

District of Sooke

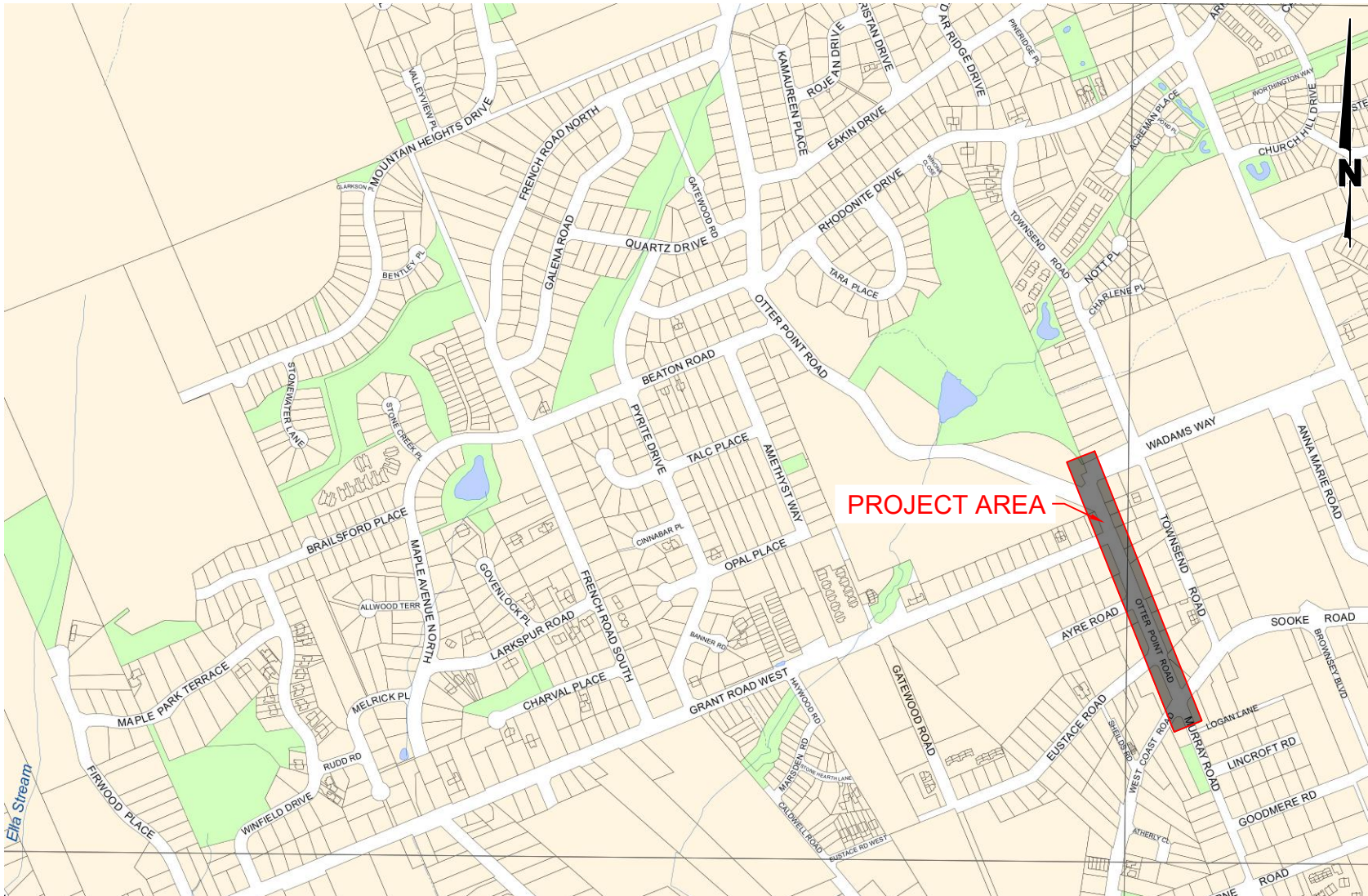
OTTER POINT ROAD

ACTIVE TRANSPORTATION PROJECT

ISSUED FOR TENDER

JUNE 7, 2021

District of Sooke File: 5330-20

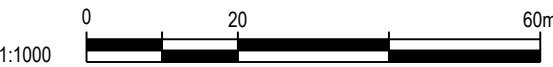


LOCATION PLAN
N.T.S.



LIST OF DRAWINGS			
SHEET No.	DWG No.	DESCRIPTION	STATION
01	C100	COVER SHEET	
02	C101	GENERAL NOTES	
03	C200	GRADING PLAN	
04	C201	PLAN & PROFILE	STA: 1+000 TO 1+120
05	C202	PLAN & PROFILE	STA: 1+120 TO 1+260
06	C203	PLAN & PROFILE	STA: 1+260 TO 1+360
07	C204	PLAN & PROFILE	
08	C205	WALL DETAILS	
09	C300	STORMWORKS - WEST	STA: 1+160 TO 1+275
10	C301	STORMWORKS - EAST	STA: 1+150 TO 1+310
11	C400	SECTIONS	STA: 1+012 TO 1+190
12	C401	SECTIONS	STA: 1+100 TO 1+190
13	C402	SECTIONS	STA: 1+200 TO 1+270
14	C403	SECTIONS	STA: 1+290 TO 1+350
15	C501	SIGNAGE	

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ON POINT - JUN 7, 2021 3:31 PM - C:\228 OTTER POINT ROAD\SERIAL\001 CAD & SECOND\DESIGN DRAWING\00228 - COVER.DWG



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ISSUED				REVISIONS			
No.	DESCRIPTION	DATE	SIGN	No.	DESCRIPTION	DATE	SIGN
1	ISSUED FOR DISCUSSION	2020-10-09	KS				
2	ISSUED FOR 85% DESIGN PACKAGE	2020-12-02	KS				
3	ISSUED FOR TENDER	2021-06-07	FC				

TECHNOLOGIST: FC
REVIEWED: EN
ENGINEER: ME

SEAL

DISTRICT OF
SOOKE

OTTER POINT ROAD
ACTIVE TRANSPORTATION
PROJECT
COVER SHEET

ON POINT PROJECT No.
228-03
GOVERNING AUTHORITY FILE No.
5330-20
SHEET 01 OF 13
REV: ---
ON POINT DRAWING No.
228-C100

GENERAL NOTES

1. PERMITS FOR WORKS WITHIN ANY PUBLIC AREA OR RIGHT OF WAY SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO ANY WORKS COMMENCING WITHIN THOSE AREAS.
2. BACKFILLING OF WORKS NOT TO COMMENCE UNTIL WORKS AND BEDDING HAVE BEEN APPROVED BY THE ENGINEER OF RECORD, OR THEIR REPRESENTATIVE.
3. ALL WORK AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER.
4. IN AREAS WHERE APPURTENANCES EXIST PRIOR TO CONSTRUCTION, APPURTENANCES SHALL BE ADJUSTED TO SUIT NEW GRADES.
5. CONTRACTOR TO ENSURE ANY EXISTING MONUMENTS AND IRON PINS ARE NOT DISTURBED. ANY MONUMENTS OR IRON PINS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY A BCLS AT THE CONTRACTORS EXPENSE.
6. CONTRACTOR RESPONSIBLE TO PLACE A BC 1 CALL AND GET ASSUILT DRAWINGS FROM UTILITIES AND MUNICIPALITY PRIOR TO THE COMMENCEMENT OF ANY WORKS.
7. ALL WORK AND MATERIAL TO BE IN ACCORDANCE WITH DISTRICT OF SOOKE BYLAW 404, MMCD PLATINUM EDITION, PROJECT SPECIFICATIONS, AND CONSTRUCTION DOCUMENTS.
- a. SPECIFICATIONS TAKE PRECEDENCE OVER DRAWINGS
- b. ANY AND ALL DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH INSTALLATION
8. SITE MEETING REQUIRED PRIOR TO COMMENCEMENT OF CONSTRUCTION WITH DISTRICT OF SOOKE, ENGINEER, AND CONTRACTOR.
9. CONNECTION OR ALTERATION OF EXISTING DISTRICT OWNED UTILITIES TO BE UNDERTAKEN BY RESPECTIVE UTILITY FORCES ONLY AT THE DEVELOPERS EXPENSE UNLESS OTHERWISE NOTED.
10. ALL EXISTING SERVICES TO BE EXPOSED PRIOR TO CONSTRUCTION AND INVERTS CONFIRMED. NOTIFY ENGINEER IN WRITING OF ANY DISCREPANCIES IMMEDIATELY AND BEFORE PROCEEDING WITH CONSTRUCTION.
11. CONTRACTOR TO VERIFY LOCATIONS OF SERVICES, FEATURES AND APPURTENANCES. ANY DISCREPANCIES TO BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER.
12. ALL ELEVATIONS BASED ON METRIC GEODETIC DATUM UNLESS OTHERWISE NOTED.
13. ENGINEER TO HAVE REPRESENTATIVE ON SITE DURING THE ROAD CONSTRUCTION AND INSTALLATION OF UTILITIES. RESIDENT INSPECTOR TO PREPARE DAILY REPORTS AND SUBMIT WEEKLY TO DISTRICT OF SOOKE.
14. CONTRACTOR TO MAINTAIN IN THE SITE OFFICE AT ALL TIMES FOR USE BY THE ENGINEER, CITY AND TRADES, A COPY OF THE LATEST APPROVED DRAWINGS, ON GOING REDLINE DRAWINGS, MMCD SPECIFICATIONS, DISTRICT OF SOOKE BYLAW 404 SPECIFICATIONS, BINDER OF ALL SITE INSTRUCTION, CLARIFICATION, CONTEMPLATED CHANGES NOTICES AND APPROVED CHANGE ORDERS.
15. NO CHANGE TO THE DESIGN IS PERMITTED WITHOUT A FORMAL INSTRUCTION FROM THE ENGINEER. REQUESTS FOR INFORMATION FROM THE CONTRACTOR ARE TO BE IN WRITING. RESPONSES TO RFIS OR OTHER CONTRACT OR FIELD INSTRUCTIONS ARE TO BE ISSUED BY THE ENGINEER IN WRITING.
16. BCLS TO PROVIDE RIGHT OF WAY, ROAD DEDICATION PLANS.
17. CAUTION GAS MAIN - CALL BEFORE YOU DIG 1-800-474-6886. (**6886)
18. FOR HYDRO, TELUS, SHAW AND FORTIS BC WORKS REFER TO DWGS SUPPLIED BY UTILITY COMPANIES. INFORMATION ON UTILITIES SHOWN ON CIVIL DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION. REPORT CONFLICTS TO THE ENGINEER. OBTAIN PERMITS FOR UTILITIES AS APPLICABLE PRIOR TO STARTING. UTILITY BOXES ARE TO BE SET IN ELEVATION AND LOCATION AFTER THE BEDS HAVE BEEN POURED. SERVICE BOXES WHICH ARE LOCATED IN THE SIDEWALK TO BE NON-SLIP TEXTURED SURFACE.
19. ALL UTILITY BOXES TO HAVE EDGES PERPENDICULAR TO EDGE OF ROAD.
20. ALL EXTENDABLE UTILITIES AND SERVICE CONNECTIONS IN ROCK TRENCHES TO HAVE ROCK BLASTED & EXCAVATED MIN 2.0m BEYOND END OF SERVICE.

SEWER AND DRAIN

1. ALL SEWER SERVICES TO BE PLACED AT MINIMUM 2% GRADE FROM OBVERT OF MAIN TO PROPERTY LINE AND EXTEND MINIMUM OF 2m INTO PROPERTY.
2. ALL SEWER MAINS TO BE LOW PRESSURE AIR TESTED IN ACCORDANCE WITH MMCD.
3. COMPACTION TESTING TO BE IN ACCORDANCE WITH DISTRICT OF SOOKE BYLAW 404.
4. ALL SEWER MAINS TO BE CCTV INSPECTED IN ACCORDANCE WITH MMCD. POWER FLUSH & CCTV EXISTING MAIN FROM 1'X MH 1' TO NEAREST DOWNSIDE MANHOLE.
5. ALL 100mm and 150mm DIAMETER STORM SEWER SHALL BE SDR 28. ALL STORM SEWER 200mm AND LARGER SHALL BE SDR 35 UNLESS OTHERWISE NOTED. MINIMUM COVER 1.0m UNLESS NOTED.
6. CATCH BASIN LEADS TO BE 1500 SDR 28 PVC AT 2.0% MIN UNLESS OTHERWISE NOTED.

CONCRETE MANHOLES

1. MANHOLE LIDS TO BE INSTALLED TO MATCH ROAD GRADE. ON ROAD GRADES GREATER THAN OR EQUAL TO 6%, CASTING TO BE ENCASED IN CONCRETE. RIM ELEVATIONS ARE APPROXIMATE ONLY FOR ESTIMATING QUANTITIES AND ROUGH IN.
2. ALL PRECAST OR CAST-IN-PLACE CONCRETE INCLUDING FRAMES AND GRATES TO BE HEAVY DUTY WITH H-20 LOADING UNLESS OTHERWISE NOTED

CONCRETE

1. HAND FORMED CURB AND GUTTER, SIDEWALKS AND STAIRWAYS
- SLUMP: 80mm
- AIR ENTRAINMENT: 5%-8%
- MAXIMUM AGGREGATE SIZE: 20mm
- MINIMUM CEMENT CONTENT: 335 KG/M3
- MINIMUM 28 DAY COMPRESSIVE STRENGTH: 32 MPA
2. EXTRUDED CURB AND GUTTER
- EXPOSURE CLASS: C-2
- SLUMP: 0-25mm
- AIR ENTRAINMENT: 6%-9%
- FINESS MODULUS: 2.1-2.4
- MAXIMUM AGGREGATE SIZE: 10mm
- MINIMUM CEMENT CONTENT: 335 KG/M3
- MINIMUM 28 DAY COMPRESSIVE STRENGTH: 32 MPA

ROADS

1. ALL MATERIALS TO BE IN ACCORDANCE WITH DISTRICT OF SOOKE STANDARDS. WHERE MATERIALS STANDARDS ARE NOT SPECIFIED MASTER MUNICIPAL CONTRACT DOCUMENT STANDARDS SHALL BE USED. IN ALL OTHER CASES MATERIALS STANDARDS SHALL BE IN ACCORDANCE WITH THE ENGINEER OF RECORD'S SPECIFICATION.
2. PERMITS FOR WORKS WITHIN ANY PUBLIC AREA OR ROW SHALL BE OBTAINED PRIOR TO ANY WORKS COMMENCING WITHIN THOSE AREAS.
3. ROAD CONSTRUCTION AND SECTIONS IN ACCORDANCE WITH THE DRAWINGS.

PROPERTY LINES AND RIGHTS OF WAY

1. RIGHTS OF WAY SHOWN REPRESENT GENERAL INTENT. REFER TO DRAWING PREPARED BY B.C.L.S FOR FINAL LOCATIONS.
2. B.C.L.S. TO ESTABLISH LOCATIONS FOR UTILITY RIGHTS OF WAY AND PRIVATE EASEMENTS AS REQUIRED. SRWS AND EASEMENTS FOR UTILITIES, DRIVEWAYS ETC. ARE OMITTED FROM CONSTRUCTION DRAWINGS FOR CLARITY.

SIGNAGE & PAVEMENT MARKINGS

1. PAVEMENT MARKINGS SUCH AS CROSSWALKS AND STOPBARS ARE TO BE THERMAL PLASTIC WITH NON-SLIP SURFACE. LONG PAINT LINES SUCH AS CENTERLINES AND FOG LINES ARE TO BE PAINT IN ACCORDANCE WITH MMCD SPECIFICATIONS. SIGNAGE LOCATIONS SHOWN ARE FOR GENERAL INTENT ONLY. ALL SIGNS AND LOCATIONS ARE TO BE IN ACCORDANCE WITH MUTCD.

SURVEY

1. ALL SURVEY LAYOUT AND RECORD INFORMATION TO BE CARRIED OUT BY CONTRACTOR.

EARTHWORKS, BLASTING AND GEOTECHNICAL

1. LOCAL AUTHORITY SHALL BE GIVEN NOTICE AS REQUIRED PRIOR TO ANY BLASTING TAKING PLACE.
2. EARTHWORKS PRODUCTS/ MATERIALS MAY REQUIRE PERMIT PRIOR TO ANY REMOVAL OR DEPOSITS. CONTRACTOR TO ENSURE PERMITS ARE OBTAINED.
3. ALL RETAINING WALLS AND EARTHWORK STRUCTURES TO BE APPROVED BY THE GEOTECHNICAL ENGINEER OF RECORD.
4. ALL FILL TO BE COMPACTED TO MINIMUM 95% STANDARD MODIFIED PROCTOR DENSITY UNLESS OTHERWISE NOTED OR DIRECTED BY GEOTECHNICAL ENGINEER. FILL IN LANDSCAPE AREAS TO BE MINIMUM 85% STANDARD MODIFIED PROCTOR DENSITY. PLACEMENT AND DEPTH OF SOIL, PER LANDSCAPE DRAWINGS. LANDSCAPE CONSULTANT TO PROVIDE WRITTEN ACCEPTANCE OF SUBGRADE PRIOR TO PLACING SOIL.
5. GEOTECHNICAL ENGINEER TO PROVIDE WRITTEN ACCEPTANCE OF SUBGRADE PRIOR TO CONSTRUCTING STRUCTURAL WALLS.
6. GEOTECHNICAL ENGINEER TO APPROVE ALL RETAINING WALLS AND EARTHWORK STRUCTURES AND PROVIDE APPROVAL TO THE GOVERNING AUTHORITIES.
7. GEOTECHNICAL CERTIFICATION IS REQUIRED ON ALL RETAINING WALLS GREATER THAN 1.2M IN HEIGHT.

EROSION AND SEDIMENT CONTROL

1. ALL WORKS TO BE IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLANS.
2. CONTRACTOR TO CONSTRUCT EROSION AND SEDIMENT CONTROL MEASURES TO PREVENT ANY RUNOFF, IN ACCORDANCE WITH DISTRICT OF SOOKE BYLAW.

EROSION AND SEDIMENT CONTROL PRACTICES

- DUST CONTROL
1. EXCAVATIONS TO BE SPRINKLED UNTIL DAMP OR TO THE DISCRETION OF THE ENGINEER/EROSION AND SEDIMENT CONTROL SUPERVISOR. DO NOT OVER-WATER SO AS TO CREATE RUNOFF.
2. ALL SPILLS ARE TO BE IMMEDIATELY COVERED NIGHTLY WITH ANCHORED TARPULINS OR WHEN NOT IN USE FOR EXTENDED PERIODS DURING THE DAY OR WHEN RAIN EVENTS ARE ANTICIPATED.
3. A BARRIER FENCE IS TO BE PROVIDED AROUND THE CONSTRUCTION SITE CONSISTING OF A CONSTRUCTION FENCE TO RESTRICT AREAS OF DISTURBANCE.
- SPILL PREVENTION
1. THESE PRACTICES ARE USED TO REDUCE THE RISK ASSOCIATED WITH HAZARDOUS MATERIAL PRODUCTS THAT WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RE-SEALABLE.
2. ORIGINAL LABELS AND MATERIAL SAFETY DATA INFORMATION WILL BE RETAINED. THEY CONTAIN IMPORTANT PRODUCT INFORMATION. IF SURPLUS PRODUCTS MUST BE DISPOSED OF, MANUFACTURER OR LOCAL AND PROVINCIAL RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.
3. ALL ON-SITE VEHICLES TO BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE.
- PETROLEUM PRODUCTS
1. PETROLEUM PRODUCTS ARE TO BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS.
- FERTILIZERS
1. FERTILIZERS ARE TO BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZERS ARE TO BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZERS ARE TO BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
- PAINTS
1. ALL CONTAINERS ARE TO BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT IS NOT TO BE DISCHARGED TO THE STORM WATER SYSTEM, BUT PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS INSTRUCTIONS OR PROVINCIAL AND LOCAL REGULATIONS.
- CONCRETE TRUCKS
1. CONCRETE TRUCKS ARE NOT PERMITTED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE, UNLESS TO A DESIGNATED LOCATION SEPARATE FROM THE STORM WATER SEDIMENT BASIN.
- GOOD HOUSEKEEPING
- THE FOLLOWING HOUSEKEEPING PRACTICES ARE TO BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT:
1. AN EFFORT IS MADE TO STORE ONLY ENOUGH PRODUCT TO DO THE JOB.
2. ALL MATERIALS STORED ONSITE ARE TO BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
3. PRODUCTS ARE TO BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURERS LABEL.
4. SUBSTANCES ARE NOT TO BE MIXED WITH ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
5. WHENEVER POSSIBLE, ALL OF A PRODUCT ARE TO BE USED UP BEFORE DISPOSING OF THE CONTAINER.
6. MANUFACTURERS RECOMMENDATIONS FOR PROPER USE AND DISPOSAL ARE TO BE FOLLOWED.
7. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

- SPILL CONTROL PRACTICES
- IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES, THE FOLLOWING PRACTICES ARE TO BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:
1. MANUFACTURERS RECOMMENDED METHODS FOR SPILL CLEANUP ARE TO BE CLEARLY POSTED AND SITE PERSONNEL ARE TO BE MADE AWARE OF PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
2. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP ARE TO BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
3. ALL SPILLS ARE TO BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
4. THE SPILL AREA IS TO BE KEPT WELL VENTILATED AND PERSONNEL ARE TO WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
5. SPILLS OF HAZARDOUS OR TOXIC MATERIAL ARE TO BE REPORTED TO THE APPROPRIATE PROVINCIAL OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.
6. AFTER A SPILL, THE SPILL PREVENTION PLAN IS TO BE ADJUSTED TO INCLUDE MEASURES TO PREVENT ANY TYPE OF SPILL FROM RE-OCCURRING. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES ARE TO ALSO BE INCLUDED.
7. THE SITE SUPERINTENDENT IS TO BE RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS AND WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. THIS PERSON WILL DESIGNATE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BE RESPONSIBLE FOR THE PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL ARE TO BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE.

