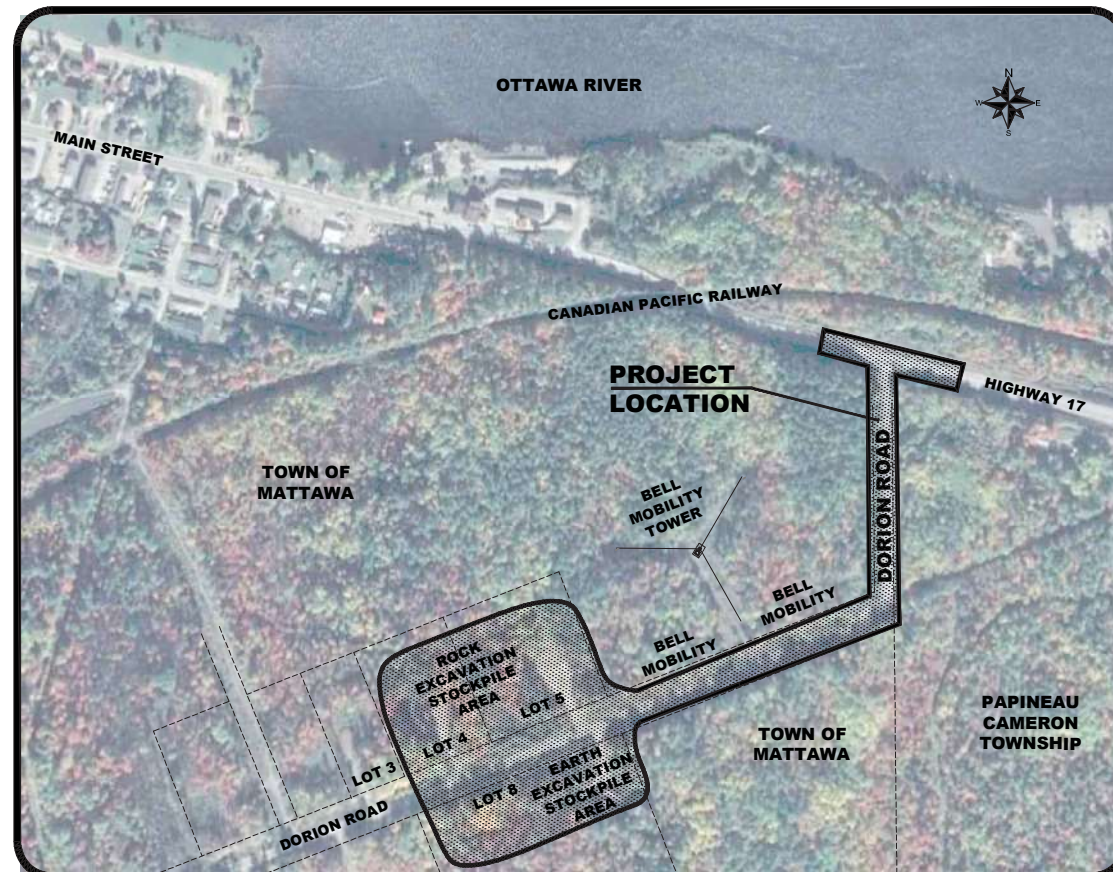


# TOWN OF MATTAWA DORION ROAD RECONSTRUCTION

FROM HIGHWAY 17 SOUTHERLY  
MATTAWA, ONTARIO

TOWN CONTRACT No.: 22-XXXX



DWG No.	DESCRIPTION
GI-1	GENERAL INFORMATION
PP-1	PLAN & PROFILE DRAWING - HIGHWAY 17 - Sta.21+980 TO Sta.22+140
PP-2	PLAN & PROFILE DRAWING - HIGHWAY 17 - Sta.22+140 TO Sta.22+450
PP-3-PLAN	PLAN DRAWING - DORION ROAD - Sta.10+000 TO Sta.10+250
PP-3-PROF	PROFILE DRAWING - DORION ROAD - Sta.10+000 TO Sta.10+250
PP-4-PLAN	PLAN DRAWING - DORION ROAD - Sta.10+250 TO Sta.10+530
PP-4-PROF	PROFILE DRAWING - DORION ROAD - Sta.10+250 TO Sta.10+530
PP-5-PLAN	PLAN DRAWING - DORION ROAD - Sta.10+530 TO Sta.10+840
PP-5-PROF	PROFILE DRAWING - DORION ROAD - Sta.10+530 TO Sta.10+840
R-1 TO R-3	REMOVAL DRAWINGS
GR-1	GRADING DRAWING
PM-1, PM-2	PAVEMENT MARKING DRAWINGS
D-1 TO D-5	DETAILS - SECTIONS

**ISSUED FOR  
90% REVIEW  
2021-11-01**

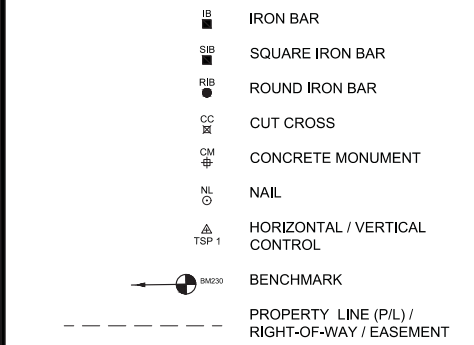
**J2 Jp2g Consultants Inc.**  
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Phone: (613)735-2507, Fax: (613)735-4513  
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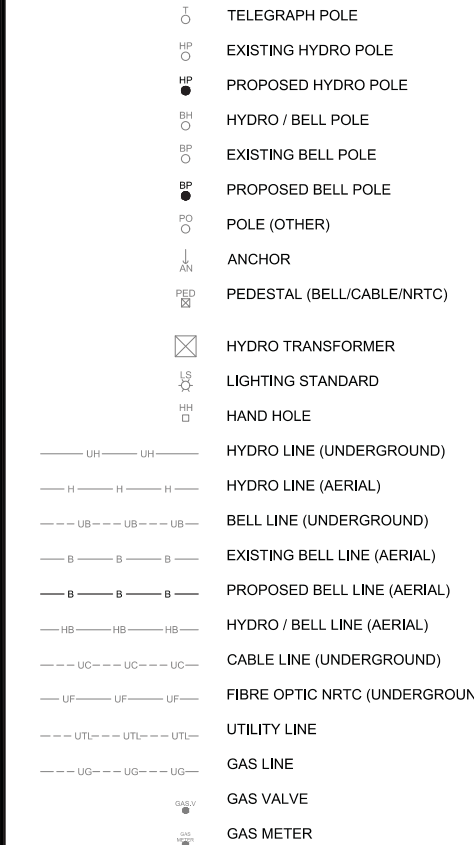
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**LEGEND**

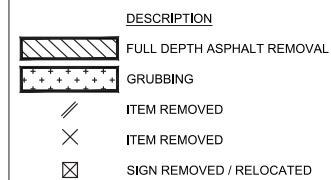
**CONTROL / MONUMENTS / PROPERTY / SURVEY**



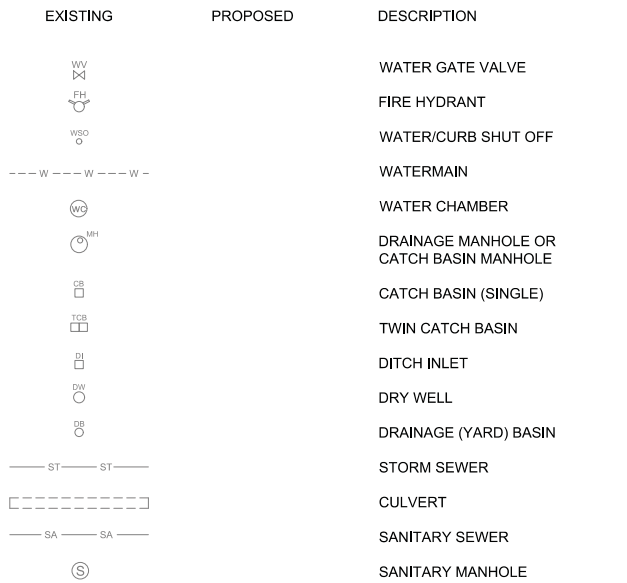
**UTILITIES**



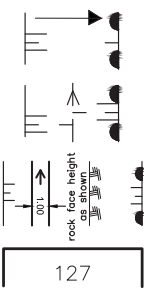
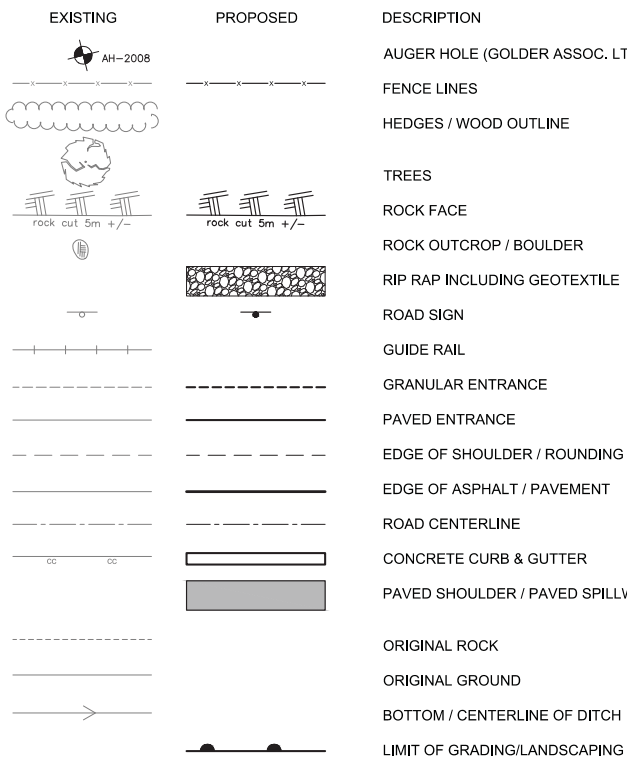
**REMOVALS LEGEND**



**WATER / STORM / SANITARY**



**GROUND FEATURES / SURFACE OBJECTS / GRADING**



127

**GENERAL NOTES:**

- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROTECTION FOR ALL EXISTING UNDERGROUND UTILITIES DURING CONSTRUCTION
- THE FOLLOWING GENERAL INFORMATION NOTES ARE EXCERPTS FROM THE CONTRACT SUBSECTION OF 7.02 AND AS DETAILED ELSEWHERE IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL PROVIDE LAYOUT FOR CONTRACT ADMINISTRATOR USING 50mm X 50mm X 600mm WOOD STAKES WITH STATION OFFSETS FOR ROAD LAYOUT AT 20m INTERVALS ON TANGENT SECTIONS AND 10m INTERVALS ON CURVES. CONTRACTOR WILL ALSO PROVIDE LAYOUT ON ALL STRUCTURES INCLUDING BUT NOT LIMITED TO CULVERTS, ETC. ALL HORIZONTAL LAYOUT WILL BE ACCOMPANIED BY VERTICAL CONTROL PUBLISHED AND PROVIDED TO THE CONTRACT ADMINISTRATOR

**LAYOUT BY CONTRACTOR:**  
THE CONTRACTOR IS TO COMPLETE THE LAYOUT FOR THE PROJECT AS PER OPS GENERAL CONDITIONS OF CONTRACT SUBSECTION OF 7.02 AND AS DETAILED ELSEWHERE IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL PROVIDE LAYOUT FOR CONTRACT ADMINISTRATOR USING 50mm X 50mm X 600mm WOOD STAKES WITH STATION OFFSETS FOR ROAD LAYOUT AT 20m INTERVALS ON TANGENT SECTIONS AND 10m INTERVALS ON CURVES. CONTRACTOR WILL ALSO PROVIDE LAYOUT ON ALL STRUCTURES INCLUDING BUT NOT LIMITED TO CULVERTS, ETC. ALL HORIZONTAL LAYOUT WILL BE ACCOMPANIED BY VERTICAL CONTROL PUBLISHED AND PROVIDED TO THE CONTRACT ADMINISTRATOR

- GRADES PROVIDED ON SHEETS GR-1 ARE FINISH ASPHALT GRADES AT THE EDGE OF PAVEMENT, FINISH ASPHALT GRADES AT CENTER LINE, BACK OF ASPHALT SHOULDER, AND FINISH BOTTOM OF DITCH.
- AT ISSUED FOR CONSTRUCTION PERIOD, THE CONTRACTOR WILL BE SUPPLIED WITH THE GRADING TEMPLATE REPORTS, THESE REPORTS CONTAIN ALL NECESSARY INFORMATION RELATING TO DISTANCE AND ELEVATION FOR EACH STATION NECESSARY FOR THE CONSTRUCTION OF DORION ROAD.

- SURVEY NOTES:**
- PROPERTY LINE INFORMATION ON THE DRAWINGS ARE APPROXIMATE AND HAVE NOT BEEN VERIFIED BY AN ONTARIO LAND SURVEYOR (OLS). THE ACCURACY OF THE POSITION (S) OF SUCH PROPERTY LINES IS NOT GUARANTEED.
  - CONTRACTOR IS TO PROTECT TO THE BEST OF HIS ABILITY PROPERTY MARKERS SHOWN ON THE CONTRACT DRAWINGS AND FOUND IN THE FIELD. IF A PROPERTY MARKER IS DISTURBED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REESTABLISH THE PROPERTY MARKER WITH AN LICENSED ONTARIO LAND SURVEYOR, AT NO COST TO THE OWNER.
  - OBSERVED REFERENCE POINTS AND BACKGROUND SURVEY OF PROVIDED BY JP2G CONSULTANTS INC.
  - OBSERVED REFERENCE POINTS (ORP) DERIVED FROM GPS OBSERVATIONS USING PERCEPSE POINT POSITIONING (PPP) SERVICE UTM ZONE 17 NAD 83 (CSRS) 2010.

- UNDERGROUND UTILITIES:**
- THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON CONTRACT DRAWINGS ARE BASED ON THE INFORMATION PROVIDED TO THE CONTRACT ADMINISTRATOR. IT IS HOWEVER, THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE MUNICIPAL AUTHORITIES OR UTILITY COMPANIES FOR FURTHER INFORMATION REGARDING TO THE EXACT LOCATION OF THESE UTILITIES, TO EXERCISE THE NECESSARY CARE IN CONSTRUCTION OPERATIONS AND TO TAKE SUCH OTHER PRECAUTIONS AS ARE NECESSARY TO SAFEGUARD THE UTILITIES FROM DAMAGE.
  - PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST EXCAVATE SUCH TEST PITS AS MAY BE REQUIRED TO ACCURATELY LOCATE ALL EXISTING SEWERS, WATERMANS AND OTHER UNDERGROUND UTILITIES WHICH MAY CROSS OR BE IN CONFLICT WITH THE PROPOSED UNDERGROUND WORKS WITHIN THIS CONTRACT TO PERMIT THE CONTRACT ADMINISTRATOR TO DETERMINE AND IMPLEMENT ANY REQUIRED ADJUSTMENTS DUE TO GRADE CONFLICTS. THE CONTRACTOR MUST HAVE NO CLAIM AGAINST THE OWNER FOR ANY DELAYS OR COSTS TO REPLACE UNDERGROUND WORKS ALREADY INSTALLED WHICH MAY RESULT FROM FAILURE TO ACCURATELY LOCATE ANY UNDERGROUND FACILITY AS REQUIRED IN ADVANCE.
  - NO RESPONSIBILITIES WILL BE ASSUMED BY THE OWNER FOR THE CORRECTNESS OR COMPLETENESS OF THE PLANS WITH RESPECT TO THE EXISTING UTILITIES, PIPES, CATCH BASINS, CHAMBERS, OR OTHER OBJECTS, EITHER UNDERGROUND OR ON THE SURFACE, AND SHOULD THE PLOTS OF SUCH BE FOUND INCORRECT OR INCOMPLETE. THE CONTRACTOR MUST HAVE NO CLAIM ON THIS ACCOUNT, THE OWNER DOES NOT INSURE THE ACCURACY OF SUCH INFORMATION AND THE CONTRACTOR MUST NOT MAKE ANY CLAIM AGAINST THE OWNER FOR DAMAGES OR EXTRA WORK CAUSED OR OCCASIONED BY HIS RELYING UPON SUCH RECORDS, REPORTS OR INFORMATION EITHER AS A WHOLE OR IN PART.
  - AT NO EXTRA COST TO THE OWNER, AND PAID FOR BY THE APPROPRIATE TENDER ITEM WHERE THE ROCK EXCAVATION WORKS AND THE EARTH EXCAVATION WORKS REQUIRES THE SUPPORTING SYSTEM(S) TO BELL CANADA AND HYDRO ONE UTILITIES NOT LIMITED TO UNDERGROUND UTILITIES AND UTILITY POLES. THE CONTRACTOR MUST SUPPORT THE UTILITY IN ACCORDANCE WITH THE REQUIREMENTS OF BELL CANADA AND HYDRO ONE. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS.

