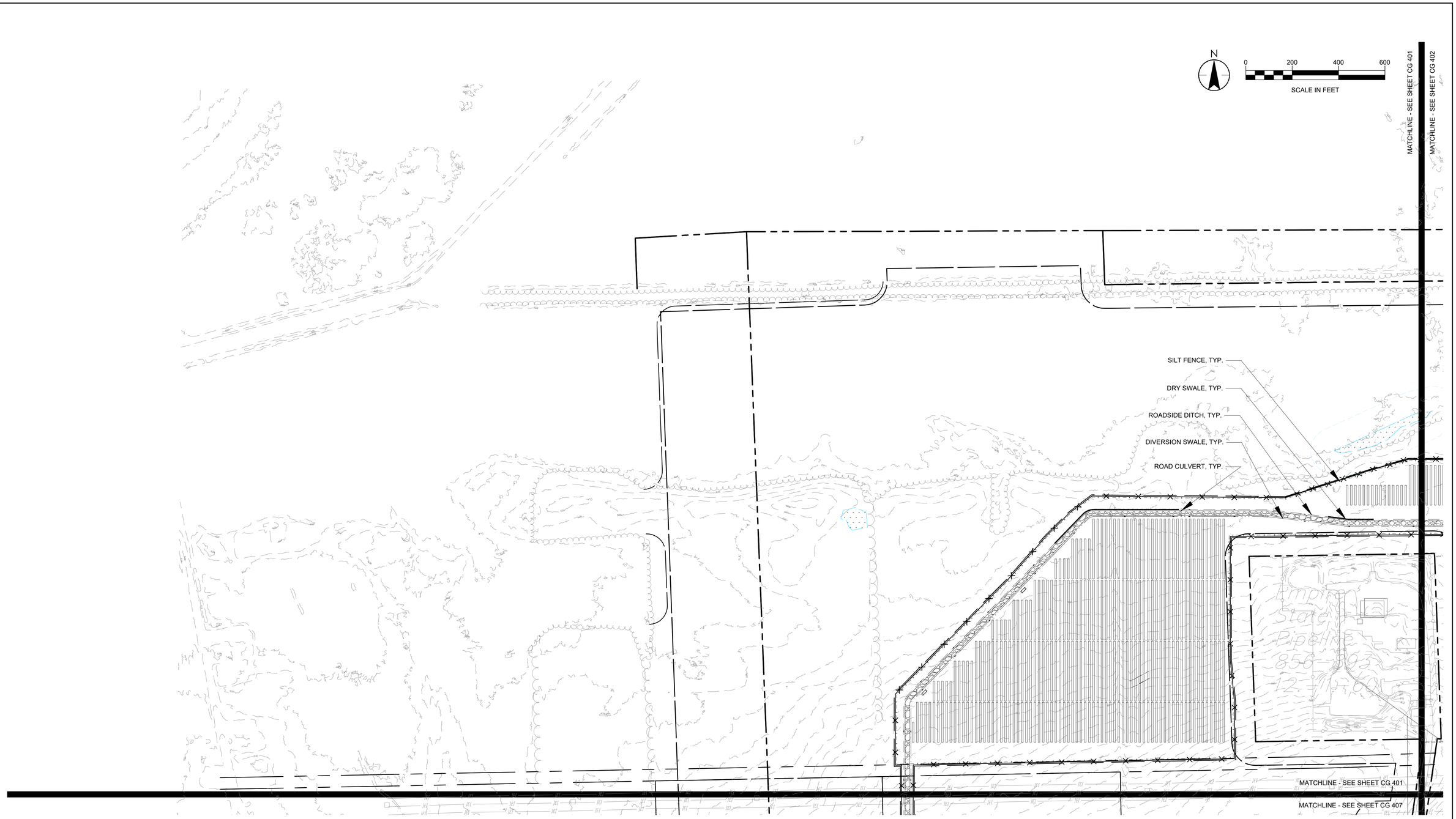
Appendix L Erosion Control Plans



Revision	By	Appd.	YY.MM.DD

Issued	By	Appd.	YY.MM.DD

LEGEND

- PROPERTY LINE
- SETBACK LINE
- EASEMENT
- WETLAND LIMITS
- EXISTING TREE LINE
- PROPOSED TREE LINE
- GRAVEL ACCESS ROAD
- LIMIT OF DISTURBANCE
- SILT FENCE
- FENCE WITH GATE

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Client/Project
HECATE ENERGY CIDER SOLAR LLC
500MW AC CIDER SOLAR FARM

EAST OAKFIELD, NY & ELBA, NY

File Name: CG401.dwg

TJC	TMP	MDF	20.12.04
Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title
DETAILED GRADING AND EROSION CONTROL PLAN

Project No.	Scale	
190502038	1"=200'	
Drawing No.	**Sheet**	**Revision**
CG 401	01 of X	0

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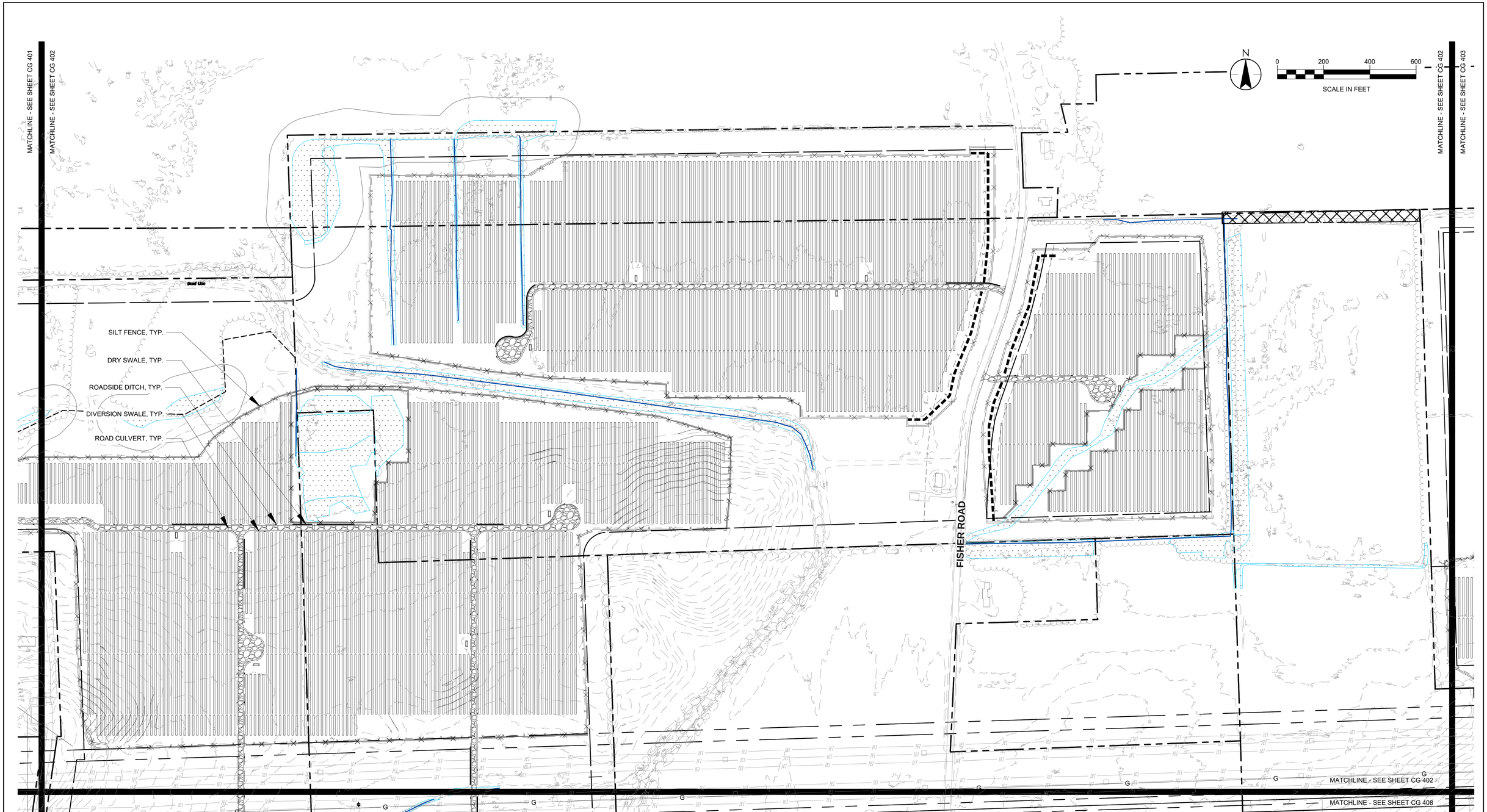

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EAST OAKFIELD, NY & ELBA, NY

File Name: CG402.dwg	TJC	TMP	MDF	20.12.04
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title

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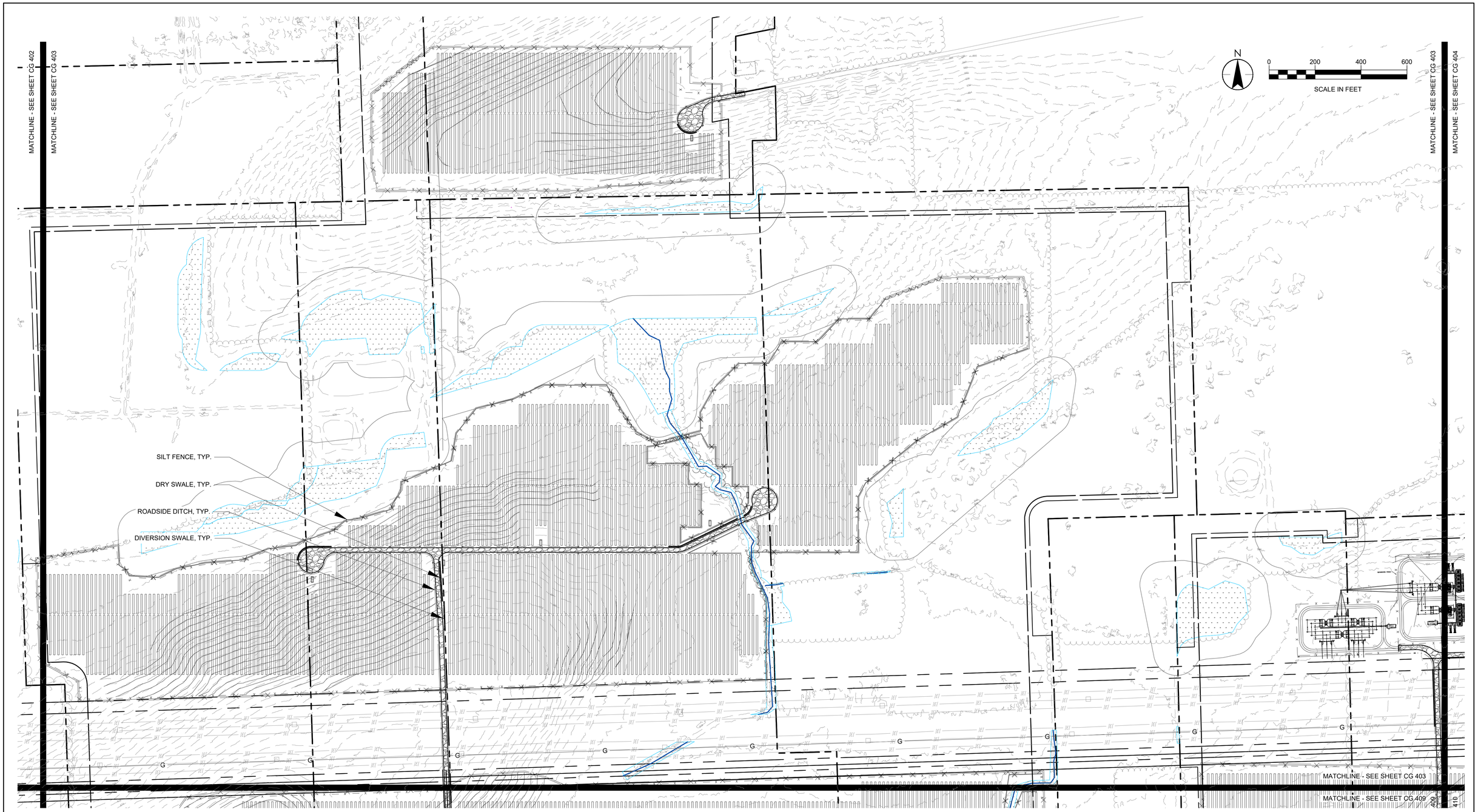

