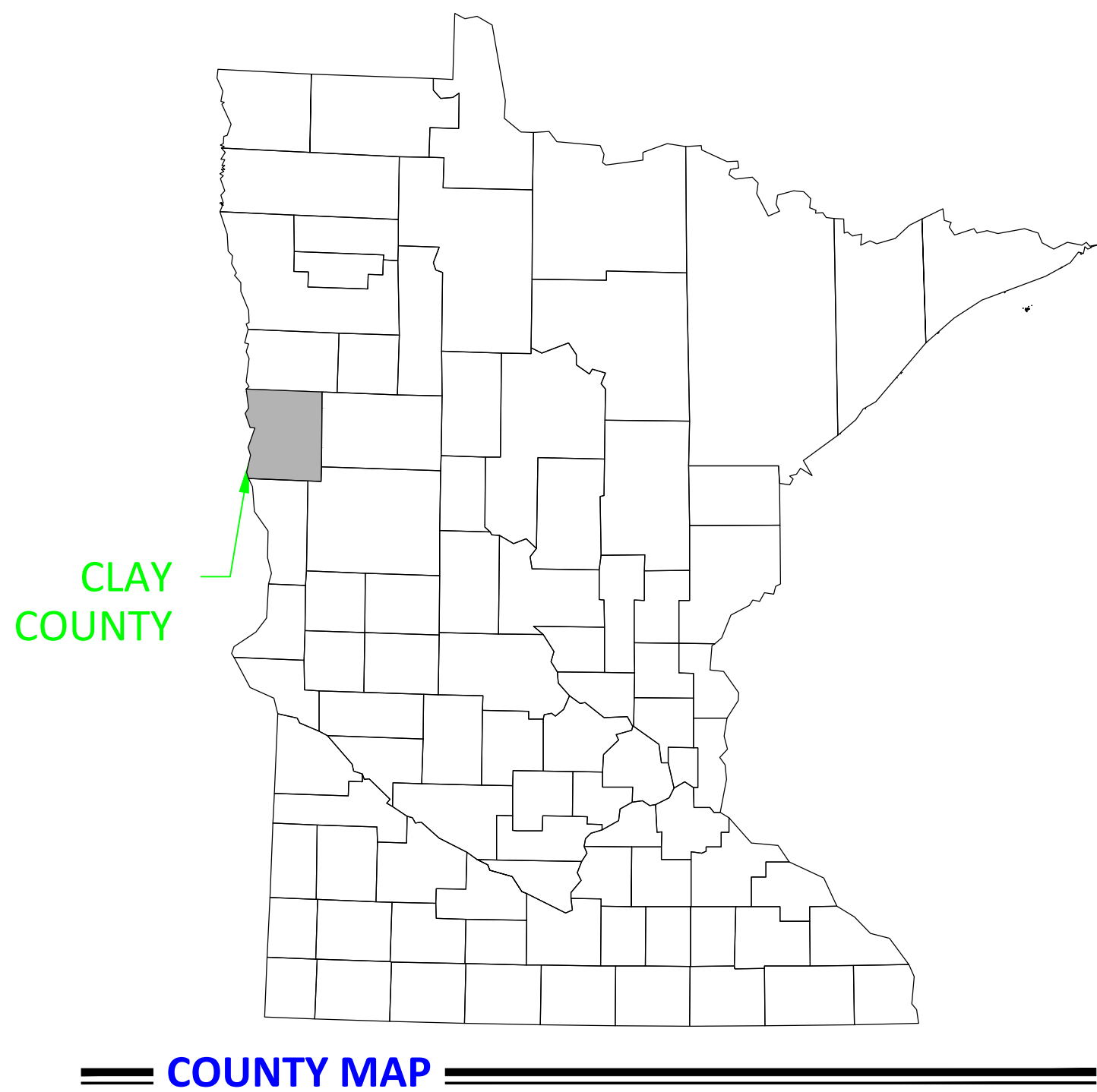


NOVEL CHLOE SOLAR LLC
CLAY COUNTY, MINNESOTA
SOLAR PV PROJECT - 0.9999 MWAC
CIVIL SUBMITTAL - ISSUED FOR PERMITTING (IFP)



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C9.02	LANDSCAPING DETAILS	02/07/25	08/29/25	XX/XX/XX

QUANTITIES		
DESCRIPTION	QTY	UNIT
CIVIL SITE ITEMS		
2-3" GRAVEL (ROCK CONSTRUCTION ENTRANCE)	20	TONS
TYPE 'D' AGGREGATE (ACCESS ROAD)	1,070	TONS
TYPE 'D' AGGREGATE (LAYDOWN YARD)	370	TONS
(OPTIONAL) GEOTEXTILE ROADWAY FABRIC	17,440	SQFT
EROSION CONTROL ITEMS		
SILT FENCE	1,100	LINEAR FEET
ROCK CONSTRUCTION ENTRANCE	1	EACH
24" CULVERT	30	LINEAR FEET
FENCING ITEMS		
20' GATE	1	EACH
FENCE	2,400	LINEAR FEET
LANDSCAPING		
SEED MIX A/B- NATIVE GRASSES	789	POUNDS
SEED MIX C-POLLINATOR MIX	27	POUNDS
SEED MIX-COVERCROP	81	POUNDS

PROJECT CONTACT LIST	
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SIGNATURE OF BOARD MEMBERS		CONDITIONS OF APPROVAL	



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2303 Wycliff St, Suite 300
St Paul, MN 55114

info@novelenergy.biz
612-345-7188 telephone

Landowner
HARLEN POEHLS

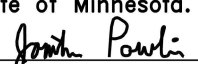
1823 US HWY 75 WOLVERTON MN 56594

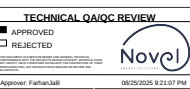
Project
NOVEL CHLOE
SOLAR LLC

Location
46.783236° ,
-96.647641°

Certification

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota.

Signature: 
Name: Jonathan Powlison
Date: 08/25/2025 License Number: 64201



Summary

Designed IG Approved JMP
Phase PERMITTING

No	Date	By	Description
1	1/7/2025	IG	ADDED POND FENCE HEIGHT ADJUSTED
2	2/7/2025	IG	CULVERTS ADDITION
3	8/29/2025	IG	IFP90 ISSUE-SEE REV NOTES

Sheet Title
COVERSHEET

Sheet No. Rev
C1.01 IFP

GENERAL NOTES

1.

THE DESIGN SHOWN IS BASED ON ENGINEER'S UNDERSTANDING OF EXISTING CONDITIONS. THE EXISTING CONDITIONS SHOWN ON THIS PLAN ARE BASED UPON ALTA AND TOPOGRAPHIC MAPPING PREPARED BY NES PRIOR TO DESIGN. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS WITHOUT EXCEPTION, CONTRACTOR SHALL HAVE MADE, AT OWN EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.
2.

CONTRACTOR IS SPECIFICALLY CAUTIONED THAT LOCATIONS OF EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM INFORMATION AVAILABLE. ENGINEER ASSUMES NO RESPONSIBILITY FOR THE UTILITY MAPPING ACCURACY. PRIOR TO START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES 48 HOURS PRIOR TO ANY EXCAVATION FOR ON-SITE LOCATIONS OF EXISTING UTILITIES. THE LOCATIONS OF UTILITIES SHALL BE OBTAINED BY THE CONTRACTOR BY CALLING MINNESOTA GOPHER STATE ONE CALL AT (800) 252-1166 OR (651) 454-0002.
3.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
4.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING VEHICULAR AND PEDESTRIAN TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGMEN AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. TRAFFIC CONTROL DEVICES SHALL CONFORM TO APPROPRIATE MINNESOTA DEPARTMENT OF TRANSPORTATION STANDARDS.
5.

IF REQUIRED, CONTRACTOR SHALL PREPARE AND SUBMIT TO THE GOVERNING AUTHORITY A TRAFFIC AND/OR PEDESTRIAN TRAFFIC PLAN PER STATE STANDARDS TO BE APPROVED BY THE LOCAL GOVERNING AUTHORITY.
6.

EXISTING TREES AND OTHER NATURAL VEGETATION WITHIN THE PROJECT AND/OR ADJACENT TO THE PROJECT ARE OF PRIME CONCERN TO THE CONTRACTOR'S OPERATIONS AND SHALL BE A RESTRICTED AREA. CONTRACTOR SHALL PROTECT TREES TO REMAIN AT ALL TIMES. EQUIPMENT SHALL NOT NEEDLESSLY BE OPERATED UNDER NEARBY TREES AND EXTREME CAUTION SHALL BE EXERCISED WHEN WORKING ADJACENT TO TREES. SHOULD ANY PORTION OF THE TREE BRANCHES REQUIRE REMOVAL TO PERMIT OPERATION OF THE CONTRACTOR'S EQUIPMENT, CONTRACTOR SHALL OBTAIN THE SERVICES OF A PROFESSIONAL TREE TRIMMING SERVICE TO TRIM THE TREES PRIOR TO THE BEGINNING OF OPERATION. SHOULD CONTRACTOR'S OPERATIONS RESULT IN THE BREAKING OF ANY LIMBS, THE BROKEN LIMBS SHOULD BE REMOVED IMMEDIATELY AND CUTS SHALL BE PROPERLY PROTECTED TO MINIMIZE ANY LASTING DAMAGE TO THE TREE. NO TREES SHALL BE REMOVED WITHOUT AUTHORIZATION BY THE ENGINEER. COSTS FOR TRIMMING SERVICES SHALL BE CONSIDERED INCIDENTAL TO THE GRADING CONSTRUCTION AND NO SPECIAL PAYMENT WILL BE MADE.
- 6.a.

RESTRICTED AREAS SHALL INCLUDE ALL DESIGNATED TREED AREAS OUTSIDE OF THE DESIGNATED CONSTRUCTION ZONE. ALL VEGETATION WITHIN THE RESTRICTED AREAS SHALL REMAIN.
- 6.b.

CONTRACTOR SHALL RESTRICT ALL GRADING AND CONSTRUCTION ACTIVITIES TO AREAS DESIGNATED ON THE PLANS. ACTIVITIES WITHIN THE CONSTRUCTION MAY BE RESTRICTED TO A NARROWER WIDTH IN THE FIELD TO SAVE ADDITIONAL TREES AS DIRECTED BY THE OWNER.
- 6.c.

ACTIVITIES PROHIBITED OUTSIDE OF THE CONSTRUCTION BOUNDARIES WOULD INCLUDE, BUT NOT BE LIMITED TO: SOIL AND OTHER MATERIAL STOCKPILING, EQUIPMENT OR MACHINERY STORAGE, DRIVING OF ANY VEHICLE, LEAKAGE OR SPILLAGE OF ANY "WASHOUT" OR OTHER TOXIC MATERIAL. THE COLLECTION OF OTHER DEBRIS AND SOIL STOCKPILING WILL BE IN AN AREA DETERMINED ON-SITE BY THE ENGINEER.
- 6.d.

ALL RESTRICTED AREAS SHALL BE FENCED OFF WITH SILT FENCE AS NOTED ON THE PLANS.
- 6.e.

BEFORE COMMENCING WITH ANY EXCAVATION CONTRACTOR SHALL COMPLETE ALL PREPARATORY WORK REGARDING TREE REMOVAL, ROOT PRUNING, TREE PRUNING AND STUMP REMOVAL TO THE SATISFACTION OF THE OWNER.
- 6.f.

PREPARATORY WORK SHALL INCLUDE THE FOLLOWING AND SHALL BE COMPLETED UNDER THE DIRECT SUPERVISION OF THE OWNER'S REPRESENTATIVE:
- 6.f.a.

TREE REMOVAL: CONTRACTOR SHALL FELL THE TREES. AT NO TIME SHALL TREES BE BULLDOZED OUT, BUT SHALL BE CUT DOWN AND STUMPS REMOVED SEPARATELY. PRIOR TO THE FELLING OF ALL TREES, PROPER REMOVAL OF A PORTION OR ALL OF THE CANOPY SHALL BE COMPLETED SO THAT TREES IN THE RESTRICTED AREAS SHALL NOT BE INJURED IN THE PROCESS.
- 6.f.b.

ROOT PRUNING: BEFORE ANY STUMPS ARE TO BE REMOVED, ALL ROOTS SHALL BE SEVERED FROM ROOTS IN THE RESTRICTED AREAS BY SAW CUTTING WITH A VERMEER DESIGNED FOR ROOT PRUNING, BY HAND, OR WITH A CHAINSAW. TREE ROOTS PROJECTING INTO THE CONSTRUCTION ZONE SHALL BE EXPOSED PRIOR TO ROOT PRUNING WITH SMALL MACHINERY, I.E.,, BOBCAT.
- 6.f.c.

STUMP REMOVAL: AT SUCH TIME THAT ROOTS HAVE BEEN PROPERLY SEVERED, STUMPS MAY BE REMOVED. WHERE REMOVAL OF CERTAIN STUMPS COULD CAUSE DAMAGE TO EXISTING PROTECTED TREES, TREE STUMPS SHALL BE GROUND OUT. ALL STUMP REMOVAL SHALL BE UNDER THE DIRECT SUPERVISION OF THE OWNEN'S REPRESENTATIVE.
- 6.f.d.

TREE PRUNING: PROPER PRUNING OF TREES IN THE RESTRICTED ZONE SHALL BE DIRECTED BY AND SUPERVISION AT ALL TIMES BY THE OWNER'S REPRESENTATIVE.
- 6.g.

AN OWNER'S REPRESENTATIVE WILL BE AVAILABLE AT ALL TIMES DURING THE PREPARATORY AND CONSTRUCTION PERIOD.
- 6.h.

MULCH RATHER THAN SEED OR SOD WILL BE USED AT THE BASE OF QUALITY TREES TO A PERIMETER DETERMINED BY THE OWNER'S REPRESENTATIVE. AREAS TO BE SEEDED FOR EROSION CONTROL PURPOSES WITHIN THE CONSTRUCTION ZONE ARE TO BE DETERMINED BY THE OWNER'S REPRESENTATIVE. NATURAL GROUND COVER WILL BE MAINTAINED WHEREVER POSSIBLE.

DEMOLITION NOTES

1.

DEMOLITION NOTES ARE NOT COMPREHENSIVE. CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION TO OBTAIN A CLEAR UNDERSTANDING OF THE INTENDED SCOPE OF WORK.
2.

THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION, REMOVAL, AND DISPOSING IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES AND IN ACCORDANCE WITH APPLICABLE CODES, OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE GEOTECHNICAL REPORT AND/OR GEOTECHNICAL ENGINEER.
3.

CLEARING AND GRUBBING: CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
4.

CONTRACTOR IS RESPONSIBLE FOR THE DISCONNECTION OF UTILITY SERVICES TO EXISTING BUILDINGS PRIOR TO DEMOLITION OF THE BUILDINGS.
5.

CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO REMOVAL AND/OR RELOCATION OF UTILITIES. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANIES' FORCES AND ANY FEES WHICH ARE TO BE PAID TO UTILITY COMPANIES FOR SERVICES. CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
6.

THE MAPPING LOCATION OF ALL EXISTING SEWERS, PIPING, AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH WORK. UTILITIES DETERMINED TO BE ABANDONED SHALL BE REMOVED IF UNDER THE BUILDING INCLUDING 10' BEYOND FOUNDATIONS.
7.

ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN THE ROAD RIGHT OF WAY DURING CONSTRUCTION.
8.

CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., TO THE BEST PRACTICES.
9.

CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
10.

PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED AND APPROVED BY THE LOCAL AUTHORITY.
11.

CONTRACTOR SHALL LIMIT SAW-CUT & PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
12.

CONTRACTOR TO PROTECT EXISTING FEATURES WHICH ARE TO REMAIN. DAMAGE TO ANY EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.

LEGEND

EXISTING FEATURES	
	PROPERTY LINE
	ROAD RIGHT OF WAY
	EDGE OF EXISTING ROAD
	STORM CULVERT
	DRAIN TILE
	UNDERGROUND ELECTRIC
	OVERHEAD ELECTRICAL
	POWER POLE
	MAJOR CONTOUR
	MINOR CONTOUR
	TREE LINE
	WETLAND
	SOIL BOUNDARY

PROPOSED FEATURES	
	AGGREGATE ROAD BASE
	AGGREGATE BASE - LAYDOWN YARD
	PERIMETER SECURITY FENCE
	TEMPORARY FENCE
	SETBACK LINE
	LEASE BOUNDARY
	CMP CULVERT
	MAJOR CONTOUR
	MINOR CONTOUR
	PROPOSED POWER POLE & LINE

EROSION CONTROL FEATURES	
	SILT FENCE
	BIO LOG
	ROCK CONSTRUCTION ENTRANCE
	EROSION CONTROL BLANKET

REMOVALS	
	TREE REMOVAL

REVISIONS	
	REVISION NUMBER
	REVISION CLOUD

GRADING NOTES

1.

PROPOSED CONTOURS ARE TO FINISHED SURFACE ELEVATION.
2.

CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
3.

SAFETY NOTICE TO CONTRACTORS: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE ENGINEER OR THE DEVELOPER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON OR NEAR THE CONSTRUCTION SITE.
4.

CONTRACTOR SHALL COMPLETE DEWATERING AS REQUIRED TO COMPLETE THE SITE GRADING CONSTRUCTION.
5.

PRIOR TO PLACEMENT OF THE AGGREGATE BASE, A TEST ROLL SHALL BE PERFORMED ON THE STREET AND PARKING AREA SUBGRADE. CONTRACTOR SHALL PROVIDE A LOADED TANDEM AXLE TRUCK WITH A GROSS WEIGHT OF 25 TONS. THE TEST ROLLING SHALL BE AT THE DIRECTION OF THE SOILS ENGINEER AND SHALL BE COMPLETED IN AREAS AS DIRECTED BY THE SOILS ENGINEER. CORRECTION OF THE SUBGRADE SOILS SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SOILS ENGINEER.
6.

REPLACE ALL SUBGRADE SOIL DISTURBED DURING THE CONSTRUCTION THAT HAVE BECOME UNSUITABLE AND WILL NOT PASS A TEST ROLL. REMOVE UNSUITABLE SOIL FROM THE SITE AND IMPORT SUITABLE SOIL AT NO ADDITIONAL COST TO THE OWNER.
7.

EXCAVATE TOPSOIL FROM AREAS TO BE FURTHER EXCAVATED OR REGRADED AND STOCKPILE IN AREAS DESIGNATED ON THE SITE. CONTRACTOR SHALL SALVAGE ENOUGH TOPSOIL FOR RESPREADING ON THE SITE AS SPECIFIED. EXCESS TOPSOIL SHALL BE PLACED IN EMBANKMENT AREAS, OUTSIDE OF EQUIPMENT PADS, ROADWAYS AND THE ARRAY LAYOUTS.
8.

TRENCH BORROW CONSTRUCTION: IF ALLOWED BY THE OWNER, CONTRACTOR SHALL COMPLETE "TRENCH BORROW" EXCAVATION IN AREAS DIRECTED BY THE ENGINEER IN ORDER TO OBTAIN STRUCTURAL MATERIAL. TREES SHALL NOT BE REMOVED OR DAMAGED AS A RESULT OF THE EXCAVATION, UNLESS APPROVED BY THE ENGINEER. THE EXCAVATION SHALL COMMENCE A MINIMUM OF 10 FEET FROM THE LIMIT OF THE BUILDING PAD. THE EXCAVATION FROM THIS LIMIT SHALL EXTEND AT A MINIMUM SLOPE OF 1 FOOT HORIZONTAL TO 1 FOOT VERTICAL (1:1) DOWNWARD AND OUTWARD FROM THE FINISHED SURFACE GRADE ELEVATION. THE TRENCH BORROW EXCAVATION SHALL BE BACKFILLED TO THE PROPOSED FINISHED GRADE ELEVATION, AND SHALL BE COMPACTED IN ACCORDANCE WITH REQUIREMENTS OF THE QUALITY COMPACTION METHOD AS OUTLINED IN MN/DOT SPECIFICATION 2105.3f2. SNOW FENCE SHALL BE FURNISHED AND PLACED ALONG THE PERIMETER OF THE TRENCH BORROW AREA WHERE THE SLOPES EXCEED 2 FOOT HORIZONTAL TO 1 FOOT VERTICAL (2:1).
9.

FINISHED GRADING SHALL BE COMPLETED, CONTRACTOR SHALL UNIFORMLY GRADE AREAS WITHIN LIMITS OF GRADING, INCLUDING ADJACENT TRANSITION AREAS. PROVIDE A SMOOTH FINISHED SURFACE WITHIN SPECIFIED TOLERANCES, WITH UNIFORM LEVELS OR SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE SHOWN, OR BETWEEN SUCH POINTS AND EXISTING GRADES. AREAS THAT HAVE BEEN FINISHED GRADED SHALL BE PROTECTED FROM SUBSEQUENT CONSTRUCTION OPERATIONS, TRAFFIC AND EROSION. REPAIR ALL AREAS THAT HAVE BECOME RUTTED, ERODED OR HAS SETTLED BELOW THE CORRECT GRADE. ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO EQUAL OR BETTER THAN ORIGINAL CONDITION OR TO THE REQUIREMENTS OF THE NEW WORK. CONTRACTOR MUST REGRADE/RECOMPACT ACCESS ROAD AS FINAL RESTORATION.
10.

TOLERANCES

10.a. THE EQUIPMENT PAD SUBGRADE FINISHED SURFACE ELEVATION SHALL NOT VARY BY MORE THAN 0.10 FOOT ABOVE, OR 0.10 FOOT BELOW, THE PRESCRIBED ELEVATION AT ANY POINT WHERE MEASUREMENT IS MADE.
11.

CONTRACTOR SHALL USE THE PROPOSED ACCESS ROADS FOR HAULING OF MATERIALS REQUIRED TO COMPLETE THE SOLAR INSTALLATION. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE GOVERNING AUTHORITY OF EACH PUBLIC ROADWAY. FOR OFFSITE MATERIAL TRANSPORT CONTRACTOR SHALL POST WHATEVER SECURITY, AND COMPLY WITH ALL CONDITIONS WHICH ARE REQUIRED BY EACH GOVERNING AUTHORITY OF EACH ROADWAY.
12.

WETLAND AREAS DESIGNATED TO BE PROTECTED SHALL BE AVOIDED, ANY WETLAND AREAS DAMAGED BY SITE OPERATIONS SHALL BE RESTORED AS REQUIRED BY THE JURISDICTIONAL AGENCY.

ZONING REQUIREMENTS

1.

APPROVALS

IN PROCESS
2.

DIMENSIONAL STANDARDS

FRONT YARD SETBACK-FROM ROAD CENTERLINE125'
SIDE YARD SETBACK100'
REAR YARD SETBACK100'
STRUCTURE HEIGHT15'
3.

PROJECT SCHEDULE

SPECIFICS OF HOW WORK IS TO BE COMPLETED SHALL ALSO BE BASED ON ENVIRONMENTAL CONSIDERATIONS ASSOCIATED WITH SEASONAL CHANGES. THE FOLLOWING DATES ARE PROVIDED TO ESTABLISH A GENERAL GUIDELINE FOR THESE SEASONS:

WINTER	NOVEMBER 1 TO MARCH 15
MUD SEASON	MARCH 20 TO APRIL 30
SPRING	MAY 1 TO JUNE 21
SUMMER	JUNE 22 TO SEPTEMBER 21
FALL	SEPTEMBER 22 TO OCTOBER 31

EARTHWORK NOTES

1.

SITE CLEARING AND GRUBBING IS AS FOLLOWS:

1.a.

STANDARD CLEARING AND GRUBBING: SUBCONTRACTOR SHALL CLEAR AND GRUB ALL AREAS (EXCEPT IN WETLANDS) OF PROJECT SITE WITHIN PERIMETER FENCING, REMOVING ALL VEGETATION HIGHER THAN 3" AND OTHER DELETERIOUS MATERIALS. SUBCONTRACTOR SHALL GRADE OUT MINOR TOPOGRAPHIC UNDULATIONS, MOUNDS, AND DEPRESSIONS, AS NECESSARY, TO PRODUCE A SMOOTH, SAFE WORKING SURFACE FOR PLANT CONSTRUCTION AND OPERATIONS.

1.b.

TEMPORARY WETLAND DISTURBANCE: SUBCONTRACTOR MAY PERFORM TEMPORARY WETLAND DISTURBANCES WHICH SHALL INCLUDE CLEARING BUT NOT STUMP REMOVAL. THESE INDIRECT WETLAND DISTURBANCES MAY OCCUR WITHIN PERIMETER FENCING OR JUST OUTSIDE OF PERIMETER FENCING FOR SHADE MANAGEMENT PURPOSES.

1.c.

PERMANENT WETLAND DISTURBANCE: WHERE EXPLICITLY APPROVED AND NECESSARY, THE SUBCONTRACTOR MAY PERFORM CLEARING AND GRUBBING WITHIN WETLANDS. THIS MAY ALSO COME IN THE FORM OF GRADING WITHIN WETLANDS. GRADING OR GRUBBING WITHIN WETLANDS SHALL BE CONSIDERED A PERMANENT WETLAND IMPACT AND SHALL COUNT TOWARDS THE TOTAL DIRECT IMPACTS ALLOWED BY THE AUTHORITY HAVING JURISDICTION.

1.d.

SUBCONTRACTOR SHALL CLEAR AND GRUB, STRIP AND REMOVE TOPSOIL, VEGETATION, AND OTHER DELETERIOUS ORGANIC MATERIAL FROM PROPOSED EQUIPMENT PADS, ROADWAYS, AND AREAS TO RECEIVE FILL. STOCKPILE TOPSOIL AND IMMEDIATELY STABILIZE UNTIL RE-SPREAD FOR USE TO RE-VEGETATE DISTURBED AREAS AFTER GRADING OPERATIONS ARE COMPLETE.
2.

SUBGRADE PREPARATION FOR EQUIPMENT PADS, SPREAD FOOTINGS, AND ROADWAYS IS AS FOLLOWS:

2.a.

SCARIFY TO A MINIMUM DEPTH OF 12 INCHES.

2.b.

MOISTURE CONDITION SOILS TO BETWEEN 1% BELOW AND 3% ABOVE OPTIMUM MOISTURE CONTENT.

2.c.

COMPACT TO A MINIMUM OF 95% OF STANDARD PROCTOR MAXIMUM DENSITY. EXCAVATION SHALL EXTEND 5' BEYOND EXTENTS OF IMPROVEMENTS FOR PADS OR FOOTINGS.

2.d.

PROOF ROLL WITH FULLY LOADED DUMP TRUCK OR OTHER SIMILARLY WEIGHTED PNEUMATIC TIRED EQUIPMENT.

2.e.

UNSTABLE AREAS IDENTIFIED DURING PROOF ROLL SHOULD BE EXCAVATED A MINIMUM OF 12 INCHES AND RE-STABILIZED.
3.

SUBGRADE PREPARATION FOR NON-STRUCTURAL FILL AREAS SHALL CONSIST OF COMPACTION TO 90% OF STANDARD PROCTOR MAXIMUM DENSITY.
- FILL PLACEMENT

1.

ENGINEERED FILL - SOILS CLASSIFIED AS GW, GP, GM, GC, SW, SP, SM, SC, ML, AND CL BY THE USCS ARE ACCEPTABLE FOR USE AS STRUCTURAL FILL. MOST ON-SITE SOILS ARE EXPECTED TO BE SUITABLE FOR USE AS ENGINEERED FILL IF THEY ARE FREE OF ORGANIC SOIL AND DEBRIS.

2.

SELECT GRANULAR FILL - GRANULAR, WELL GRADED MATERIAL WITH NO ORGANICS. A MAXIMUM PARTICLE SIZE OF 2 INCHES, AND LESS THAN 12 PERCENT PASSING THE U.S. NO. 200 SEIVE.

3.

IN THE EVENT CLAY FILL IS ENCOUNTERED, CLAY FILL SHALL BE MOISTENED TO BETWEEN 1 PERCENT BELOW AND 3 PERCENT ABOVE OPTIMUM MOISTURE CONTENT. SAND FILL SHALL BE MOISTENED TO BETWEEN 3 PERCENT BELOW AND 3 PERCENT ABOVE OPTIMUM MOISTURE CONTENT.

4.

FILL SHALL BE PLACED IN LIFTS OF LESS THAN 8 INCHES LOOSE DEPTH AND COMPACTED TO AT LEAST 90% OF STANDARD PROCTOR MAXIMUM DENSITY PER ASTM D698.

5.

TRENCH BACKFILL FOR PROPOSED CULVERT OR POND OUTLET SHALL BE COMPACTED TO AT LEAST 85 PERCENT OF STANDARD PROCTOR MAXIMUM DENSITY, EXCEPT IN STRUCTURAL AREAS WHICH SHALL BE COMPACTED TO 95 PERCENT.
- EARTHWORK BALANCE

THE INTENTION OF THE GRADING DESIGN IS TO BALANCE THE EARTHWORK ON SITE WITHOUT THE NEED FOR IMPORT OR EXPORT. THE CONTRACTOR SHALL FIELD ADJUST CUT AND FILL AS NECESSARY TO CREATE A BALANCED SITE WITHOUT NEGATIVELY IMPACTING DRAINAGE PATTERNS OR INCREASING MAXIMUM SLOPES.
- AGGREGATES

1.

AGGREGATE BASE AND COARSE AGGREGATE SHALL BE MOISTENED TO WITHIN 2 PERCENT OF OPTIMUM MOISTURE CONTENT AND COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR MAXIMUM DENSITY. PROOF ROLL WITH FULLY LOADED DUMP TRUCK OR OTHER SIMILARLY WEIGHTED PNEUMATIC TIRED EQUIPMENT.
- AGGREGATE GRADATION - SHALL COMPLY WITH THE GRADATION REQUIREMENTS OF TABLE 3138-3, CLASS 5, OF SECTION 3126 "AGGREGATE", OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
- RIP RAP GRADATION - SHALL COMPLY WITH THE GRADATION REQUIREMENTS OF CLASS 1 RIP RAP, SECTION 3601 OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.

GEOTEXTILE FABRIC

IF SITE CONDITIONS WARRANT USE OF A GEOTEXTILE FABRIC, CONTRACTOR SHALL USE TENSAR BX1100 OR EQUAL, PER GEOTECH REPORT.

EROSION CONTROL BLANKET

EROSION CONTROL BLANKET SHALL CONFORM TO MNDOT APPROVED/QUALIFIED PRODUCTS LIST, EROSION CONTROL BLANKETS, CATEGORY 3.

TESTING REQUIREMENT NOTES

DEFINITION

1.

CONTRACTOR SHALL COMPLETE THE SITE GRADING CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER'S SOILS ENGINEER. ALL SOIL TESTING SHALL BE COMPLETED BY THE OWNER'S SOILS ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED SOIL TESTS AND INSPECTIONS WITH THE SOILS ENGINEER.
2.

SUBGRAGE PROOFROLLING TEST SHALL BE CONSIDERED ACCEPTABLE IF RUTTING IS NO GREATER THAN 3", AND NO "PUMPING" OF THE SOIL BEHIND THE PROOF ROLL.
3.

STANDARD PROCTOR DENSITY TESTS SHALL BE IN CONFORMANCE WITH ASTM D698.
4.

SOIL DENSITY IN PLACE TESTING SHALL BE IN CONFORMANCE WITH ASTM D2922.
5.

MOISTURE CONTENT TEST OF IN PLACE SOIL SHALL BE IN CONFORMANCE WITH ASTM D3017.

EXECUTION

1.

COMPACTED SUBGRADE IN STRUCTURAL AREAS SHALL BE TESTED AS FOLLOWS:

1.1.

ONE TEST PER 200 LF OF ROAD.

1.2.

ONE TEST PER ELECTRICAL EQUIPMENT PAD
2.

FILL MATERIAL SHALL BE TESTED AT A MINIMUM ONCE PER SOIL TYPE FOR GRAIN SIZE, SOIL CLASSIFICATION, PROCTOR TESTS, AND MOISTURE CONTENT. FILL PLACEMENT SHALL BE TESTED FOR DENSITY AT A MINIMUM OF ONE TEST PER 2,500 SF PER LIFT.
3.

AGGREGATE BASE DENSITY SHALL BE TESTED BY PROOF ROLLING WITH A FULLY LOADED DUMP TRUCK (MINIMUM GROSS WEIGHT OF 25 TONS) OR OTHER SIMILARLY WEIGHTED PNEUMATIC TIRED EQUIPMENT. AGGREGATE PROOFROLLING TEST SHALL BE CONSIDERED ACCEPTABLE IF RUTTING IS NO GREATER THAN 3".

3.1.

AT THE COMPLETION OF CONSTRUCTION, RE-GRADE AGGREGATE ROAD SURFACES TO DESIGNED SURFACE PROFILE, ELIMINATING RUTS CAUSED BY CONSTRUCTION TRAFFIC.



