

614\active\133560220\design\drawing_06\civil_block_C\sheet_files\133560220. 1/2017 4:22:45 PM By: Brown, Kevin (Waterloo)



01614\active\133560220\design\drawing_06\civil_block_C\sheet_files\133560220_C-DP-BLOCK_C.dwg 1/2017_4-23-30_DN_Bu__Bcomp_Kain_(Mutachee)



tive\133560220\design\drawing_06\civiLblock_C\sheet_files\133560220_C-ST-BL0 4-3-4:78 PM Rv: Rrown Kavin (Waterloo)

ORIGINAL SHEET - ARCH D



stive\133560220\design\drawing_06\civiLblock_C\sheet_files\133560220_C-ST-BLOCK_ 4:25:30 PM Bv: Brown. Kevin (Waterloo)



ORIGINAL SHEET - ARCH D





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- CONFIRM ALL TREE & SHRUB LOCATION ON SITE. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS IN THIS SET PREPARED BY
- STANTEC CONSULTING LTD. I. THE CONTRACTOR MUST CHECK AND VERIFY DIMENSIONS; OBTAIN ALL UTILITY LOCATES AND OBTAIN ALL REQUIRED PERMITS/LICENSES AND VERIFY ELEVATIONS OF EXISTING SERVICES BEFORE PROCEEDING WITH ANY WORK.
- ALL CONSTRUCTION WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS (LATEST EDITION).
- IF, FOR UNFORESEEN REASONS, THE OWNER AND/OR HIS/HER REPRESENTATIVE MUST ENCROACH ONTO PRIVATE LANDS TO UNDERTAKE ANY WORKS, HE/SHE MUST OBTAIN WRITTEN PERMISSION FROM THE ADJACENT PROPERTY OWNERS PRIOR TO ENTERING UPON THE PRIVATE PROPERTY TO PERFORM ANY WORKS. COPIES OF THESE LETTERS OF CONSENT MUST BE SUBMITTED TO THE OWNER AND CONTRACTOR, AND A COPY IS TO BE KEPT ON FILE ON SITE, PRIOR TO ANY WORK BEING PERFORMED. FAILURE TO COMPLY WITH THE ABOVE IS AT THE PROPERTY OWNERS OWN RISK.
- THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL DAMAGED AND/OR DISTURBED PROPERTY WITHIN THE MUNICIPAL RIGHT-OF-WAY. THE CONTRACTOR IS TO BE RESPONSIBLE FOR ALL DRAINAGE AND MEASURES TO CONTROL WATER. THE
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- DETERMINATION OF TRENCH WIDTH. 1. ALL ARAS WITHIN THE PROPOSED WORKS ARE TO BE RE-VEGETATED USING NATIVE TOPSOIL AND
- SEED. MIX AND APPLICATION RATE/METHOD TO BE SUBMITTED AND APPROVED BY OWNER PRIOR TO IMPLEMENTATION.
- IMPLEMENTATION.
 12. CLEARING AND GRUBBING AND REMOVALS TO BE COMPLETED IN ACCORDANCE WITH OPSS 201. TEMPORARY EROSION CONTROL TO BE COMPLETED IN ACCORDANCE WITH OPSS 577.
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 15. RIPRAP AT CULVERT OUTLETS SHALL BE IN ACCORDANCE WITH OPSD 810.010 SECTION B-B.
 16. ALL SEEDING TO BE COMPLETED IN ACCORDANCE WITH OPSS 804.
 17. ROCK SPOIL FROM INSTALLATION TO BE REMOVED FROM GROUND SURFACE PRIOR TO GROUND PREPARATION FOR RESTORATION SEEDING.
- PREPARATION FOR RESTORATION SEEDING.

Legend PROPOSED		EXISTING
187.00	ΕΙ ΕΙ/ΔΤΙΩΝΙ	185 19(FX)
•	FENCE	
	EX. TOPO CONTOUR	
	LIDAR CONTOUR	184.5
	TEMPORARY LAYDOWN STRUCTURE TO BE DET	AREA (MATERIAL ERMINED ON SITE)
	PROPOSED FILL A TREE LINE	REA
2.0%	GRADE	
	SWALE	
		2
	NOTED OTHERWISE)
	ROCK SPREADER S	WALE
	AC CABLE TRENC DC CABLE TRENC POTENTIAL BEDROCK OU	H H JTCROPS
	(SEE DETAIL ON SHEE TEMPORARY REMOVAL INSTALLATION. TRENCH	BERM T C-500) OF S.I. BERM FOR TRENCH ES TO BE LINED WITH CLAY OR
	HARDENED SURFAC	E IF INSTALLED IN BEDROCK E
	ROCK CHECK DAM	(RCD)
4		
10000000000000000000000000000000000000	RIP-RAP SPILLWAY (R AS PER OPSS MUNI OVERLAND FLOW I	1–50) 450mm THICK, 2.0m WIDE 1004 AND OPSS 511 (TYP.) DIRECTION