EROSION AND SEDIMENT CONTROL - GENERAL

1. THE CONTRACTOR IS FULLY RESPONSIBLE FOR CONTROLLING EROSION, SEDIMENT, DUST AND ALL POTENTIAL RELEASES FROM THE PROJECT SITE.
2. THE ENGINEER OR ENVIRONMENTAL MONITOR HAS THE RIGHT TO SHUT DOWN CONSTRUCTION ACTIVITIES IF EROSION AND SEDIMENT CONTROL MEASURES ARE NOT MEETING THEIR PURPOSE OR CAUSING POSSIBLE DETRIMENTAL EFFECTS TO PROTECTED RIPARIAN AREAS.
3. THE EROSION & SEDIMENT CONTROL WORKS SHOWN ON THIS PLAN ARE TO BE CONSIDERED THE ABSOLUTE MINIMUM. CONSTRUCTION ACTIVITIES MAY REQUIRE ADDITIONAL MEASURES TO PREVENT SEDIMENT FROM ENTERING MUNICIPAL SYSTEMS OR ENVIRONMENTALLY PROTECTED AREAS.
4. THE EROSION AND SEDIMENT CONTROL PLAN IS AN ON-GOING PROCESS. DETAILS SHOWN ON THESE PLANS ARE FOR EARTHWORKS AND GENERAL GUIDANCE ONLY. AS CONSTRUCTION PROCEEDS, VARIOUS EROSION AND SEDIMENT CONTROL TECHNIQUES WILL BE REQUIRED TO AVOID THE TRANSPORT OF SEDIMENTS.
5. EROSION AND SEDIMENT WORKS ARE TO BE INSTALLED WHERE POTENTIAL PROBLEMS CAN BE PREDICTED OR ARE LIKELY TO HAPPEN. DO NOT WAIT FOR AN EROSION AND SEDIMENT PROBLEM TO ARISE.
6. EQUIPMENT AND WORKMANSHIP IS TO BE OF BEST QUALITY. THE ENGINEER OR ENVIRONMENTAL MONITOR RESERVES THE RIGHT TO DISMISS ANY EQUIPMENT FROM THE SITE WHICH IS UNSUITABLE. (IE. HYDRAULIC LEAKS ETC.)
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING APPROPRIATE MEASURES TO KEEP SILTS AND OTHER DELETERIOUS MATERIAL FROM LEAVING THE SITE.
8. TO AVOID REACTIVE AND COSTLY APPLICATION OF SEDIMENT CONTROL PRACTICES, ENSURE THAT CONSTRUCTION ACTIVITIES ARE PHASED SO THAT EXPOSED SOILS ARE MINIMIZED. THE ONLY FEASIBLE WAY TO REDUCE SEDIMENT FROM WATERS IS TO SLOW THE WATERS MOVEMENT AND ALLOW THE SEDIMENTS TO DROP OUT OF SUSPENSION. EROSION AND SEDIMENT WORKS ARE TO BE PREVENTATIVE, AVOIDING SUSPENDED SEDIMENT IN WATER.
9. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE REMOVED WITHIN 30 DAYS OF FINAL SITE STABILIZATION OR AFTER THE TEMPORARY BEST MANAGEMENT PRACTICE (BMP) IS NO LONGER NEEDED. TRAPPED SEDIMENT SHOULD BE REMOVED OR STABILIZED ON SITE.
10. DISTURBED SOIL AREAS RESULTING FROM REMOVAL SHOULD BE PERMANENTLY STABILIZED.
11. THE ENVIRONMENTAL MONITOR WILL PERFORM ROUTINE OBSERVATIONS AND MAKE RECOMMENDATIONS FOR EROSION AND SEDIMENT CONTROL METHODS.
12. EROSION AND SEDIMENT CONTROLS WILL BE INSPECTED DURING AND AFTER ALL MAJOR STORM EVENTS. THE ENVIRONMENTAL MONITOR WILL MEET WITH THE CONTRACTOR PERIODICALLY AS REQUIRED TO REVIEW THE PROJECT SCHEDULE AND RELATED EROSION CONTROL MEASURES.
13. EXCAVATION WORKS THAT ARE TO OCCUR CLOSE TO THE RIPARIAN AREA SHOULD BE PLANNED TO COINCIDE WITH THE PROVINCIAL FISHERIES WINDOW FOR IN-STREAM WORKS. THE WINDOW IS JUNE 1st - SEPTEMBER 1st. NO CONSTRUCTION ACTIVITY OR LAND DISTURBANCE IS TO OCCUR WITHIN THE PROTECTED RIPARIAN ZONE WITHOUT PRIOR CONSULTATION AND WRITTEN DIRECTION FROM THE ENVIRONMENTAL MONITOR.
14. WHERE DISTURBED SOIL IS TO BE LEFT FOR A PERIOD OF AT LEAST 30 DAYS, HYDROSEEDING, TEMPORARY MULCHING OR COVERING THE EXPOSED SOIL WITH A TARPULIN IS RECOMMENDED TO REDUCE EROSION DURING RAIN FALL EVENTS. EXPOSED SLOPES MAY BE TRACKED USING A BULLDOZER OR OTHER APPROPRIATE MACHINERY TO ENCOURAGE VEGETATION AND DECREASE RUNOFF. IF STRAW OR HAY MULCH IS USED TO COVER EXPOSED SOIL, CONTRACTOR TO HAVE ONSITE AT ALL TIMES, A MINIMUM OF:
- 100m OF SILT FENCING
 - 200 STAKES

SPECIFICATIONS

SILT/SEDIMENT FENCE BARRIER

- THE CONTRACTOR SHALL SUPPLY, INSTALL AND MAINTAIN SILT FENCE BARRIERS IN ACCORDANCE WITH THE GUIDELINES OUTLINED ON THESE CONSTRUCTION DOCUMENTS AND IN AREAS GENERALLY INDICATED ON THE ENGINEER'S DRAWING AFTER CLEARING BUT PRIOR TO GRUBBING, STRIPPING AND EXCAVATION OPERATIONS.
- THE SILT FENCE FABRIC SHALL MEET THE FOLLOWING MINIMUM MATERIAL PROPERTIES:
1. FABRIC: WOVEN POLYPROPYLENE
2. TENSILE STRENGTH: 423 kN
3. ELONGATION: 15%
4. MULLEN BURST: 1723 kPa
5. PUNCTURE STRENGTH: 134 N
6. A.O.S. 600 microns
7. FLOW RATE: 20 L/sec/m²
8. U.V. RESISTANCE 80%
- THE STAKES SHALL BE OF SUFFICIENT STRENGTH TO SATISFY SILT FENCE BARRIER PERFORMANCE AND MAINTENANCE REQUIREMENTS. THE STAKES SHALL BE A MINIMUM OF 1.0m IN LENGTH, DRIVEN 300mm INTO THE GROUND, WITH A MAXIMUM SPACING OF 2.4m BETWEEN STAKES.
- THE CONTRACTOR SHALL INSTALL SILT FENCING IN ROAD DITCHES AND TOE OF SLOPES AS INDICATED ON THE ENGINEER'S DRAWINGS.
- MAINTENANCE
1. ALL SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER A RUNOFF EVENT AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. THE SILT FENCE BARRIERS SHALL BE MAINTAINED IN PLACE, WITHOUT GAPS, AND WITHOUT UNDERMINING, SO AS TO PREVENT SEDIMENT PASSAGE THROUGH OR UNDER THE BARRIER.
3. ACCUMULATED SEDIMENT SHALL BE REMOVED AT THE DIRECTION OF THE PROJECT BIOLOGIST OR ENGINEER.
4. SILT FENCE BARRIERS SHALL BE REMOVED WHEN, IN THE OPINION OF THE BIOLOGIST OR ENGINEER, THE MEASURE IS NO LONGER REQUIRED.
5. SILT FENCE BARRIERS SHALL BE REMOVED IN A MANNER THAT:
- AVOIDS ENTRY OF EQUIPMENT, OTHER THAN HAND HELD EQUIPMENT, TO ANY WATER COURSE; AND
 - PREVENTS RELEASE OF SEDIMENT AND DEBRIS TO ANY WATER COURSE.

CLEARING AND GRUBBING

DEFINITIONS

1. CLEARING CONSISTS OF CUTTING OFF TREES AND BRUSH VEGETATIVE GROWTH TO NOT MORE THAN SPECIFIED HEIGHT ABOVE GROUND AND DISPOSING OF FELLEED TREES, PREVIOUSLY UPROOTED TREES AND STUMPS, AND SURFACE DEBRIS.
2. CLOSE CUT CLEARING CONSISTS OF CUTTING OFF STANDING TREES, BRUSH, SCRUB, ROOTS, STUMPS AND EMBEDDED LOGS, REMOVING AT, OR CLOSE TO, EXISTING GRADE AND DISPOSING OF FALLEN TIMBER AND SURFACE DEBRIS.
3. CLEARING ISOLATED TREES CONSISTS OF CUTTING OFF TO NOT MORE THAN SPECIFIED HEIGHT ABOVE GROUND OF DESIGNATED TREES, AND DISPOSING OF FELLEED TREES AND DEBRIS.
4. UNDERBRUSH CLEARING CONSISTS OF REMOVAL FROM TREED AREAS OF UNDERGROWTH, DEADWOOD, AND TREES SMALLER THAN 50mm TRUNK DIAMETER AND DISPOSING OF FALLEN TIMBER AND SURFACE DEBRIS.
5. GRUBBING CONSISTS OF EXCAVATION AND DISPOSAL OF STUMPS AND ROOTS, BOULDERS AND ROCK FRAGMENTS TO NOT LESS THAN SPECIFIED DEPTH BELOW EXISTING GROUND SURFACE.
- PROTECTION
1. PREVENT DAMAGE TO TREES, HABITAT, NATURAL FEATURES, BENCH MARKS, WATER COURSES, AND ROOT SYSTEMS OF TREES WHICH ARE TO REMAIN.
2. REPAIR DAMAGED ITEMS TO APPROVAL OF BIOLOGIST / ENGINEER
- EROSION & SEDIMENT CONTROL
1. PROVIDE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES AND WALKWAYS, ACCORDING TO SEDIMENT AND EROSION CONTROL PLAN SPECIFIC TO SITE, THAT COMPLIES WITH EPA 832/R-92-005 OR REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION, WHICHEVER IS MORE STRINGENT.
2. INSPECT, REPAIR, AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION UNTIL PERMANENT MEASURES HAVE BEEN ESTABLISHED.
- 2.1. REMOVE EROSION AND SEDIMENTATION CONTROLS AND RESTORE AND STABILIZE AREAS DISTURBED DURING REMOVAL.
- PREPARATION
1. SURVEYORS TO STAKEOUT USING LABELLED COLOUR RIBBON AND STAKES; TOES (CUT / FILL), CREEKSIDE EDGE OF FOOTINGS.
2. INSPECT SITE AND VERIFY WITH BOTH BIOLOGIST / ENGINEER ITEMS DESIGNATED TO REMAIN AND LIMITS OF CONSTRUCTION.
3. INSTALL CONSTRUCTION FENCING AND SIGNAGE DELINEATING LIMITS OF CONSTRUCTION.
4. RECEIVE WRITTEN DIRECTION FROM PROJECT BIOLOGIST FOR WINDOW WHEN GRUBBING MAY COMMENCE.
- 4.1. FULL EROSION AND SEDIMENT CONTROL PROCEDURES ARE NOT EXPECTED FOR CLEARING ACTIVITIES.
5. RECEIVE WRITTEN DIRECTION FROM PROJECT BIOLOGIST FOR WINDOW WHEN GRUBBING MAY COMMENCE.
- 5.1. EROSION AND SEDIMENT CONTROL PROCEDURES MUST BE INSTALLED AND INSPECTED PRIOR TO GRUBBING ACTIVITIES COMMENCING.

CLEARING

1. CLEARING INCLUDES FELLING, TRIMMING, AND CUTTING OF TREES INTO SECTIONS AND SATISFACTORY DISPOSAL OF TREES AND OTHER VEGETATION DESIGNATED FOR REMOVAL, INCLUDING DOWNED TIMBER, SNAGS, BRUSH, AND RUBBISH OCCURRING WITHIN CLEARED AREAS.
2. CLEAR AS DIRECTED BY CONSULTANT, BY CUTTING AT HEIGHT OF NOT MORE THAN 300mm ABOVE GROUND. IN AREAS TO BE SUBSEQUENTLY GRUBBED, HEIGHT OF STUMPS LEFT FROM CLEARING OPERATIONS TO BE NOT MORE THAN 1.0m ABOVE GROUND SURFACE.
3. CUT OFF BRANCHES AND CUT DOWN TREES OVERHANGING AREA CLEARED AS DIRECTED BY CONSULTANT.
4. CUT OFF UNSOUND BRANCHES ON TREES DESIGNATED TO REMAIN AS DIRECTED BY CONSULTANT.
5. REMOVAL OF WOODY DEBRIS FROM THE CREEK ONLY PERMITTED UNDER THE DIRECT, FULL TIME SUPERVISION OF THE BIOLOGIST.
- CLOSE CUT CLEARING
1. CLOSE CUT CLEARING TO GROUND LEVEL TO WITHIN 100mm OF GROUND SURFACE.
2. CUT OFF BRANCHES OVERHANGING AREA CLEARED.
3. CUT OFF UNSOUND BRANCHES ON TREES DESIGNATED TO REMAIN.
- ISOLATED TREES
1. CUT OFF ISOLATED AT HEIGHT OF NOT MORE THAN 300mm ABOVE GROUND SURFACE.
2. GRUB OUT ISOLATED TREE STUMPS.
3. TRIM TREES DESIGNATED TO BE LEFT STANDING WITHIN CLEARED AREAS OF DEAD BRANCHES.

UNDERBRUSH CLEARING

1. CLEAR UNDERBRUSH FROM AREAS AS INDICATED AT GROUND LEVEL.
- GRUBBING
1. REMOVE AND DISPOSE OF ROOTS LARGER THAN 75mm IN DIAMETER, MATTED ROOTS, AND DESIGNATED STUMPS FROM INDICATED GRUBBING AREAS.
2. GRUB OUT STUMPS AND ROOTS TO NOT LESS THAN 200mm BELOW GROUND SURFACE.
3. GRUB OUT VISIBLE ROCK FRAGMENTS AND BOULDERS, GREATER THAN 300mm IN GREATEST DIMENSION, BUT LESS THAN 0.15m³.
4. FILL DEPRESSIONS MADE BY GRUBBING WITH SUITABLE MATERIAL AND TO MAKE NEW SURFACE CONFORM WITH EXISTING ADJACENT SURFACE OF GROUND.
- REMOVAL & DISPOSAL
1. REMOVE CLEARED AND GRUBBED MATERIALS TO DISPOSAL AREA.
- FINISHED SURFACE
1. LEAVE GROUND SURFACE IN CONDITION SUITABLE FOR IMMEDIATE GRADING OPERATIONS TO APPROVAL OF CONSULTANT.

ROUGH GRADING

PROTECTION

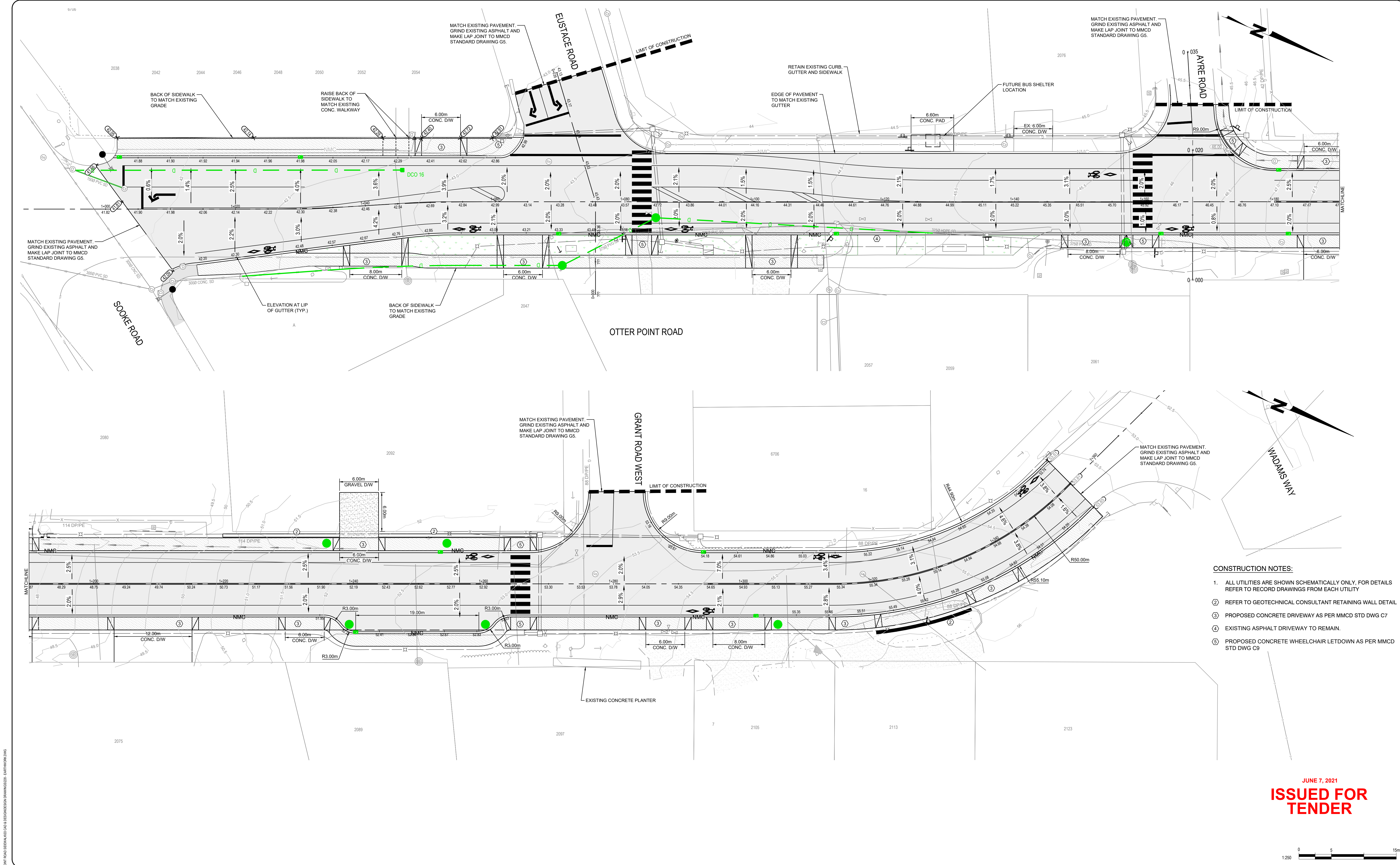
1. PROTECT CONSTRUCTION FENCING, TREES, EROSION AND SEDIMENT CONTROL FEATURES, NATURAL FEATURES AND BENCH MARKS WHICH ARE TO REMAIN AS DIRECTED BY CONSULTANT. IF DAMAGED, RESTORE TO ORIGINAL OR BETTER CONDITION UNLESS DIRECTED OTHERWISE.
2. MAINTAIN ACCESS ROADS TO PREVENT ACCUMULATION OF CONSTRUCTION RELATED DEBRIS ON ROADS.
- MATERIALS
1. FILL MATERIALS IN ACCORDANCE WITH MMCD SPECIFICATIONS AND CONSTRUCTION DOCUMENTS.
- STRIPPING OF TOPSOIL
1. DO NOT HANDLE TOPSOIL WHILE IN WET OR FROZEN CONDITION OR IN ANY MANNER IN WHICH SOIL STRUCTURE IS ADVERSELY AFFECTED AS DETERMINED BY CONSULTANT.
2. COMMENCE TOPSOIL STRIPPING OF AREAS AS INDICATED AFTER AREA HAS BEEN CLEARED OF BRUSH WEEDS AND GRASSES AND REMOVED FROM SITE.
3. STRIP TOPSOIL TO DEPTHS AS INDICATED.
4. STOCKPILE TOPSOIL AWAY FROM PROJECT SITE TO PREVENT MIGRATION OF FINES TO WATERCOURSE.
- GRADING
1. ROUGH GRADE TO LEVELS, PROFILES, AND CONTOURS ALLOWING FOR SURFACE TREATMENT AS INDICATED ON CONSTRUCTION DOCUMENTS.