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EAST OAKFIELD, NY & ELBA, NY

File Name: CG403.dwg	TJC	TMP	MDF	20.12.04
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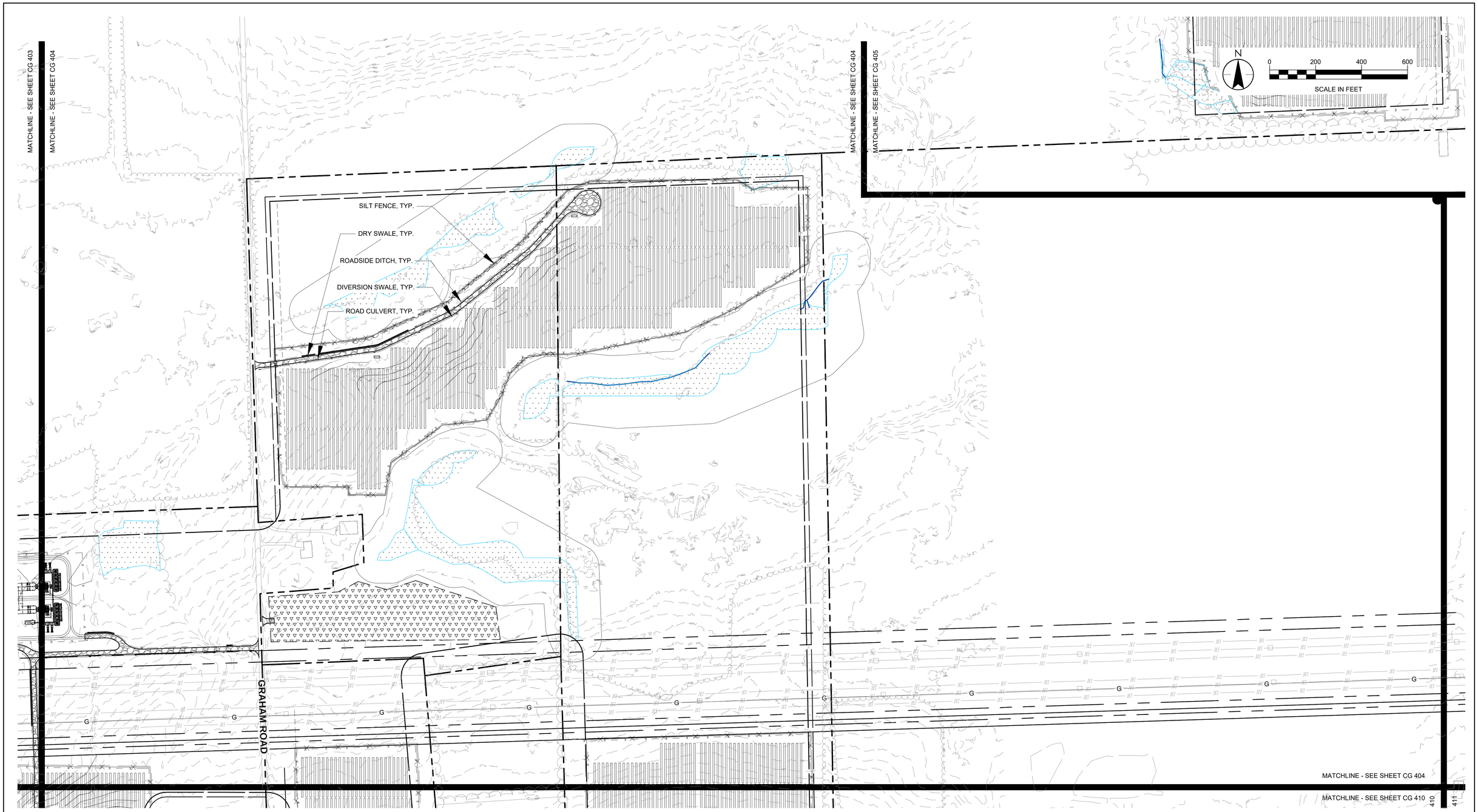

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EAST OAKFIELD, NY & ELBA, NY

File Name: CG404.dwg	TJC	TMP	MDF	20.12.04
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

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Drawing No.	**Sheet**	**Revision**
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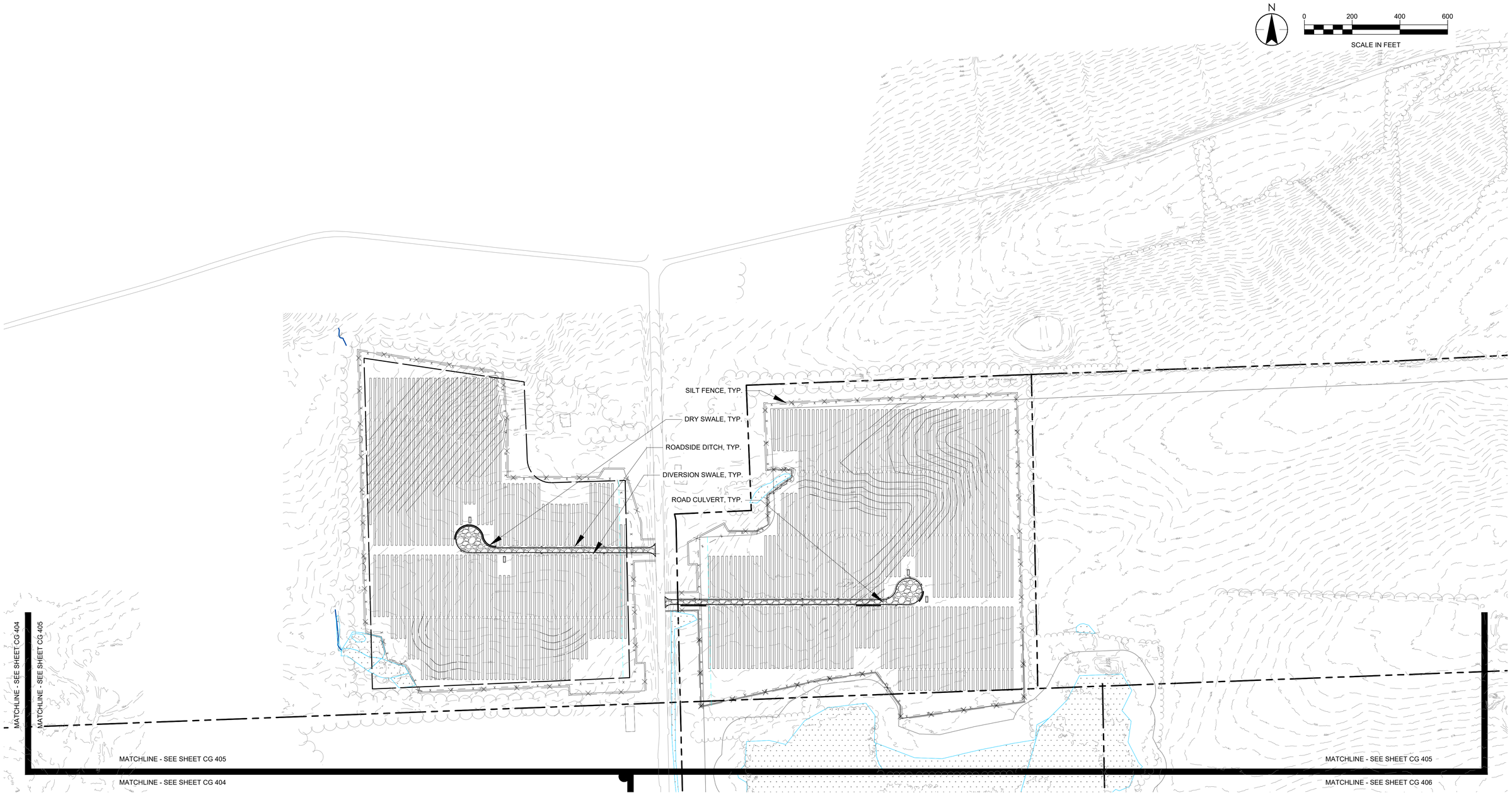

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EAST OAKFIELD, NY & ELBA, NY

File Name: CG405.dwg

TJC	TMP	MDF	20.12.04
Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title

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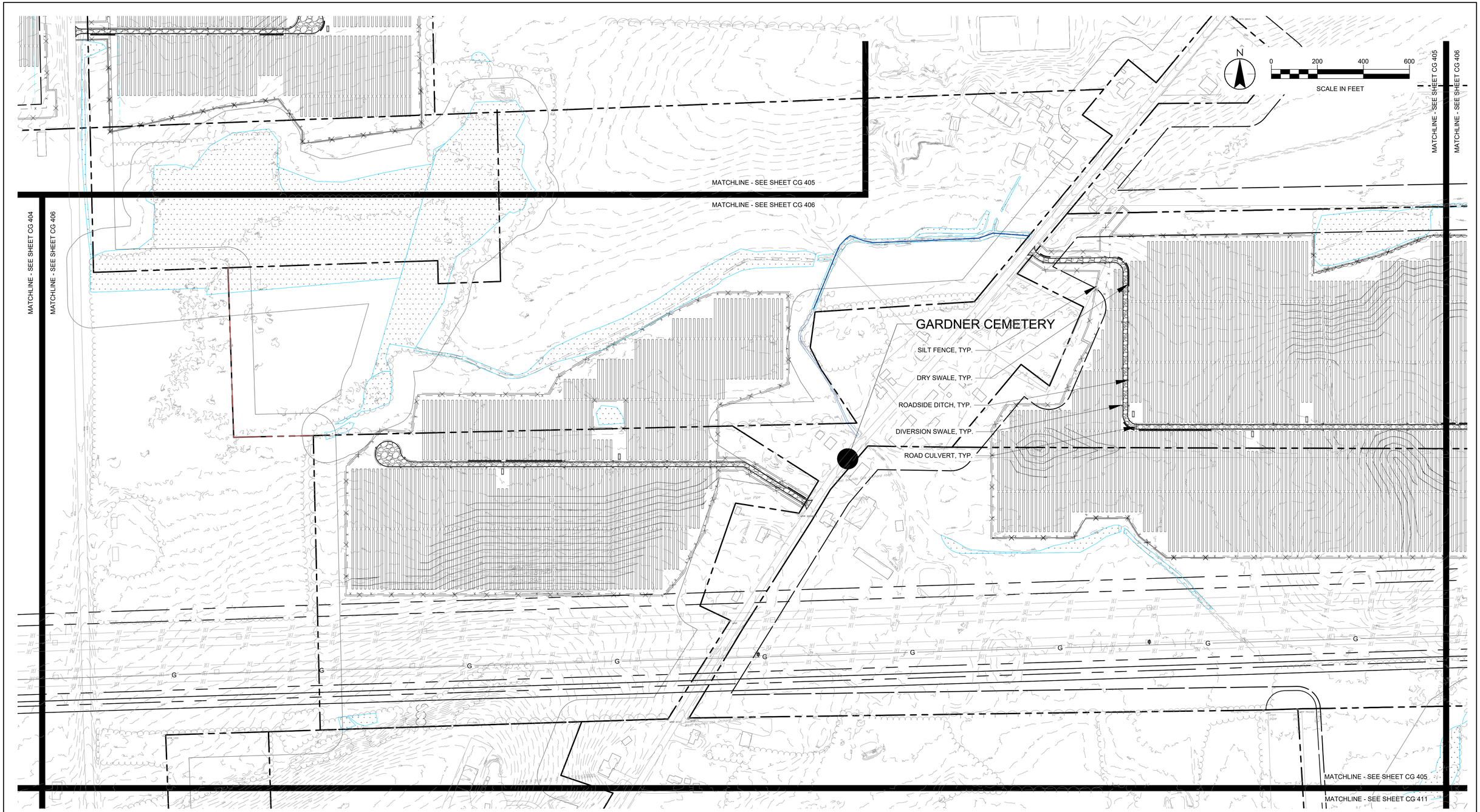

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500MW AC CIDER SOLAR FARM

EAST OAKFIELD, NY & ELBA, NY

File Name: CG406.dwg	TJC	TMP	MDF	20.12.04
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title
DETAILED GRADING AND EROSION CONTROL PLAN

