

Site Plans

Issued for	Application
Date Issued	December 2, 2019
Latest Issue	July 28, 2020

Photovoltaic Installation

117 Oil Mill Road
Waterford, Connecticut

Applicant

GRE Gacrux, LLC
10 Main Street, Suite E
Middletown, CT 06457

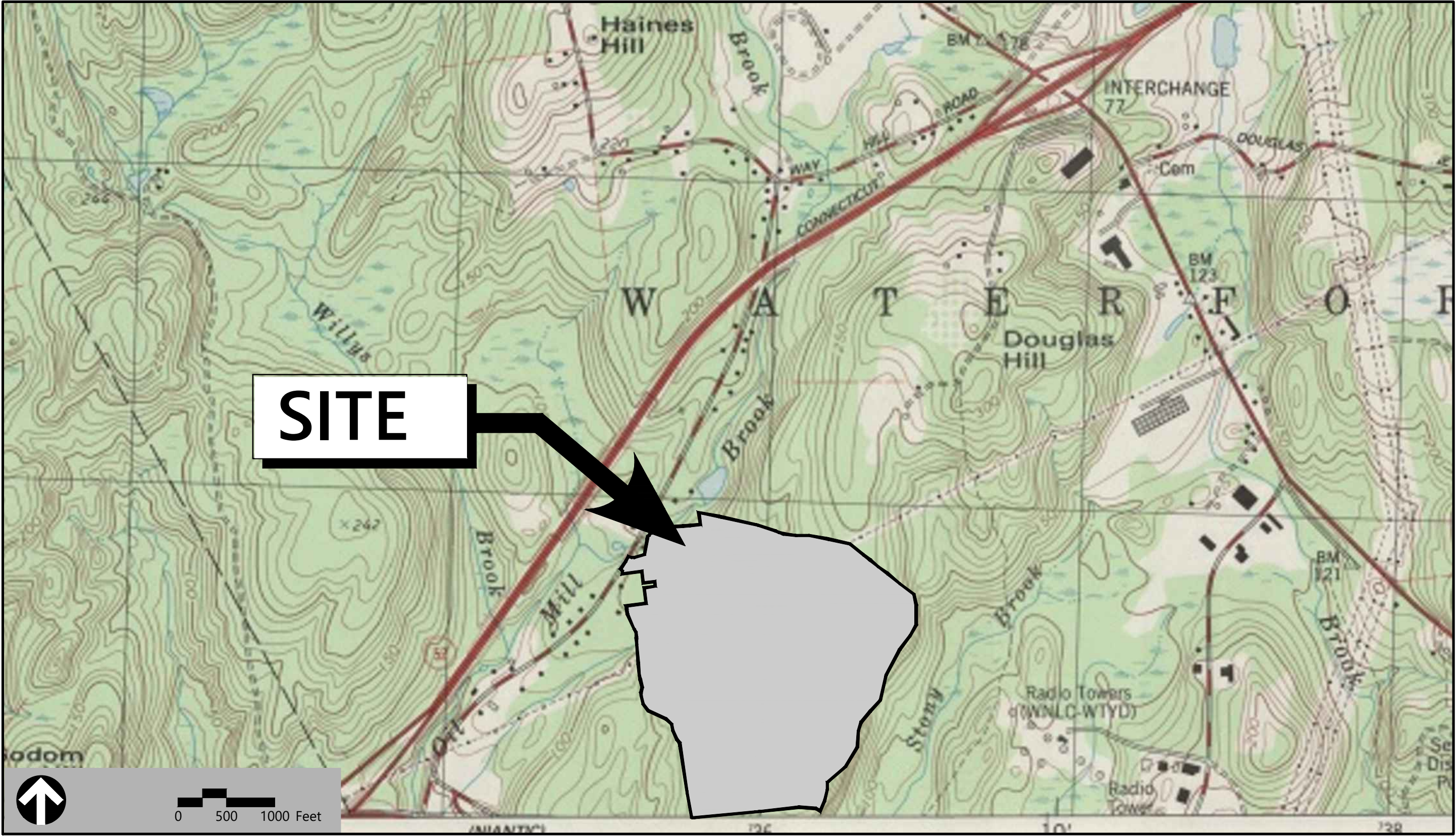
Map / Lot:

80 / 5497

Owner

Rosalie Irene Maguire & Todd Carl Willis
149 Watson Road
Preston, CT 06365

Attachment B



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C-6.1-6.2	Site Details	July 28, 2020			