C.	RE-ISSUED FOR TENDER	KDB	CC	17.12.21
В.	ISSUED FOR TENDER	MALM	CC	17.11.30
Α.	ISSUED FOR CLIENT REVIEW	MALM	DS	17.11.21
Re	evision	Ву	Appd.	YY.MM.DD

File Name:	133560220_C-ST-BLOCK_B_AR1.dwg	DRR	DS	DRR	17.10.30
		Dwn.	Chkd.	Dsgn.	YY.MM.DD
Permit-S	Seal				

Client/Project LOYALIST SOLAR LP LOYALIST SOLAR PROJECT 54MW GROUND-MOUNT SOLAR FARM County of Lennox and Addington, Ontario Title BLOCK B - ACCESS ROAD ONE PLAN & PROFILE STA. 0+800 - 1+135

Project No. 133560220	Scale 1:500H 0 5 1:50V 0 0.5	15 25m 1.5 2.5n
Drawing No.	Sheet	Revision
C-202	3 of 5	С



ORIGINAL SHEET - ARCH D







- CONFIRM ALL TREE & SHRUB LOCATION ON SITE. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS IN THIS SET PREPARED BY
- REQUIRED PERMITS/LICENSES AND VERIFY ELEVATIONS OF EXISTING SERVICES BEFORE PROCEEDING
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 17. ROCK SPOIL FROM INSTALLATION TO BE REMOVED FROM GROUND SURFACE PRIOR TO GROUND PREPARATION FOR RESTORATION SEEDING.

PREPARATION FOR RESTORATION SEEDING.

_egend <u>PROPOSED</u>		
• • • • • • • • • • • • • • • • • • •	ELEVATION FENCE EX. TOPO CONTOUR	185.19(EX)
	LIDAR CONTOUR	184.5
	TEMPORARY LAYDOWN STRUCTURE TO BE DET	AREA (MATERIAL ERMINED ON SITE)
	PROPOSED FILL A	REA
	GRADE SWALE CULVERT	
	SLOPE (3:1 UNLES NOTED OTHERWISE)	S)
M Cook	ROCK SPREADER S	WALE
	AC CABLE TRENC DC CABLE TRENC POTENTIAL BEDROCK OU	H H JTCROPS
	SLOPE INTERRUPTION (SEE DETAIL ON SHEE TEMPORARY REMOVAL INSTALLATION. TRENCHE	BERM T C—500) OF S.I. BERM FOR TRENCH ES TO BE LINED WITH CLAY OR
	FILLED WITH CONCRETE HARDENED SURFAC	E IF INSTALLED IN BEDROCK E
S.	ROCK CHECK DAM	(RCD)
10000000000000000000000000000000000000	RIP-RAP SPILLWAY (R AS PER OPSS MUNI ~ OVERLAND FLOW [–50) 450mm THICK, 2.0m WIDE 1004 AND OPSS 511 (TYP.) DIRECTION

С. к	RE-ISSUED FOR TENDER	KDB	CC	17.12.21
B. K	SSUED FOR TENDER	MALM	CC	17.11.30
A. I	SSUED FOR CLIENT REVIEW	MALM	DS	17.11.21
Revi	ision	Ву	Appd.	YY.MM.DD

File Name:	133560220_C-ST	-BLOCK_B_AR2_3	.dwg DRR	DS	DRR	17.10.30
			Dwn.	Chkd.	Dsgn.	YY.MM.DD
Permit-S	Seal					

Client/Project LOYALIST SOLAR LP LOYALIST SOLAR PROJECT 54MW GROUND-MOUNT SOLAR FARM

County of Lennox and Addington, Ontario

Title			
BLOCK B - A	ACCESS ROAD TW	/O & THF	SEE
STA. 0+000	- 0+068 & 0+000 -	0+117	
Project No. 133560220	Scale 1:500H 0 5 1:50V 0 0.5	15 1.5	25m 2.5m
Drawing No.	Sheet	Revision	
C-202	4 of 5	С	



