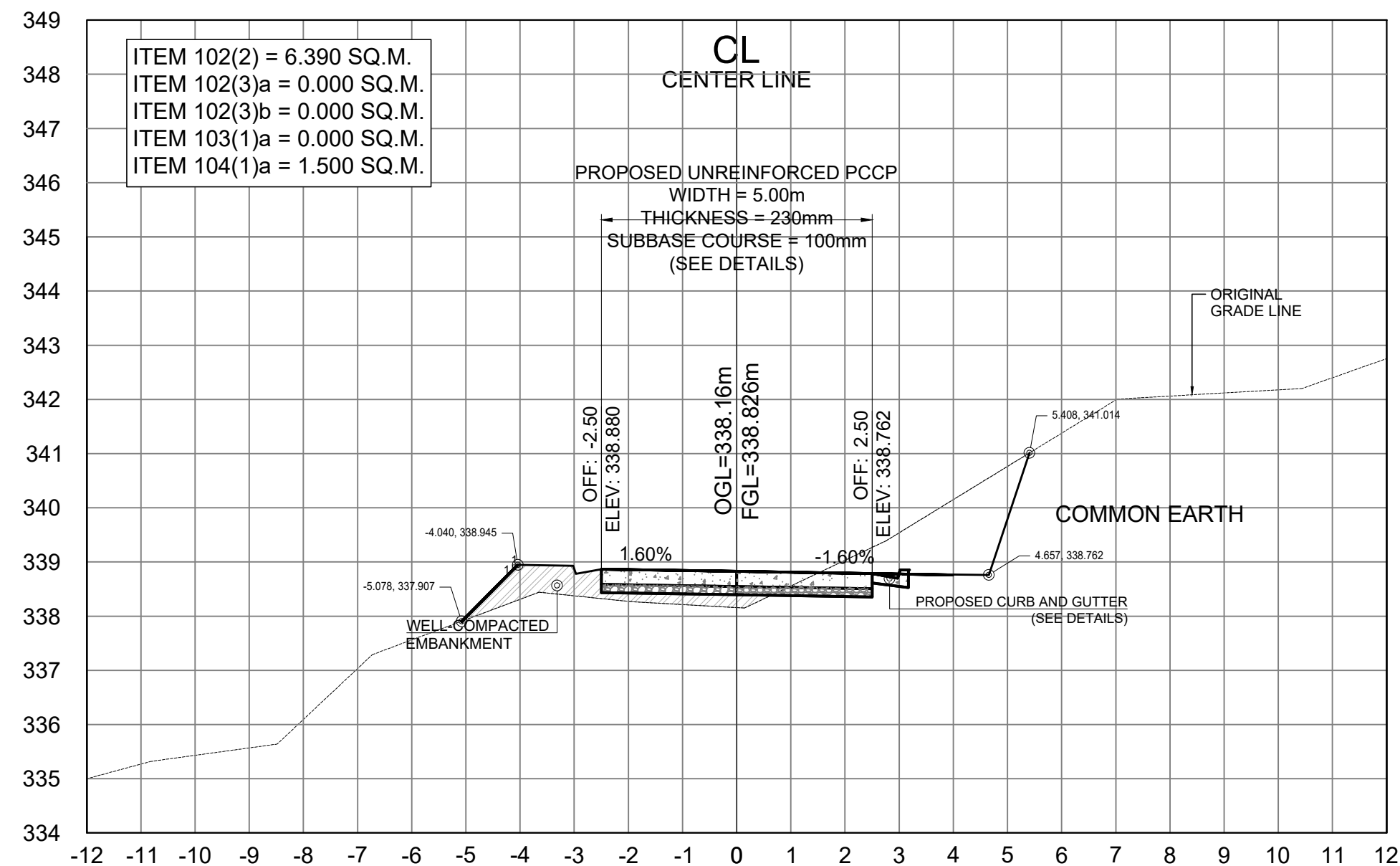
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STA. 0+440.00

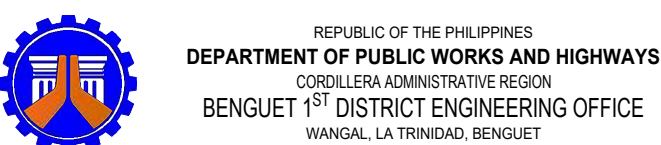


STA. 0+380.00



STA. 0+420.00

SCALE	
CROSS SECTIONS	1:100 MTS.



PROJECT NAME AND LOCATION:
CONSTRUCTION OF ROAD, PAYACPAK -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET

TUBA, BENGUET

SHEET CONTENTS:
- CROSS SECTION

DRAFTED:
DIANE B. ABAYAO
ENGINEER II

CYRUS P. MENDOZA
ENGINEERING ASSISTANT

PREPARED:
DEXTER G. BIALNO
ENGINEER II

REVIEWED:
EDISON C. AMBALES
ENGINEER II

DATE:

SUBMITTED:
ROMUALDO T. APALIAS
OIC-CHIEF
PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:
EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER

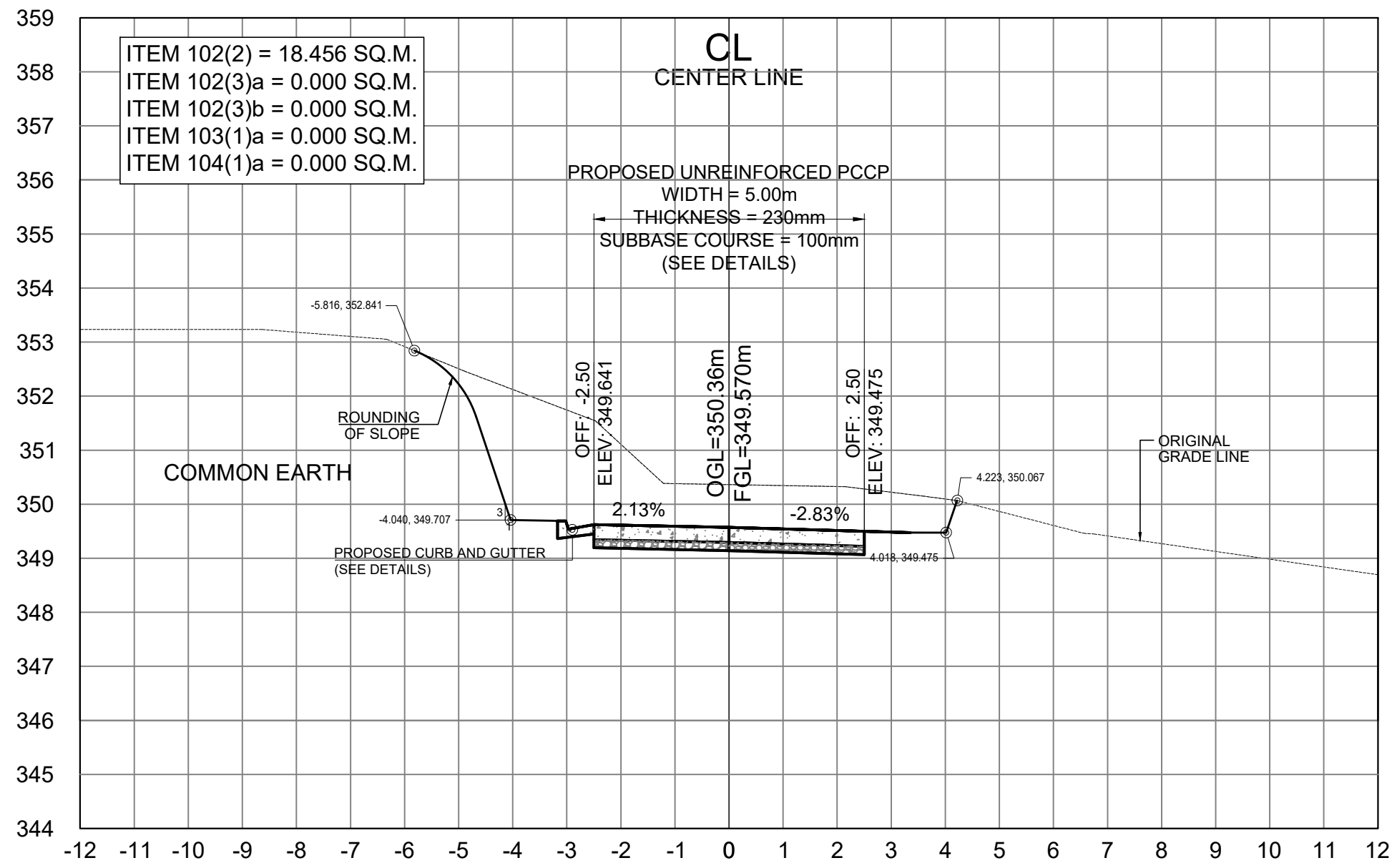
DATE:

APPROVED:
ISAGANI C. CAYME, CESE
DISTRICT ENGINEER

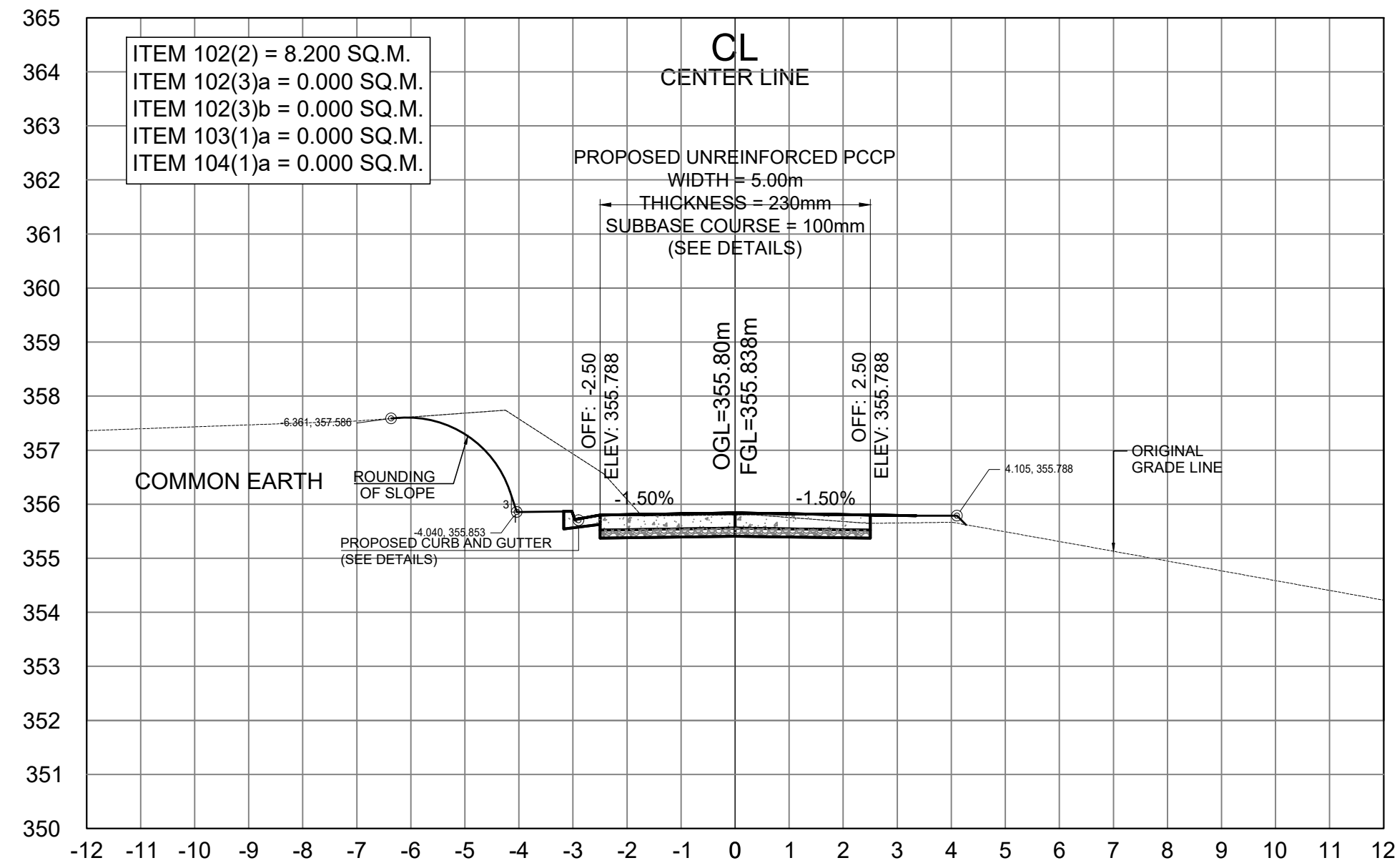
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SET NO.
CROSS SECTION
01 64