- OVERHEAD UTILITIES:**
- THE CONTRACTOR MUST PROTECT ALL UTILITY POLES, UTILITY PEDESTALS AND LINES IN ACCORDANCE WITH THE UTILITY COMPANY REQUIREMENTS, PAYMENT FOR PROTECTION, TEMPORARY BRACING, STANDBY AND ASSOCIATED WORK WILL BE DEEMED TO BE INCLUDED IN THE CONTRACT PRICE FOR THE ITEM ASSOCIATED WITH THE PROTECTION REQUIREMENT.
  - THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS FOR DETERMINING THE OWNER(S) OF THE UTILITY POLE(S) AND PEDESTALS THAT MAY REQUIRE PROTECTION AND TEMPORARY BRACING.

- ENTRANCE NOTES:**
- PROVIDE 150mm GRANULAR 'A' BASE ON ALL GRANULAR ENTRANCES.
  - ALL ENTRANCES RADIUS SHALL BE 5.0m, UNLESS OTHERWISE SHOWN.
  - NEW ENTRANCE WIDTH SHALL MATCH THE EXISTING ENTRANCE WIDTH.

- SUBSURFACE INFORMATION:**
- GEOTECHNICAL INVESTIGATION REPORT, DORION ROAD RECONSTRUCTION, FROM HIGHWAY 17 FOR 6.69km SOUTHERLY, DATED JUNE 2021.

- GRUBBING NOTES:**
- ALL GRUBBING MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR AND DISPOSED OF OFF SITE OUTSIDE THE CONTRACT LIMITS IN ACCORDANCE WITH OPSS.MUN180 GENERAL SPECIFICATION FOR THE MANAGEMENT OF EXCESS MATERIALS.

- REHABILITATE BY-PASSED ROAD AREAS:**
- THIS PROVISION PROVIDES FOR THE EXCAVATION OF 200mm DEPTH OF THE EXISTING ROADWAY GRANULARS AND THE INSTALLATION OF 100mm IMPORTED TOPSOIL AND SEED AND MULCH.

- EROSION AND SEDIMENT CONTROL WORK PLAN:**
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TO THE CONTRACT ADMINISTRATOR AN EROSION AND SEDIMENT CONTROL WORK PLAN AS DETAILED IN THE CONTRACT DOCUMENTS. THE EROSION AND SEDIMENT WORK PLAN SHALL BE IMPLEMENTED PRIOR TO CONSTRUCTION.

- LANE MARKING NOTES:**
- ALL LINE PAINTING SHALL CONFORM WITH THE REQUIREMENTS OF THE ONTARIO TRAFFIC MANUAL (OTM) COMPLETE WITH REFLECTORIZING GLASS BEADS.

- RIP RAP AND GEOTEXTILE NOTES:**
- THE RIP RAP MUST BE AS PER R-50 AS NOTED IN OPSS.MUN1 1004 MATERIAL SPECIFICATION FOR AGGREGATES-MISCELLANEOUS.
  - GEOTEXTILE MATERIAL AS PER OPSS.MUN 511 NON-WOVEN.

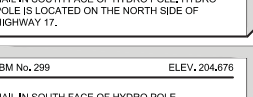
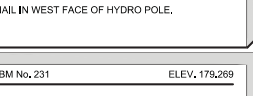
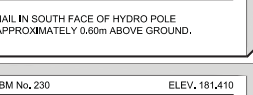
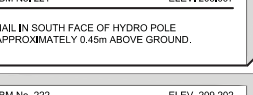
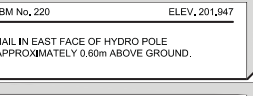
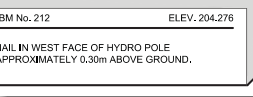
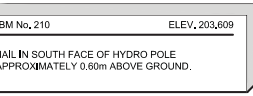
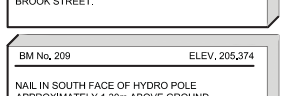
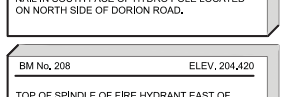
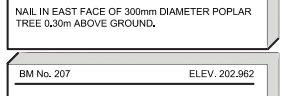
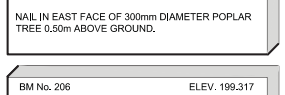
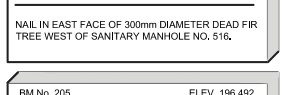
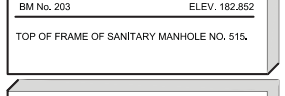
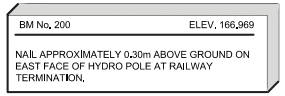
- STOCKPIILING OF SURPLUS MATERIALS AND CRUSHING OPERATIONS:**
- ALL SURPLUS EXCAVATED ROCK MATERIAL AND SURPLUS EXCAVATED EARTH MATERIAL, INCLUDING EARTH STRIPPING, WILL BE HAULED AND STOCKPIILED ON TOWN OF MATTAWIA DESIGNATED LOTS 3, 4, 5, AND 8 LOCATED APPROXIMATELY 0.3 Km FROM THE SOUTHERLY CONTRACT LIMIT AS DETAILED ON THE CONTRACT DRAWINGS OF DORION ROAD.
- AS A REQUIREMENT FOR THIS CONTRACT, THE CONTRACTOR SHALL SUPPLY, INSTALL, AND OPERATE CRUSHING EQUIPMENT AND ASSOCIATED APPURTENANCES TO PRODUCE GRANULAR 'A', GRANULAR 'B' TYPE II, AND RIP RAP FROM THE ROCK STOCKPILE(S) IN COMPLIANCE WITH CURRENT LEGISLATION FOR THE RECONSTRUCTION OF DORION ROAD.
- LOTS 3, 4, 5, AND 8 WERE PARTIALLY PREPARED BY THE TOWN OF MATTAWIA. PREPARATION INCLUDED TREE CLEARING, GRUBBING, AND GRANULAR PAD UPON WHICH THE MATERIALS ARE TO BE STOCKPIILED.
- PAD FOR AT THE CONTRACTOR BY SEPARATE ITEMS, THE CONTRACTOR SHALL COMPLETE THE PREPARATION OF LOTS 3, 4, AND 5 AS DETAILED ELSEWHERE IN THE CONTRACT DOCUMENTS INCLUDING GRUBBING, EARTH STRIPPING, AND GRANULAR PILES.
- LOTS 3, 4, 5, AND 8 ARE AVAILABLE LOTS FOR STOCKPILES AND CRUSHING OPERATIONS. AFTER THE CONTRACTOR COMPLETES THE PREPARATION OF THE LOTS, APPROXIMATELY 1.7 HECTARES WILL BE AVAILABLE FOR THE STOCKPILES AND CRUSHING OPERATIONS.
- IN ACCORDANCE WITH OPSS.MUN1 180 GENERAL SPECIFICATION FOR THE MANAGEMENT OF EXCESS MATERIALS, THE FOLLOWING FORMS ARE TO BE COMPLETED AND FILED WITH THE CONTRACT ADMINISTRATOR AS SPECIFIED IN OPSS.MUN180, SUBSECTION 180.04.01 SUBMISSION REQUIREMENTS.

- ADMINISTRATION OF PITS AND QUARRIES:**
- THE CONTRACTOR MUST ENSURE THAT ALL PITS AND QUARRIES OPERATED FOR EXTRACTION OF AGGREGATE, EARTH, OR ROCK BORROW ARE OPERATED IN ACCORDANCE WITH CURRENT LEGISLATION. ON REQUEST THE CONTRACTOR MUST PROVIDE THE CONTRACT ADMINISTRATOR WITH A COPY OF ALL PERMITS, APPROVALS, AND AGREEMENTS. THE COST OF COMPLYING WITH LEGISLATIVE REQUIREMENTS MUST BE DEEMED TO BE INCLUDED IN THE PRICES BID FOR THE VARIOUS ITEMS AND NO ADDITIONAL PAYMENT WILL BE MADE.

- PIPE CULVERT NOTES:**
- CORRUGATED STEEL PIPE (CSP) GALVANIZED
    - 400mm DIAMETER: GALVANIZED COATING, CSP PIPE, CORRUGATIONS 68mm X 13mm, 2.0mm THICKNESS.
  - CORRUGATED STEEL PIPE (CSP) PIPE CULVERTS - POLYMER LAMINATE
    - 600mm TO 800mm DIAMETER: POLYMER LAMINATE COATING, CSP PIPE, CORRUGATIONS 68mm X 13mm, 2.0mm THICKNESS.

- PRIOR TO FILLING, ALL FOUNDATION EXCAVATIONS WILL BE INSPECTED AND APPROVED BY A REPRESENTATIVE FROM THE GEOTECHNICAL CONSULTANT, THE REPRESENTATIVE FROM THE GEOTECHNICAL CONSULTANT WILL BE ON SITE AT KEY TIME PERIODS AS REQUESTED BY THE CONTRACTOR, WITH ALL COSTS ASSOCIATED SHALL BE BORNE BY THE CONTRACTOR.
- THE CULVERT BEDDING SHALL BE AS SPECIFIED ON THE CONTRACT DRAWINGS, COVER SHALL BE A MINIMUM OF 300mm OF GRANULAR 'A' SURROUNDING THE PIPE AND GRANULAR 'A' BACKFILL COMPACTED TO 100% MAXIMUM DRY DENSITY (MDD) AND CONFORMING TO DIMENSIONS IN OPSS 802.013.
- THE GRANULAR COVER MATERIAL SHALL BE PLACED CONCURRENTLY ON BOTH SIDES OF THE CULVERT SUCH THAT THE DIFFERENCE IN LEVELS OF COVER ON THE TWO SIDES AT ANY TRAVERSE SECTION DOES NOT EXCEED 0.2 METERS.
- A 100mm THICKNESS OF THE GRANULAR 'A' BEDDING LAYER THAT IS IN DIRECT CONTACT WITH THE INVERT LEVEL SHOULD BE LEFT UNCOMPACTED AND BE PRE-SHAPED IN THE TRAVERSE DIRECTION TO ACCOMMODATE THE CURVED INLET.
- PIPE CULVERT SHALL BE SET ON GRADE HAVING A CAMBER OF NOT LESS THAN ONE HALF OF ONE PERCENT TIMES THE LENGTH OF THE PIPE.

- TYPES OF MARKINGS**
- | NAME OF LINE    | DIMENSIONS (m)                            | USE  |
|-----------------|---|--|
| SOLID           | 0.10                                      | (YELLOW) DIRECTIONAL DIVIDING LINES<br>(WHITE) EDGE LINES      |
| BROKEN          | 0.10                                      | DIRECTIONAL DIVIDING LINES (WHITE)<br>CONTINUITY LINES (WHITE) |
| BROKEN          | 0.10                                      | DIRECTIONAL DIVIDING LINES (WHITE)<br>CONTINUITY LINES (WHITE) |
| STOP            | 0.60                                      | INTERSECTION STOP LINES (WHITE)                                |
| DIRECTION ARROW | 3m ARROW (WHITE)<br>OTM BOOK II FIGURE 53 | N.T.S.   |



PROJECT CONTROL			
POINT I.D.	NORTHING	EASTING	ELEVATION
TSP 1	5131569.569	678136.621	180.595
TSP 2	5131383.617	678147.055	202.365
TSP 3	5131321.953	678122.848	204.060
TSP 4	5131252.996	677930.643	204.582
TSP 5	5131141.209	677685.067	204.640
TSP 6	5131090.631	677520.868	203.091
TSP 7	5130984.005	677315.093	203.746
TSP 8	5131396.301	677401.422	181.564
TSP 9	5131493.361	677337.663	172.434
TSP 30	5131210.198	677827.623	203.311
TSP 31	5131290.510	677997.625	204.227
TSP 32	5131380.056	678114.795	204.201
TSP 33	5131437.859	678131.161	200.387
TSP 34	5131564.323	678094.628	186.493
TSP 40	5131597.922	678181.760	180.534
TSP 41	5131616.708	678095.402	176.248
TSP 42	5131648.739	677937.016	168.770

THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWING, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM THEMSELVES OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

PROPERTY LINE INFORMATION ON THE DRAWINGS ARE APPROXIMATE AND HAVE NOT BEEN VERIFIED BY AN ONTARIO LAND SURVEYOR (OLS). THE ACCURACY OF THE POSITION (S) OF SUCH PROPERTY LINES IS NOT GUARANTEED.

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No.	DATE	BY	REVISION COMMENTS
4	2021-11-01	RRS/GAD	ISSUED TO MTO FOR 90% REVIEW
3	2021-10-25	RRS/GAD	ISSUED TO TOWN FOR 90% REVIEW
2	2021-04-19	RRS/GAD	ISSUED TO TOWN FOR 60% REVIEW
1	2021-01-08	RRS/GAD	ISSUED TO TOWN FOR 30% REVIEW

No.	REVISION COMMENTS
4	ISSUED TO MTO FOR 90% REVIEW
3	ISSUED TO TOWN FOR 90% REVIEW
2	ISSUED TO TOWN FOR 60% REVIEW
1	ISSUED TO TOWN FOR 30% REVIEW