LEGEND

	PROPOSED	EXISTING
Sanitary Sewer	— S 200	— S 200
Water Main	— W 150	— W 150
Storm Drain	— D 200	— D 200
Gas Main	— G	— G
Hydro/telus/cable	— H/T/C	— H/T/C
Storm Drain Manhole	● DMH	○
Catchbasin	■	□
Storm Drain Cleanout	+	
Sanitary Sewer Manhole	● SMH	○
Sanitary Sewer Cleanout	+	
Water Valve	+	+
Water Meter	+	+
Flush Valve	+	+
Air Release Valve	+	+
Fire Hydrant	+	+
Ornamental St Light	✱	✱
Cobra Head St Light	✱●	✱○
Non-mountable Curb	— NMC	— NMC
Reverse Non-mountable Curb	— RNMC	— RNMC
Mountable Curb	— MC	— MC
Invert Gutter	— IG	— IG
Asphalt Water Control	— WC	— WC

JUNE 7, 2021
**ISSUED FOR
TENDER**

No.	ISSUED DESCRIPTION	DATE	SIGN	No.	REVISIONS DESCRIPTION	DATE	SIGN
1	ISSUED FOR DISCUSSION	2020-10-09	KS				
2	ISSUED FOR 85% DESIGN PACKAGE	2020-12-02	KS				
3	ISSUED FOR TENDER	2021-06-07	FC				



- CONSTRUCTION NOTES:**
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 2. REFER TO GEOTECHNICAL CONSULTANT RETAINING WALL DETAIL
 3. PROPOSED CONCRETE DRIVEWAY AS PER MMCD STD DWG C7
 4. EXISTING ASPHALT DRIVEWAY TO REMAIN.
 5. PROPOSED CONCRETE WHEELCHAIR LETDOWN AS PER MMCD STD DWG C9

ISSUED FOR TENDER



ON POINT - JUN 16, 2021 3:32 PM - I:\228 OTTER POINT ROAD DESIGN\03 CAD & SECOND\SSD\03 DRAWING\03221 - GRADING.DWG



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TECHNOLOGIST: FC
REVIEWED: EN
ENGINEER: ME

SEAL

DISTRICT OF SOOKE

**OTTER POINT ROAD
ACTIVE TRANSPORTATION
PROJECT
GRADING PLAN**

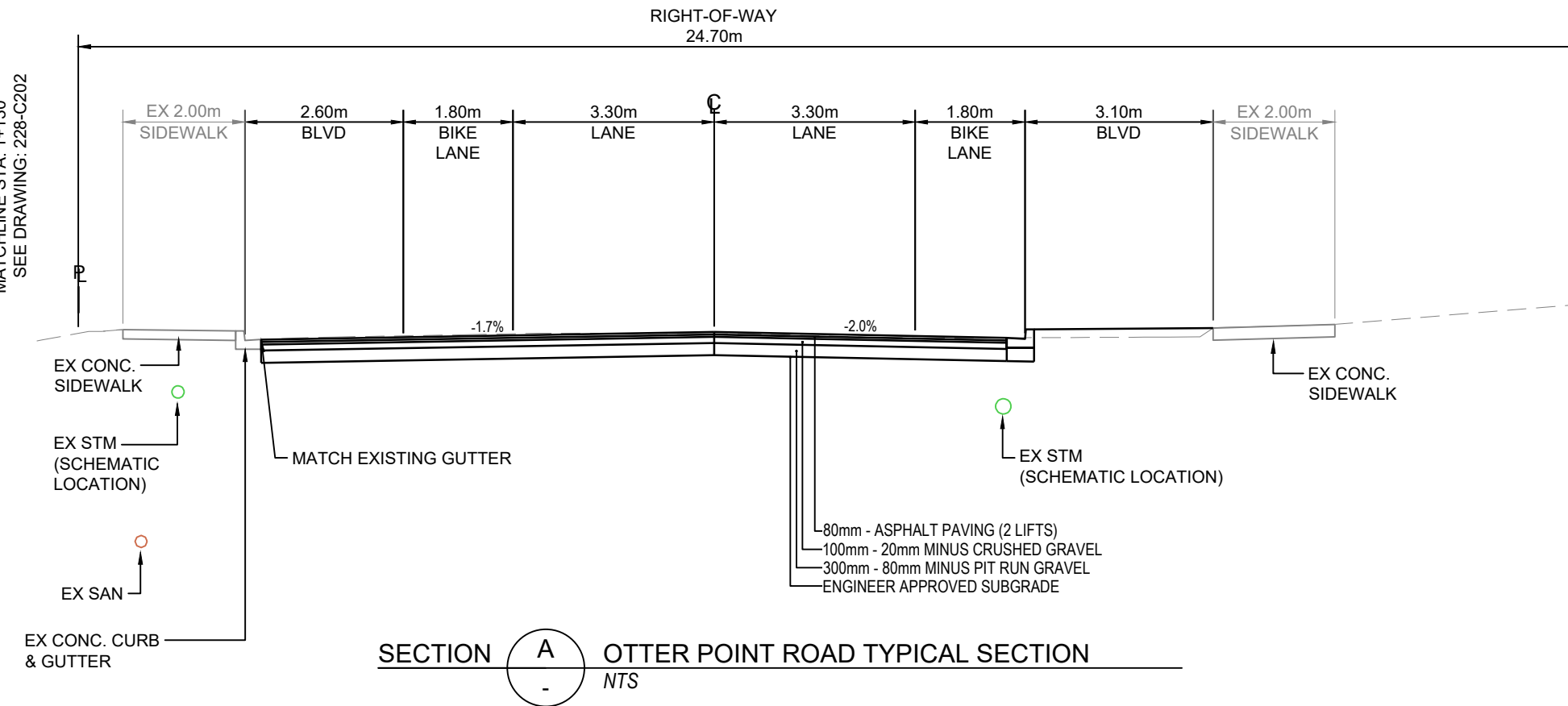
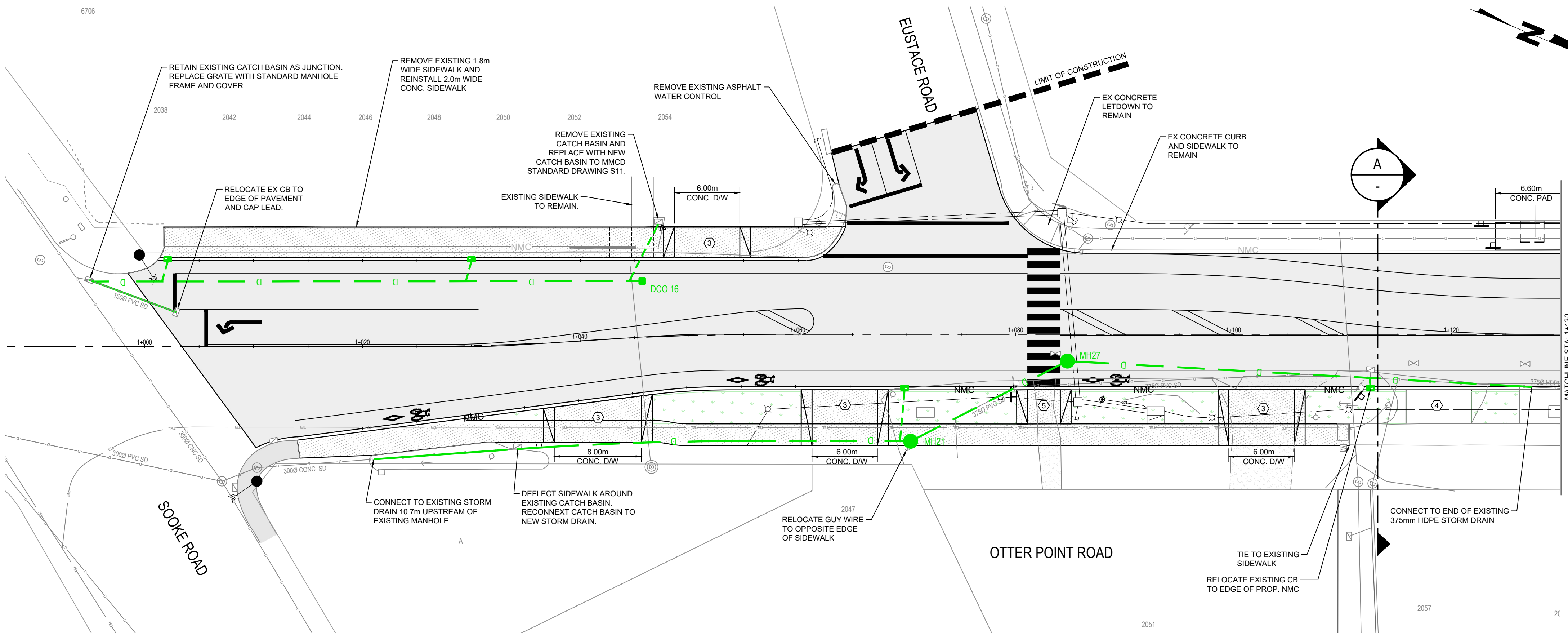
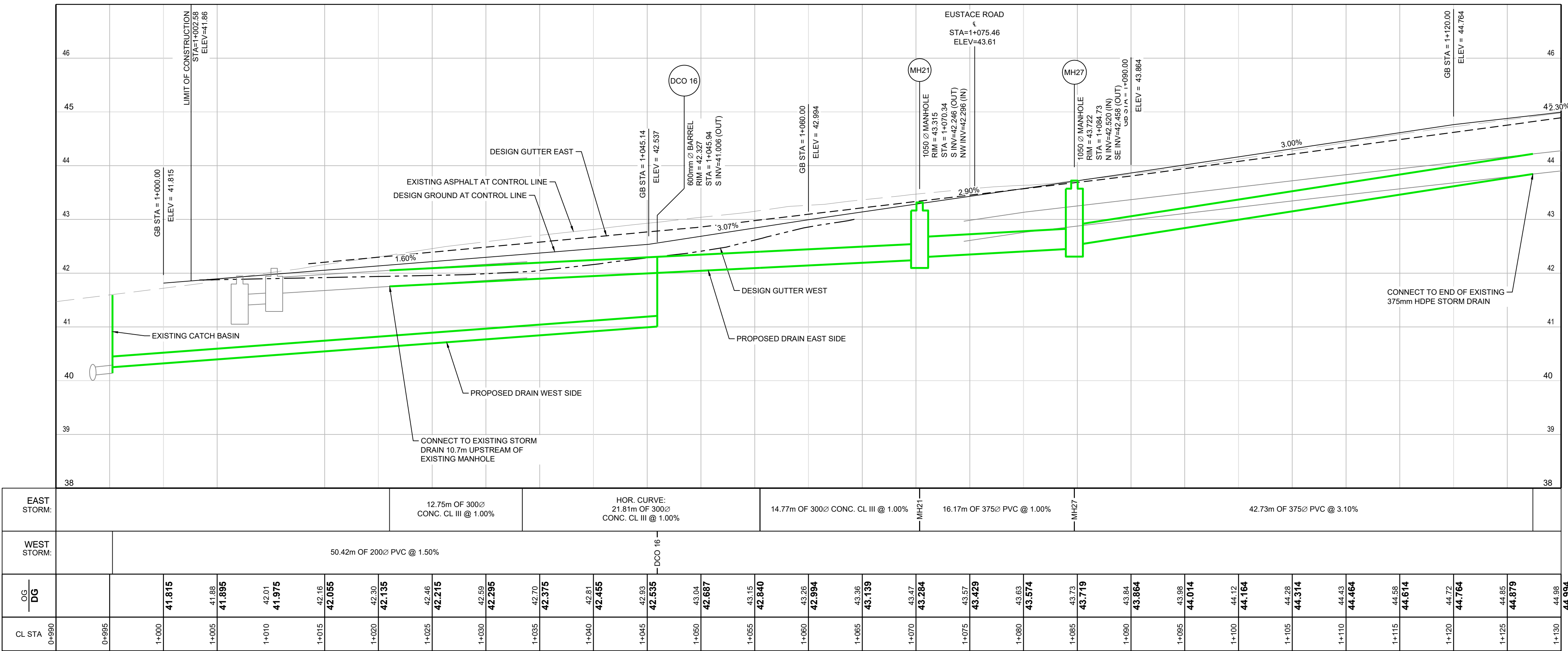
ON POINT PROJECT No.
228-03
GOVERNING AUTHORITY FILE No.
5330-20
SHEET 03 OF 13
REV: ---
ON POINT DRAWING No.
228-C200

LEGEND

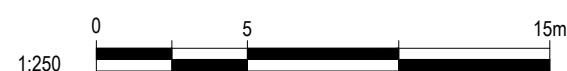
	PROPOSED	EXISTING
Sanitary Sewer	S 200	S 200
Water Main	W 150	W 150
Storm Drain	D 200	D 200
Gas Main	G	G
Hydro/tel/cable	H/T/C	H/T/C
Storm Drain Manhole	DMH	
Catchbasin		
Storm Drain Cleanout		
Sanitary Sewer Manhole	SMH	
Sanitary Sewer Cleanout		
Water Valve		
Water Meter		
Flush Valve		
Air Release Valve		
Fire Hydrant		
Ornamental St Light	*	*
Cobra Head St Light	*O	*O
Non-mountable Curb	NMC	NMC
Reverse Non-mountable Curb	RNMC	RNMC
Mountable Curb	MC	MC
Invert Gutter	IG	IG
Edge of Pavement	EOP	EOP
Asphalt Water Control	WC	WC
Retaining Wall		

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- EXISTING ASPHALT DRIVEWAY TO REMAIN.
- PROPOSED CONCRETE WHEELCHAIR LETDOWN AS PER MMCD STD DWG C9



JUNE 7, 2021
ISSUED FOR TENDER



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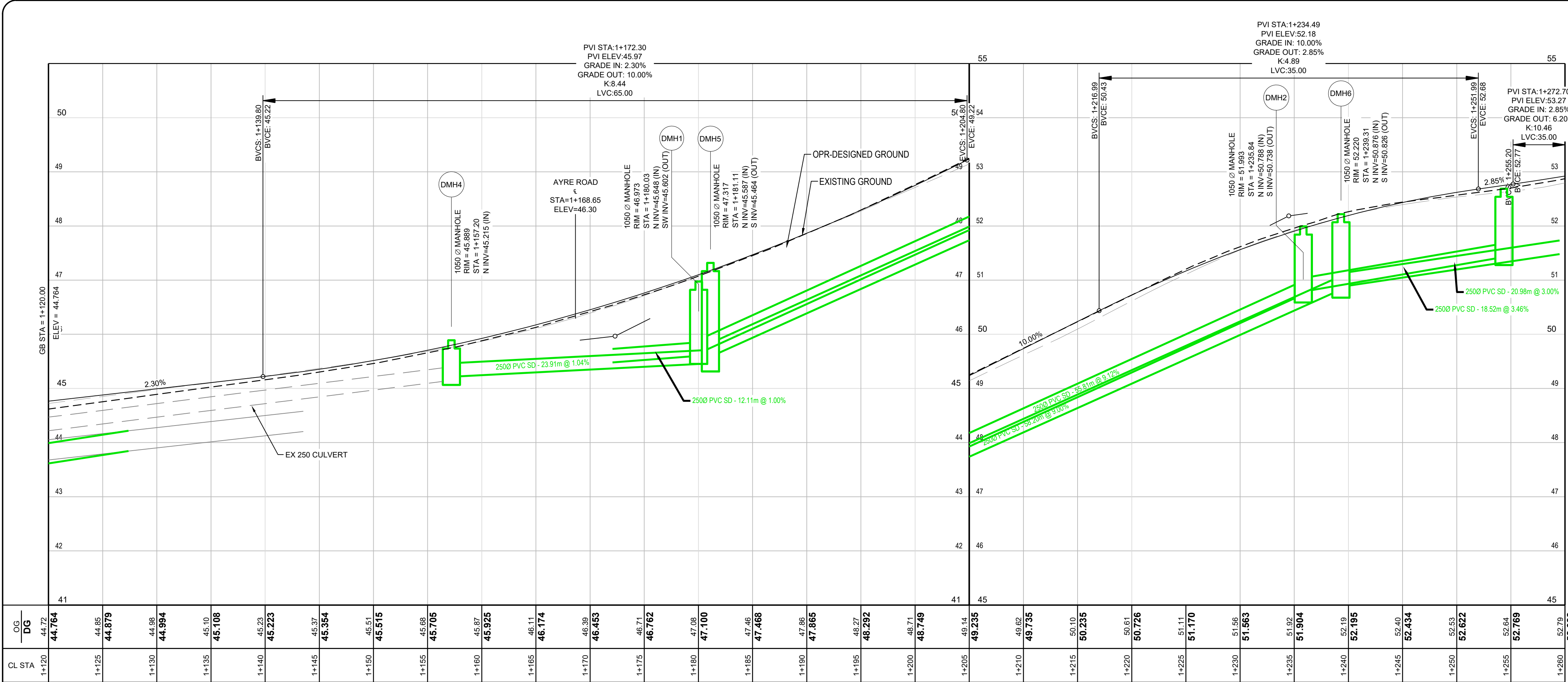
TECHNOLOGIST: FC
REVIEWED: EN
ENGINEER: ME

SEAL

DISTRICT OF SOOKE

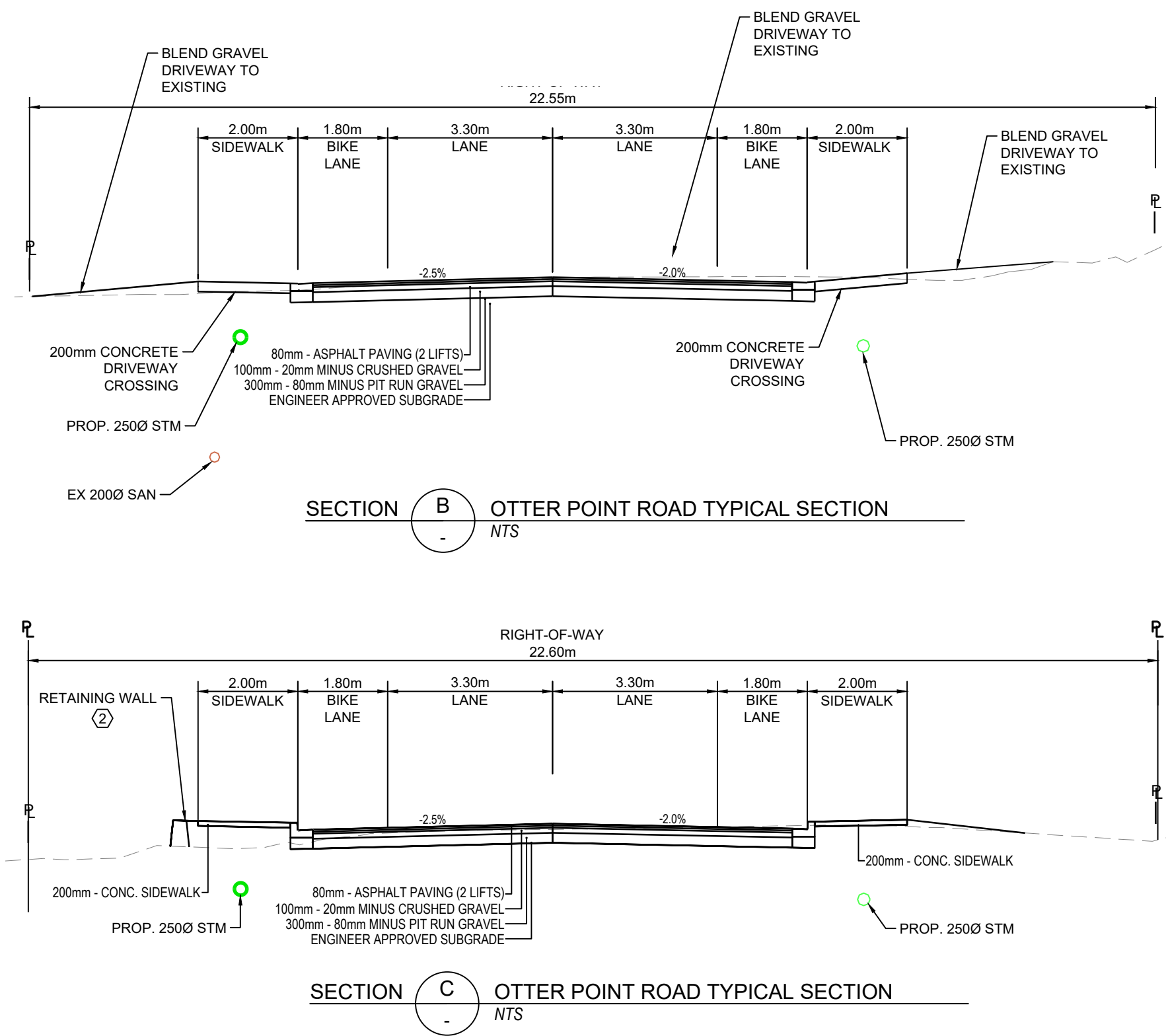
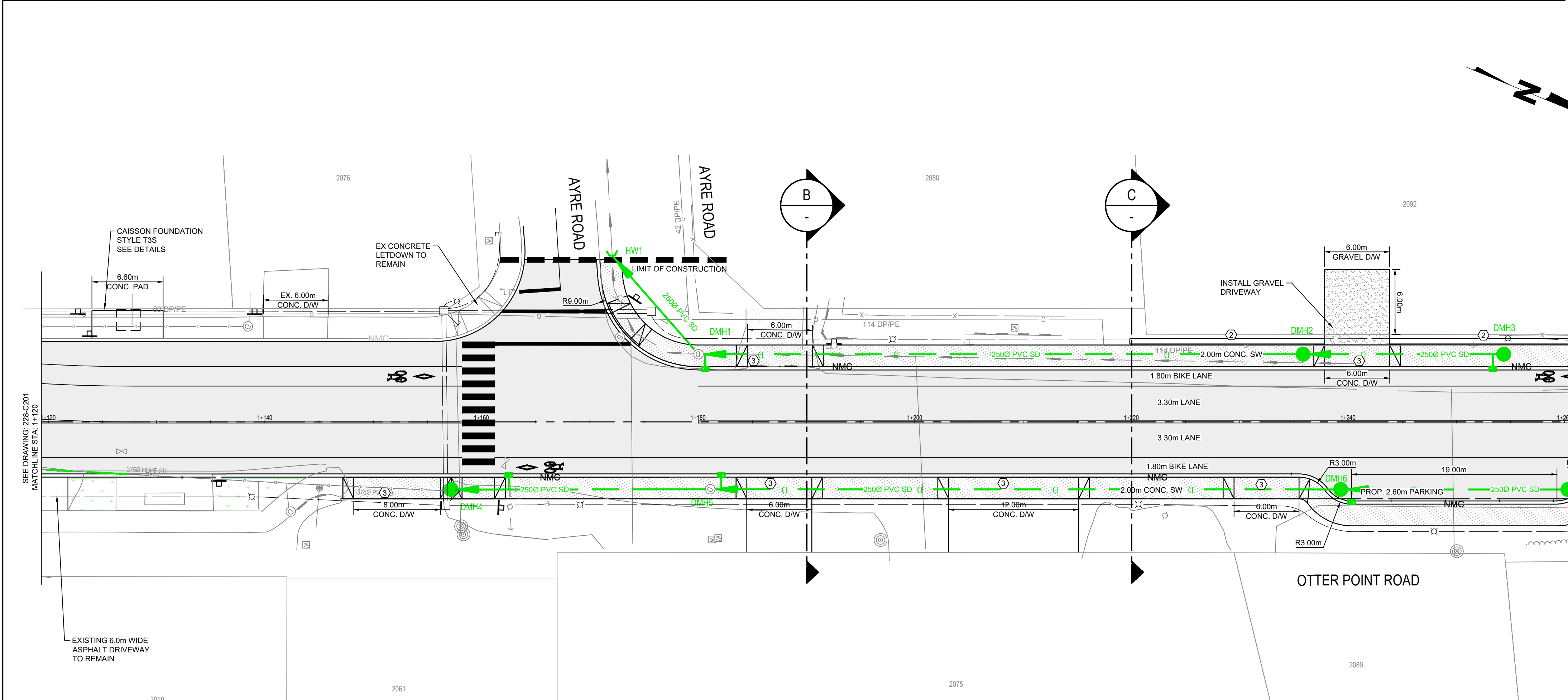
**OTTER POINT ROAD
ACTIVE TRANSPORTATION
PROJECT
PLAN & PROFILE**
STA: 1+000 TO 1+120