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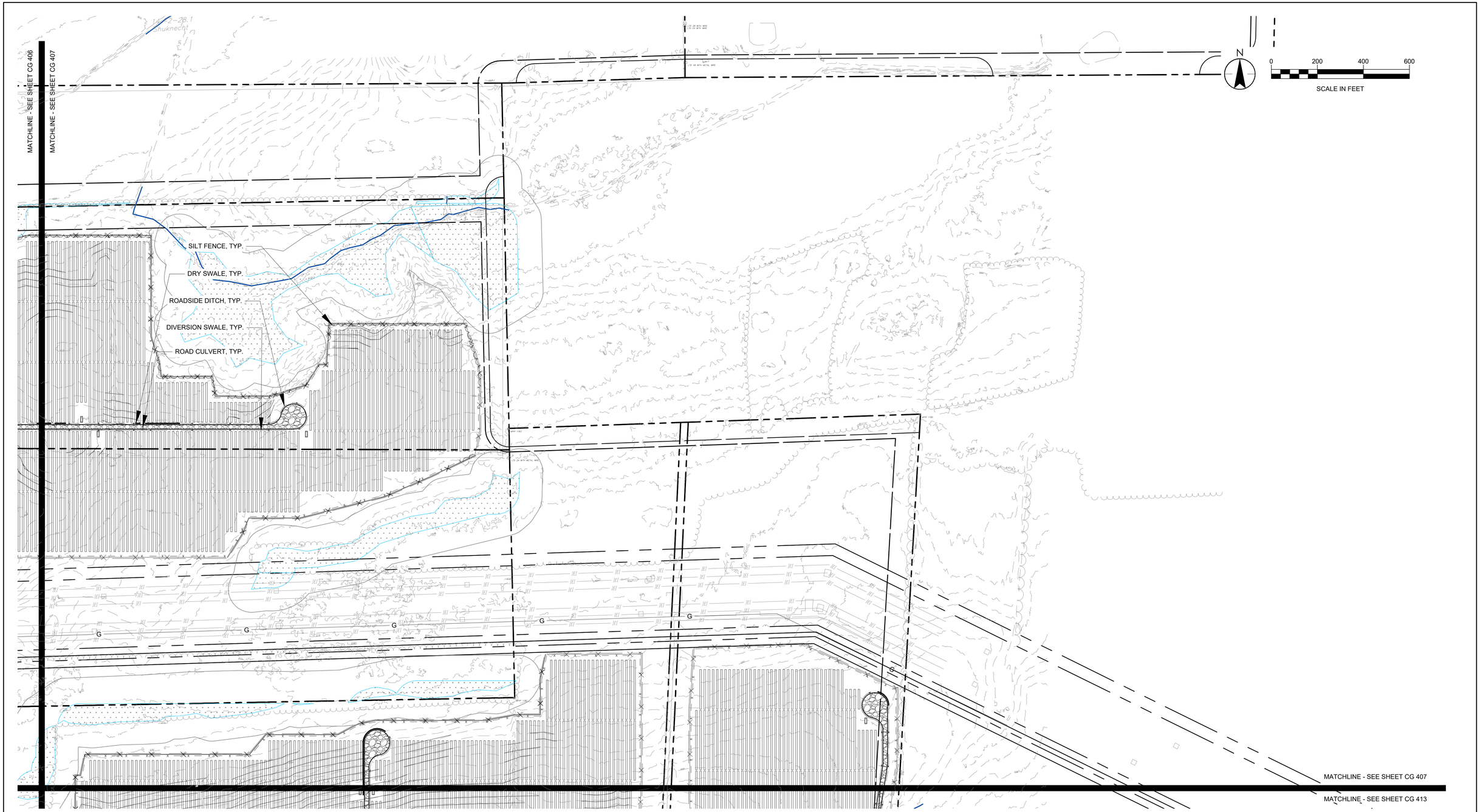

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File Name: CG407.dwg	TJC	TMP	MDF	20.12.04
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Title
DETAILED GRADING AND EROSION CONTROL PLAN

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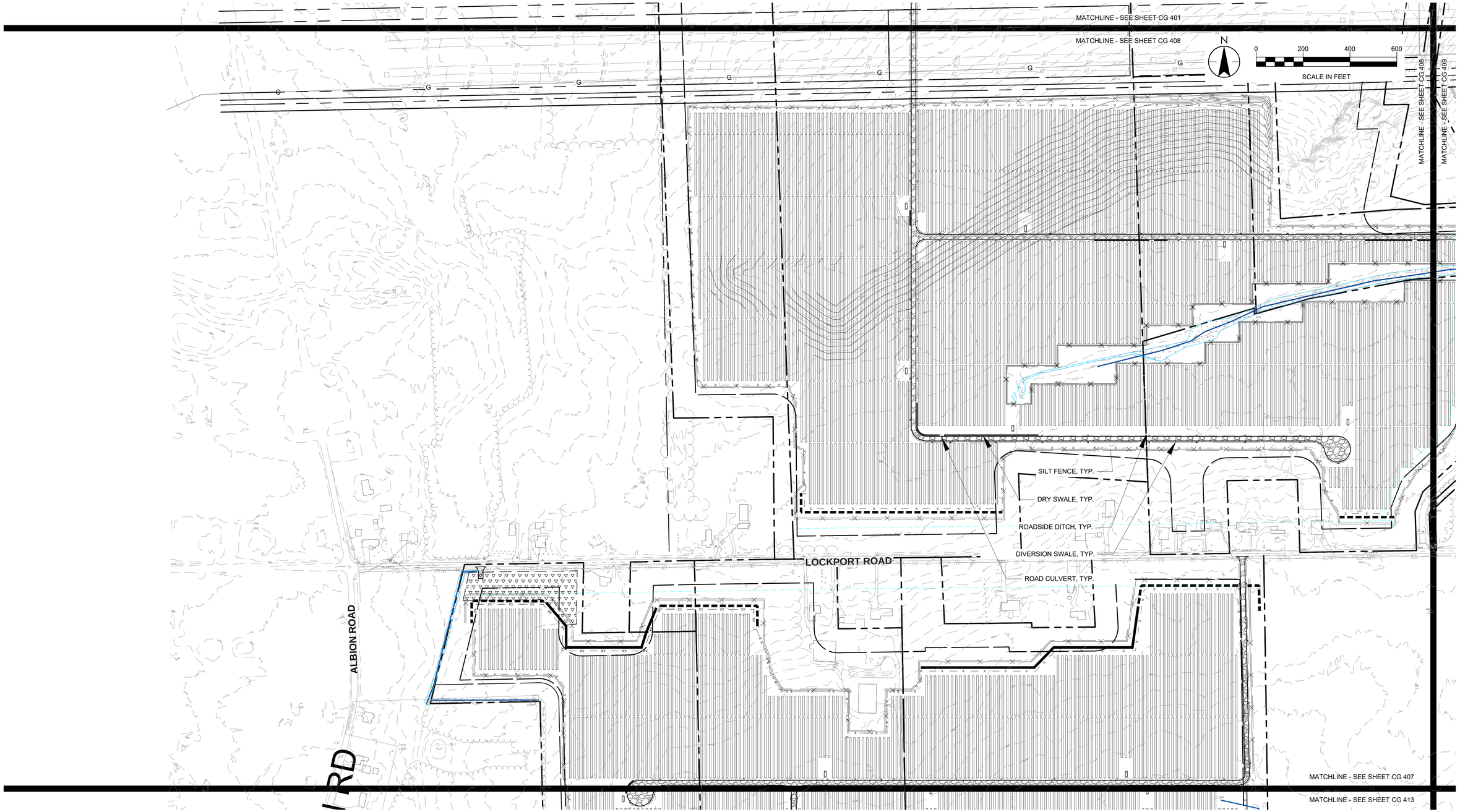

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File Name: CG408.dwg

TJC	TMP	MDF	20.12.04
Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title
DETAILED GRADING AND EROSION CONTROL PLAN

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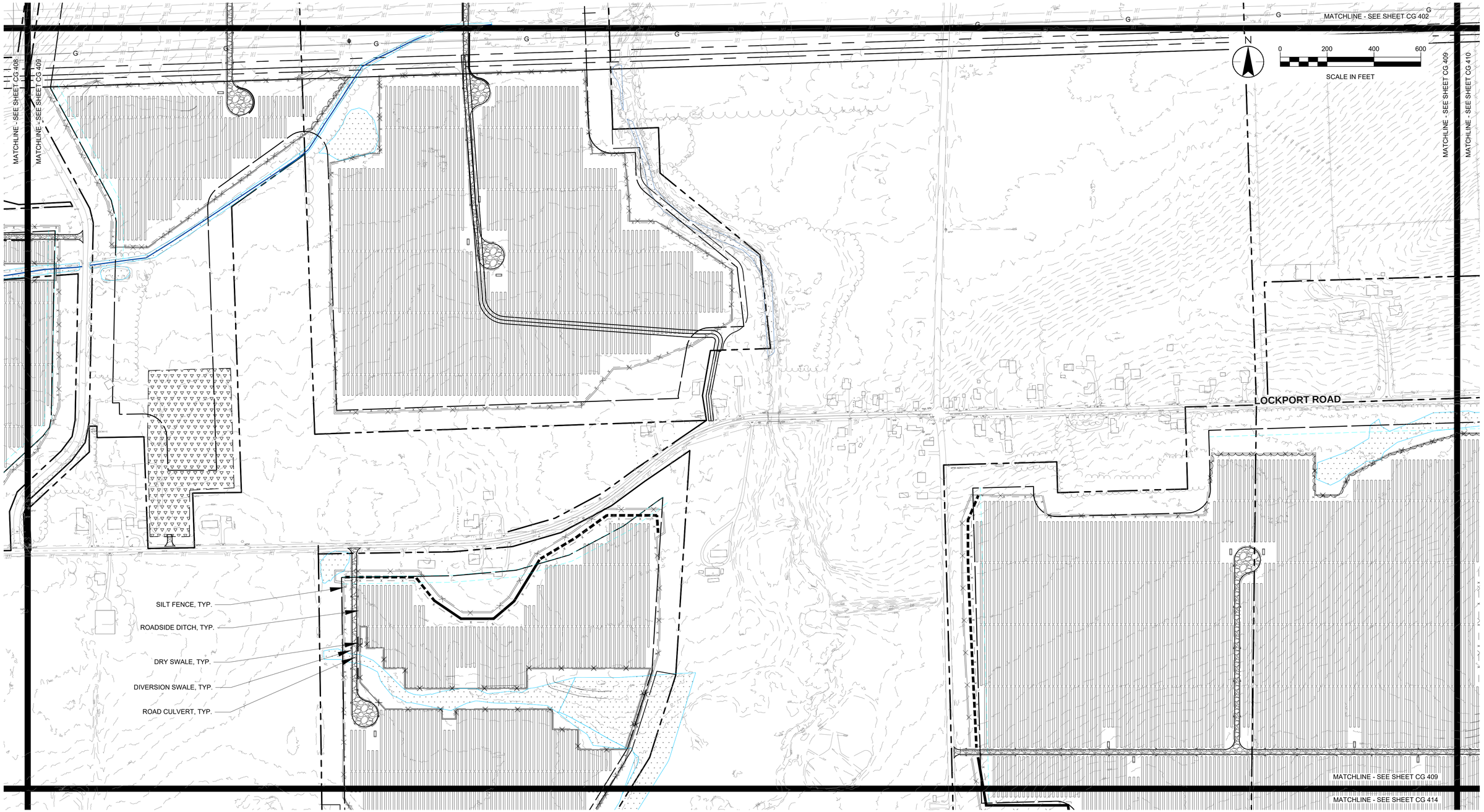

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File Name: CG409.dwg	TJC	TMP	MDF	20.12.04
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Title
DETAILED GRADING AND EROSION CONTROL PLAN