**TOWN OF MATTAWIA  
DORION ROAD  
RECONSTRUCTION  
MATTAWIA, ONTARIO  
GENERAL INFORMATION**

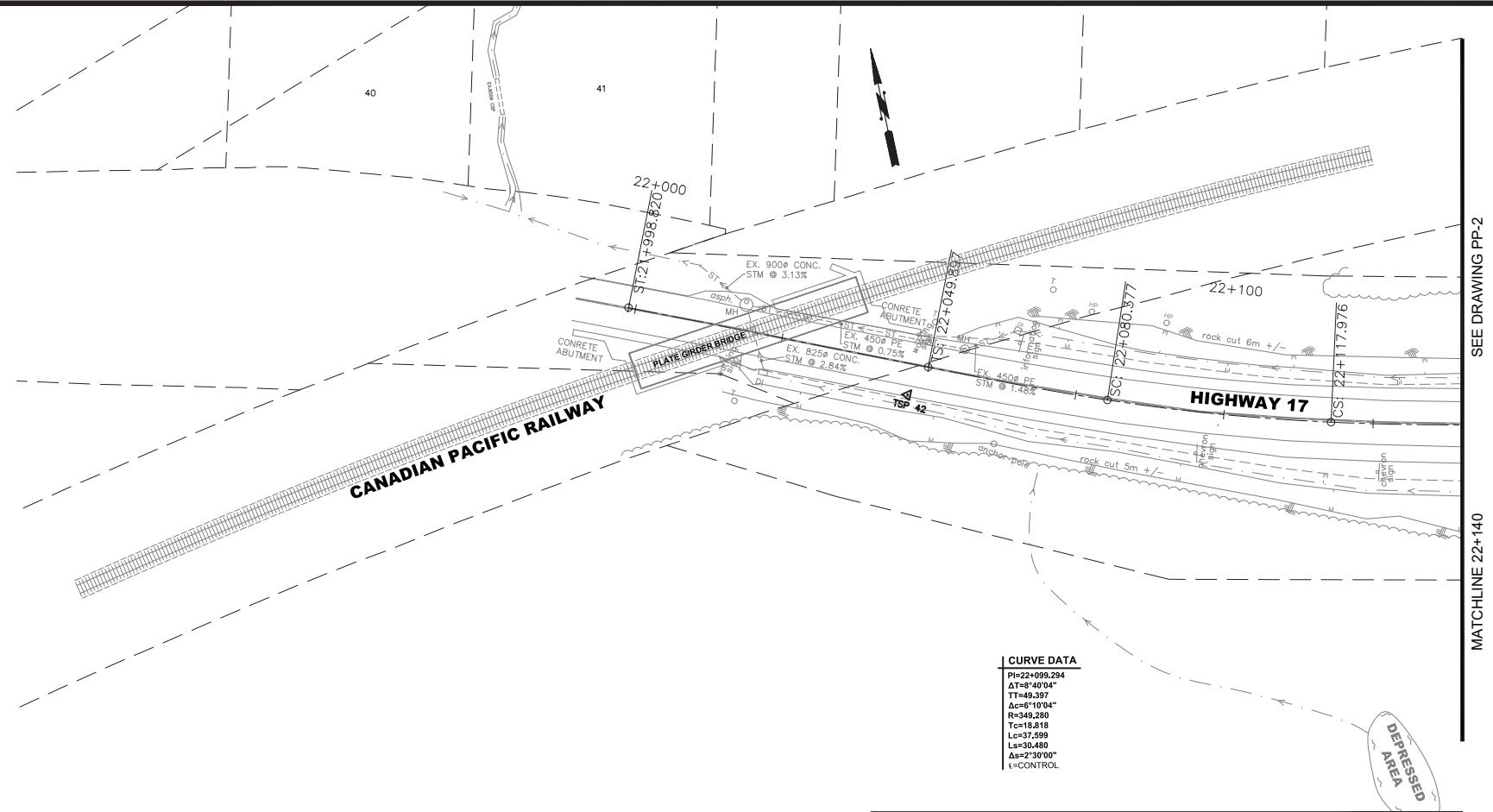
**Jp2g Consultants Inc.**  
ENGINEERS • PLANNERS • PROJECT MANAGERS

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1150 MORRISON DRIVE, SUITE 410, OTTAWA, ON  
Phone: (613) 628-7600, Fax: (613) 628-2600

DESIGNED: RRS	PROJECT No.: 20-1046D
DRAFTED: GAD	REVISION DATE: 2021-11-01
CHECKED: JEH	APPROVED: NSC
SCALE: AS SHOWN	CLIENT REF No.: XX-XXXX-XX

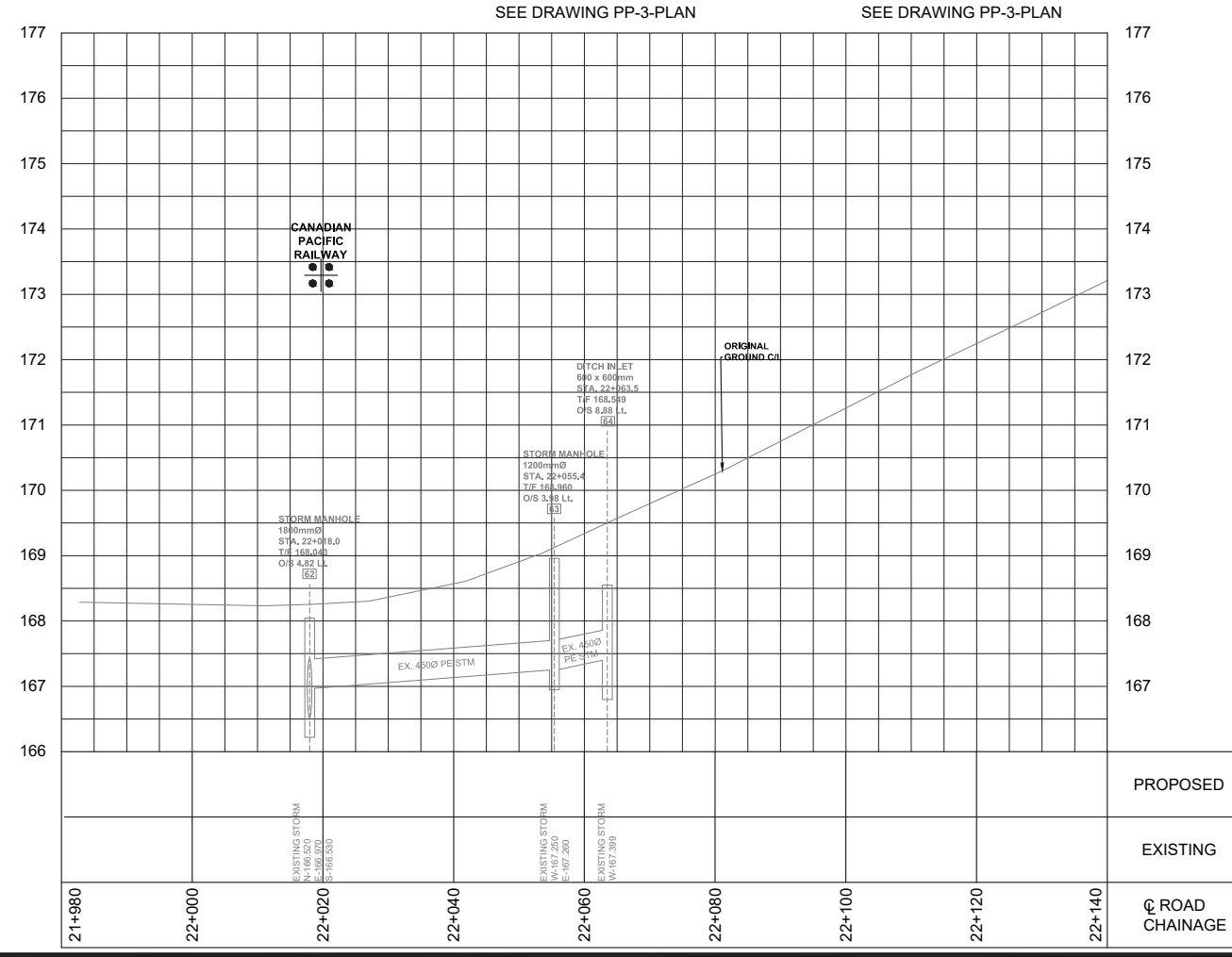
GI-1

P:\01 - MATTAWA - DORION ROAD RECONSTRUCTION\DRAWINGS\PP-3-PLAN AND PROFILE\PP-3-PLAN AND PROFILE.dwg, 2021-11-01 10:00:00 AM, J. J. J.



**CURVE DATA**

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ΔC=6°10'04"
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TC=18.218
LC=37.599
LS=31.490
ΔS=2°30'00"
L=CONTROL



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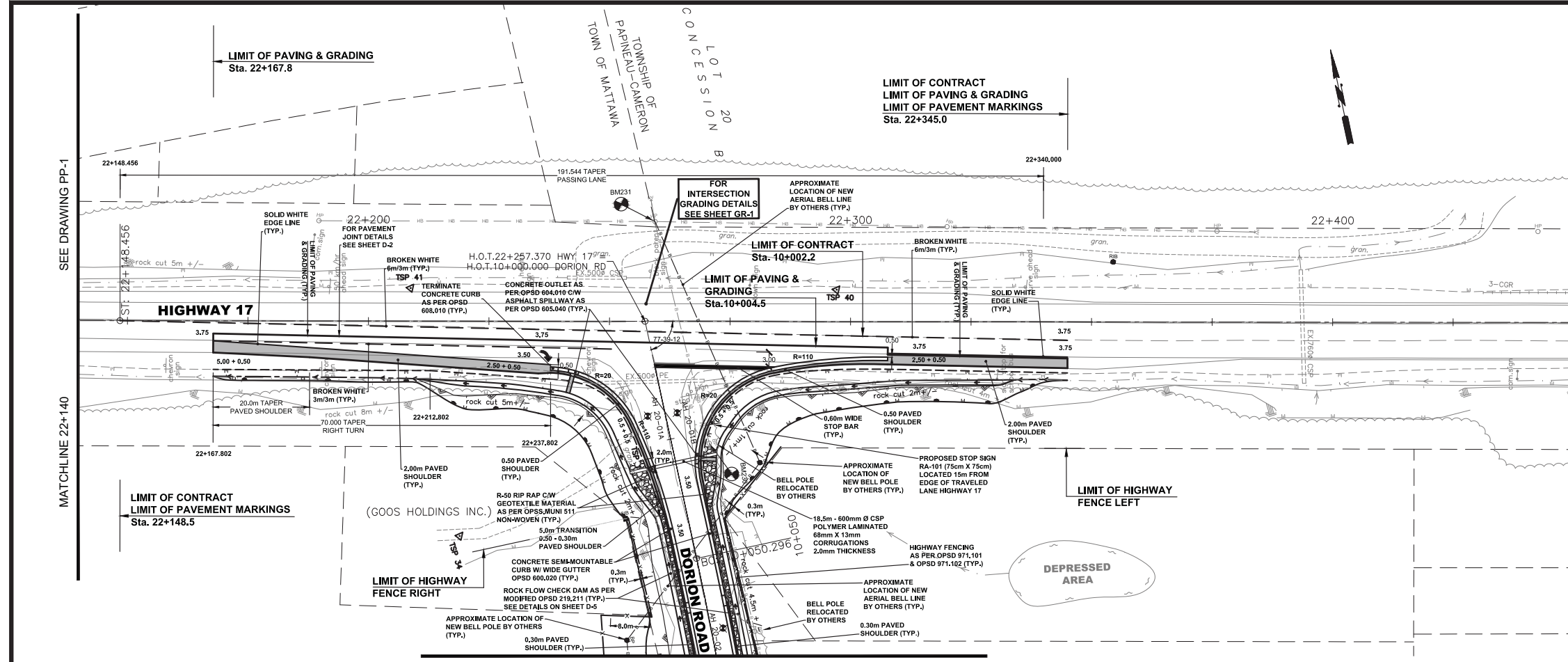
No.	YYYY-MM-DD	ENGR/RT	REVISION COMMENTS
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**TOWN OF MATTAWA**  
**DORION ROAD**  
**RECONSTRUCTION**  
**MATTAWA, ONTARIO**  
 ~  
**PLAN & PROFILE**  
**HIGHWAY 17**  
**Sta.22+000 TO Sta.22+140**

**Jp2g Consultants Inc.**  
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 12 INTERNATIONAL DRIVE, PEMBROKE, ON  
 Phone: (613) 755-2507, Fax: (613) 755-4513  
 1150 MORRISON DRIVE, SUITE 410, OTTAWA, ON  
 Phone: (613) 662-7600, Fax: (613) 662-2600

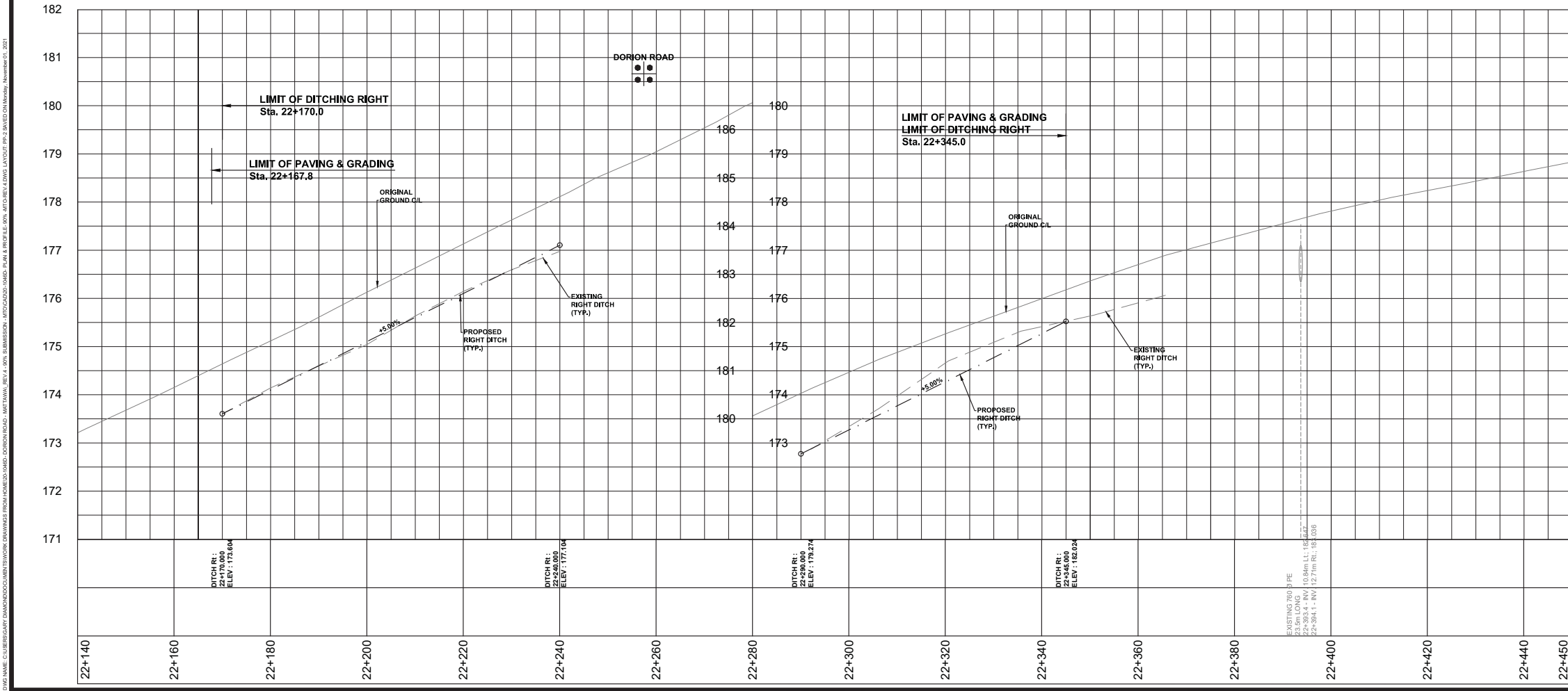
DESIGNED: RRS	PROJECT No.: 20-1046D
DRAFTED: GAD	REVISION DATE: 2021-11-01
CHECKED: JEH	APPROVED: NSC
SCALE: H=1:500, V=1:50	REVISION No.: 4
	CLIENT REF No.: XX-XXXX-XX





MATCHLINE 22+140

MATCHLINE 22+450



182

181

180

179

178

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THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWING, AND WHERE SHOWN THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM THEMSELVES OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

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No.	DATE	BY	REVISION COMMENTS
4	2021-11-01	RRSGAD	ISSUED TO MTO FOR 90% REVIEW
3	2021-10-25	RRSGAD	ISSUED TO TOWN FOR 90% REVIEW
2	2021-04-19	RRSGAD	ISSUED TO TOWN FOR 60% REVIEW
1	2021-01-08	RRSGAD	ISSUED TO TOWN FOR 30% REVIEW