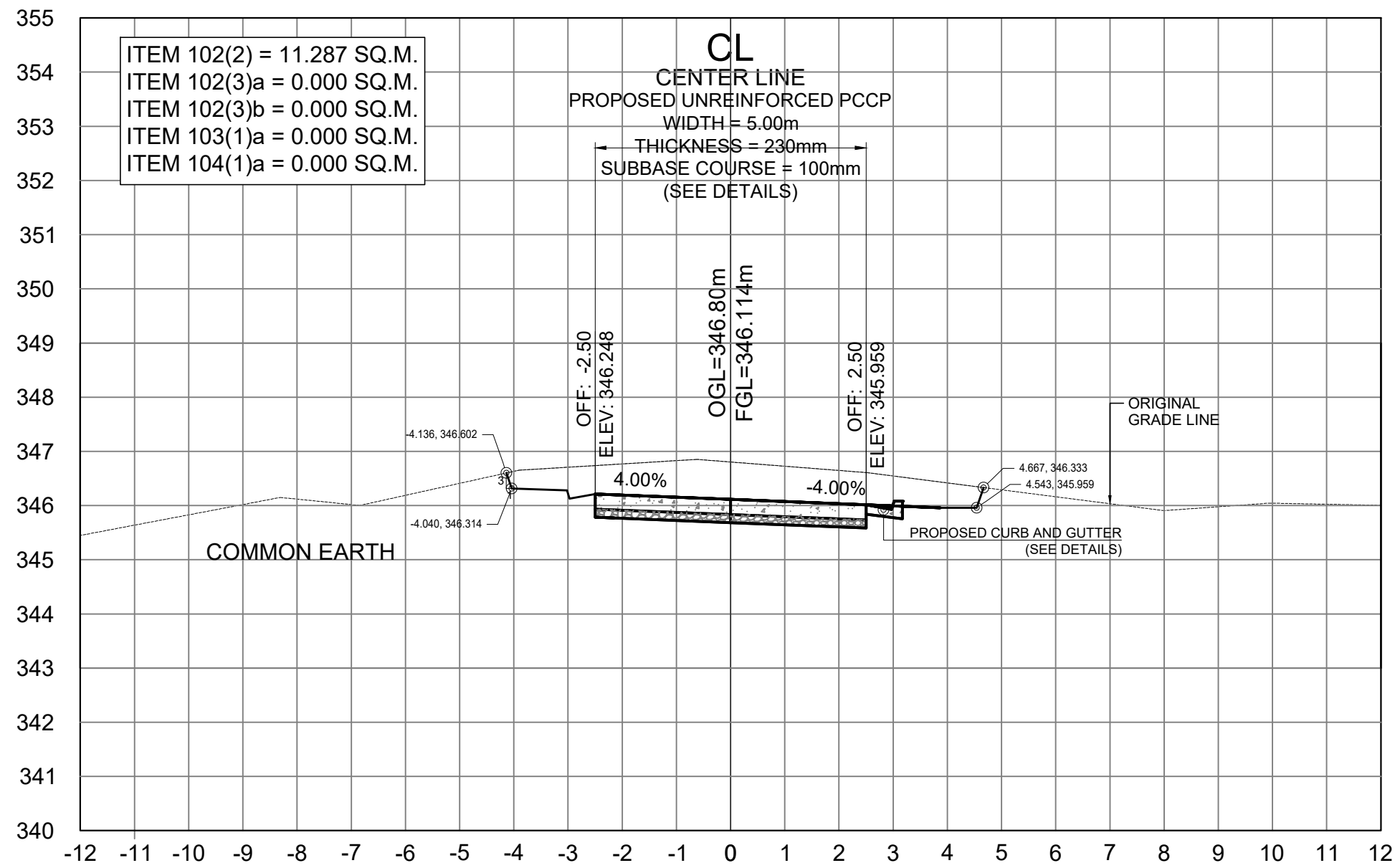
SHEET NO.
32
106



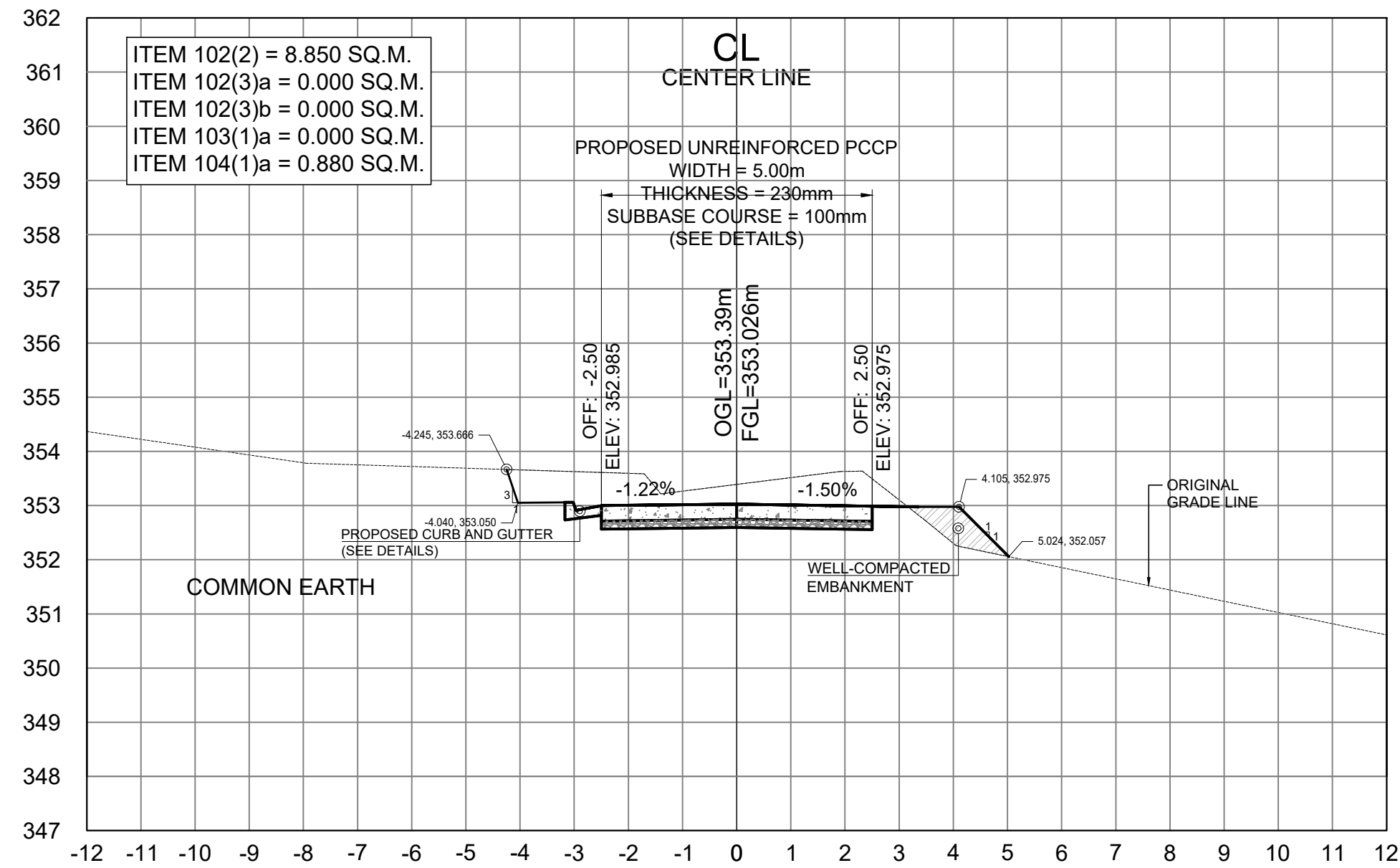
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STA. 0+520.00

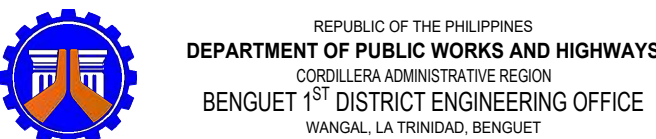


STA. 0+460.00



STA. 0+500.00

SCALE	
CROSS SECTIONS	1:100 MTS.



PROJECT NAME AND LOCATION:
CONSTRUCTION OF ROAD, PAYACPAK -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET
TUBA, BENGUET

SHEET CONTENTS:
- CROSS SECTION

DRAFTED:
DIANE B. ABAYAO CYRUS P. MENDOZA
ENGINEER II ENGINEERING ASSISTANT
PREPARED:
DEXTER G. BIALNO
ENGINEER II

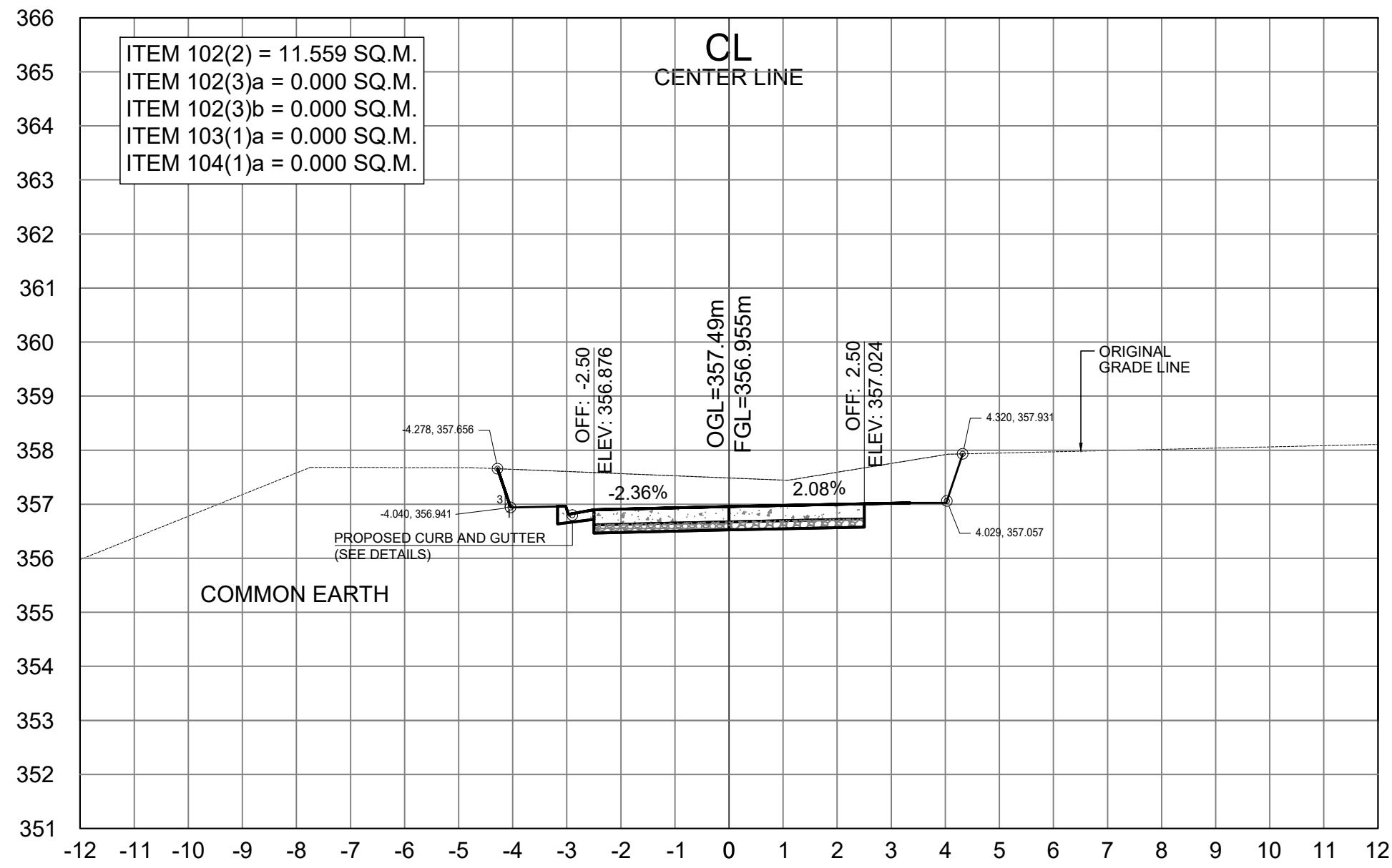
REVIEWED:
EDISON C. AMBALES
ENGINEER II
DATE:

SUBMITTED:
ROMUALDO T. APALIAS
OIC-CHIEF
PLANNING AND DESIGN SECTION
DATE:

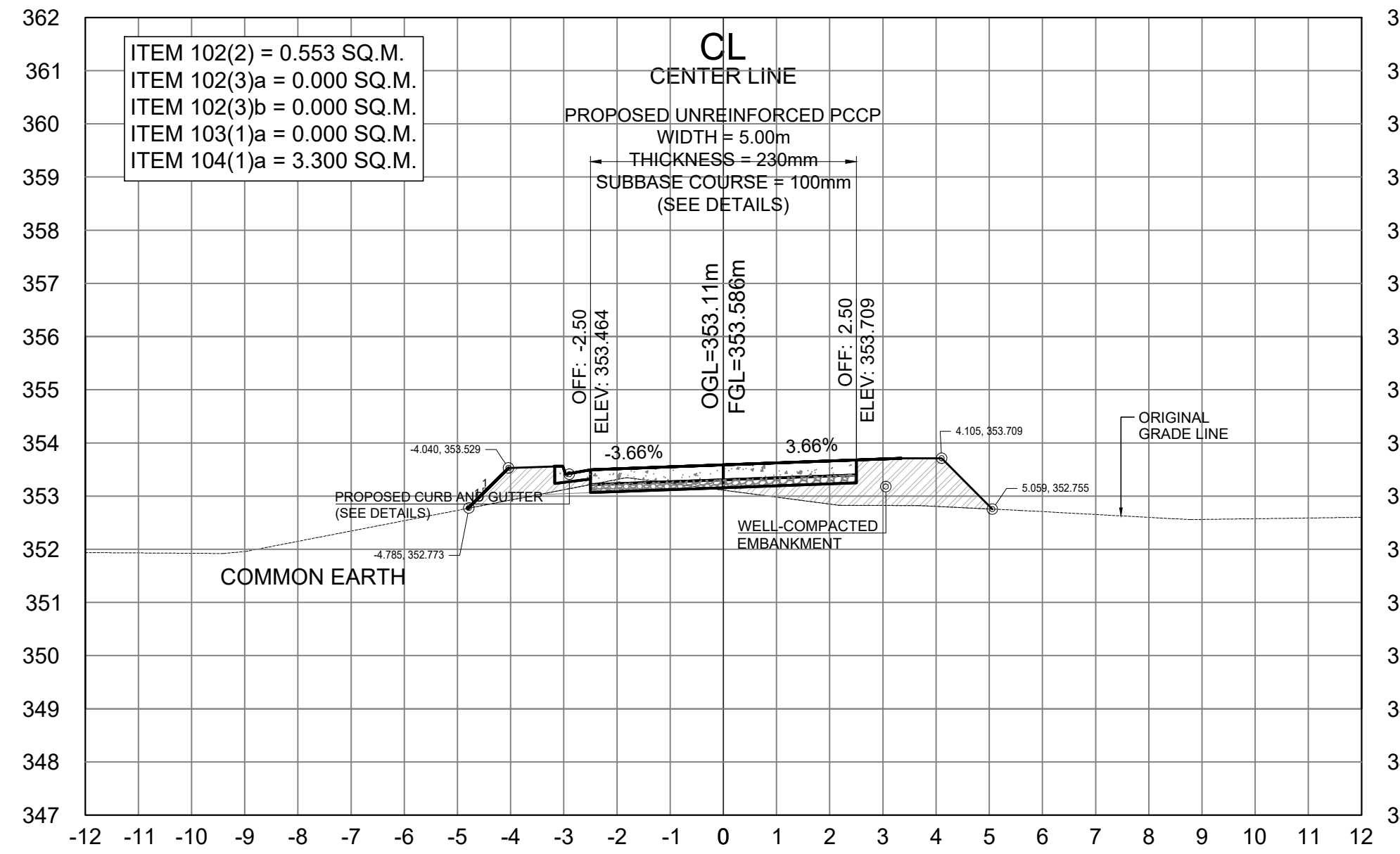
RECOMMENDED:
EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER
DATE:

APPROVED:
ISAGANI C. CAYME, CESE
DISTRICT ENGINEER
DATE:

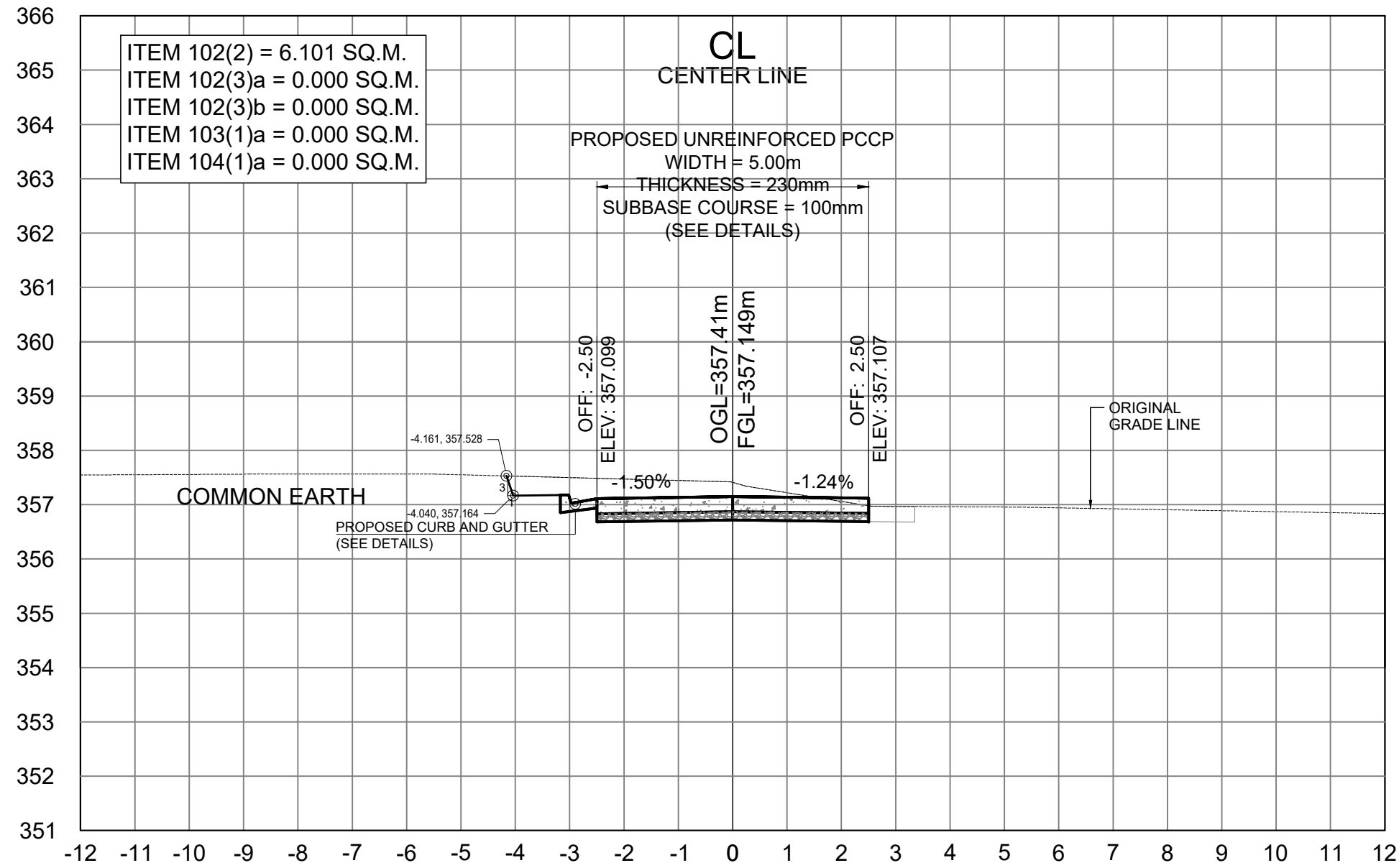
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CROSS SECTION 01 64 33 106



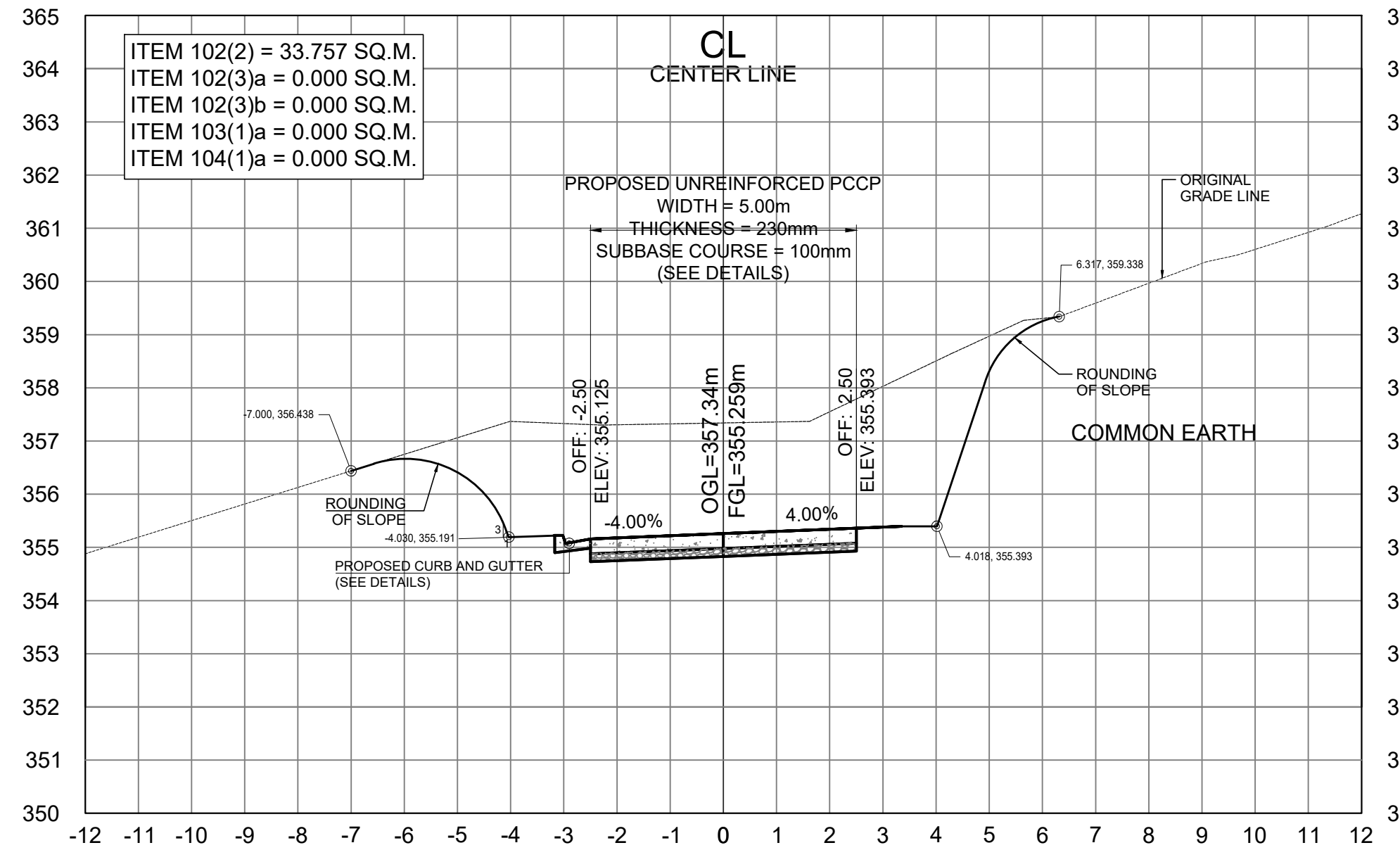
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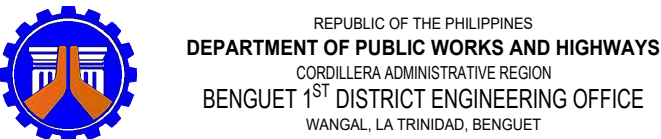


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SCALE	
CROSS SECTIONS	1:100 MTS.