- TOPOGRAPHIC INFORMATION CONDUCTED BY LESLIE M. HIGGINSON AND RECEIVED OCTOBER 24, 2017. TOPOGRAPHIC SURVEY IS UTM 18. LIDAR INFORMATION CONDUCTED BY TULLOCH ENGINEERING ON JUNE 27, 2016. LIDAR SURVEY IS UTM 18. BEDROCK SURVEY INFORMATION PROVIDED BY PCL CONSTRUCTORS LTD. RECEIVED ON OCTOBER 31, 2017.
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- ALL CONSTRUCTION WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE
- THE CONTRACTOR IS TO BE RESPONSIBLE FOR ALL DRAINAGE AND MEASURES TO CONTROL WATER. THE

_egend		
PROPOSED		<u>EXISTING</u>
_187.00	ELEVATION	• 185.19(EX)
	FENCE	105.0
	EX. TOPO CONTOUR	785.0 ~
	LIDAR CONTOUR	
	TEMPORARY LAYDOWN STRUCTURE TO BE DET	AREA (MATERIAL ERMINED ON SITE)
	PROPOSED FILL A	REA
2.0%	TREE LINE	·
2.0/	GRADE SWALE	
	CULVERT	
	SLOPE (3:1 UNLES	5
	NOTED OTHERWISE)	
	ROCK SPREADER S	WALE
	AC CABLE TRENC	H
D	POTENTIAL BEDROCK OU	H TCROPS
	SLOPE INTERRUPTION	BERM
	(SEE DETAIL ON SHEE TEMPORARY REMOVAL	T C-500) OF SI BERM FOR TRENCH
	INSTALLATION. TRENCHE	S TO BE LINED WITH CLAY OR
	FILLED WITH CONCRETE HARDENED SURFAC	E IF INSTALLED IN BEDROCK E
	ROCK CHECK DAM	(RCD)
QF.		
2020202000	RIP-RAP SPILLWAY (R AS PER OPSS MUNI 1	-50) 450mm THICK, 2.0m WIDE 004 AND 0PSS 511 (TYP.)
	OVERLAND FLOW	DIRECTION

C.	RE-ISSUED FOR TENDER	KDB	CC	17.12.21
В.	ISSUED FOR TENDER	MALM	CC	17.11.30
Α.	ISSUED FOR CLIENT REVIEW	MALM	DS	17.11.21
Re	vision	Ву	Appd.	YY.MM.DD

File Name:	133560220_C-ST-BLOCK_B_AR4.dwg	DRR	DS	DRR	17.10.30
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Permit-S	Seal				

STA. 0+000	- 0+296		
Project No. 133560220	Scale 1:500H 0 5 1:50V 0 0.5	15 1.5	25m 2.5m
Drawing No.	Sheet	Revision	
C-202	5 of 5	С	









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- SEED. MIX AND APPLICATION RATE/METHOD TO BE SUBMITTED AND APPROVED BY OWNER PRIOR TO

egend		
PROPOSED		EXISTING
187.00	ELEVATION	• 185.19(EX)
	FENCE	—————————————————————————————————————
	EX. TOPO CONTOUR	
	LIDAR CONTOUR	184.5
[]	TEMPORARY LAYDOWN STRUCTURE TO BE DET	AREA (MATERIAL ERMINED ON SITE)
	PROPOSED FILL A	REA
	TREE LINE	·
2.0%	GRADE	
	SWALE	
		9
	NOTED OTHERWISE)
	,	
	ROCK SPREADER S	WALE
	AC CABLE TRENC	Н
D	POTENTIAL BEDROCK OU	H JTCROPS
	SLOPE INTERRUPTION	BERM
	(SEE DETAIL ON SHEE	T_C-500)
	IEMPORARY REMOVAL	OF S.I. BERM FOR TRENCH ES TO BE LINED WITH CLAY OR
<u></u>	FILLED WITH CONCRETE	IF INSTALLED IN BEDROCK
2222222222	HARDENED SURFAC)E
	ROCK CHECK DAM	(RCD)

C.	REISUED FOR TENDER	KDB	СС	17.12.21
В.	ISSUED FOR TENDER	MALM	CC	17.11.30
A.	ISSUED FOR CLIENT REVIEW	MALM	DS	17.11.21
Re	vision	Ву	Appd.	YY.MM.DD

File Name:	133560220_C-G	P-BLOCK_C.dwg	DRR	DS	DRR	17.10.30
			Dwn.	Chkd.	Dsgn.	YY.MM.DD
Permit_9	Seal					

BLOCK B GRADING	PLAN	
Project No. 133560220	Scale 0 7.5 1:750	22.5 37.5m
Drawing No.	Sheet	Revision
C-402	4 of 4	С









