

SOLAR CITY

BECTON, DICKINSON, & CO.

SOLAR PANEL FACILITY

7 GRACE WAY

NORTH CANAAN, CT 06018

DRAWING INDEX

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SITE INFORMATION

SITE NAME: "BECTON, DICKINSON, & CO. - CANAAN LREC"
PROJECT LOCATION: 7 GRACE WAY
NORTH CANAAN, CT 06018

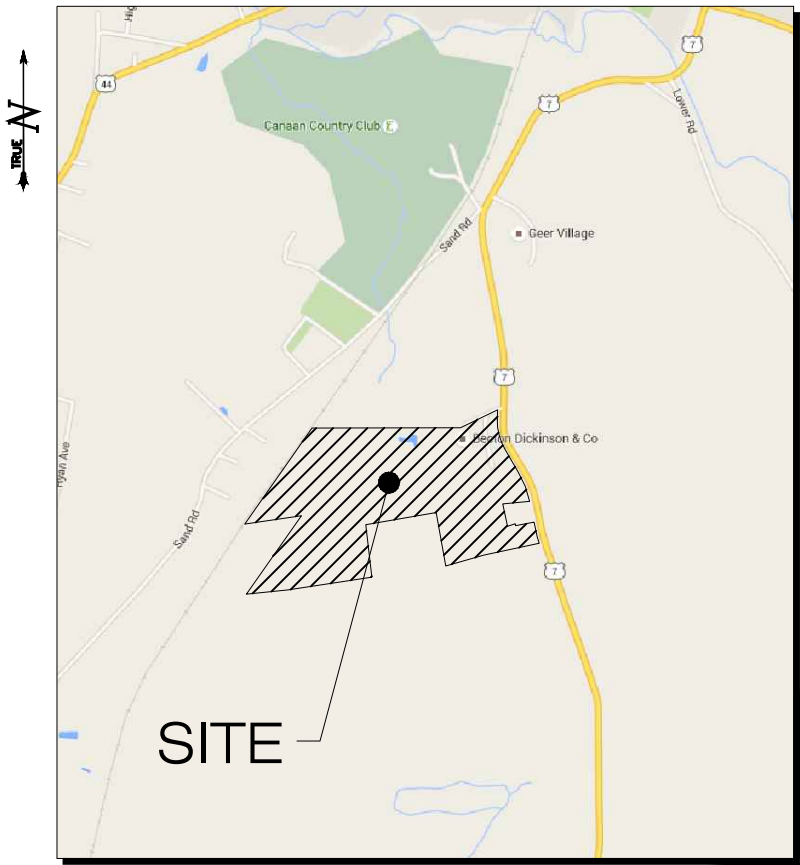
SITE TYPE/DESCRIPTION: ADD (1) ROOF MOUNTED SOLAR PANEL ARRAY (PLANS UNDER SEPARATE COVER BY OTHERS) & (2) GROUND MOUNTED SOLAR PANEL ARRAYS W/ ASSOCIATED GRAVEL ACCESS DRIVES & EQUIPMENT. ADD CHAIN LINK FENCE TO SURROUND NEW FACILITY & ELECTRIC INTERCONNECTION FROM NEW FACILITY TO EXIST. ELECTRICAL GRID.

PROPERTY OWNER: BECTON, DICKINSON, & CO.
1 BECTON DRIVE
FRANKLIN LAKES, NJ 07417

ENGINEER CONTACT: BRAD PARSONS
(860) 663-1697 x208

LATITUDE: 42°00'30"N
LONGITUDE: 73°20'13"W
ELEVATION: 662'± AMSL

ZONE: I-ZONE (INDUSTRIAL)
FEMA FIRM DESIGNATION: PANEL #0901490014C - ZONE X
TOTAL SITE ACREAGE: 77.13 ACRES
TOTAL DISTURBED AREA: 9.37± ACRES



LOCATION MAP

SCALE: 1"=1000'

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KILLINGWORTH, CT 06419 FAX: (860)-663-0935
WWW.ALLPOINTSTECH.COM

PERMIT DOCUMENTS		
NO	DATE	REVISION
0	02/24/16	FOR REVIEW: EEL
1	04/22/16	FOR REVIEW: BJP
2	06/10/16	CLIENT COMMENTS: BJP
3		
4		
5		
6		

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION
ADD: 3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419

OWNER: BECTON, DICKINSON & COMPANY
ADDRESS: 1 BECTON DRIVE
FRANKLIN LAKES, NJ 07417
(201) 847-6800

SITE 7 GRACE WAY
ADDRESS: NORTH CANAAN, CT 06018

APT FILING NUMBER: CT-478-120

	DRAWN BY: CSH
DATE: 02/24/16	CHECKED BY: EEL

SHEET TITLE:

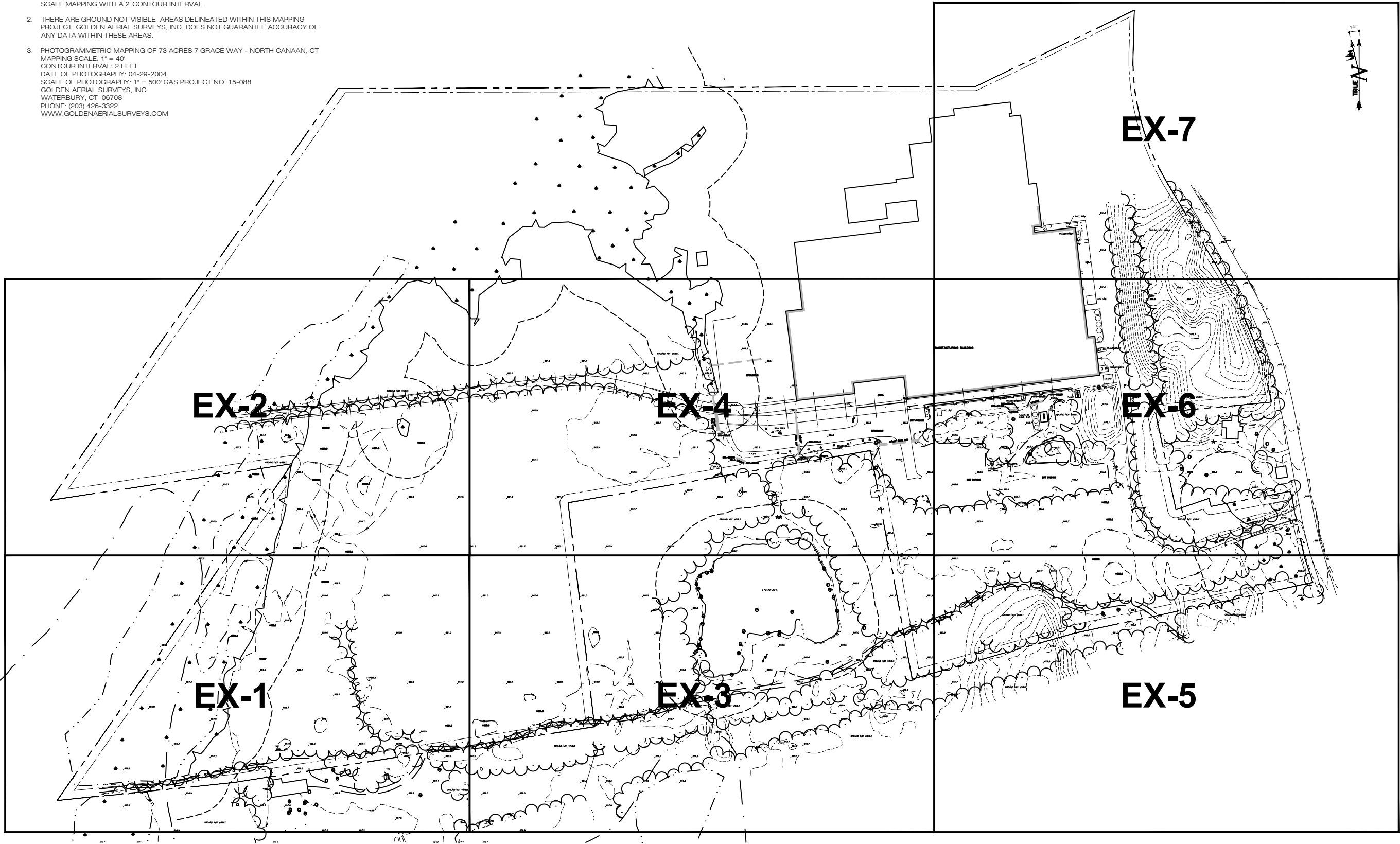
COVER SHEET
& INDEX

SHEET NUMBER:

CV-1

SURVEY NOTES:

1. THIS MAPPING MEETS NATIONAL MAP ACCURACY STANDARDS FOR CLASS II 40 SCALE MAPPING WITH A 2' CONTOUR INTERVAL.
2. THERE ARE GROUND NOT VISIBLE AREAS DELINEATED WITHIN THIS MAPPING PROJECT. GOLDEN AERIAL SURVEYS, INC. DOES NOT GUARANTEE ACCURACY OF ANY DATA WITHIN THESE AREAS.
3. PHOTOGRAMMETRIC MAPPING OF 73 ACRES 7 GRACE WAY - NORTH CANAAN, CT
MAPPING SCALE: 1" = 40'
CONTOUR INTERVAL: 2 FEET
DATE OF PHOTOGRAPHY: 04-29-2004
SCALE OF PHOTOGRAPHY: 1" = 500' GAS PROJECT NO. 15-088
GOLDEN AERIAL SURVEYS, INC.
WATERBURY, CT 06708
PHONE: (203) 426-3322
WWW.GOLDENAERIALSURVEYS.COM



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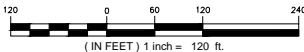
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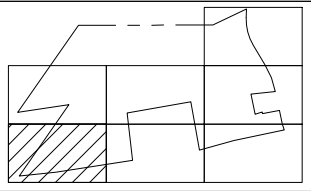
**OVERALL
EXISTING CONDITIONS
PLAN**

SHEET NUMBER:

EX-0

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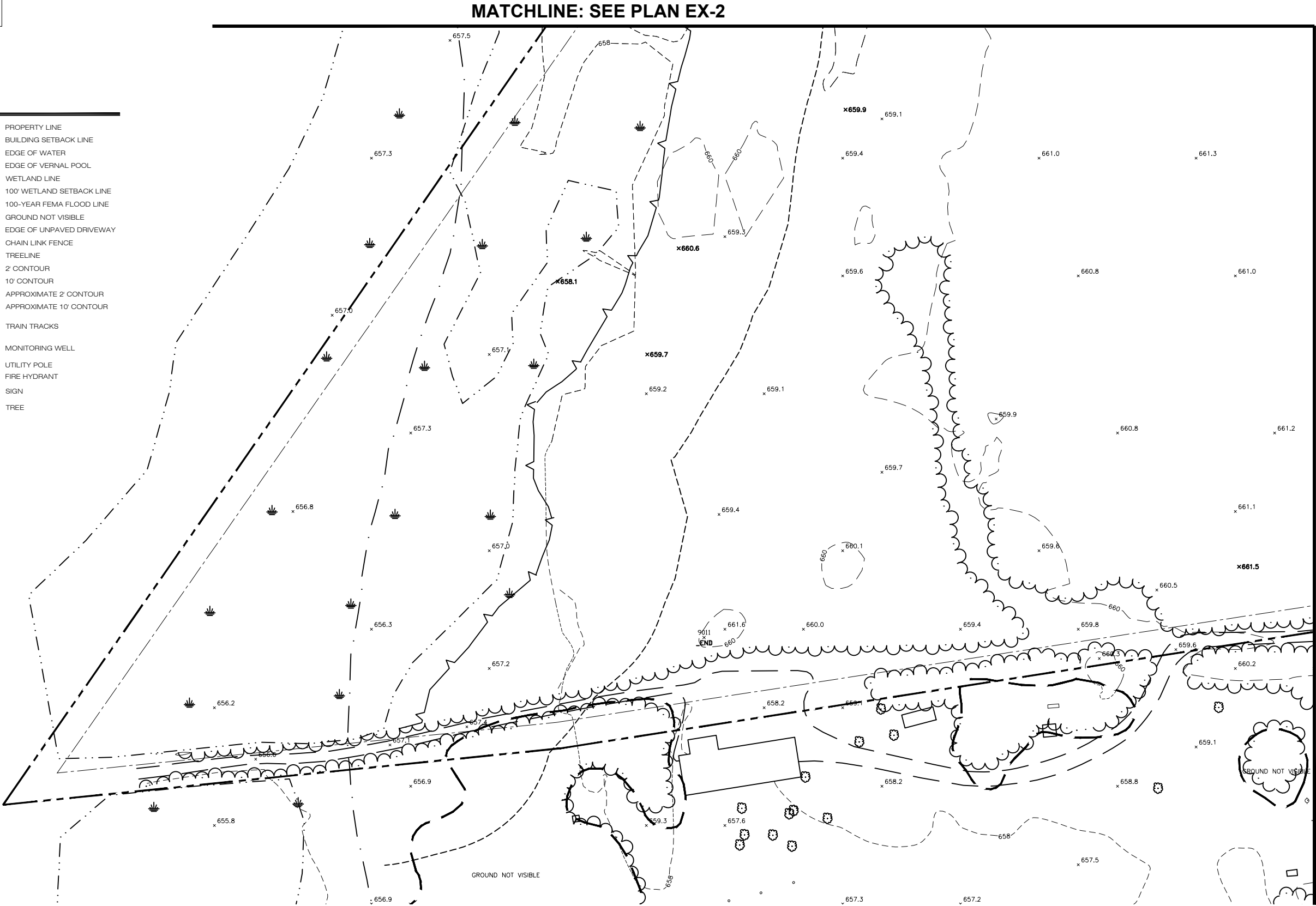




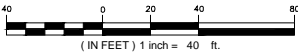
KEY PLAN

LEGEND:

- PROPERTY LINE
- BUILDING SETBACK LINE
- EDGE OF WATER
- EDGE OF VERNAL POOL
- WETLAND LINE
- 100' WETLAND SETBACK LINE
- 100-YEAR FEMA FLOOD LINE
- GROUND NOT VISIBLE
- EDGE OF UNPAVED DRIVEWAY
- CHAIN LINK FENCE
- TREELINE
- 2' CONTOUR
- 10' CONTOUR
- APPROXIMATE 2' CONTOUR
- APPROXIMATE 10' CONTOUR
- TRAIN TRACKS
- MONITORING WELL
- UTILITY POLE
- FIRE HYDRANT
- SIGN
- TREE



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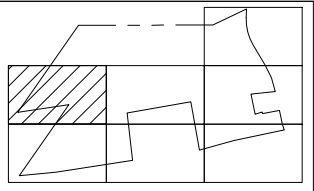
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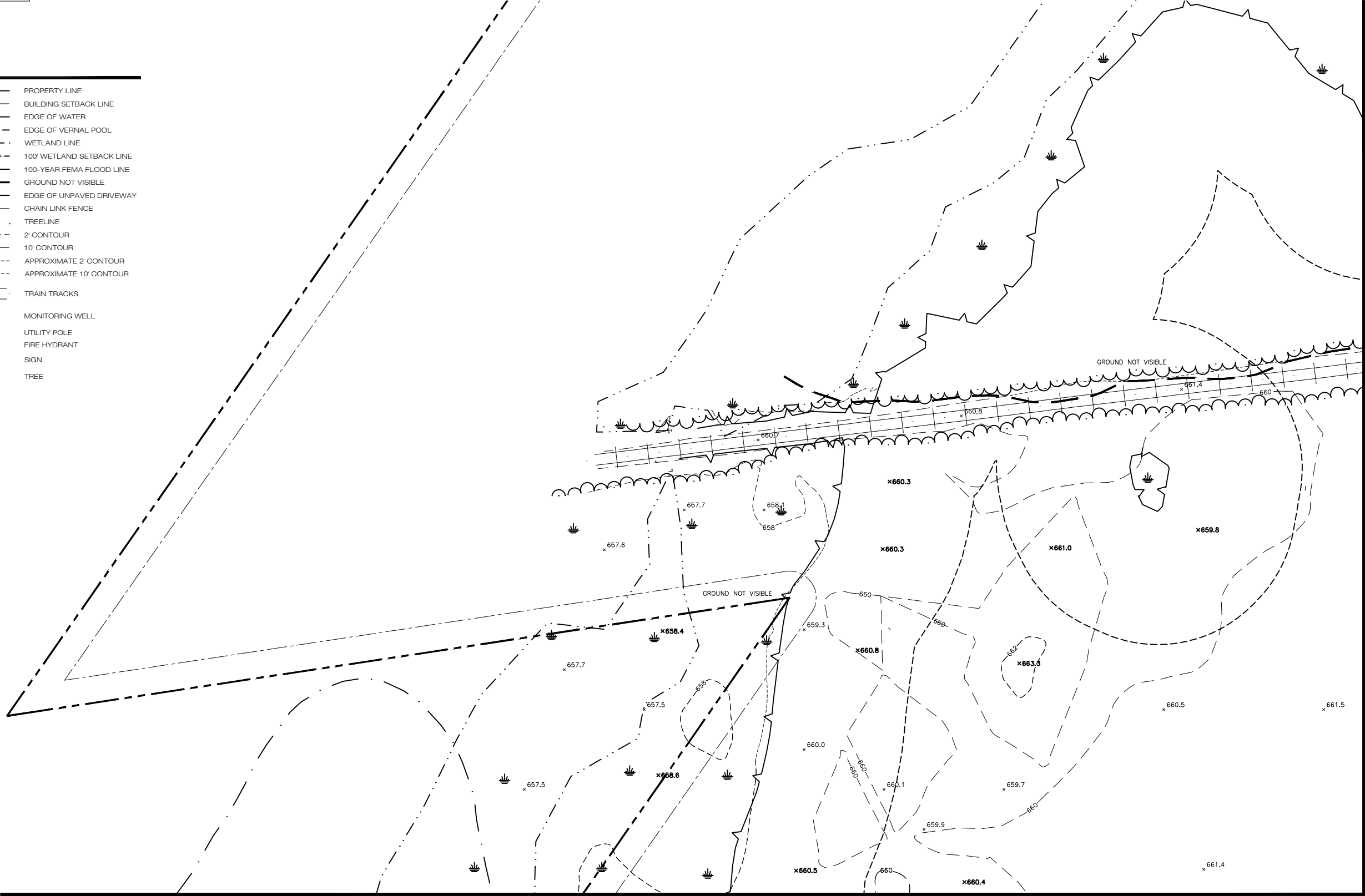
EX-1