2303 Wycliff St, Suite 300
St Paul, MN 55114

info@novelenergy.biz
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Landowner
HARLEN POEHL

1823 US HWY 75 WOLVERTON MN 56594

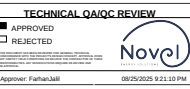
Project
NOVEL CHLOE
SOLAR LLC

Location

46.783236°,
-96.647641°

Certification

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota.
Signature: *Jonathan Powlison*
Name: Jonathan Powlison
Date: 08/25/2025 License Number: 64201



Summary

Designed IG Approved JMP
Phase PERMITTING

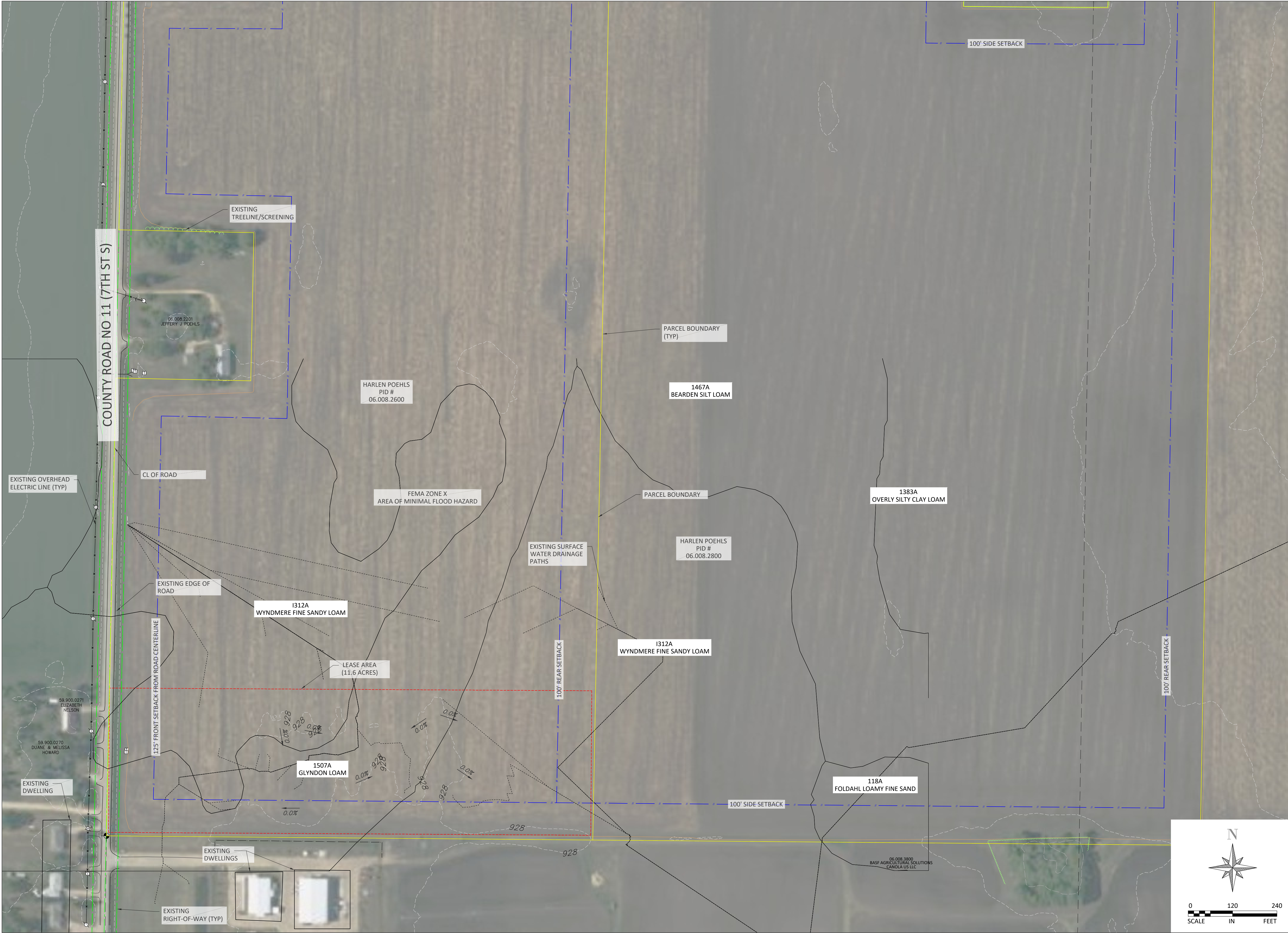
Revisions

No	Date	By	Description
1	1/7/2025	IG	ADDED POND-FENCE HEIGHT ADJUSTED
2	2/7/2025	IG	CULVERTS ADDITION
3	8/29/2025	IG	IFP90 ISSUE-SEE REV NOTES

Sheet Title
NOTES

Sheet No. Rev
C1.02 IFP

PID # 06.008.2600

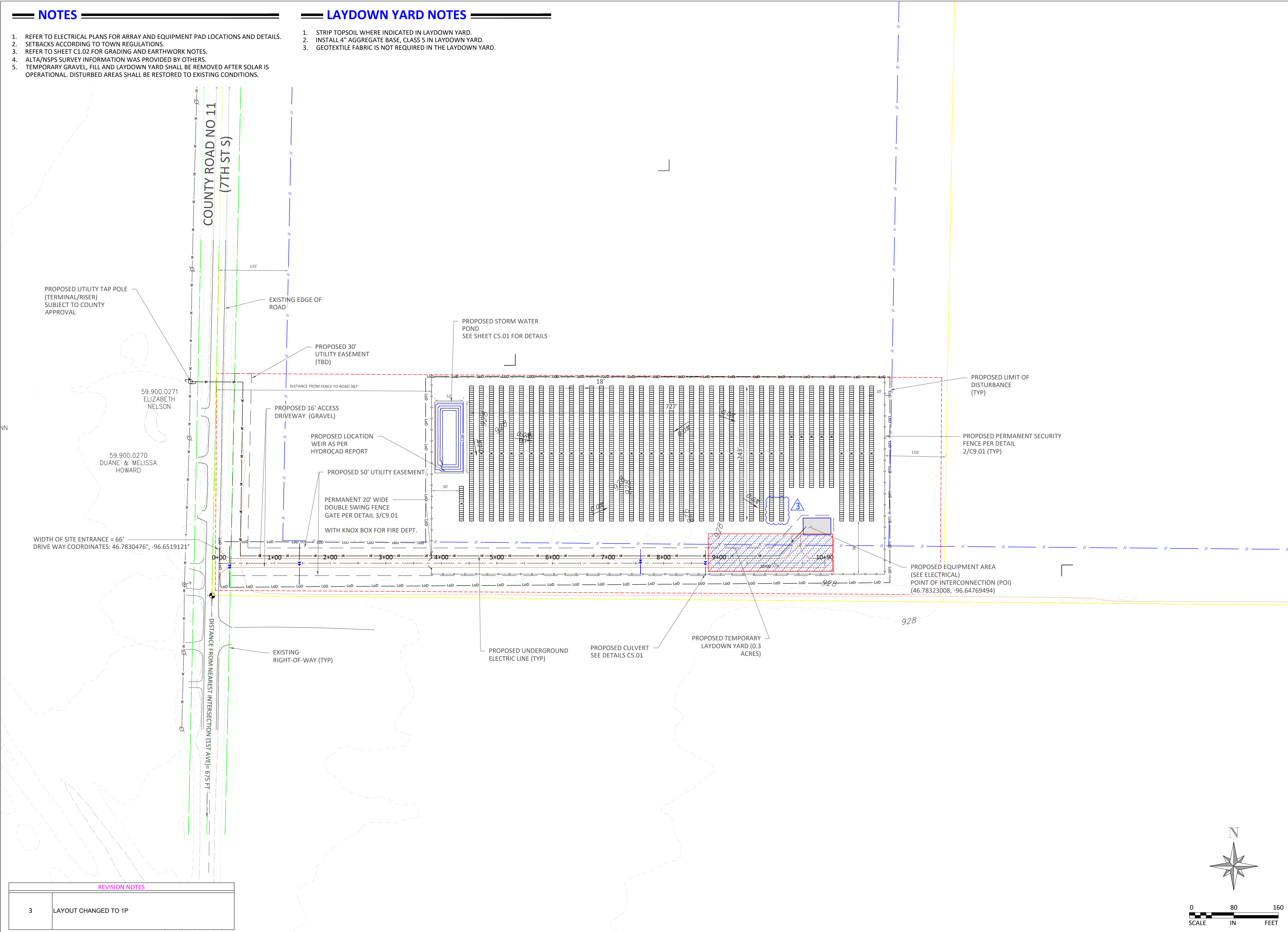


NOTES

-
1. REFER TO ELECTRICAL PLANS FOR ARRAY AND EQUIPMENT PAD LOCATIONS AND DETAILS.
2. SETBACKS ACCORDING TO TOWN REGULATIONS.
3. REFER TO SHEET C1.02 FOR GRADING AND EARTHWORK NOTES.
4. ALTA/NSPS SURVEY INFORMATION WAS PROVIDED BY OTHERS.
5. TEMPORARY GRAVEL, FILL AND LAYDOWN YARD SHALL BE REMOVED AFTER SOLAR IS OPERATIONAL. DISTURBED AREAS SHALL BE RESTORED TO EXISTING CONDITIONS.
- COUNTY ROAD NO 11
(7TH ST S)
- PROPOSED UTILITY TAP POLE
(TERMINAL/ RISER)
SUBJECT TO COUNTY
APPROVAL
- 59.900.0271
ELIZABETH
NELSON
- 59.900.0270
DUANE & MELISSA
HOWARD
- WIDTH OF SITE ENTRANCE = 66'
DRIVE WAY COORDINATES: 46.7830476°, -96.6519121°
- DISTANCE FROM NEAREST INTERSECTION (1ST AVE) = 675 FT
- | REVISION NOTES | |
|----------------|----------------------|
| 3 | LAYOUT CHANGED TO 1P |

LAYDOWN YARD NOTES

- [illegible]



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Landowner
HARLEN POEHLS

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Project
NOVEL CHLOE

Location
46.783236°.

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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer in the State of Florida.

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Name: Jonathan Powlison
Date: 08/25/2025 License Number: 64201



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SITE PLAN

Sheet No. Rev
C3.01 IFP

PID # 06.008.2600

EROSION CONTROL QUANTITIES

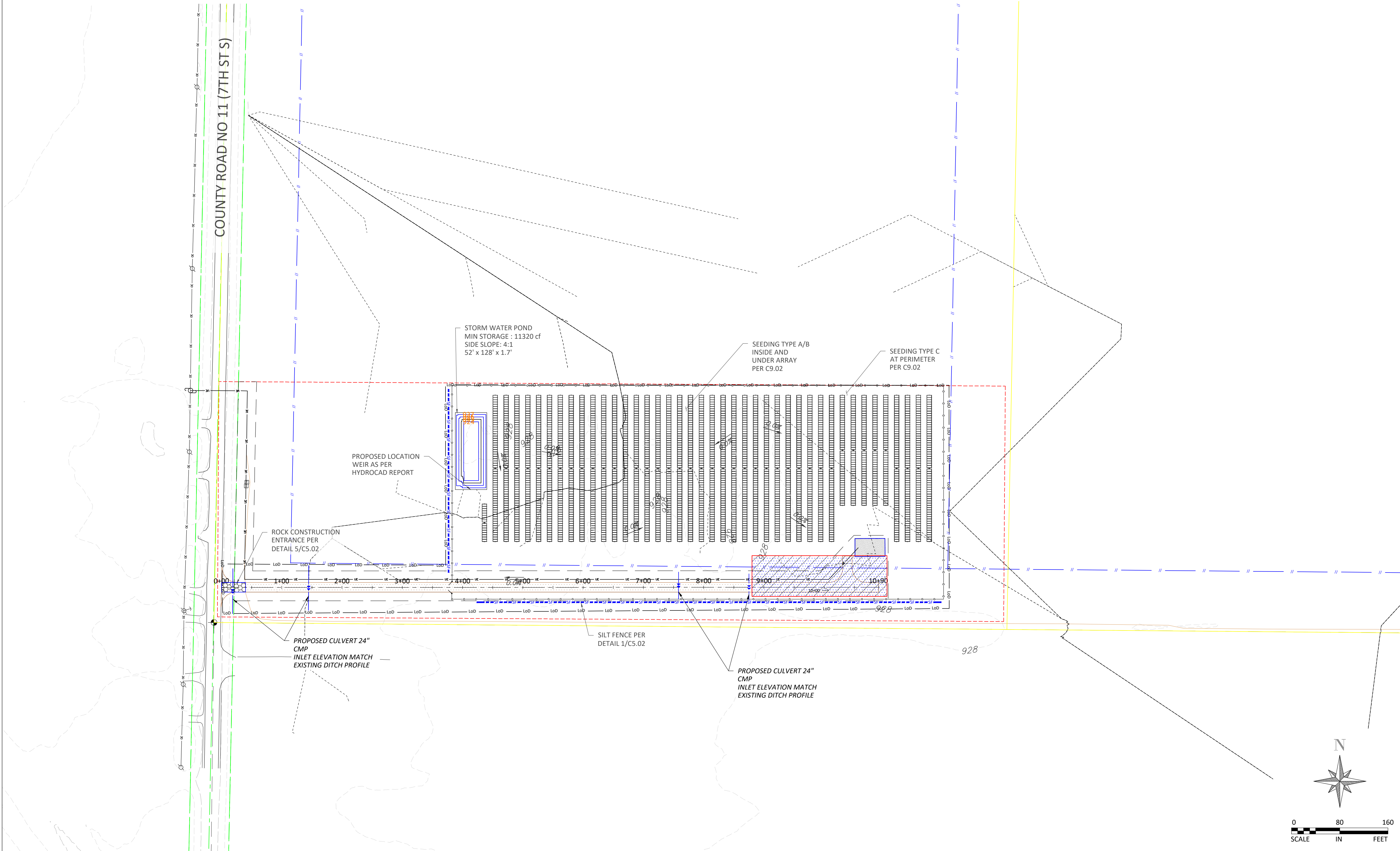
ITEM	QUANTITY	UNIT
SILT FENCE OR BIO-ROLL	1100	LF
BIO-ROLL	0	LF
CONSTRUCTION ENTRANCE	1	EA
EROSION CONTROL BLANKET*	0	SY

NOTES

- REFER TO SHEET C5.02 FOR EROSION CONTROL NOTES AND DETAILS.
- DUST CONTROL MUST BE PROVIDED ON GRAVEL ROAD DURING CONSTRUCTION.
- 24" CMP CULVERTS IS PROVIDED AT THE ENTRANCE OF DRIVE WAY
- THE SITE IS NOT BEING GRADED, ORIGINAL TOPOGRAPHY AND HYDROLOGY WITH MINIMUM SLOPES (RANGES FROM 0 TO 0.5%) AS SHOWN WILL REMAIN AS IS, WATER FROM RECTANGULAR WEIR WILL FOLLOW THE NATURAL PATH OF WATER CHANNEL AND TOWARDS THE ROAD, CULVERT IS PLACED IN THE LOCATION WHERE THE WATER CHANNEL PASSES THROUGH ROAD.
- THE SURFACE HAS MINIMAL SLOPES RANGING FROM 0 TO 0.5%, AND NO WATER FLOW CHANNEL IS OBSERVED FROM THE SOUTHEAST OF THE BUILDINGS. HOWEVER, AS A SAFETY MEASURE, TWO CULVERTS ARE PROPOSED TO ENSURE THAT THE NATURAL WATER FLOW IS NOT OBSTRUCTED DUE TO THE ROAD CONSTRUCTION.

CIVIL IMPACT QUANTITIES

ITEM	SQFT	ACRES
IMPERVIOUS AREA	19,645	0.45
DISCONNECTED IMPERVIOUS AREA	73,225	1.68
OCCUPIED AREA	295,557	6.79
TREE REMOVAL AREA	0	0.00
TEMP WETLAND IMPACT AREA	0	0.00
PERM WETLAND IMPACT AREA	0	0.00
FENCED AREA	289,173	6.64
AREA OF PANELS	71,229	1.64
DISTURBED AREA	341,910	7.85



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Sheet Title
**EROSION
CONTROL
PLAN**

Sheet No. Rev
C5.01 IFP

PID # 06.008.2600

SEQUENCE OF CONSTRUCTION

1. INSTALL STABILIZED CONSTRUCTION ENTRANCES.
2. CONSTRUCT THE SILT FENCES ON THE SITE.
3. INSTALL RIPRAP AROUND OUTLET STRUCTURES.
4. PREPARE SITE FOR CONSTRUCTION.
5. PILE DRIVING FOR SOLAR FEATURES, AND TRENCHING FOR UNDERGROUND UTILITIES WILL COMMENCE, AND CONCRETE PADS WILL BE POURED.
6. RACKING AND SOLAR MODULES WILL BE INSTALLED ON PILES.
7. COVER ACCESS ROAD WITH GRAVEL.
8. RESTABILIZE DISTURBED AREAS.
9. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER SITE HAS BEEN STABILIZED, IF REQUIRED BY CONTRACT.