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- SEED. MIX AND APPLICATION RATE/METHOD TO BE SUBMITTED AND APPROVED BY OWNER PRIOR TO
- SEED. MIX AND APPLICATION RATE/METHOD TO BE SUBMITTED AND APPROVED BY OWNER PRIOR TO IMPLEMENTATION. O. CLEARING AND GRUBBING AND REMOVALS TO BE COMPLETED IN ACCORDANCE WITH OPSS 201. TEMPORARY EROSION CONTROL TO BE COMPLETED IN ACCORDANCE WITH OPSS 577. 1. GRADING TO BE COMPLETED IN ACCORDANCE WITH OPSS 206. GRANULAR MATERIAL TO BE USED IN ACCORDANCE WITH OPSS 1010. 2. CULVERT TO BE CONSTRUCTED IN ACCORDANCE WITH OPSS 421. HEIGHT OF FILL TABLE FOR CSP CULVERTS TO COMPLY WITH OPSD 805.010. 3. RIPRAP SHALL BE IN ACCORDANCE WITH OPSD 810.010 SECTION B-B. 4. ALL SECTIONE OF COMPLETED IN ACCORDANCE WITH OPSS 804.
- . ALL SEEDING TO BE COMPLETED IN ACCORDANCE WITH OPSS 804. . ROCK SPOIL FROM INSTALLATION TO BE REMOVED FROM GROUND SURFACE PRIOR TO GROUND PREPARATION FOR RESTORATION SEEDING.

F.	REVISED NOTES AND DETAILS	DRR	DS	17.12.21
E.	REVISED NOTES AND DETAILS	MALM	DS	17.12.15
D.	REVISED NOTES AND DETAILS	DRR	DS	17.11.30
C.	REVISED NOTES AND DETAILS	KDB	DS	17.11.23
В.	ISSUED FOR TENDER	DRR	DS	17.11.23
Α.	ISSUED FOR CLIENT REVIEW	MALM	DS	17.10.31
Re	vision	Ву	Appd.	YY.MM.DD

PRELIMINARY NOT FOR CONSTRUCTION Client/Project LOYALIST SOLAR LP LOYALIST SOLAR PROJECT 54MW GROUND-MOUNT SOLAR FARM County of Lennox and Addington, Ontario Title GENERAL DETAILS AND NOTES Scale Project No. AS NOTED 133560220 Sheet Revision Drawing No.

C-500



1 of 2



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E.	REVISED NOTES AND DETAILS	MALM	DS	17.12.15
D.	REVISED NOTES AND DETAILS	DRR	DS	17.11.30
C.	REVISED NOTES AND DETAILS	KDB	DS	17.11.23
В.	ISSUED FOR TENDER	DRR	DS	17.11.23
Α.	ISSUED FOR CLIENT REVIEW	MALM	DS	17.10.31
Re	evision	Ву	Appd.	YY.MM.DD

File Name: 133560220_C-DT.dwg DRR DS _____ Dwn. Chkd. Dsgn. YY.MM.DD Permit-Seal

> PRELIMINARY NOT FOR CONSTRUCTION

DRR 17.10.18

Revision

Client/Project LOYALIST SOLAR LP LOYALIST SOLAR PROJECT

54MW GROUND-MOUNT SOLAR FARM

County of Lennox and Addington, Ontario

Title GENERAL DETAILS AND NOTES

C-500

Scale Project No. AS NOTED 133560220 Shaat Drawing No.

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	2 of 2	2

- CONFIRM ALL TREE & SHRUB LOCATION ON SITE. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS IN THIS SET PREPARED BY
- REQUIRED PERMITS/LICENSES AND VERIFY ELEVATIONS OF EXISTING SERVICES BEFORE PROCEEDING

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PROPOSED	EXISTING
* * * *	PROPERTY LINE FENCE
	LIDAR CONTOUR295.5
	PERIMETER SILT FENCE (SEE DETAILS ON C–650) CULVERT
	ROCK CHECK DAMS (RCD) (PER OPSD 219.210 SEE DETAILS ON C-500) OVERLAND FLOW DIRECTION
	SLOPE INTERRUPTION BERM (S.I. BERM) (SEE DWG C–500 FOR DETAILS) TEMPORARY REMOVAL OF S.I. BERM FOR TRENCH INSTALLATION. TRENCHES TO BE LINED WITH CLAY FILLED WITH CONCRETE IF INSTALLED IN BEDROCK
	5.0M WIDE VEGETATED NO TOUCH ZONE
	HARDENED SURFACE
	ROLLED EROSION CONTROL PRODUCT
	FILL AREA
	ROCK CHECK SPREADER AC CABLE TRENCH DC CABLE TRENCH

KDB CC 17.12.21
MALM DS 17.11.30
MALM DS 17.11.21
By Appd. YY.MM.DD
KDB CC 17.12 MALM DS 17.11 MALM DS 17.11 MALM DS 17.11 By Appd. YY.MM