KEY PLAN

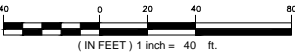
LEGEND:

---	PROPERTY LINE
- - -	BUILDING SETBACK LINE
---	EDGE OF WATER
- . - . -	EDGE OF VERNAL POOL
- - -	WETLAND LINE
- - -	100' WETLAND SETBACK LINE
- - -	100-YEAR FEMA FLOOD LINE
- - -	GROUND NOT VISIBLE
- - -	EDGE OF UNPAVED DRIVEWAY
- x - x -	CHAIN LINK FENCE
- - -	TREELINE
- - -	2' CONTOUR
- - -	10' CONTOUR
- - -	APPROXIMATE 2' CONTOUR
- - -	APPROXIMATE 10' CONTOUR
- - -	TRAIN TRACKS
⊙	MONITORING WELL
⊙	UTILITY POLE
⊙	FIRE HYDRANT
⊙	SIGN
⊙	TREE



MATCHLINE: SEE PLAN EX-1

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MATCHLINE: SEE PLAN EX-4

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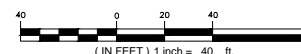
EXISTING CONDITIONS
PLAN

SHEET NUMBER:

















EX-2



MATCHLINE: SEE PLAN EX-1



LEGEND:

	PROPERTY LINE
	BUILDING SETBACK LINE
	EDGE OF WATER
	EDGE OF VERNAL POOL
	WETLAND LINE
	100' WETLAND SETBACK LINE
	100-YEAR FEMA FLOOD LINE
	GROUND NOT VISIBLE
	EDGE OF UNPAVED DRIVEWAY
	CHAIN LINK FENCE
	TREELINE
	2' CONTOUR
	10' CONTOUR
	APPROXIMATE 2' CONTOUR
	APPROXIMATE 10' CONTOUR
	TRAIN TRACKS

MONITORING WELL
UTILITY POLE
FIRE HYDRANT
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MATCHLINE: SEE PLAN EX-5

DESIGN PROFESSIONALS OF RECORD	
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COMP: ALL-POINTS TECHNOLOGY
CORPORATION
ADD: 3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419

OWNER: BECTON, DICKINSON &
COMPANY
ADDRESS: 1 BECTON DRIVE
FRANKLIN LAKES, NJ 074
(201) 847-6800

SITE 7 GRACE WAY
ADDRESS: NORTH CANAAN, CT 06018

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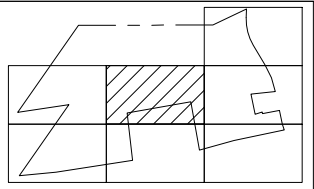
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EXISTING CONDITIONS PLAN

SHEET NUMBER:

EX-3



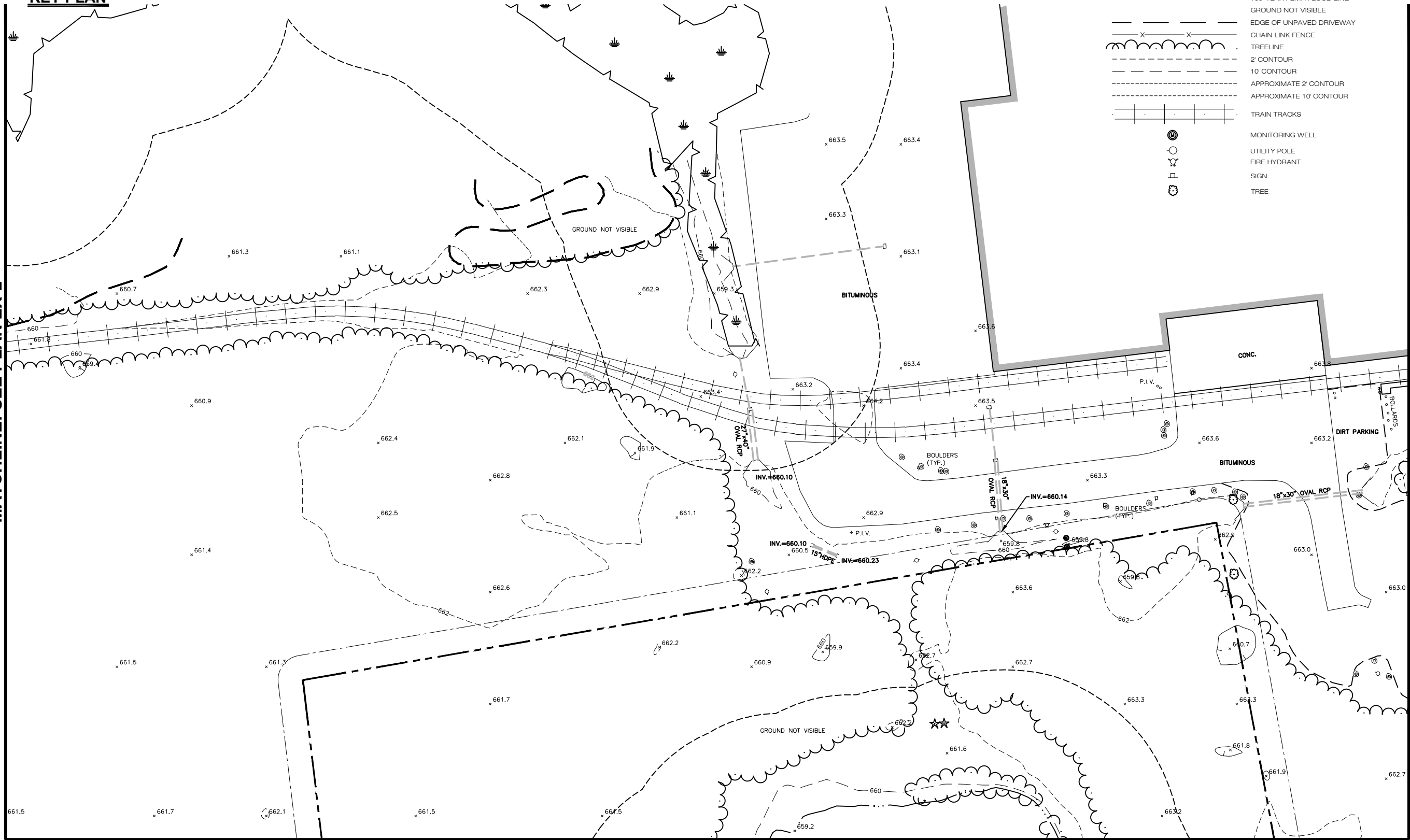
KEY PLAN

LEGEND:

- PROPERTY LINE
- BUILDING SETBACK LINE
- EDGE OF WATER
- EDGE OF VERNAL POOL
- WETLAND LINE
- 100' WETLAND SETBACK LINE
- 100-YEAR FEMA FLOOD LINE
- GROUND NOT VISIBLE
- EDGE OF UNPAVED DRIVEWAY
- CHAIN LINK FENCE
- TREELINE
- 2' CONTOUR
- 10' CONTOUR
- APPROXIMATE 2' CONTOUR
- APPROXIMATE 10' CONTOUR
- TRAIN TRACKS
- MONITORING WELL
- UTILITY POLE
- FIRE HYDRANT
- SIGN
- TREE



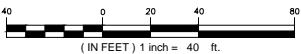
MATCHLINE: SEE PLAN EX-2



MATCHLINE: SEE PLAN EX-6

MATCHLINE: SEE PLAN EX-3

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OWNER: BECTON, DICKINSON & COMPANY
ADDRESS: 1 BECTON DRIVE
FRANKLIN LAKES, NJ 07417
(201) 847-6800

SITE ADDRESS: 7 GRACE WAY
NORTH CANAAN, CT 06018

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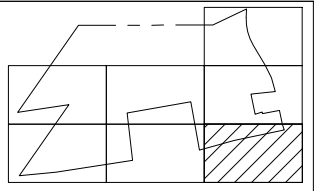
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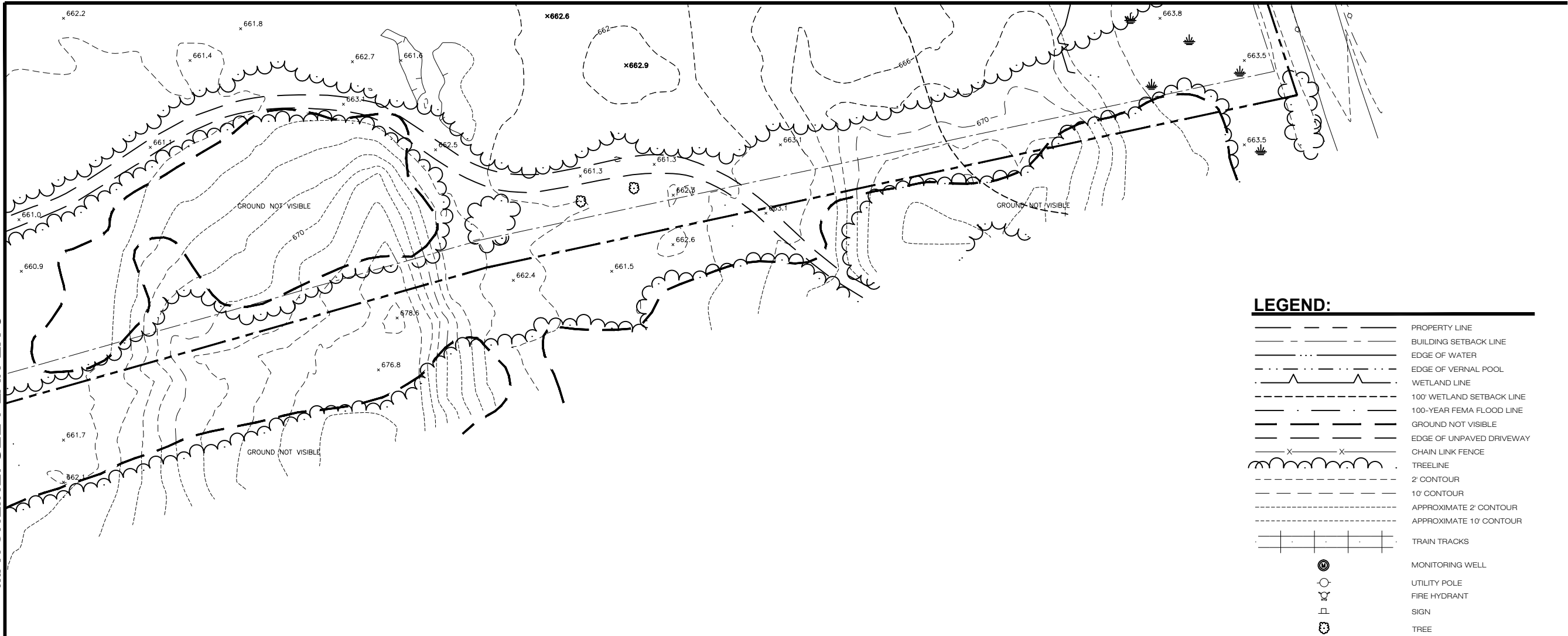
EX-4



KEY PLAN

MATCHLINE: SEE PLAN EX-6

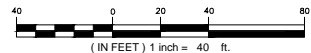
MATCHLINE: SEE PLAN EX-3



LEGEND:

- PROPERTY LINE
- BUILDING SETBACK LINE
- EDGE OF WATER
- EDGE OF VERNAL POOL
- WETLAND LINE
- 100' WETLAND SETBACK LINE
- 100-YEAR FEMA FLOOD LINE
- GROUND NOT VISIBLE
- EDGE OF UNPAVED DRIVEWAY
- CHAIN LINK FENCE
- TREELINE
- 2' CONTOUR
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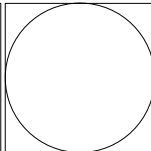
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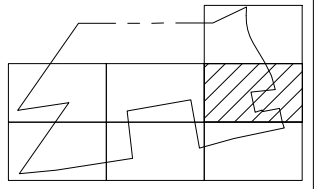
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EXISTING CONDITIONS
PLAN

SHEET NUMBER:

EX-5





KEY PLAN

MATCHLINE: SEE PLAN EX-7

LEGEND:

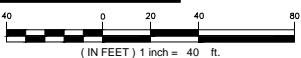
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MATCHLINE: SEE PLAN EX-4



MATCHLINE: SEE PLAN EX-5

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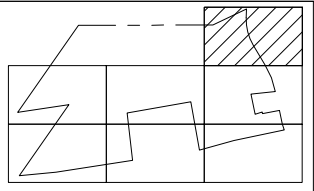
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SHEET TITLE:
EXISTING CONDITIONS
PLAN

SHEET NUMBER:
EX-6



KEY PLAN

LEGEND:

- PROPERTY LINE
- BUILDING SETBACK LINE
- EDGE OF WATER
- EDGE OF VERNAL POOL
- WETLAND LINE
- 100' WETLAND SETBACK LINE
- 100-YEAR FEMA FLOOD LINE
- GROUND NOT VISIBLE
- EDGE OF UNPAVED DRIVEWAY
- CHAIN LINK FENCE
- TREELINE
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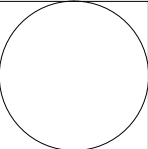
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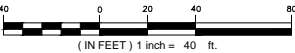
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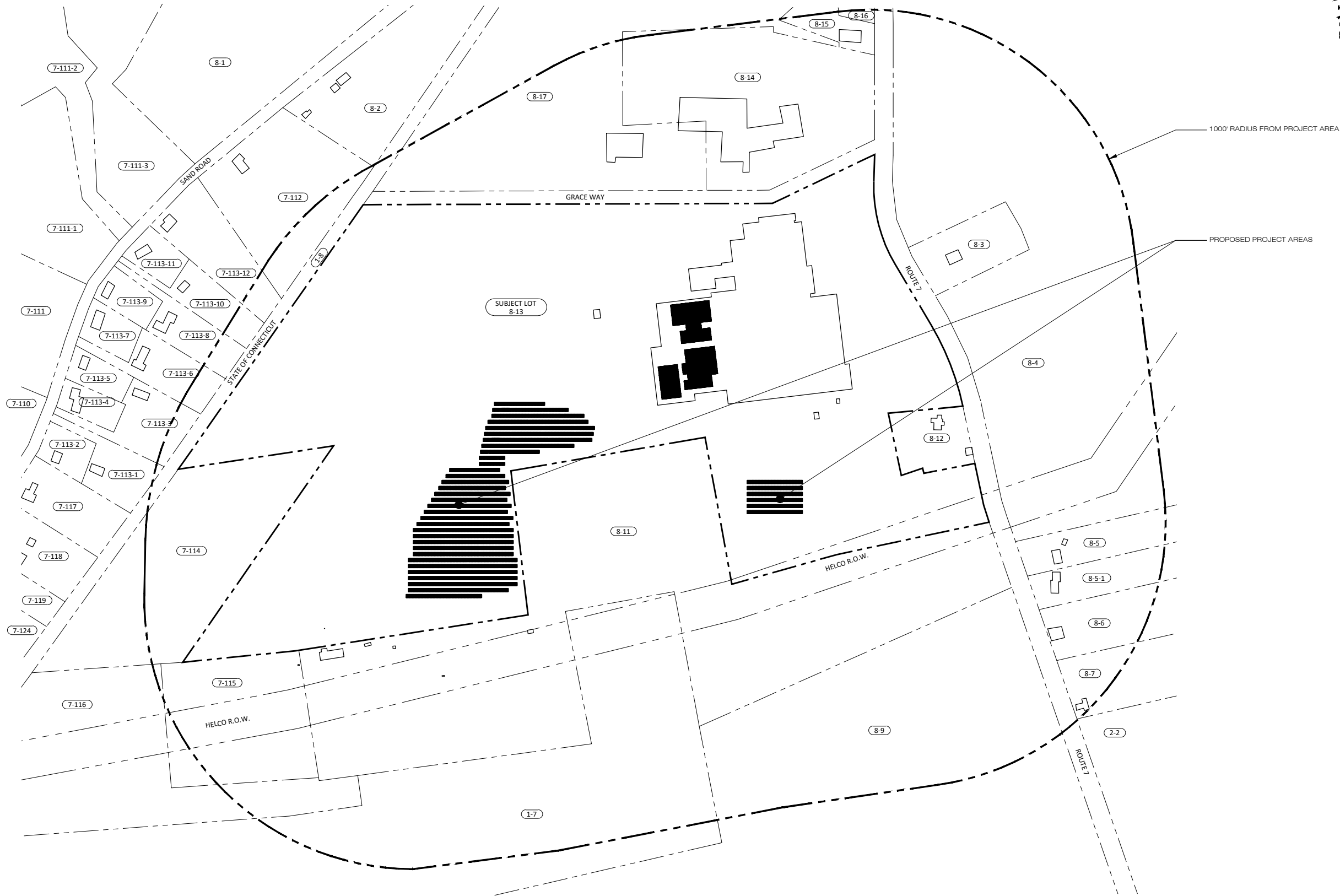
EX-7