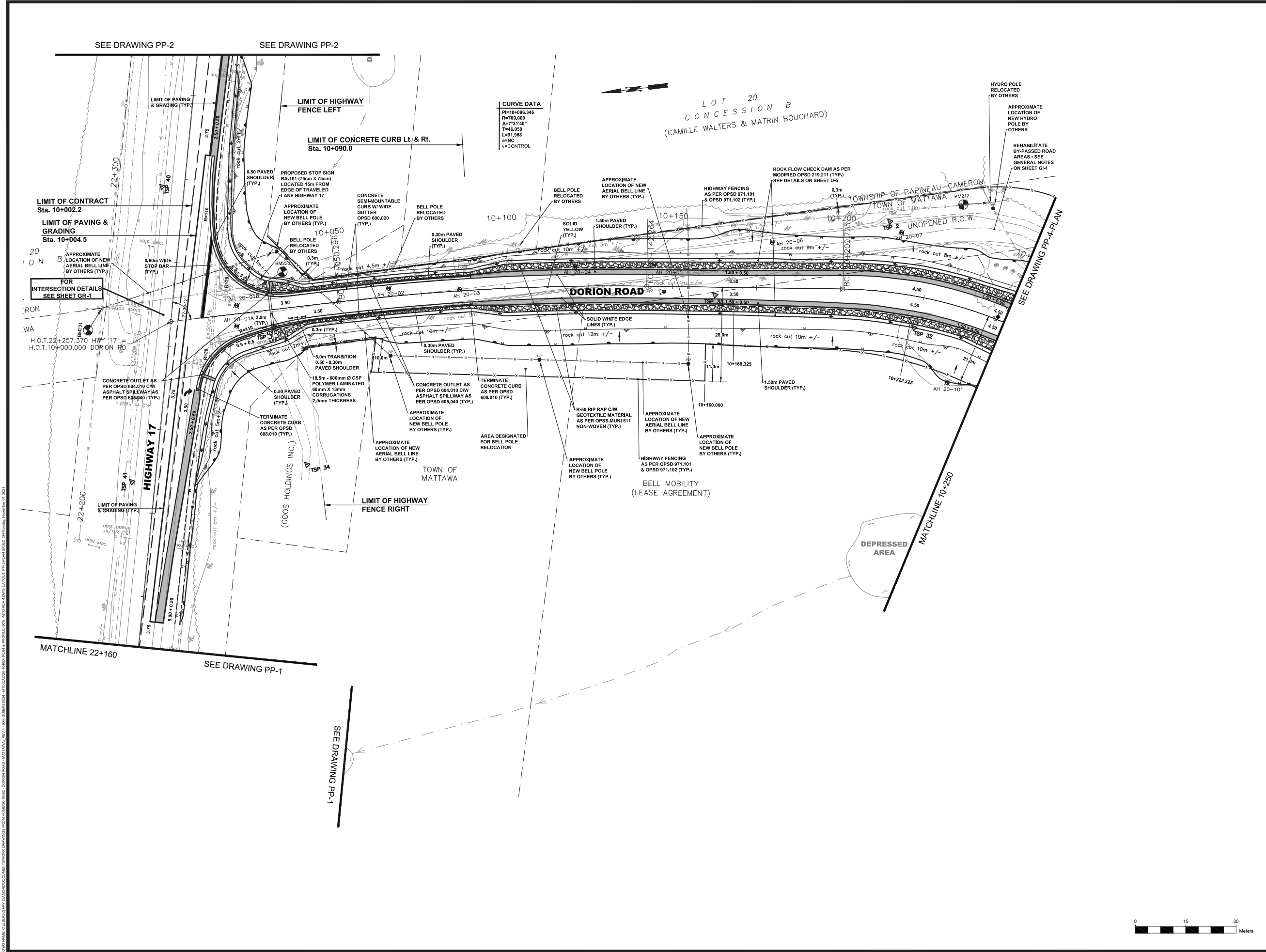
**TOWN OF MATTAWA**  
**DORION ROAD**  
**RECONSTRUCTION**  
**MATTAWA, ONTARIO**  
 ~  
**PLAN & PROFILE**  
**HIGHWAY 17**  
**Sta.22+140 TO Sta.22+450**

**J2jP2g Consultants Inc.**  
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12 INTERNATIONAL DRIVE, PEMBRIDGE, ON  
 Phone: (913)25-2507, Fax: (913)25-4513  
 1150 MORRISON DRIVE, SUITE 410, OTTAWA, ON  
 Phone: (613)825-7600, Fax: (613)825-2600

DESIGNED: RRS	PROJECT No.: 20-1046D
DRAFTED: GAD	REVISION DATE: 2021-11-01
CHECKED: JEH	APPROVED: NSC
SCALE: H=1:500, V=1:50	REVISION No.: 4
	CLIENT REF No.: XX-XXXX-XX





**CURVE DATA**  
 PI=10+096.346  
 R=700.000  
 Δ=7°31'40"  
 T=46.050  
 L=91.968  
 e=NC  
 l=CONTROL

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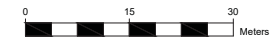
No.	DATE	ENG/GRFT	REVISION COMMENTS
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2	2021-04-19	RRS/GAD	ISSUED TO TOWN FOR 60% REVIEW
1	2021-01-08	RRS/GAD	ISSUED TO TOWN FOR 30% REVIEW

**TOWN OF MATTAWA**  
**DORION ROAD**  
**RECONSTRUCTION**  
**MATTAWA, ONTARIO**  
 ~  
**PLAN**  
**DORION ROAD**  
**Sta.10+000 TO Sta.10+250**

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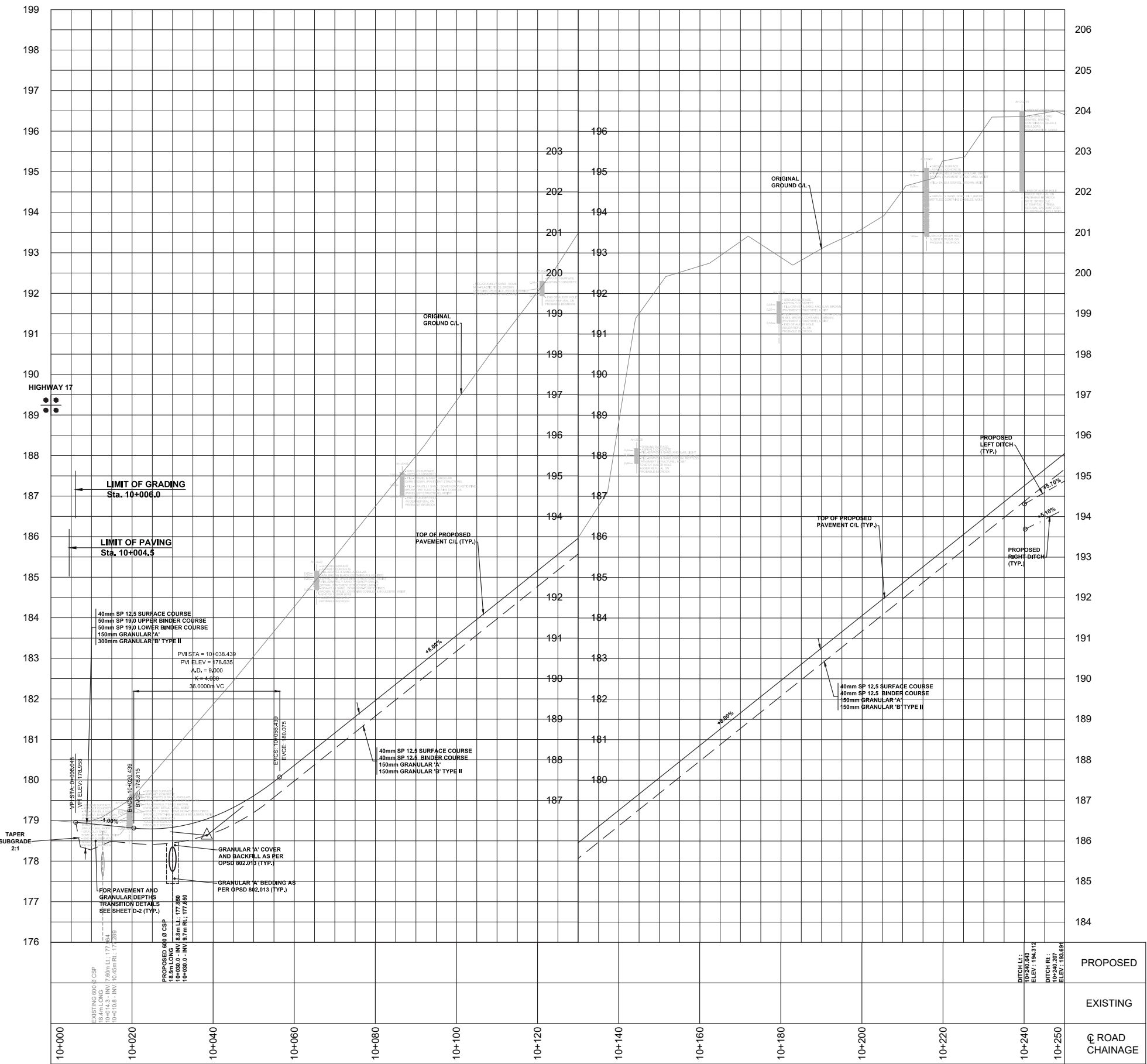
12 INTERNATIONAL DRIVE, PEMBROKE, ON  
 Phone: (613) 755-2507, Fax: (613) 755-4513  
 1150 MORRISON DRIVE, SUITE 410, OTTAWA, ON  
 Phone: (613) 928-7600, Fax: (613) 928-2600

DESIGNED: RRS	PROJECT No.: 20-1046D
DRAFTED: GAD	REVISION DATE: 2021-11-01
CHECKED: JEH APPROVED: NSC	REVISION No.: 4
SCALE: H=1:500	CLIENT REF No.: XX-XXXX-XX



**PP-3-PLAN**

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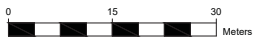
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1	2021-01-08	RRSGAD	ISSUED TO TOWN FOR 30% REVIEW

**TOWN OF MATTAWA**  
**DORION ROAD**  
**RECONSTRUCTION**  
**MATTAWA, ONTARIO**  
 ~  
**PROFILE**  
**DORION ROAD**  
**Sta.10+000 TO Sta.10+250**

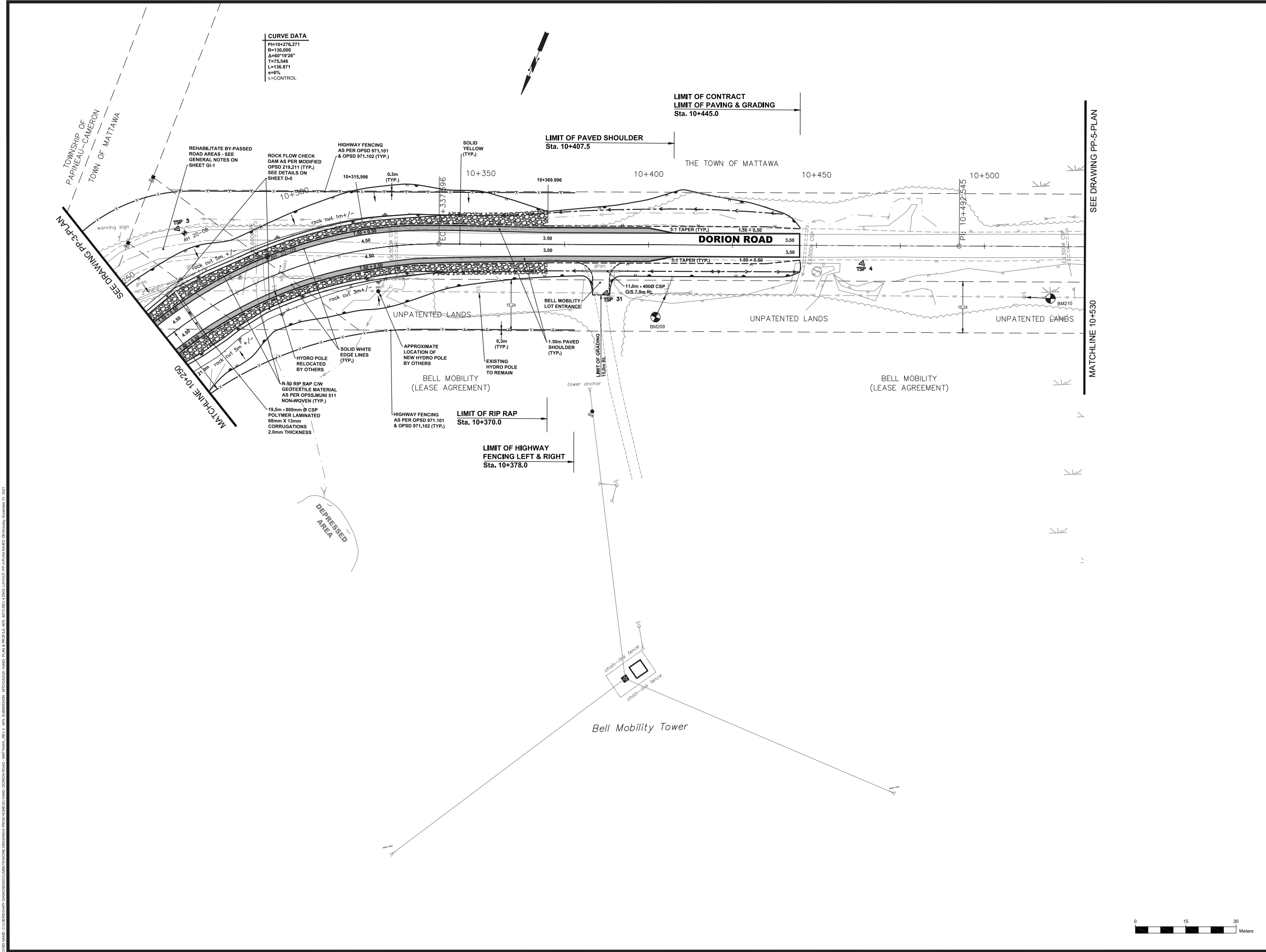


DESIGNED: RRS	PROJECT No.: 20-1046D
DRAFTED: GAD	REVISION DATE: 2021-11-01
CHECKED: JEH APPROVED: NSC	REVISION No.: 4
SCALE: H=1:500, V=1:50	CLIENT REF No.: XX-XXXX-XX



**PP-3-PROF**

**CURVE DATA**  
 PI=10+276.271  
 R=130,000  
 Δ=60°19'26"  
 T=75.546  
 L=136.871  
 e=6%  
 v=CONTROL



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No.	YYYY-MM-DD	ENGR/RT	REVISION COMMENTS

**TOWN OF MATTAWA**  
**DORION ROAD**  
**RECONSTRUCTION**  
**MATTAWA, ONTARIO**  
 ~  
**PLAN & PROFILE**  
**DORION ROAD**  
**Sta.10+250 TO Sta.10+530**

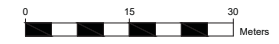
**Jp2g Consultants Inc.**  
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 1150 MORRISON DRIVE, SUITE 410, OTTAWA, ON  
 Phone: (613) 928-7600, Fax: (613) 928-2600

DESIGNED: RRS	PROJECT No.: 20-1046D
DRAFTED: GAD	REVISION DATE: 2021-11-01
CHECKED: JEH APPROVED: NSC	REVISION No.: 4
SCALE: H=1:500	CLIENT REF No.: XX-XXXX-XX