File Name:	133560220_C-EC-BLOCK_C.dwg	DRR	DS	DRR	17.10.30
		Dwn.	Chkd.	Dsgn.	YY.MM.DD
Permit-9	Seal				

CONTROL	LAN			
Project No.	Scale	0 7.5	22.5	37.5m
133560220	1:750			
Drawing No.	Sheet		 Revisio	on
C-602		1 of 4	С	•

- SEED. MIX AND APPLICATION RATE/METHOD TO BE SUBMITTED AND APPROVED BY OWNER PRIOR TO

egend	
PROPOSED	EXISTING
* * * *	PROPERTY LINE FENCE
	LIDAR CONTOUR —295.5 — -
·····	PERIMETER SILT FENCE (SEE DETAILS ON C-650) CUI VERT
	ROCK CHECK DAMS (RCD) (PER OPSD 219.210 SEE DETAILS ON C-500) OVERLAND FLOW DIRECTION
	SLOPE INTERRUPTION BERM (S.I. BERM) (SEE DWG C-500 FOR DETAILS) TEMPORARY REMOVAL OF S.I. BERM FOR TRENCH INSTALLATION. TRENCHES TO BE LINED WITH CLAY FILLED WITH CONCRETE IF INSTALLED IN BEDROCK
	5.0M WIDE VEGETATED NO TOUCH ZONE
	HARDENED SURFACE
	ROLLED EROSION CONTROL PRODUCT
	FILL AREA
	ROCK CHECK SPREADER
	AC CABLE TRENCH DC CABLE TRENCH

С	RE-ISSUED FOR TENDER	KDB	CC	17.12.21
В	ISSUED FOR TENDER	MALM	DS	17.11.30
А	ISSUED FOR CLIENT REVIEW	MALM	DS	17.11.21
Re	evision	Ву	Appd.	YY.MM.DD

File Name:	133560220_C-EC-BLOCK_C.dwg	DRR	DS	DRR	17.10.30
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CONTROL PLAN						
Project No. 133560220	Scale 0 7.5	22.5 37.5m				
Drawing No.	Sheet	Revision				
C-602	2 of 4	С				

- CONFIRM ALL TREE & SHRUB LOCATION ON SITE. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS IN THIS SET PREPARED BY

- SEED. MIX AND APPLICATION RATE/METHOD TO BE SUBMITTED AND APPROVED BY OWNER PRIOR TO

PROPOSED	PROPERTY LINE <u>EXISTING</u> FENCE <u></u>
	TOPOGRAPHIC SURVEY 295.5 CONTOUR LIDAR CONTOUR -295.5
Legend	PERIMETER SILT FENCE (SEE DETAILS ON C-650) CULVERT ROCK CHECK DAMS (RCD) (PER OPSD 219.210 SEE DETAILS ON C-500) OVERLAND FLOW DIRECTION
	SLOPE INTERRUPTION BERM (S.I. BERM) (SEE DWG C–500 FOR DETAILS) TEMPORARY REMOVAL OF S.I. BERM FOR TRENCH INSTALLATION. TRENCHES TO BE LINED WITH CLAY OR FILLED WITH CONCRETE IF INSTALLED IN BEDROCK 5.0M WIDE VEGETATED NO TOUCH ZONE
	HARDENED SURFACE
	ROLLED EROSION CONTROL PRODUCT
	FILL AREA

С	RE-ISSUED FOR TENDER	KDB	CC	17.12.21
В	ISSUED FOR TENDER	MALM	DS	17.11.30
Α	ISSUED FOR CLIENT REVIEW	MALM	DS	17.11.21
Re	evision	Ву	Appd.	YY.MM.DD
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File Name:	133560220_C-EC-BLOCK_C.dwg	DRR	DS	DRR	17.10.30
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SEDIMENTATION AND EROSION CONTROL PLAN						
Project No. 133560220	Scale 1:750	0 7.5	22.5	37.5m		
Drawing No.	Sheet		Revisio	on		
C-602		3 of 4	С			

- REQUIRED PERMITS/LICENSES AND VERIFY ELEVATIONS OF EXISTING SERVICES BEFORE PROCEEDING

- THE CONTRACTOR IS TO BE RESPONSIBLE FOR ALL DRAINAGE AND MEASURES TO CONTROL WATER. THE

- SEED. MIX AND APPLICATION RATE/METHOD TO BE SUBMITTED AND APPROVED BY OWNER PRIOR TO

С	RE-ISSUED FOR TENDER	KDB	CC	17.12.21
В	ISSUED FOR TENDER	MALM	DS	17.11.30
А	ISSUED FOR CLIENT REVIEW	MALM	DS	17.11.21
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BLOCK B					
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Project No.	Scale	0 7.5	22	2.5 37	′.5m
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Drawing No.	Sheet			Revision	
C-602		4 of 4		С	