MATCHLINE: SEE PLAN EX-6

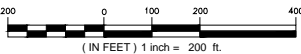
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1 1000' RADIUS MAP
R-1 SCALE: 1" = 200'

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KILLINGWORTH, CT 06419 FAX: (860)-663-0935
WWW.ALLPOINTSTECH.COM

CONSTRUCTION DOCUMENTS

NO	DATE	REVISION
0	02/24/16	FOR REVIEW: EEL
1	04/22/16	FOR REVIEW: BJP
2	06/10/16	CLIENT COMMENTS: BJP
3		
4		
5		
6		

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION
ADD: 3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419

OWNER: BECTON, DICKINSON & COMPANY
ADDRESS: 1 BECTON DRIVE
FRANKLIN LAKES, NJ 07417
(201) 847-6800

SITE 7 GRACE WAY
ADDRESS: NORTH CANAAN, CT 06018

APT FILING NUMBER: CT-478-120

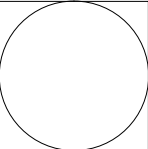
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CHECKED BY: EEL

SHEET TITLE:

RADIUS MAP

SHEET NUMBER:

R-1



CONSTRUCTION DOCUMENTS		
NO	DATE	REVISION
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2	06/10/16	CLIENT COMMENTS: BJP
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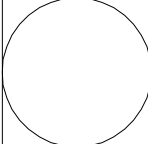
DESIGN PROFESSIONALS OF RECORD	
PROF: SCOTT M. CHASSE P.E. COMP: ALL-POINTS TECHNOLOGY CORPORATION ADD: 3 SADDLEBROOK DRIVE KILLINGWORTH, CT 06419	
OWNER: BECTON, DICKINSON & COMPANY ADDRESS: 1 BECTON DRIVE FRANKLIN LAKES, NJ 07417 (201) 847-6800	
SITE 7 GRACE WAY ADDRESS: NORTH CANAAN, CT 06018	
APT FILING NUMBER: CT-478-120	
	DRAWN BY: CSH
DATE: 02/24/16	CHECKED BY: EEL

SHEET TITLE:

ABUTTER PROPERTY OWNERS' LIST

SHEET NUMBER:

R-2



MAP	LOT	PROPERTY ADDRESS	TOWN	OWNER NAME	MAILING ADDRESS
8	17	14 Grace Way	North Canaan	Two Nickles LLC	c/o Suzanne Mazzarelli, 52 Bunce Rd., Ashley Falls, MD 01222
8	14	4 Grace Way	North Canaan	Lopol Realty Corp.	c/o Hutzler Mfg. Co., Inc., PO Box 969, Canaan, CT 06018-0969
8	3	125 S. Canaan Road	North Canaan	Intravaia, Natale & Susan	163 Woodland Dr., E. Islip, NY 11730
8	4	Rte 75	North Canaan	The Geer Corporation	99 S. Canaan Rd., Canaan, CT 06018
8	12	138 S. Canaan Road	North Canaan	Gailes, Thomas J. Jr. & Wendy M. S.	PO Box 224, Canaan, CT 06018
8	11	S. Canaan Road	North Canaan	Northwest Connecticut Rod & Gun Club	Box 163, Canaan, CT 06018
7	115	S. Canaan Road	North Canaan	Gasperini, Perry & Daniel J.	PO Box 224, E. Canaan, CT 06024-0216
7	114	Sand Road	North Canaan	Northwest Connecticut Rod & Gun Club	Box 163, Canaan, CT 06018
7	112	81 Sand Road	North Canaan	Koeppel, Gary J. & Brenda W.	81 Sand Rd., Canaan, CT 06018
7	113-12	12 Sand Road	North Canaan	Tyrrell, Nancy M. & Scanlon, Judith T.	PO Box 172, Canaan, CT 06018
7	113-10	10 Sand Road	North Canaan	Ernst, Donald D. & Carol A.	PO Box 753, Canaan, CT 06018
7	113-8	8 Sand Road	North Canaan	Johannesen, George H. & Amy M.	8 Sand Rd., Canaan, CT 06018
7	113-6	6 Sand Road	North Canaan	Eichmann, Wendy L. & Eichmann, Philip J. Jr.	PO Box 1152, Canaan, CT 06018
7	113-3	3 Sand Road	North Canaan	Kaufholz, Mary W.	3 Sand Rd., Canaan, CT 06018
7	113-1	1 Sand Road	North Canaan	Jacquier, Dawn M.	101-1 Sand Rd., Canaan, CT 06018
1*	8	Rail Line	North Canaan	State of Connecticut Department of Transportation	c/o Gareth D. Bye, Director of Legal Affairs, Office of the Secretary of the State, Office of Policy & Management, 450 Capital Avenue, Hartford, CT 06106-1379

* - THE STATE OF CONNECTICUT RAIL LINE CONTINUES ONTO MAPS 7 & 8.

1

R-2

ABUTTING PROPERTY OWNERS' LIST

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KILLINGWORTH, CT 06419 FAX: (860)-663-0935
WWW.ALLPOINTSTECH.COM

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SITE 7 GRACE WAY
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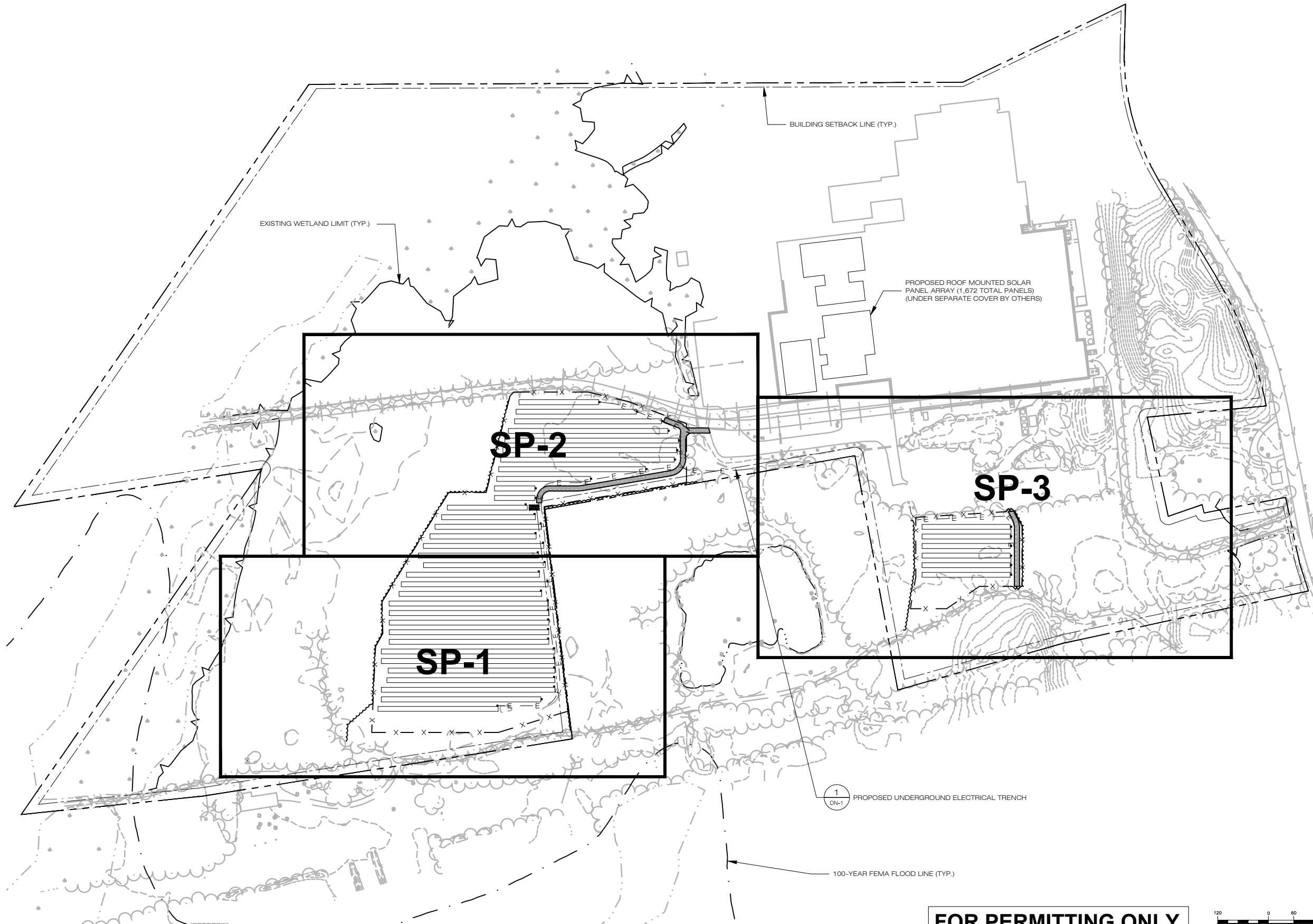
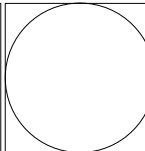
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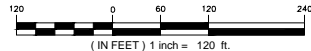
**OVERALL
SITE PLAN**

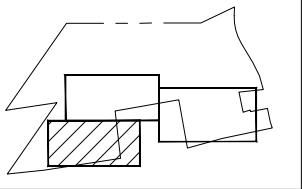
SHEET NUMBER:

SP-0



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KEY PLAN



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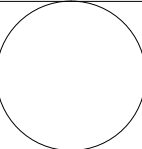
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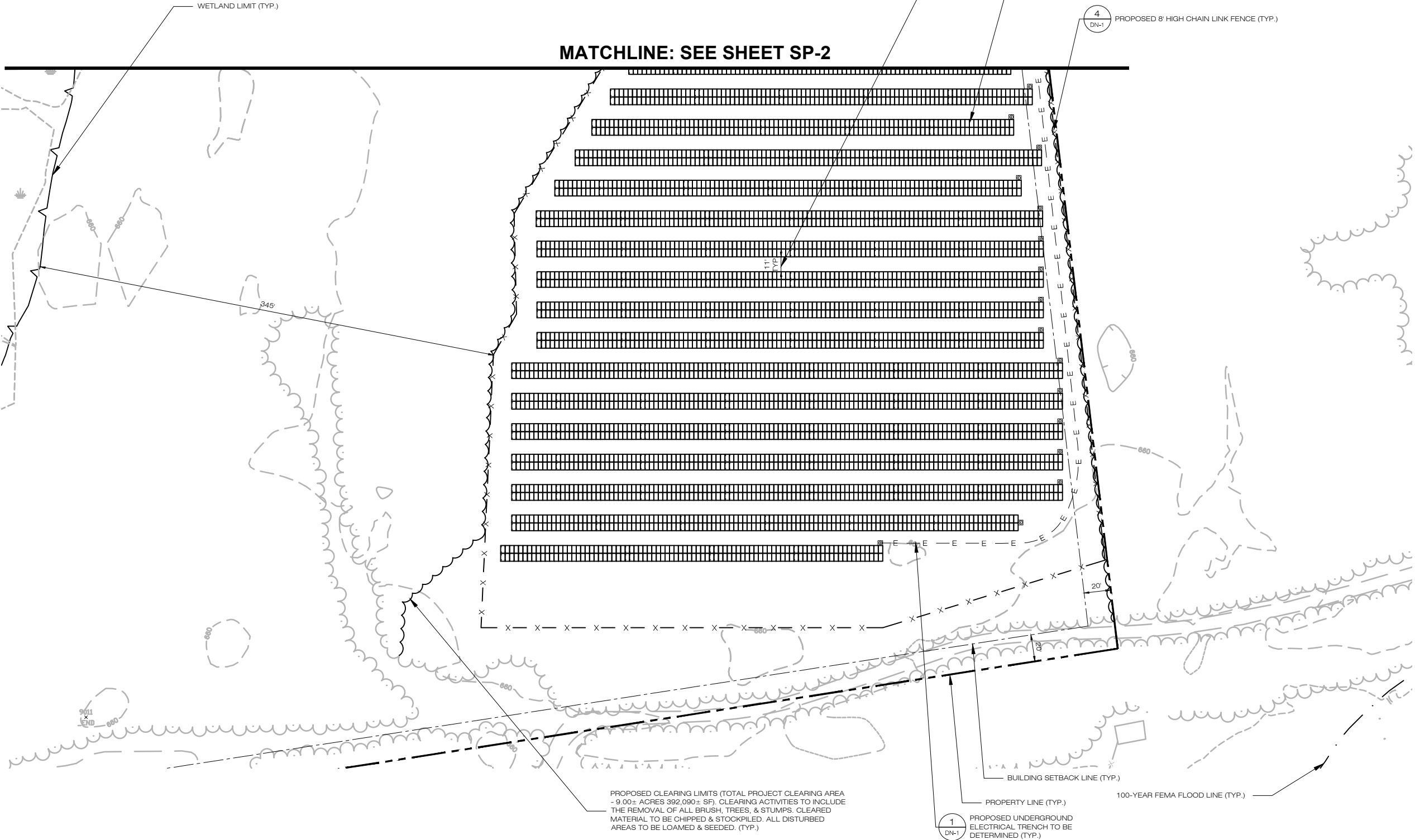
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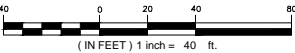
SP-1

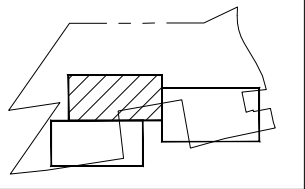


MATCHLINE: SEE SHEET SP-2



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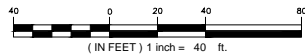
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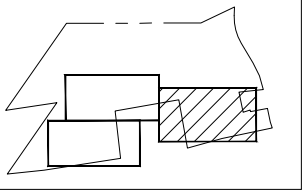
SITE PLAN

SHEET NUMBER:

SP-2

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KEY PLAN

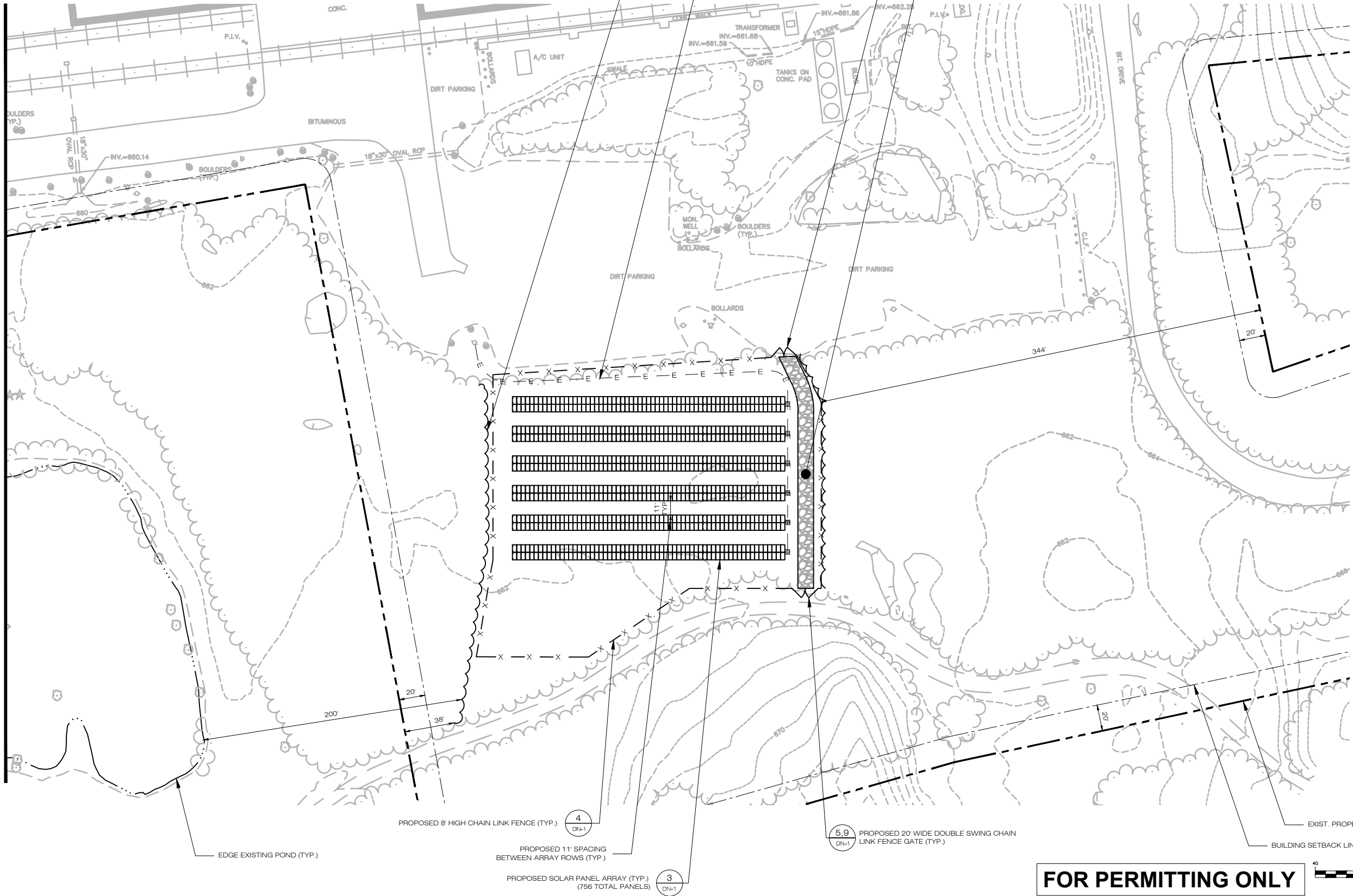
MATCHLINE: SEE PLAN SP-2

PROPOSED CLEARING LIMITS (TOTAL PROJECT CLEARING AREA - 9.00± ACRES 392,090± SF). CLEARING ACTIVITIES TO INCLUDE THE REMOVAL OF ALL BRUSH, TREES, & STUMPS. CLEARED MATERIAL TO BE CHIPPED & STOCKPILED. ALL DISTURBED AREAS TO BE LOAMED & SEEDED. (TYP.)