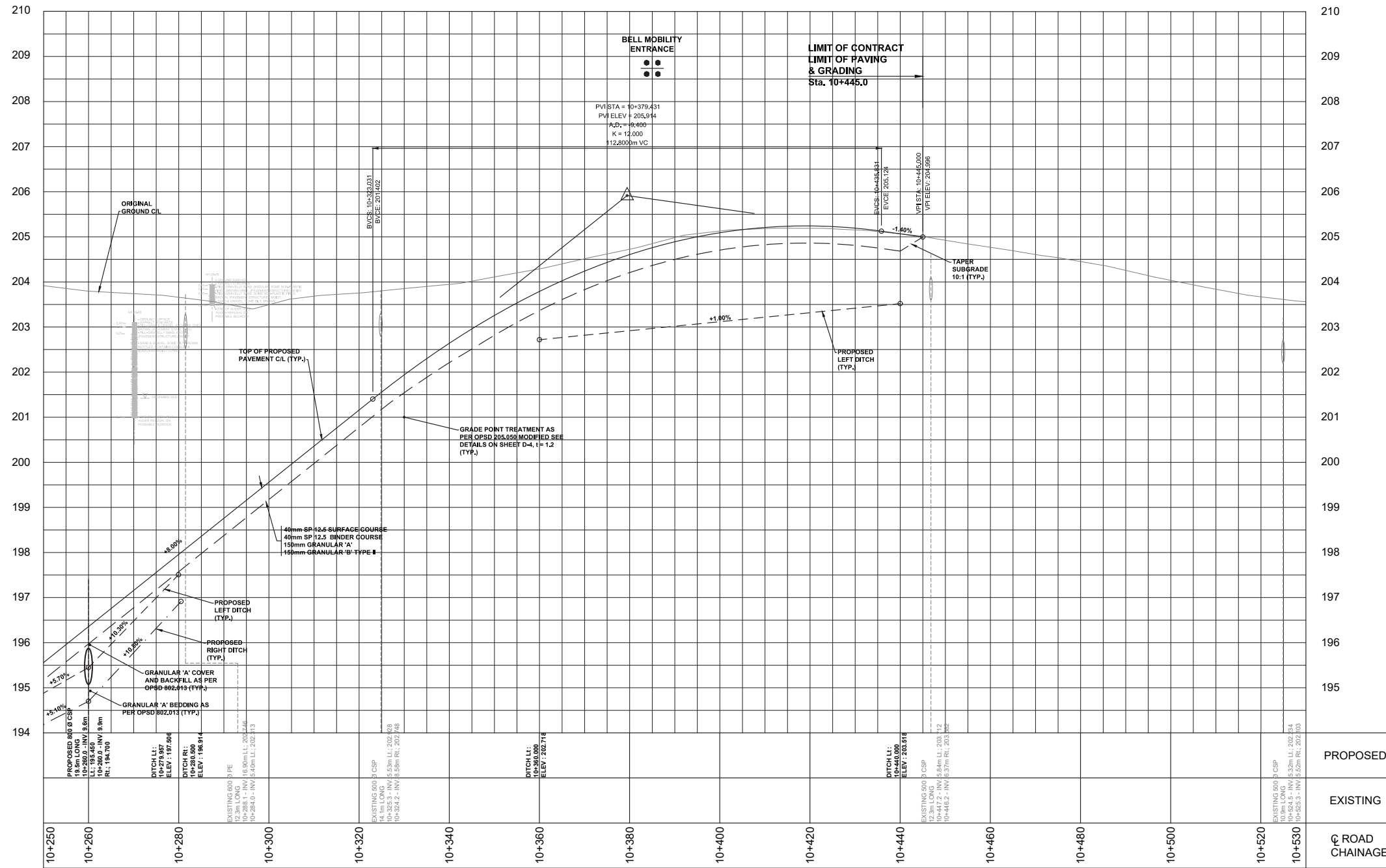
**PP-4-PLAN**

20-1046D-PLAN & PROFILE-90%-MTO-REV 4.DWG



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P:\01 - MATTAWA - DORION ROAD RECONSTRUCTION\DWG\PP-4-PROF.DWG  
 DATE: 2021-11-01 10:52:15 AM  
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 CHECKED: JEH  
 APPROVED: NSC  
 PROJECT: TOWN OF MATTAWA, DORION ROAD RECONSTRUCTION  
 SHEET: PP-4-PROF (PLAN & PROFILE)  
 SCALE: H=1:500, V=1:50  
 PROJECT NO.: 20-1046D  
 REVISION DATE: 2021-11-01  
 REVISION NO.: 4  
 CLIENT REF NO.: XX-XXXX-XX



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**TOWN OF MATTAWA**  
**DORION ROAD**  
**RECONSTRUCTION**  
**MATTAWA, ONTARIO**  
 ~  
**PLAN & PROFILE**  
**DORION ROAD**  
**Sta.10+250 TO Sta.10+530**

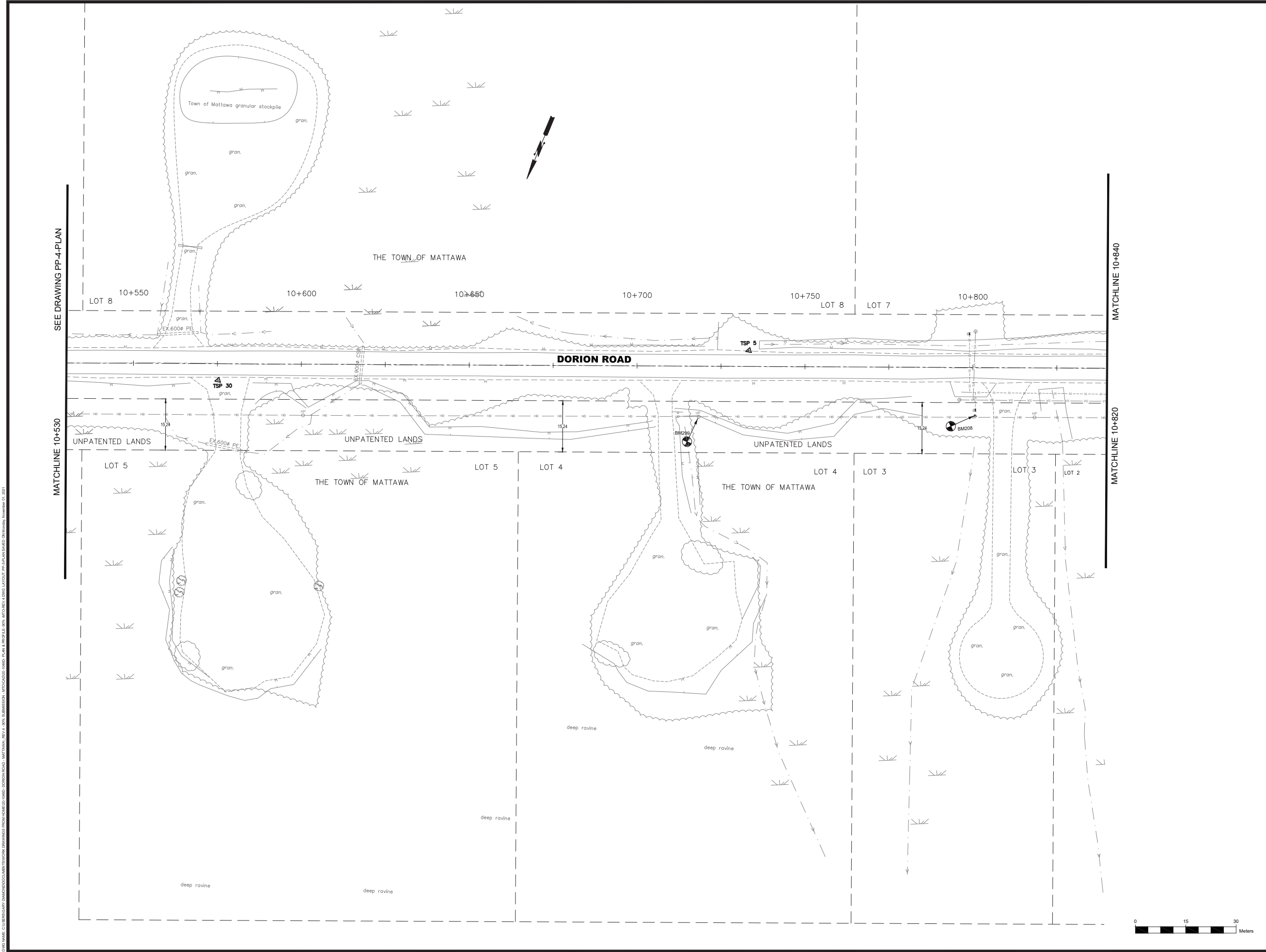
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12 INTERNATIONAL DRIVE, PEMBROKE, ON  
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 Phone: (613)825-7600, Fax: (613)825-2600

DESIGNED: RRS	PROJECT No.: 20-1046D
DRAFTED: GAD	REVISION DATE: 2021-11-01
CHECKED: JEH	APPROVED: NSC
SCALE: H=1:500, V=1:50	CLIENT REF No.: XX-XXXX-XX

PP-4-PROF





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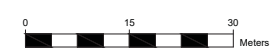
No.	YYYY-MM-DD	ENGR/RT	REVISION COMMENTS
4	2021-11-01	RRS/GAD	ISSUED TO MTO FOR 90% REVIEW
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2	2021-04-19	RRS/GAD	ISSUED TO TOWN FOR 60% REVIEW
1	2021-01-08	RRS/GAD	ISSUED TO TOWN FOR 30% REVIEW

**TOWN OF MATTAWA**  
**DORION ROAD**  
**RECONSTRUCTION**  
**MATTAWA, ONTARIO**  
 ~  
**PLAN & PROFILE**  
**DORION ROAD**  
**Sta.10+530 TO Sta.10+840**

**Jp2g Consultants Inc.**  
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 12 INTERNATIONAL DRIVE, PEMBROKE, ON  
 Phone: (613)75-2507, Fax: (613)75-4513  
 1150 MORRISON DRIVE, SUITE 410, OTTAWA, ON  
 Phone: (613)625-7600, Fax: (613)625-2600

DESIGNED: RRS	PROJECT No.: 20-1046D
DRAFTED: GAD	REVISION DATE: 2021-11-01
CHECKED: JEH APPROVED: NSC	REVISION No.: 4
SCALE: H=1:500	CLIENT REF No.: XX-XXXX-XX

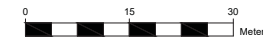
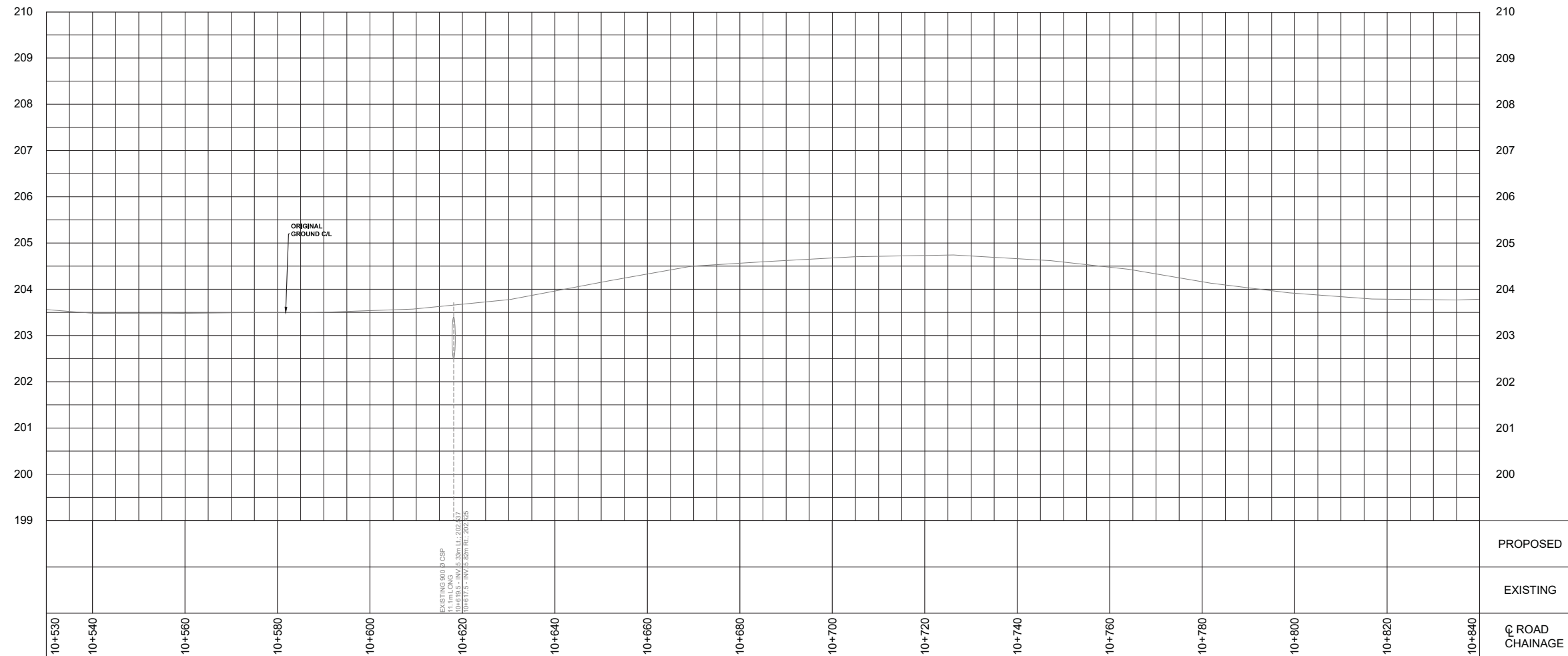
**PP-5-PLAN**



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QUANTITY LIST, CONSTRUCTION AND OTHER DETAILS TO BE PROVIDED BY THE CLIENT. SEE DRAWING PP-5-PROFILE FOR DETAILS OF THE PROPOSED ROADWAY. THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWING, AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM THEMSELVES OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

P:\01 - MATTAWA - C:\BENTLEY\DRAWING\DWG\2021\10-1046D\PP-5-PROF.DWG  
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 PLOT SCALE: 1:1  
 PLOT SHEET: 1 OF 1  
 PLOT TITLE: PP-5-PROF  
 PLOT USER: JHEH



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4	2021-11-01	RRSIGAD	ISSUED TO MTO FOR 90% REVIEW
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**TOWN OF MATTAWA**  
**DORION ROAD**  
**RECONSTRUCTION**  
**MATTAWA, ONTARIO**  
 ~  
**PLAN & PROFILE**  
**DORION ROAD**  
**Sta.10+530 TO Sta.10+820**

**Jp2g Consultants Inc.**  
 ENGINEERS • PLANNERS • PROJECT MANAGERS

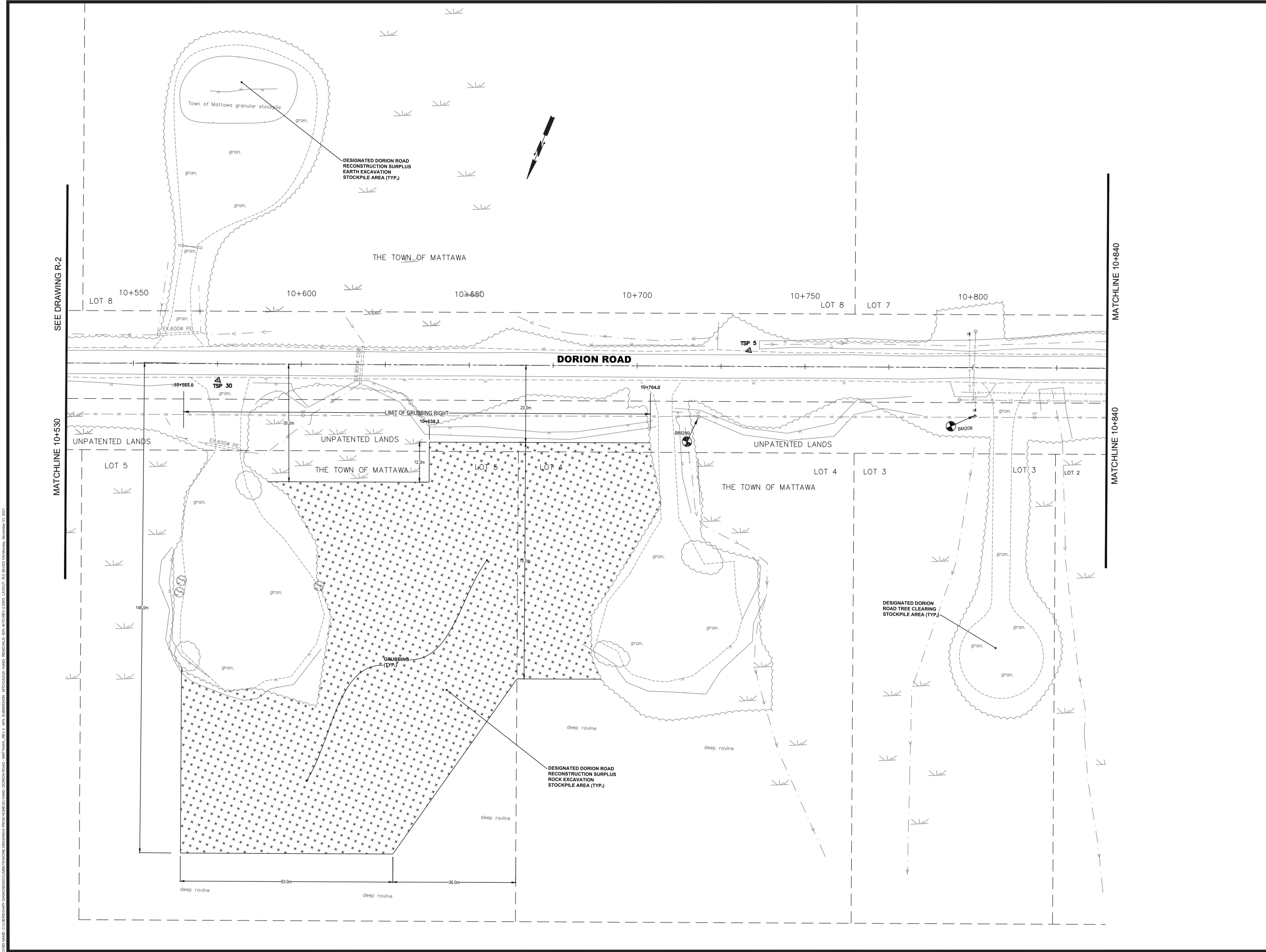
12 INTERNATIONAL DRIVE, PEMBROKE, ON  
 Phone: (613) 755-2507, Fax: (613) 755-4513  
 1150 MORRISON DRIVE, SUITE 410, OTTAWA, ON  
 Phone: (613) 625-7600, Fax: (613) 625-2600