PROJECT NAME AND LOCATION:
CONSTRUCTION OF ROAD, PAYACPAC - PALAKPAK - LUMES - APNE, BARANGAY SAN PASCUAL, TUBA, BENGUET

TUBA, BENGUET

SHEET CONTENTS:
- CROSS SECTION

DRAFTED:
DIANE B. ABAYAO ENGINEER II
CYRUS P. MENDOZA ENGINEERING ASSISTANT

PREPARED:
DEXTER G. BIALNO ENGINEER II

REVIEWED:
EDISON C. AMBALES ENGINEER II

DATE:

SUBMITTED:
ROMUALDO T. APALIAS OIC-CHIEF
PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:
EDGARDO G. ENRIQUEZ ASSISTANT DISTRICT ENGINEER

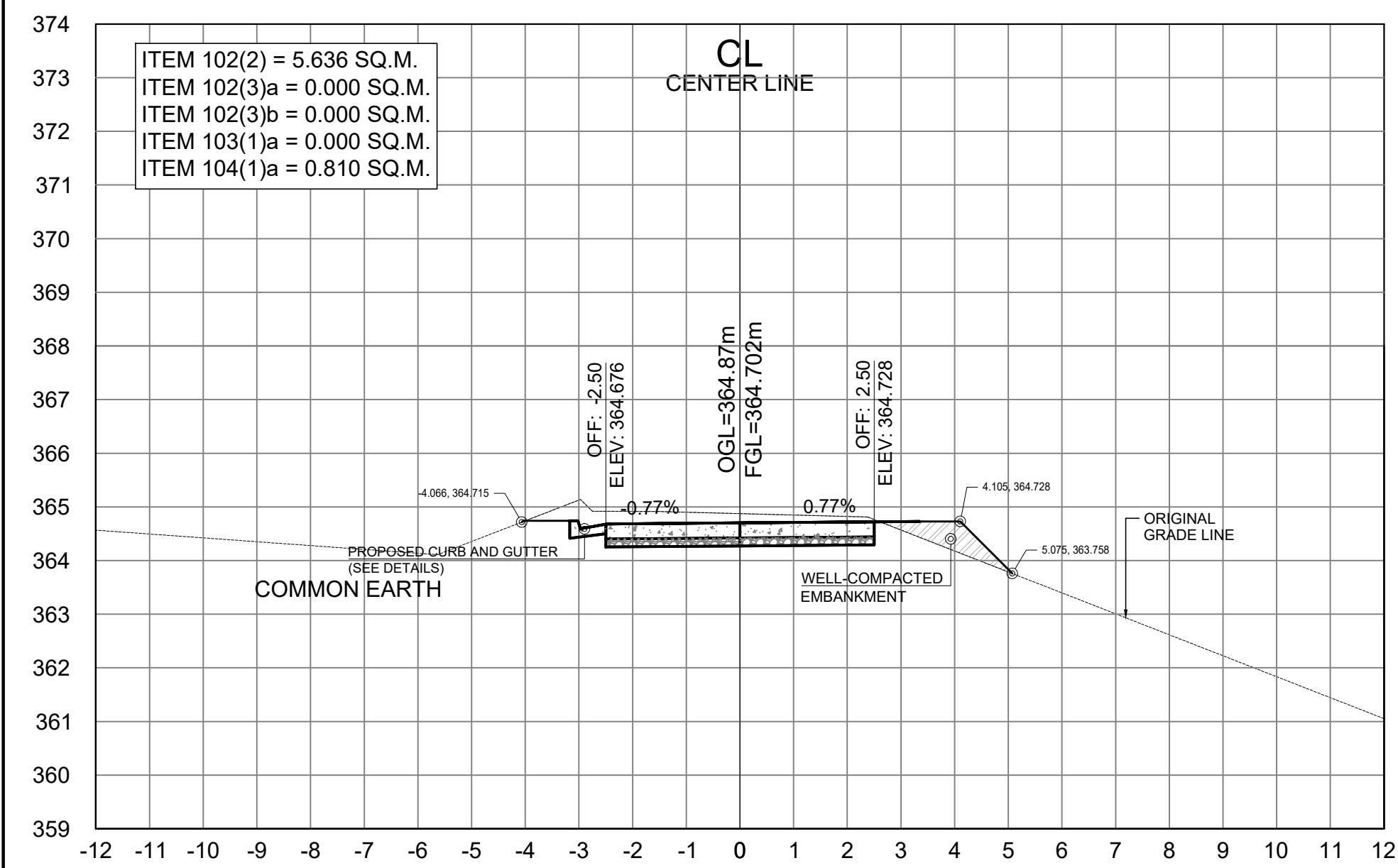
DATE:

APPROVED:
ISAGANI C. CAYME, CESE DISTRICT ENGINEER

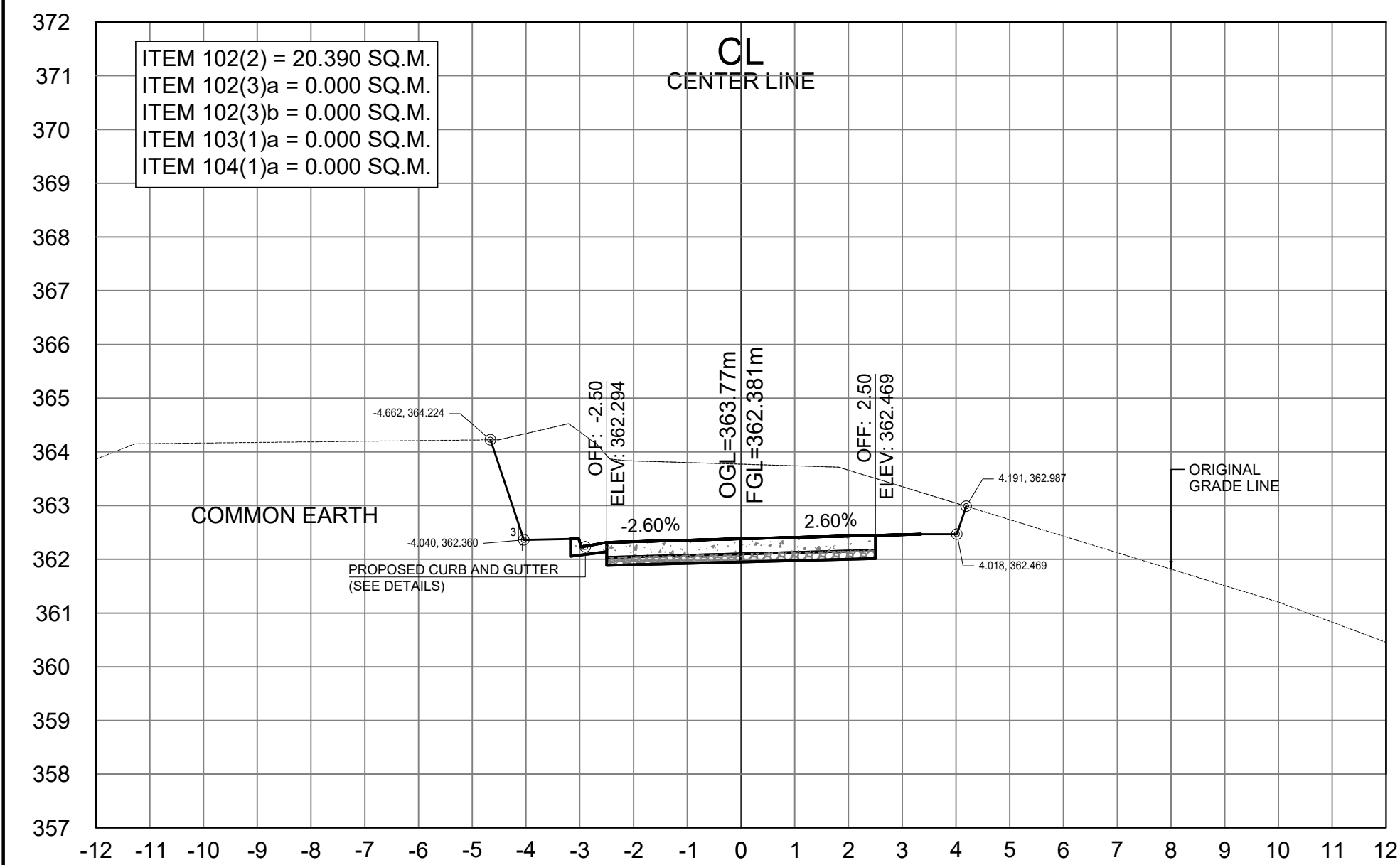
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SET NO. **01** SHEET NO. **64**