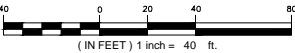
1 DN-1 PROPOSED UNDERGROUND ELECTRICAL TRENCH LOCATION TO BE DETERMINED.

5.9 DN-1 PROPOSED 20' WIDE DOUBLE SWING CHAIN LINK FENCE GATE (TYP.)

2 DN-1 PROPOSED 12' WIDE GRAVEL MAINTENANCE DRIVE (TYP.)



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(201) 847-6800

SITE ADDRESS: 7 GRACE WAY
NORTH CANAAN, CT 06018

APT FILING NUMBER: CT-478-120

DRAWN BY: CSH
DATE: 02/24/16 CHECKED BY: EEL

SHEET TITLE:

SITE PLAN

SHEET NUMBER:

SP-3



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SITE 7 GRACE WAY
ADDRESS: NORTH CANAAN, CT 06018

APT FILING NUMBER: CT-478-120

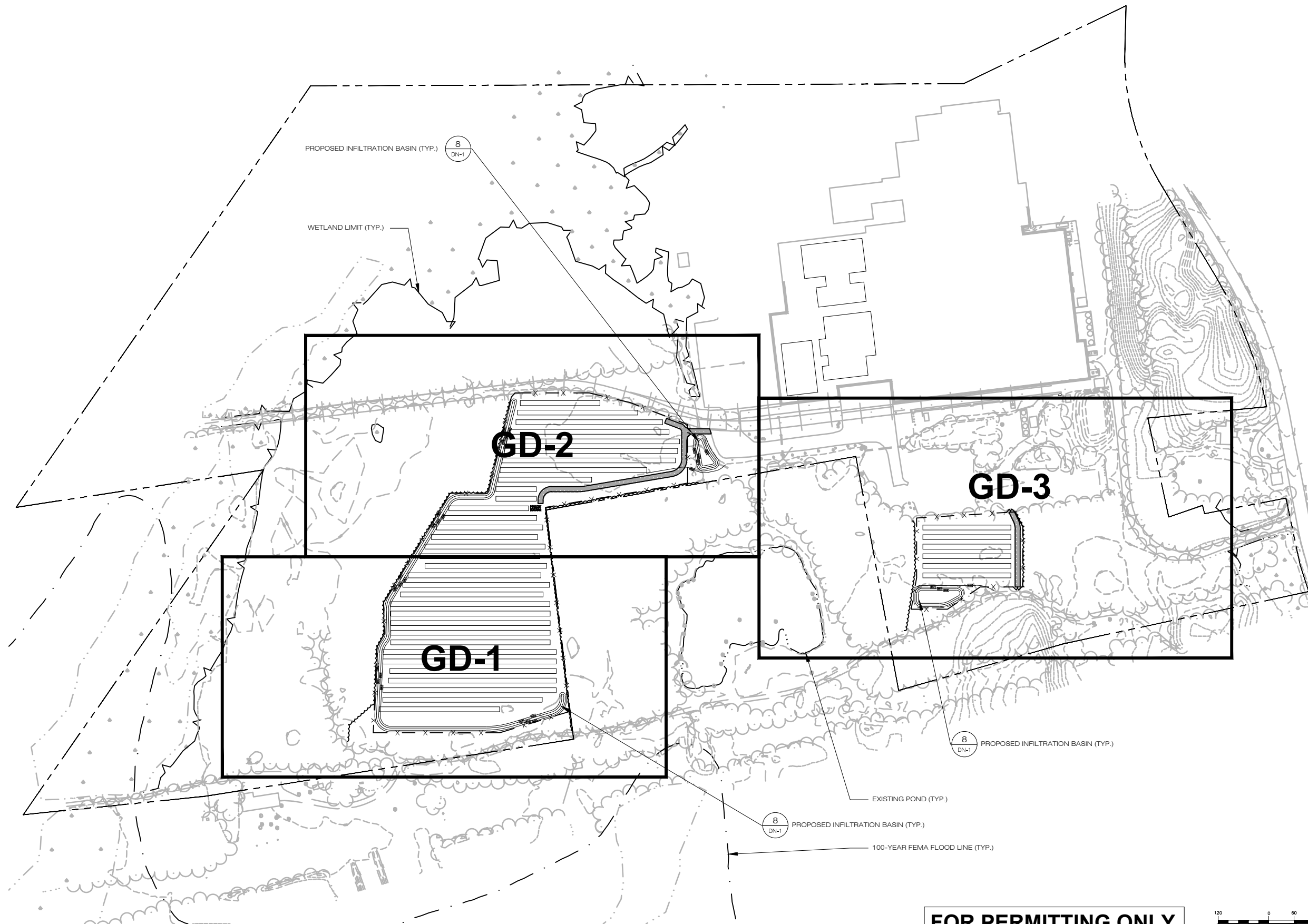
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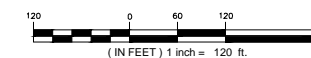
**OVERALL
GRADING & DRAINAGE
PLAN**

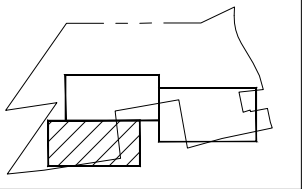
SHEET NUMBER:

GD-0



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KEY PLAN



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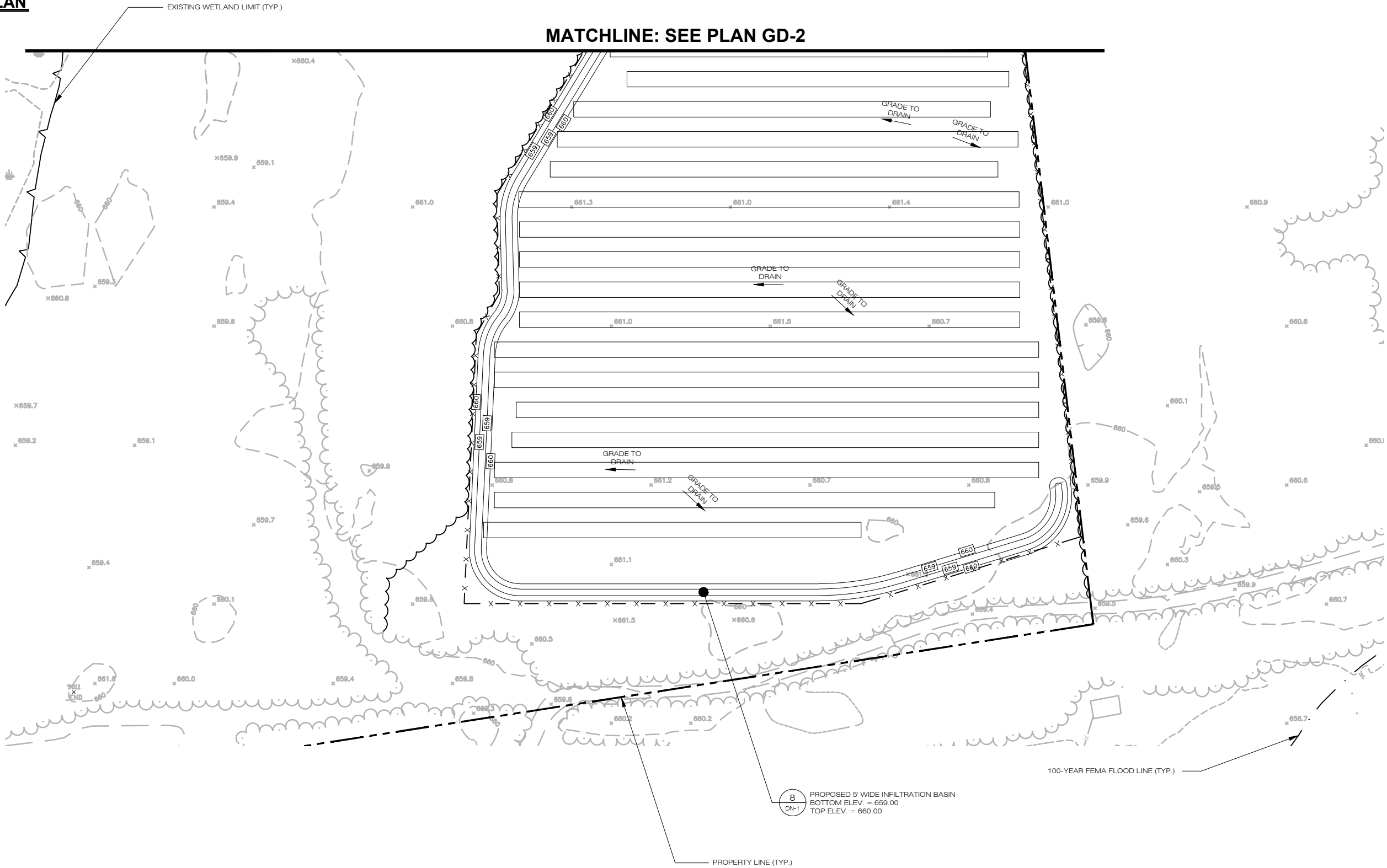
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GRADING & DRAINAGE
PLAN

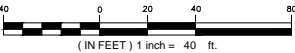
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GD-1

MATCHLINE: SEE PLAN GD-2



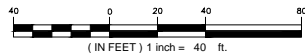
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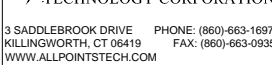




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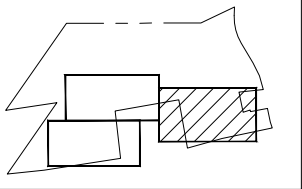
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SHEET TITLE:

GRADING & DRAINAGE PLAN

SHEET NUMBER:

GD-2



KEY PLAN

MATCHLINE: SEE PLAN GD-2



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SHEET TITLE:

GRADING & DRAINAGE PLAN

SHEET NUMBER:

GD-3



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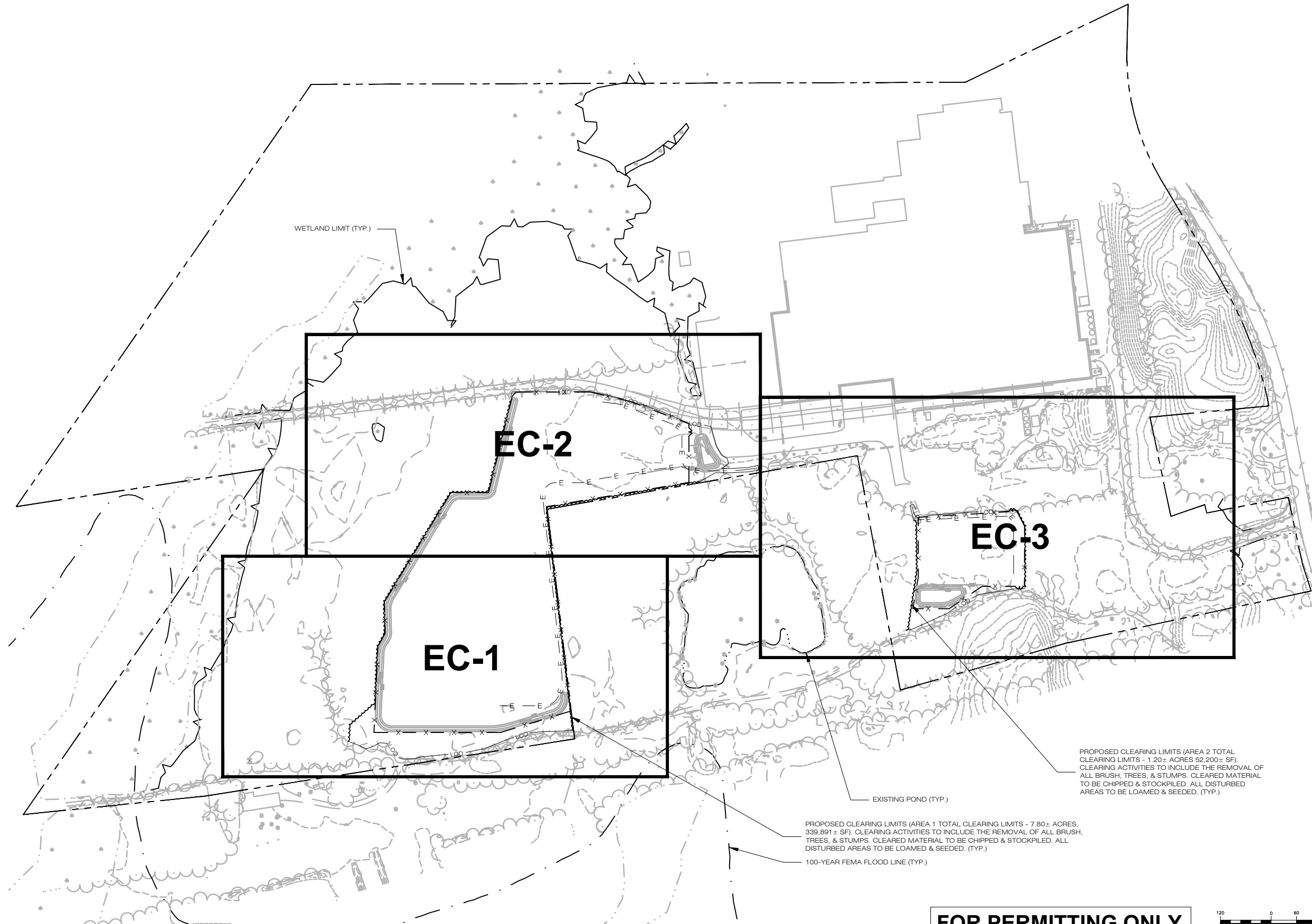
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DATE: 02/24/16	CHECKED BY: EEL

SHEET TITLE:

**OVERALL
SEDIMENTATION &
EROSION CONTROL
PLAN**

SHEET NUMBER:

EC-0



EC-1

EC-2

EC-3

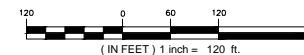
PROPOSED CLEARING LIMITS (AREA 1 TOTAL CLEARING LIMITS - 7.80± ACRES, 339,891± SF). CLEARING ACTIVITIES TO INCLUDE THE REMOVAL OF ALL BRUSH, TREES, & STUMPS. CLEARED MATERIAL TO BE CHIPPED & STOCKPILED. ALL DISTURBED AREAS TO BE LOAMED & SEEDDED. (TYP.)

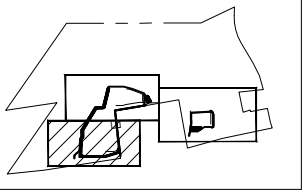
100-YEAR FEMA FLOOD LINE (TYP.)

EXISTING POND (TYP.)

PROPOSED CLEARING LIMITS (AREA 2 TOTAL CLEARING LIMITS - 1.20± ACRES 52,200± SF). CLEARING ACTIVITIES TO INCLUDE THE REMOVAL OF ALL BRUSH, TREES, & STUMPS. CLEARED MATERIAL TO BE CHIPPED & STOCKPILED. ALL DISTURBED AREAS TO BE LOAMED & SEEDDED. (TYP.)