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AFTER AREA GRADING

ALL AREAS WHERE ACTIVE CONSTRUCTION IS NOT EXPECTED FOR 30 DAYS SHALL BE RE-SEEDED WITH NATIVE PLANT SPECIES PER LANDSCAPE PLAN REMOVAL OF SEDIMENT CONTROL MEASURES AND COLLECTION OF ACCUMULATED SEDIMENT SHALL OCCUR FOLLOWING SUBSTANTIAL COMPLETION OF CONSTRUCTION (90%-100%) AND SITE STABILIZATION TO 90%

SILT FENCE NOTES (AS PER OPSD):

1. STAKES/POSTS ARE TO BE INSTALLED ON THE DOWNSTREAM SIDE OF THE BARRIER. 2. SILT FENCE FABRIC TO BE TERRAFIX 270R OR EQUIVALENT. 3. CONTRACTOR TO MONITOR SILT FENCE FOR UV DEGRADATION AND UNDERMINING

ROLLED EROSION CONTROL PRODUCT (RECP) NOTES:

1. EITHER ROLLED EROSION CONTROL PRODUCTS (RECP) OR MULCHMAX ULTRA AT 500KG/HA ARE TO BE USED ON 3:1 SLOPES OR GREATER.

RECP SHALL BE BIODEGRADABLE AND CONSIST OF STRAW, STRAW-COCONUT, OR COCONUT FIBER WHICH ARE HELD IN PLACE BY NETTING SEWN ON BOTH SIDES OF THE MATERIAL. RECP MUST BE SECURED ON STOCKPILE BY STAPLING AT THE BOTTOM OF THE SLOPE AND UPHILL TRENCHES ON THE STOCKPILE/SLOPED SURFACE.

4. RECP PRODUCTS ARE TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS. INSTALLATION TO BE INSPECTED AND REPAIRED AS NEEDED.

RECP ARE TO BE APPLIED AS SOON AS POSSIBLE FOLLOWING GRADING AND SEEDING OF SUBJECT 6. SURFACES ARE TO BE SMOOTH AND FREE OF STONES AND DEBRIS OR OTHER WEED CLUMPS PRIOR

TO RECP BEING INSTALLED. 7. CONTRACTOR TO ENSURE THAT RECP IS SECURED AT THE TOP OF THE SLOPE IN A TRENCH AND OVERLAP (SIDE TO SIDE AND BOTTOM TO TOP)

CONTRACTOR TO INSPECT THE SITE DAILY AND AFTER EVERY SIGNIFICANT RAINFALL EVENT (>10mm) AND IDENTIFY AREAS OF EROSION OR POTENTIAL EROSION. BEST MANAGEMENT PRACTICES ARE TO BE USED TO CONTROL THE EROSION. METHODS OF CONTROL MAY INCLUDE THE USE OF EROSION CONTROL BLANKETS C/W SEEDING, HYDRAULIC MULCH OR STRAW MULCH, OR SOIL BINDER. SOILS ARE TO BE STABILIZED AS SOON AS AREAS ARE IDENTIFIED TO PREVENT FURTHER EROSION.

CONTRACTORS TO ENSURE THAT RILLING/GULLYING RECTIFIED PRIOR TO RECP OR MULCHMAX ULTRA INSTALLATION OR CONTRACTOR TO MONITOR RUNOFF UNDER THE RECP FOLLOWING INSTALLATION. HYDRAULIC MULCH NOTES:

COORDINATE/CONSULT WITH OWNER PRIOR TO UTILIZING ANY HYDRAULIC MULCH. TIMELINES AND

SEEDING METHODS NEED TO BE CAREFULLY CONSIDERED PRIOR TO IMPLEMENTATION. 2. ENSURE THAT A TACKIFIER IS USED TO KEEP PRODUCT IN PLACE.

3. APPLY SEED MIX PRIOR TO MULCH WITH TACKIFIER.

4. HYDRAULIC MULCH IS TO BE APPLIED AS SOON AS GRADING AND SEEDING WORK IS COMPLETE TO ENSURE STABILIZATION OF SOILS. 5. RE-APPLY HYDRAULIC MULCH IF THE SUBJECT AREA IS DAMAGED OR ERODED BY WIND OR WATER, SURFACE COVERAGE MUST BE AT LEAST 80% AT ALL TIMES.