ON POINT PROJECT No.
228-03
GOVERNING AUTHORITY FILE No.
5330-20
SHEET 04 OF 13
REV: ---
ON POINT DRAWING No.
228-C201



LEGEND	
PROPOSED	EXISTING
Sanitary Sewer	S 200
Water Main	W 150
Storm Drain	D 200
Gas Main	G
Hydro/tel/cable	H/T/C
Storm Drain Manhole	DMH
Catchbasin	CB
Storm Drain Cleanout	SDC
Sanitary Sewer Manhole	SMH
Sanitary Sewer Cleanout	SSC
Water Valve	WV
Water Meter	WM
Flush Valve	FLV
Air Release Valve	ARV
Fire Hydrant	FH
Ornamental St Light	OSL
Cobra Head St Light	CHSL
Non-mountable Curb	NMC
Reverse Non-mountable Curb	RNMC
Mountable Curb	MC
Invert Gutter	IG
Edge of Pavement	EOP
Asphalt Water Control	WC
Retaining Wall	RET

- CONSTRUCTION NOTES:
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 - PROPOSED CONCRETE DRIVEWAY AS PER MMCD STD DWG C7



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3	ISSUED FOR TENDER	2021-06-07	FC				

TECHNOLOGIST: FC
REVIEWED: EN
ENGINEER: ME

SEAL

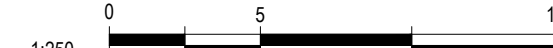
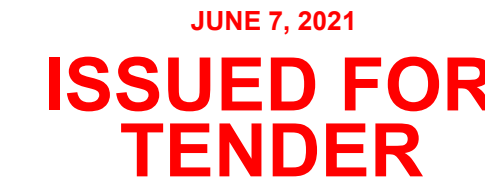
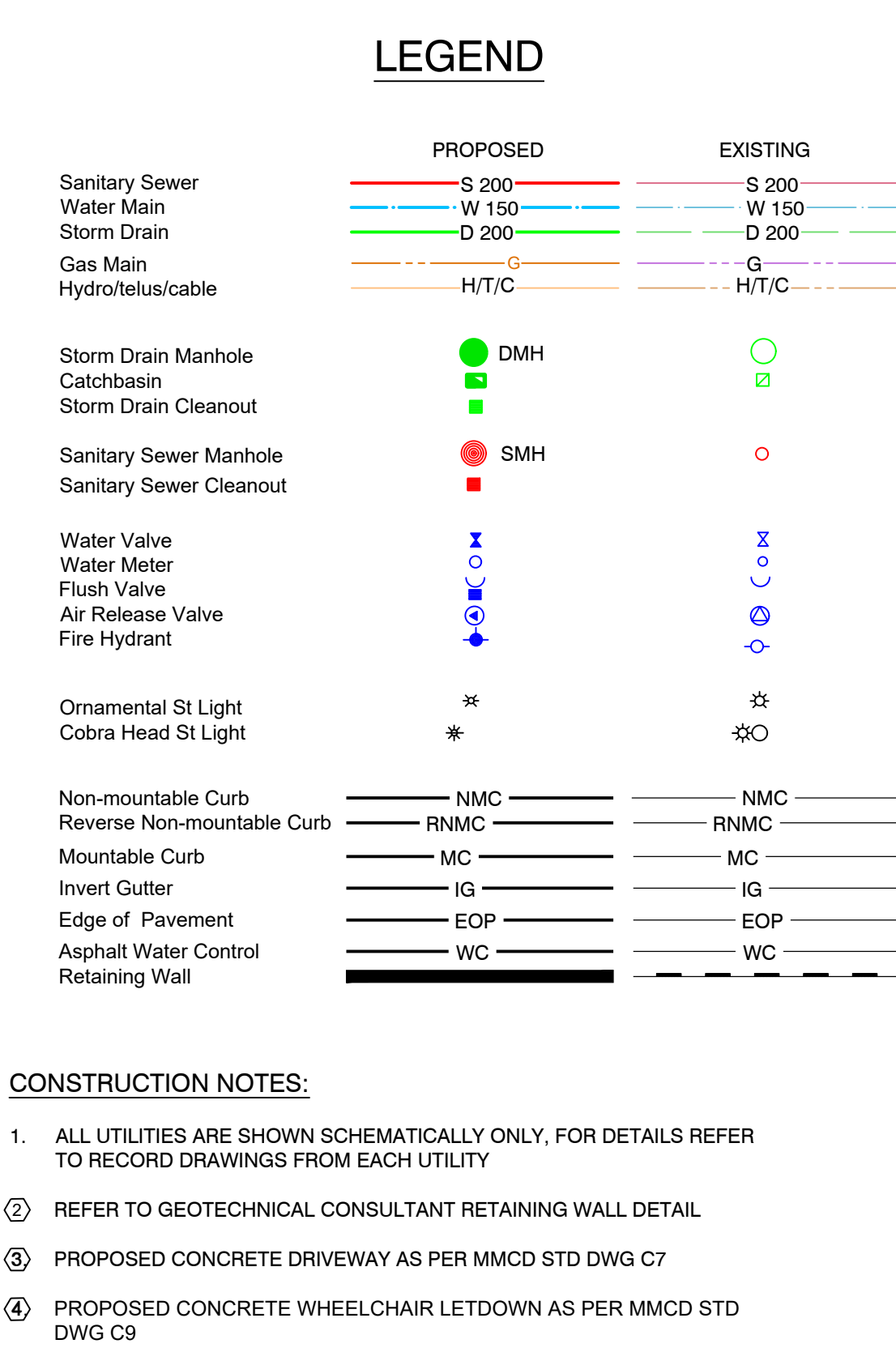
DISTRICT OF SOOKE

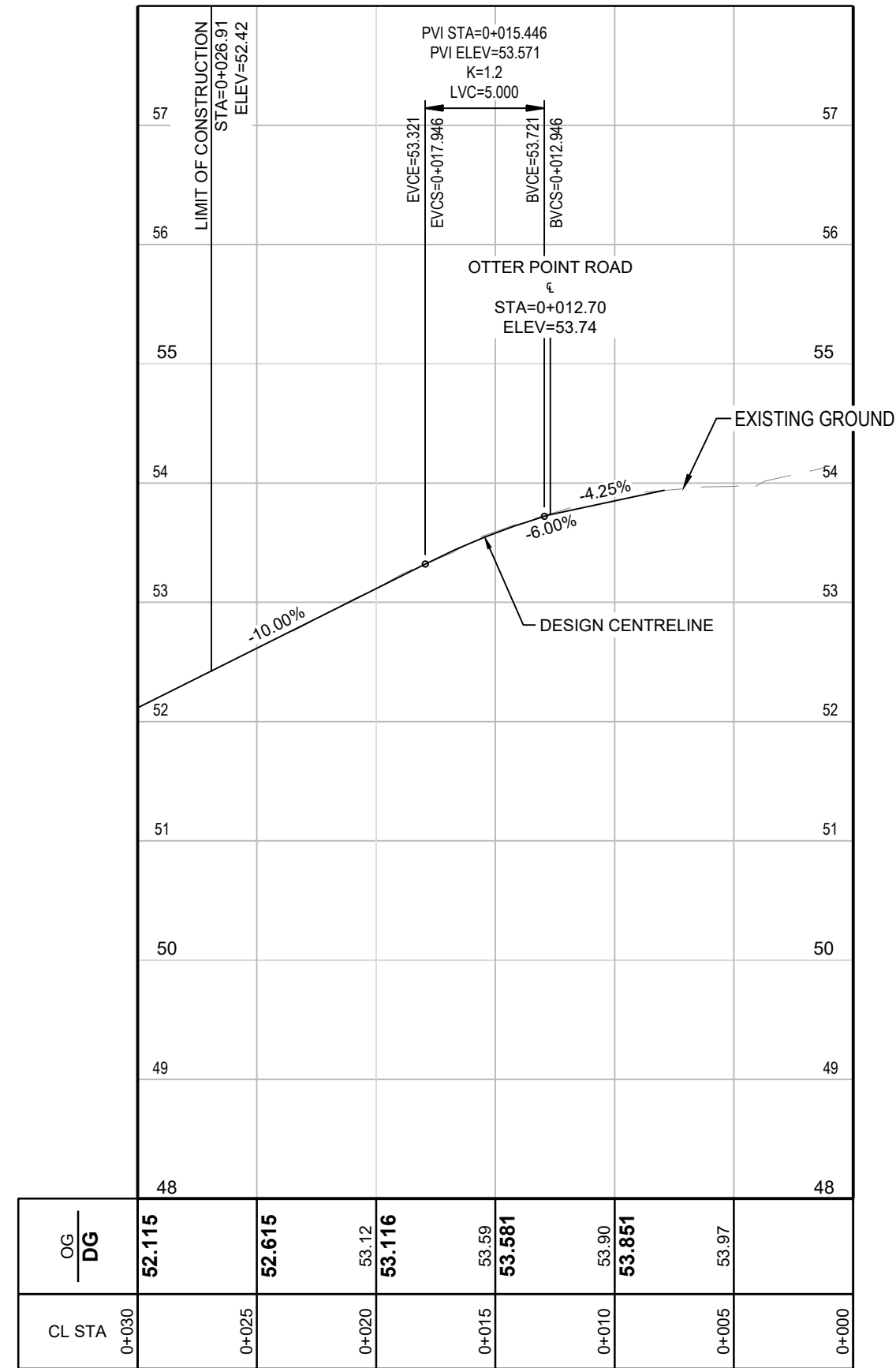
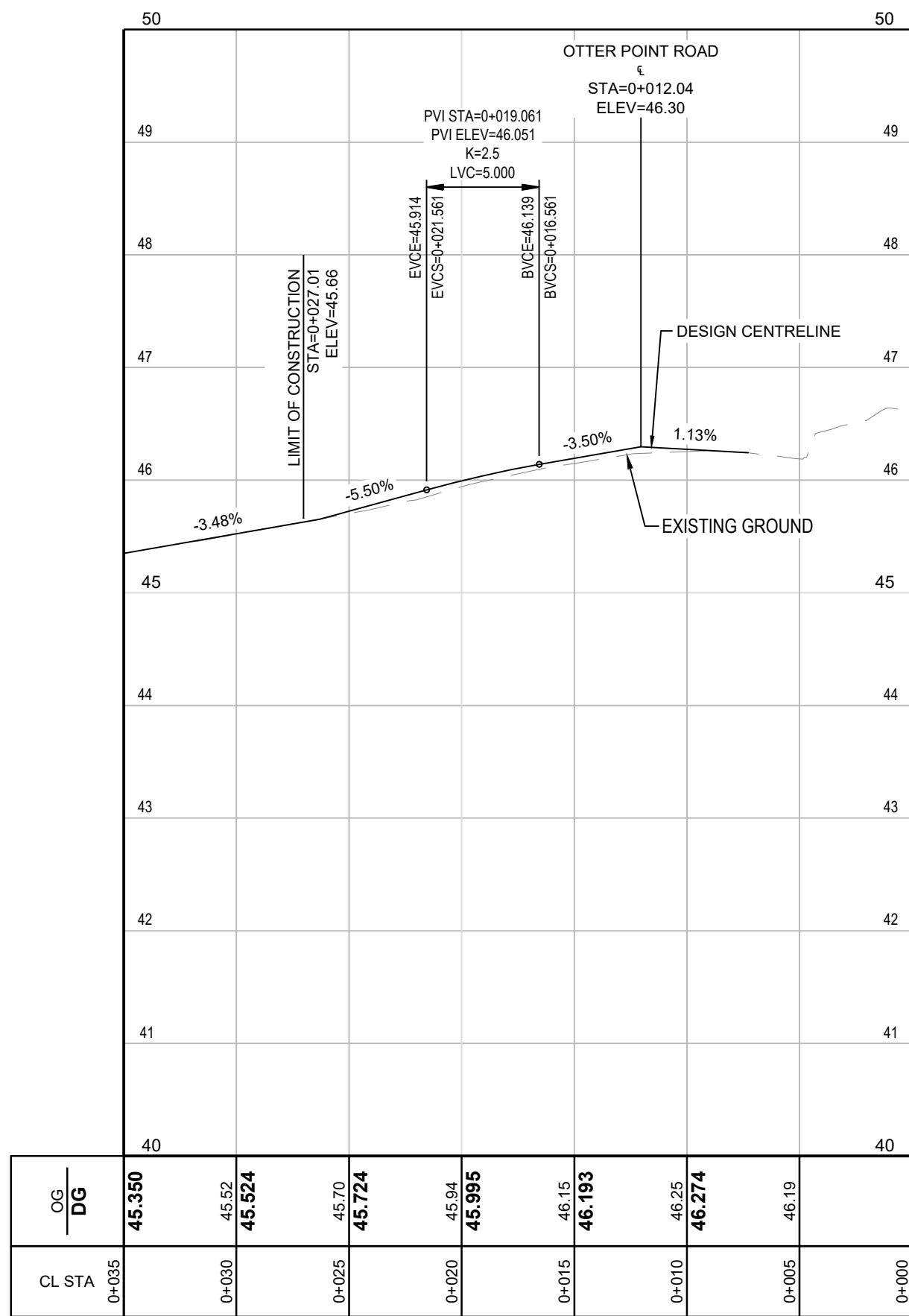
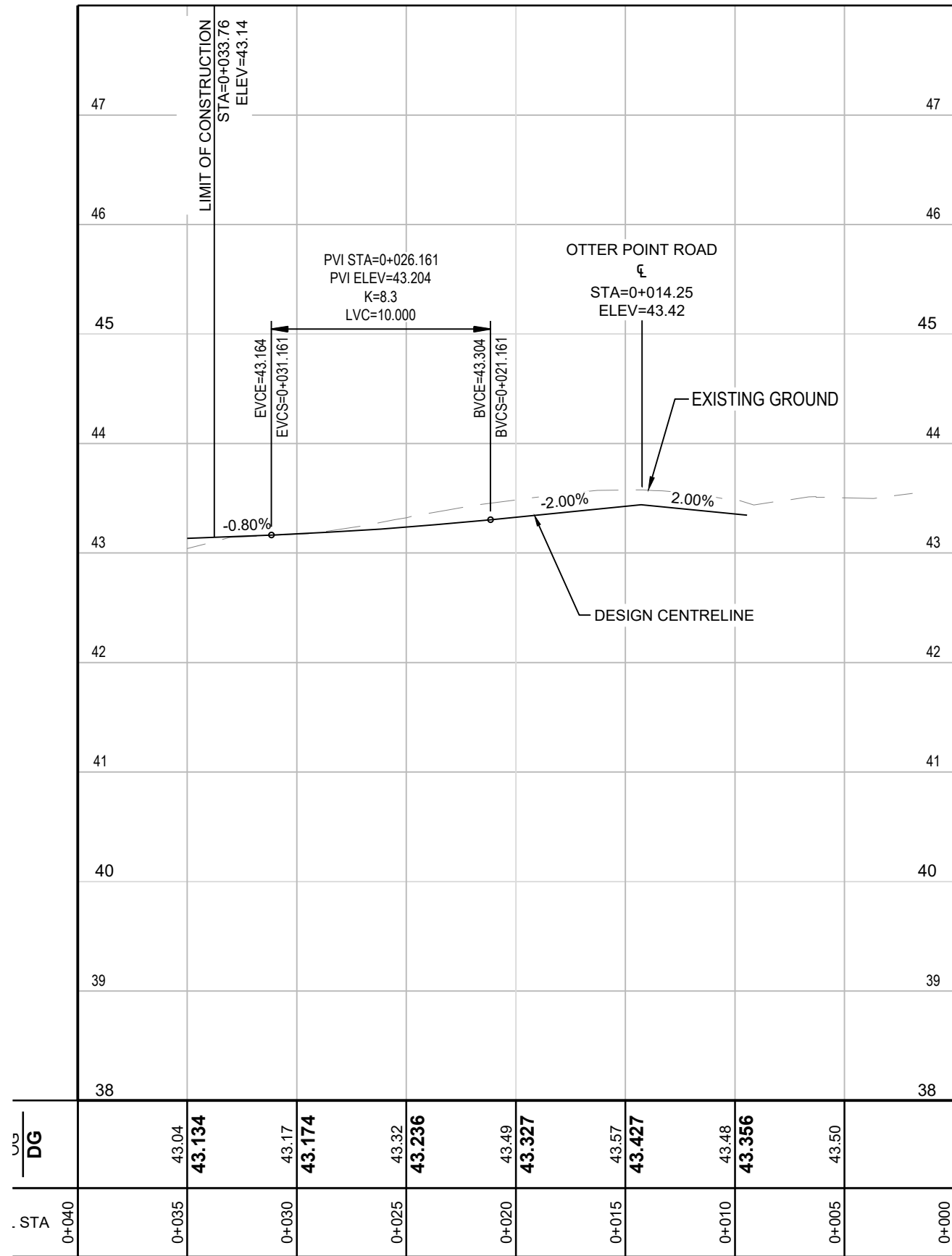
**OTTER POINT ROAD
ACTIVE TRANSPORTATION
PROJECT**