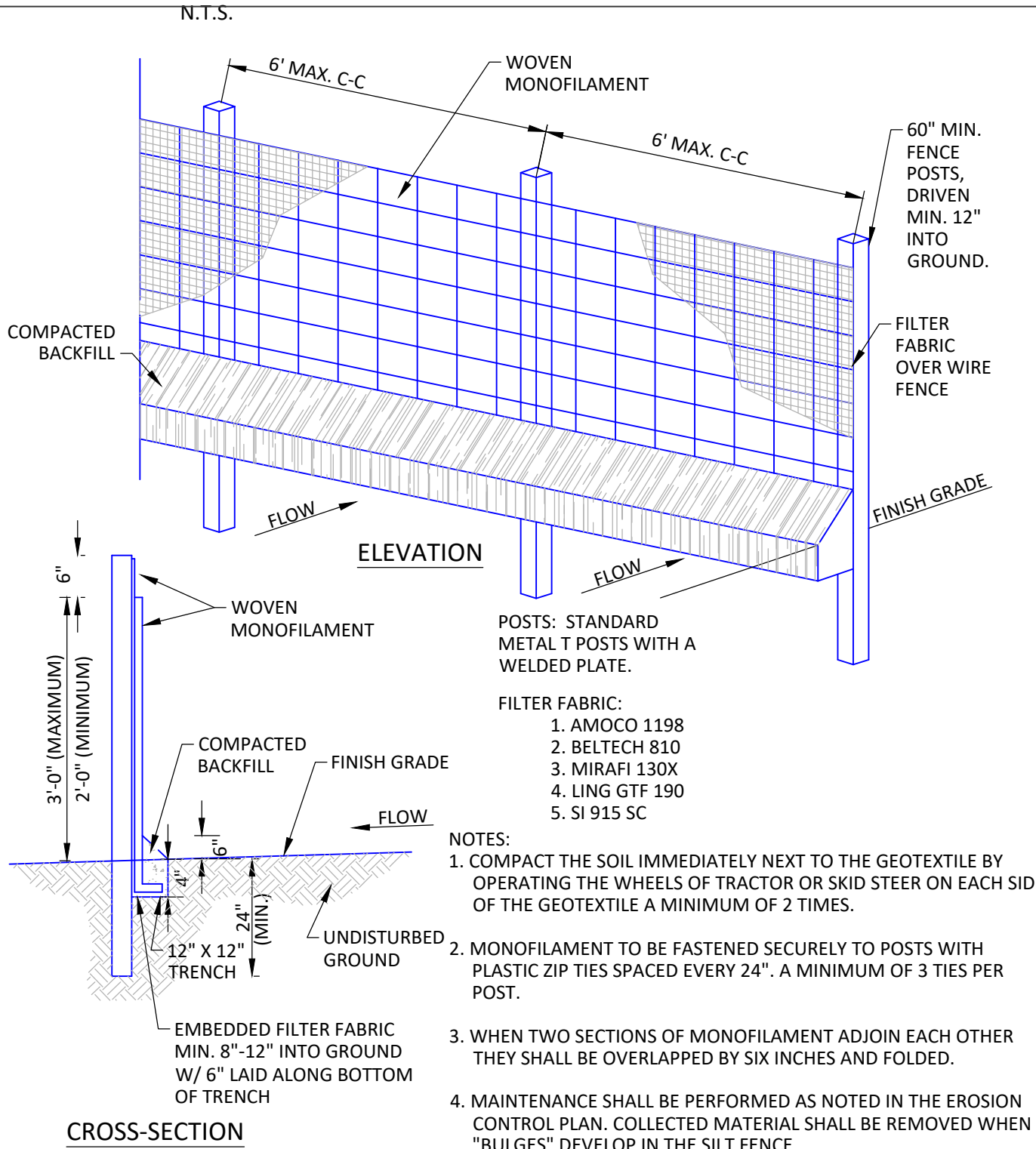
EROSION CONTROL NOTES

1. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME. WHERE A CONFLICT EXISTS BETWEEN LOCAL JURISDICTIONAL STANDARD SPECIFICATIONS AND NES STANDARD SPECIFICATIONS, THE MORE STRINGENT SPECIFICATION SHALL APPLY.
2. THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS COMPRISED OF THIS DRAWING (EROSION & SEDIMENTATION CONTROL PLAN-ESC PLAN), THE STANDARD DETAILS, THE PLAN NARRATIVE, AND ITS APPENDICES, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING & SUBMITTING THE APPLICATION FOR THE MPCA GENERAL STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE SWPPP AND THE STATE OF MINNESOTA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THE CONTENTS. THE SWPPP AND ALL OTHER RELATED DOCUMENTS MUST BE KEPT AT THE SITE DURING CONSTRUCTION.
4. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (BMP'S) AS REQUIRED BY THE SWPPP & PERMITS. CONTRACTOR SHALL OVERSEE THE INSPECTION & MAINTENANCE OF THE BMP'S AND EROSION PREVENTION FROM BEGINNING OF CONSTRUCTION AND UNTIL CONSTRUCTION IS COMPLETED, IS APPROVED BY ALL AUTHORITIES, AND THE NOTICE OF TERMINATION (NOT) HAS BEEN FILED WITH THE STATE'S DEPARTMENT OF ENVIRONMENTAL PROTECTION BY EITHER THE OWNER OR OPERATOR AS APPROVED ON PERMIT. ADDITIONAL BMP'S SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION. CONTRACTOR SHALL COMPLY WITH TRAINING REQUIREMENTS IN PART III.A.2 OF THE GENERAL PERMIT.
5. BMP'S AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
6. ESC PLAN MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
7. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THE ESC PLANS SHALL BE CLEARLY DELINEATED (E.G. WITH FLAGS, STAKES, SIGNS, SILT FENCE, ETC.) ON THE DEVELOPMENT SITE BEFORE WORK BEGINS. GROUND DISTURBING ACTIVITIES MUST NOT OCCUR OUTSIDE THE LIMITS OF DISTURBANCE.
8. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
9. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) MUST BE LIMITED TO A DEFINED AREA OF THE SITE AND SHALL BE CONTAINED AND PROPERLY TREATED OR DISPOSED. NO ENGINE DEGREASING IS ALLOWED ON SITE.
10. ALL LIQUID AND SOLID WASTES GENERATED BY CONCRETE WASHOUT OPERATIONS MUST BE CONTAINED IN A LEAK-PROOF CONTAINMENT FACILITY OR IMPERMEABLE LINER. A COMPACTED CLAY LINER IS NOT ACCEPTABLE. THE LIQUID AND SOLID WASTES MUST NOT CONTACT THE GROUND, AND THERE MUST NOT BE RUNOFF FROM THE CONCRETE WASHOUT OPERATIONS OR AREAS. LIQUID AND SOLID WASTES MUST BE DISPOSED OF PROPERLY AND IN COMPLIANCE WITH MPCA REGULATIONS. A SIGN MUST BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES. SELF-CONTAINED CONCRETE WASHOUTS ON CONCRETE DELIVERY TRUCKS ARE ALLOWED.
11. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
12. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
13. SOLID WASTE: COLLECTED SEDIMENT, ASPHALT & CONCRETE MILLINGS, FLOATING DEBRIS, PAPER, PLASTIC, FABRIC, CONSTRUCTION & DEMOLITION DEBRIS & OTHER WASTES MUST BE DISPOSED OF PROPERLY & MUST COMPLY WITH MPCA DISPOSAL REQUIREMENTS.
14. HAZARDOUS MATERIALS: OIL, GASOLINE, PAINT & ANY HAZARDOUS SUBSTANCES MUST BE PROPERLY STORED, INCLUDING SECONDARY CONTAINMENT, TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGE. RESTRICTED ACCESS TO STORAGE AREAS MUST BE PROVIDED TO PREVENT VANDALISM. STORAGE & DISPOSAL OF HAZARDOUS WASTE MUST BE IN COMPLIANCE WITH MPCA REGULATIONS.
15. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN, AND IN THE SWPPP, SHALL BE INITIATED AS SOON AS PRACTICABLE AND PRIOR TO SOIL DISTURBING ACTIVITIES UPSLOPE.
16. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS STOPPED SHALL BE TEMPORARILY SEEDED, WITHIN 14 DAYS OF INACTIVITY. SEEDING SHALL BE IN ACCORDANCE WITH MN/DOT SEED MIXTURE NUMBER 21-111 OR 21-112 DEPENDING ON THE SEASON OF PLANTING (SEE MN/DOT SPECIFICATION SECTION 2575.3) SEEDING METHOD AND APPLICATION RATE SHALL CONFORM TO MN/DOT SPECIFICATION SECTION 2575.3. TEMPORARY MULCH SHALL BE APPLIED IN ACCORDANCE WITH MN/DOT SPECIFICATION SECTION 2575.3F1 AND 2575.3G. ALTERNATIVELY, HYDRAULIC SOIL STABILIZER IN ACCORDANCE WITH MN/DOT SPECIFICATION SECTION 2575.3H MAY BE USED IN PLACE OF TEMPORARY MULCH.
17. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY STABILIZED. THESE AREAS SHALL BE STABILIZED IN ACCORDANCE WITH THE TIME TABLE DESCRIBED ABOVE.
18. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT FROM CONVEYANCES & FROM TEMPORARY SEDIMENTATION BASINS THAT ARE TO BE USED AS PERMANENT WATER QUALITY MANAGEMENT BASINS. SEDIMENT MUST BE STABILIZED TO PREVENT IT FROM BEING WASHED BACK INTO THE BASIN, CONVEYANCES, OR DRAINAGEWAYS DISCHARGING OFF-SITE OR TO SURFACE WATERS. THE CLEANOUT OF PERMANENT BASINS MUST BE SUFFICIENT TO RETURN THE BASIN TO DESIGN CAPACITY.
19. ON-SITE & OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BMP'S. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED WITH GENERAL PERMIT REQUIREMENTS.
20. TEMPORARY SOIL STOCKPILES MUST HAVE SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROLS & CANNOT BE PLACED IN SURFACE WATERS, INCLUDING STORMWATER CONVEYANCES SUCH AS CURB & GUTTER SYSTEMS OR CONDUITS & DITCHES.
21. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, CHECK DAMS, INLET PROTECTION DEVICES, ETC.) TO PREVENT EROSION. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
22. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

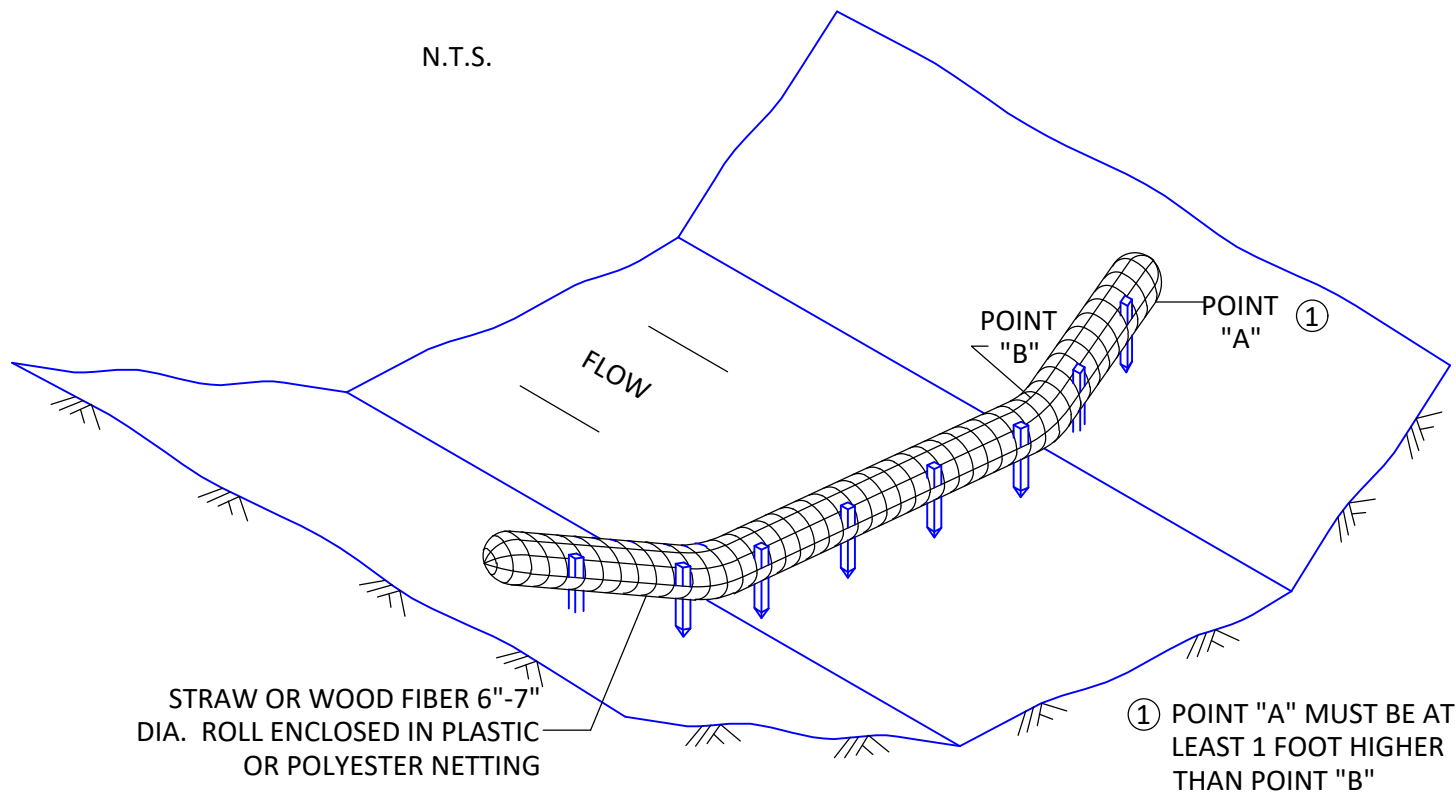
MAINTENANCE NOTES

ALL MEASURES STATED ON THIS EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. THE DESIGNATED CONTACT PERSON NOTED ON THIS PLAN MUST ROUTINELY INSPECT THE CONSTRUCTION ON SITE ONCE EVERY SEVEN DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. ALL SILT FENCES MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES 1/3 OF THE HEIGHT OF THE FENCE. THESE REPAIRS MUST BE MADE WITHIN 24 HOURS OF DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
2. TEMPORARY AND PERMANENT SEDIMENTATION BASINS MUST BE DRAINED AND THE SEDIMENT REMOVED WHEN THE DEPTH OF SEDIMENT COLLECTED IN THE BASIN REACHES 1/2 THE STORAGE VOLUME. DRAINAGE AND REMOVAL MUST BE COMPLETED WITHIN 72 HOURS OF DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS (SEE PART IV.D. OF THE GENERAL PERMIT).
3. SURFACE WATERS, INCLUDING DRAINAGE DITCHES AND CONVEYANCE SYSTEMS, MUST BE INSPECTED FOR EVIDENCE OF SEDIMENT BEING DEPOSITED BY EROSION. CONTRACTOR MUST REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS, INCLUDING DRAINAGE WAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS, AND RESTABILIZE THE AREAS WHERE SEDIMENT REMOVAL RESULTS IN EXPOSED SOIL. THE REMOVAL AND STABILIZATION MUST TAKE PLACE WITHIN SEVEN (7) DAYS OF DISCOVERY UNLESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL ACCESS CONSTRAINTS. CONTRACTOR SHALL USE ALL REASONABLE EFFORTS TO OBTAIN ACCESS. IF PRECLUDED, REMOVAL AND STABILIZATION MUST TAKE PLACE WITHIN SEVEN (7) CALENDAR DAYS OF OBTAINING ACCESS. CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL LOCAL, REGIONAL, STATE AND FEDERAL AUTHORITIES AND RECEIVING ANY APPLICABLE PERMITS, PRIOR TO CONDUCTING ANY WORK.
4. CONSTRUCTION SITE VEHICLE EXIT LOCATIONS MUST BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING ONTO PAVED SURFACES. TRACKED SEDIMENT MUST BE REMOVED FROM ALL OFF-SITE PAVED SURFACES, WITHIN 24 HOURS OF DISCOVERY, OR IF APPLICABLE, WITHIN A SHORTER TIME TO COMPLY WITH PART IV.C.6 OF THE GENERAL PERMIT.
5. CONTRACTOR IS RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF TEMPORARY AND PERMANENT WATER QUALITY MANAGEMENT BMP'S, AS WELL AS ALL EROSION PREVENTION AND SEDIMENT CONTROL BMP'S, FOR THE DURATION OF THE CONSTRUCTION WORK AT THE SITE. THE PERMITTEE(S) ARE RESPONSIBLE UNTIL ANOTHER PERMITTEE HAS ASSUMED CONTROL OVER ALL AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED OR THE SITE HAS UNDERGONE FINAL STABILIZATION, AND A (N.O.T.) HAS BEEN SUBMITTED.
6. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT MUST BE REMOVED IN A MANNER AND AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS (E.G., FUGITIVE SEDIMENT IN STREETS COULD BE WASHED INTO STORM SEWERS BY THE NEXT RAIN AND/OR POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS).
7. ALL INFILTRATION AREAS MUST BE INSPECTED TO ENSURE THAT NO SEDIMENT FROM ONGOING CONSTRUCTION ACTIVITIES IS REACHING THE INFILTRATION AREA AND THESE AREAS ARE PROTECTED FROM COMPACTION DUE TO CONSTRUCTION EQUIPMENT DRIVING ACROSS THE INFILTRATION AREA.