100 Great Meadow Road

Suite 200

Wethersfield, CT 06109

860.807.4300

Legend

Exist.	Prop.		Exist.	Prop.	
		PROPERTY LINE			CONCRETE
		PROJECT LIMIT LINE			HEAVY DUTY PAVEMENT
		RIGHT-OF-WAY/PROPERTY LINE			BUILDINGS
		EASEMENT			RIPRAP
		BUILDING SETBACK			CONSTRUCTION EXIT
		PARKING SETBACK			
		BASELINE	27.35 TC x	27.35 TC x	TOP OF CURB ELEVATION
		CONSTRUCTION LAYOUT	26.85 BC x	26.85 BC x	BOTTOM OF CURB ELEVATION
		ZONING LINE	132.75 x	132.75 x	SPOT ELEVATION
		TOWN LINE	45.0 TW x	45.0 TW x	TOP & BOTTOM OF WALL ELEVATION
			38.5 BW	38.5 BW	
					BORING LOCATION
					TEST PIT LOCATION
					MONITORING WELL
		LIMIT OF DISTURBANCE			UNDERDRAIN
		WETLAND LINE WITH FLAG			DRAIN
		FLOODPLAIN			ROOF DRAIN
		100-YEAR FLOOD LIMITS			SEWER
					FORCE MAIN
					OVERHEAD WIRE
					WATER
					FIRE PROTECTION
					DOMESTIC WATER
					GAS
					ELECTRIC
					STEAM
					TELEPHONE
					FIRE ALARM
					CABLE TV
		GRAVEL ROAD			
		EDGE OF PAVEMENT			
		BITUMINOUS BERM			
		BITUMINOUS CURB			
		CONCRETE CURB			
		CURB AND GUTTER			
		EXTRUDED CONCRETE CURB			
		MONOLITHIC CONCRETE CURB			
		PRECAST CONC. CURB			
		SLOPED GRAN. EDGING			
		VERT. GRAN. CURB			
		LIMIT OF CURB TYPE			
		SAWCUT			
		BUILDING			CATCH BASIN
		BUILDING ENTRANCE			DOUBLE CATCH BASIN
		LOADING DOCK			GUTTER INLET
		BOLLARD			DRAIN MANHOLE
		DUMPSTER PAD			TRENCH DRAIN
		SIGN			PLUG OR CAP
		DOUBLE SIGN			CLEANOUT
					FLARED END SECTION
		STEEL GUARDRAIL			HEADWALL
		WOOD GUARDRAIL			
		PATH			SEWER MANHOLE
		TREE LINE			
		WIRE FENCE			
		FENCE			
		STOCKADE FENCE			
		STONE WALL			
		RETAINING WALL			
		STREAM / POND / WATER COURSE			
		DETENTION BASIN			
		HAY BALES			
		SILT FENCE			
		SILT SOCK / STRAW WATTLE			
		MINOR CONTOUR			
		MAJOR CONTOUR			
		PARKING COUNT			
		COMPACT PARKING STALLS			
		DOUBLE YELLOW LINE			
		STOP LINE			
		CROSSWALK			
		ACCESSIBLE CURB RAMP			
		ACCESSIBLE PARKING			
		VAN-ACCESSIBLE PARKING			
				</	

Abbreviations

General	
ABAN	ABANDON
ACR	ACCESSIBLE CURB RAMP
ADJ	ADJUST
APPROX	APPROXIMATE
BIT	BITUMINOUS
B5	BOTTOM OF SLOPE
BWLL	BROKEN WHITE LANE LINE
CONC	CONCRETE
DYCL	DOUBLE YELLOW CENTER LINE
EL	ELEVATION
ELEV	ELEVATION
EX	EXISTING
FDN	FOUNDATION
FFE	FIRST FLOOR ELEVATION
GRAN	GRANITE
GTD	GRADE TO DRAIN
LA	LANDSCAPE AREA
LOD	LIMIT OF DISTURBANCE
MAX	MAXIMUM
MIN	MINIMUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PERF	PERFORATED
PROP	PROPOSED
REM	REMOVE
RET	RETAIN
R&D	REMOVE AND DISPOSE
R&R	REMOVE AND RESET
SWEL	SOLID WHITE EDGE LINE
SWLL	SOLID WHITE LANE LINE
TS	TOP OF SLOPE
TYP	TYPICAL
Utility	
CB	CATCH BASIN
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
DCB	DOUBLE CATCH BASIN
DMH	DRAIN MANHOLE
CIP	CAST IRON PIPE
COND	CONDUIT
DIP	DUCTILE IRON PIPE
FES	FLARED END SECTION
FM	FORCE MAIN
F&G	FRAME AND GRATE
F&C	FRAME AND COVER
GI	GUTTER INLET
GT	GREASE TRAP
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HH	HANDHOLE
HW	HEADWALL
HYD	HYDRANT
INV	INVERT ELEVATION
I=	INVERT ELEVATION
LP	LIGHT POLE
MES	METAL END SECTION
PIV	POST INDICATOR VALVE
PWW	PAVED WATER WAY
PVC	POLYVINYLCHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
R=	RIM ELEVATION
SMH	SEWER MANHOLE
TSV	TAPPING SLEEVE, VALVE AND BOX
UG	UNDERGROUND
UP	UTILITY POLE