PLAN & PROFILE

STA: 1+120 TO 1+260

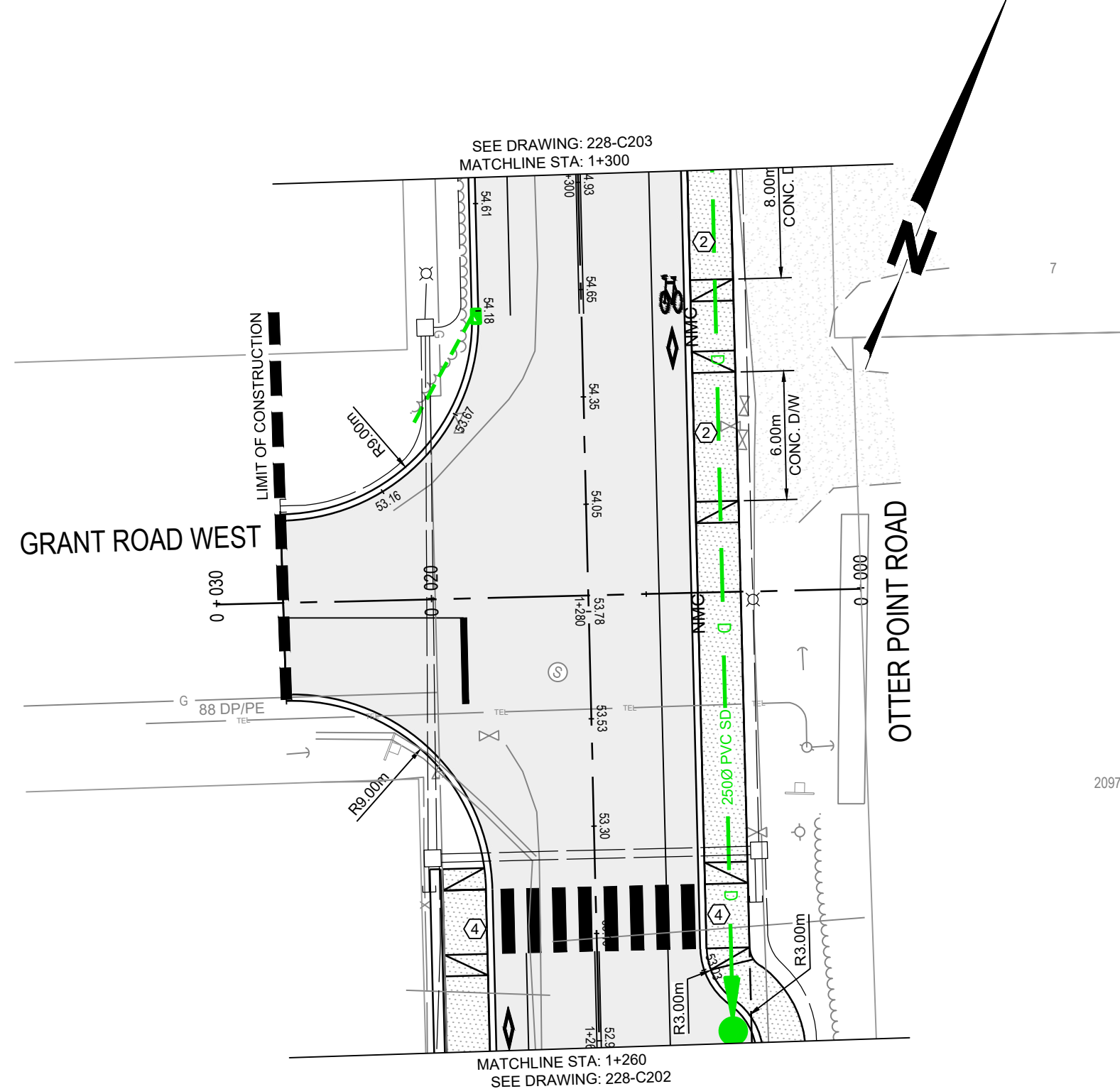
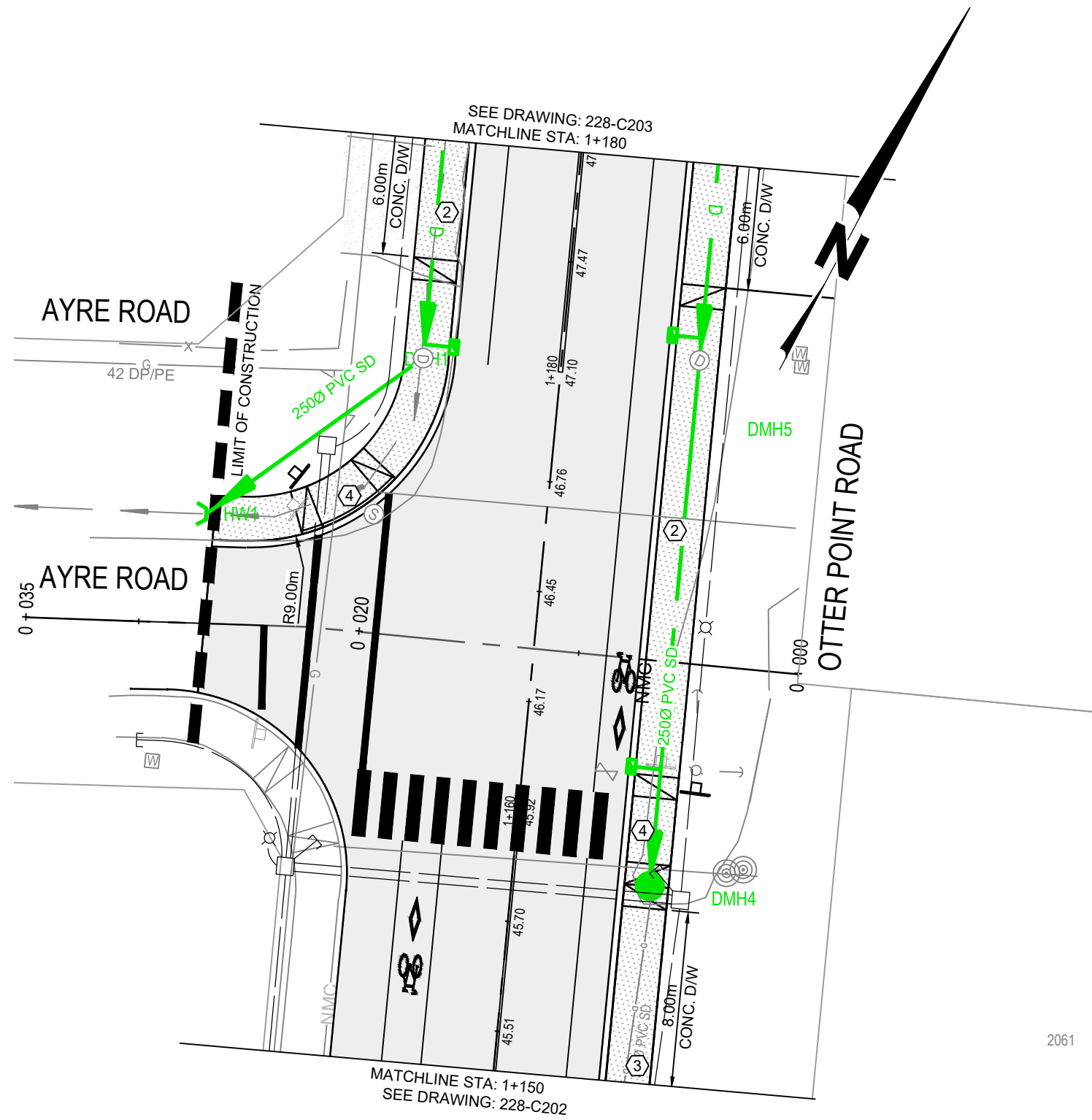
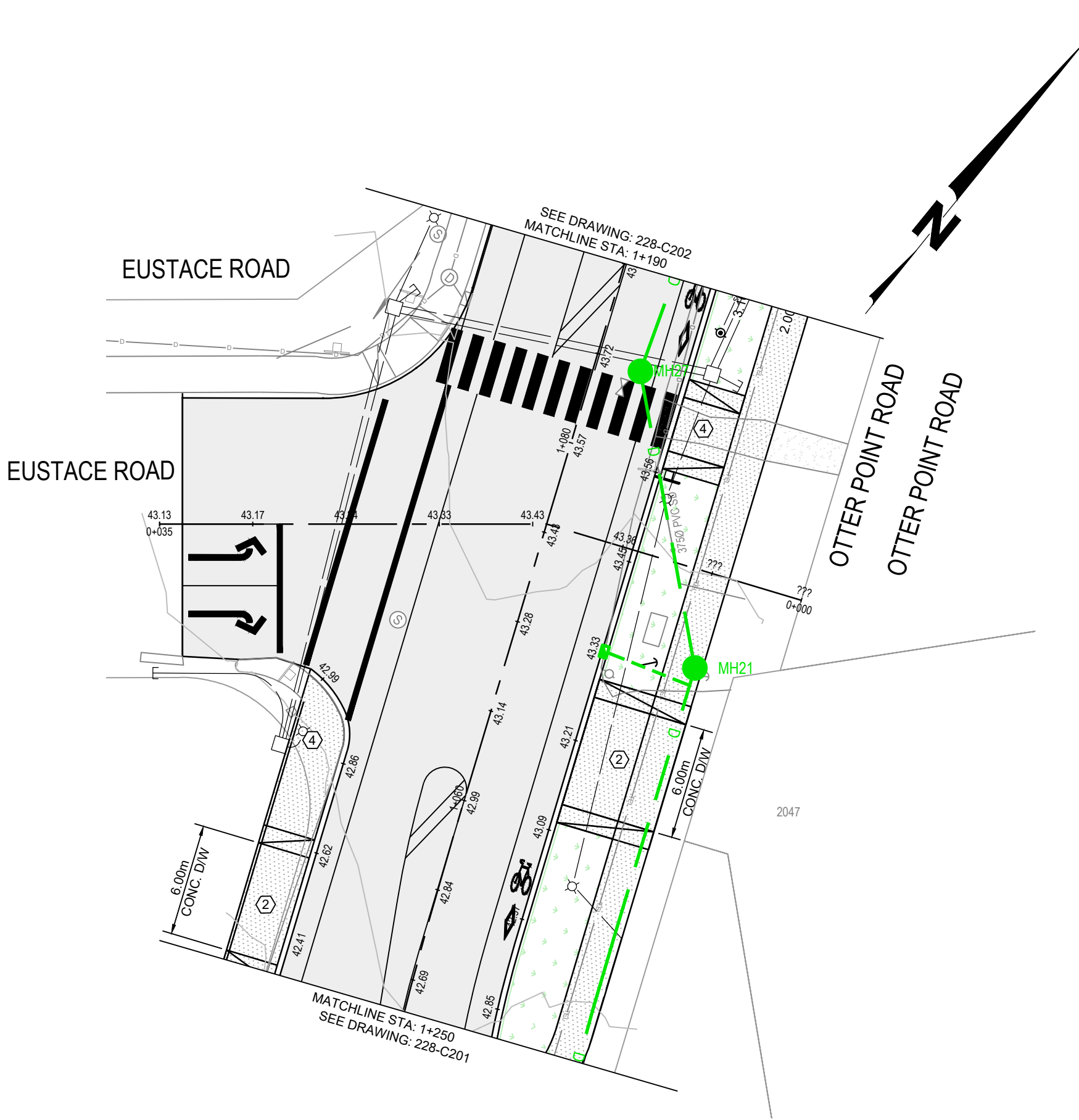
ON POINT PROJECT No.
228-03
GOVERNING AUTHORITY FILE No.
5330-20
SHEET 05 OF 13
REV: ---
ON POINT DRAWING No.
228-C202

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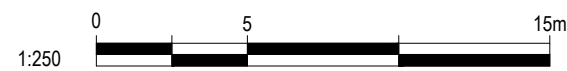


LEGEND	
PROPOSED	EXISTING
Sanitary Sewer	S 200
Water Main	W 150
Storm Drain	D 200
Gas Main	G
Hydro/telus/cable	H/T/C
Storm Drain Manhole	DMH
Catchbasin	
Storm Drain Cleanout	
Sanitary Sewer Manhole	SMH
Sanitary Sewer Cleanout	
Water Valve	
Water Meter	
Flush Valve	
Air Release Valve	
Fire Hydrant	
Ornamental St Light	*
Cobra Head St Light	*O
Non-mountable Curb	NMC
Reverse Non-mountable Curb	RNMC
Mountable Curb	MC
Invert Gutter	IG
Edge of Pavement	EOP
Asphalt Water Control	WC
Retaining Wall	

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 - EXISTING ASPHALT DRIVEWAY TO REMAIN.
 - PROPOSED CONCRETE WHEELCHAIR LETDOWN AS PER MMCD STD DWG C9



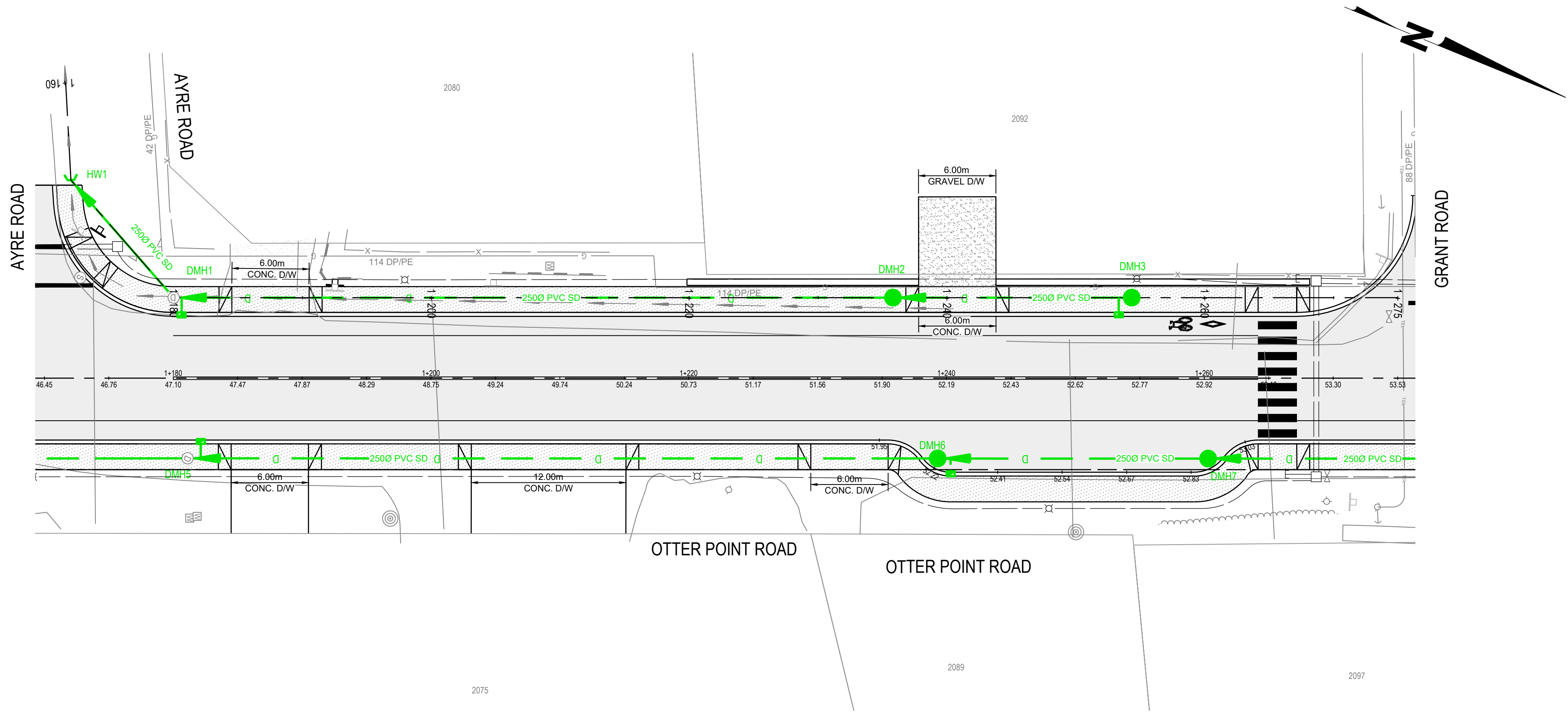
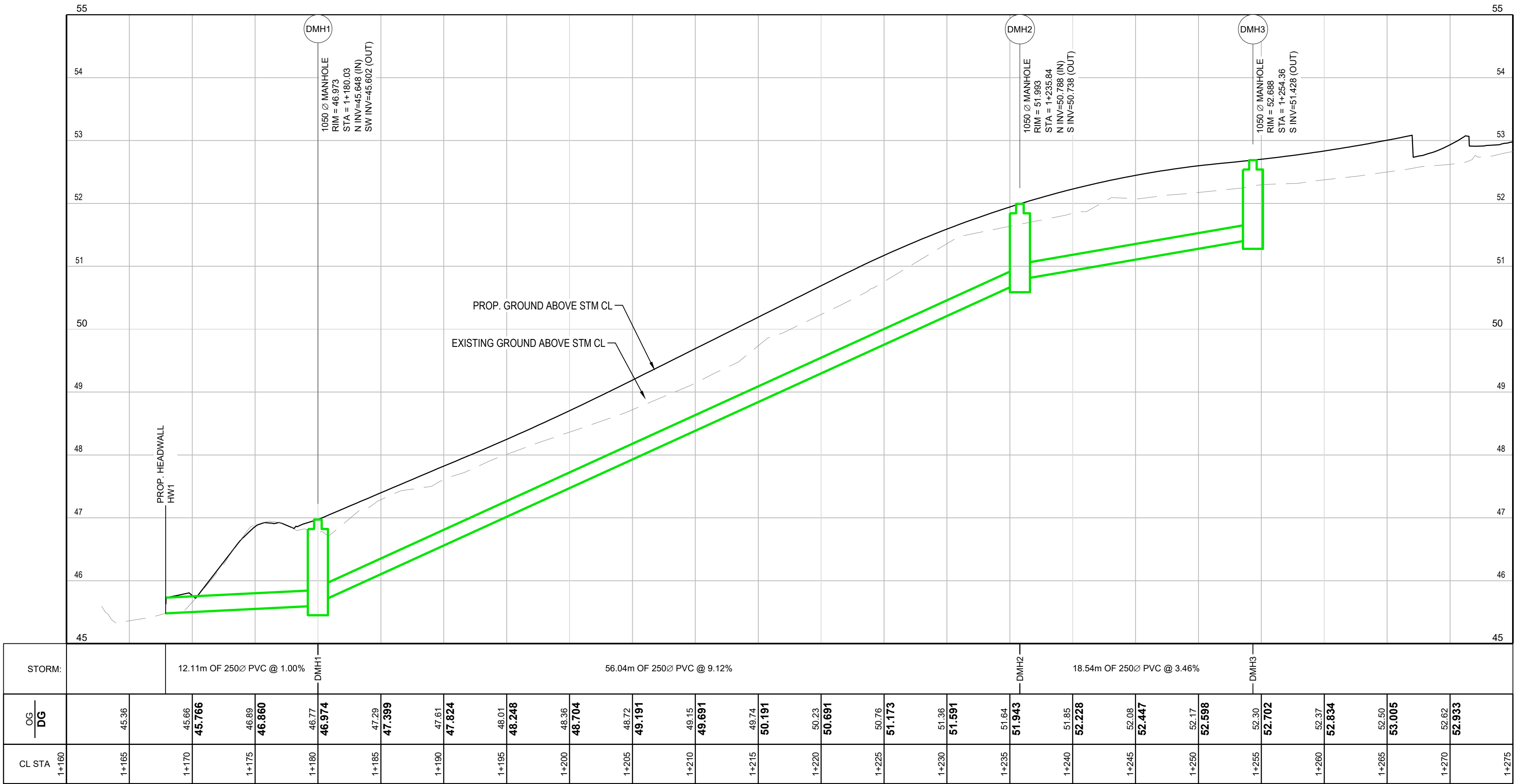
JUNE 7, 2021
ISSUED FOR
TENDER



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LEGEND

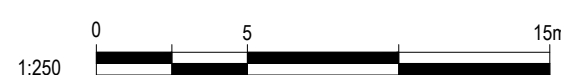
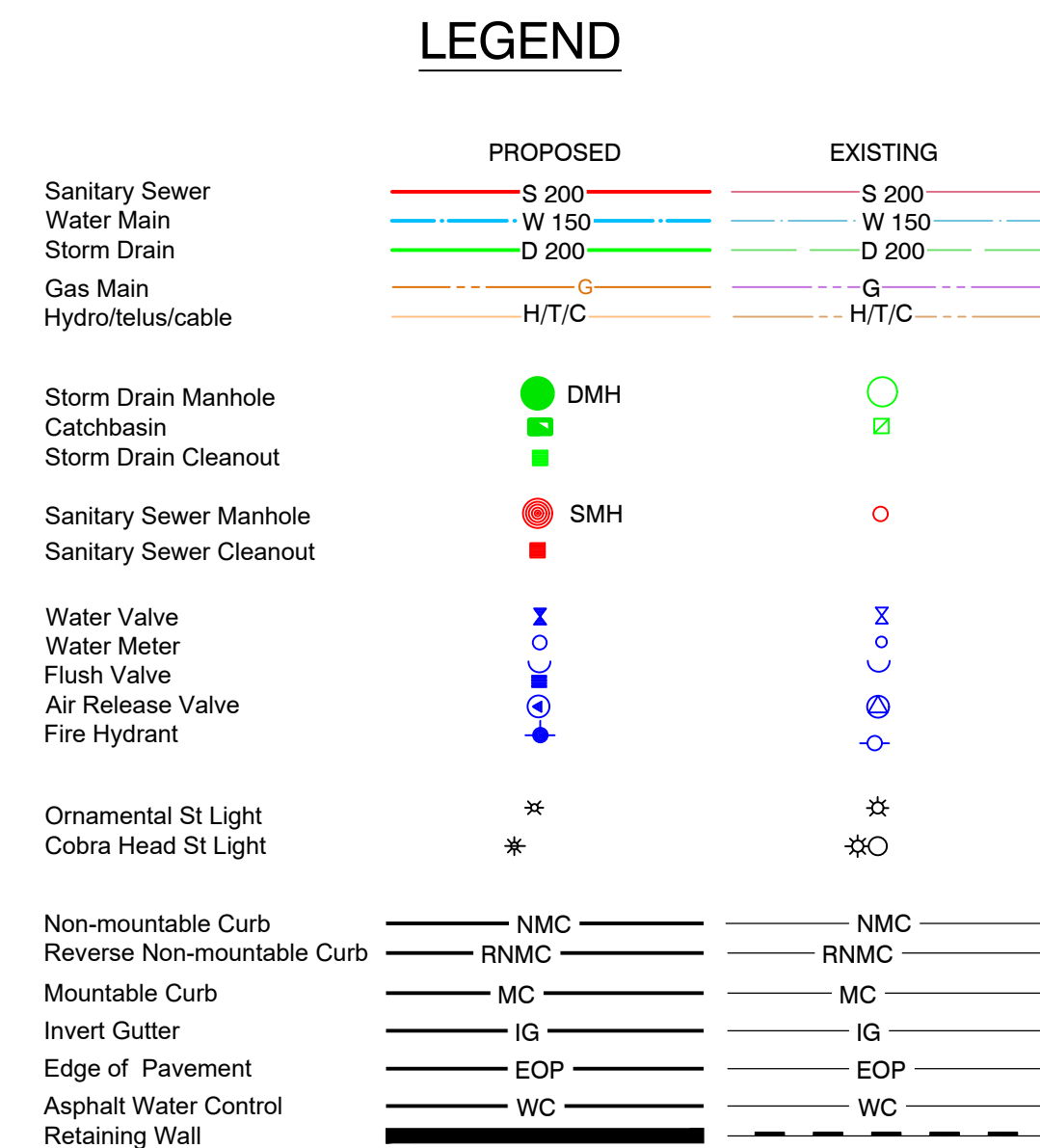
	PROPOSED	EXISTING
Sanitary Sewer	S 200	S 200
Water Main	W 150	W 150
Storm Drain	D 200	D 200
Gas Main	G	G
Hydro/telus/cable	H/T/C	H/T/C
Storm Drain Manhole	DMH	DMH
Catchbasin	CB	CB
Storm Drain Cleanout	SDC	SDC
Sanitary Sewer Manhole	SMH	SMH
Sanitary Sewer Cleanout	SSC	SSC
Water Valve	WV	WV
Water Meter	WM	WM
Flush Valve	FLV	FLV
Air Release Valve	ARV	ARV
Fire Hydrant	FH	FH
Ornamental St Light	*	*
Cobra Head St Light	*O	*O
Non-mountable Curb	NMC	NMC
Reverse Non-mountable Curb	RNMC	RNMC
Mountable Curb	MC	MC
Invert Gutter	IG	IG
Edge of Pavement	EOP	EOP
Asphalt Water Control	WC	WC
Retaining Wall	RET	RET