DESIGNED: RRS	PROJECT No.: 20-1046D
DRAFTED: GAD	REVISION DATE: 2021-11-01
CHECKED: JEH	APPROVED: NSC
SCALE: H=1:500, V=1:50	REVISION No.: 4
	CLIENT REF No.: XX-XXXX-XX

**PP-5-PROF**







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- GENERAL NOTES:**
1. OFFSET DISTANCES TO GRUBBING LIMITS ARE MEASURED FROM THE NEW CENTERLINE UNLESS OTHERWISE SHOWN.

No.	YYYY-MM-DD	ENG/GRFT	REVISION COMMENTS
4	2021-11-01	RRS/GAD	ISSUED TO MTO FOR 90% REVIEW
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1	2021-01-08	RRS/GAD	ISSUED TO TOWN FOR 30% REVIEW

No.	YYYY-MM-DD	ENG/GRFT	REVISION COMMENTS

## TOWN OF MATTAWA DORION ROAD RECONSTRUCTION MATTAWA, ONTARIO

### REMOVALS

**Jp2g Consultants Inc.**  
ENGINEERS • PLANNERS • PROJECT MANAGERS

12 INTERNATIONAL DRIVE, PEMBROKE, ON  
Phone: (613) 755-2507, Fax: (613) 755-4513  
1150 MORRISON DRIVE, SUITE 410, OTTAWA, ON  
Phone: (613) 628-7600, Fax: (613) 628-2600

DESIGNED: RRS	PROJECT No.: 20-1046D
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CHECKED: JEH	APPROVED: NSC
SCALE: H=1:500	REVISION No.: 4
	CLIENT REF No.: XX-XXXX-XX

0 15 30 Meters

**R-3**

20-1046D-REMOVALS-90% MTO-REV 4.DWG

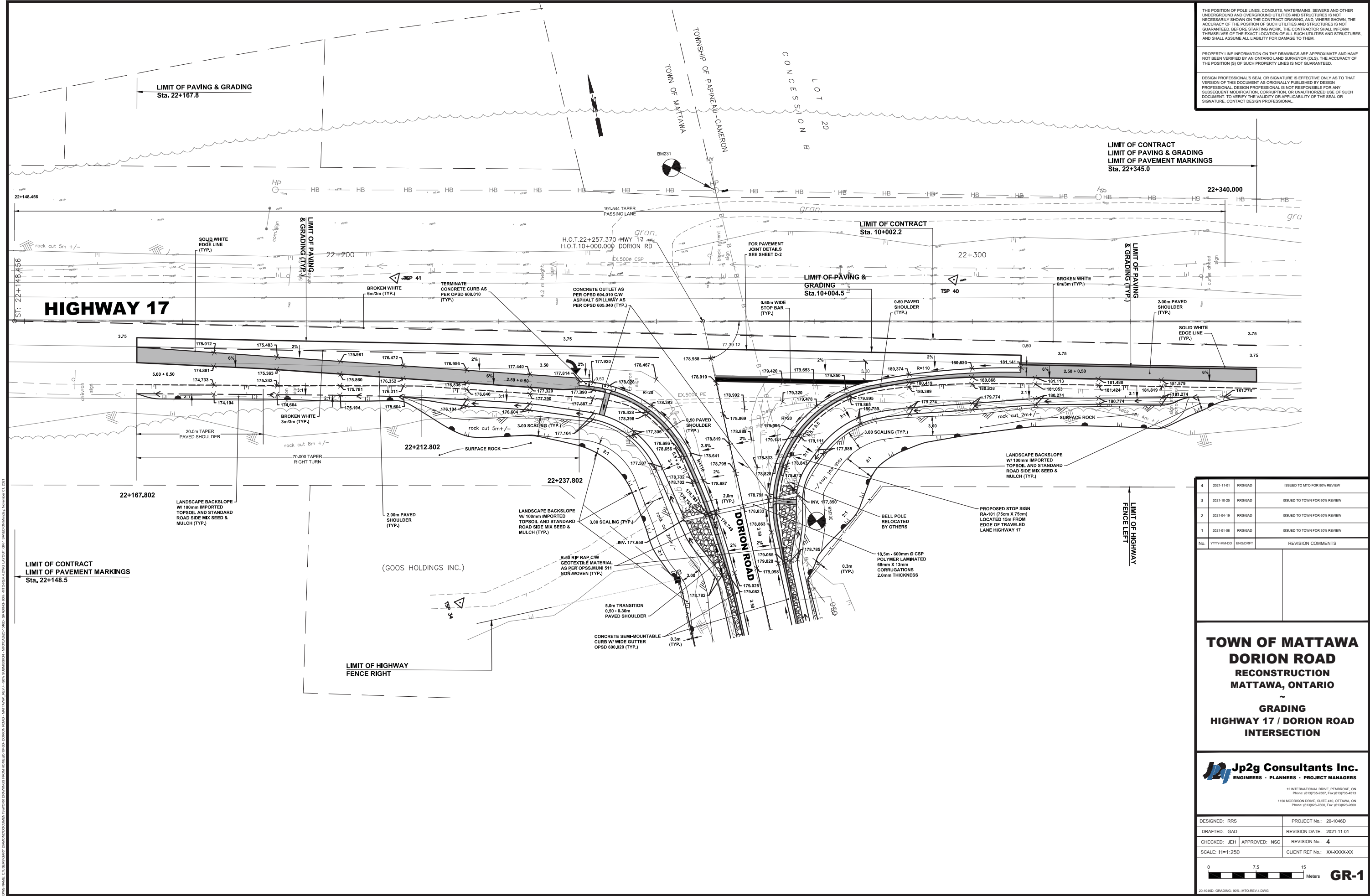
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DRAWING NO: 20-1046D-REMOVALS-90% MTO-REV 4.DWG; PROJECT NO: 20-1046D; CLIENT: TOWN OF MATTAWA; DATE: 2021-11-01; SCALE: 1:500; SHEET: 1 OF 1

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No.	YYYY-MM-DD	ENGR/RT	REVISION COMMENTS
4	2021-11-01	RRS/GAD	ISSUED TO MTO FOR 90% REVIEW
3	2021-10-25	RRS/GAD	ISSUED TO TOWN FOR 90% REVIEW
2	2021-04-19	RRS/GAD	ISSUED TO TOWN FOR 60% REVIEW
1	2021-01-08	RRS/GAD	ISSUED TO TOWN FOR 30% REVIEW

**TOWN OF MATTAWA  
DORION ROAD  
RECONSTRUCTION  
MATTAWA, ONTARIO**

~

**GRADING  
HIGHWAY 17 / DORION ROAD  
INTERSECTION**

**Jp2g Consultants Inc.**  
ENGINEERS • PLANNERS • PROJECT MANAGERS

12 INTERNATIONAL DRIVE, PEMBROKE, ON  
Phone: (613)755-2507, Fax: (613)755-4513  
1150 MORRISON DRIVE, SUITE 410, OTTAWA, ON  
Phone: (613)628-7600, Fax: (613)628-2600

DESIGNED: RRS	PROJECT No.: 20-1046D
DRAFTED: GAD	REVISION DATE: 2021-11-01
CHECKED: JEH	APPROVED: NSC
SCALE: H=1:250	CLIENT REF No.: XX-XXXX-XX



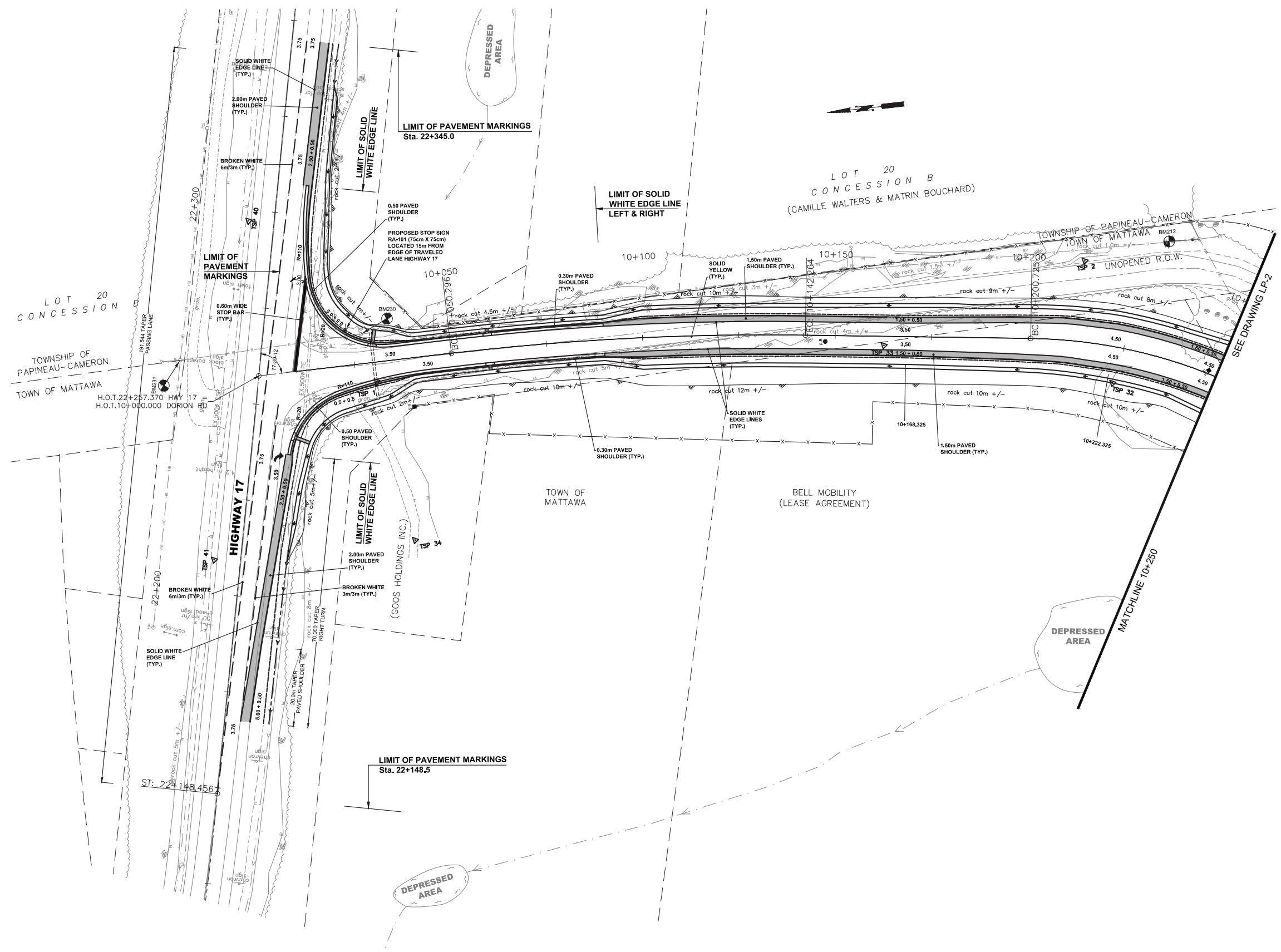
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- GENERAL NOTES:**
1. OFFSET DISTANCES TO GRUBBING LIMITS ARE MEASURED FROM THE NEW CENTERLINE UNLESS OTHERWISE SHOWN.



No.	DATE	BY	REVISION COMMENTS
4	2021-11-01	RRS/GAD	ISSUED TO MTO FOR 90% REVIEW
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2	2021-04-19	RRS/GAD	ISSUED TO TOWN FOR 60% REVIEW
1	2021-01-08	RRS/GAD	ISSUED TO TOWN FOR 30% REVIEW
No.	YYYY-MM-DD	ENGR/GRT	REVISION COMMENTS

**TOWN OF MATTAWA  
DORION ROAD  
RECONSTRUCTION  
MATTAWA, ONTARIO  
PAVEMENT MARKINGS**

**Jp2g Consultants Inc.**  
ENGINEERS • PLANNERS • PROJECT MANAGERS  
12 INTERNATIONAL DRIVE, PEMBROKE, ON  
Phone: (613) 755-2507, Fax: (613) 755-4513  
1150 MORRISON DRIVE, SUITE 410, OTTAWA, ON  
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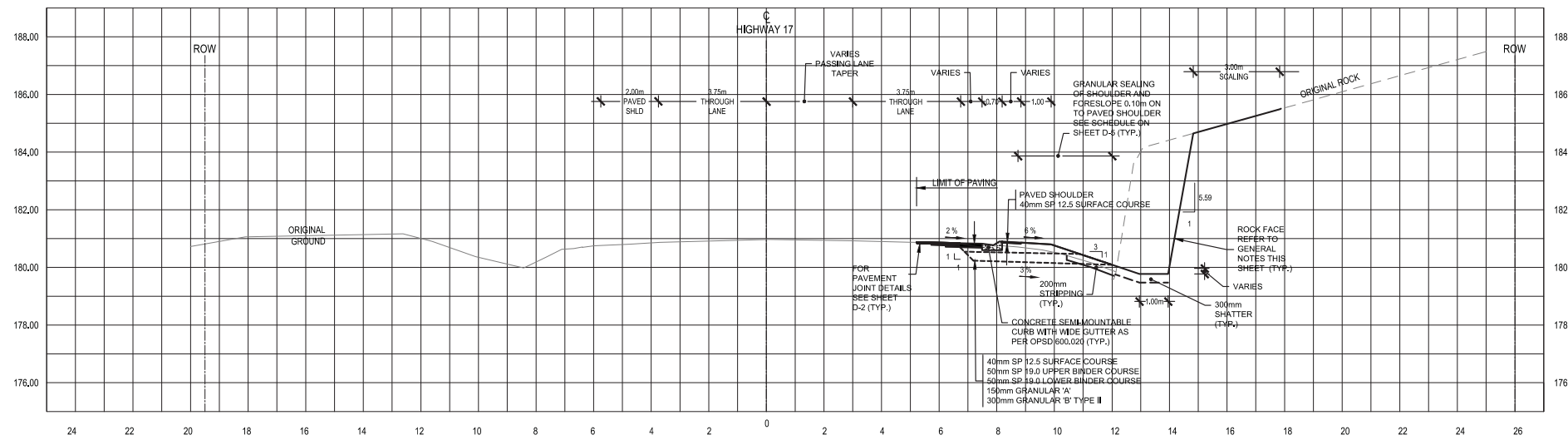
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DRAFTED: GAD	REVISION DATE: 2021-11-01
CHECKED: JEH APPROVED: NSC	REVISION No.: 4
SCALE: H=1:500	CLIENT REF No.: XX-XXXX-XX