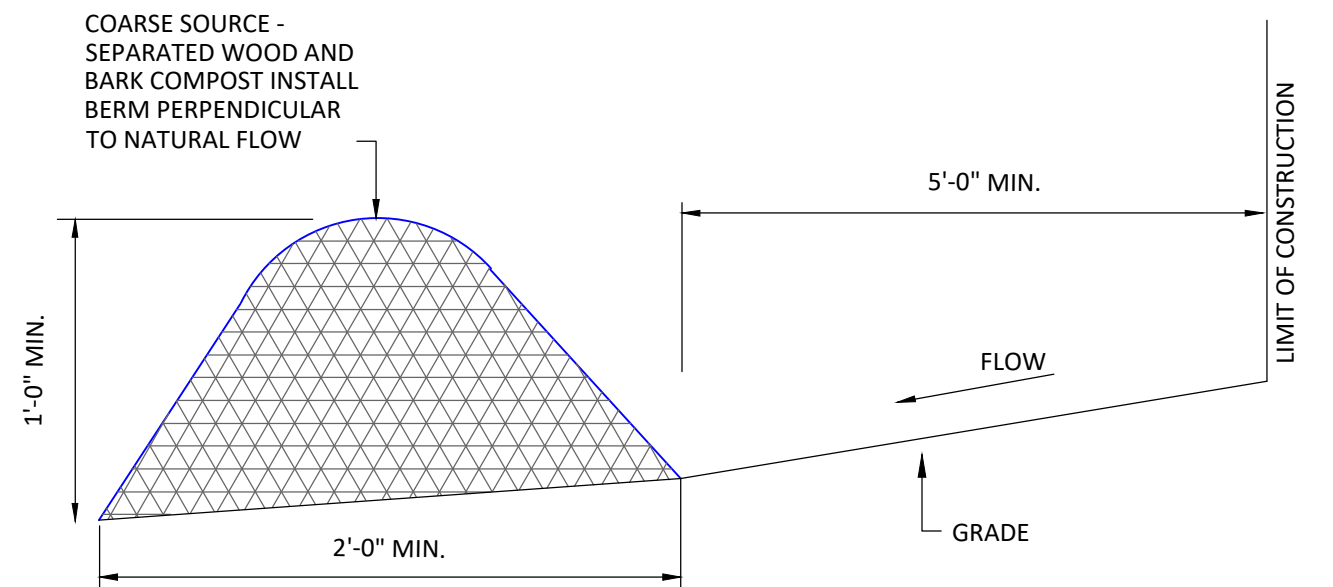


1 MACHINE SLICED SILT FENCE



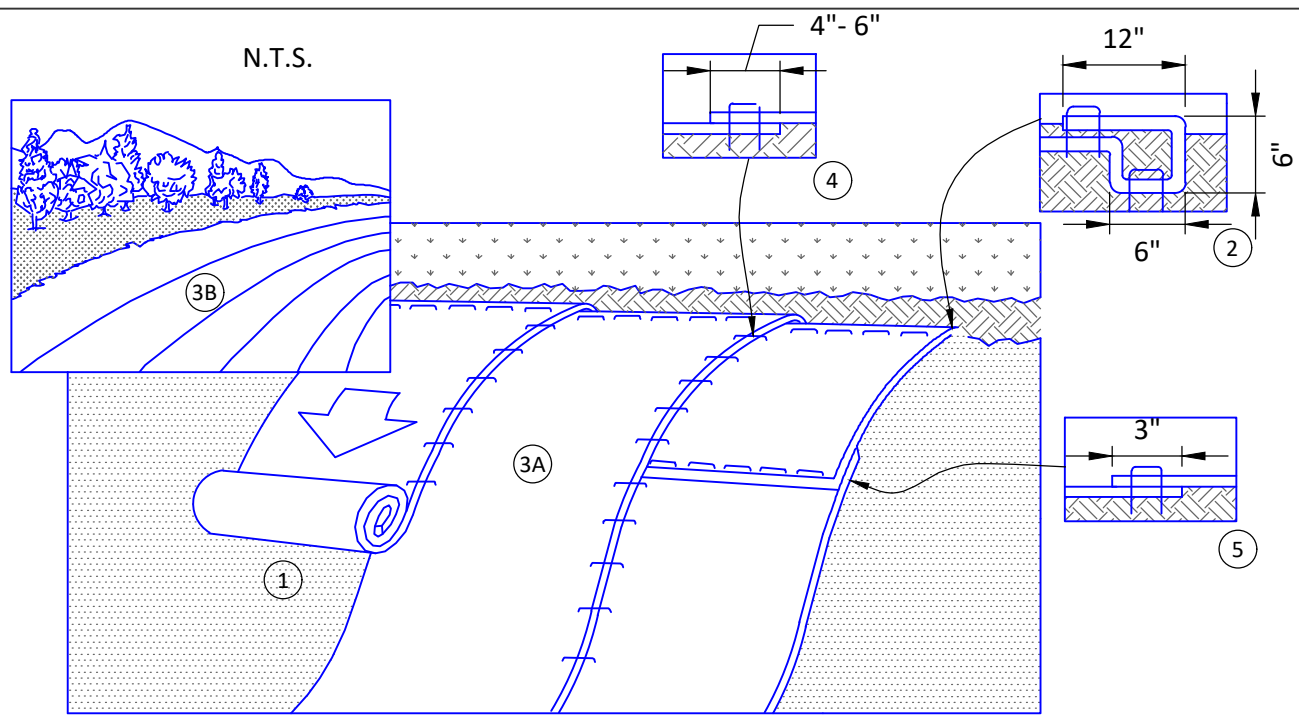
2 BIO ROLL

(MAY BE USED AS AN ALTERNATE TO SILT FENCE OR PLACED UPGRADIENT OF SILT FENCE)



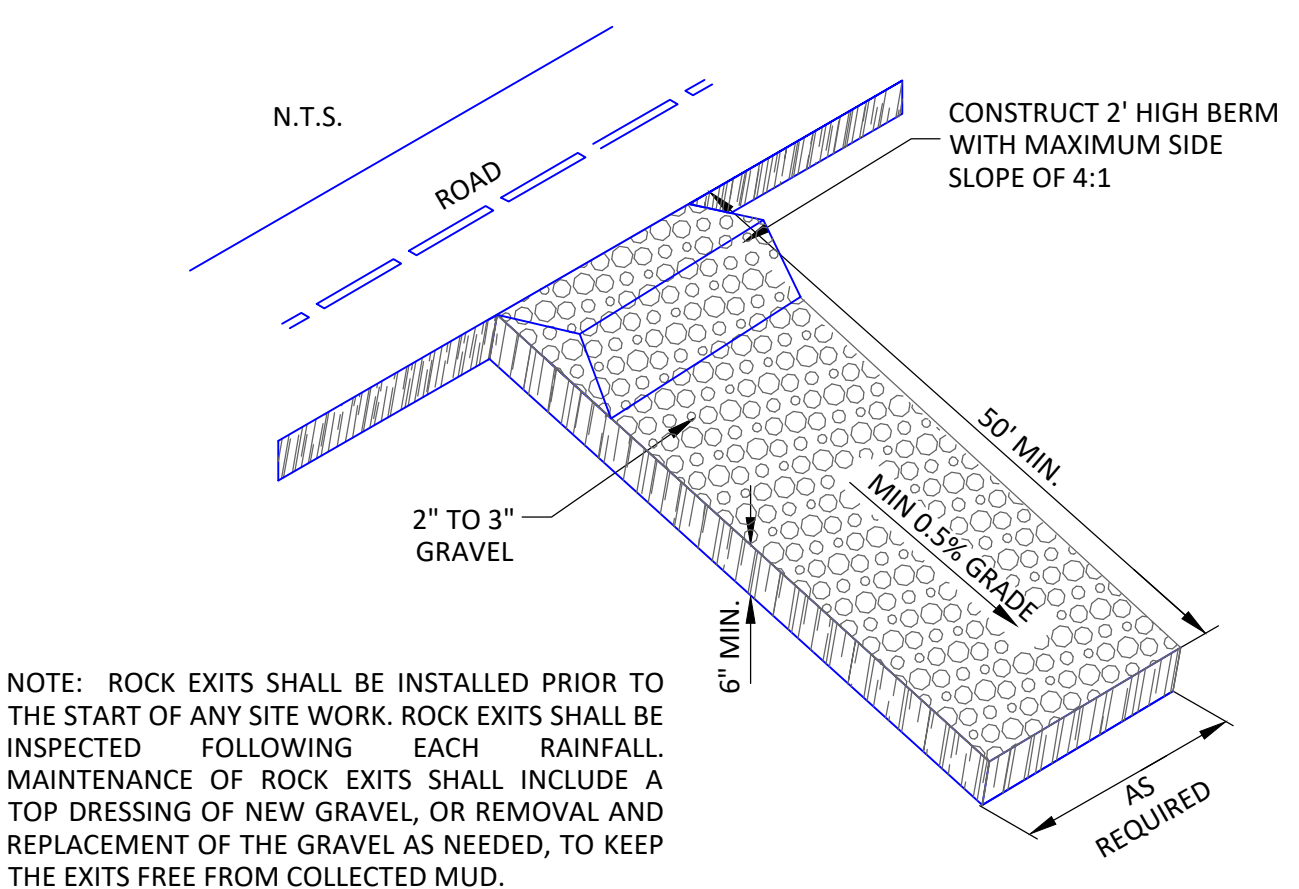
- NOTES:
1. THE EROSION CONTROL MIX MUST BE WELL-GRADED WITH AN ORGANIC COMPONENT THAT IS BETWEEN 50 AND 100% OF DRY WEIGHT, AND THAT IS COMPOSED OF FIBROUS AND ELONGATED FRAGMENTS.
 2. THE MINERAL PORTION OF THE MIX SHOULD BE NATURALLY INCLUDED IN THE PRODUCT WITH NO LARGER ROCKS (>4") OR LARGE AMOUNTS OF FINES (SILTS AND CLAYS).
 3. IN STUMP GRINDING, THE MINERAL SOIL ORIGINATES FROM THE ROOT BALL AND SHOULD NOT BE REMOVED BEFORE GRINDING.
 4. THE MIX SHOULD BE FREE OF REFUSE, MATERIAL TOXIC TO PLANT GROWTH OR UNSUITABLE MATERIAL (BARK CHIPS, GROUND CONSTRUCTION DEBRIS OR REPROCESSED WOOD PRODUCTS).

3 EROSION CONTROL BERM

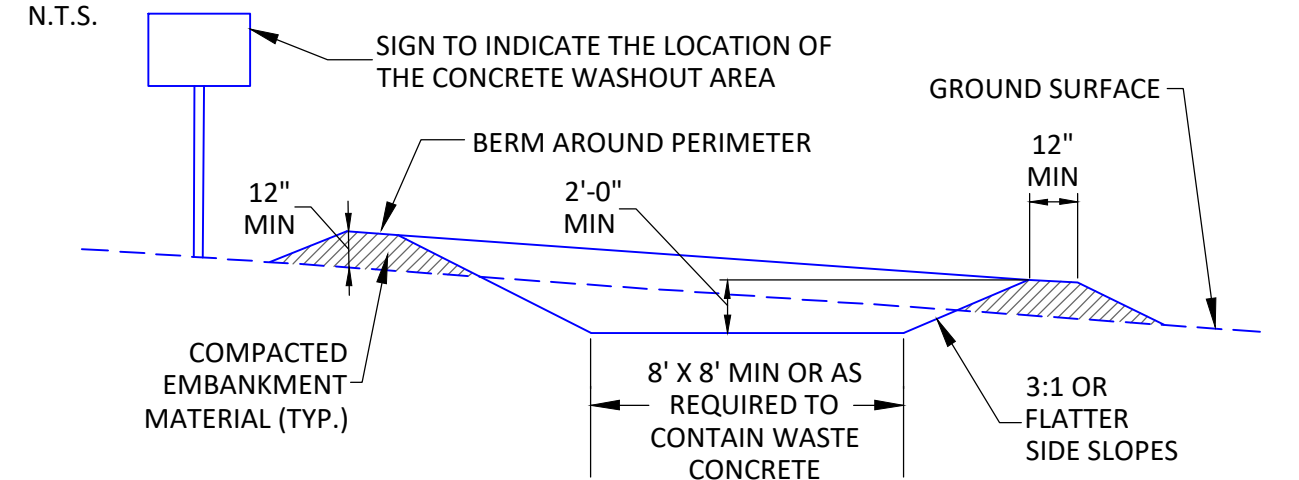


1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
 3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS PER MANUFACTURES RECOMMENDATION.
 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 4"-6" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
 5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
 6. PLACE STAPLES/STAKES PER MANUFACTURE RECOMMENDATION FOR THE APPROPRIATE SLOPE BEING APPLIED.
- NOTES:
1. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
 2. FOLLOW EROSION CONTROL TECHNOLOGY COUNCIL SPECIFICATION FOR PRODUCT SELECTION

4 EROSION CONTROL BLANKET



5 ROCK CONSTRUCTION ENTRANCE



- NOTES:
1. CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
 2. CONCRETE WASHOUT AREA SHALL BE LINED WITH MINIMUM 10 MIL THICK PLASTIC LINER.
 3. VEHICLE TRACKING CONTROL IS REQUIRED IF ACCESS TO CONCRETE WASHOUT AREA IS OFF PAVEMENT.
 4. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
 5. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
 6. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN ACCEPTED WASTE SITE.
 7. WHEN THE CONCRETE WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER ACCEPTED BY THE CITY.

6 CONCRETE WASHOUT AREA



2303 Wycliff St, Suite 300
St Paul, MN 55114

info@novelenergy.biz
612-345-7188 telephone

Landowner

HARLEN POEHL

1823 US HWY 75 WOLVERTON MN 56594

Project

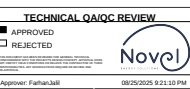
NOVEL CHLOE SOLAR LLC

Location

46.783236°,
-96.647641°

Certification

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota.
Signature: *Jonathan Powlison*
Name: Jonathan Powlison
Date: 08/25/2025 License Number: 64201



Summary

Designed IG Approved JMP
Phase PERMITTING

Revisions

No	Date	By	Description
1	1/7/2025	IG	ADDED POND FENCE HEIGHT ADJUSTED
2	2/7/2025	IG	CULVERTS ADDITION
3	8/29/2025	IG	IFP90 ISSUE-SEE REV NOTES

Sheet Title

EROSION CONTROL NOTES

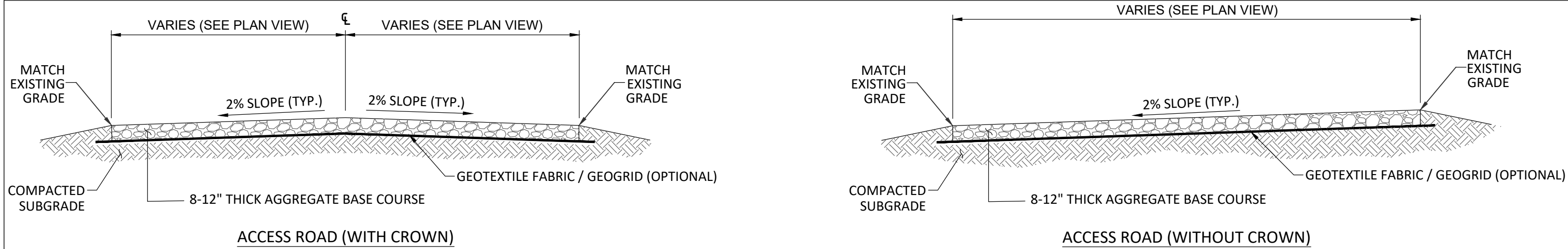
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C5.02