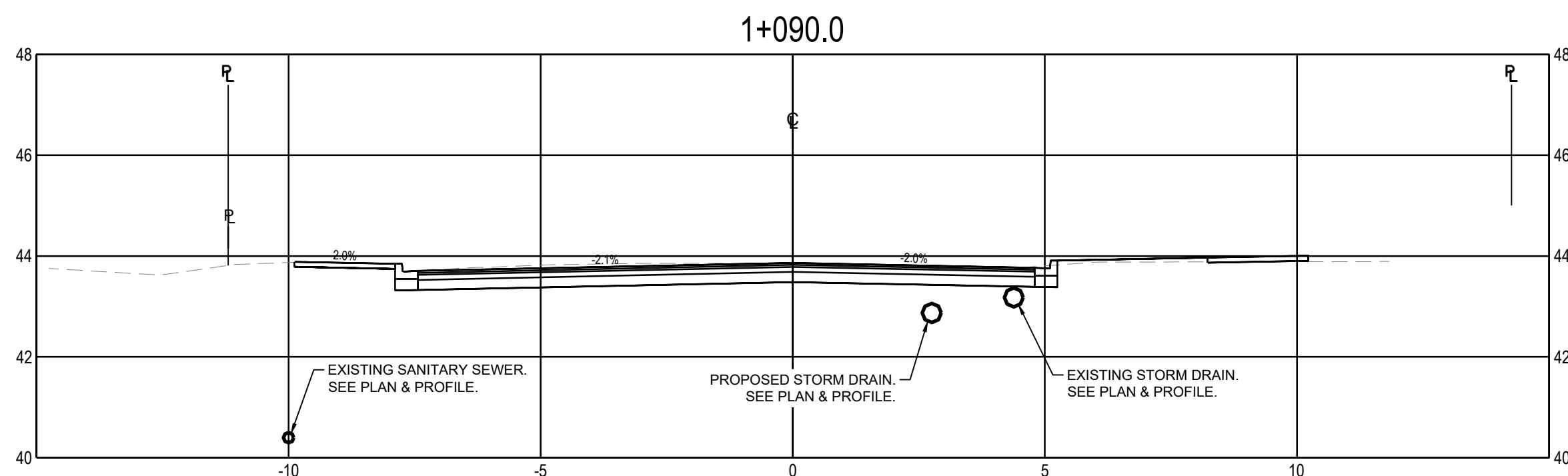
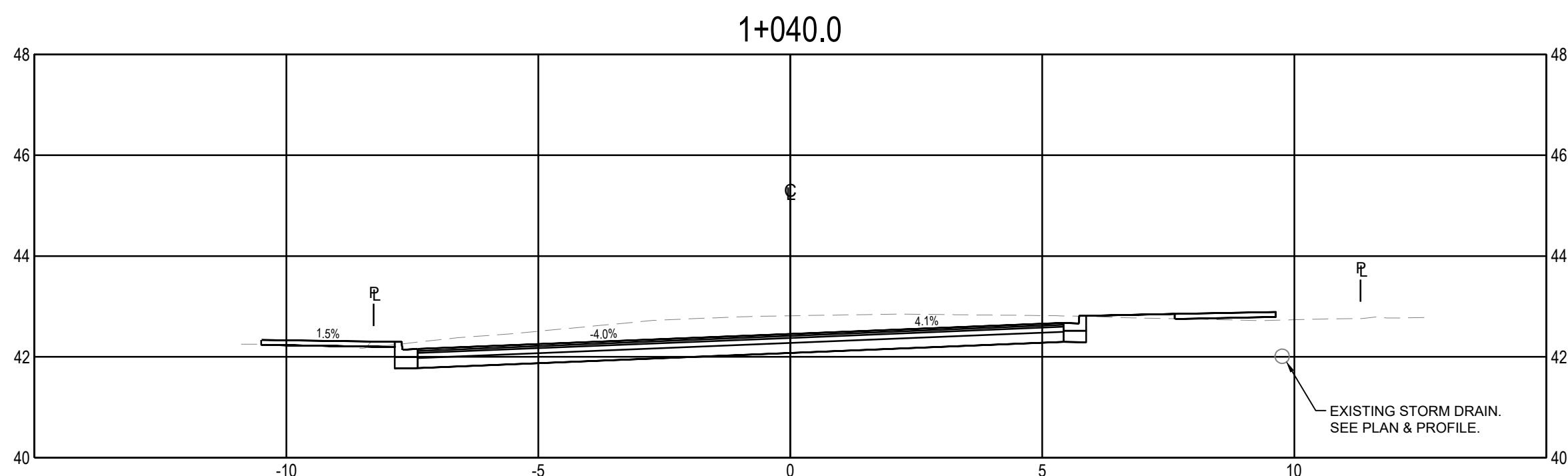
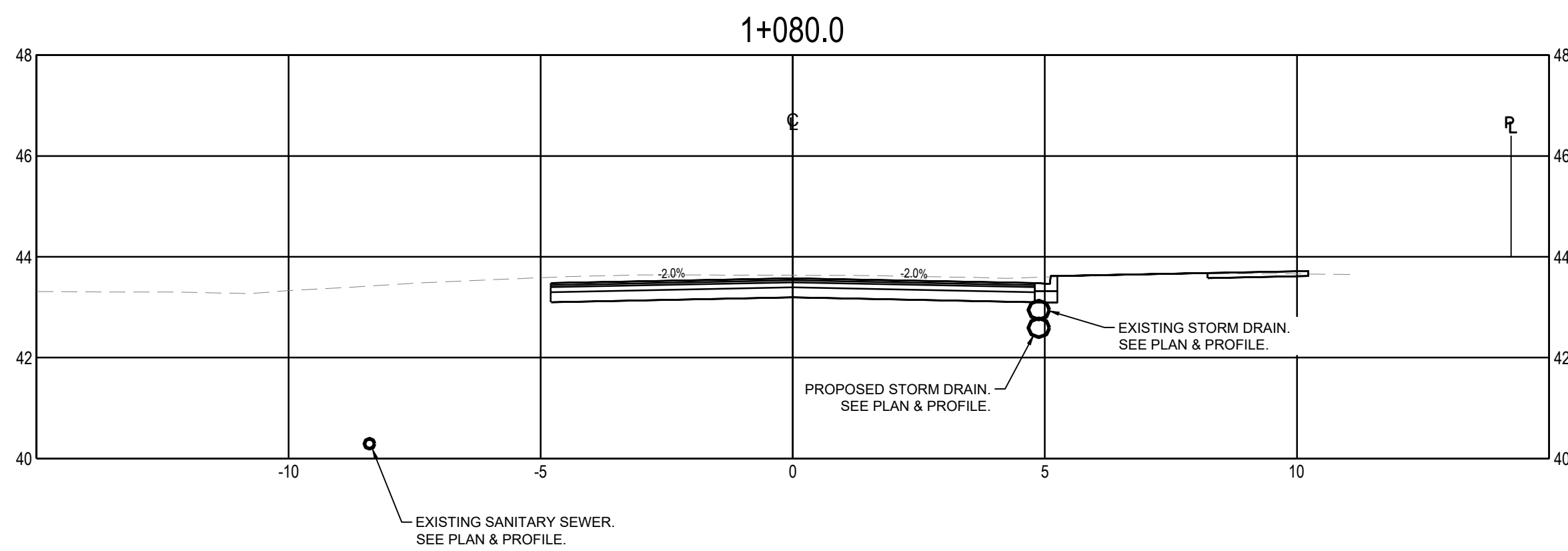
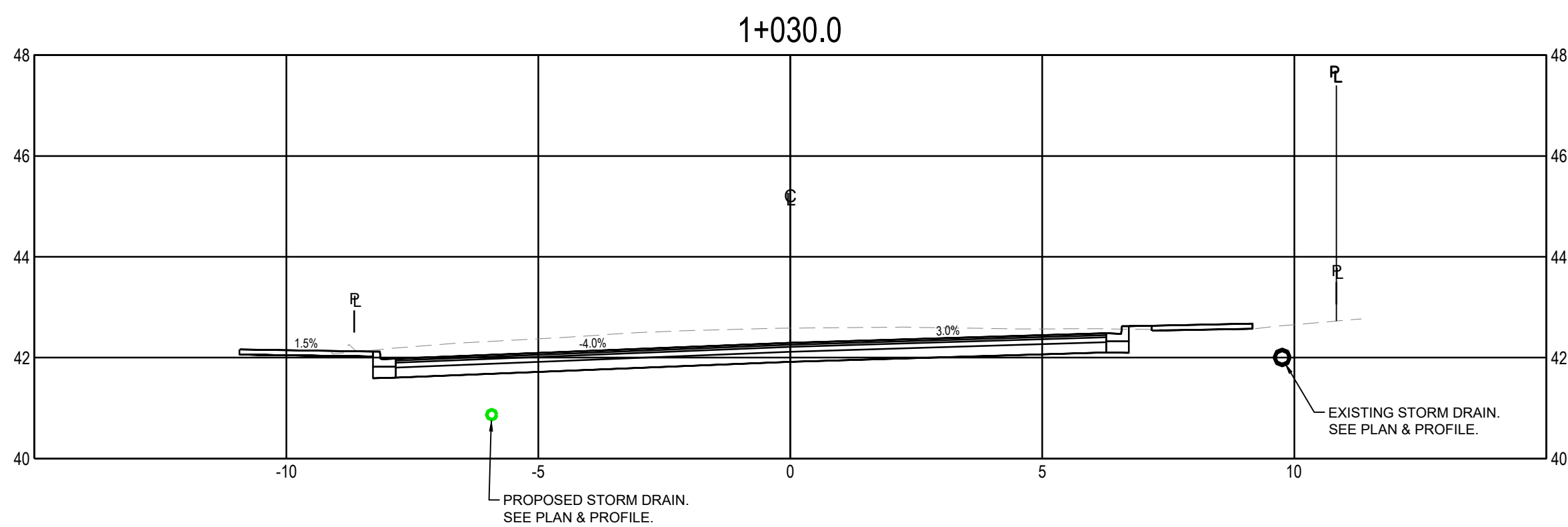
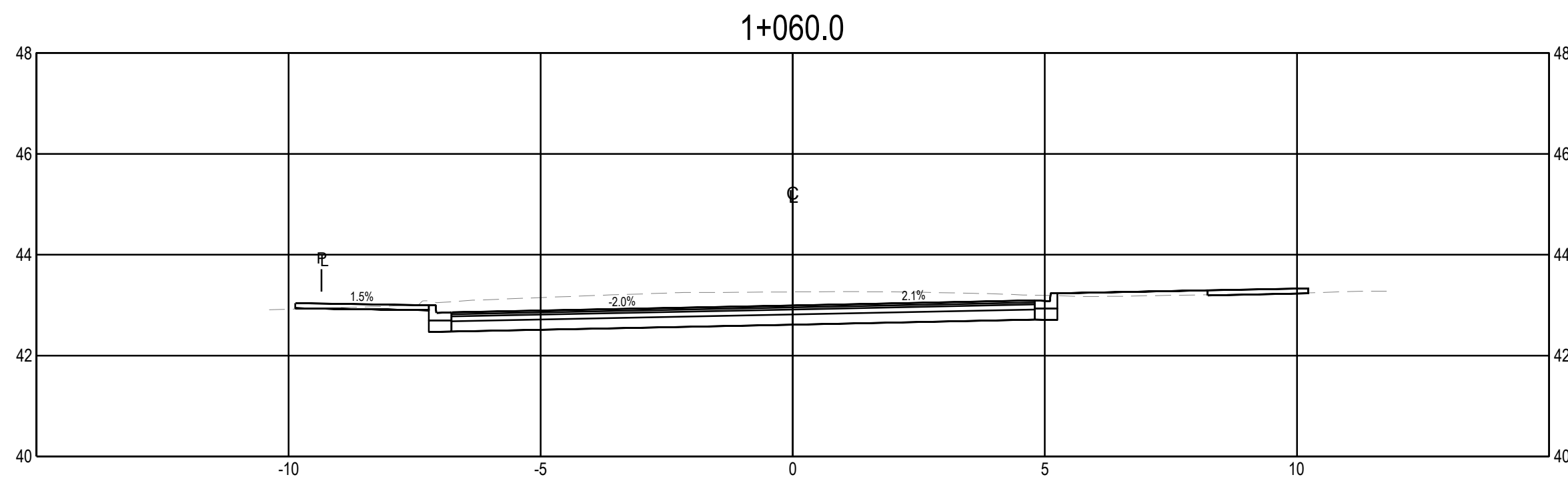
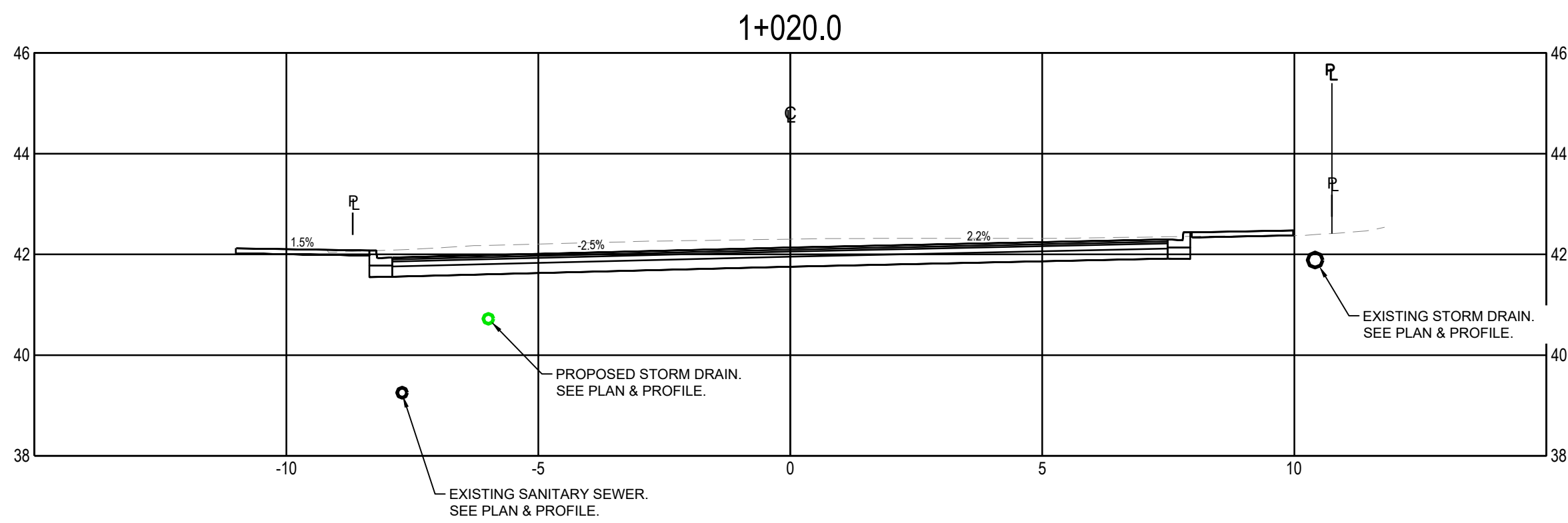
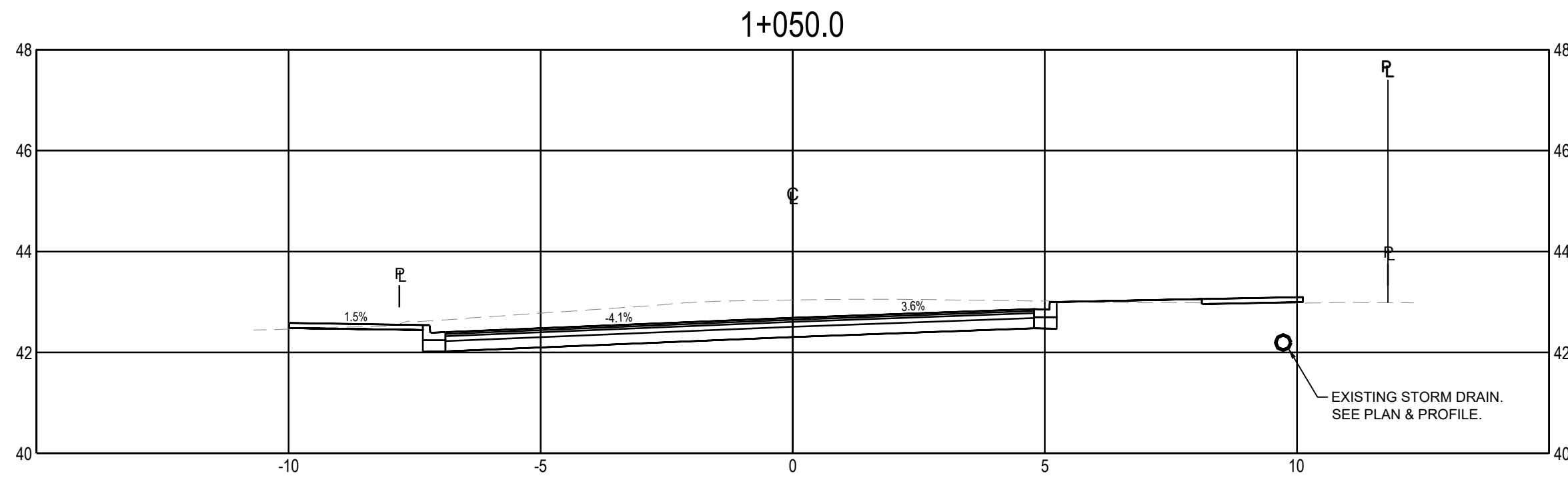
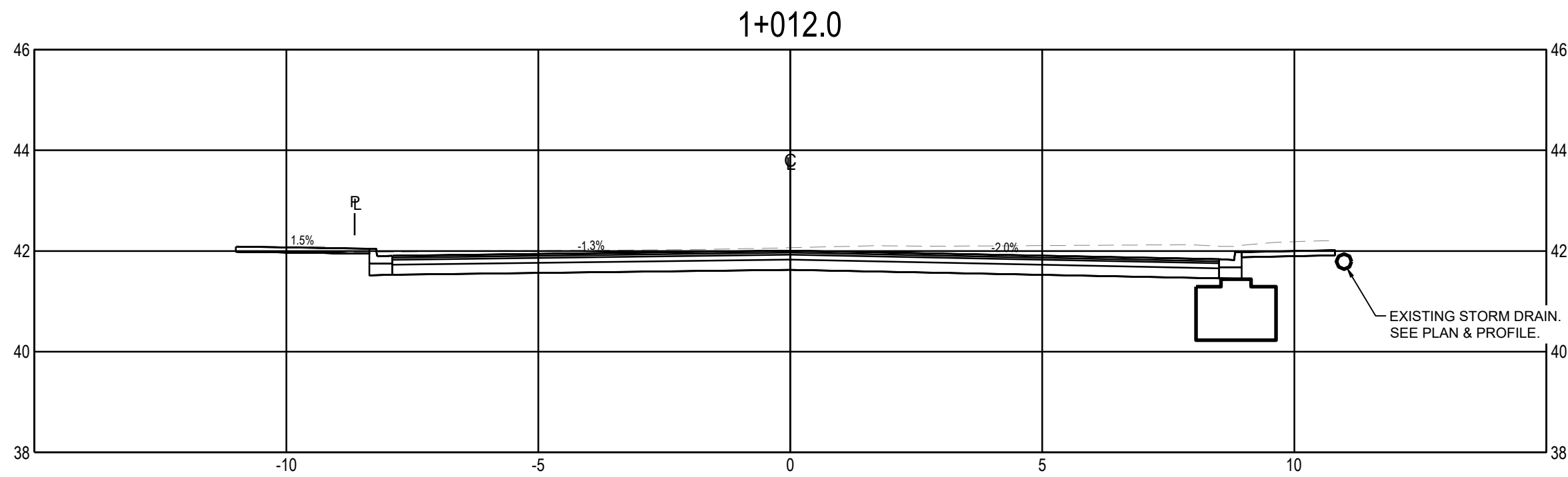