CULVERT NOTES:

1. CULVERT SLOPE TO MATCH EXISTING DITCH GRADE UNLESS OTHERWISE NOTED. 2. CULVERT TO BE EMBEDDED 10% OF PIPE DIAMETER BELOW DITCH INVERT OR AS NOTED.

3. CULVERTS TO BE CORRUGATED STEEL PIPE (CSP). PIPE MATERIAL TO BE GALVANIZED STEEL AND HAVE A 68mm x 13mm CORRUGATION WITH 1.6mm METAL THICKNESS. 4. CULVERT TO BE INSTALLED IN ACCORDANCE WITH OPSD 802.010.

5. CULVERT ELEVATIONS ARE APPROXIMATE AND ARE TO BE FINALIZED IN THE FIELD.

ENTIRE WORK AREA TO BE SCARIFIED FOLLOWING COMPLETION OF CLEARING AND GRUBBING. 2. SCARIFICATION TO BE PERFORMED USING A CHISEL PLOW TO RETAIN AS MUCH RESIDUE AT THE SOIL SURFACE AS POSSIBLE. 3. SOIL TO BE SCARIFIED TO A MINIMUM DEPTH OF 150mm, OR AS DEPTH TO BEDROCK PERMITS.

4. SCARIFICATION TO BE PERFORMED PARALLEL TO GROUND SURFACE CONTOURS.

CONTINGENCY MEASURES WHERE FAILURE RISK IS HIGH:

WHERE MONITORING HAS IDENTIFIED A HIGH POTENTIAL FOR FAILURE. THE CONTRACTOR SHALL IMMEDIATELY TAKE STEPS TO REDUCE THE RISK. STEPS MAY INCLUDE REPAIRS TO EXISTING MEASURES, MODIFICATIONS TO EXISTING MEASURES, AND THE ADDITION OF NEW MEASURES. WHEN THE LOCAL WEATHER FORECAST INDICATES THAT SIGNIFICANT (I.E >10mm) RAINFALL IS EXPECTED WITHIN 24 HOURS, THE CONTRACTOR SHALL VERIFY ALL EROSION AND SEDIMENT CONTROL MEASURES ARE SECURE

CONTINGENCY MEASURES IN CASE OF FAILURE:

1. THE CONTRACTOR WILL CEASE CONSTRUCTION RELATED WORK AND FOCUS ON EROSION AND SEDIMENT CONTROL REPAIRS TO EFFECTIVELY STABILIZE THE SITE WHERE A FAILURE HAS

OCCURRED OR IS IMMINENT. ALL SPILLS SHALL BE REPORTED TO THE ENVIRONMENTAL MONITOR FOR ASSESSMENT AND DOCUMENTATION, AND TO ESTABLISH A REMEDIAL PLAN BASED ON THE PROJECT-SPECIFIC SPILL RESPONSE PLAN, BASED ON THE ASSESSMENT OF THE EXTENT OF THE IMPACT. THE ENVIRONMENTAL MONITOR SHALL DETERMINE IF THE MOECC SPILLS ACTION CENTRE SHOULD BE NOTIFIED. SHOULD THE INCIDENT REQUIRE THAT THE SPILLS ACTION CENTRE BE NOTIFIED, THIS NOTIFICATION WILL BE UNDERTAKEN AS QUICKLY AS POSSIBLE BY CALLING 1-800-268-6060. IF SIGNIFICANT LONG-TERM DAMAGE TO DOWNSTREAM FISH HABITAT OR PROPERTY IS SUSPECTED. THE ENVIRONMENTAL MONITOR WILL IMMEDIATELY ASSESS AND DOCUMENT THE SITUATION AND REPORT THE INCIDENT TO THE MOECC SPILLS ACTION CENTRE. THE CONTRACTOR WILL DEVELOP A RESTORATION PLAN IN CONSULTATION WITH MOECC. DEVELOPMENT OF THE INITIAL RESTORATION PLAN WILL BEGIN WITHIN 24 HOURS OF THE DISCOVERY OF SEDIMENT DISCHARGE, AND WILL BE IMPLEMENTED AS SOON AS POSSIBLE, FOLLOWING CONSULTATION AND APPROVAL FROM THE MOECC, QC, DFO (IF NECESSARY) AND THE TOWNSHIP OF STONE MILLS 4. THE RESTORATION PLAN WILL ADDRESS:

• REMOVAL AND DISPOSAL OF SEDIMENT FROM OUTSIDE THE WORK LIMITS,

 RESTORATION OF THE AFFECTED AREA, AND • RESTORATION OF ANY AREAS DISTURBED THROUGH DEPOSITION OR REMOVAL.