Rev

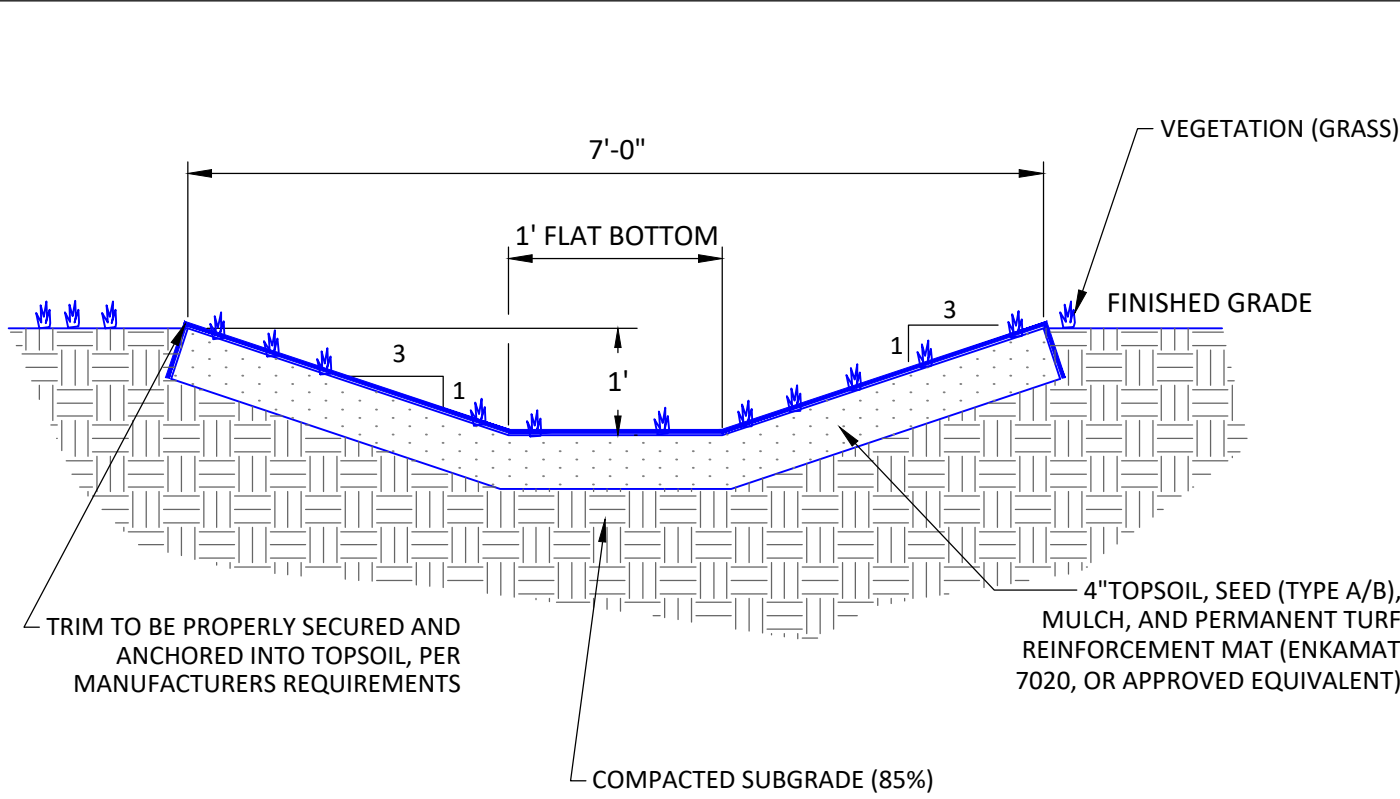
IFP

PID # 06.008.2600



NOTES:

- GRAVEL ACCESS ROAD IS TO BE BUILT AT-GRADE, ALLOWING STORMWATER RUNOFF TO SHEET FLOW OFF THE ROAD. THE INTENT OF THIS DESIGN IS TO ALLOW THE VEGETATED AREAS ADJACENT TO THE ROAD TO FILTER AND ABSORB STORMWATER RUNOFF AND DISCOURAGE THE FLOW FROM CONCENTRATING AND CAUSING EROSION.
- ROAD WIDTH(S) ARE SHOWN ON THE SITE PLAN.
- THE CONTRACTOR/SUB-CONTRACTOR SHALL REVIEW THE EXISTING TOPOGRAPHY FOR THE SITE AND DETERMINE WHICH SECTION IS APPROPRIATE. IN SOME CASES, IT MAY BE NECESSARY TO USE BOTH SECTIONS WITH A TRANSITION BETWEEN.
- SUBGRADE SHALL BE PREPARED PER GEOTECHNICAL REPORT RECOMMENDATIONS.
- THE SELECTION AND USE OF GEOTEXTILE FABRIC AND/OR GEOGRID SHALL BE AT THE SOLE DISCRETION OF THE CONTRACTOR/SUB-CONTRACTOR, BASED ON SITE CONDITIONS.
- THE FINAL DETERMINATION OF AGGREGATE THICKNESS SHALL BE AT THE SOLE DISCRETION OF THE CONTRACTOR/SUB-CONTRACTOR, BASED ON SITE CONDITIONS.
- FOR ADDITIONAL DETAIL OR SITE-SPECIFIC RECOMMENDATIONS, CONTRACTOR/SUBCONTRACTOR SHALL CONSULT THE GEOTECHNICAL REPORT.



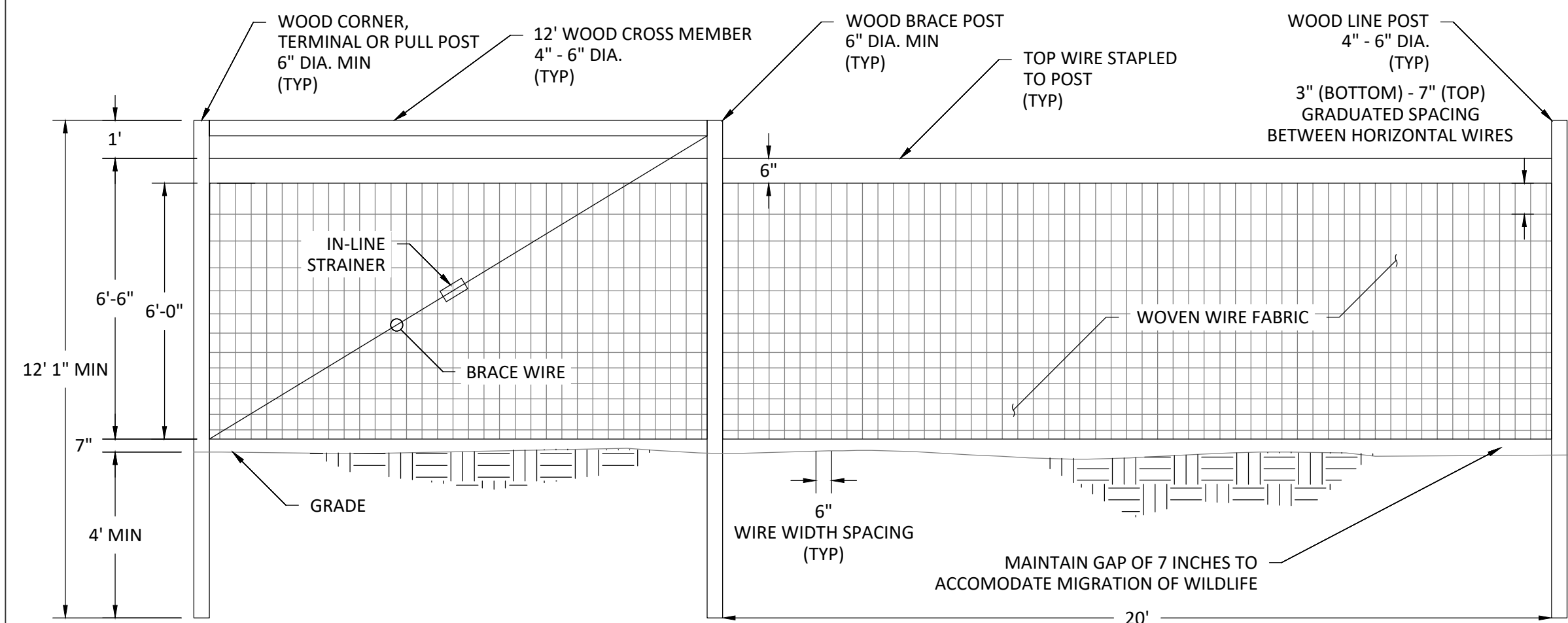
4

GRASS-LINED SWALE

N.T.S.

1 GRAVEL ACCESS ROAD

N.T.S.



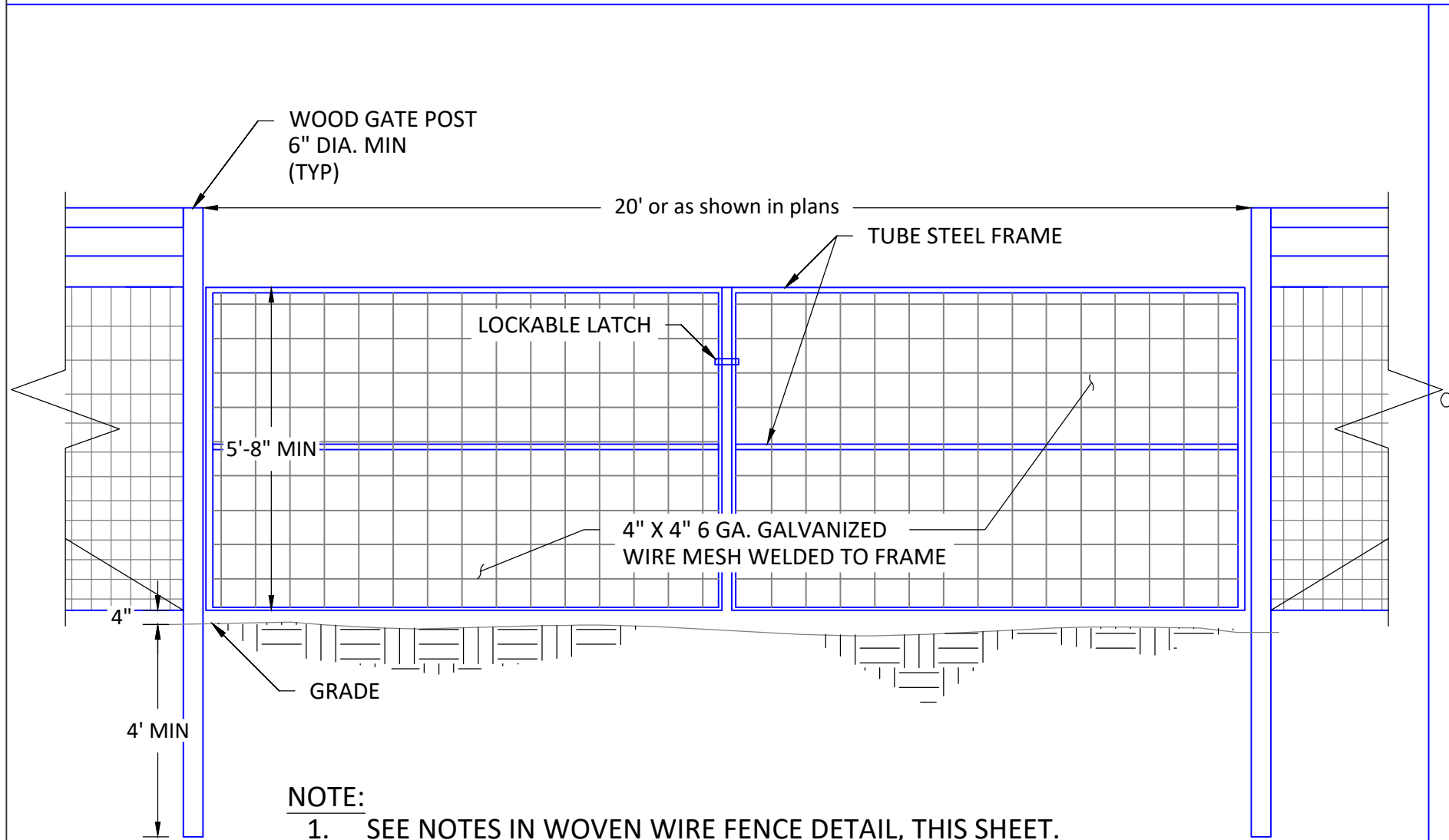
NOTES:

- SEE SUPPLIER DRAWINGS FOR ADDITIONAL DETAIL.
- WOVEN WIRE FABRIC SHALL BE GALVANIZED FIXED KNOT FENCE FABRIC WITH 3"X 6" OPENINGS AT BOTTOM.
- ALL METALLIC PARTS SHALL BE GALVANIZED.
- TOP WIRE SHALL REACH MIN 7" ABOVE GRADE.
- MAXIMUM SPACING BETWEEN END POSTS SHALL BE 1,320' WITHOUT ADDITIONAL INLINE BRACES OR PER MANUFACTURER RECOMMENDATION.
- MANUFACTURER DRAWINGS SHALL SUPERSEDE DETAIL IF CONFLICTS ARE PRESENT. ANY DEVIATIONS SHALL BE SUBMITTED TO THE OWNER FOR REVIEW.
- WOOD POSTS MAY BE SUPPLEMENTED WITH METAL AND CONCRETE POSTS OF SIMILAR OR GREATER STRENGTH BASED ON SITE FACTORS.

2

WOVEN WIRE FENCE DETAIL

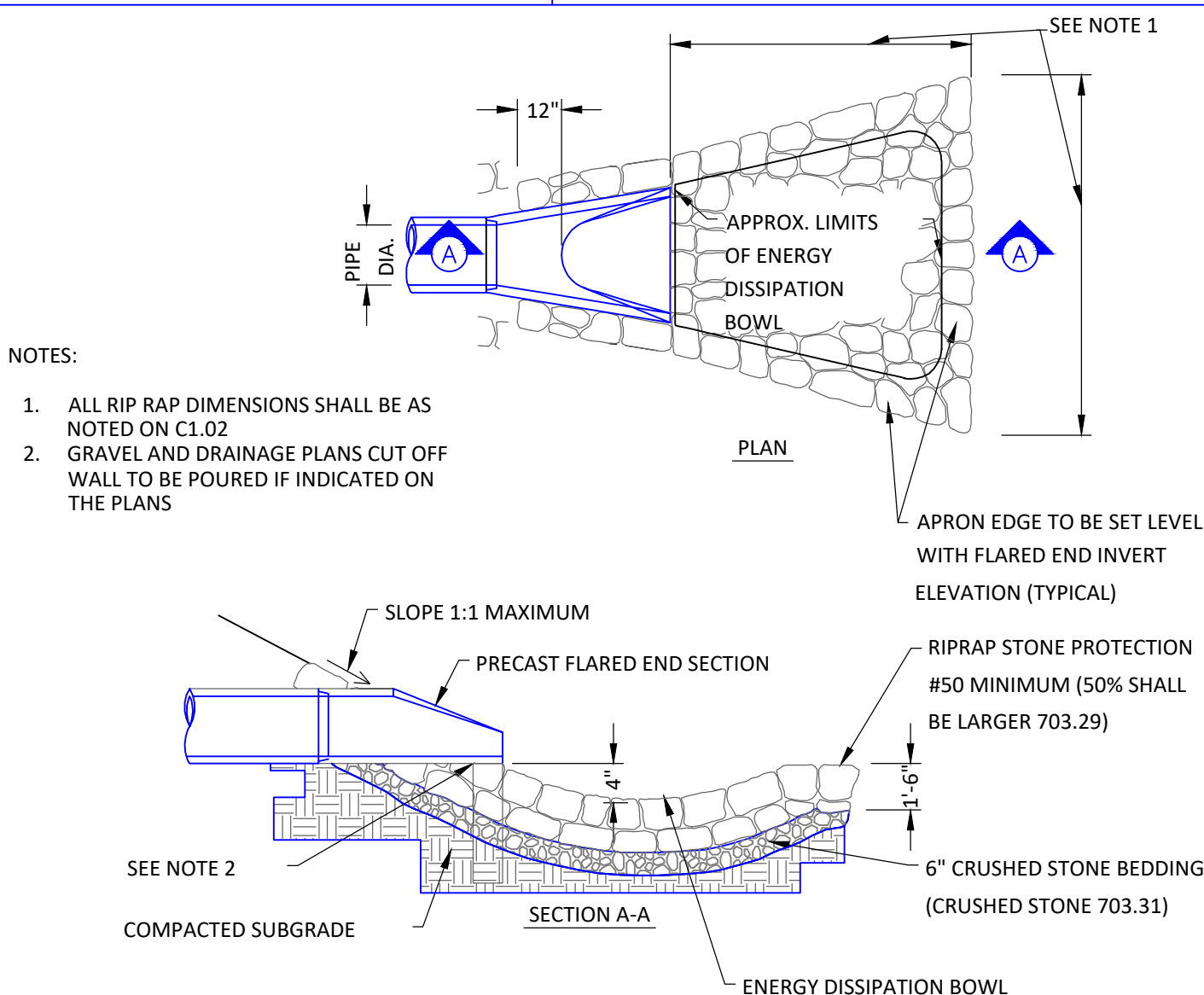
N.T.S.



3

SWING GATE

N.T.S.



NOTES:

- ALL RIP RAP DIMENSIONS SHALL BE AS NOTED ON C1.02
- GRAVEL AND DRAINAGE PLANS CUT OFF WALL TO BE POURED IF INDICATED ON THE PLANS

5

FLARED END SECTION/RIP-RAP APRON

N.T.S.