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Drawing No.	Sheet	Revision
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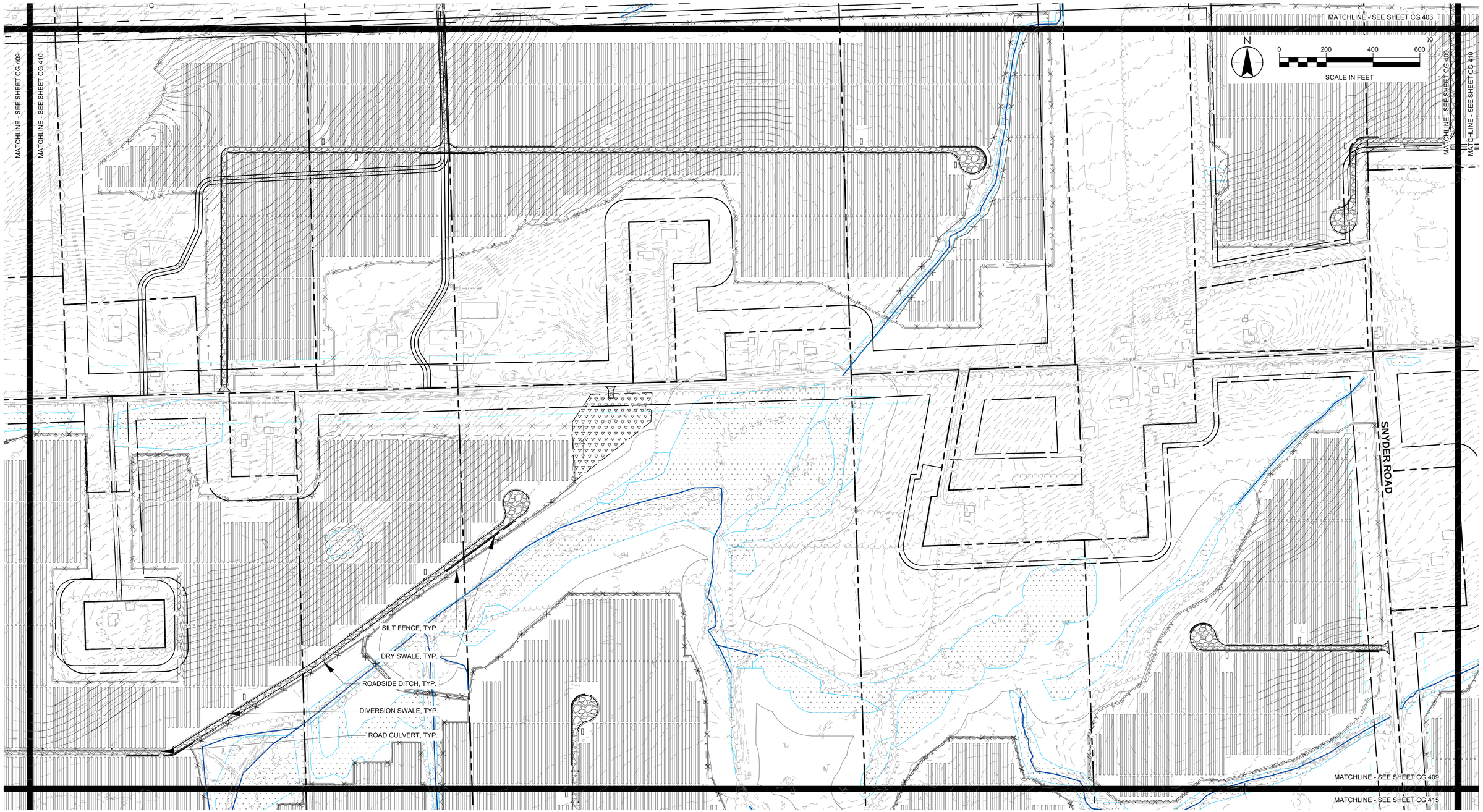

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EAST OAKFIELD, NY & ELBA, NY

File Name: CG410.dwg	TJC	TMP	MDF	20.12.04
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Drawing No.	Sheet	Revision
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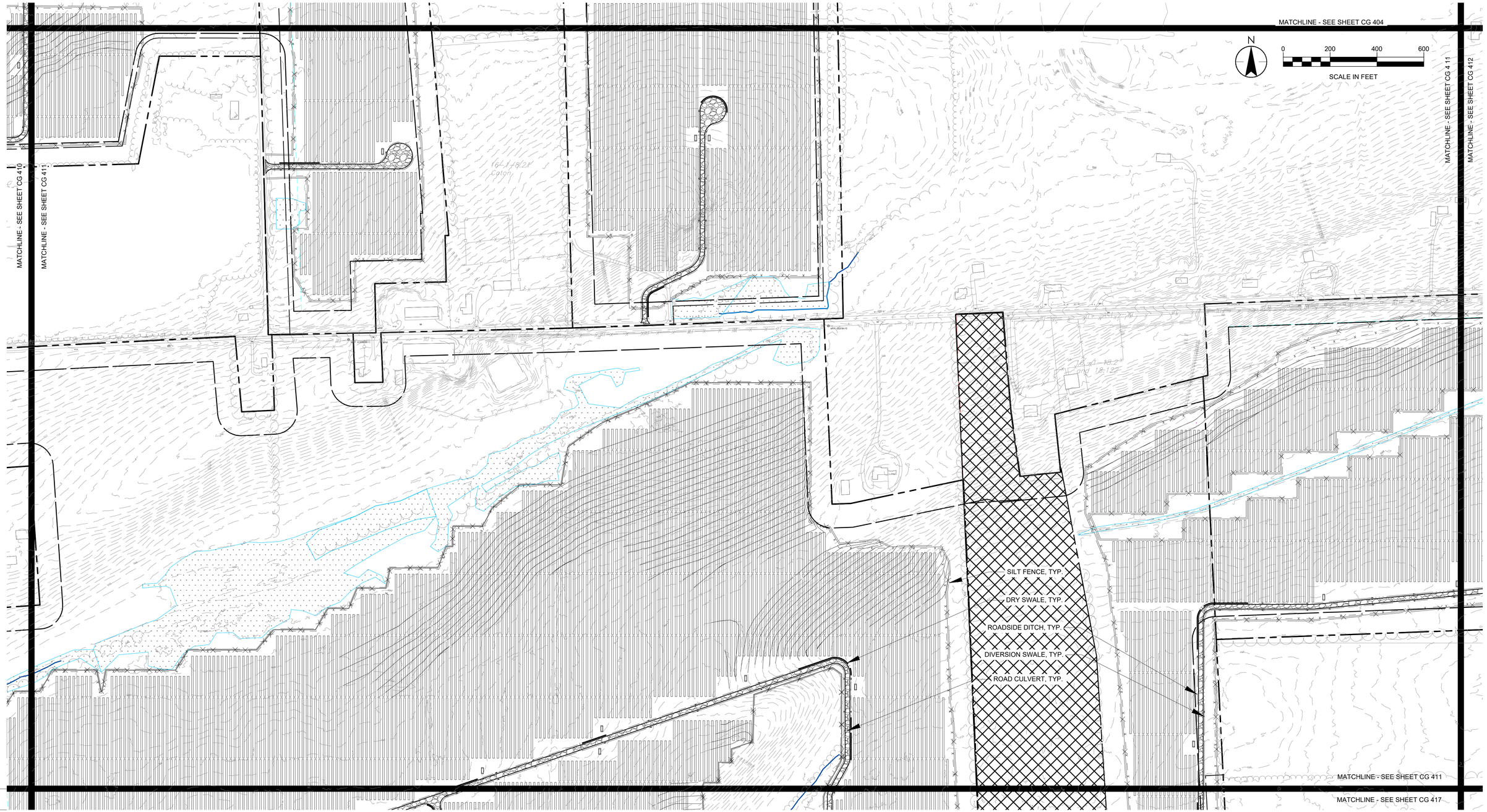

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File Name: CG411.dwg	TJC	TMP	MDF	20.12.04
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Title

DETAILED GRADING AND EROSION CONTROL PLAN

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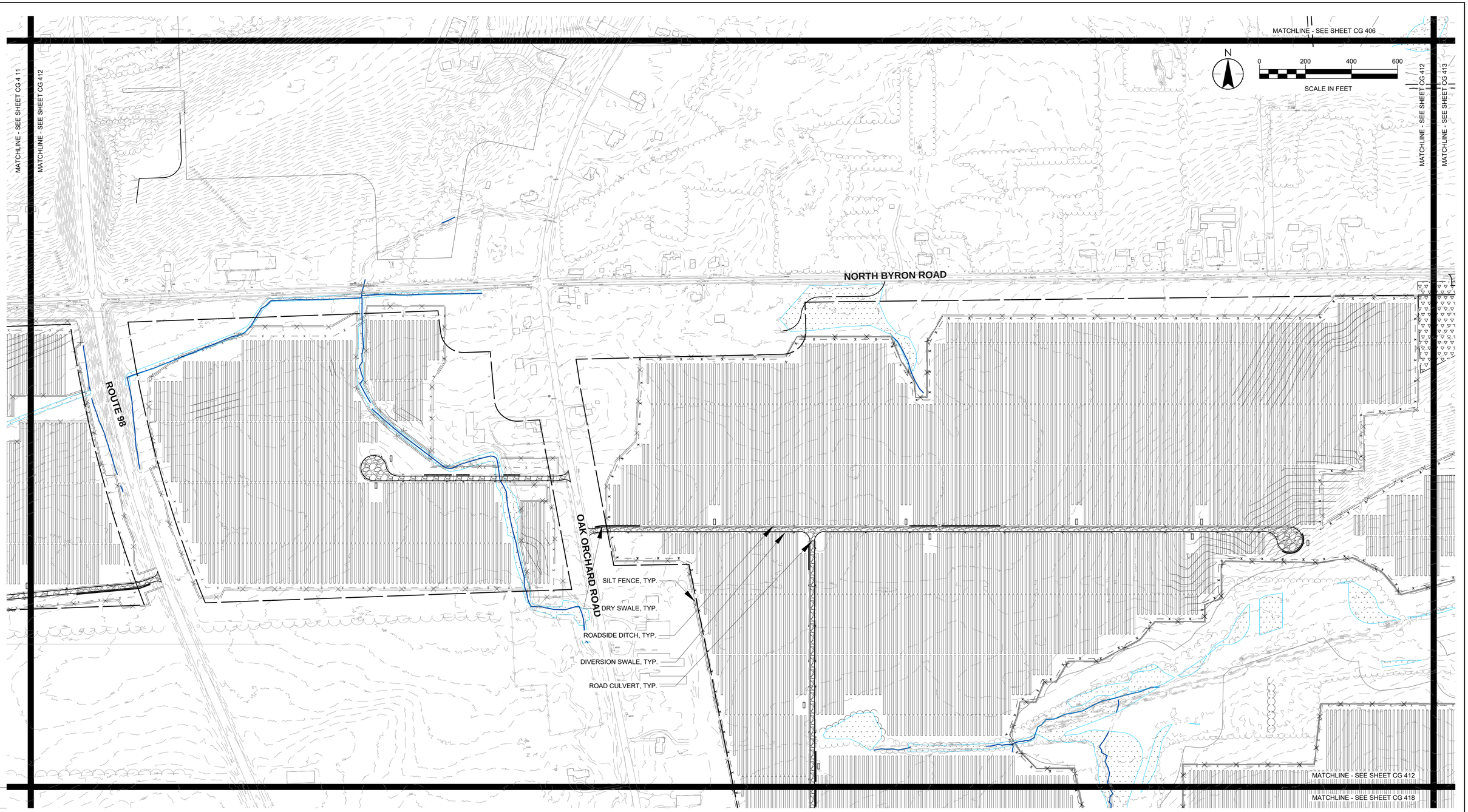

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File Name: CG412.dwg	TJC	TMP	MDF	20.12.04
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title