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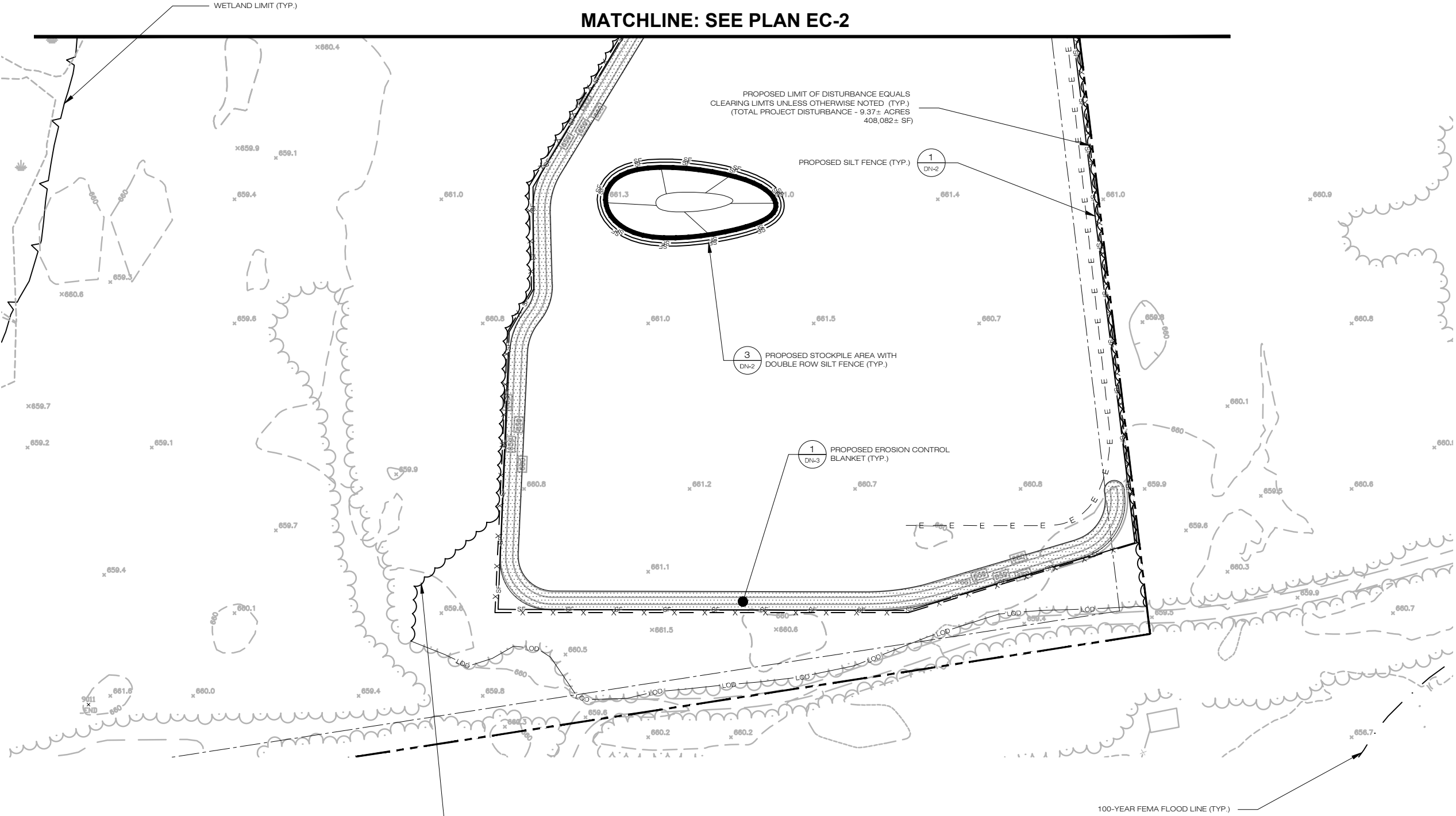
KEY PLAN

LEGEND:

- LOD PROPOSED LIMIT OF DISTURBANCE
- SF PROPOSED SILT FENCE
- PROPOSED CLEARING LIMITS/ LIMITS OF DISTURBANCE
- X - X - X - X PROPOSED CHAIN LINK FENCE
- PROPOSED CONSTRUCTION ENTRANCE
- PROPOSED MATERIAL STOCKPILE
- PROPOSED EROSION CONTROL BLANKET

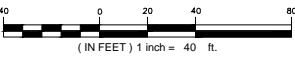


MATCHLINE: SEE PLAN EC-2



PROPOSED CLEARING LIMITS (AREA 1 TOTAL CLEARING LIMITS - 7.80± ACRES, 339,891± SF). CLEARING ACTIVITIES TO INCLUDE THE REMOVAL OF ALL BRUSH, TREES, & STUMPS. CLEARED MATERIAL TO BE CHIPPED & STOCKPILED. ALL DISTURBED AREAS TO BE LOAMED & SEEDED. (TYP.)

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3 SADDLEBROOK DRIVE PHONE: (860)-663-1697
KILLINGWORTH, CT 06419 FAX: (860)-663-0935
WWW.ALLPOINTSTECH.COM

CONSTRUCTION DOCUMENTS		
NO	DATE	REVISION
0	02/24/16	FOR REVIEW: EEL
1	04/22/16	FOR REVIEW: BJP
2	06/10/16	CLIENT COMMENTS: BJP
3		
4		
5		
6		

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION
ADD: 3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419

OWNER: BECTON, DICKINSON & COMPANY
ADDRESS: 1 BECTON DRIVE
FRANKLIN LAKES, NJ 07417
(201) 847-6800

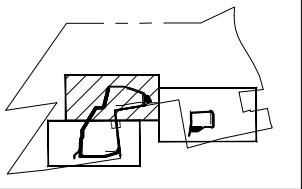
SITE 7 GRACE WAY
ADDRESS: NORTH CANAAN, CT 06018

APT FILING NUMBER: CT-478-120

DRAWN BY: CSH
DATE: 02/24/16 CHECKED BY: EEL

SHEET TITLE:
SEDIMENTATION & EROSION CONTROL PLAN

SHEET NUMBER:
EC-1



KEY PLAN



LEGEND:

- LOD PROPOSED LIMIT OF DISTURBANCE
- SF PROPOSED SILT FENCE
- PROPOSED CLEARING LIMITS/ LIMITS OF DISTURBANCE
- X X X X PROPOSED CHAIN LINK FENCE
- PROPOSED CONSTRUCTION ENTRANCE
- PROPOSED MATERIAL STOCKPILE
- PROPOSED EROSION CONTROL BLANKET



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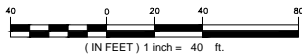
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6		

MATCHLINE: SEE PLAN EC-3

MATCHLINE: SEE PLAN EC-1

PROPOSED CLEARING LIMITS (AREA 1 TOTAL
CLEARING LIMITS - 7.80± ACRES, 339,891± SF).
CLEARING ACTIVITIES TO INCLUDE THE REMOVAL OF
ALL BRUSH, TREES, & STUMPS. CLEARED MATERIAL
TO BE CHIPPED & STOCKPILED. ALL DISTURBED
AREAS TO BE LOAMED & SEEDED. (TYP.)

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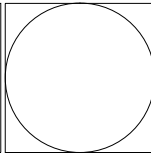


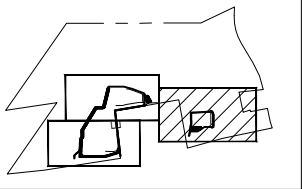
SHEET TITLE:

SEDIMENTATION &
EROSION CONTROL PLAN

SHEET NUMBER:

EC-2





KEY PLAN

MATCHLINE: SEE PLAN EC-2



LEGEND:

- LOD PROPOSED LIMIT OF DISTURBANCE
- SF PROPOSED SILT FENCE
- PROPOSED CLEARING LIMITS/ LIMITS OF DISTURBANCE
- X - X - X - X PROPOSED CHAIN LINK FENCE
- PROPOSED CONSTRUCTION ENTRANCE
- PROPOSED MATERIAL STOCKPILE
- PROPOSED EROSION CONTROL BLANKET



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DESIGN PROFESSIONALS OF RECORD

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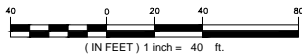
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SEDIMENTATION &
EROSION CONTROL PLAN

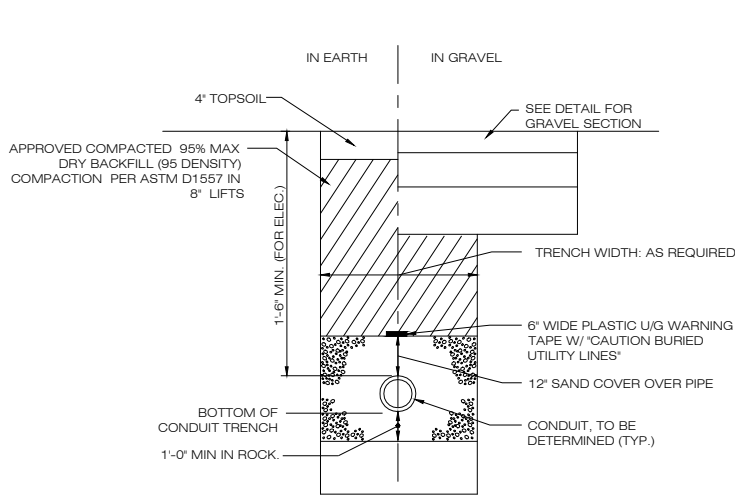
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EC-3

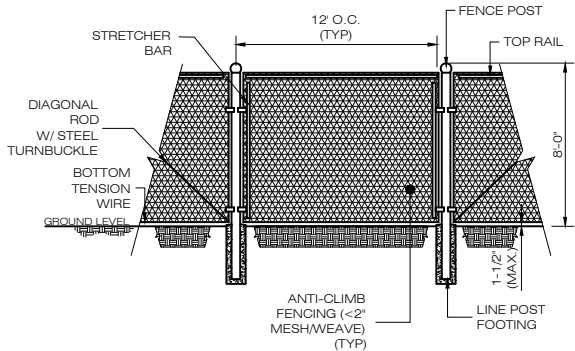
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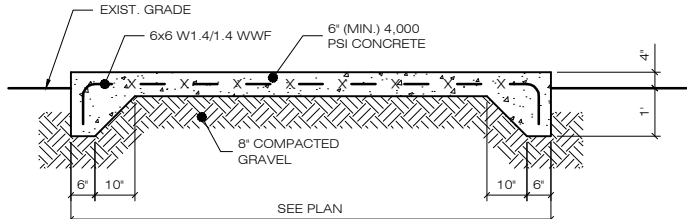
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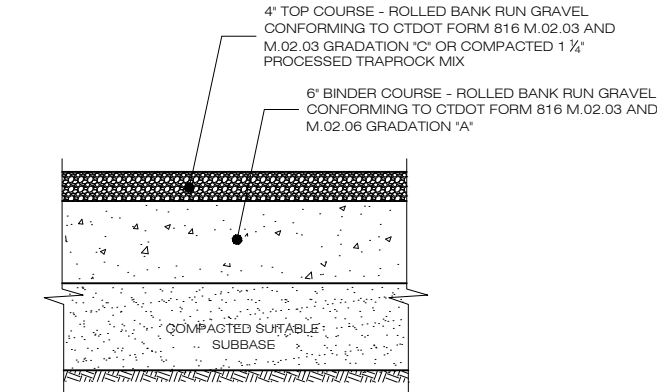
1 ELECTRICAL TRENCH DETAIL
SCALE : N.T.S.



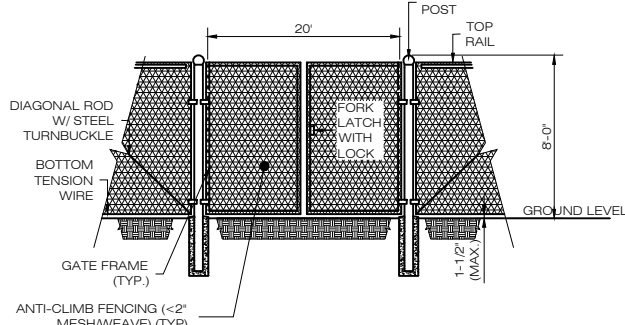
4 CHAIN-LINK FENCING DETAIL
SCALE : NTS



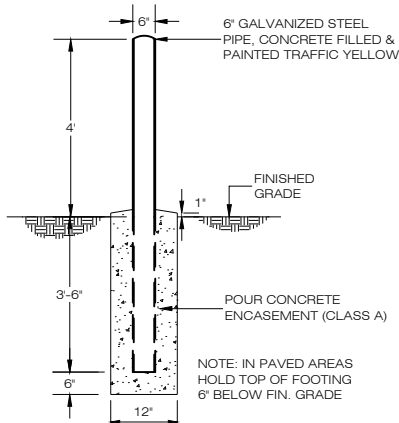
6 CONCRETE EQUIPMENT PAD
SCALE : 1/2" = 1'-0"



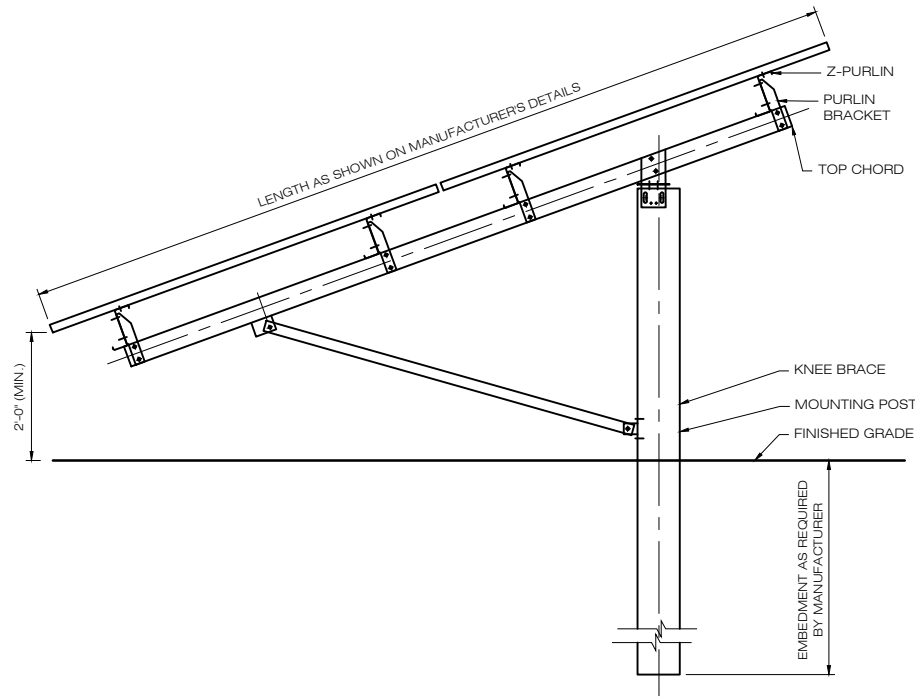
2 GRAVEL ACCESS DRIVE SECTION
SCALE : NTS



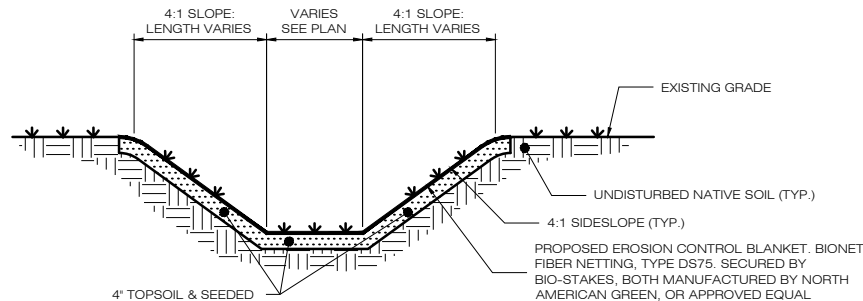
5 FENCE & GATE DETAIL
SCALE : N.T.S.