Novel
ENERGY SOLUTIONS
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St Paul, MN 55114
info@novelenergy.biz
612-345-7188 telephone

Landowner
HARLEN POEHLS

1823 US HWY 75 WOLVERTON MN 56594

Project
**NOVEL CHLOE
SOLAR LLC**

Location
**46.783236°,
-96.647641°**

Certification
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota.
Signature: *Jonathan Powelson*
Name: Jonathan Powelson
Date: 08/25/2025 License Number: 64201



Summary
Designed IG Approved JMP
Phase PERMITTING

Revisions			
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Sheet Title
**CONSTRUCTION
DETAILS**

Sheet No. Rev
C9.01 IFP

PID # 06.008.2600

GENERAL NOTES

- THE CONTRACTOR SHALL INSPECT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS RELATING TO THE NATURE AND SCOPE OF THE WORK.
- THE CONTRACTOR SHALL VERIFY PLAN LAYOUT AND BRING TO THE ATTENTION OF THE LANDSCAPE ARCHITECT DISCREPANCIES WHICH MAY COMPROMISE THE DESIGN OR INTENT OF THE LAYOUT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE CODES, REGULATIONS, AND PERMITS GOVERNING THE WORK.
- THE CONTRACTOR SHALL PROTECT EXISTING ROADS, CURBS/GUTTERS, TRAILS, TREES, LAWNS AND SITE ELEMENTS DURING CONSTRUCTION. DAMAGE TO SAME SHALL BE REPAIRED AND/OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- LOCATE AND VERIFY ALL UTILITIES, INCLUDING IRRIGATION LINES, WITH THE OWNER FOR PROPRIETARY UTILITIES AND GOPHER STATE ONE CALL 48 HOURS BEFORE DIGGING. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ANY DAMAGES TO SAME. NOTIFY THE LANDSCAPE ARCHITECT OF ANY CONFLICTS TO FACILITATE PLANT RELOCATION.
- THE LANDSCAPE CONTRACTOR SHALL COORDINATE THE PHASES OF CONSTRUCTION AND PLANTING INSTALLATION WITH OTHER CONTRACTORS WORKING ON SITE.
- THE CONTRACTOR SHALL REVIEW THE SITE FOR DEFICIENCIES IN SITE CONDITIONS WHICH MIGHT NEGATIVELY AFFECT PLANT ESTABLISHMENT, SURVIVAL OR WARRANTY. UNDESIRABLE SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING OF WORK.
- THE PLAN TAKES PRECEDENCE OVER THE LANDSCAPE LEGEND IF DISCREPANCIES EXIST. QUANTITIES SHOWN IN THE PLANTING SCHEDULE ARE FOR THE CONTRACTOR'S CONVENIENCE. CONTRACTOR TO VERIFY QUANTITIES SHOWN ON THE PLAN.
- THE SPECIFICATIONS TAKE PRECEDENCE OVER THE PLANTING NOTES AND GENERAL NOTES.
- EXISTING TREES AND SHRUBS TO REMAIN SHALL BE PROTECTED TO THE DRIP LINE FROM ALL CONSTRUCTION TRAFFIC, STORAGE OF MATERIALS ETC. WITH 4' HT. ORANGE PLASTIC SAFETY FENCING ADEQUATELY SUPPORTED BY FENCE POSTS 6' O.C. MAXIMUM SPACING.
- LONG-TERM STORAGE OF MATERIALS OR SUPPLIES ON-SITE WILL NOT BE ALLOWED.
- CONTRACTOR SHALL REQUEST IN WRITING, A FINAL ACCEPTANCE INSPECTION.

- NO PLANTS SHALL BE INSTALLED UNTIL FINAL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
- A GRANULAR PRE-EMERGENT HERBICIDE SHALL BE APPLIED TO ALL PLANT BEDS AT THE MANUFACTURERS RECOMMENDED RATE PRIOR TO PLANT INSTALLATION.
- ALL PLANTING STOCK SHALL CONFORM TO THE "AMERICAN STANDARD FOR NURSERY STOCK," ANSI-Z60, LATEST EDITION, OF THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIALS.
- ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE AND BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED IN THE LANDSCAPE LEGEND.
- PLANT MATERIALS TO BE INSTALLED PER PLANTING DETAILS.
- ALL TREES MUST BE STRAIGHT TRUNKED AND FULL HEADED AND MEET ALL REQUIREMENTS SPECIFIED.
- THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANTS WHICH ARE DEEMED UNSATISFACTORY BEFORE, DURING, OR AFTER INSTALLATION.
- NO SUBSTITUTIONS OF PLANT MATERIAL SHALL BE ACCEPTED UNLESS APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT.
- ALL PLANT MATERIAL QUANTITIES, SHAPES OF BEDS AND LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANTING BEDS AT SPACING SHOWN AND ADJUSTED TO CONFORM TO THE EXACT CONDITIONS OF THE SITE. THE LANDSCAPE ARCHITECT SHALL APPROVE THE STAKING LOCATION OF ALL PLANT MATERIALS PRIOR TO INSTALLATION.
- ALL PLANTING AREAS MUST BE COMPLETELY MULCHED AS SPECIFIED.
- MULCH: SHREDDED HARDWOOD MULCH, CLEAN AND FREE OF NOXIOUS WEEDS OR OTHER DELETERIOUS MATERIAL, IN ALL MASS PLANTING BEDS AND FOR TREES, UNLESS INDICATED AS ROCK MULCH ON DRAWINGS. SUBMIT SAMPLE TO LANDSCAPE ARCHITECT PRIOR TO DELIVERY ON-SITE FOR APPROVAL. DELIVER MULCH ON DAY OF INSTALLATION. USE 3" FOR SHRUB BEDS, TREE RINGS, AND 3" FOR PERENNIAL/GROUND COVER BEDS, UNLESS OTHERWISE DIRECTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MULCHES AND PLANTING SOIL QUANTITIES TO COMPLETE THE WORK SHOWN ON THE PLAN.
- USE ANTI-DESICCANT (WILTPRUF OR APPROVED EQUAL) ON DECIDUOUS PLANTS MOVED IN LEAF AND FOR EVERGREENS MOVED ANYTIME. APPLY AS PER MANUFACTURER'S INSTRUCTION. ALL EVERGREENS SHALL BE SPRAYED IN THE LATE FALL FOR WINTER PROTECTION DURING WARRANTY PERIOD.
- WRAP ALL SMOOTH-BARKED DECIDUOUS TREES PLANTED IN THE FALL PRIOR TO DECEMBER 1 AND REMOVE WRAPPING AFTER MAY 1. TREE WRAPPING MATERIAL SHALL BE WHITE TWO-WALLED PLASTIC SHEETING APPLIED FROM TRUNK FLARE TO THE FIRST BRANCH.
- ALL DECIDUOUS, PINE, AND LARCH PLANTINGS SHALL RECEIVE RODENT PROTECTION PER MNDOT 2571.31.2
- PLANTING SOIL FOR TREES, SHRUBS AND GROUND COVERS: FERTILE FRIABLE LOAM CONTAINING A LIBERAL AMOUNT (4% MIN.) OF HUMUS AND CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH. IT SHALL COMPLY WITH MNDOT SPECIFICATION 3877 TYPE B SELECT TOPSOIL. MIXTURE SHALL BE FREE FROM HARDPACK SUBSOIL, STONES, CHEMICALS, NOXIOUS WEEDS, ETC. SOIL MIXTURE SHALL HAVE A PH BETWEEN 6.1 AND 7.5 AND 10-0-10 FERTILIZER AT THE RATE OF 3 POUNDS PER CUBIC YARD. IN PLANTING BEDS INCORPORATE THIS MIXTURE THROUGHOUT THE ENTIRE BED IN A 6" LAYER AND ROTO-TILLING IT INTO THE TOP 12" OF SOIL AT A 1:1 RATIO.ANY PLANT STOCK NOT PLANTED ON DAY OF DELIVERY SHALL BE HEELED IN AND WATERED UNTIL INSTALLATION. PLANTS NOT MAINTAINED IN THIS MANNER WILL BE REJECTED.
- CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THAT EACH EXCAVATED TREE AND SHRUB PIT WILL PERCOLATE PRIOR TO INSTALLING PLANTING MEDIUM AND PLANTS. THE CONTRACTOR SHALL FILL THE BOTTOM OF SELECTED HOLES WITH SIX INCHES OF WATER AND CONFIRM THAT THIS WATER WILL PERCOLATE WITHIN A 24-HOUR PERIOD. IF THE SOIL AT A GIVEN AREA DOES NOT DRAIN PROPERLY, A PVC DRAIN OR GRAVEL SUMP SHALL BE INSTALLED OR THE PLANTING SHALL BE RELOCATED IF DIRECTED BY THE LANDSCAPE ARCHITECT.
- ALL PLANTS SHALL BE GUARANTEED FOR TWO COMPLETE GROWING SEASONS (APRIL 1 - NOVEMBER 1), UNLESS OTHERWISE SPECIFIED. THE GUARANTEE SHALL COVER THE FULL COST OF REPLACEMENT INCLUDING LABOR AND PLANTS.
- CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT AT LEAST 3 DAYS PRIOR TO PLANNED DELIVERY. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT AT LEAST 24 HOURS IN ADVANCE OF BEGINNING PLANT INSTALLATION.
- SEASONS/TIME OF PLANTING AND SEEDING: NOTE: THE CONTRACTOR MAY ELECT TO PLANT IN OFF-SEASONS ENTIRELY AT HIS/HER RISK.

20.1. DECIDUOUS /B&B:

4/1 - 6/1;

9/21 - 11/1

20.2. EVERGREEN B&B:

4/1 - 5/1;

9/21 - 11/1

20.3. NATIVE MIX SEEDING:

4/15 - 7/20;

9/20-10/20
- MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER EACH PORTION OF THE WORK IS IN PLACE. PLANT MATERIAL SHALL BE PROTECTED AND MAINTAINED UNTIL THE INSTALLATION OF THE PLANTS IS COMPLETE, INSPECTION HAS BEEN MADE, AND PLANTINGS ARE ACCEPTED EXCLUSIVE OF THE GUARANTEE. MAINTENANCE SHALL INCLUDE WATERING, CULTIVATING, MULCHING, REMOVAL OF DEAD MATERIALS, RE-SETTING PLANTS TO PROPER GRADE AND KEEPING PLANTS IN A PLUMB POSITION. AFTER ACCEPTANCE, THE OWNER SHALL ASSUME MAINTENANCE RESPONSIBILITIES. HOWEVER, THE CONTRACTOR SHALL CONTINUE TO BE RESPONSIBLE FOR KEEPING THE TREES PLUMB THROUGHOUT THE GUARANTEE PERIOD.

PRAIRIE PLANTING & SOLAR NOTES

- SPECIFICATIONS FOR THE ESTABLISHMENT OF NATIVE VEGETATION AS PART OF HABITAT FRIENDLY SOLAR PROJECTS
4-24-19 DEVELOPED BY THE MINNESOTA BOARD OF WATER AND SOIL RESOURCES
- NOTE: THESE SPECIFICATIONS ARE GENERIC IN NATURE AND SHOULD BE ADAPTED FOR SPECIFIC SITE CONDITIONS. IF SITE CONDITIONS REQUIRE CHANGES TO SEEDING OR METHODS, REVIEW FOR APPROVAL WITH LOCAL JURISDICTIONAL AGENCY.
- CONTRACTOR QUALIFICATIONS**
- SEEDING CONTRACTORS MUST HAVE AT LEAST THREE YEARS OF EXPERIENCE INSTALLING NATIVE SEED AND SIMILAR TYPES OF PROJECTS.
- SEED SPECIFICATIONS**
- SUBSTITUTION OF SPECIES IN THE SPECIFIED SEED MIXES/SPECIES LISTS MUST BE APPROVED BY THE LOCAL GOVERNMENT ORGANIZATION THAT IS REVIEWING THE HABIT FRIENDLY SOLAR STANDARDS.
 - ALL SEED THAT IS SUPPLIED FOR PROJECTS MUST BE LABELED ACCORDING TO THE REQUIREMENTS OF THE MINNESOTA SEED LAW, SECTION 21.82, INCLUDING LIMITS ON NOXIOUS WEED SEED.
 - THE ORIGIN OF SEED IS REQUIRED TO BE LISTED ON THE SEED TAG FOR ALL SPECIES IN A MIX TO PROVIDE VERIFICATION OF ORIGINAL (GENERATION 0) SEED SOURCE. THE SMALLEST KNOWN GEOGRAPHIC AREA (TOWNSHIP, COUNTY, ECOTYPE REGION, ETC.) SHALL BE LISTED.

3.1. INFORMATION PERTAINING TO PURE SEED, GERMINATION, AND HARD (DORMANT) SEED OF INDIVIDUAL COMPONENTS IN A MIX IS REQUIRED ON SEED TAGS.