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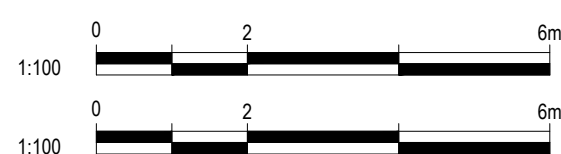


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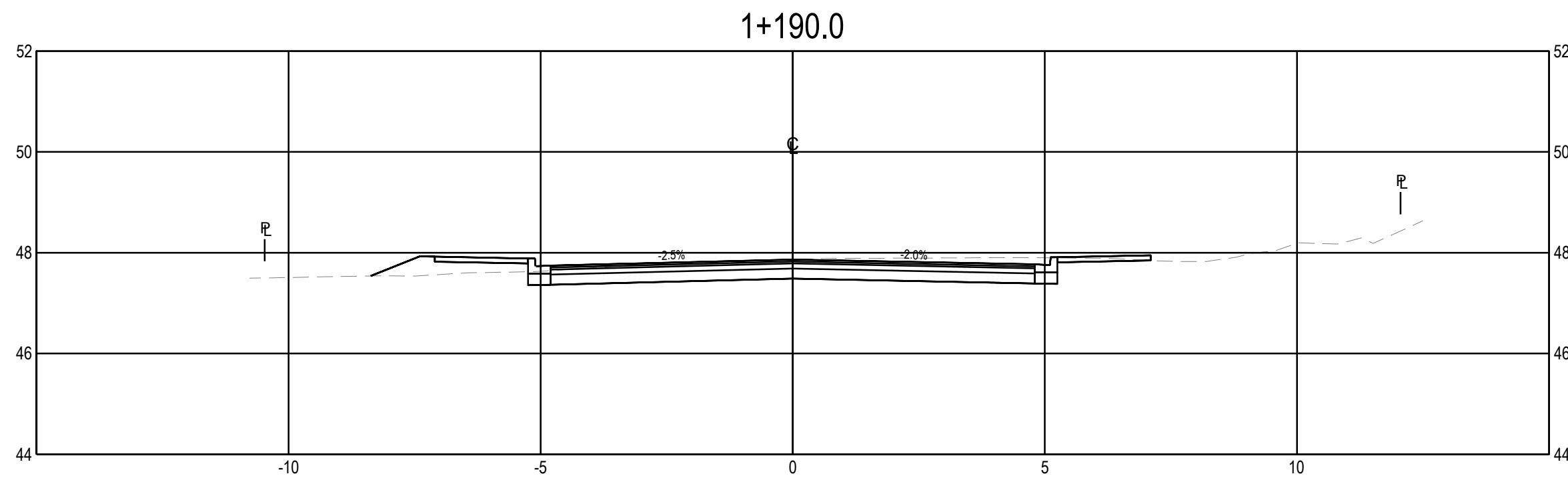
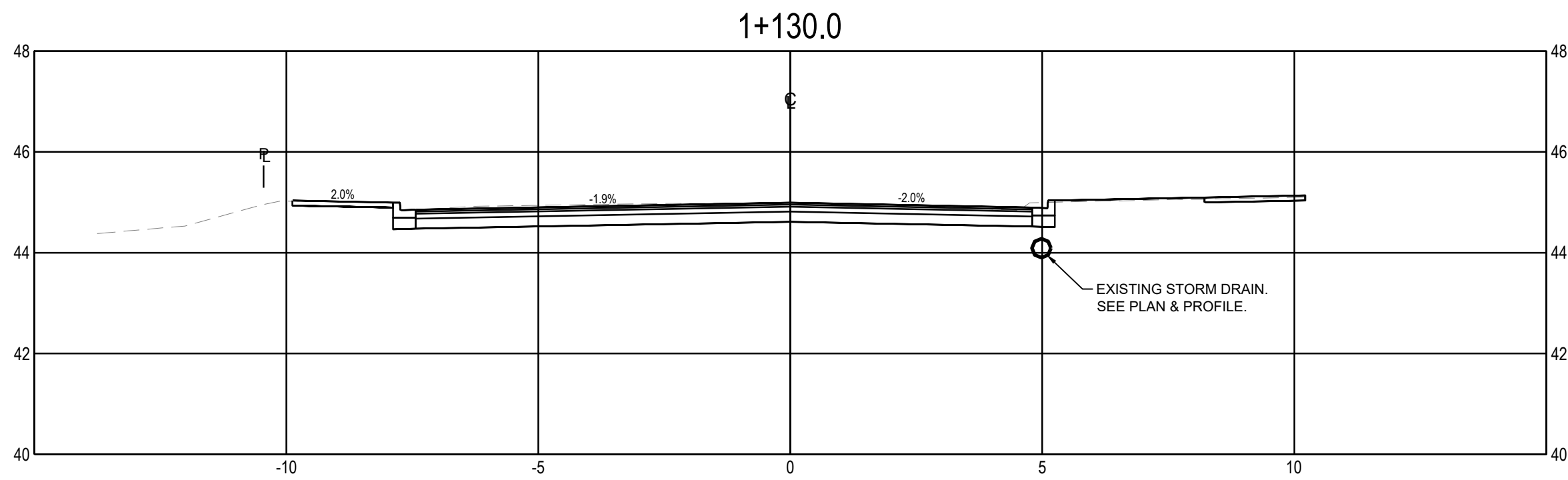
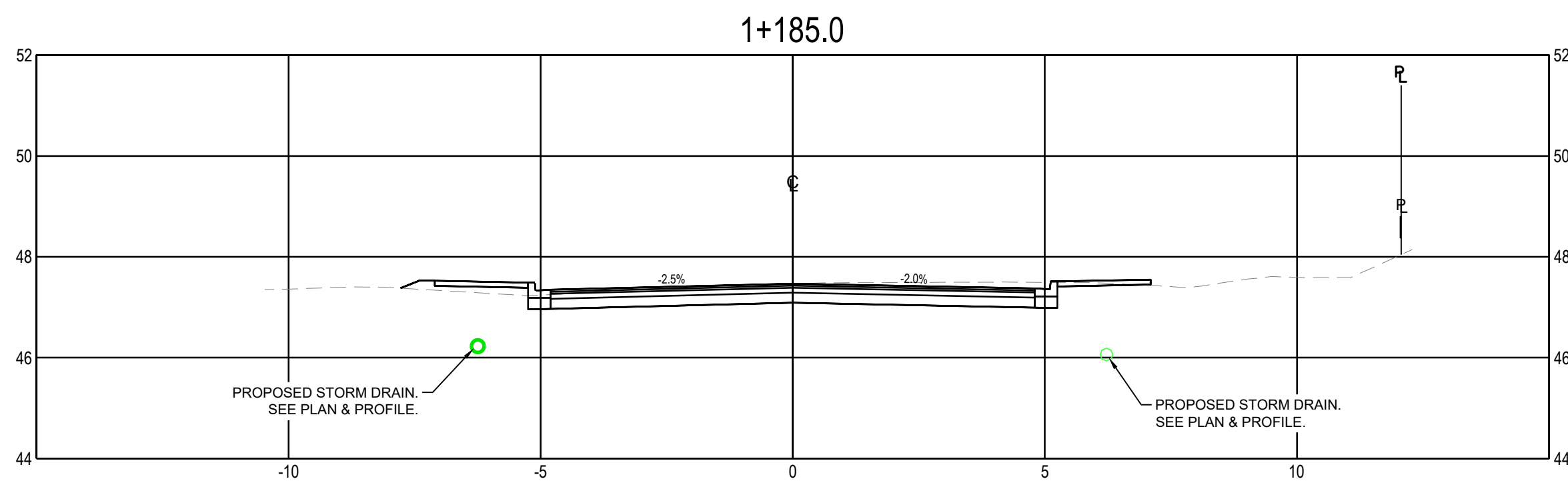
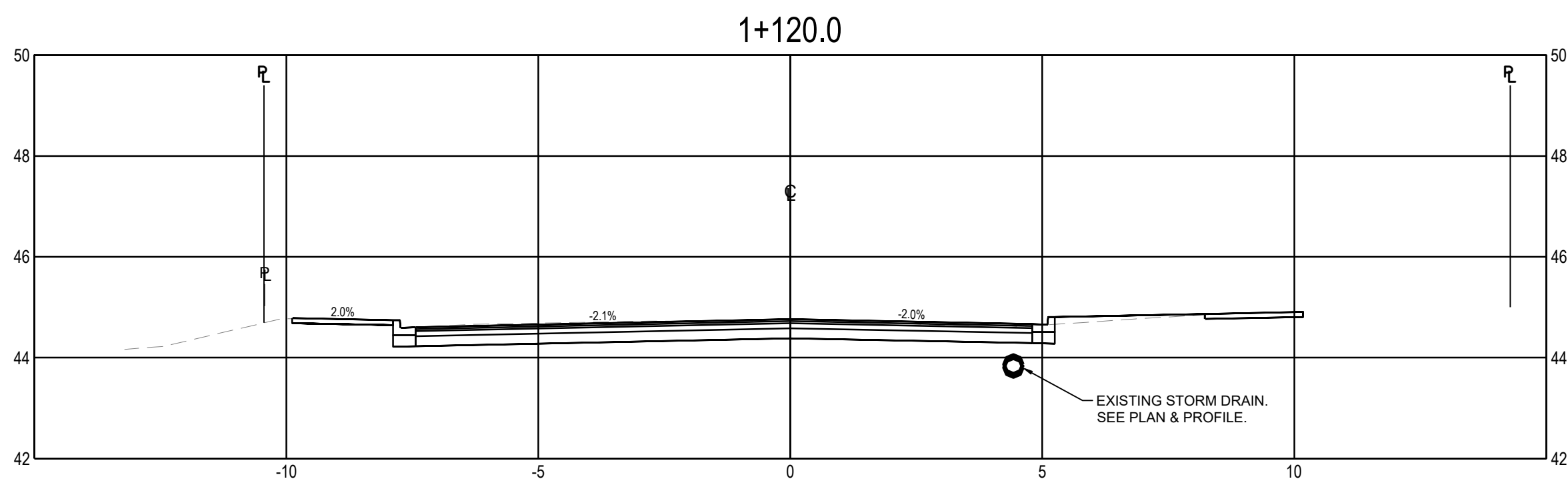
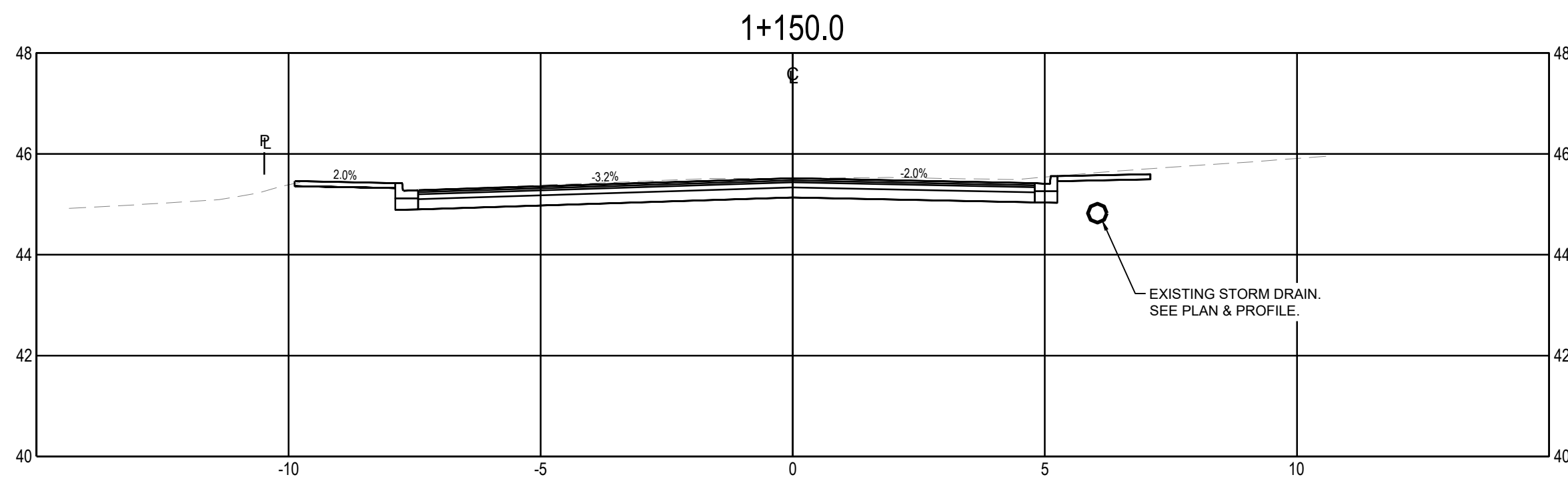
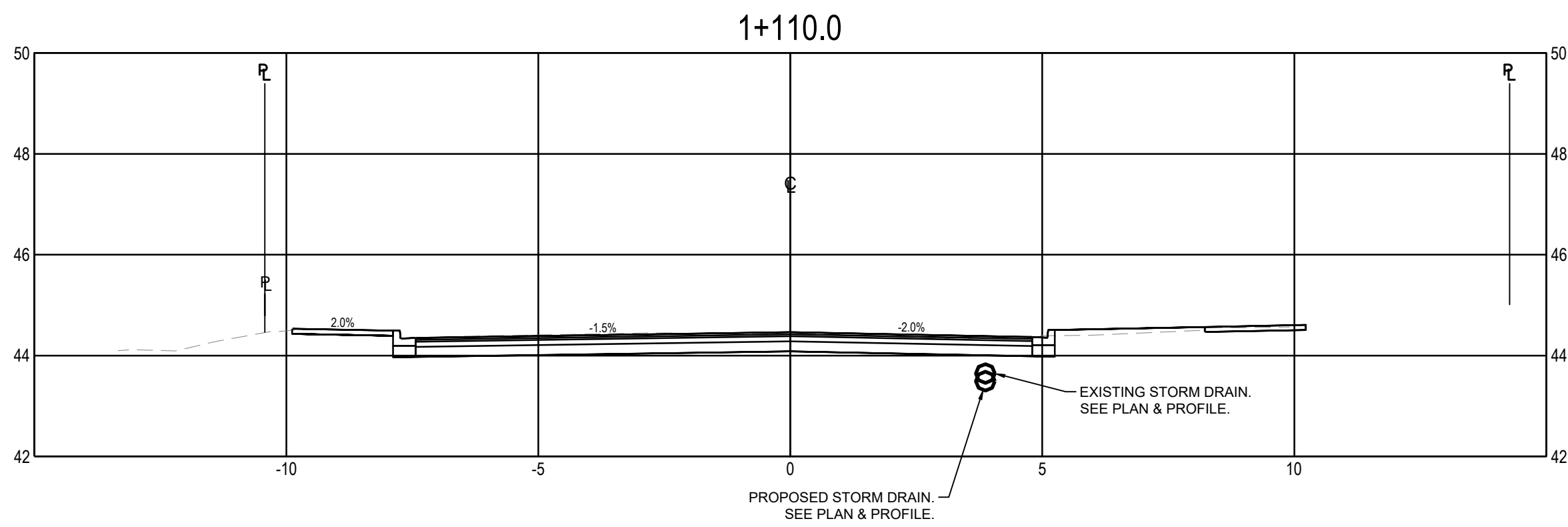
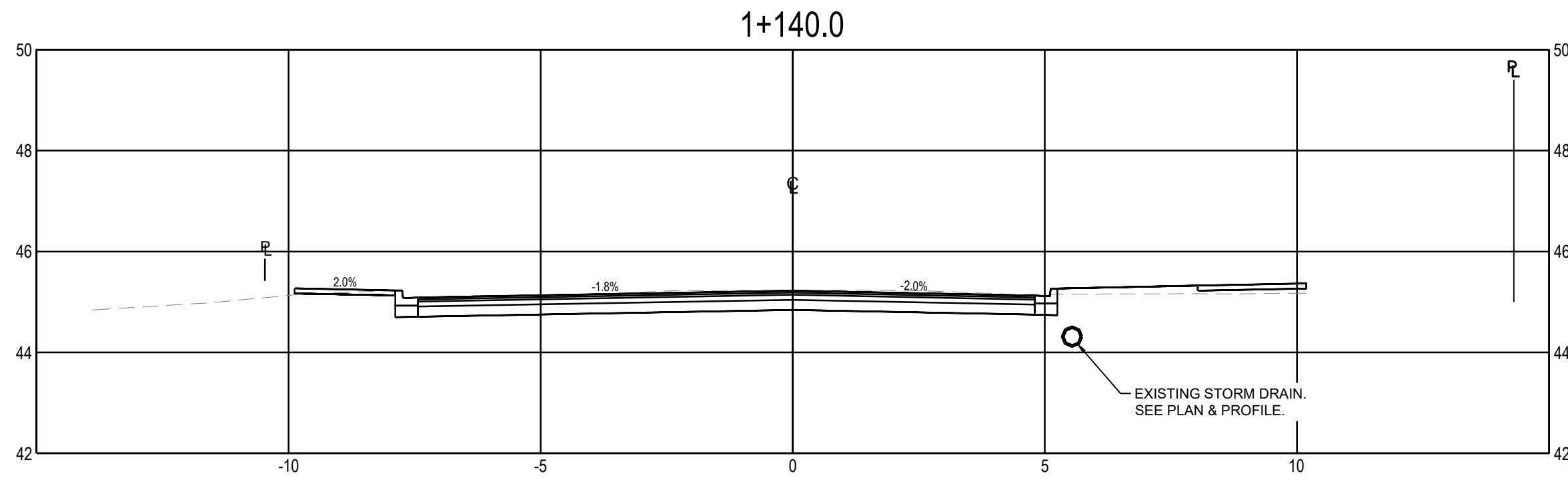
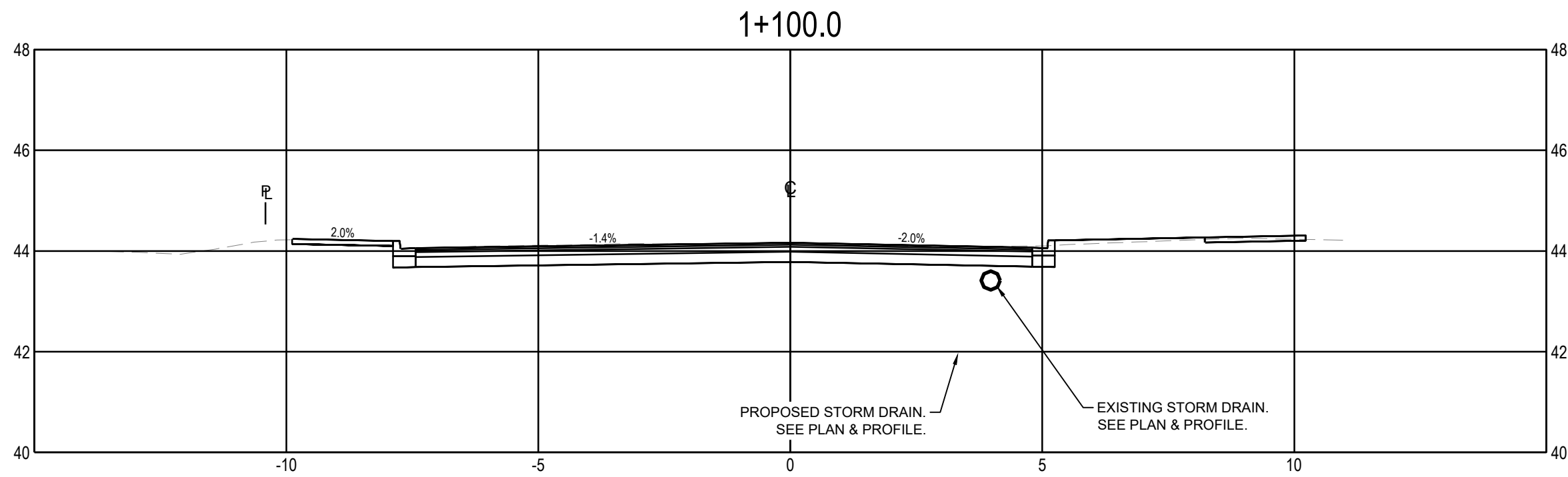