DETAILED GRADING AND EROSION CONTROL PLAN

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Drawing No.	**Sheet**	**Revision**
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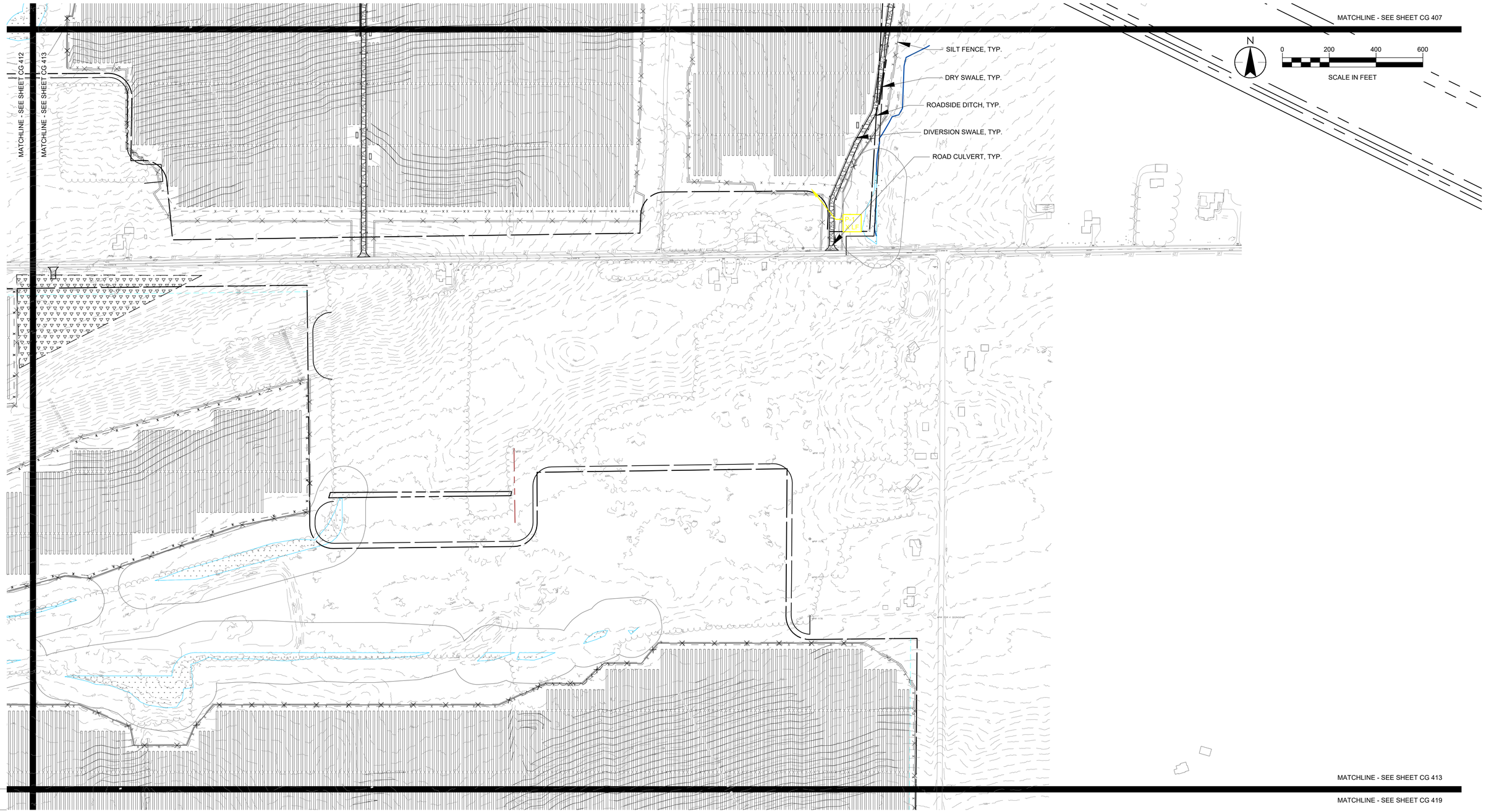

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File Name: CG413.dwg	TJC	TMP	MDF	20.12.04
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Title

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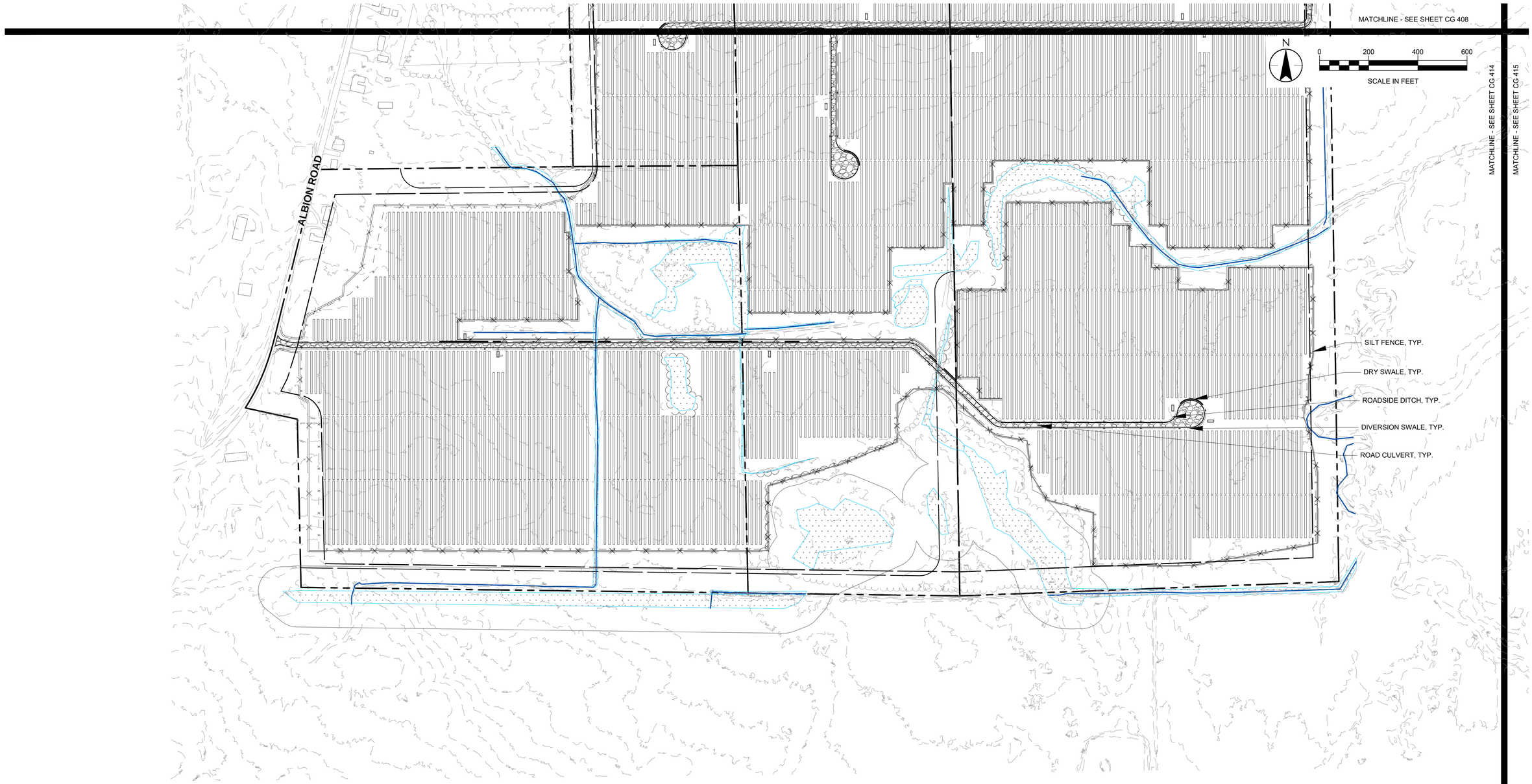

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File Name: CG414.dwg	TJC	TMP	MDF	20.12.04
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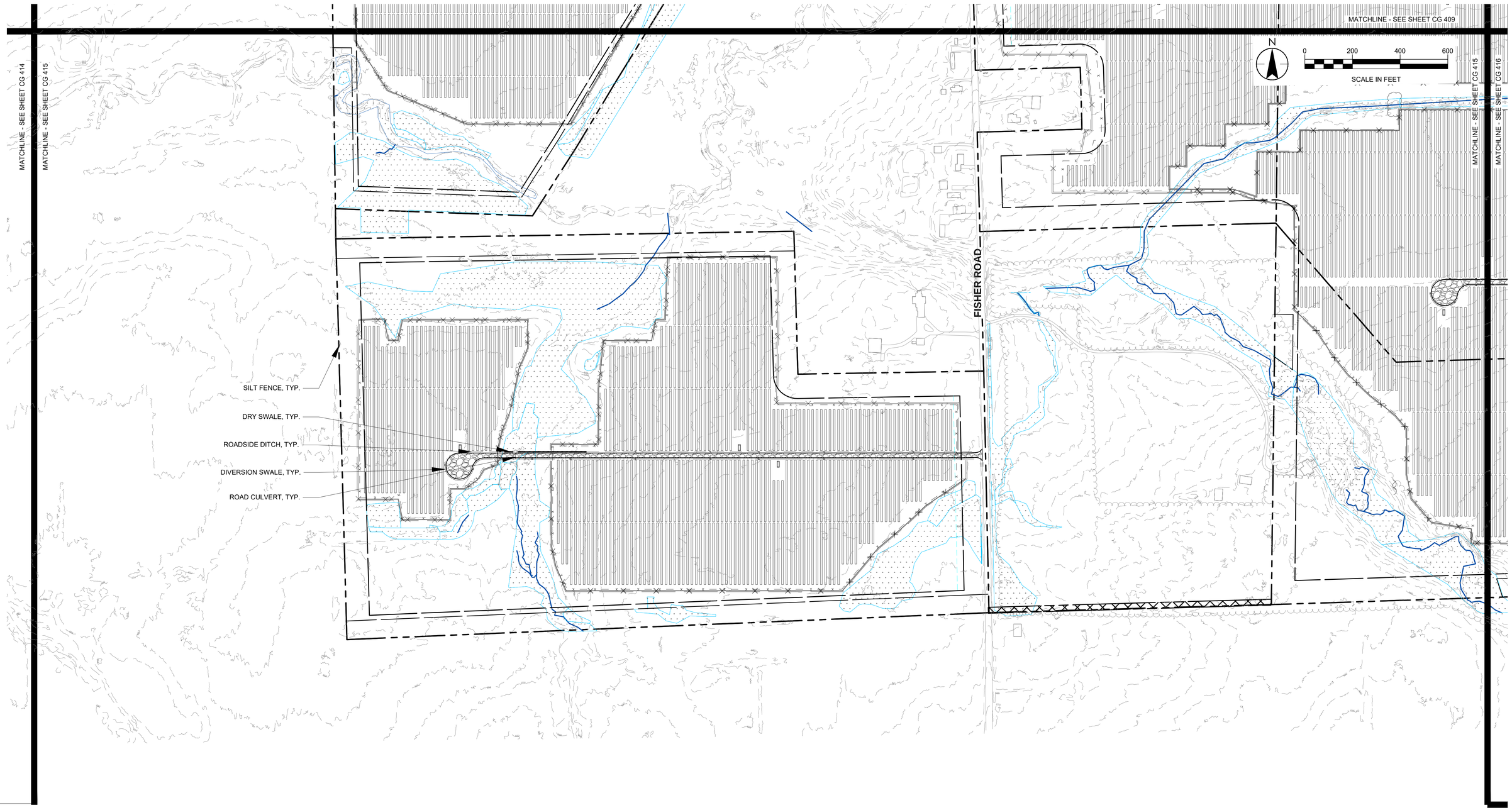

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File Name: CG415.dwg	TJC	TMP	MDF	20.12.04
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DETAILED GRADING AND EROSION CONTROL PLAN

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Drawing No.	Sheet	Revision
CG 415	01 of X	0