3.2. WHEN SUBMITTING SEED BIDS, SEED VENDORS MUST LIST ANY AMARANTH SEEDS THAT WERE FOUND IN OFFICIAL SEED TESTS. IF AMARANTH SPECIES ARE FOUND IN THE TEST RESULTS, THE MINNESOTA DEPARTMENT OF AGRICULTURE (MDA) REQUIRES THAT THE VENDOR PAY FOR GENETIC TESTING TO DETERMINE IF THE AMARANTH SEEDS PRESENT ARE PALMER AMARANTH.
 - SEED MUST BE CLEANED TO AN EXTENT SUFFICIENT TO ALLOW ITS PASSAGE THROUGH APPROPRIATE SEEDING EQUIPMENT.
 - SEED MUST ORIGINATE FROM WITHIN 175 MILES OF THE PROJECT SITE. FOLLOW THE MINNESOTA BOARD OF WATER AND SOIL RESOURCED (BWSR) SEED ZONE MAP AND SOURCE SEQUENCE ON PAGE 8 OF BWSR'S NATIVE VEGETATION ESTABLISHMENT AND ENHANCEMENT GUIDELINES FOR OBTAINING SEED.
 - ALL SEED DELIVERED TO SITES MUST HAVE A COMPLETE LABEL AND INCLUDE INFORMATION ABOUT INDIVIDUAL COMPONENT SEED LOTS. INSTALLERS MUST ALLOW MDA STAFF TO TAKE SEED SAMPLES WHEN THEY ARRIVE FOR A RANDOM INSPECTION.
- SITE PREPARATION SPECIFICATIONS**
- SEEDING CAN ONLY BE CONDUCTED AFTER ALL GRADING, CONSTRUCTION ACTIVITIES AND SITE PREPARATION ARE COMPLETED.
 - TREAT ANY WEEDS LOCATED WITHIN THE AREA TO BE SEEDED WITH GLYPHOSATE HERBICIDE. CONDUCT A SECOND HERBICIDE TREATMENT IF WEEDS CONTINUE GROWING AFTER TEN DAYS. AN HERBICIDE THAT KILLS LEGUMES MAY ALSO BE USED IF NEEDED BUT SHOULD ONLY BE APPLIED WHERE NEEDED AS THESE CHEMICALS CAN OFTEN INHIBIT GERMINATION. WAIT AT LEAST 14 DAYS AFTER HERBICIDE APPLICATION TO CONDUCT TILLING.
 - PRIOR TO SEEDING, PREPARE THE SOIL SURFACE TO PROVIDE A SMOOTH, MOIST, AND EVENLY TEXTURED FOUNDATION. USE CULTIVATING EQUIPMENT SUCH AS DISKS, HARROWS, FIELD DIGGERS, OR TILERS CAPABLE OF LOOSENING THE SOIL TO A DEPTH OF AT LEAST 4 IN. ON ALL AREAS. TILL THE SOIL SURFACE TO REMOVE TRACK IMPRINTS FROM WHEELED OR TRACKED EQUIPMENT. OPERATE CULTIVATING EQUIPMENT ON SLOPES AT RIGHT ANGLES TO THE DIRECTION OF SURFACE DRAINAGE. SOIL CLOUDS, LUMPS, AND TILLAGE RIDGES 3 IN. HIGH OR LESS MAY REMAIN IN PLACE FOR SEEDING OPERATIONS. MULTIPLE PASSES OF THE EQUIPMENT MAY BE NEEDED TO MEET THESE REQUIREMENTS.
 - SEEDING SHOULD BE CONDUCTED AS SOON AFTER TILLING AS POSSIBLE. A SECOND TILLING MAY BE NEEDED IF THERE IS MORE THAN TWO WEEKS BETWEEN TILLING AND SEEDING AND WEEDS ARE STARTING TO GROW.
- SEEDING SPECIFICATIONS**
- SEEDING DATES INCLUDE MAY 15TH - JUNE 30TH IN THE SPRING, OR OCTOBER 15TH - FROZEN GROUND IN THE FALL. PROJECT PLANNING AND DESIGN STAFF MUST PROVIDE WRITTEN APPROVAL TO CONDUCT SEEDING OUTSIDE OF THE RECOMMEND TIME PERIODS.
 - SEEDING CONTRACTOR IS RESPONSIBLE FOR DISTRIBUTING SEED ACROSS THE ENTIRE PROJECT AREA AS SPECIFIED IN THE PROJECT PLAN AND SPECIFICATIONS.
 - WHERE ACCESSIBLE WITHIN THE PROJECT SITE A NATIVE SEED DRILL WITH BOXES FOR DIFFERENT SIZE SEED (SUCH AS A TRUAX OR TRILLION TYPE SEEDER) WILL BE USED FOR SEED INSTALLATION. WHERE A SEEDER CANNOT ACCESS THE SITE BROADCAST SEEDING THAT IS CONDUCTED IN A WAY THAT ENSURES AN EVEN DISTRIBUTION OF SEED MUST BE CONDUCTED FOLLOWED BY RAKING, ROLLING OR OTHER METHODS TO ENSURE THAT THERE IS SUFFICIENT SEED TO SOIL CONTACT.
 - IF HYDROSEEDING WILL BE CONDUCTED WHERE BROADCAST SEEDING IS REQUIRED CONDUCT SEEDING BY APPLYING SEED WITH ONLY WATER FIRST BEFORE PLACING HYDRAULIC EROSION CONTROL PRODUCTS (HYDRO-MULCHING). THE SOLAR ARRAYS MUST BE PROTECTED USING METHODS INCLUDING APPROPRIATE SHIELDS, COVERS AND AVOIDANCE MEASURES. ACCIDENTAL OVERSPRAY MUST BE CLEANED UP AT THE TIME OF INSTALLATION.
 - APPLY CERTIFIED WEED FREE STRAW MULCH (TYPE 3) OVER THE SEEDED AREAS AND DISC ANCHOR WHERE POSSIBLE EXCEPT WHERE EROSION CONTROL BLANKET OR OTHER EROSION CONTROL DEVICES ARE USED AS DEFINED IN THE EROSION CONTROL SPECIFICATIONS.
 - USE TEMPORARY EROSION CONTROL DEVICES (SEDIMENT LOGS, SILT FENCE) AS NEEDED TO PREVENT EROSION PRIOR TO AND DURING SEED ESTABLISHMENT.
 - IF A COVER CROP IS NOT INCLUDED WITH SPECIFIED SEED MIXES FOR THE PROJECT INCLUDE A COVER CROP OF OATS AT A RATE OF 25LB. PER ACRE IF SEEDING BETWEEN MAY 15TH AND AUGUST 1ST AND WINTER WHEAT AT 25LB PER ACRE IF SEEDING BETWEEN AUGUST 1 AND OCTOBER 15TH. NO COVER CROPS SHOULD BE INCLUDED IF SEEDING BETWEEN OCTOBER 15TH AND FREEZING OF THE SOIL AS COVER CROPS DO NOT MAINTAIN GERMINATION WELL OVER WINTER.
- MANAGEMENT NOTES**
- MONITORING OF THE SITE'S VEGETATION IS REQUIRED THREE TIMES A YEAR DURING THE FIRST THREE YEARS OF THE PROJECT AS VEGETATION ESTABLISHES AND THEN TWICE A YEAR (JUNE AND SEPTEMBER) EACH YEAR IN FOLLOWING YEARS TO DETERMINE MAINTENANCE NEEDS.
 - YEAR 1 MAINTENANCE - DURING THE FIRST GROWING SEASON VEGETATION OVER THE ENTIRE SEEDED AREAS MUST BE MOWED APPROXIMATELY EVERY 30 DAYS AS VEGETATION REACHES ONE FOOT TALL UNTIL SEPTEMBER 30TH TO A HEIGHT OF 5-8 INCHES WITH A FLAIL TYPE MOWER OR STALK CHOPPER THAT WILL HELP PREVENT THE SMOTHERING OF NATIVE PLANT SEEDLINGS. HAND HELD TRIMMING EQUIPMENT MAY BE NEEDED FOR AREAS UNDER SOLAR ARRAYS. HERBICIDE SHOULD BE USED MINIMALLY DURING THE FIRST YEAR AS NATIVE PLANT SEEDLINGS WILL BE SUSCEPTIBLE TO OVERSPRAY.
 - YEAR 2 MAINTENANCE - DURING THE SECOND GROWING SEASON VEGETATION OVER THE ENTIRE SEEDED AREAS MUST BE MOWED APPROXIMATELY EVERY 30 DAYS AS VEGETATION REACHES ONE FOOT TALL UNTIL SEPTEMBER 30TH TO A HEIGHT OF 5-8 INCHES WITH A FLAIL TYPE MOWER OR STALK CHOPPER THAT WILL HELP PREVENT THE SMOTHERING OF NATIVE PLANT SEEDLINGS. HAND HELD TRIMMING EQUIPMENT MAY BE NEEDED FOR AREAS UNDER SOLAR ARRAYS. SPOT TREAT OR HAND PULL ANY INVASIVE SPECIES OR NOXIOUS WEEDS THAT ARE STARTING TO ESTABLISH.
 - YEAR 3+ MAINTENANCE - SPOT TREAT OR HAND PULL ANY INVASIVE SPECIES OR NOXIOUS WEEDS THAT ARE STARTING TO ESTABLISH. IN SOME CASES IT MAY BE BENEFICIAL TO SPOT MOW WEEDS TO PREVENT THEM FROM DEVELOPING SEED AND THEN TREATING THEM WITH HERBICIDE A COUPLE WEEKS LATER AFTER THEY HAVE A CHANCE TO RE-GROW. AFTER TWO GROWING SEASONS FLAIL MOW (OR BY USING HAND HELD EQUIPMENT AS NEEDED) NATIVE VEGETATION IN MAY EACH SEASON.
 - AVOID THE USE OF HERBICIDE DURING TIMES WHEN TARGET SPECIES AND ADJACENT SPECIES ARE IN BLOOM.
 - ANY AREAS OVER 100 SQUARE FEET WITH SPARSE ESTABLISHMENT (LESS THAN ONE NATIVE PLANT EVERY 1.5 FEET ON AVERAGE) AFTER THE FIRST FULL GROWING SEASON WILL REQUIRE RE-SEEDING. WITH THE ORIGINAL SEED MIXES SPECIFIED FOR THE PROJECT.
 - THE SEEDING WILL BE SUCCESSFULLY ESTABLISHED WHEN THE AREA HAS A 90% AREAL COVERAGE OF NATIVE PLANT SPECIES.
 - IF FLOWER DIVERSITY DECREASES OVER TIME INTER-SEED FLOWERS INTO THE PLANTING IN LATE FALL WITH SPECIES SUCH AS BERGAMOT, PRAIRIE CLOVERS, YELLOW CONEFLOWER, ASTERS, COREOPSIS AND WILD MINTS. PRESCRIBED BURNING FOLLOWING A BURN PLAN CAN ALSO BE USED OUTSIDE OF THE ARRAY AREAS AS A WAY TO MAINTAIN FLOWER DIVERSITY.

SEEDING

TYPE	LOCATION	NAME/SPECIES	SEED MIX RATIOS	SEEDING RATE
A/B	BETWEEN AND UNDER SOLAR PANELS	MID DIVERSITY SOLAR ARRAY (NORTHEAST OR SOUTH AND WEST)	bwsr.state.mn.us/se ed-mixes	SEE TABLE ON WEBSITE
C	OUTSIDE OF ARRAY	ERNMX-179: BUTTERFLY & HUMMINGBIRD GARDEN MIX	ERNSTSEED.COM	10#/ACRE 7-10 LB PER ACRE WITH 30 LBS/ACRE OF A COVER CROP
NORTHEAST SEED MIX	https://bwsr.state.mn.us/sites/default/files/2023-04/Mid%20Diversity%20Solar%20Array%20Mestic%20So il%20Northeast%20Seed%20Mix%20Guidance.pdf			
SOUTH AND WEST SEED MIX	https://bwsr.state.mn.us/sites/default/files/2023-04/Mid%20Diversity%20Solar%20Array%20Mestic%20So il%20South%20and%20West%20Seed%20Mix%20Guidance.pdf			
1. BETWEEN DECEMBER 1ST AND APRIL 1ST, EACH TYPE OF SEED SHALL HAVE AN ADDITIONAL 1#/1,000 SF OF WINTER RYEGRASS OR GRAIN RYE GRASS SEED.				
2. IT SHALL BE THE SUB-CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE PROJECT LIMIT OF WORK IS STABILIZED (IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS/REQUIREMENTS/PERMIT APPROVALS) DURING THE LENGTH OF THE PROJECT.				
3. ALL DISTURBED AREAS SHALL BE RESTORED WITH 4" MINIMUM TOPSOIL & SEED PER SEEDING SPECIFICATIONS LISTED IN THIS TABLE.				

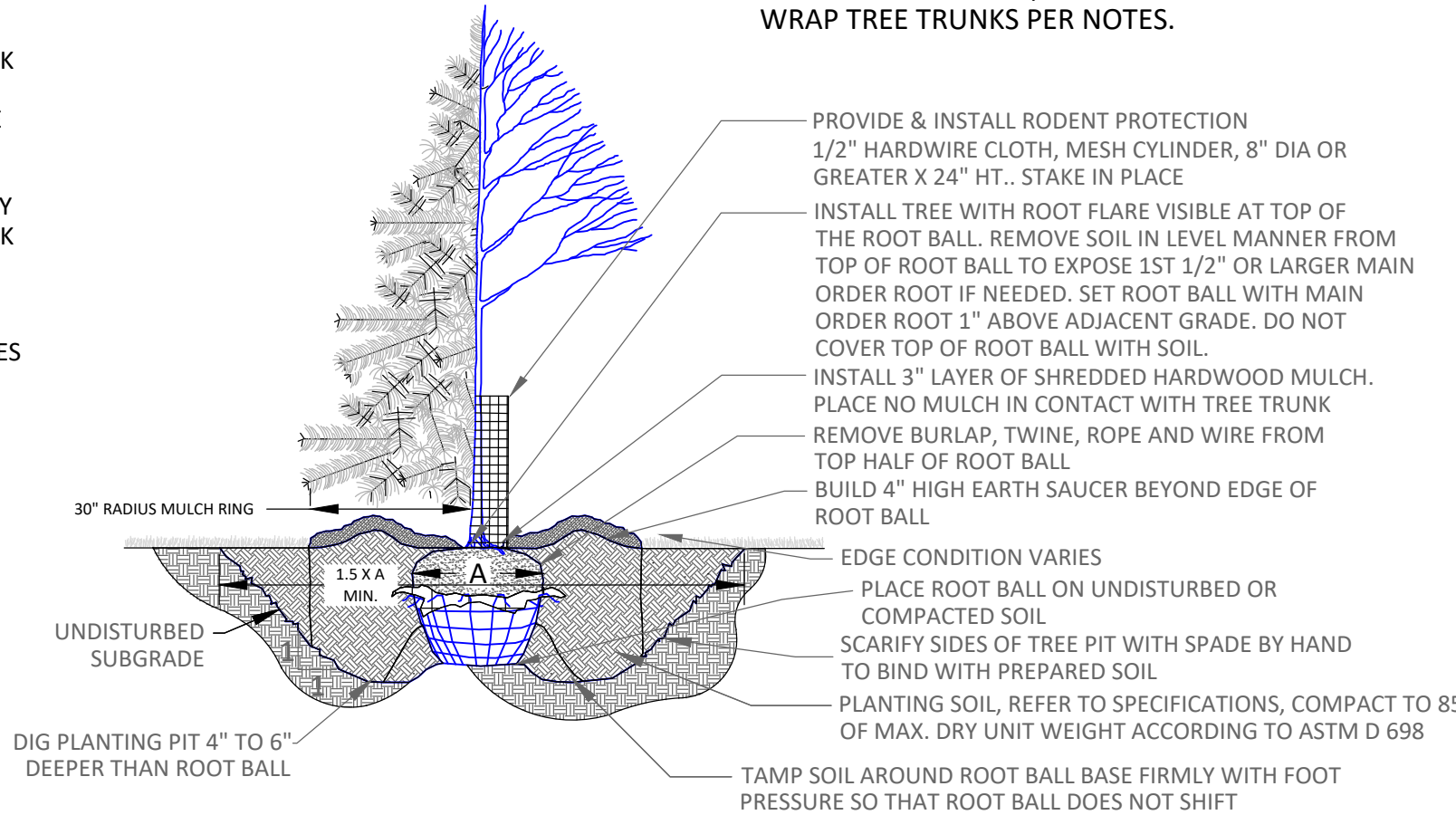
MULCH

CONDITION	TIMING	MULCH TYPE ²	APPLICATION RATES ¹
TEMPORARY			
INACTIVE AREAS	IF NO ACTIVITY IN EXPOSED AREAS FOR 7 DAYS, OR PRIOR TO A STORM EVENT	STRAW MULCH OR WOOD FIBER MULCH OR EROSION CONTROL MIX	2 TONS/ACRE 1 TON/ACRE 2" THICK OVER AREA
ALL DISTURBED AREAS OF THE CONSTRUCTION WORKSPACE	APPLY MULCH TO ALL EXPOSED AREAS IF NO ACTIVITY OCCURS WITHIN 30 DAYS. APPLY MULCH AND TEMPORARY SEEDING SOONER WHEN IT CAN BE ANTICIPATED THAT ACTIVITY IS NOT GOING TO OCCUR WITHIN 30 DAYS	STRAW MULCH OR WOOD FIBER MULCH	2 TONS/ACRE 1 TON/ACRE ³
ALL WORK AREAS EXPOSED ARE TO BE MULCHED DAILY EACH TIME SOIL IS DISTURBED ⁵	NOVEMBER 1 - APRIL 15	STRAW MULCH OR WOOD FIBER MULCH	4 TONS/ACRE 2 TONS/ACRE
PERMANENT			
ON ALL EXPOSED AREAS AFTER SEEDING TO STABILIZE THE SOIL SURFACE	PERMANENT GRASS AND/OR LEGUME SEEDING COVERED BY STRAW MULCH ON ALL AREAS THAT HAVE BEEN RESTORED TO FINAL GRADE. THIS DOES NOT APPLY TO AREAS STABILIZED BY OTHER MEANS SUCH AS JUTE MATTING OR PERMANENT EROSION CONTROL MIX	CRIMPED STRAW MULCH OR PAPER MULCH OR WOOD FIBER MULCH	2 TONS/ACRE 1500 LC./ACRE ⁴ 1 TON/ACRE
NOTES: 1. IN ALL CASES, SUFFICIENT MULCH SHALL BE APPLIED SUCH THAT NO SOIL IS VISIBLE THROUGH THE MULCH. 2. DOUBLE RATE OF WOOD FIBER MULCH WHEN USED IN OR ADJACENT TO CRITICAL AREAS. INCREASE MULCH RATE BY HALF UNDER SOLAR ARRAY DRIP EDGE. 3. STRAW, HAY, OR HYDROMULCH (WOOD FIBER OR PAPER MULCH AS APPROPRIATE) SHALL PROVIDE MINIMUM 90 PERCENT GROUND COVERAGE. 4. PAPER MULCH IS ACCEPTABLE FOR USE DURING THE GROWING SEASON ON SLOPES >30 PERCENT AND IN AREAS WHERE VEGETATION HAS NOT ESTABLISHED WELL. ADDITIONAL HAY MULCH WILL BE ADDED AS A WINTERIZING MEASURE. 5. MULCH MAY NOT BE SPREAD ON TOP OF SNOW.			

TREE GENERAL SPECIFICATIONS

- ALL TREES SHALL HAVE SYMMETRICAL OR BALANCED BRANCHING ON ALL SIDES OF THE TREE.
- TREES SHALL NOT BE TIPPED PRUNED.
- TREES SHALL BE FREE OF PHYSICAL DAMAGE FROM SHIPPING AND HANDLING. DAMAGED TREES SHALL BE REJECTED.
- SUMMER DUG TREES SHALL HAVE ROOTBALL SIZE INCREASED BY 20%

NOTE:
CONTRACTOR SHALL MAINTAIN TREES IN A PLUMB POSITION THROUGHOUT THE WARRANTY PERIOD. IF STAKING IS REQUIRED BY SITE CONDITIONS, CONTRACTOR TO USE 2 OR 3 STAKE METHOD WITH 1" WEBBING AROUND TRUNK OF TREE (NO WIRE OR CABLING TO BE USED) WRAP TREE TRUNKS PER NOTES.



TREE PLANTING DETAIL



2303 Wycliff St, Suite 300
St Paul, MN 55114

info@novelenergy.biz
612-345-7188 telephone

Landowner
HARLEN POEHL

1823 US HWY 75 WOLVERTON MN 56594

Project

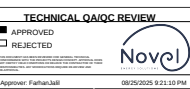
NOVEL CHLOE
SOLAR LLC

Location

46.783236°,
-96.647641°

Certification

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota.
Signature: *Jonathan Powlison*
Name: Jonathan Powlison
Date: 08/25/2025 License Number: 64201



Summary

Designed IG Approved JMP
Phase PERMITTING

Revisions

No	Date	By	Description
1	1/7/2025	IG	ADDED POND FENCE HEIGHT ADJUSTED
2	2/7/2025	IG	CULVERTS ADDITION
3	8/29/2025	IG	IFP90 ISSUE SEE REV NOTES

Sheet Title
LANDSCAPING
DETAILS

Sheet No. Rev
C9.02 IFP

PID # 06.008.2600