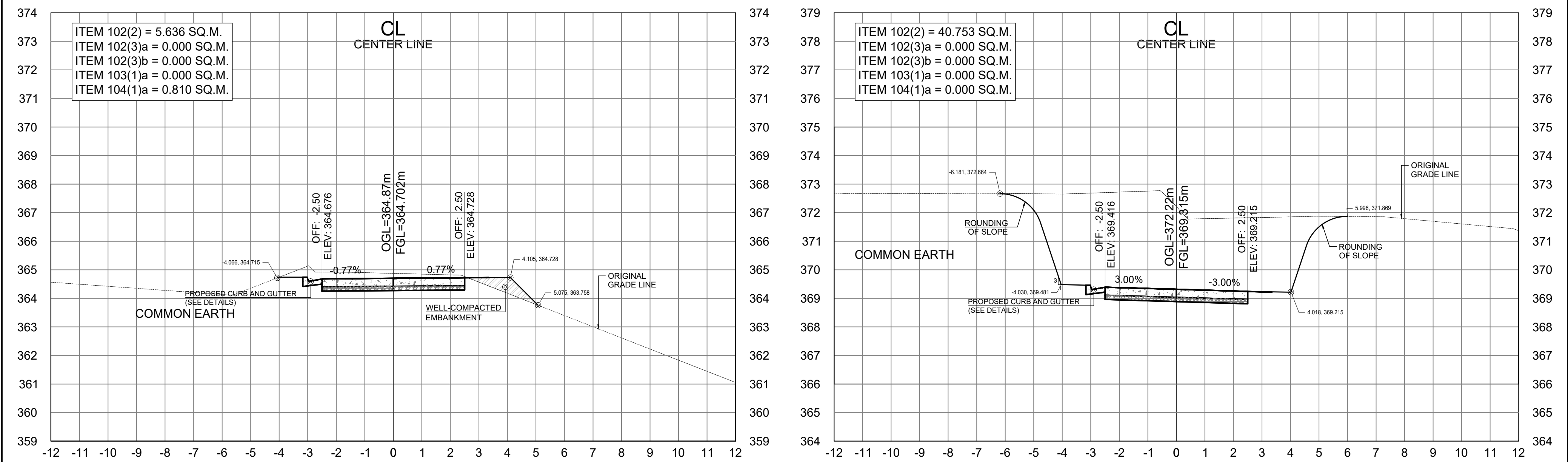
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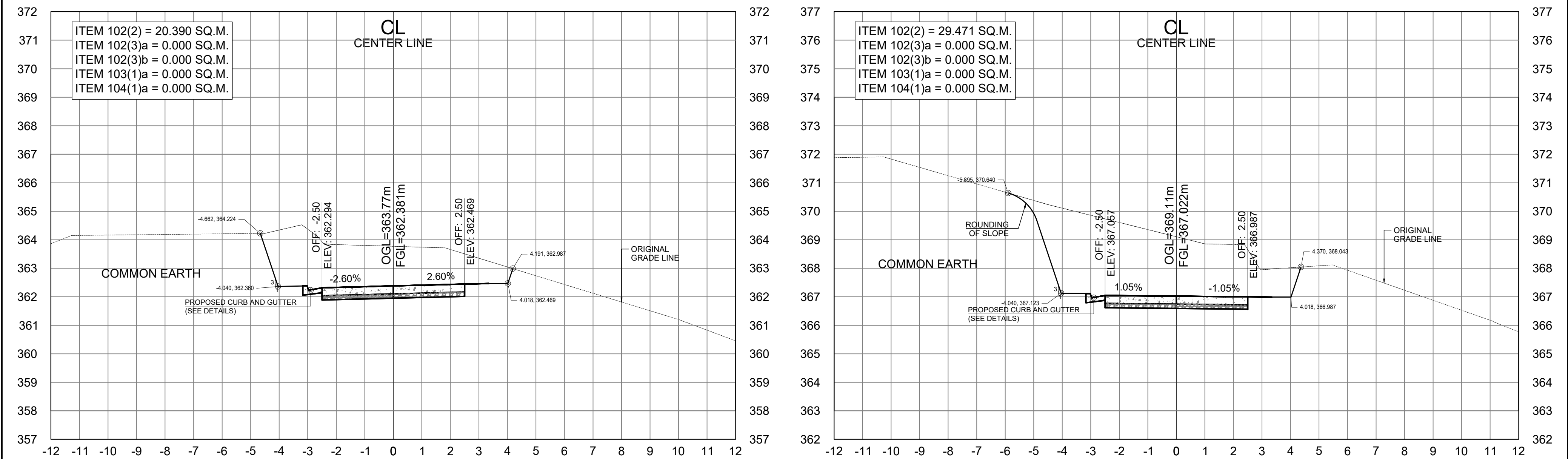
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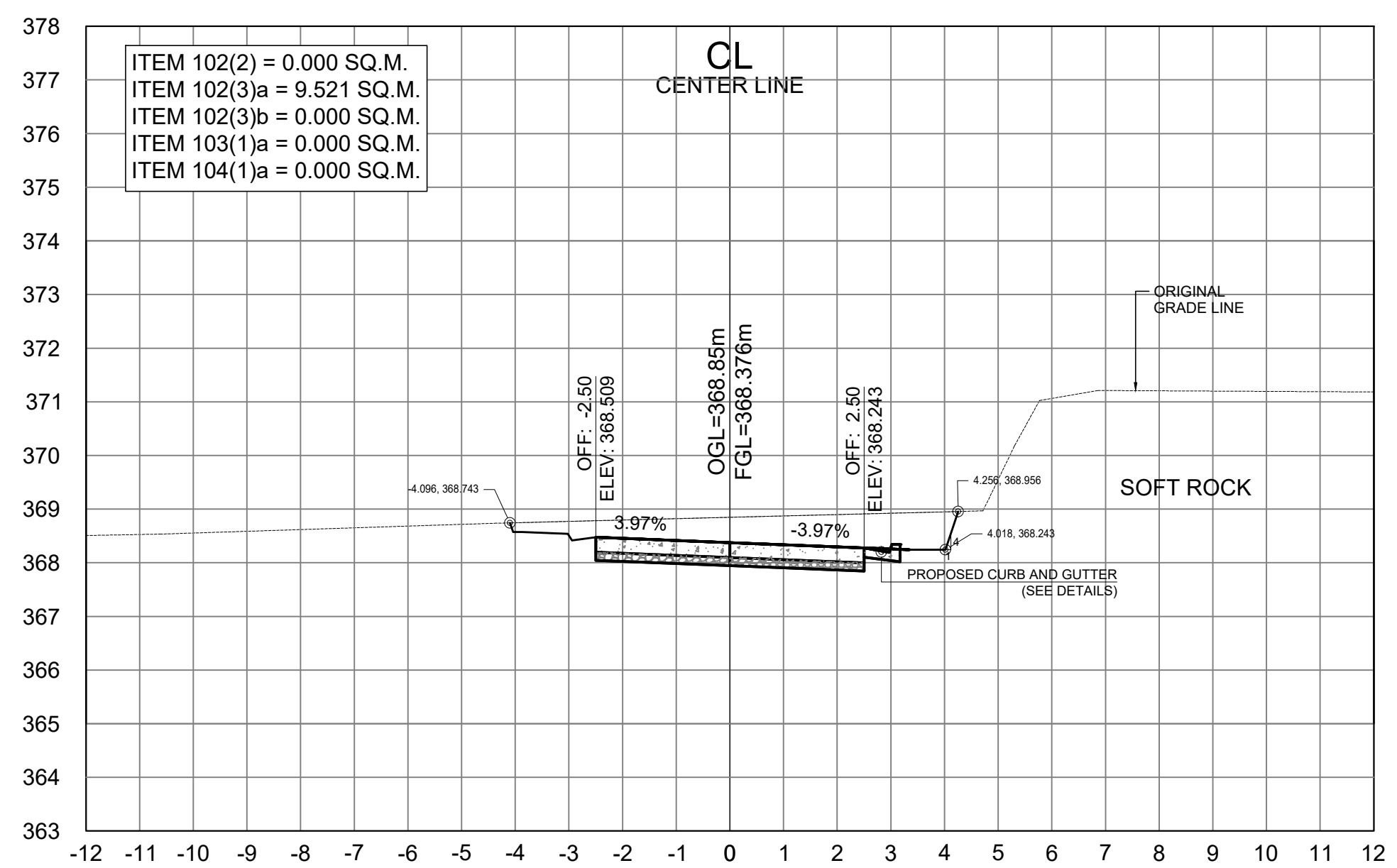
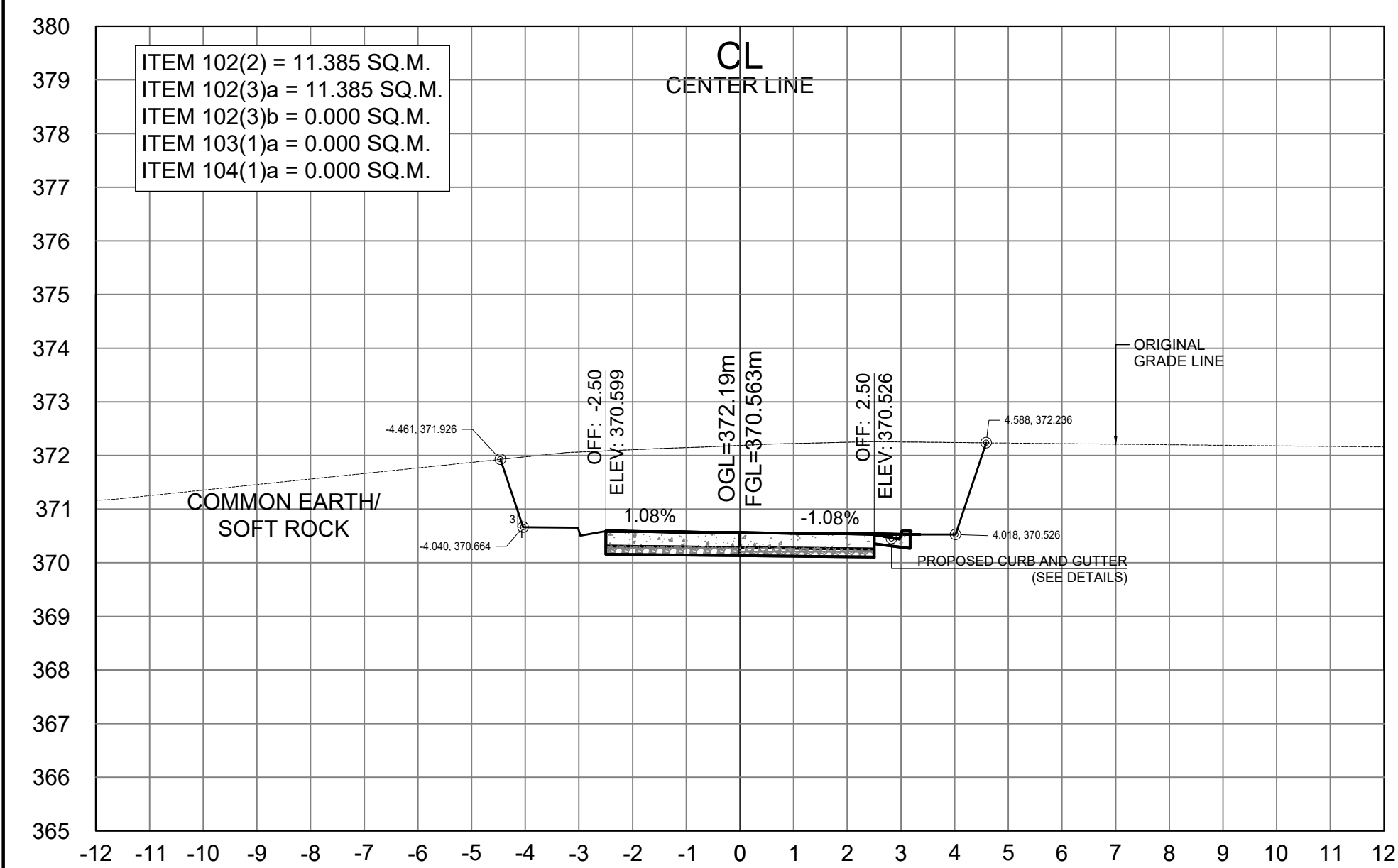
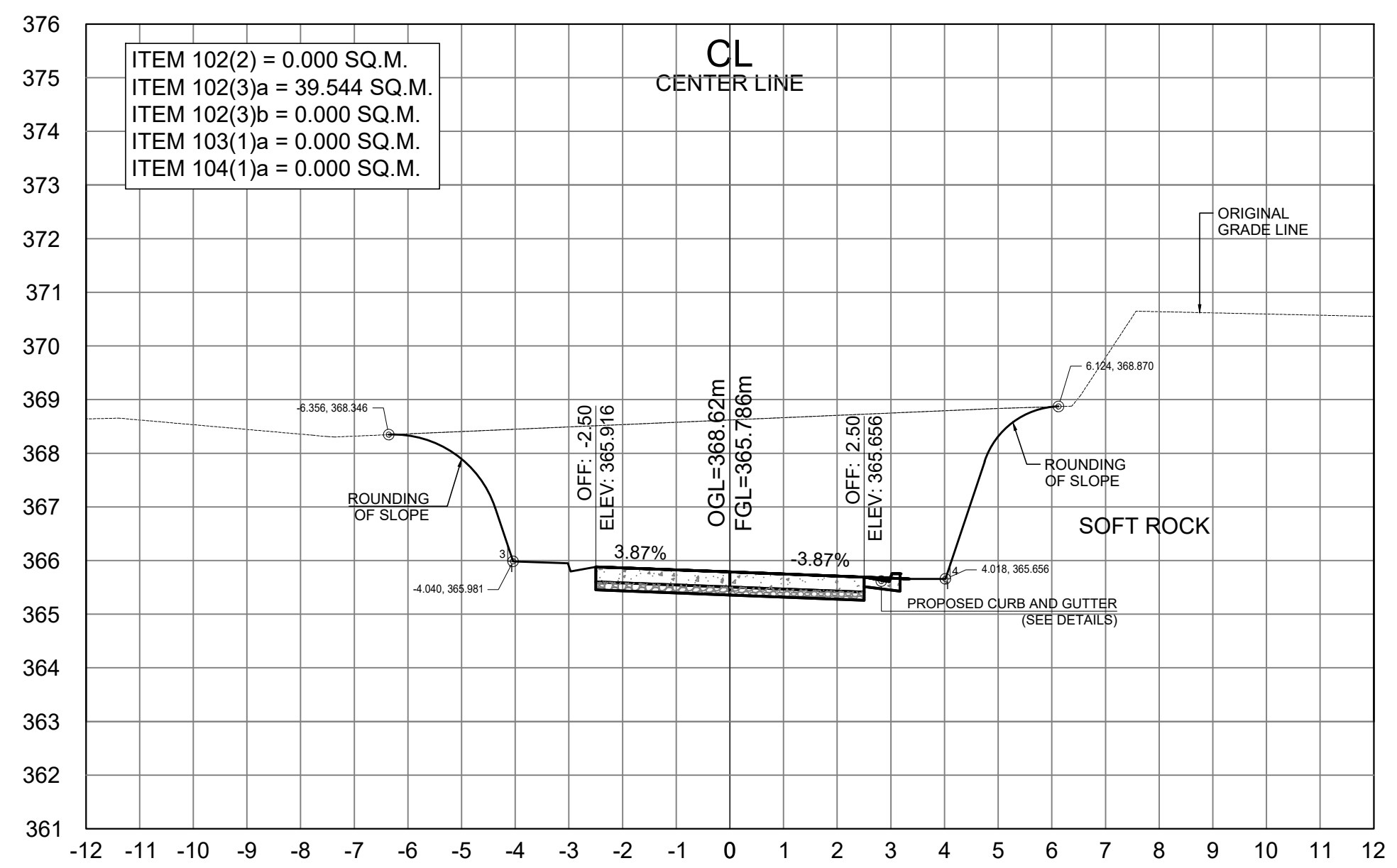
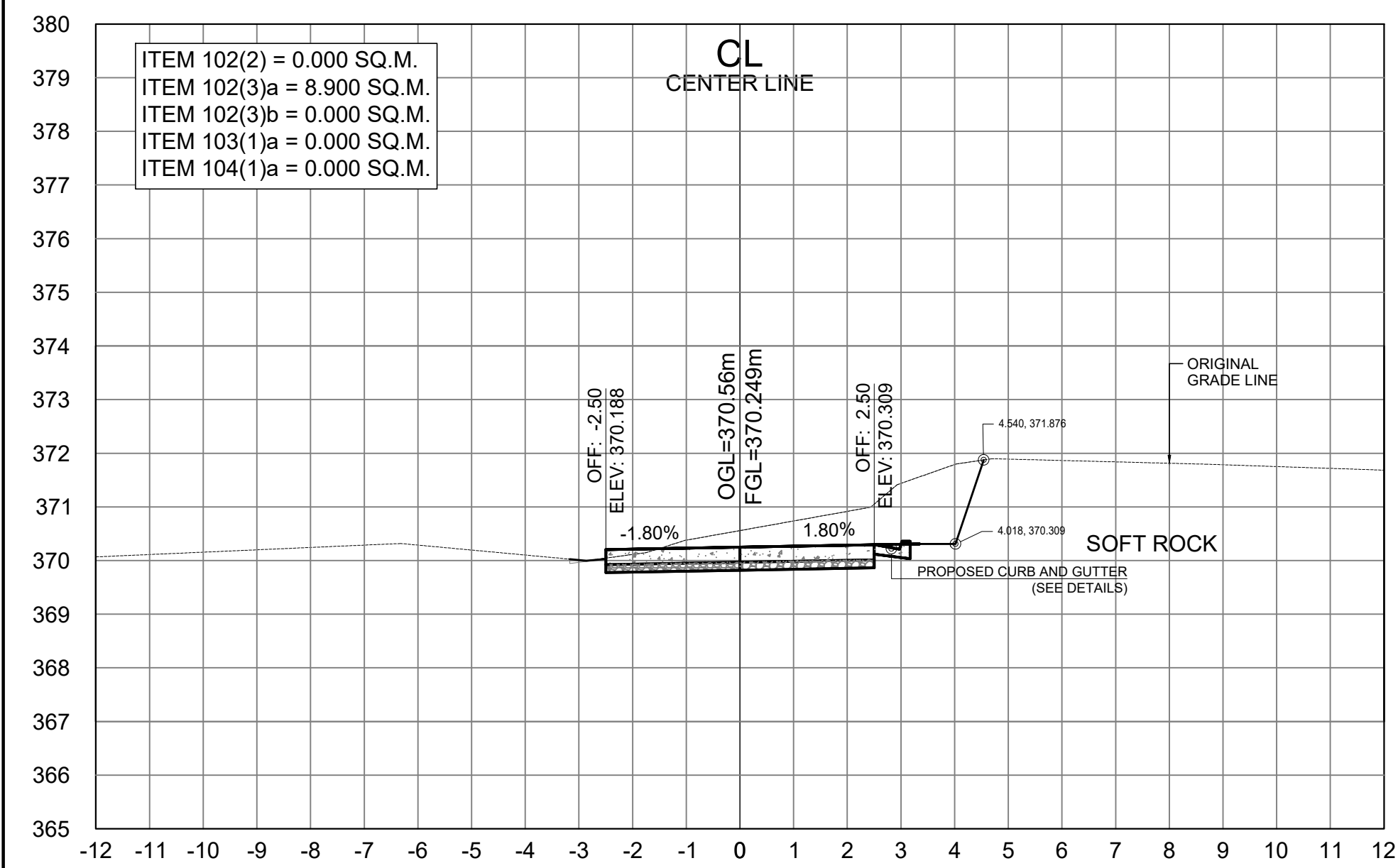
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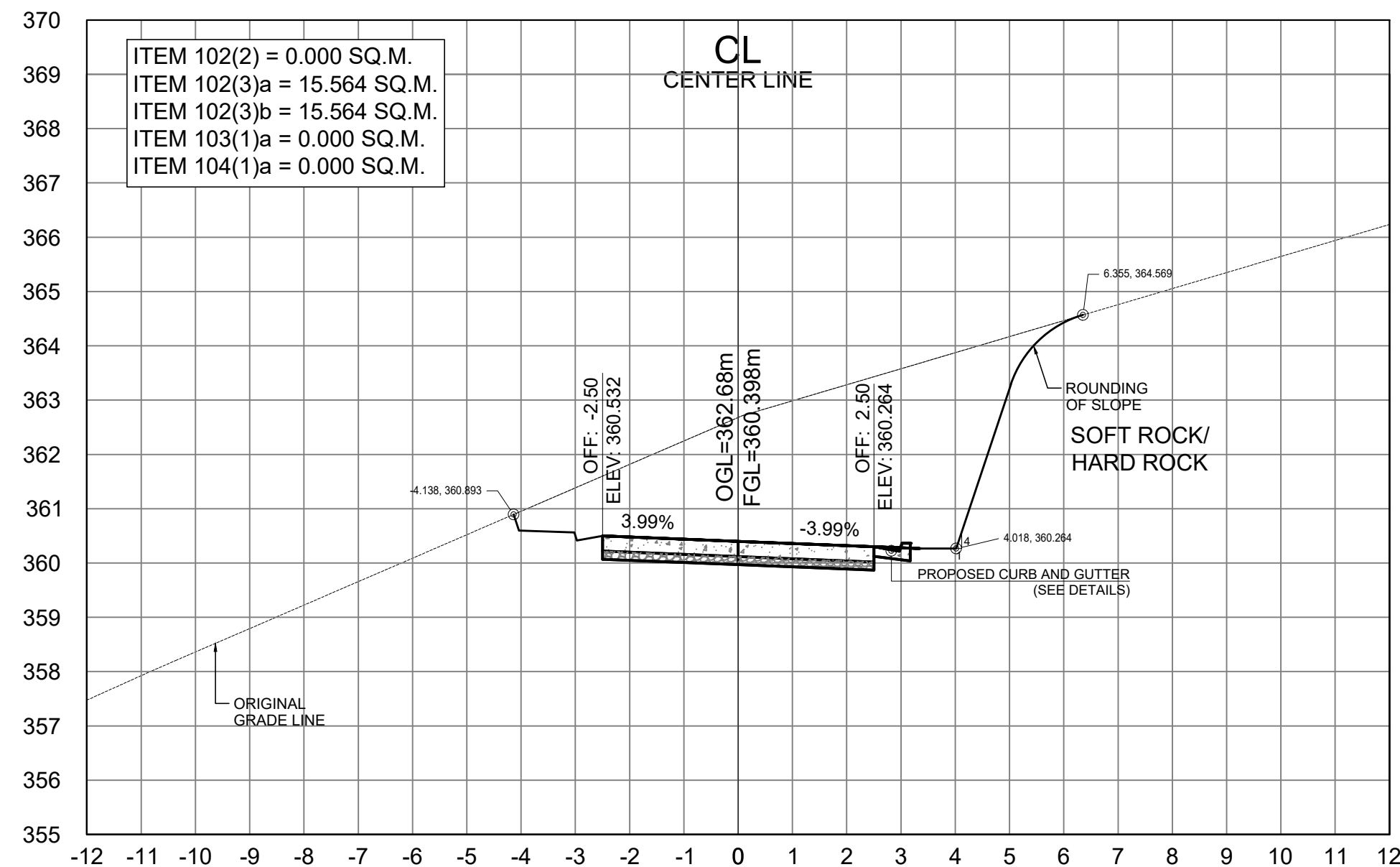