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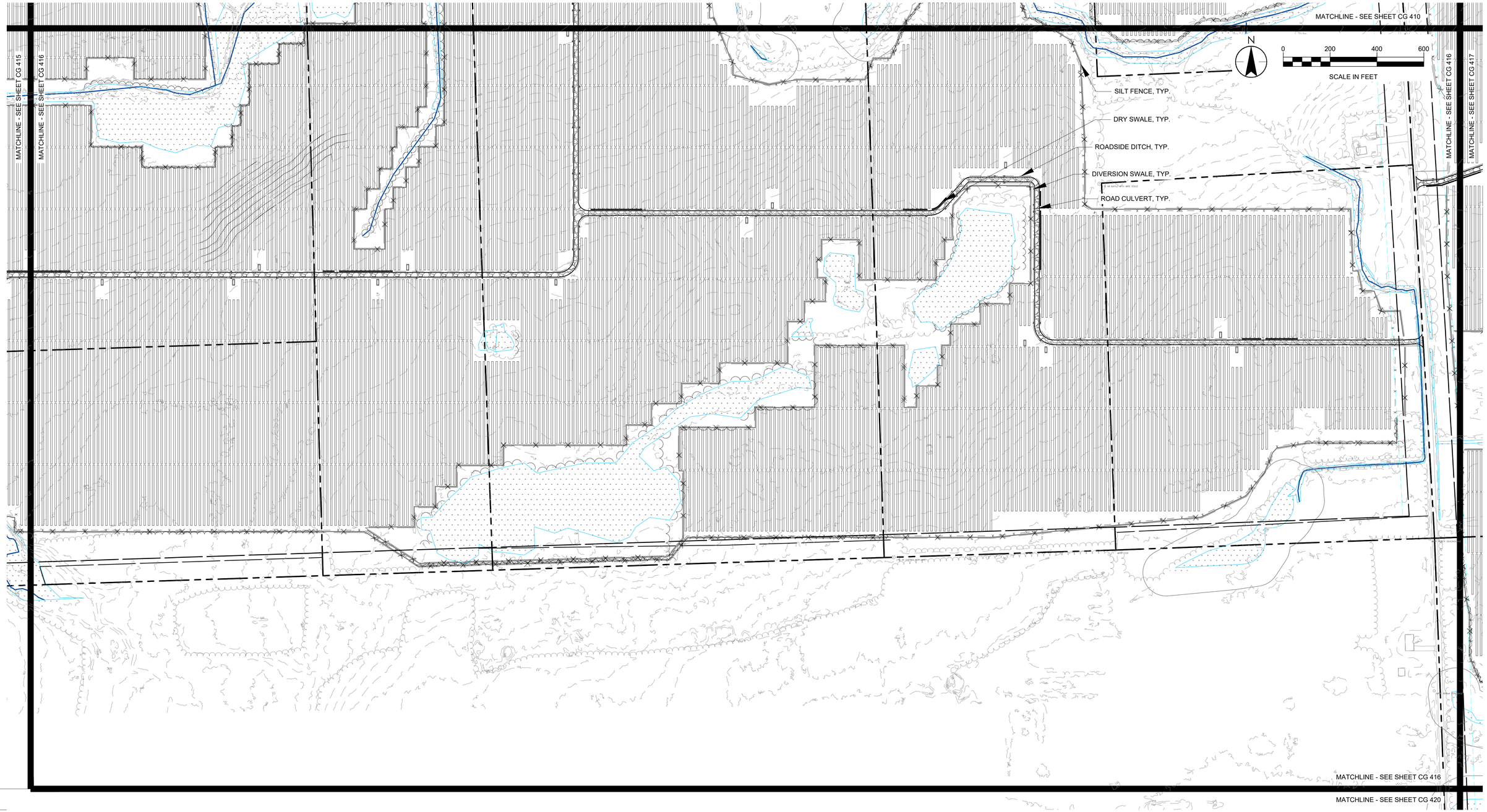

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File Name: CG416.dwg	TJC	TMP	MDF	20.12.04
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Drawing No.	**Sheet**	**Revision**
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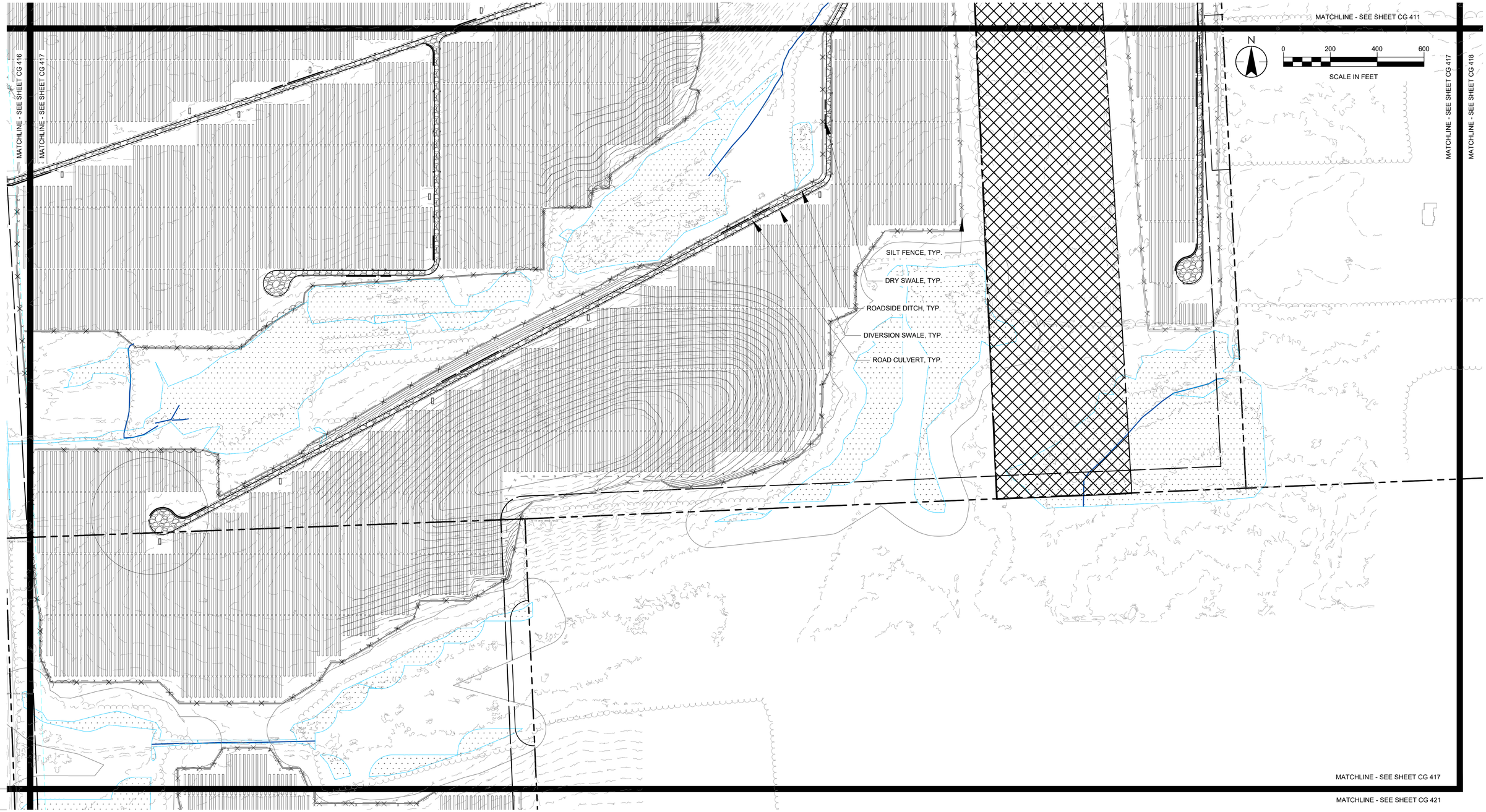

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500MW AC CIDER SOLAR FARM

EAST OAKFIELD, NY & ELBA, NY

File Name: CG417.dwg	TJC	TMP	MDF	20.12.04
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title
DETAILED GRADING AND EROSION CONTROL PLAN

Project No.	Scale	
190502038	1"=200'	
Drawing No.	**Sheet**	**Revision**
CG 417	01 of X	0

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2021/04/19 9:02 AM By: Dynik, Lindsay

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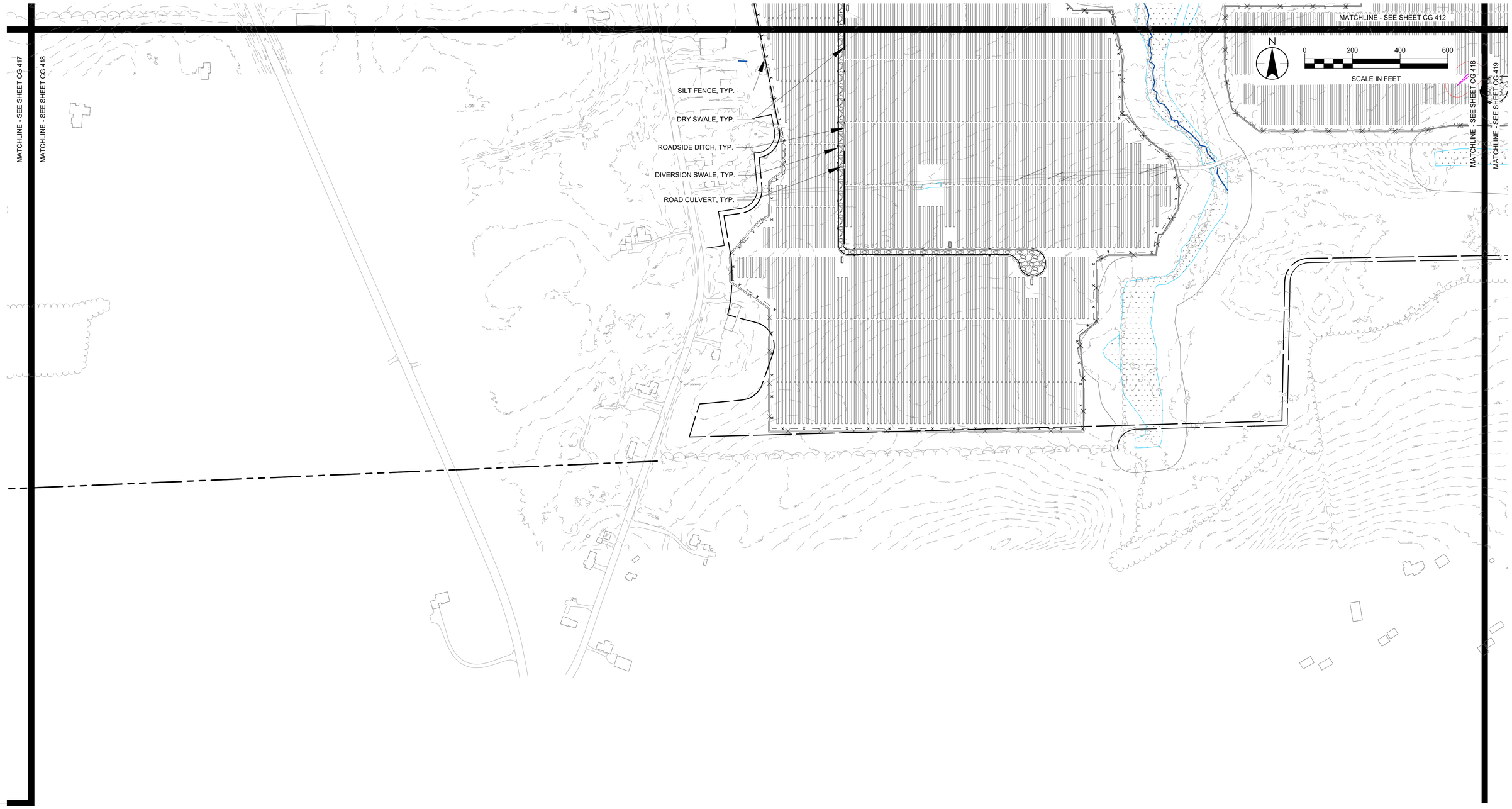

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HECATE ENERGY CIDER SOLAR LLC
500MW AC CIDER SOLAR FARM

EAST OAKFIELD, NY & ELBA, NY

File Name: CG418.dwg	TJC	TMP	MDF	20.12.04
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title

DETAILED GRADING AND EROSION CONTROL PLAN

Project No.	Scale	
190502038	1"=200'	
Drawing No.	**Sheet**	**Revision**
CG 418	01 of X	0

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2021/04/19 9:04 AM By: Synvk, Lindsay