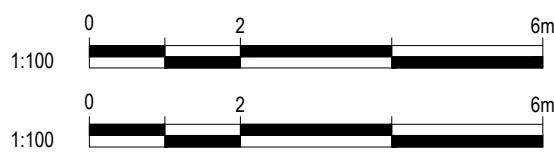
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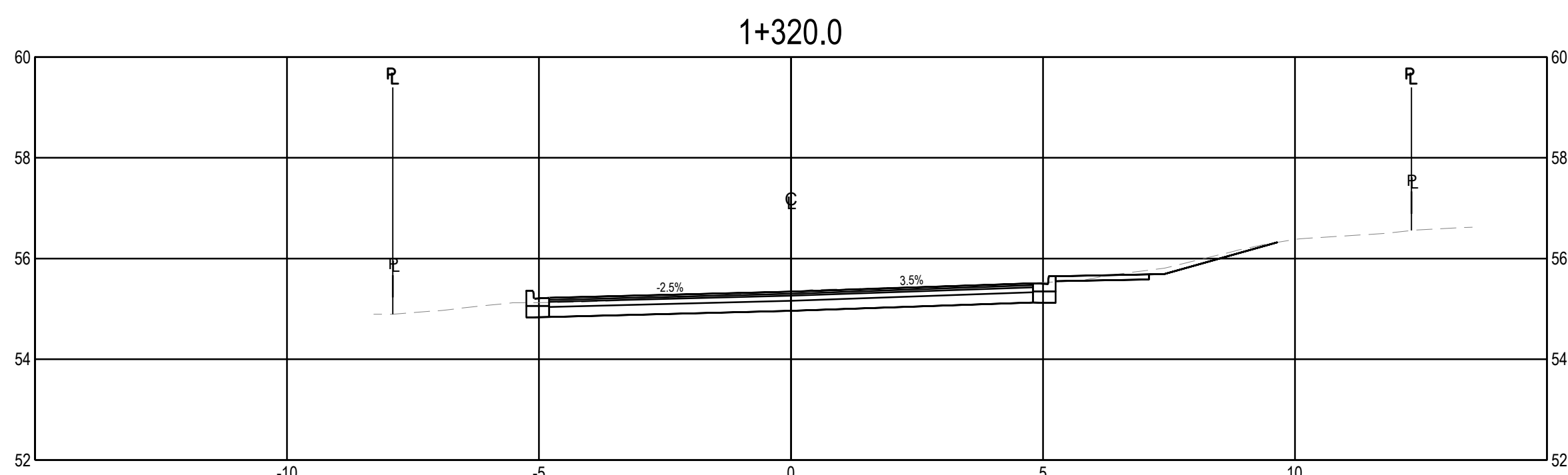
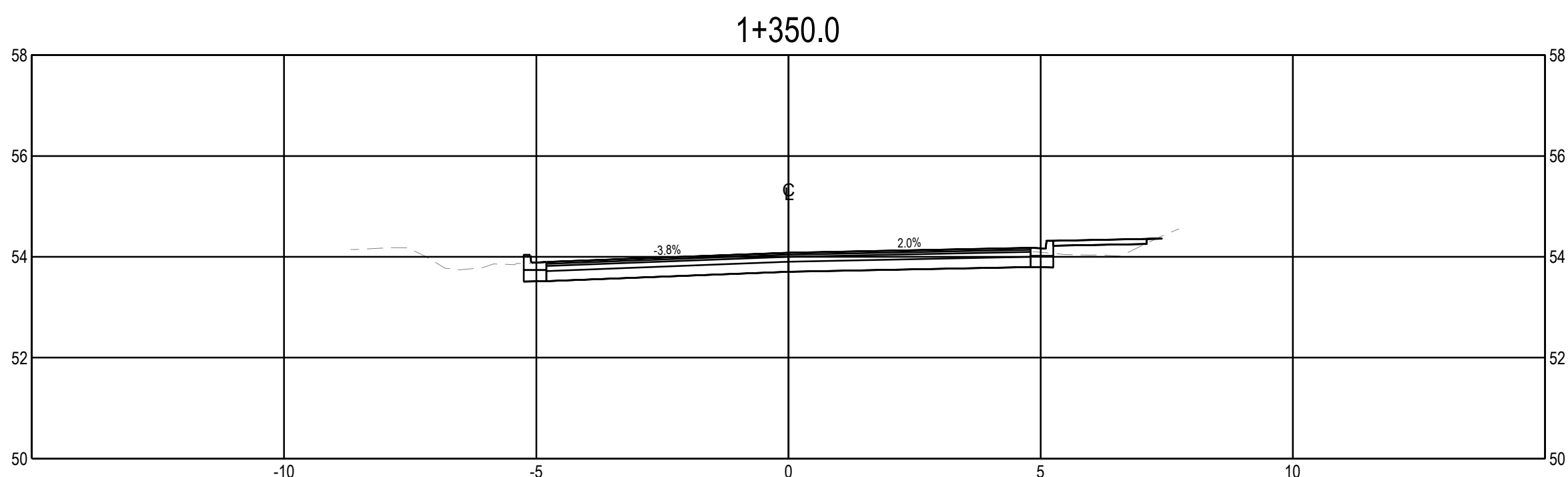
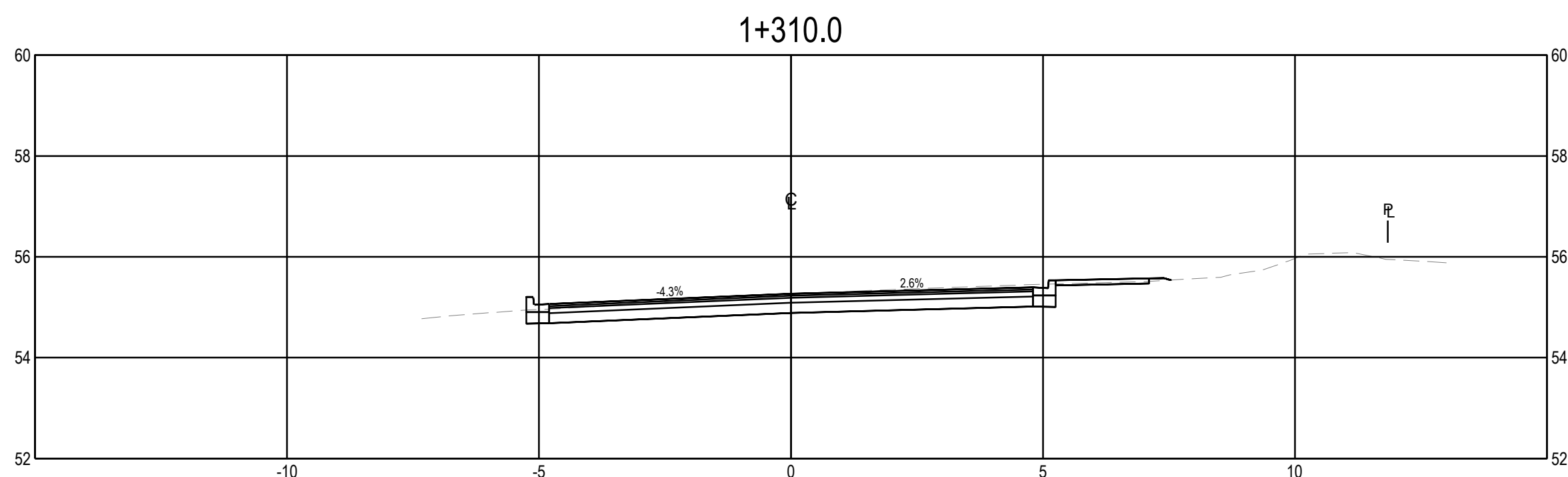
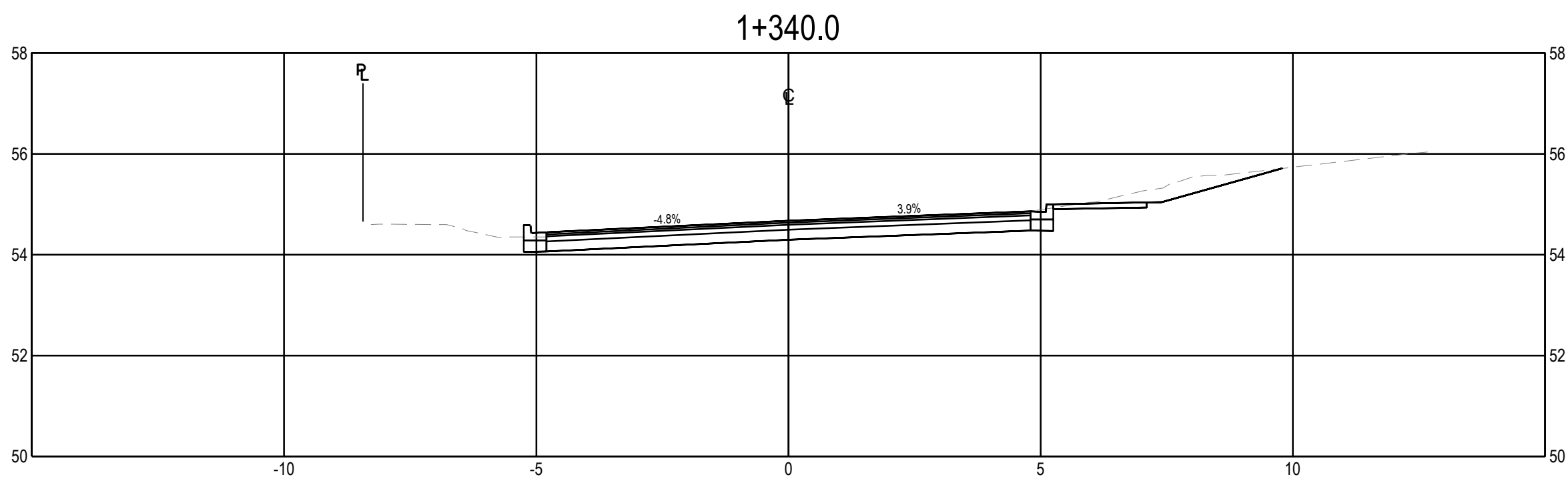
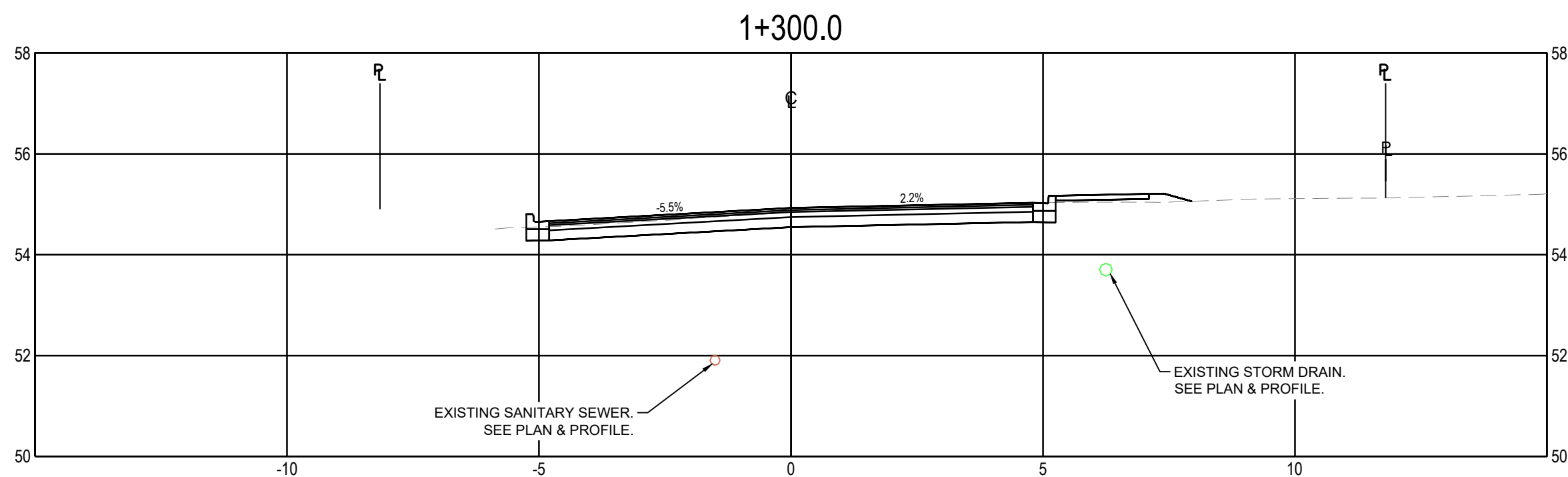
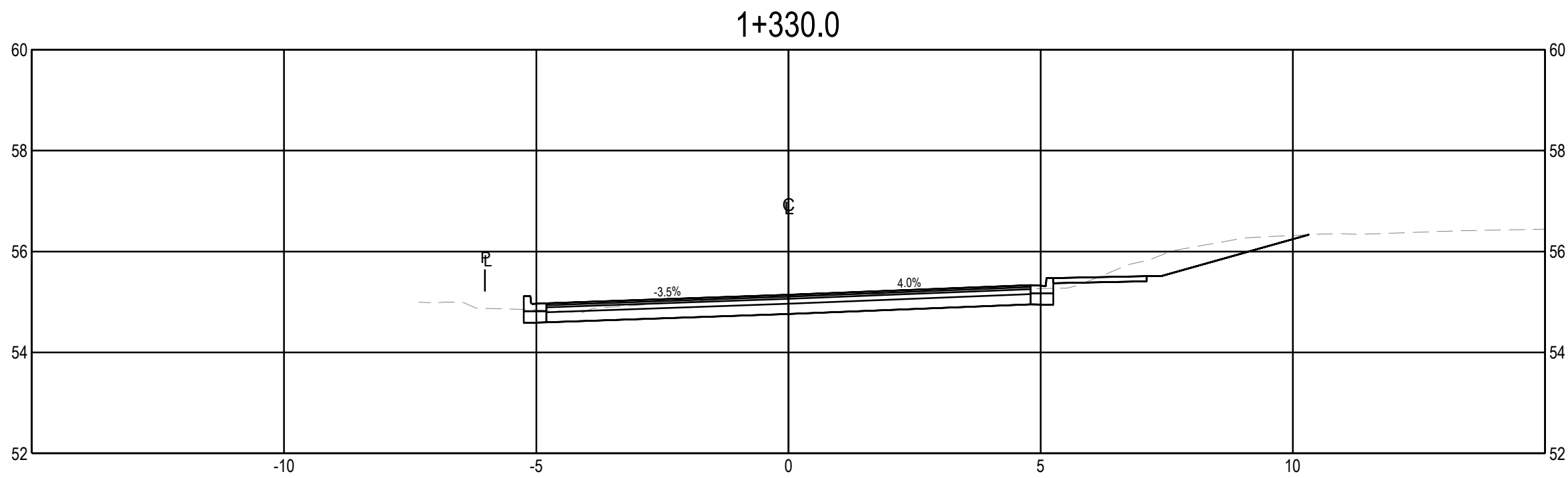
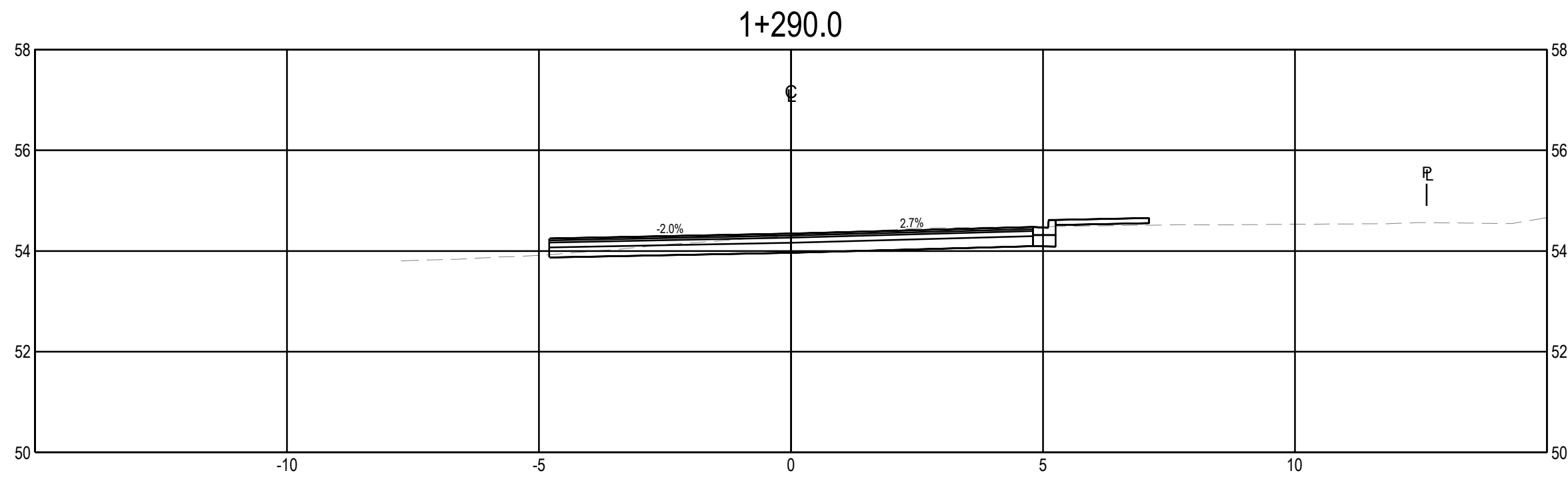
TECHNOLOGIST: FC
REVIEWED: EN
ENGINEER: ME

SEAL

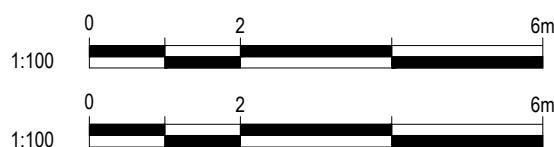
**DISTRICT OF
SOOKE**

**OTTER POINT ROAD
ACTIVE TRANSPORTATION
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SECTIONS**

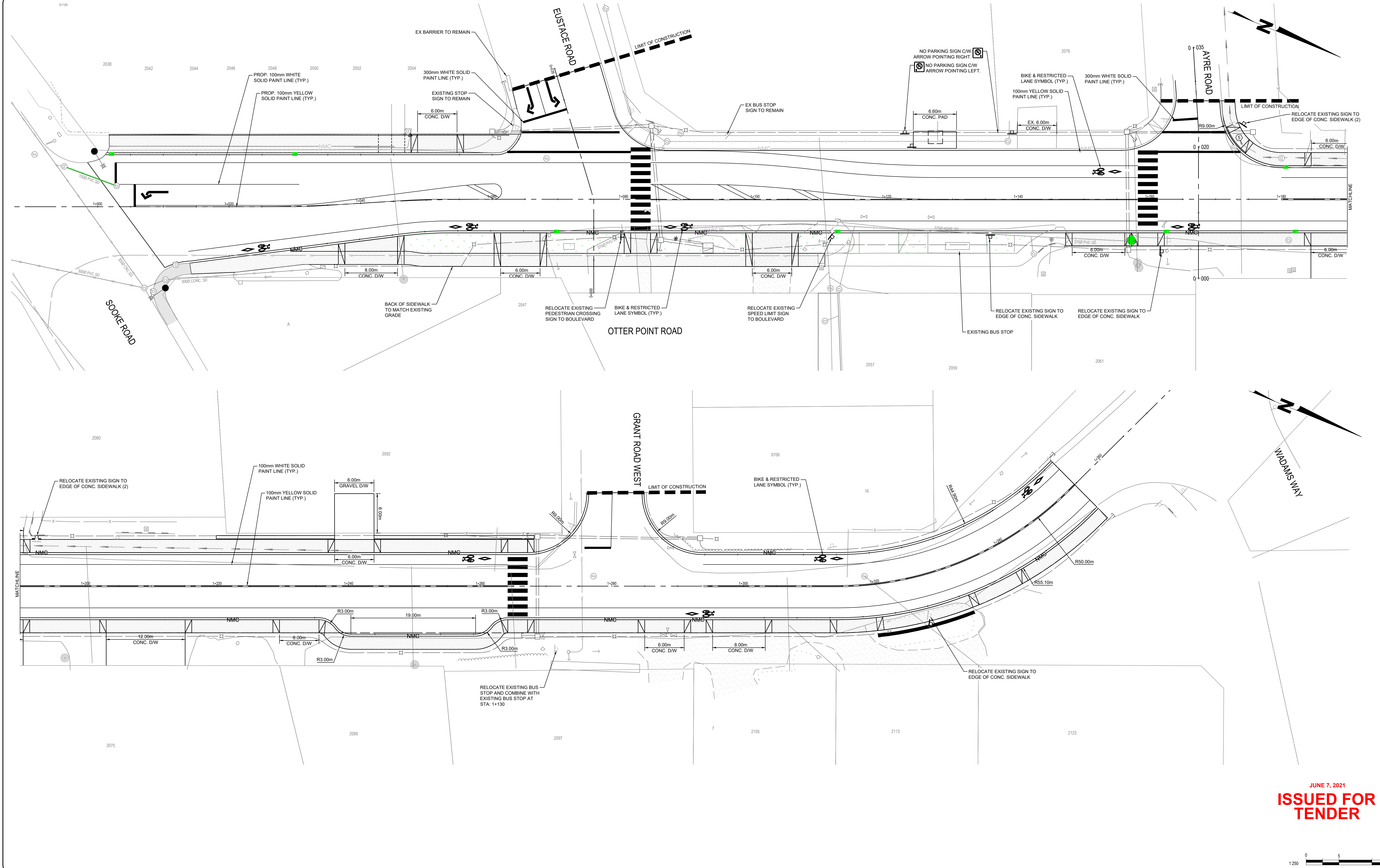
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228-03
GOVERNING AUTHORITY FILE No.
5330-20
SHEET **12** OF **13**
REV: ---
ON POINT DRAWING No.
228-C401



JUNE 7, 2021
ISSUED FOR TENDER



ISSUED				REVISIONS			
No.	DESCRIPTION	DATE	SIGN	No.	DESCRIPTION	DATE	SIGN
1	ISSUED FOR TENDER	2021-06-07	FC				



JUNE 7, 2021
ISSUED FOR TENDER



ISSUED				REVISIONS			
No.	DESCRIPTION	DATE	SIGN	No.	DESCRIPTION	DATE	SIGN
1	ISSUED FOR TENDER	2021-06-07	FC				