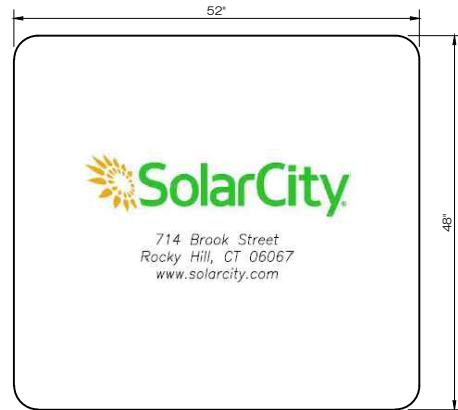
7 BOLLARD DETAIL
SCALE : NTS



3 TYPICAL POST MOUNTED RACKING SYSTEM
SCALE : NTS



8 GRASS LINED INFILTRATION BASIN
SCALE : NTS



9 IDENTIFICATION SIGNAGE
SCALE : NTS

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SHEET TITLE:

DETAIL SHEET

SHEET NUMBER:

DN-1

EROSION CONTROL NOTES

EROSION AND SEDIMENT CONTROL PLAN NOTES

- THE CONTRACTOR SHALL CONSTRUCT ALL SEDIMENT AND EROSION CONTROLS IN ACCORDANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST EDITION, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, AND AS DIRECTED BY THE TOWN OF NORTH CANAAN. THE CONTRACTOR SHALL KEEP A COPY OF THE CURRENT GUIDELINES ON-SITE FOR REFERENCE DURING CONSTRUCTION. ALL SEDIMENTATION AND EROSION CONTROL MEASURES, INCLUDING THE CONSTRUCTION OF TEMPORARY SEDIMENTATION TRAPS/BASINS, TEMPORARY DIVERSION SWALES AND ANTI-TRACKING PADS, SHALL BE INSTALLED PRIOR TO THE START OF CLEARING AND GRUBBING AND DEMOLITION OPERATIONS.
- THESE DRAWINGS ARE ONLY INTENDED TO DESCRIBE THE SEDIMENT AND EROSION CONTROL MEASURES FOR THIS SITE. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE EROSION & SEDIMENT CONTROL PLAN ARE SHOWN IN A GENERAL SIZE AND LOCATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL EROSION CONTROL MEASURES ARE CONFIGURED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION OF SOILS AND PREVENT THE TRANSPORT OF SEDIMENTS AND OTHER POLLUTANTS TO STORM DRAINAGE SYSTEMS AND/OR WATERCOURSES. ACTUAL SITE CONDITIONS OR SEASONAL AND CLIMATIC CONDITIONS MAY WARRANT ADDITIONAL CONTROLS OR CONFIGURATIONS WHEN DIRECTED BY THE ENGINEER. SEE SEDIMENT AND EROSION CONTROL DETAILS AND SUGGESTED CONSTRUCTION SEQUENCE FOR MORE INFORMATION. REFER TO SITE PLAN FOR GENERAL INFORMATION AND OTHER CONTRACT PLANS FOR APPROPRIATE INFORMATION.
- THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE SEDIMENT AND EROSION CONTROL PLAN. THIS RESPONSIBILITY INCLUDES THE PROPER INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED WITH CONSTRUCTION ON THE SITE OF THE REQUIREMENTS AND OBJECTIVES OF THIS PLAN, INFORMING THE GOVERNING AUTHORITY OR INLAND WETLANDS AGENCY OF ANY TRANSFER OF THIS RESPONSIBILITY, AND FOR CONVEYING A COPY OF THE SEDIMENT & EROSION CONTROL PLAN IF THE TITLE TO THE LAND IS TRANSFERRED. COMPLY WITH REQUIREMENTS OF CGS SECTION 22A, 430B FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES AND WITH DEEP RECORD KEEPING AND INSPECTION REQUIREMENTS.
- A BOND MAY BE REQUIRED TO BE POSTED WITH THE GOVERNING AUTHORITY FOR THE EROSION CONTROL INSTALLATION AND MAINTENANCE.
- THE CONTRACTOR SHALL APPLY THE MINIMUM EROSION & SEDIMENT CONTROL MEASURES SHOWN ON THE PLAN IN CONJUNCTION WITH CONSTRUCTION SEQUENCING, SUCH THAT ALL ACTIVE WORK ZONES ARE PROTECTED. ADDITIONAL AND/OR ALTERNATIVE SEDIMENT AND EROSION CONTROL MEASURES MAY BE INSTALLED DURING THE CONSTRUCTION PERIOD IF FOUND NECESSARY BY THE CONTRACTOR, OWNER, SITE ENGINEER, MUNICIPAL OFFICIALS, OR ANY GOVERNING AGENCY. THE CONTRACTOR SHALL CONTACT THE OWNER AND APPROPRIATE GOVERNING AGENCIES FOR APPROVAL IF ALTERNATIVE CONTROLS OTHER THAN THOSE SHOWN ON THE PLANS ARE PROPOSED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL TAKE EXTREME CARE DURING CONSTRUCTION SO AS NOT TO DISTURB UNPROTECTED WETLAND AREAS OR SEDIMENTATION AND EROSION CONTROL MEASURES. THE CONTRACTOR SHALL INSPECT ALL SEDIMENT AND EROSION CONTROLS WEEKLY AND WITHIN 24 HOURS OF A STORM WITH A RAINFALL AMOUNT OF 0.2 INCHES OR GREATER TO VERIFY THAT THE CONTROLS ARE OPERATING PROPERLY AND MAKE REPAIRS WHERE NECESSARY.
- THE CONTRACTOR SHALL KEEP A SUPPLY OF EROSION CONTROL MATERIAL (HAY BALES, SILT FENCE, JUTE MESH, ETC.) ON-SITE FOR PERIODIC MAINTENANCE AND EMERGENCY REPAIRS.
- ALL FILL MATERIAL PLACED ADJACENT TO ANY WETLAND AREA SHALL BE GOOD QUALITY, WITH LESS THAN 5% FINES PASSING THROUGH A #200 SIEVE (BANK RUN), SHALL BE PLACED IN MAXIMUM ONE FOOT LIFTS, AND SHALL BE COMPACTED TO 95% MAX. DRY DENSITY MODIFIED PROCTOR OR AS SPECIFIED IN THE CONTRACT SPECIFICATIONS.
- PROTECT EXISTING TREES THAT ARE TO BE SAVED BY FENCING AT THE DRIP LINE, OR AS DETAILED, WITH SNOW FENCE, ORANGE SAFETY FENCE, OR EQUIVALENT FENCING. ANY LIMB TRIMMING SHOULD BE DONE AFTER CONSULTATION WITH AN ARBORIST AND BEFORE CONSTRUCTION BEGINS IN THAT AREA; FENCING SHALL BE MAINTAINED AND REPAIRED DURING CONSTRUCTION.
- ANTI-TRACKING PADS SHALL BE INSTALLED PRIOR TO ANY SITE EXCAVATION OR CONSTRUCTION ACTIVITY AND SHALL BE MAINTAINED THROUGHOUT THE DURATION OF ALL CONSTRUCTION. THE LOCATION OF THE TRACKING PADS MAY CHANGE AS VARIOUS PHASES OF CONSTRUCTION ARE COMPLETED.
- ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE LIMIT OF DISTURBANCE, WHICH SHALL BE MARKED WITH SILT FENCE, SAFETY FENCE, HAY BALES, RIBBONS, OR OTHER MEANS PRIOR TO CLEARING. CONSTRUCTION ACTIVITY SHALL REMAIN ON THE UPHILL SIDE OF THE SEDIMENT BARRIER UNLESS WORK IS SPECIFICALLY CALLED FOR ON THE DOWNHILL SIDE OF THE BARRIER. STAKED HAY BALES OR SILT FENCES SHALL ALSO BE INSTALLED AT THE DOWNHILL SIDES OF BUILDING EXCAVATIONS, DEWATERING PUMP DISCHARGES, AND MATERIAL STOCKPILES.
- INSTALL TEMPORARY DIVERSION DITCHES, PLUNGE POOLS, TEMPORARY SEDIMENT TRAPS/BASINS, AND DEWATERING PITS AS SHOWN AND AS NECESSARY DURING VARIOUS PHASES OF CONSTRUCTION TO CONTROL RUNOFF UNTIL UPHILL AREAS ARE STABILIZED. LOCATION OF TEMPORARY SEDIMENT TRAPS/BASINS WILL REQUIRE REVIEW AND APPROVAL BY THE ENGINEER AND GOVERNING OFFICIAL. DEWATERING SETTLING TRAPS SHALL BE USED IF GROUND WATER IS ENCOUNTERED. NO RUNOFF SHALL BE ALLOWED TO EXIT THE SITE PRIOR TO TREATMENT FOR SEDIMENT REMOVAL.
- AS GENERAL GRADING OPERATIONS PROGRESS, THE TEMPORARY DIVERSION DITCHES SHALL BE RAISED OR LOWERED AND RELOCATED, AS CUT AND FILL SLOPES DICTATE, TO DIVERT SURFACE RUNOFF TO THE SEDIMENT TRAPS/BASINS.
- TEMPORARY SEDIMENT TRAPS SHALL PROVIDE 134 CUBIC YARDS OF SEDIMENT STORAGE PER DISTURBED ACRE CONTRIBUTING TO THE TRAP/BASIN. PROVIDE TRAP/BASIN VOLUMES FOR ALL DISTURBANCE ON SITE.
- PERIODICALLY CHECK ACCUMULATED SEDIMENT LEVELS IN SEDIMENT TRAPS/BASINS DURING CONSTRUCTION AND CLEAN ACCUMULATED SILT WHEN NECESSARY OR WHEN ONE FOOT OF SEDIMENT HAS ACCUMULATED. CLEAN ACCUMULATED SEDIMENT FROM CATCH BASIN SUMPS AS NECESSARY. REMOVE ACCUMULATED SEDIMENT FROM BEHIND HAY BALES AND SILT FENCE. EXCAVATED MATERIAL FROM TEMPORARY SEDIMENT TRAPS/BASINS MUST BE STOCKPILED ON UPHILL SIDE OF SILT FENCE.
- TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR USE IN FINAL LANDSCAPING. ALL EARTH STOCKPILES SHALL HAVE HAY BALES OR SILT FENCE AROUND THE LIMIT OF PILE. PILES SHALL BE TEMPORARILY SEEDED IF PILE IS TO REMAIN IN PLACE AND UNDISTURBED FOR MORE THAN 30 DAYS.
- NO CUT OR FILL SLOPES SHALL EXCEED 2:1 EXCEPT WHERE STABILIZED BY ROCK FACED EMBANKMENTS OR EROSION CONTROL BLANKETS, JUTE MESH AND VEGETATION. ALL SLOPES SHALL BE SEEDED, AND THE ROAD SHOULDER AND BANKS WILL BE STABILIZED IMMEDIATELY UPON COMPLETION OF FINAL GRADING UNTIL TURF IS ESTABLISHED.
- DIRECT ALL DEWATERING PUMP DISCHARGE TO A SEDIMENT CONTROL DEVICE SUCH AS TEMPORARY SEDIMENT TRAPS OR GRASS FILTERS WITHIN THE APPROVED LIMIT OF DISTURBANCE. DISCHARGE TO STORM DRAINS OR SURFACE WATERS FROM SEDIMENT CONTROLS SHALL BE CLEAR AND APPROVED BY THE ENGINEER.
- BLOCK THE OPEN UPSTREAM ENDS OF DETENTION BASIN/SEDIMENT TRAP OUTLET CONTROL ORIFICES UNTIL SITE IS STABILIZED AND BLOCK END OF STORM DRAINS IN EXPOSED TRENCHES WITH BOARDS AND SANDBAGS AT THE END OF EACH WORKING DAY WHEN RAIN IS EXPECTED.
- THE CONTRACTOR SHALL MAINTAIN A CLEAN CONSTRUCTION SITE AND SHALL NOT ALLOW THE ACCUMULATION OF RUBBISH OR CONSTRUCTION DEBRIS ON THE SITE. PROPER SANITARY DEVICES SHALL BE MAINTAINED ON-SITE AT ALL TIMES. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID THE SPILLAGE OF FUEL OR OTHER POLLUTANTS ON THE CONSTRUCTION SITE AND SHALL ADHERE TO ALL APPLICABLE POLICIES AND REGULATIONS RELATED TO SPILL PREVENTION AND RESPONSE/CONTAINMENT.
- MINIMIZE LAND DISTURBANCES. SEED AND MULCH DISTURBED AREAS WITH TEMPORARY MIX AS SOON AS PRACTICABLE (2 WEEK MAXIMUM UNSTABILIZED PERIOD) USING PERENNIAL RYEGRASS AT 40 LBS PER ACRE. MULCH ALL CUT AND FILL SLOPES AND SWALES WITH LOOSE HAY AT A RATE OF 2 TONS PER ACRE. IF NECESSARY, REPLACE LOOSE HAY ON SLOPES WITH EROSION CONTROL BLANKETS OR JUTE CLOTH. MODERATELY GRADED AREAS, ISLANDS, AND TEMPORARY CONSTRUCTION STAGING AREAS MAY BE HYDROSEEDED WITH TACKIFIER.
- SWEEP AFFECTED PORTIONS OF OFF SITE ROADS ONE OR MORE TIMES A DAY (OR LESS FREQUENTLY IF TRACKING IS NOT A PROBLEM) DURING CONSTRUCTION. FOR DUST CONTROL, PERIODICALLY MOISTEN EXPOSED SOIL SURFACES WITH WATER ON UNPAVED TRAVELWAYS TO KEEP THE TRAVELWAYS DAMP. CALCIUM CHLORIDE MAY ALSO BE APPLIED TO ACCESS ROADS. DUMP TRUCK LOADS EXITING THE SITE SHALL BE COVERED.
- TURF ESTABLISHMENT SHALL BE PERFORMED OVER ALL DISTURBED SOIL, UNLESS THE AREA IS UNDER ACTIVE CONSTRUCTION, IT IS COVERED IN STONE OR SCHEDULED FOR PAVING WITHIN 30 DAYS. TEMPORARY SEEDING OR NON-LIVING SOIL PROTECTION OF ALL EXPOSED SOILS AND SLOPES SHALL BE INITIATED WITHIN THE FIRST 7 DAYS OF SUSPENDING WORK IN AREAS TO BE LEFT LONGER THAN 30 DAYS.
- TWO WEEKS BEFORE THE FALL SEEDING SEASON BEGINS (AUGUST 15 TO OCTOBER 15), THE CONTRACTOR SHALL SCHEDULE A MEETING WITH NORTH CANAAN STAFF TO DISCUSS STABILIZING THE SITE FOR WINTER MONTHS. MEASURES SUCH AS MULCHING AND/OR SEEDING MAY BE REQUIRED.
- MAINTAIN ALL PERMANENT AND TEMPORARY SEDIMENT CONTROL DEVICES IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. UPON COMPLETION OF WORK SWEEP PARKING LOTS, CLEAN THE STORM DRAINAGE SYSTEMS AND REMOVE ALL TEMPORARY SEDIMENT CONTROLS ONCE THE SITE IS FULLY STABILIZED AND APPROVAL HAS BEEN RECEIVED FROM TOWN OF NORTH CANAAN AND/OR ENGINEER.
- SEEDING MIXTURES:
 - NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR MOIST SITES SPREAD AT A RATE OF 35 LBS PER ACRE/VIRGINIA WILD RYE, (ELYMUS VIRGINICUS), CREEPING RED FESCUE, (FESTUCA RUBRA), LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM), BIG BLUESTEM, (ANDROPOGON GERARDII), FOX SEDGE, (CAREX VULPINOIDEA), SWITCH GRASS, (PANICUM VIRGATUM), ROUGH BENTGRASS, (AGROSTIS SCABRA), NEW ENGLAND ASTER, (ASTER NOVAE-ANGLIAE), BONESET, (EUPATORIUM PERFOLIATUM), GRASS LEAVED GOLDENROD, (EUTHAMIA GRAMINIFOLIA), GREEN BULRUSH, (SCIRPUS ATROVIRENS), BLUE VERVAIN, (VERBENA HASTATA), SOFT RUSH, (JUNCUS EFFUSUS), WOOL GRASS, (SCIRPUS CYPERINUS).
 - NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DRY SITES SPREAD AT A RATE OF 35 LBS PER ACRE. CREEPING RED FESCUE, (FESTUCA RUBRA), CANADA WILD RYE, (ELYMUS CANADENSIS), ANNUAL RYEGRASS, (LOLIUM MULTIFLORUM), PERENNIAL RYEGRASS, (LOLIUM PERENNE), BLUE GRAMA, (BOULELOUA GRACILIS), LITTLE BLUESTEM, (SCHIZACHYRIUM SCOPARIUM), INDIAN GRASS, (SORGHASTRUM NUTANS), ROUGH BENTGRASS, (AGROSTIS SCABRA), UPLAND BENTGRASS, (AGROSTIS PERENNANS).