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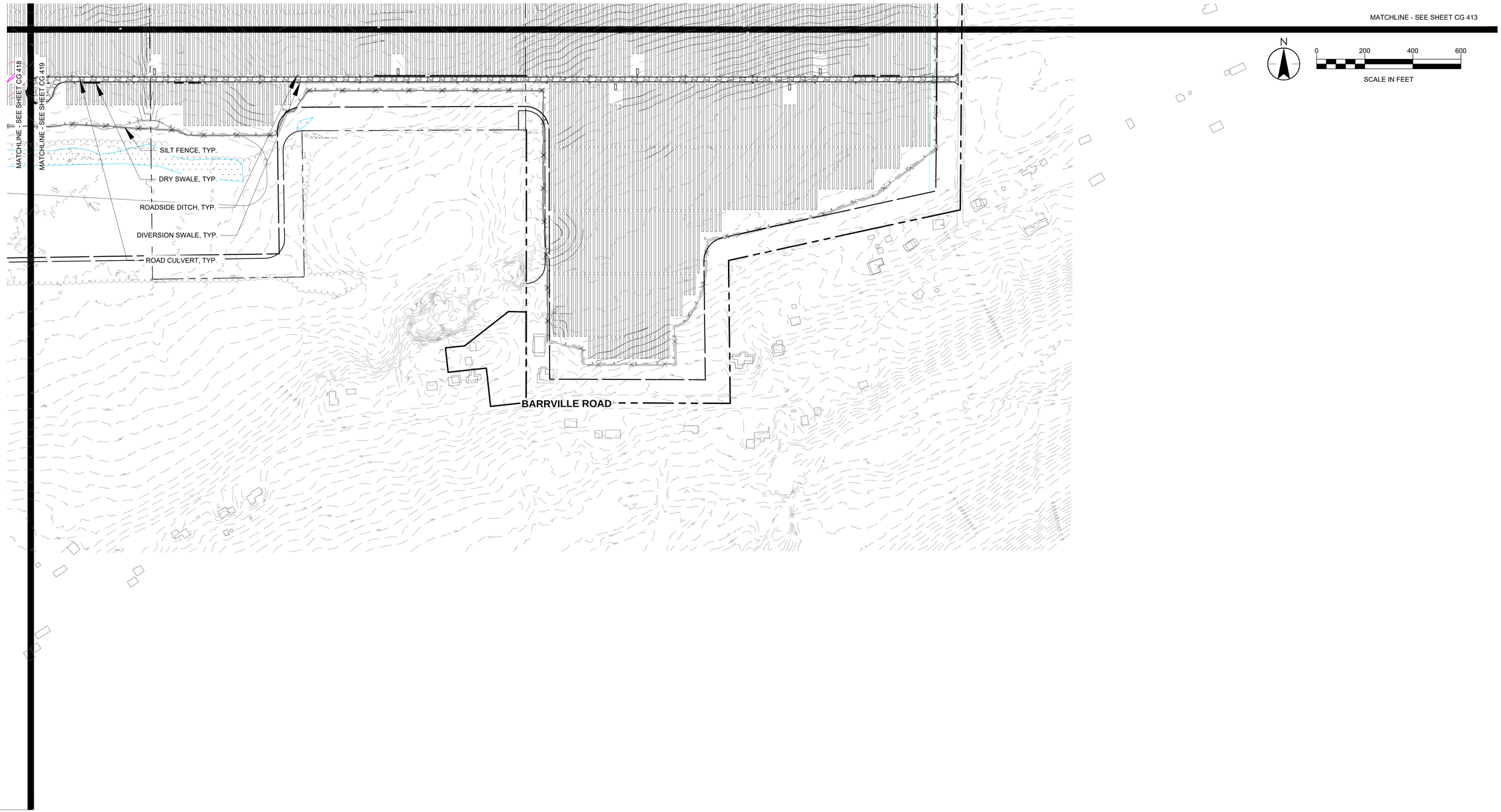

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500MW AC CIDER SOLAR FARM

EAST OAKFIELD, NY & ELBA, NY

File Name: CG419.dwg	TJC	TMP	MDF	20.12.04
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title

DETAILED GRADING AND EROSION CONTROL PLAN

Project No.	Scale	
190502038	1"=200'	
Drawing No.	**Sheet**	**Revision**
CG 419	01 of X	0

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2021/04/12 9:06 AM By: Dynik, Lindsay

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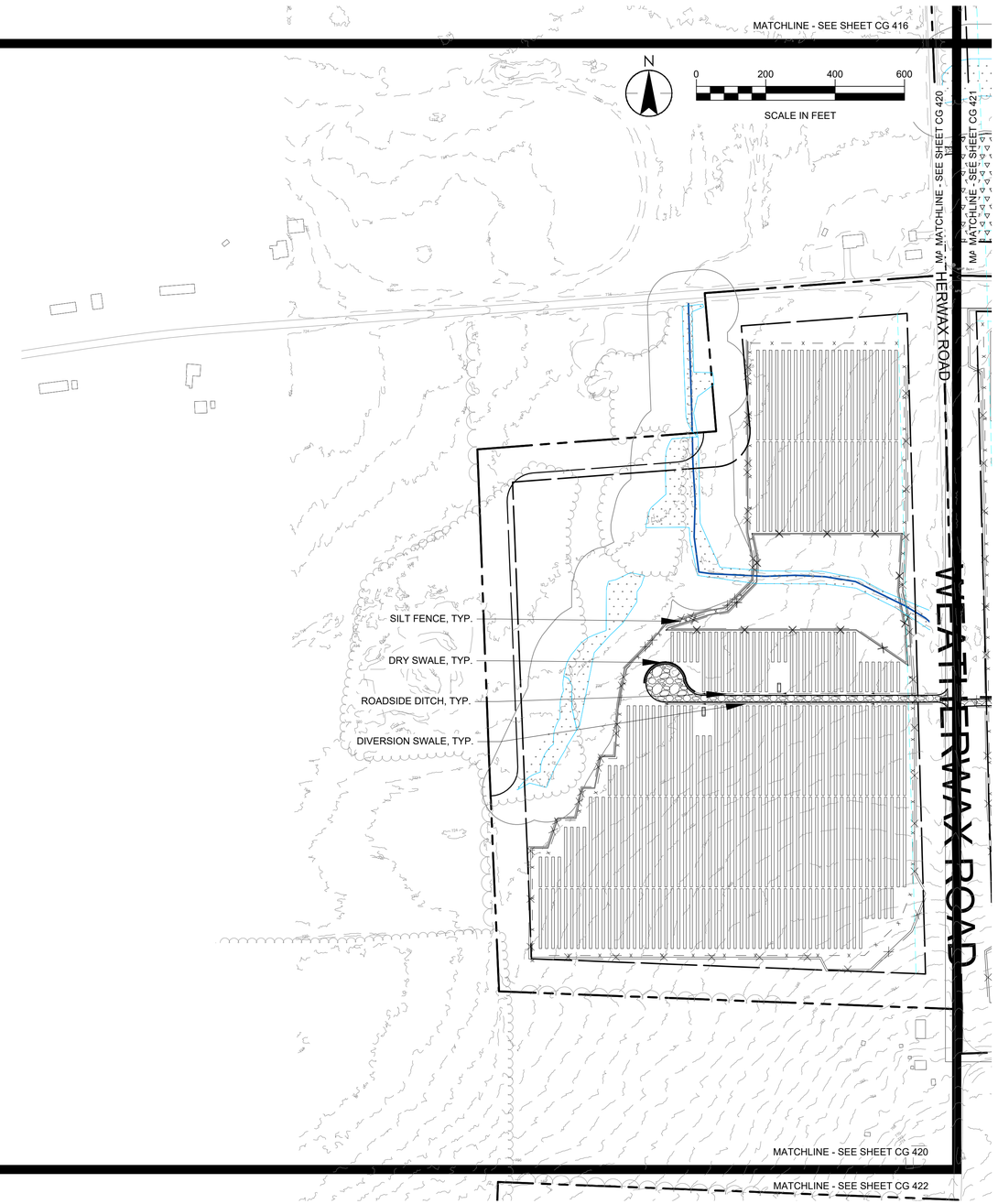

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500MW AC CIDER SOLAR FARM

EAST OAKFIELD, NY & ELBA, NY

File Name: CG420.dwg	TJC	TMP	MDF	20.12.04
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title
DETAILED GRADING AND EROSION CONTROL PLAN

Project No.	Scale	
190502038	1"=200'	
Drawing No.	**Sheet**	**Revision**
CG 420	01 of X	0

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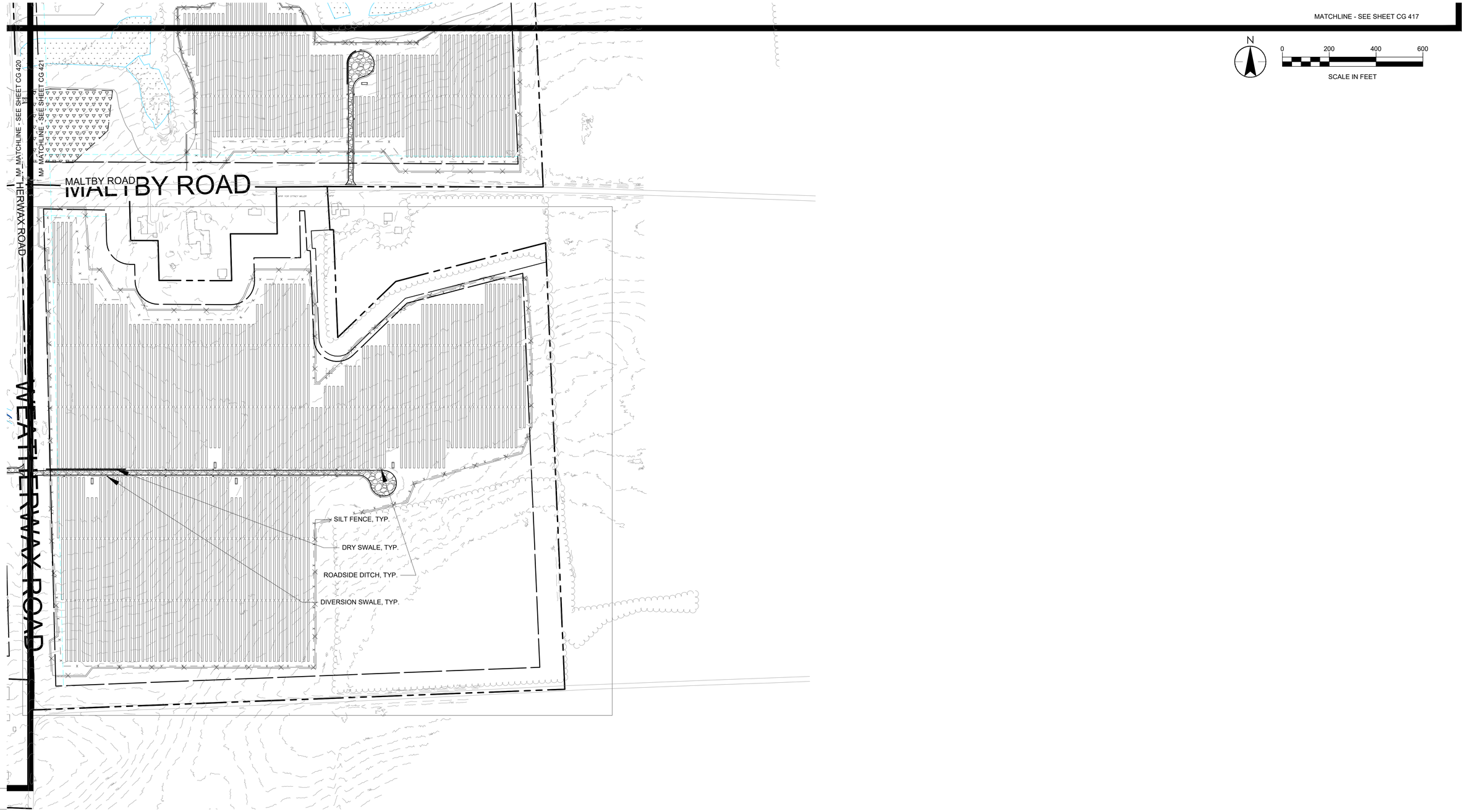

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500MW AC CIDER SOLAR FARM

EAST OAKFIELD, NY & ELBA, NY

File Name: CG421.dwg	TJC	TMP	MDF	20.12.04
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title

DETAILED GRADING AND EROSION CONTROL PLAN

Project No.	Scale	
190502038	1"=200'	
Drawing No.	Sheet	Revision
CG 421	01 of X	0