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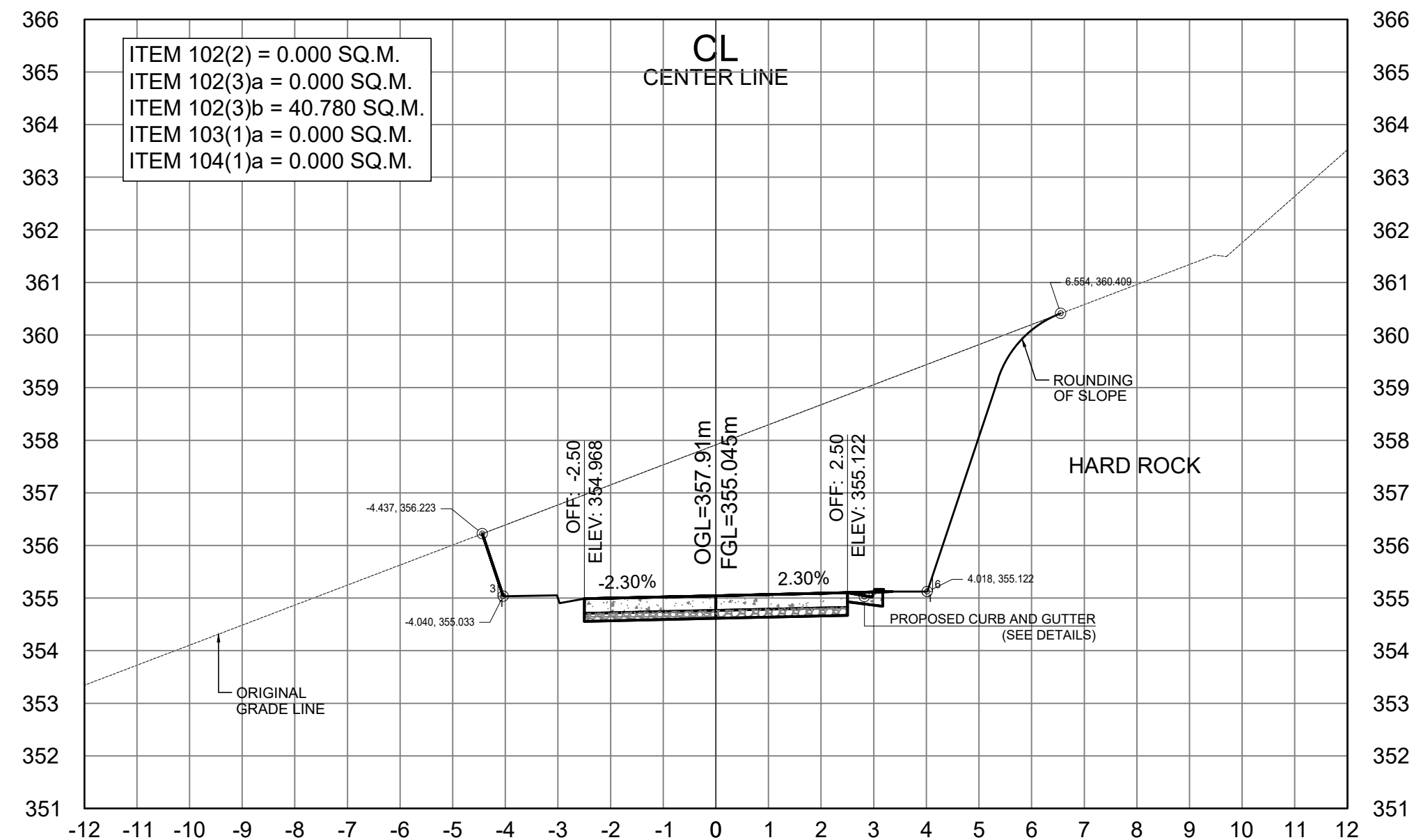


SCALE	
CROSS SECTIONS	1:100 MTS.