SEDIMENT & EROSION CONTROL NARRATIVE

- THE PROJECT INCLUDES THE CLEARING OF APPROXIMATELY 9.00 ACRES OF EXISTING WOODLAND AREA FOR THE INSTALLATION OF A GROUND MOUNTED SOLAR PANEL FACILITY WITH ASSOCIATED EQUIPMENT. ALL CLEARED AREAS ARE TO BE SEEDED AND STABILIZED PRIOR TO THE INSTALLATION OF THE PROPOSED PANELS. ALL RUNOFF FROM THE CLEARED AREAS WILL BE COLLECTED WITHIN SHALLOW INFILTRATION BASINS WHICH WILL INFILTRATE THE RUNOFF INTO THE GROUND. WETLANDS ARE LOCATED TO THE WEST OF THE PROPOSED PROJECT AREA AND A SMALL POND IS LOCATED OFFSITE BETWEEN THE TWO SOLAR PANEL ARRAY SITES.
- THE PROPOSED PROJECT INVOLVES THE FOLLOWING CONSTRUCTION:
 - CONSTRUCTION OF 7,160 GROUND MOUNTED SOLAR PANELS AND ASSOCIATED EQUIPMENT.
 - CONSTRUCTION OF GRAVEL ACCESS DRIVES.
 - CONSTRUCTION OF SHALLOW INFILTRATION BASINS TO COLLECT STORMWATER RUNOFF.
 - CONSTRUCTION OF A CHAIN LINK FENCE SURROUNDING THE SOLAR PANEL FACILITY.
 - THE STABILIZATION OF PERVIOUS DISTURBED AREAS WITH PERMANENT GRASS AND LANDSCAPING TREATMENTS.
- FOR THIS PROJECT, THERE ARE APPROXIMATELY 9.37 ACRES OF THE SITE BEING DISTURBED AND THE IMPERVIOUS AREA OF THE SITE HAS BEEN INCREASED BY A TOTAL OF 0.201 ACRES.
- THE PROJECT SITE, AS MAPPED IN THE SOIL SURVEY OF LITCHFIELD COUNTY (SCS, 1966), CONTAINS TYPE A AND TYPE D SOILS. A GEOTECHNICAL ENGINEERING REPORT HAS NOT BEEN COMPLETED FOR THIS PROJECT.
- THE PROJECT AREA WAS FOUND TO CONTAIN A BROAD COMPLEX OF WETLANDS THAT INCLUDES THE NORTHERLY EXTENT OF A LARGE WETLAND SYSTEM LOCALLY KNOWN AS ROBBINS SWAMP. ROBBINS SWAMP SURROUNDS SWAMP BROOK WHICH DRAINS TO THE HOLLENBECK RIVER (THE ON-SITE PORTION OF THIS AREA IS IDENTIFIED AS WETLAND 1). ROBBINS SWAMP REPRESENTS A REGIONALLY IMPORTANT WETLAND SYSTEM WHICH SUPPORTS A NUMBER OF RARE WETLAND-DEPENDENT SPECIES. TWO OTHER WETLAND AREAS WERE IDENTIFIED DURING THE SURVEY (IDENTIFIED AS WETLANDS 2 AND 3). WETLAND 2 IS A SMALL ISOLATED FORESTED WETLAND POCKET LOCATED EAST OF WETLAND 1, JUST SOUTH OF AN EXISTING RAIL LINE ON THE SITE. WETLAND 3 IS LOCATED IN THE SOUTHEAST CORNER OF THE SITE AND CONSISTS OF TWO DEPRESSIONAL WETLAND POCKETS THAT GENERALLY DRAIN EAST AND SOUTH AND ARE CONFINED BY AN EXISTING PAVED ACCESS ROAD AND ROUTE 7.
- IT WILL BE IMPORTANT THAT THE EXISTING WETLAND RESOURCE AREAS BE PROTECTED DURING AND AFTER CONSTRUCTION FROM SEDIMENTATION AND POLLUTANTS TO THE EXTENT POSSIBLE. CUT AND FILL SLOPES WILL NEED TO BE STABILIZED BY VEGETATION, RIPRAP OR EROSION CONTROL GEOTEXTILES AS SOON AS POSSIBLE TO MINIMIZE SLOPE EROSION. ALL CUT AND FILL SLOPES 3:1 OR LESS WILL BE SEEDED, FERTILIZED AND MULCHED FOR TEMPORARY AND PERMANENT STABILIZATION. TOPSOIL AND EXCAVATED MATERIAL STOCKPILE AREAS MUST BE CONTAINED BY SILT FENCE AND HAY BALES AND STABILIZED BY VEGETATION IF LEFT UNDISTURBED FOR MORE THAN 30 DAYS. DEWATERING WASTEWATER FROM TRENCHING OPERATIONS SHALL BE ADDRESSED DURING CONSTRUCTION. ALL WATER FROM DEWATERING OPERATIONS SHALL BE DIRECTED TO DEWATERING PUMP SETTLING BASINS. CONSTRUCTION NEAR WETLANDS SHALL BE ISOLATED BY USE OF CONSTRUCTION FENCING OR A COFFERDAM AND THE TEMPORARY DISTURBED AREA SHALL BE KEPT TO A MINIMUM. WORK IN HIGH GROUNDWATER AREAS SHALL BE SCHEDULED, WHEN POSSIBLE, SO IT CAN BE COMPLETED IN A DRY PERIOD AND IN THE SHORTEST TIME POSSIBLE.
- IT IS ANTICIPATED THAT CONSTRUCTION WILL BE COMPLETED IN APPROXIMATELY 8 MONTHS.
- REFER TO THE CONSTRUCTION SEQUENCING AND EROSION AND SEDIMENTATION NOTES FOR INFORMATION REGARDING SEQUENCING OF MAJOR OPERATIONS IN THE ON-SITE CONSTRUCTION PHASES.
- STORMWATER MANAGEMENT DESIGN CRITERIA UTILIZES THE APPLICABLE SECTIONS OF THE 2004 CONNECTICUT STORMWATER QUALITY MANUAL TO THE EXTENT POSSIBLE AND PRACTICABLE FOR THIS PROJECT. ON-SITE EROSION AND SEDIMENTATION MEASURES ARE BASED UPON ENGINEERING PRACTICE, JUDGEMENT AND THE APPLICABLE SECTIONS OF THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
- DETAILS FOR THE TYPICAL STORMWATER MANAGEMENT AND EROSION AND SEDIMENTATION MEASURES ARE SHOWN ON PLAN SHEET DN-1 AND DN-2, OR PROVIDED AS SEPARATE SUPPORT DOCUMENTATION FOR REVIEW IN THIS PLAN.
- CONSERVATION PRACTICES TO BE USED DURING CONSTRUCTION AREA:
 - STAGED CONSTRUCTION;
 - MINIMIZE THE DISTURBED AREAS DURING CONSTRUCTION;
 - STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE WITH TEMPORARY OR PERMANENT MEASURES;
 - MINIMIZE IMPERVIOUS AREAS;
 - UTILIZE APPROPRIATE CONSTRUCTION EROSION AND SEDIMENTATION MEASURES.
- THE FOLLOWING SEPARATE DOCUMENTS ARE TO BE CONSIDERED A PART OF THE EROSION AND SEDIMENTATION PLAN:
 - STORMWATER MANAGEMENT REPORT FOR EXISTING AND PROPOSED PEAK FLOWS.
 - DESIGN CALCULATIONS FOR TEMPORARY SEDIMENT TRAPS DURING PHASED CONSTRUCTION.
 - DESIGN CALCULATIONS FOR STORMWATER QUALITY.

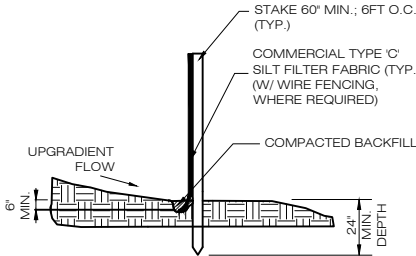
SUGGESTED CONSTRUCTION SEQUENCE

THE FOLLOWING SUGGESTED SEQUENCE OF CONSTRUCTION ACTIVITIES IS PROJECTED BASED UPON ENGINEERING JUDGEMENT AND BEST MANAGEMENT PRACTICES. THE CONTRACTOR MAY ELECT TO ALTER THE SEQUENCING TO BEST MEET THE CONSTRUCTION SCHEDULE, THE EXISTING SITE ACTIVITIES AND WEATHER CONDITIONS.

- CONTACT TOWN OF NORTH CANAAN AGENT TO SCHEDULE A PRE-CONSTRUCTION MEETING. PHYSICALLY FLAG THE LIMITS OF CLEARING IN THE FIELD AS NECESSARY TO FACILITATE THE PRE-CONSTRUCTION MEETING..
- CONDUCT A PRE-CONSTRUCTION MEETING TO DISCUSS THE PROPOSED WORK AND EROSION AND SEDIMENTATION CONTROL MEASURES. THE MEETING SHOULD BE ATTENDED BY THE OWNER, THE OWNER REPRESENTATIVE(S), THE GENERAL CONTRACTOR, DESIGNATED SUB-CONTRACTORS AND THE PERSON, OR PERSONS, RESPONSIBLE FOR THE IMPLEMENTATION, OPERATION, MONITORING AND MAINTENANCE OF THE EROSION AND SEDIMENTATION MEASURES. THE CONSTRUCTION PROCEDURES FOR THE ENTIRE PROJECT SHALL BE REVIEWED AT THIS MEETING.
- NOTIFY TOWN OF NORTH CANAAN AGENT AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF ANY DEMOLITION, CONSTRUCTION OR REGULATED ACTIVITY ON THIS PROJECT. NOTIFY CALL BEFORE YOU DIG AT 1-800-922-4455.
- REMOVE EXISTING IMPROVEMENTS AS NECESSARY AND PROVIDE MINIMAL CLEARING AND GRUBBING TO INSTALL THE REQUIRED CONSTRUCTION ENTRANCES.
- CLEAR AND GRUB AS REQUIRED, TO INSTALL THE PERIMETER EROSION AND SEDIMENTATION CONTROL MEASURES AND, IF APPLICABLE, TREE PROTECTION. ALL WETLAND AREAS SHALL BE PROTECTED BEFORE MAJOR CONSTRUCTION BEGINS.
- INSTALL INFILTRATION BASINS AS SHOWN ON THE GRADING AND DRAINAGE PLAN.
- PERFORM THE REMAINING CLEARING AND GRUBBING AS NECESSARY. REMOVE CUT WOOD AND STUMPS. CHIP BRUSH AND SLASH AND STOCKPILE FOR FUTURE USE OR REMOVE OFF-SITE. REMOVE AND DISPOSE OF DEMOLITION DEBRIS OFF-SITE.
- REMOVE AND STOCKPILE TOPSOIL TO ITS DESIGNATED AREA AS REQUIRED FOR CONSTRUCTION OF GRAVEL DRIVES, CONCRETE PADS AND INFILTRATION BASINS. PROVIDE EROSION AND SEDIMENTATION CONTROL MEASURES AROUND THE STOCKPILE. TEMPORARILY SEED THE STOCKPILE WHEN STOCKPILING IS COMPLETED OR IF IT WILL NOT BE DISTURBED FOR THIRTY (30) DAYS OR MORE.
- TEMPORARILY SEED DISTURBED AREAS NOT UNDER CONSTRUCTION FOR THIRTY (30) DAYS OR MORE.
- INSTALL ELECTRICAL CONDUIT.
- EXCAVATE AND ROUGH GRADE GRAVEL ACCESS DRIVES AND CONCRETE EQUIPMENT PADS.
- INSTALL FINAL GRAVEL COURSE ON ALL GRAVEL ACCESS DRIVES.
- INSTALL GROUND MOUNTED SOLAR PANELS.
- INSTALL PERIMETER CHAIN LINK FENCE.
- AFTER SUBSTANTIAL COMPLETION OF THE INSTALLATION OF THE SOLAR PANELS, COMPLETE REMAINING SITE WORK AND STABILIZE ALL DISTURBED AREAS.
- FINE GRADE, RAKE, SEED AND MULCH ALL REMAINING DISTURBED AREAS.
- AFTER THE SITE IS STABILIZED AND WITH THE APPROVAL OF THE TOWN OF NORTH CANAAN AGENT, REMOVE PERIMETER EROSION AND SEDIMENTATION CONTROLS.

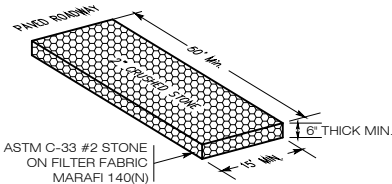
CONSTRUCTION OPERATION AND MAINTENANCE PLAN - BY CONTRACTOR

E&S MEASURE	INSPECTION SCHEDULE	MAINTENANCE REQUIRED
CONSTRUCTION ENTRANCE	DAILY	PLACE ADDITIONAL STONE, EXTEND THE LENGTH OR REMOVE AND REPLACE THE STONE. CLEAN PAVED SURFACES OF TRACKED SEDIMENT.
HAY BALES	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.2"	REPAIR/REPLACE WHEN FAILURE, OR OBSERVED DETERIORATION, IS OBSERVED. REMOVE SILT WHEN IT REACHES 1/2 THE HEIGHT OF THE BALE.
SILT FENCE	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.2"	REPAIR/REPLACE WHEN FAILURE, OR OBSERVED DETERIORATION, IS OBSERVED. REMOVE SILT WHEN IT REACHES 1/2 THE HEIGHT OF THE FENCE.
TOPSOIL/BORROW STOCKPILES	DAILY	REPAIR/REPLACE SEDIMENT BARRIERS AS NECESSARY.
WATER BARS	DAILY	REPAIR/RESHAPE AS NECESSARY. REMOVE SILT WHEN IT REACHES 1/2 THE HEIGHT OF THE WATER BAR.
TEMPORARY DIVERSION DITCHES	DAILY & WITHIN 24 HOURS OF RAINFALL > 0.2"	REPAIR/RESHAPE AS NECESSARY. REVIEW CONDITIONS IF REPETITIVE FAILURES OCCUR.
TEMPORARY SEDIMENT TRAPS/BASINS	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.2"	REMOVE SEDIMENT WHEN IT REACHES 1/2 OF THE MINIMUM REQUIRED WET STORAGE VOLUME.
TEMPORARY SOIL PROTECTION	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.2"	REPAIR ERODED OR BARE AREAS IMMEDIATELY. RESEED AND MULCH.



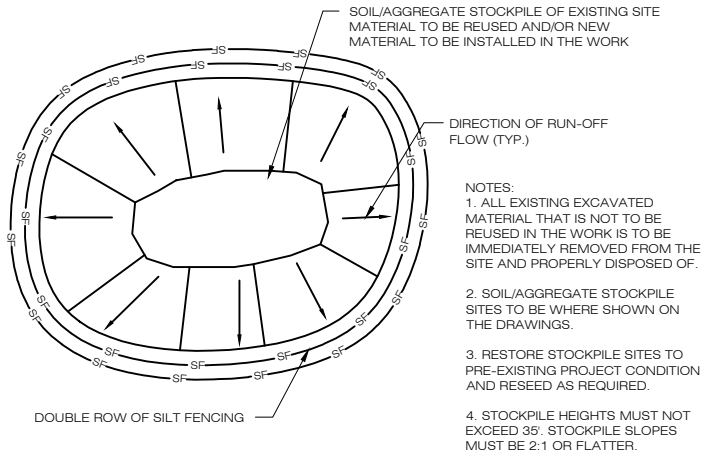
1 SILT FENCE DETAIL

SCALE : NTS



2 CONSTRUCTION ENTRANCE DETAIL

SCALE : NTS



3 MATERIALS STOCKPILE DETAIL

SCALE : NTS

FOR PERMITTING ONLY

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3 SADDLEBROOK DRIVE PHONE: (860)-663-1935
KILLINGWORTH, CT 06419 FAX: (860)-663-0935
WWW.ALLPOINTSTECH.COM

CONSTRUCTION DOCUMENTS

NO	DATE	REVISION
0	02/24/16	FOR REVIEW: EEL
1	04/22/16	FOR REVIEW: BJP
2	06/10/16	CLIENT COMMENTS: BJP
3		
4		
5		
6		

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION
ADD: 3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419

OWNER: BECTON, DICKINSON & COMPANY
ADDRESS: 1 BECTON DRIVE
FRANKLIN LAKES, NJ 07417
(201) 847-6800

SITE ADDRESS: 7 GRACE WAY
NORTH CANAAN, CT 06018

APT FILING NUMBER: CT-478-120

	DRAWN BY: CSH
DATE: 02/24/16	CHECKED BY: EEL

SHEET TITLE:

SEDIMENTATION &
EROSION CONTROL
NOTES & DETAIL SHEET

SHEET NUMBER:

DN-2

SITE PLAN NOTES

1.

ALL CONSTRUCTION SHALL COMPLY WITH SOLAR CITY STANDARDS, TOWN OF NORTH CANAAN STANDARDS, CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS IN THE ABOVE REFERENCED INCREASING HIERARCHY. IF SPECIFICATIONS ARE IN CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL APPLY. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE OSHA, FEDERAL, STATE AND LOCAL REGULATIONS.
2.

THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY ZONING PERMITS REQUIRED BY GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL TOWN OF NORTH CANAAN CONSTRUCTION PERMITS, INCLUDING CONNECTICUT DOT PERMITS. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
3.

REFER TO PLANS, DETAILS AND REPORTS PREPARED BY ALL-POINTS TECHNOLOGY CORPORATION FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE ENGINEER IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS SO THAT APPROPRIATE REVISIONS CAN BE MADE PRIOR TO BIDDING/CONSTRUCTION. ANY CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE CONFIRMED WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
4.

THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS, MATERIALS PER PLANS AND SPECIFICATIONS TO THE OWNER AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE. ALLOW A MINIMUM OF 14 WORKING DAYS FOR REVIEW.
5.

THE CONTRACTOR SHALL FOLLOW THE RECOMMENDED SEQUENCE OF CONSTRUCTION NOTES PROVIDED ON THE EROSION CONTROL PLAN OR SUBMIT AN ALTERNATE PLAN FOR APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION.
6.

SHOULD ANY UNKNOWN OR INCORRECTLY LOCATED EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE CIVIL ENGINEER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.
7.

DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS, EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER AND THE LOCAL MUNICIPALITY. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED.
8.

THE CONTRACT LIMIT IS THE PROPERTY LINE UNLESS OTHERWISE SPECIFIED OR SHOWN ON THE CONTRACT DRAWINGS.
9.

THE CONTRACTOR SHALL ABIDE BY ALL OSHA, FEDERAL, STATE AND LOCAL REGULATIONS WHEN OPERATING CRANES, BOOMS, HOISTS, ETC. IN CLOSE PROXIMITY TO OVERHEAD ELECTRIC LINES. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES, CONTACT POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS. ANY UTILITY COMPANY FEES SHALL BE PAID FOR BY THE CONTRACTOR.
10.

THE CONTRACTOR SHALL RESTORE ANY DRAINAGE STRUCTURE, PIPE, CONDUIT, PAVEMENT, CURBING, SIDEWALKS, LANDSCAPED AREAS OR SIGNAGE DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AS APPROVED BY THE ENGINEER.
11.

THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE OWNER AT THE END OF CONSTRUCTION.
12.

THE ENGINEER IS NOT RESPONSIBLE FOR SITE SAFETY MEASURES TO BE EMPLOYED DURING CONSTRUCTION. THE ENGINEER HAS NO CONTRACTUAL DUTY TO CONTROL THE SAFEST METHODS OR MEANS OF THE WORK, JOB SITE RESPONSIBILITIES, SUPERVISION OF PERSONNEL OR TO SUPERVISE SAFETY AND DO NOT VOLUNTARILY ASSUME ANY SUCH DUTY OR RESPONSIBILITY.
13.

THE CONTRACTOR SHALL COMPLY WITH OSHA CFR 29 PART 1926 FOR EXCAVATION TRENCHING AND TRENCH PROTECTION REQUIREMENTS.
14.

EXISTING TOPOGRAPHY IS BASED ON THE DRAWING TITLED "EXISTING CONDITIONS PLAN" SCALE: 1"=40', DATED 02-15-16 BY "GOLDEN AERIAL SURVEYS, INC"
15.