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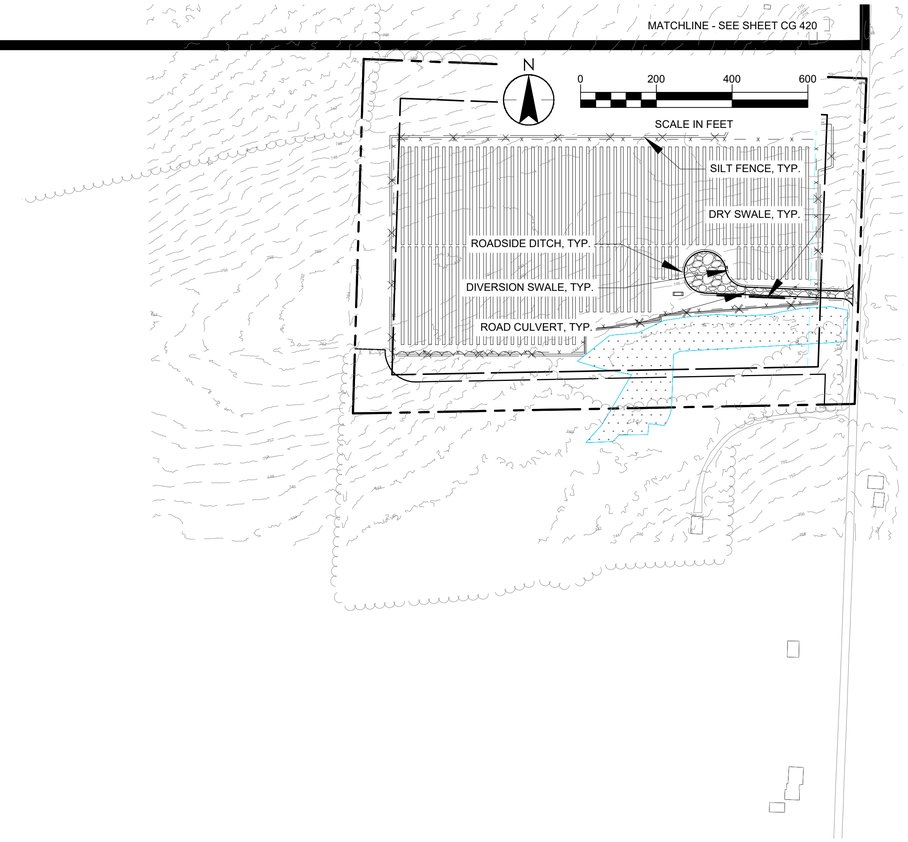

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Client/Project
HECATE ENERGY CIDER SOLAR LLC
500MW AC CIDER SOLAR FARM

EAST OAKFIELD, NY & ELBA, NY

File Name: CG422.dwg	TJC	TMP	MDF	20.12.04
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title
DETAILED GRADING AND EROSION CONTROL PLAN

Project No.	Scale	
190502038	1"=200'	
Drawing No.	Sheet	Revision
CG 422	01 of X	0

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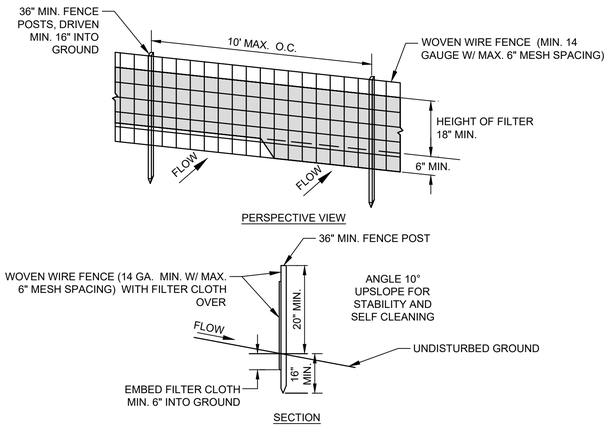
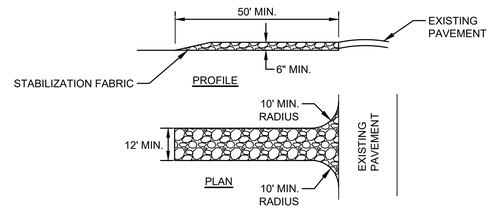


CONSTRUCTION NOTES FOR FABRICATED FENCE:

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T"OR "U" TYPE OR HARDWOOD
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE 6" MAXIMUM MESH OPENINGS
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT
4. PREFABRICATED UNITS SHALL MEET THE MINIMUM REQUIREMENTS SHOWN
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

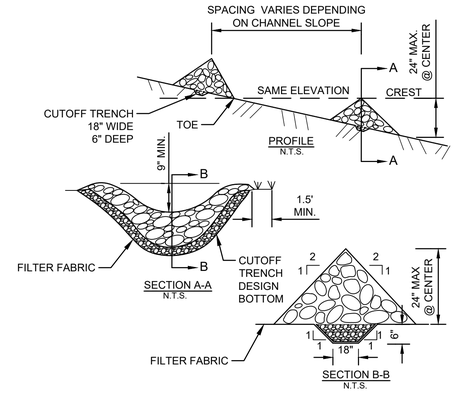
1 SILT FENCE
N.T.S.



CONSTRUCTION NOTES:

1. STONE SIZE - USE 1-4" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

2 STABILIZED CONSTRUCTION ENTRANCE
N.T.S.

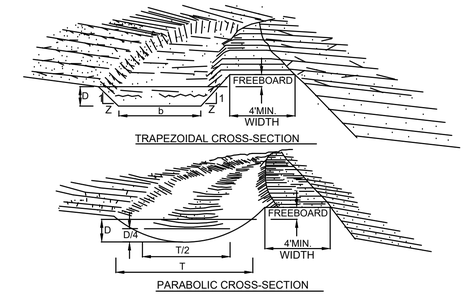


NOTES:

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.

MAXIMUM DRAINAGE AREA 2 ACRES

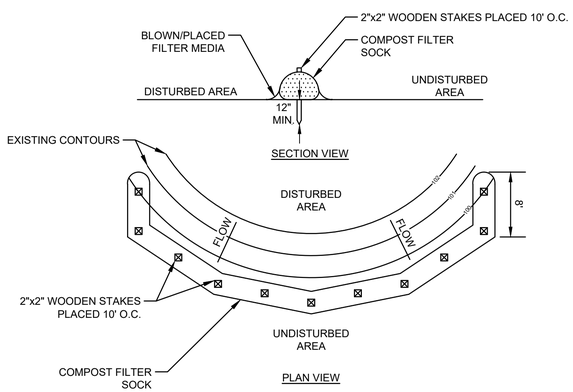
3 STONE CHECK DAM
N.T.S.



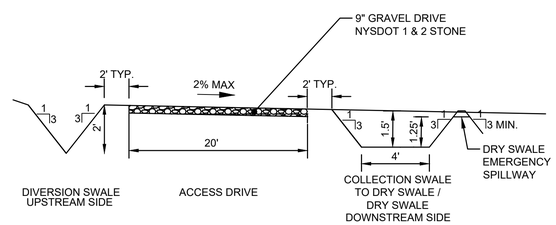
CONSTRUCTION NOTES FOR DIVERSION:

1. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE DIVERSION.
2. THE DIVERSION SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN, AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
3. FILLS SHALL BE COMPACTED AS NEEDED TO PREVENT UNEQUAL SETTLEMENT THAT WOULD CAUSE DAMAGE IN THE COMPLETED DIVERSION.
4. ALL EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE DIVERSION.
5. STABILIZATION SHALL BE DONE ACCORDING TO THE APPROPRIATE STANDARD AND SPECIFICATIONS FOR VEGETATIVE PRACTICES.
   A. FOR DESIGN VELOCITIES OF LESS THAN 3.5 FT. PER. SEC., SEEDING AND MULCHING MAY BE USED FOR THE ESTABLISHMENT OF VEGETATION. IT IS RECOMMENDED THAT, WHEN CONDITIONS PERMIT, TEMPORARY DIVERSIONS OR OTHER MEANS SHOULD BE USED TO PREVENT WATER FROM ENTERING THE DIVERSION DURING THE ESTABLISHMENT OF THE VEGETATION.
   B. FOR DESIGN VELOCITIES OF MORE THAN 3.5 FT. PER. SEC., THE DIVERSION SHALL BE STABILIZED WITH SOD, WITH SEEDING PROTECTED BY JUTE OR EXCELSIOR MATTING OR WITH SEEDING AND MULCHING INCLUDING TEMPORARY DIVERSION OF THE WATER UNTIL THE VEGETATION IS ESTABLISHED.

4 DIVERSION SWALE
N.T.S.



5 COMPOST FILTER SOCK
N.T.S.



6 GRAVEL ACCESS ROAD TYPICAL CROSS SECTION
N.T.S.

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HECATE ENERGY CIDER SOLAR LLC
500MW AC CIDER SOLAR FARM

EAST OAKFIELD, NY & ELBA, NY

File Name: C500.dwg	TJC	TMP	MDF	20.12.04
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title
EROSION AND SEDIMENT CONTROL DETAILS

Project No.	Scale	
190502038	N.T.S.	
Drawing No.	Sheet	Revision
CG 500	XX of X	0

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2021/04/12 3:51 PM By: Farmer, Matt

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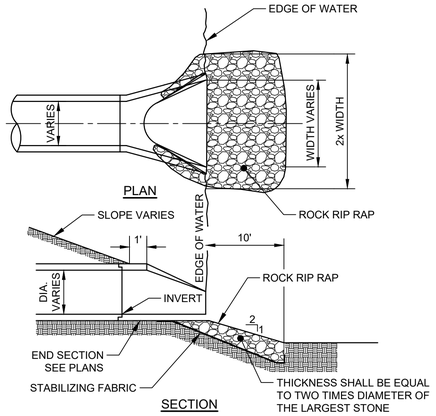

NOTE: ROCK RIP RAP SHALL BE NYSDOT ITEM NO.620.04

1 END SECTION RIP RAP DETAIL
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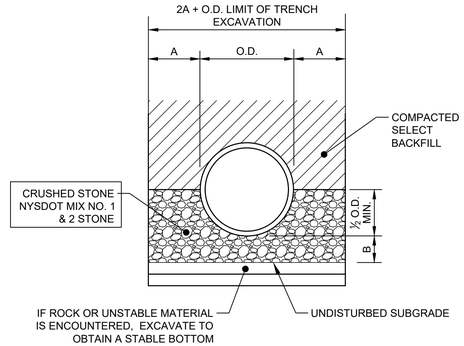
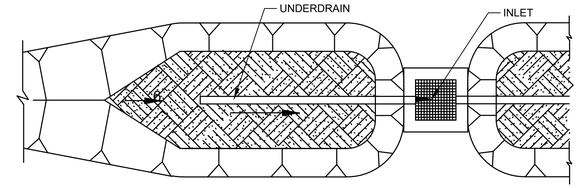
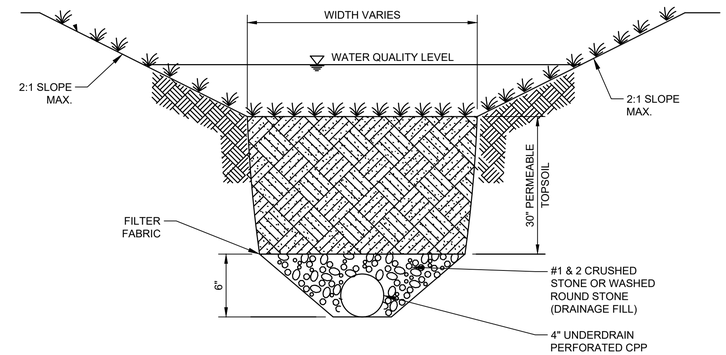


STONE CRADLE
(RCP, VCP, DIP, CMP)

MIN. DIMENSIONS FOR PIPE BEDDING		
PIPE DIA. (INCHES)	A (INCHES)	B (INCHES)
Up to 18	12	6
21 to 36	12	9
Over 36	18	12

2 STORM SEWER PIPE BEDDING DETAIL
N.T.S.





NOTE: FOR PERMEABLE SOIL, SEE MOST CURRENT EDITION OF NYSDOT SPECIFICATIONS - ITEM NO. 208.01030022

3 DRY SWALE DETAIL
N.T.S.

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500MW AC CIDER SOLAR FARM

EAST OAKFIELD, NY & ELBA, NY

File Name: CS01.dwg	TJC	TMP	MDF	20.12.04
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title
DRAINAGE DETAILS

Project No.	Scale	
190502038	N.T.S.	
Drawing No.	Sheet	Revision
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2021/04/12 3:52 PM By: Farmer, Matt

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