Stantec Consulting Ltd. 300 Hagey Boulevard Waterloo ON Canada Tel. 519.579.4410 www.stantec.com

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Notes

- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS IN THIS SET PREPARED
- THE CONTRACTOR MUST CHECK AND VERIFY DIMENSIONS; OBTAIN ALL UTILITY LOCATES AND OBTAIN ALL REQUIRED PERMITS/LICENSES AND VERIFY ELEVATIONS OF EXISTING SERVICES BEFORE PROCEEDING WITH ANY WORK.
- THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS (LATEST EDITION).
- IF. FOR UNFORESEEN REASONS. THE OWNER AND/OR HIS/HER REPRESENTATIVE MUST ENCROACH ONTO PRIVATE LANDS TO UNDERTAKE ANY WORKS, HE/SHE MUST OBTAIN WRITTEN PERMISSION FROM THE ADJACENT PROPERTY OWNERS PRIOR TO ENTERING UPON THE PRIVATE PROPERTY TO PERFORM ANY WORKS. COPIES OF THESE LETTERS OF CONSENT MUST BE SUBMITTED TO THE BEING PERFORMED. FAILURE TO COMPLY WITH THE ABOVE IS AT THE PROPERTY OWNERS OWN
- THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL DAMAGED AND/OR DISTURBED
- PROPERTY WITHIN THE MUNICIPAL RIGHT-OF-WAY. THE CONTRACTOR IS TO BE RESPONSIBLE FOR ALL DRAINAGE AND MEASURES TO CONTROL WATER. THE SITE IS TO BE FINE GRADED/LEVELED LEAVING THE SITE IN A NEAT APPEARANCE SUCH THAT POSITIVE DRAINAGE IS ACHIEVED EVERYWHERE PRIOR TO THE INSTALLATION OF SOLAR PANELS.
- CONSTRUCTION TURNING RADIUS LIMITS IDENTIFY AREAS WHERE ADDITIONAL ROAD WIDTH IS REQUIRED TO ALLOW FOR ADEQUATE CLEARANCE FOR CONSTRUCTION VEHICLES. CULVERTS ARE TO BE INSTALLED AS PER OPSD 802.010. SOIL TYPE TO BE CONFIRMED ON SITI FOR DETERMINATION OF TRENCH WIDTH.
- LL AREAS WITHIN THE PROPOSED WORKS ARE TO BE RE-VEGETATED USING NATIVE TOPSOIL AND SEED. MIX AND APPLICATION RATE/METHOD TO BE SUBMITTED AND APPROVED BY OWNER PRIOR TO MPLEMENTATION.
- CLEARING AND GRUBBING AND REMOVALS TO BE COMPLETED IN ACCORDANCE WITH OPSS 201. TEMPORARY EROSION CONTROL TO BE COMPLETED IN ACCORDANCE WITH OPSS 577. GRADING TO BE COMPLETED IN ACCORDANCE WITH OPSS 206. GRANULAR MATERIAL TO BE USED IN
- ACCORDANCE WITH OPSS 1010. CULVERT TO BE CONSTRUCTED IN ACCORDANCE WITH OPSS 421. HEIGHT OF FILL TABLE FOR CSP CULVERTS TO COMPLY WITH OPSD 805.010. RIPRAP SHALL BE IN ACCORDANCE WITH OPSD 810.010 SECTION B-B.
- . ALL SEEDING TO BE COMPLETED IN ACCORDANCE WITH OPSS 804. . ROCK SPOIL FROM INSTALLATION TO BE REMOVED FROM GROUND SURFACE PRIOR TO GROUND PREPARATION FOR RESTORATION SEEDING

F.	REVISED NOTES AND DETAILS	DRR	DS	17.12.21
E.	UPDATED DETAILS	MALM	DS	17.12.15
D.	UPDATED ESC NOTES	DRR	DS	17.11.30
C.	UPDATED ESC NOTES	DRR	DS	17.11.23
В.	ISSUED FOR TENDER	DRR	DS	17.11.21
Α.	ISSUED FOR CLIENT REVIEW	DRR	DS	17.10.30
Re	vision	Ву	Appd.	YY.MM.DD

File Name: 133560220_C-DT-EC.dwg DRR DS DRR 17.10.18 Dwn. Chkd. Dsgn. YY.MM.DD

Permit-Seal

PRELIMINARY NOT FOR CONSTRUCTION

Client/Project

LOYALIST SOLAR LP

LOYALIST SOLAR PROJECT

54MW GROUND-MOUNT SOLAR FARM

County of Lennox and Addington, Ontario

SEDIMENTATION AND EROSION CONTROLS DETAILS Project No. Scale AS NOTED 133560220 Drawing No. Sheet Revision C-650 1 of 1