ALTERNATIVE METHODS AND PRODUCTS, OTHER THAN THOSE SPECIFIED, MAY BE USED IF REVIEWED AND APPROVED BY THE OWNER, ENGINEER, AND APPROPRIATE REGULATORY AGENCY PRIOR TO INSTALLATION DURING THE BIDDING/CONSTRUCTION PROCESS.
16.

INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE SYSTEMS HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY PROVIDER AND MUNICIPAL RECORD MAPS AND/OR FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE SYSTEMS ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STORM DRAINAGE SYSTEMS INCLUDING SERVICES. PRIOR TO DEMOLITION OR CONSTRUCTION, THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" 72 HOURS BEFORE COMMENCEMENT OF WORK AT "1-800-922-4455" AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS.
17.

THESE PLANS ARE FOR PERMITTING PURPOSES ONLY AND ARE NOT TO BE UTILIZED FOR CONSTRUCTION.
18.

NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL APPROVAL OF THE FINAL PLANS IS GRANTED BY ALL GOVERNING AND REGULATORY AGENCIES.
19.

A SOUTHWESTERN PORTION OF THE EXISTING PROPERTY IS LOCATED WITHIN A FEMA DESIGNATED FLOOD HAZARD AREA HOWEVER THE PROJECT AREA IS NOT LOCATED WITHIN A FEMA DESIGNATED FLOOD HAZARD AREA.
20.

THERE ARE WETLANDS LOCATED ON THE SITE AS INDICATED ON THE PLANS. WETLAND BOUNDARIES WERE FLAGGED AND LOCATED BY ALL-POINTS TECHNOLOGY LICENSED SENIOR WETLANDS SCIENTIST.

GRADING AND DRAINAGE NOTES

1.

THIS GRADING AND DRAINAGE DRAWINGS ARE INTENDED TO DESCRIBE GRADING AND DRAINAGE ONLY. REFER TO SITE PLAN FOR GENERAL INFORMATION, AND DETAIL SHEETS FOR DETAILS.
2.

THE CONTRACTOR SHALL PRESERVE EXISTING VEGETATION WHERE POSSIBLE AND/OR AS NOTED ON THE DRAWINGS. REFER TO EROSION CONTROL PLAN FOR LIMIT OF DISTURBANCE AND EROSION CONTROL NOTES.
3.

TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE FOR USE IN FINAL LANDSCAPING.
4.

VERTICAL DATUM IS NGV DATUM 88.
5.

CLEARING LIMITS SHALL BE PHYSICALLY MARKED IN THE FIELD AND APPROVED BY THE TOWN OF CANAAN AGENT PRIOR TO THE START OF WORK ON THE SITE.
6.

PROPER CONSTRUCTION PROCEDURES SHALL BE FOLLOWED ON ALL IMPROVEMENTS WITHIN THIS PARCEL SO AS TO PREVENT THE SILTING OF ANY WATERCOURSE OR WETLANDS IN ACCORDANCE WITH THE REGULATIONS 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT POLLUTION CONTROL MANUAL. IN ADDITION, THE CONTRACTOR SHALL STRICTLY ADHERE TO THE "EROSION CONTROL PLAN" CONTAINED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE TO POST ALL BONDS AS REQUIRED BY THE LOCAL MUNICIPALITIES WHICH WOULD GUARANTEE THE PROPER IMPLEMENTATION OF THE PLAN.
7.

ALL SITE WORK, MATERIALS OF CONSTRUCTION, AND CONSTRUCTION METHODS FOR EARTHWORK AND STORM DRAINAGE WORK, SHALL CONFORM TO THE SPECIFICATIONS AND DETAILS AND APPLICABLE SECTIONS OF THE PROJECT SPECIFICATIONS MANUAL. OTHERWISE THIS WORK SHALL CONFORM TO THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION AND PROJECT GEOTECHNICAL REPORT IF THERE IS NO PROJECT SPECIFICATIONS MANUAL. ALL FILL MATERIAL UNDER STRUCTURES AND PAVED AREAS SHALL BE PER THE ABOVE STATED APPLICABLE SPECIFICATIONS, AND/OR PROJECT GEOTECHNICAL REPORT, AND SHALL BE PLACED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL ENGINEER. MATERIAL SHALL BE COMPACTED IN 6" LIFTS TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557 AT 95% PERCENT OF OPTIMUM MOISTURE CONTENT.
8.

ALL DISTURBANCE INCURRED TO PUBLIC, MUNICIPAL, COUNTY, STATE PROPERTY DUE TO CONSTRUCTION SHALL BE RESTORED TO ITS PREVIOUS CONDITION OR BETTER, TO THE SATISFACTION OF THE TOWN OF NORTH CANAAN AND STATE OF CONNECTICUT.
9.

IF IMPACTED OR CONTAMINATED SOIL IS ENCOUNTERED BY THE CONTRACTOR, THE CONTRACTOR SHALL SUSPEND EXCAVATION WORK OF IMPACTED SOIL AND NOTIFY THE OWNER AND/OR OWNERS ENVIRONMENTAL CONSULTANT PRIOR TO PROCEEDING WITH FURTHER WORK IN THE IMPACTED SOIL LOCATION UNTIL FURTHER INSTRUCTED BY THE OWNER AND/OR OWNERS ENVIRONMENTAL CONSULTANT.

UTILITIES NOTES

1.

CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE TOWN OF NORTH CANAAN TO SECURE CONSTRUCTION PERMITS AND FOR PAYMENT OF FEES FOR STREET CUTS AND CONNECTIONS TO EXISTING UTILITIES.
2.

THIS PLAN DETAILS SITE INSTALLED PIPES UP TO 5' FROM THE BUILDING FACE. REFER TO DRAWINGS BY SOLAR CITY FOR TIE-IN CONNECTION TO EXISTING ELECTRICAL GRID. SITE CONTRACTOR SHALL SUPPLY AND INSTALL PIPE ADAPTERS AS NECESSARY AT BUILDING CONNECTION POINT OR AT EXISTING UTILITY OR PIPE CONNECTION POINT.
3.

THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE ELEVATION AND LOCATION OF ALL UTILITIES BY VARIOUS MEANS PRIOR TO BEGINNING ANY EXCAVATION. TEST PITS SHALL BE DUG AT ALL LOCATIONS WHERE PROPOSED SANITARY SEWERS AND WHERE PROPOSED STORM PIPING WILL CROSS EXISTING UTILITIES, AND THE HORIZONTAL AND VERTICAL LOCATIONS OF THE UTILITIES SHALL BE DETERMINED. THE CONTRACTOR SHALL CONTACT THE ENGINEER IN THE EVENT OF ANY DISCOVERED OR UNFORESEEN CONFLICTS BETWEEN EXISTING AND PROPOSED SANITARY SEWERS, STORM PIPING AND UTILITIES SO THAT AN APPROPRIATE MODIFICATION MAY BE MADE.
4.

UTILITY CONNECTION DESIGN AS REFLECTED ON THE PLAN MAY CHANGE SUBJECT TO UTILITY PROVIDER AND GOVERNING AUTHORITY STAFF REVIEW.
5.

THE CONTRACTOR SHALL ENSURE THAT ALL UTILITY PROVIDERS AND GOVERNING AUTHORITY STANDARDS FOR MATERIALS AND CONSTRUCTION METHODS ARE MET. THE CONTRACTOR SHALL PERFORM PROPER COORDINATION WITH THE RESPECTIVE UTILITY PROVIDER.
6.

THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE WITH THE RESPECTIVE UTILITY PROVIDERS FOR SERVICE INSTALLATIONS AND CONNECTIONS. THE CONTRACTOR SHALL COORDINATE WORK TO BE PERFORMED BY THE VARIOUS UTILITY PROVIDERS AND SHALL PAY ALL FEES FOR CONNECTIONS, DISCONNECTIONS, RELOCATIONS, INSPECTIONS, AND DEMOLITION UNLESS OTHERWISE STATED IN THE PROJECT SPECIFICATIONS MANUAL AND/OR GENERAL CONDITIONS OF THE CONTRACT.
7.

ALL EXISTING PAVEMENT WHERE UTILITY PIPING IS TO BE INSTALLED SHALL BE SAW CUT. AFTER UTILITY INSTALLATION IS COMPLETED, THE CONTRACTOR SHALL INSTALL TEMPORARY AND/OR PERMANENT PAVEMENT REPAIR AS DETAILED ON THE DRAWINGS OR AS REQUIRED BY THE OWNER HAVING JURISDICTION.
8.

ALL PIPES SHALL BE LAID ON STRAIGHT ALIGNMENTS AND EVEN GRADES USING A PIPE LASER OR OTHER ACCURATE METHOD.
9.

RELOCATION OF UTILITY PROVIDER FACILITIES, SUCH AS POLES, SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY PROVIDER.
10.

THE CONTRACTOR SHALL COMPACT PIPE BACKFILL IN 8" LIFTS ACCORDING TO THE PIPE BEDDING DETAILS. TRENCH BOTTOM SHALL BE STABLE IN HIGH GROUNDWATER AREAS. A PIPE FOUNDATION SHALL BE USED PER THE TRENCH DETAILS AND IN AREAS OF ROCK EXCAVATION.
11.

CONTRACTOR TO PROVIDE STEEL SLEEVES AND ANNULAR SPACE SAND FILL FOR UTILITY PIPE AND CONDUIT CONNECTIONS UNDER FOOTINGS.
12.

BUILDING UTILITY PENETRATIONS AND LOCATIONS ARE SHOWN FOR THE CONTRACTOR'S INFORMATION AND SHALL BE VERIFIED WITH THE BUILDING MEP DRAWINGS AND WITH THE OWNER'S CONSTRUCTION MANAGER.
13.

ALL UTILITY CONSTRUCTION IS SUBJECT TO INSPECTION FOR APPROVAL PRIOR TO BACKFILLING, IN ACCORDANCE WITH THE APPROPRIATE UTILITY PROVIDER REQUIREMENTS.
14.

A ONE-FOOT MINIMUM VERTICAL CLEARANCE BETWEEN WATER, GAS, ELECTRICAL, AND TELEPHONE LINES AND STORM PIPING SHALL BE PROVIDED. A SIX-INCH MINIMUM CLEARANCE SHALL BE MAINTAINED BETWEEN STORM PIPING AND SANITARY SEWER. A 6-INCH TO 18-INCH VERTICAL CLEARANCE BETWEEN SANITARY SEWER PIPING AND STORM PIPING SHALL REQUIRE CONCRETE ENCASEMENT OF THE PROPOSED SANITARY PIPING.
15.

SITE CONTRACTOR SHALL PROVIDE ALL BENDS, FITTINGS, ADAPTERS, ETC., AS REQUIRED FOR PIPE CONNECTIONS TO BUILDING STUB OUTS, INCLUDING ROOF/FOOTING DRAIN CONNECTIONS TO ROOF LEADERS AND TO STORM DRAINAGE SYSTEM.
16.

THE CONTRACTOR SHALL RESTORE ANY UTILITY STRUCTURE, PIPE, CONDUIT, PAVEMENT, CURBING, SIDEWALKS, DRAINAGE STRUCTURE, SWALE OR LANDSCAPED AREAS DISTURBED DURING CONSTRUCTION, TO THEIR ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE OWNER AND TOWN OF NORTH CANAAN.
17.

INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY PROVIDER AND MUNICIPAL RECORD MAPS AND/OR FIELD SURVEY, AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STORM DRAINAGE INCLUDING SERVICES. CONTACT "CALL BEFORE YOU DIG" AT (800) 922-4455 72 HOURS PRIOR TO CONSTRUCTION AND VERIFY ALL UNDERGROUND AND OVERHEAD UTILITY AND STORM DRAINAGE LOCATIONS. THE CONTRACTOR SHALL EMPLOY THE USE OF A UTILITY LOCATING COMPANY TO PROVIDE SUBSURFACE UTILITY ENGINEERING CONSISTING OF DESIGNATING UTILITIES AND STORM PIPING ON PRIVATE PROPERTY WITHIN THE CONTRACT LIMIT AND CONSISTING OF DESIGNATING AND LOCATING WHERE PROPOSED UTILITIES AND STORM PIPING CROSS EXISTING UTILITIES AND STORM PIPING WITHIN THE CONTRACT LIMITS.
18.

THE CONTRACTOR SHALL ARRANGE AND COORDINATE WITH UTILITY PROVIDERS FOR WORK TO BE PERFORMED BY UTILITY PROVIDERS. THE CONTRACTOR SHALL PAY ALL UTILITY FEES UNLESS OTHERWISE STATED IN THE PROJECT SPECIFICATION MANUAL AND GENERAL CONDITIONS, AND REPAIR PAVEMENTS AS NECESSARY.
19.

ELECTRIC SERVICES SHALL BE INSTALLED UNDERGROUND. THE CONTRACTOR SHALL PROVIDE AND INSTALL AND BACKFILL PVC CONDUITS FOR ELECTRIC SERVICE. REFER TO ELECTRICAL PLANS AND WIRE SCHEDULE FOR ACTUAL NUMBER AND LOCATION OF CONDUITS. SERVICES MAY BE INSTALLED IN A COMMON TRENCH WITH 12" CLEAR SPACE BETWEEN. MINIMUM COVER IS 36" ON ELECTRIC CONDUITS. SERVICES SHALL BE MARKED WITH MAGNETIC LOCATOR TAPE AND SHALL BE BEDDED, INSTALLED, AND BACKFILLED IN ACCORDANCE WITH ELECTRIC UTILITY PROVIDER COMPANY STANDARDS. GALVANIZED STEEL ELECTORICAL CONDUIT SHALL BE USED AT POLE AND TRANSFORMER LOCATIONS. INSTALL HANDHOLES AS REQUIRED TO FACILITATE INSTALLATION AND AS REQUIRED BY UTILITY PROVIDER. INSTALL CONCRETE ENCASEMENT ON PRIMARY ELECTRIC CONDUITS IF REQUIRED BY ELECTRIC PROVIDER.
20.

ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE OWNER, ENGINEER, AND APPROPRIATE REGULATORY AGENCIES PRIOR TO INSTALLATION.
21.

THE CONTRACTOR SHALL MAINTAIN ALL FLOWS AND UTILITY CONNECTIONS TO EXISTING BUILDINGS WITHOUT INTERRUPTION UNLESS UNTIL AUTHORIZED TO DISCONNECT BY THE OWNERS, THE CIVIL ENGINEER, UTILITY PROVIDERS AND GOVERNING AUTHORITIES.

SEQUENCE OF CONSTRUCTION.

1.

PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECPs), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2.

BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECPs IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECPs EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECPs 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 THE COMPACTED SOIL AND FOLD THE REMAINING 12" PORTION OF RECPs BACK OVER THE SEED AND COMPACTED SOIL. SECURE RECPs OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECPs.
3.

ROLL THE RECPs DOWN HORIZONTALLY ACROSS THE SLOPE. RECPs WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECPs MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE.
4.

THE EDGES OF PARALLEL RECPs MUST BE STAPLED WITH APPROXIMATELY 2" - 5" OVERLAP DEPENDING ON THE RECPs TYPE.
5.

CONSECUTIVE RECPs SPLICED DOWN THE SLOPE MUST BE END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE RECPs WIDTH.

NOTES:

1.

PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.
2.

SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.
3.

BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.
4.

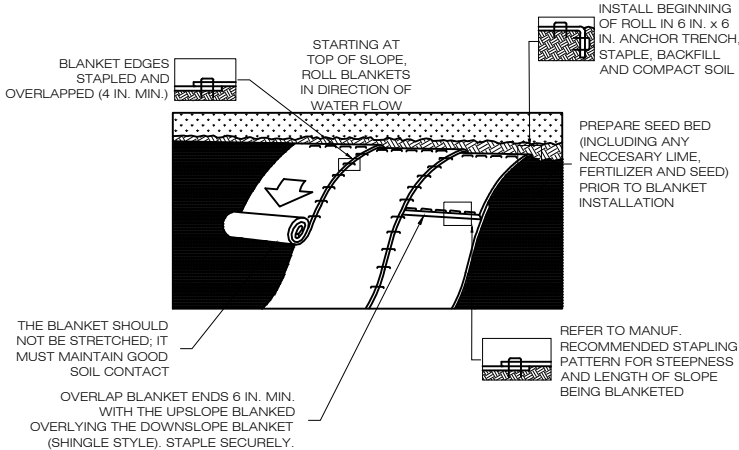
THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
5.

BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

AMERICAN TOWER MASTER SPECIFICATION:

1.

DIVISION 31 EARTHWORK SECTION 0312500 FOR EROSION AND SEDIMENT CONTROLS



EROSION CONTROL BLANKET STEEP SLOPES

SCALE : N.T.S.

FOR PERMITTING ONLY

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CONSTRUCTION DOCUMENTS

NO	DATE	REVISION
0	02/24/16	FOR REVIEW: EEL
1	04/22/16	FOR REVIEW: BJP
2	06/10/16	CLIENT COMMENTS: BJP
3		
4		
5		
6		

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION
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(201) 847-6800

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APT FILING NUMBER: CT-478-120

	DRAWN BY: CSH
DATE: 02/24/16	CHECKED BY: EEL

SHEET TITLE:

NOTES & SPECIFICATIONS

SHEET NUMBER:

DN-3