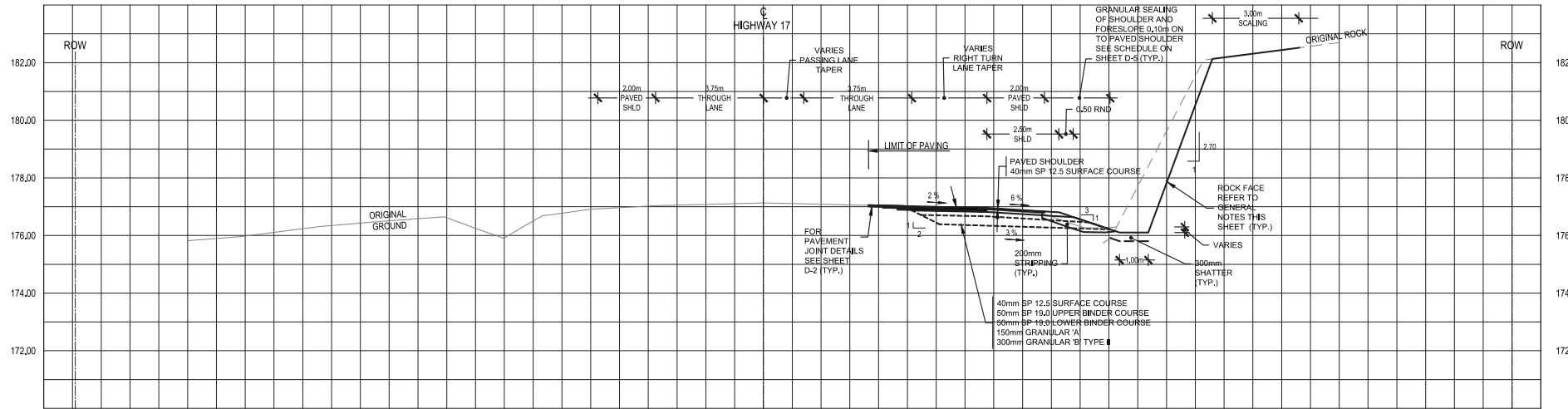
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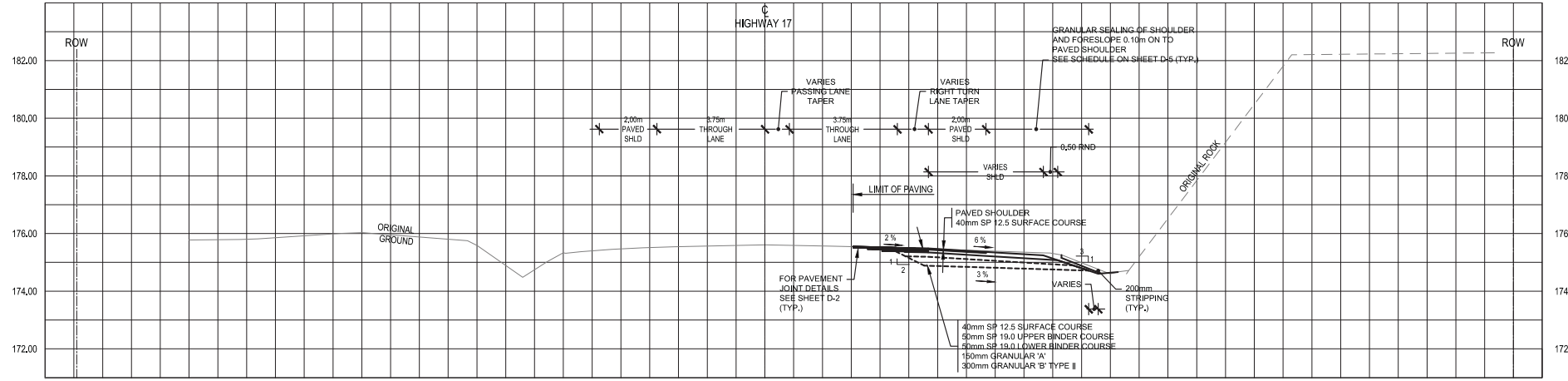




TYPICAL SECTION Sta. 22+300.0  
HIGHWAY 17  
SCALE 1:100



TYPICAL SECTION Sta. 22+220.0  
HIGHWAY 17  
SCALE 1:100



TYPICAL SECTION Sta. 22+190.0  
HIGHWAY 17  
SCALE 1:100

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- GENERAL NOTES:**
- TYPICAL SECTIONS ARE TO BE READ IN CONJUNCTION WITH OPSD SERIES 200 DRAWINGS.
  - JOINT DETAILS:
    - (i) PROVIDE STRAIGHT, NEAT SAW CUTS OF ASPHALT
    - (ii) TACK COAT ALL SURFACES
  - ROCK FACE:
    - ROCK FACE BATTER AS RECOMMENDED BY GOLDER GEOTECHNICAL INVESTIGATION REPORT DATED JUNE 2021:
    - (i) THE WEST SIDE OF DORION ROAD 2.70 V : 1 H BATTER
    - (ii) THE EAST SIDE OF DORION ROAD 5.59 V : 1 H BATTER

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**TOWN OF MATTAWA  
DORION ROAD  
RECONSTRUCTION  
MATTAWA, ONTARIO**

~

**HIGHWAY 17  
TYPICAL SECTIONS**

**J2p2g Consultants Inc.**  
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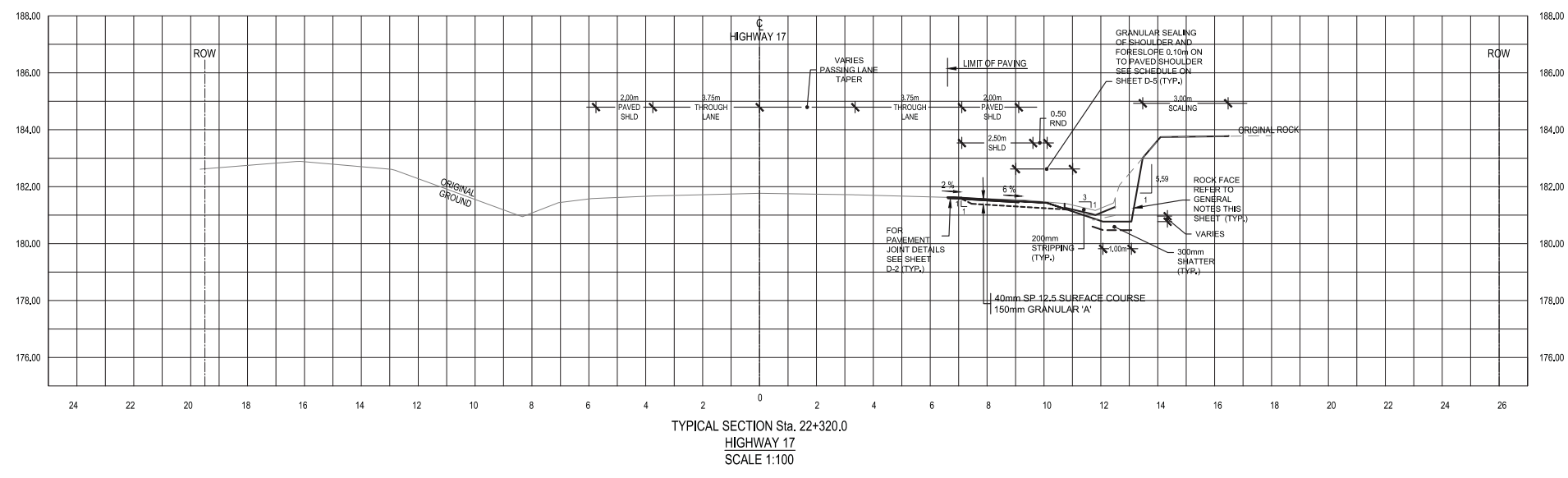
12 INTERNATIONAL DRIVE, PEMBROKE, ON  
Phone: (613) 755-2507, Fax: (613) 755-4513  
1150 MORRISON DRIVE, SUITE 410, OTTAWA, ON  
Phone: (613) 952-7600, Fax: (613) 952-2600

DESIGNED: RRS	PROJECT No.: 20-1046D
DRAFTED: GAD	REVISION DATE: 2021-11-01
CHECKED: JEH APPROVED: NSC	REVISION No.: 4
SCALE: AS SHOWN	CLIENT REF No.: XX-XXXX-XX

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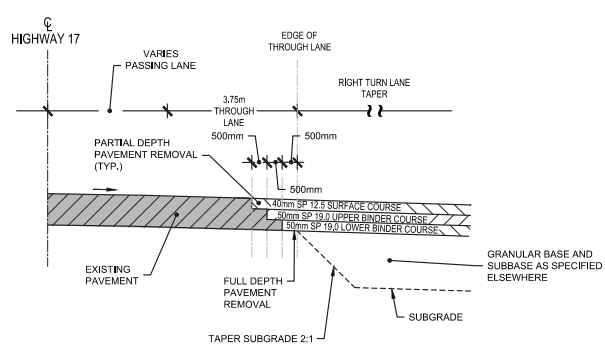


- GENERAL NOTES:**
- TYPICAL SECTIONS ARE TO BE READ IN CONJUNCTION WITH OPSD SERIES 200 DRAWINGS.
  - JOINT DETAILS:**
    - PROVIDE STRAIGHT, NEAT SAW CUTS OF ASPHALT
    - TACK COAT ALL SURFACES
  - ROCK FACE:**

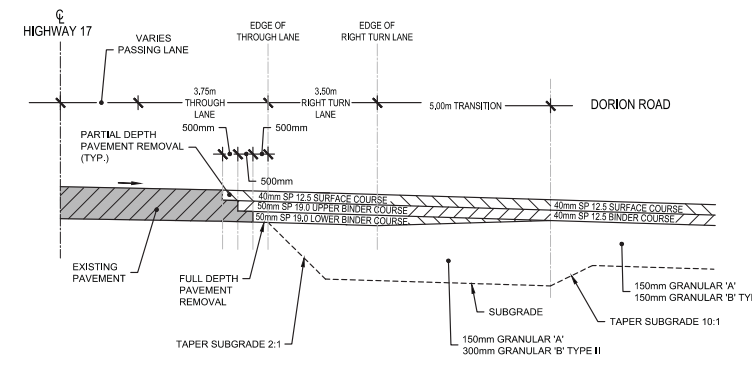
ROCK FACE BATTER AS RECOMMENDED BY GOLDER GEOTECHNICAL INVESTIGATION REPORT DATED JUNE 2021:

    - THE WEST SIDE OF DORION ROAD 2.70 V : 1 H BATTER
    - THE EAST SIDE OF DORION ROAD 5.59 V : 1 H BATTER

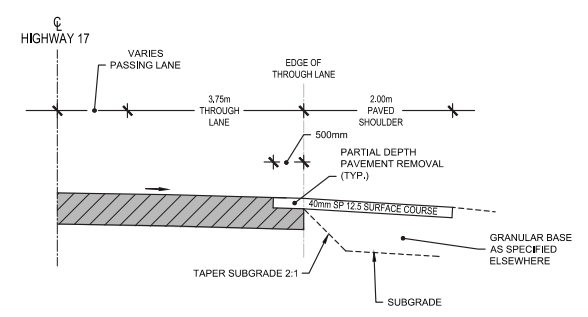
- JOINT DETAIL NOTES:**
- PROVIDE STRAIGHT, NEAT SAW CUTS OF ASPHALT.
  - TACK COAT ALL SURFACES.



JOINT DETAIL  
HIGHWAY 17 / DORION ROAD INTERSECTION  
RIGHT TURN LANE TAPER  
Sta. 22+220.0  
N.T.S.



JOINT DETAIL / GRADING TRANSITION  
HIGHWAY 17 / DORION ROAD INTERSECTION  
Sta. 22+257.37  
N.T.S.



PAVED SHOULDER JOINT DETAIL  
HIGHWAY 17  
Sta. 22+320.0  
N.T.S.

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**TOWN OF MATTAWA  
DORION ROAD  
RECONSTRUCTION  
MATTAWA, ONTARIO**

~

**HIGHWAY 17  
TYPICAL SECTIONS**

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ENGINEERS • PLANNERS • PROJECT MANAGERS

12 INTERNATIONAL DRIVE, PEMBROKE, ON  
Phone: (613)75-2507, Fax: (613)75-4513  
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Phone: (613)825-7600, Fax: (613)825-2600

DESIGNED: RRS	PROJECT No.: 20-1046D
DRAFTED: GAD	REVISION DATE: 2021-11-01
CHECKED: JEH APPROVED: NSC	REVISION No.: 4
SCALE: AS SHOWN	CLIENT REF No.: XX-XXXX-XX

PLOT NAME: C:\BENTLEY\DRAWING\PROJECTS\2021\20-1046D\20-1046D-DORION-ROAD-RECONSTRUCTION-MATTAWA-ONTARIO-2021.dwg, DATE PLOTTED: 2021-11-01 10:00:00 AM, PLOTTER: HP DesignJet T1100e, PLOT SCALE: 1:100, PLOT SHEET: 4 OF 4, PLOT STATUS: SUCCESS