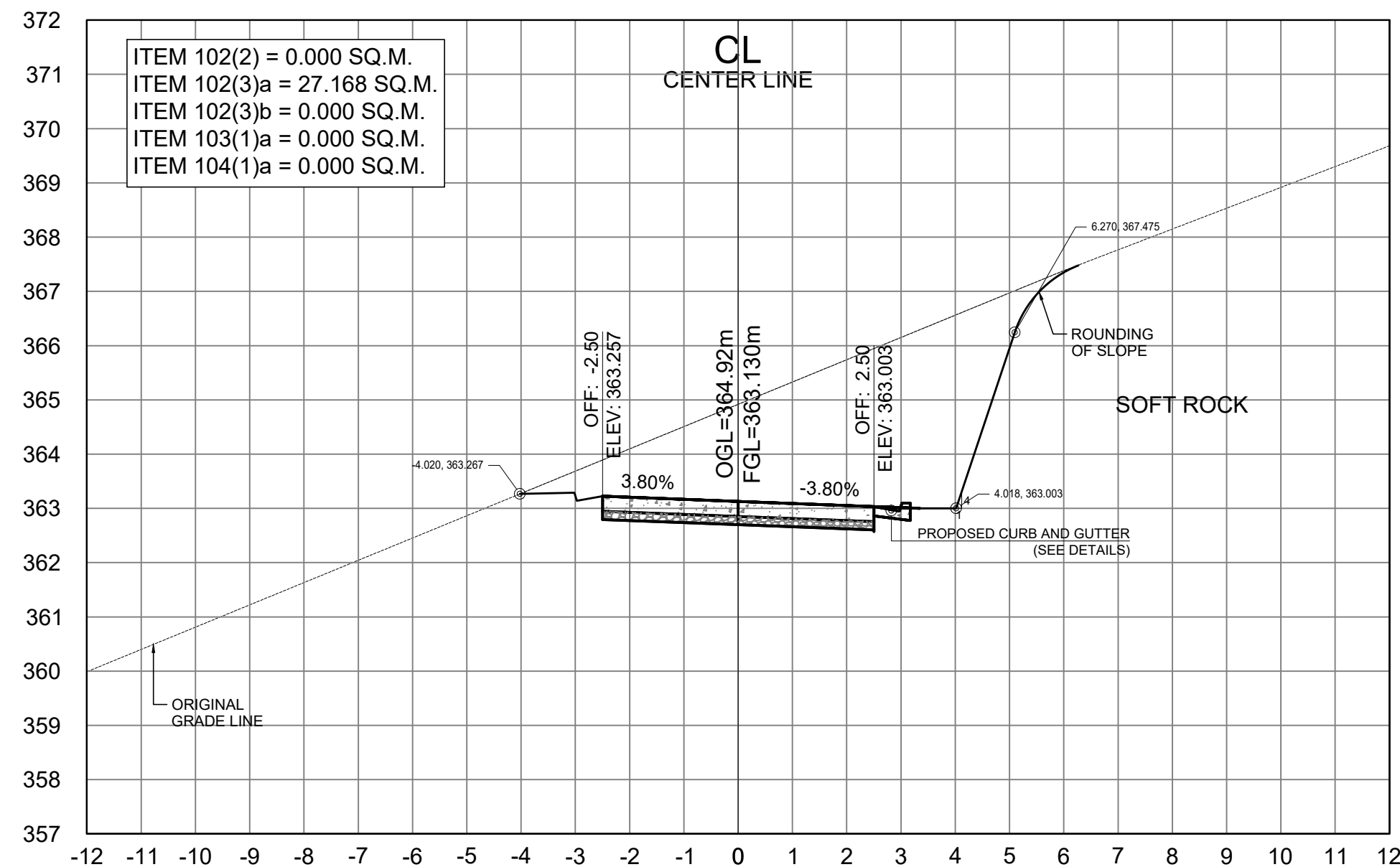
	PROJECT NAME AND LOCATION: CONSTRUCTION OF ROAD, PAYACPAK - PALAKPAK - LUMES - APNE, BARANGAY SAN PASCUAL, TUBA, BENGUET	SHEET CONTENTS: - CROSS SECTION	DRAFTED: DIANE B. ABAYAO ENGINEER II CYRUS P. MENDOZA ENGINEERING ASSISTANT PREPARED: DEXTER G. BIALNO ENGINEER II	REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:	SET NO.	SHEET NO.
				EDISON C. AMBALES ENGINEER II	ROMUALDO T. APALIAS OIC-CHIEF PLANNING AND DESIGN SECTION	EDGARDO G. ENRIQUEZ ASSISTANT DISTRICT ENGINEER	ISAGANI C. CAYME, CESE DISTRICT ENGINEER	CROSS SECTION 01 64	37 106
				DATE:	DATE:	DATE:	DATE:		



STA. 0+880.00

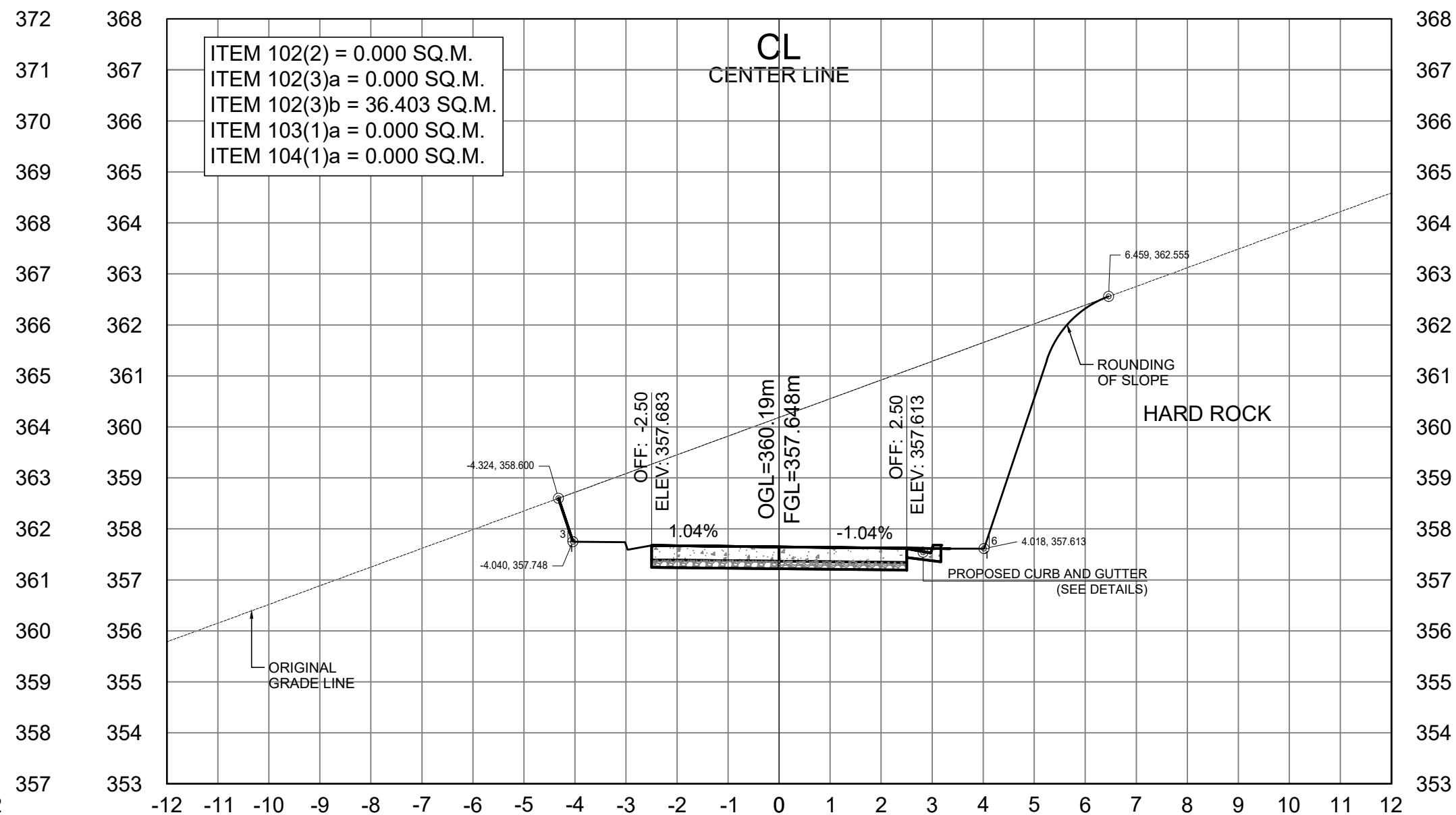


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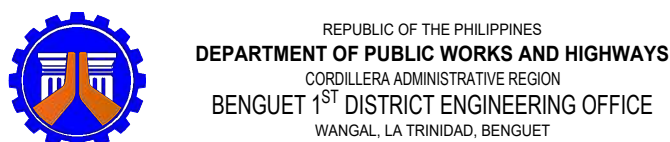


STA. 0+860.00

SCALE
CROSS SECTIONS 1:100 MTS.



STA. 0+900.00



PROJECT NAME AND LOCATION:
CONSTRUCTION OF ROAD, PAYACPAK -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET
TUBA, BENGUET

SHEET CONTENTS:
- CROSS SECTION

DRAFTED:
DIANE B. ABAYAO CYRUS P. MENDOZA
ENGINEER II ENGINEERING ASSISTANT
PREPARED:
DEXTER G. BIALNO
ENGINEER II

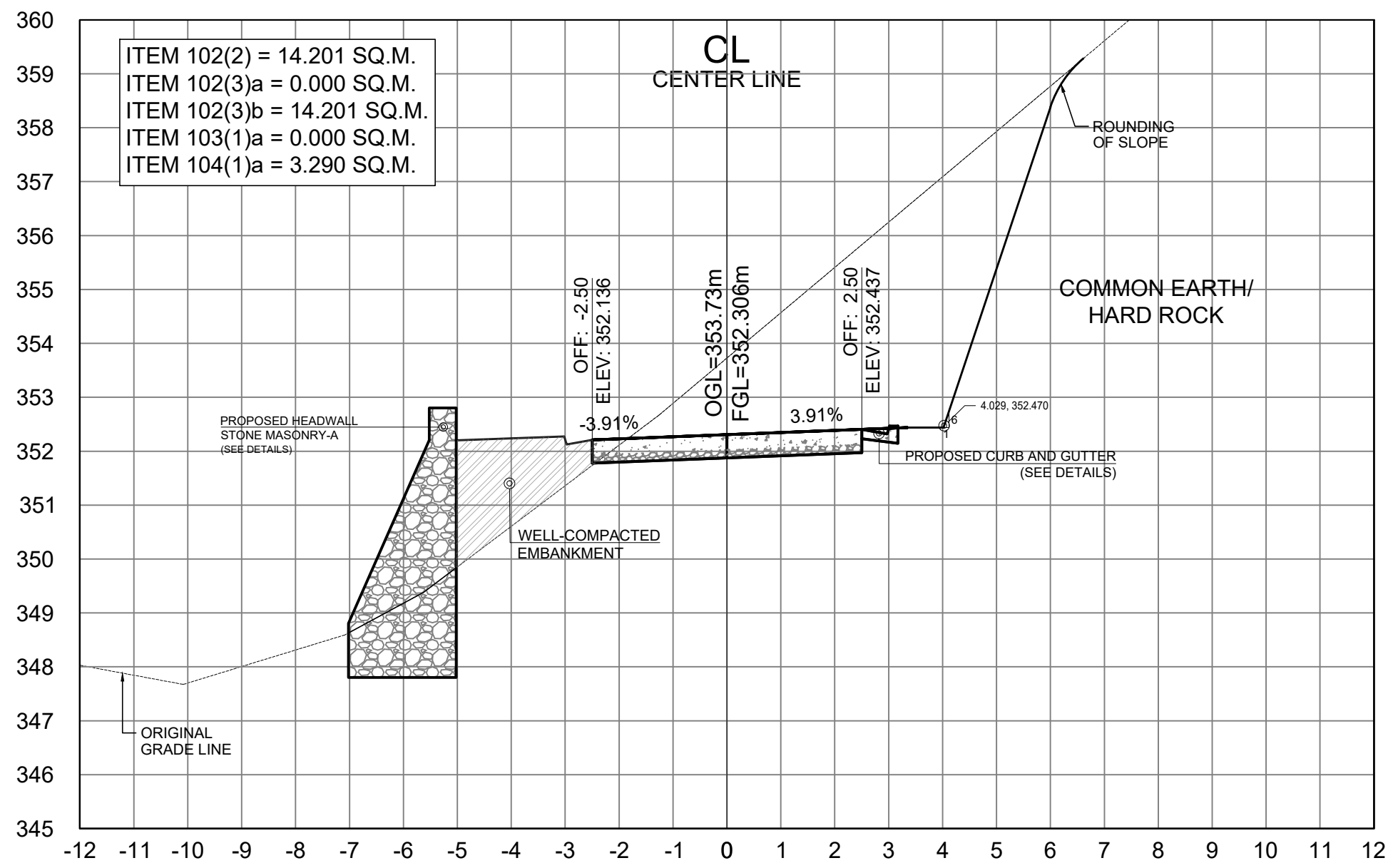
REVIEWED:
EDISON C. AMBALES
ENGINEER II
DATE:

SUBMITTED:
ROMUALDO T. APALIAS
OIC-CHIEF
PLANNING AND DESIGN SECTION
DATE:

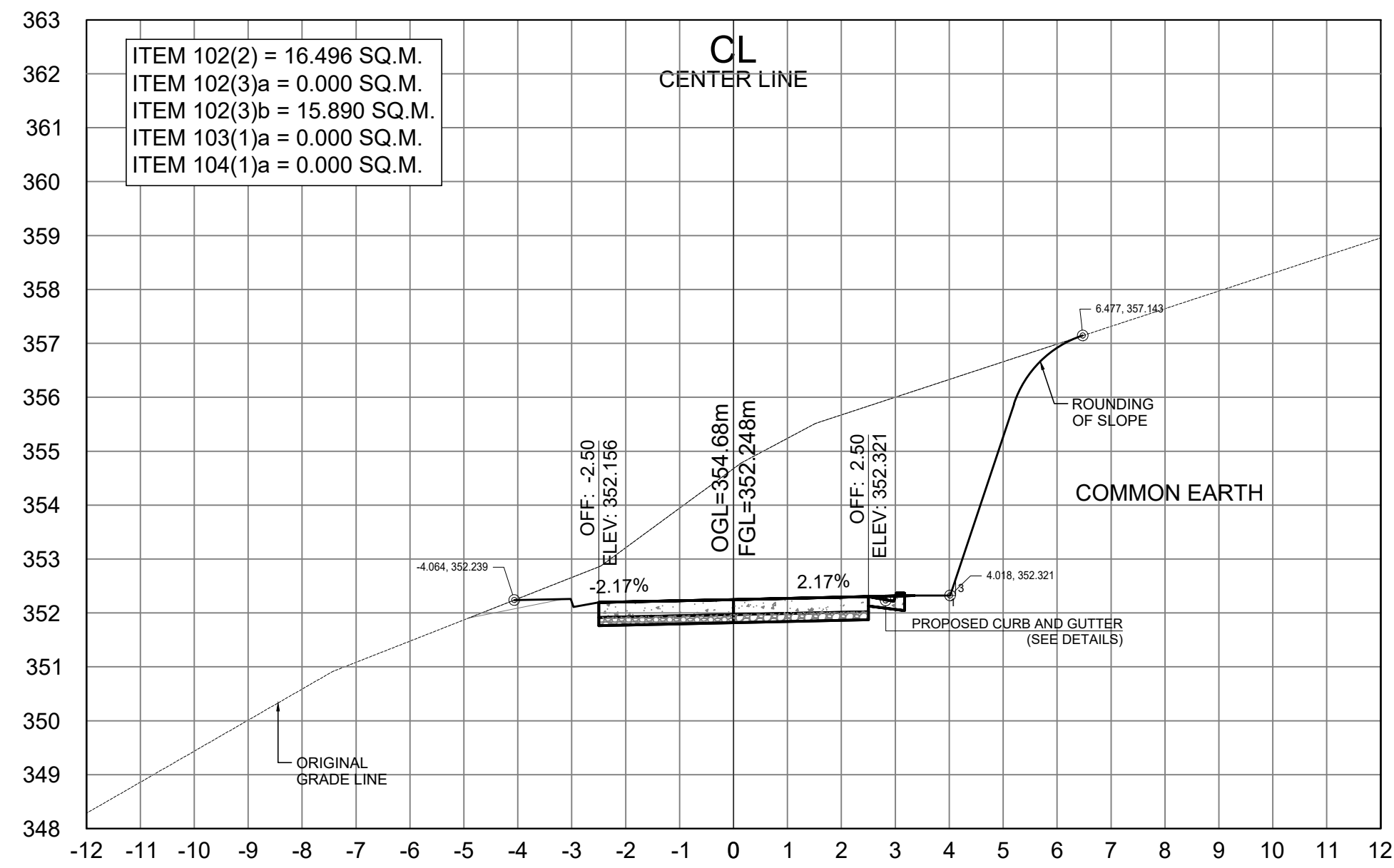
RECOMMENDED:
EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER
DATE:

APPROVED:
ISAGANI C. CAYME, CESE
DISTRICT ENGINEER
DATE:

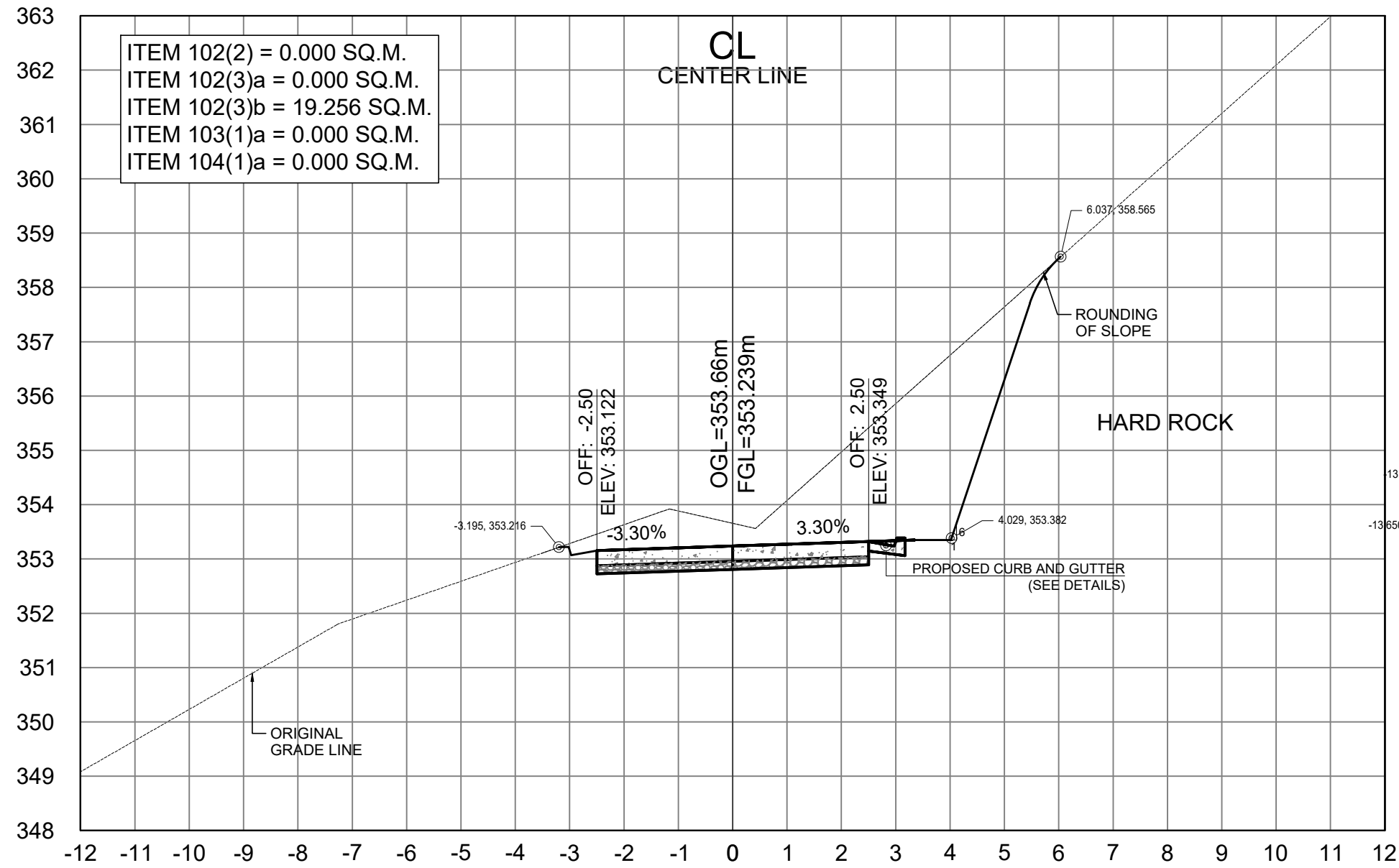
SET NO. SHEET NO.
CROSS SECTION 01 64 38 106



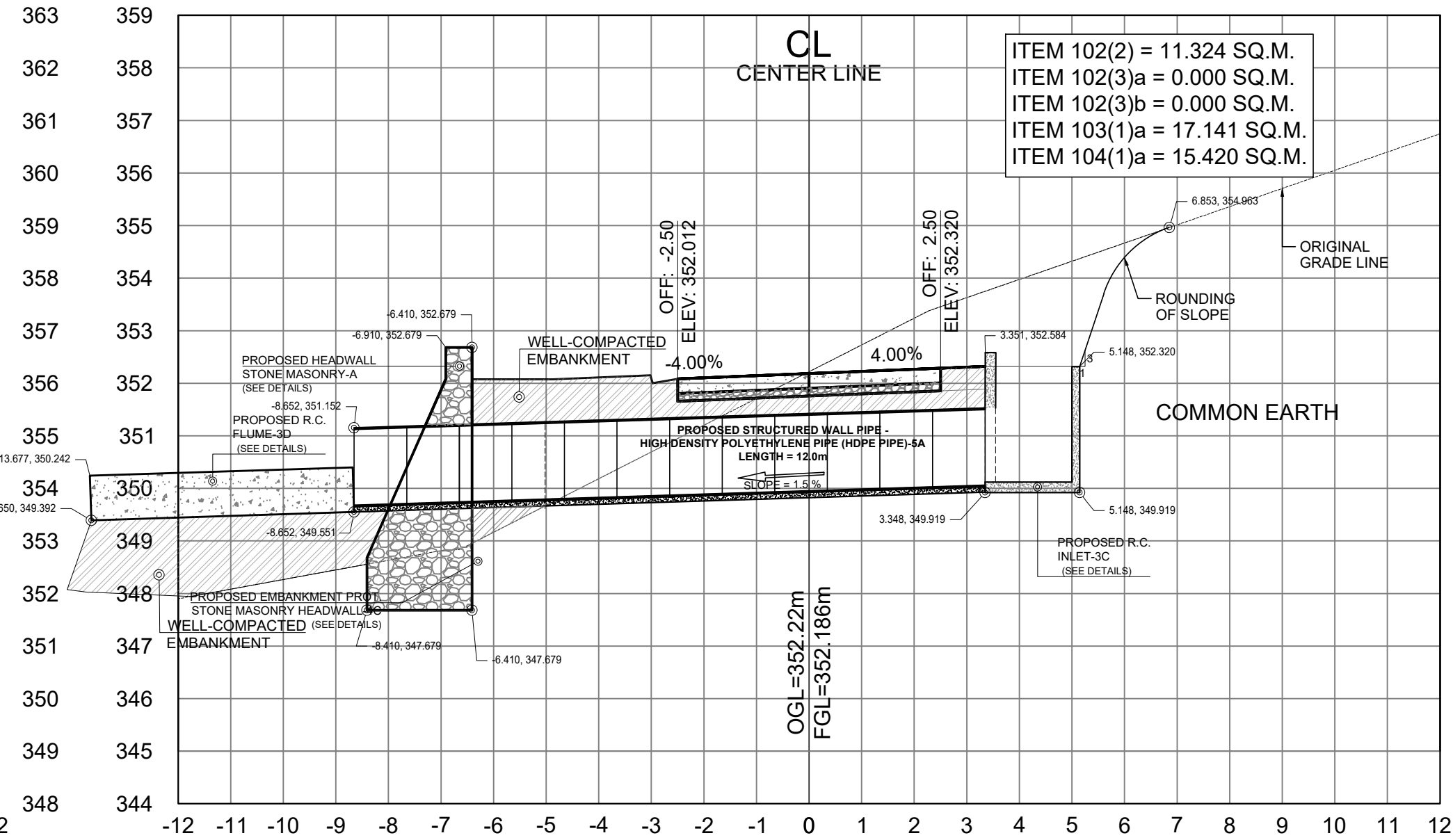
STA. 0+960.00



STA. 0+980.00

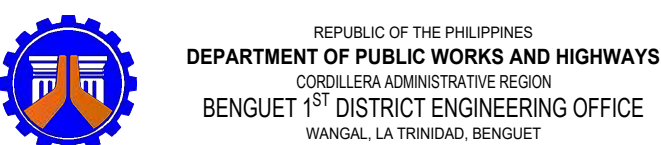


STA. 0+940.00



STA. 0+967.00

SCALE	
CROSS SECTIONS	1:100 MTS.



PROJECT NAME AND LOCATION:
**CONSTRUCTION OF ROAD, PAYACPAK -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET**

TUBA, BENGUET

SHEET CONTENTS:
- CROSS SECTION

DRAFTED:
DIANE B. ABAYAO ENGINEER II
CYRUS P. MENDOZA ENGINEERING ASSISTANT

PREPARED:
DEXTER G. BIALNO ENGINEER II

REVIEWED:
EDISON C. AMBALES ENGINEER II

DATE:

SUBMITTED:
ROMUALDO T. APALIAS OIC-CHIEF
PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:
EDGARDO G. ENRIQUEZ ASSISTANT DISTRICT ENGINEER

DATE:

APPROVED:
ISAGANI C. CAYME, CESE DISTRICT ENGINEER

DATE:

SET NO. **01** SHEET NO. **64**