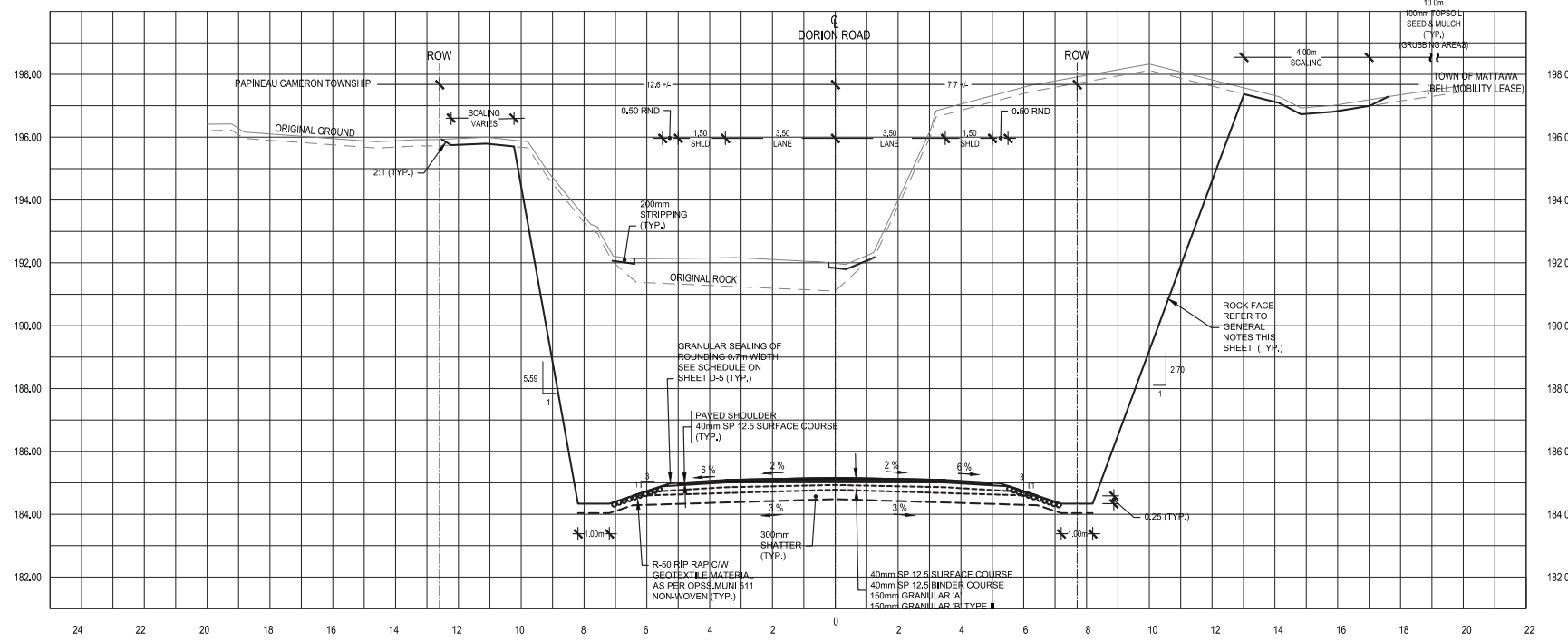
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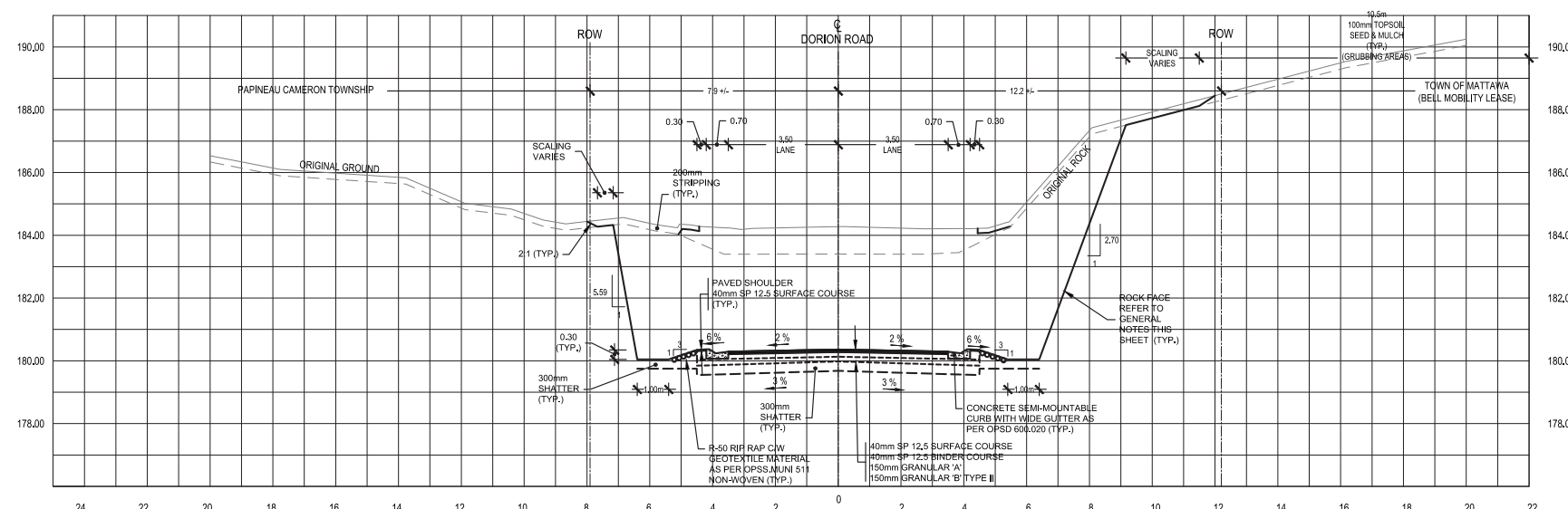
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**GENERAL NOTES:**

1. TYPICAL SECTIONS ARE TO BE READ IN CONJUNCTION WITH OPSD SERIES 200 DRAWINGS.
2. ROCK FACE:  
ROCK FACE BATTER AS RECOMMENDED BY GOLDER GEOTECHNICAL INVESTIGATION REPORT DATED JUNE 2021:  
(i) THE WEST SIDE OF DORION ROAD 2.70 V : 1 H BATTER  
(ii) THE EAST SIDE OF DORION ROAD 5.59 V : 1 H BATTER



TYPICAL SECTION Sta. 10+120.0  
DORION ROAD  
SCALE 1:100



TYPICAL SECTION Sta. 10+060.0  
DORION ROAD  
SCALE 1:100

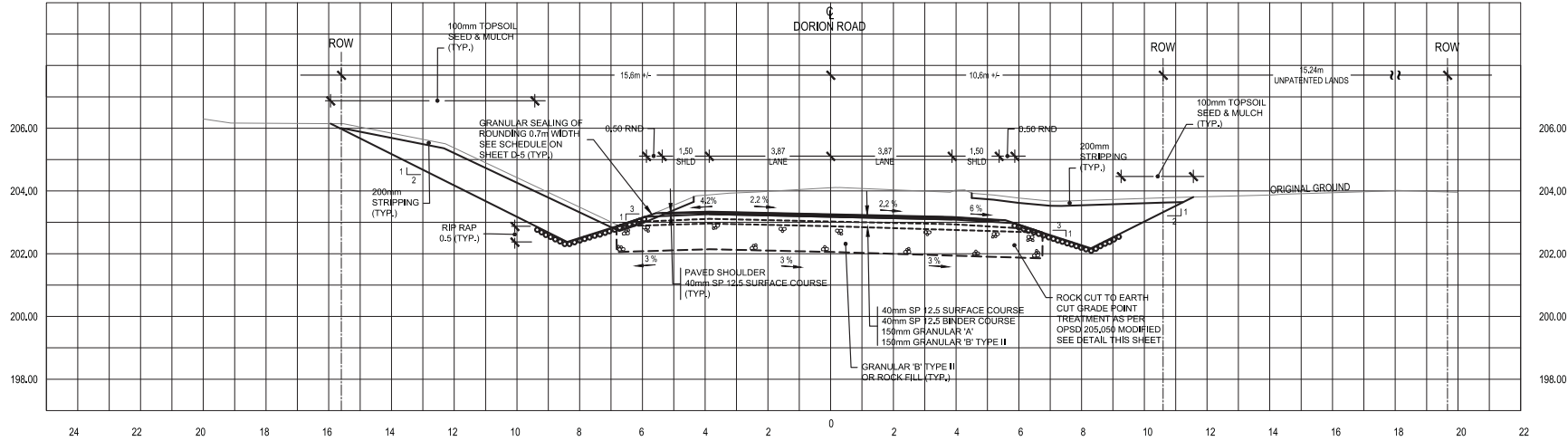
No.	DATE	ENG/DRFT	REVISION COMMENTS
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**TOWN OF MATTAWA  
DORION ROAD  
RECONSTRUCTION  
MATTAWA, ONTARIO  
~  
DORION ROAD  
TYPICAL SECTIONS**

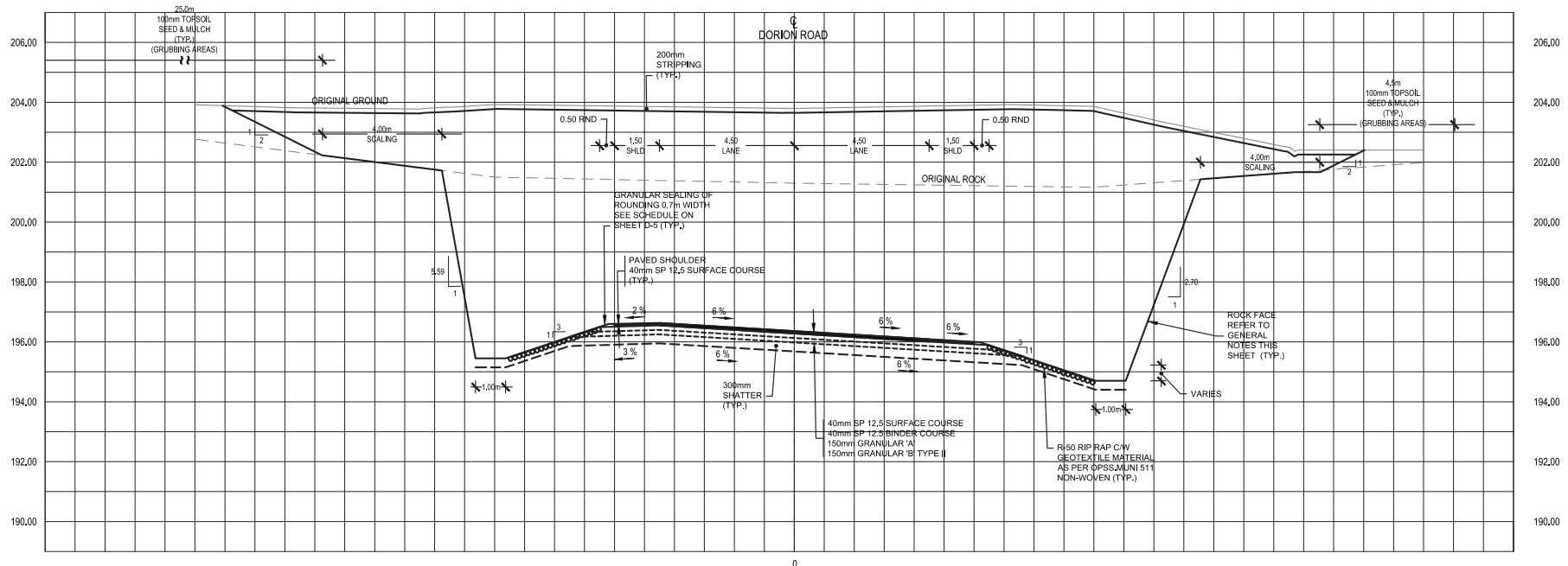
**J2 Jp2g Consultants Inc.**  
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DESIGNED: RRS	PROJECT No.: 20-1046D
DRAFTED: GAD	REVISION DATE: 2021-11-01
CHECKED: JEH APPROVED: NSC	REVISION No.: 4
SCALE: AS SHOWN	CLIENT REF No.: XX-XXXX-XX

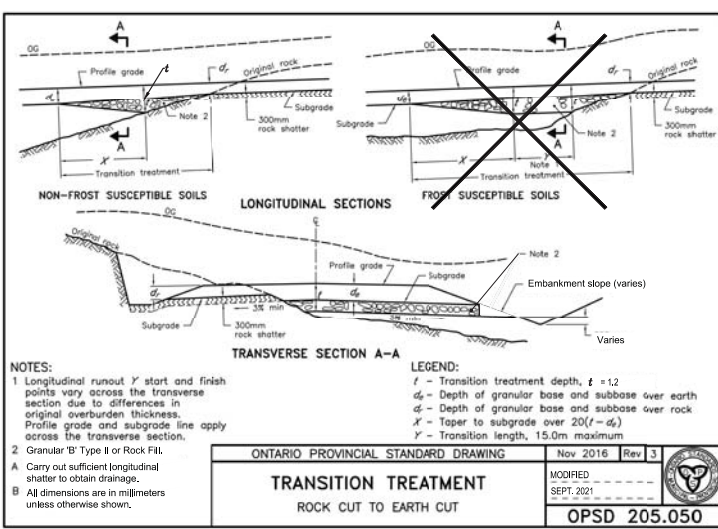
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TYPICAL SECTION Sta. 10+350.0  
DORION ROAD  
SCALE 1:100



TYPICAL SECTION Sta. 10+260.0  
DORION ROAD  
SCALE 1:100



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**TOWN OF MATTAWA**  
**DORION ROAD**  
**RECONSTRUCTION**  
**MATTAWA, ONTARIO**  
 ~  
**DORION ROAD**  
**TYPICAL SECTIONS**

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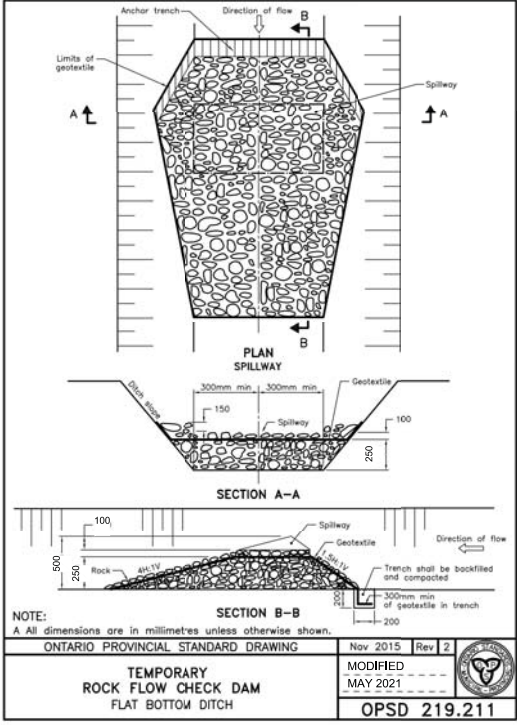
DESIGNED: RRS	PROJECT No.: 20-1046D
DRAFTED: GAD	REVISION DATE: 2021-11-01
CHECKED: JEH APPROVED: NSC	REVISION No.: 4
SCALE: AS SHOWN	CLIENT REF No.: XX-XXXX-XX

WIDTH (m)	LEFT	C/L STATION	RIGHT	WIDTH (m)
0,7	END	10+370	END	0,7
0,7	START	10+090	START	0,7
0,7	END	10+040	END	0,7
0,7		10+030		0,7
2,5		10+027,8		2,5
2,5	START	10+015	START	2,5
WIDTH (m)	LEFT	C/L STATION	RIGHT	WIDTH (m)

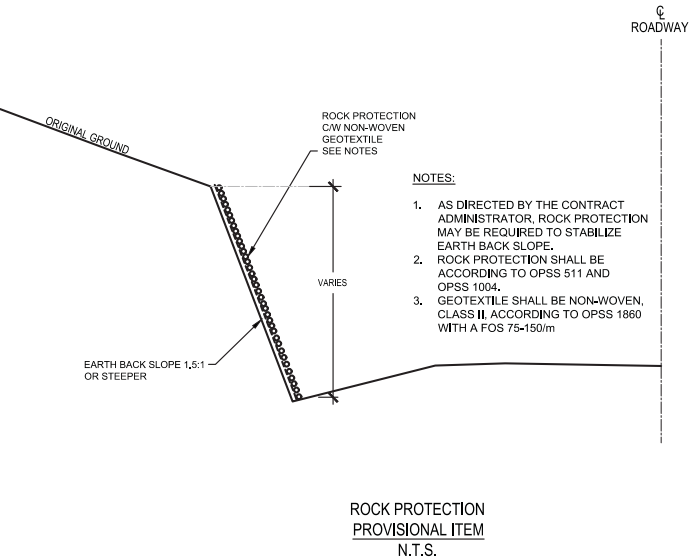
**GRANULAR SEALING SCHEDULE  
DORION ROAD**

WIDTH (m)	LEFT	C/L STATION	RIGHT	WIDTH (m)
		22+345,0	END	2,2
		22+310,0		2,2
		22+290,0		3,5
		22+240,0		3,5
		22+220,0		2,5
		22+167,8	START	5,0
WIDTH (m)	LEFT	C/L STATION	RIGHT	WIDTH (m)

**GRANULAR SEALING SCHEDULE  
HIGHWAY 17**



- GENERAL NOTES:**
1. GRANULAR SEALING SHALL NOT BE APPLIED ACROSS ENTRANCES.



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**TOWN OF MATTAWA  
DORION ROAD  
RECONSTRUCTION  
MATTAWA, ONTARIO**

~  
**DETAILS**

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DESIGNED: RRS	PROJECT No.: 20-1046D
DRAFTED: GAD	REVISION DATE: 2021-11-01
CHECKED: JEH	APPROVED: NSC
SCALE: AS SHOWN	CLIENT REF No.: XX-XXXX-XX