Notes

General	
1. CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" (811 OR 1-800-922-4455) AT LEAST 72 HOURS BEFORE EXCAVATING.	4. CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED TO PREVENT EROSION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.	5. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ENTIRE DRAINAGE AND SEWER SYSTEMS.
3. WORK WITHIN THE LOCAL RIGHTS-OF-WAY SHALL CONFORM TO LOCAL MUNICIPAL STANDARDS.	6. VEGETATIVE SLOPE STABILIZATION WILL BE IMPLEMENTED WITHIN 72 HOURS AFTER GRADING OR CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. VEGETATIVE SLOPE STABILIZATION WILL BE USED TO MINIMIZE EROSION ON SLOPES OF 3:1 OR STEEPER. ESTABLISHMENT OF TEMPORARY AND PERMANENT VEGETATIVE COVER MAY BE ESTABLISHED BY HYDRO-SEEDING OR SOODING. A SUITABLE TOPSOIL, GOOD SEEDBED PREPARATION, AND ADEQUATE LIME, FERTILIZER AND WATER WILL BE PROVIDED FOR EFFECTIVE ESTABLISHMENT OF THESE VEGETATIVE STABILIZATION METHODS. MULCH WILL ALSO BE USED AFTER PERMANENT SEEDING TO PROTECT SOIL FROM THE IMPACT OF FALLING RAIN AND TO INCREASE THE CAPACITY OF THE SOIL TO ABSORB WATER.
4. UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS. DO NOT CUT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, AND FIRE HYDRANTS, WITHOUT APPROPRIATE PERMITS.	Document Use
5. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.	1. THESE PLANS AND CORRESPONDING CADD DOCUMENTS ARE INSTRUMENTS OF PROFESSIONAL SERVICE, AND SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE OTHER THAN FOR WHICH IT WAS CREATED WITHOUT THE EXPRESSED, WRITTEN CONSENT OF VHB. ANY UNAUTHORIZED USE, REUSE, MODIFICATION OR ALTERATION, INCLUDING AUTOMATED CONVERSION OF THIS DOCUMENT SHALL BE AT THE USER'S SOLE RISK WITHOUT LIABILITY OR LEGAL EXPOSURE TO VHB.
6. IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, GROUNDWATER, AND OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL TO AVOID FURTHER SPREADING OF THE MATERIAL, AND SHALL NOTIFY THE OWNER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.	2. CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS, BUT SHALL VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.
7. CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS.	3. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
8. DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.	
9. CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO OFF SITE AREAS, AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT NO COST TO OWNER.	
10. THIS PROJECT DISTURBS MORE THAN FIVE ACRES OF LAND AND WILL REQUIRE ADHERENCE TO AND REGISTRATION FOR THE CONNECTICUT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS FROM CONSTRUCTION ACTIVITIES, EFFECTIVE OCTOBER 1, 2019.	
11. STAGING AND STOCKPILE AREAS SHALL NOT BE LOCATED WITHIN ANY WETLAND AND ABUTTING RESOURCE AREA AND SHALL BE LOCATED WITHIN THE LIMITS OF DISTURBANCE.	
Utilities	
1. THE LOCATIONS, SIZES, AND TYPES OF EXISTING UTILITIES ARE SHOWN AS AN APPROXIMATE REPRESENTATION ONLY. THE OWNER OR IT'S REPRESENTATIVE(S) HAVE NOT INDEPENDENTLY VERIFIED THIS INFORMATION AS SHOWN ON THE PLANS. THE UTILITY INFORMATION SHOWN DOES NOT GUARANTEE THE ACTUAL EXISTENCE, SERVICEABILITY, OR OTHER DATA CONCERNING THE UTILITIES, NOR DOES IT GUARANTEE THE POSSIBILITY THAT ADDITIONAL UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THE PLANS. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND DETERMINE THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES AND, SHALL CONFIRM THAT THERE ARE NO INTERFERENCES WITH EXISTING UTILITIES AND THE PROPOSED UTILITY ROUTES, INCLUDING ROUTES WITHIN THE PUBLIC RIGHTS-OF-WAY.	
2. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, OR EXISTING CONDITIONS DIFFER FROM THOSE SHOWN SUCH THAT THE WORK CANNOT BE COMPLETED AS INTENDED, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED IN WRITING TO THE OWNER'S REPRESENTATIVE FOR THE RESOLUTION OF THE CONFLICT AND CONTRACTOR'S FAILURE TO NOTIFY PRIOR TO PERFORMING ADDITIONAL WORK RELEASES OWNER FROM OBLIGATIONS FOR ADDITIONAL PAYMENTS WHICH OTHERWISE MAY BE WARRANTED TO RESOLVE THE CONFLICT.	
3. RIM ELEVATIONS FOR DRAIN AND SEWER MANHOLES, WATER VALVE COVERS, GAS GATES, ELECTRIC AND TELEPHONE PULL BOXES, AND MANHOLES, AND OTHER SUCH ITEMS, ARE APPROXIMATE AND SHALL BE SET/RESET AS FOLLOWS: A. PAVEMENTS AND CONCRETE SURFACES: FLUSH B. ALL SURFACES ALONG ACCESSIBLE ROUTES: FLUSH C. LANDSCAPE, LOAM AND SEED, AND OTHER EARTH SURFACE AREAS: ONE INCH ABOVE SURROUNDING AREA AND TAPER EARTH TO THE RIM ELEVATION.	
4. THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY, THE RESPECTIVE UTILITY COMPANY (GAS, TELEPHONE, ELECTRIC, FIRE ALARM, ETC.). FINAL DESIGN LOADS AND LOCATIONS TO BE COORDINATED WITH OWNER AND ARCHITECT.	
5. CONTRACTOR SHALL MAKE ARRANGEMENTS FOR AND SHALL BE RESPONSIBLE FOR PAYING FEES FOR POLE RELOCATION AND FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, FIRE ALARM, AND ANY OTHER PRIVATE UTILITIES, WHETHER WORK IS PERFORMED BY CONTRACTOR OR BY THE UTILITIES COMPANY.	
6. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND SHALL FURNISH EXCAVATION, INSTALLATION, AND BACKFILL OF ELECTRICAL FURNISHED SITEWORK RELATED ITEMS SUCH AS PULL BOXES, CONDUITS, DUCT BANKS, LIGHT POLE BASES, AND CONCRETE PADS. SITE CONTRACTOR SHALL FURNISH CONCRETE ENCASEMENT OF DUCT BANKS IF REQUIRED BY THE UTILITY COMPANY AND AS INDICATED ON THE DRAWINGS.	
Layout and Materials	
1. PROPOSED BOUNDS AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.	
2. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTING PAVEMENT ELEVATIONS AT INTERSECTIONS WITH PROPOSED PAVEMENTS, AND EXISTING GROUND ELEVATIONS ADJACENT TO DRAINAGE OUTLETS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES.	
3. FINAL LAYOUT SUBJECT TO CONDITIONS ENCOUNTERED IN THE FIELD.	
Demolition	
1. CONTRACTOR SHALL DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.	
2. THE DEMOLITION LIMITS DEPICTED IN THE PLANS IS INTENDED TO AID THE CONTRACTOR DURING THE BIDDING AND CONSTRUCTION PROCESS AND IS NOT INTENDED TO DEPICT EACH AND EVERY ELEMENT OF DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THE DETAILED SCOPE OF DEMOLITION BEFORE SUBMITTING ITS BID/PROPOSAL TO PERFORM THE WORK AND SHALL MAKE NO CLAIMS AND SEEK NO ADDITIONAL COMPENSATION FOR CHANGED CONDITIONS OR UNFORESEEN OR LATENT SITE CONDITIONS RELATED TO ANY CONDITIONS DISCOVERED DURING EXECUTION OF THE WORK.	
3. UNLESS OTHERWISE SPECIFICALLY PROVIDED ON THE PLANS OR IN THE SPECIFICATIONS, THE ENGINEER HAS NOT PREPARED DESIGNS FOR AND SHALL HAVE NO RESPONSIBILITY FOR THE PRESENCE, DISCOVERY, REMOVAL, ABATEMENT OR DISPOSAL OF HAZARDOUS MATERIALS, TOXIC WASTES OR POLLUTANTS AT THE PROJECT SITE. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY CLAIMS OF LOSS, DAMAGE, EXPENSE, DELAY, INJURY OR DEATH ARISING FROM THE PRESENCE OF HAZARDOUS MATERIALS AND CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ANY CLAIMS MADE IN CONNECTION THEREWITH. MOROVER, THE ENGINEER SHALL HAVE NO ADMINISTRATIVE OBLIGATIONS OF ANY TYPE WITH REGARD TO ANY CONTRACTOR AMENDMENT INVOLVING THE ISSUES OF PRESENCE, DISCOVERY, REMOVAL, ABATEMENT OR DISPOSAL OF ASBESTOS OR OTHER HAZARDOUS MATERIALS.	
Erosion Control	
1. PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE	

Photovoltaic Installation

117 Oil Mill Road
Waterford, Connecticut

No.	Revision	Date	Apprvd.
1	CTDEEP Comments	3/12/2020	SJK
2	CSC & CTDEEP Comments	7/28/2020	SJK

Designed by	Checked by
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Issued for	Date
11/1/11	11/1/11

Application

December 2, 2019

Not Approved for Construction

Drawing Title

Legend and General Notes

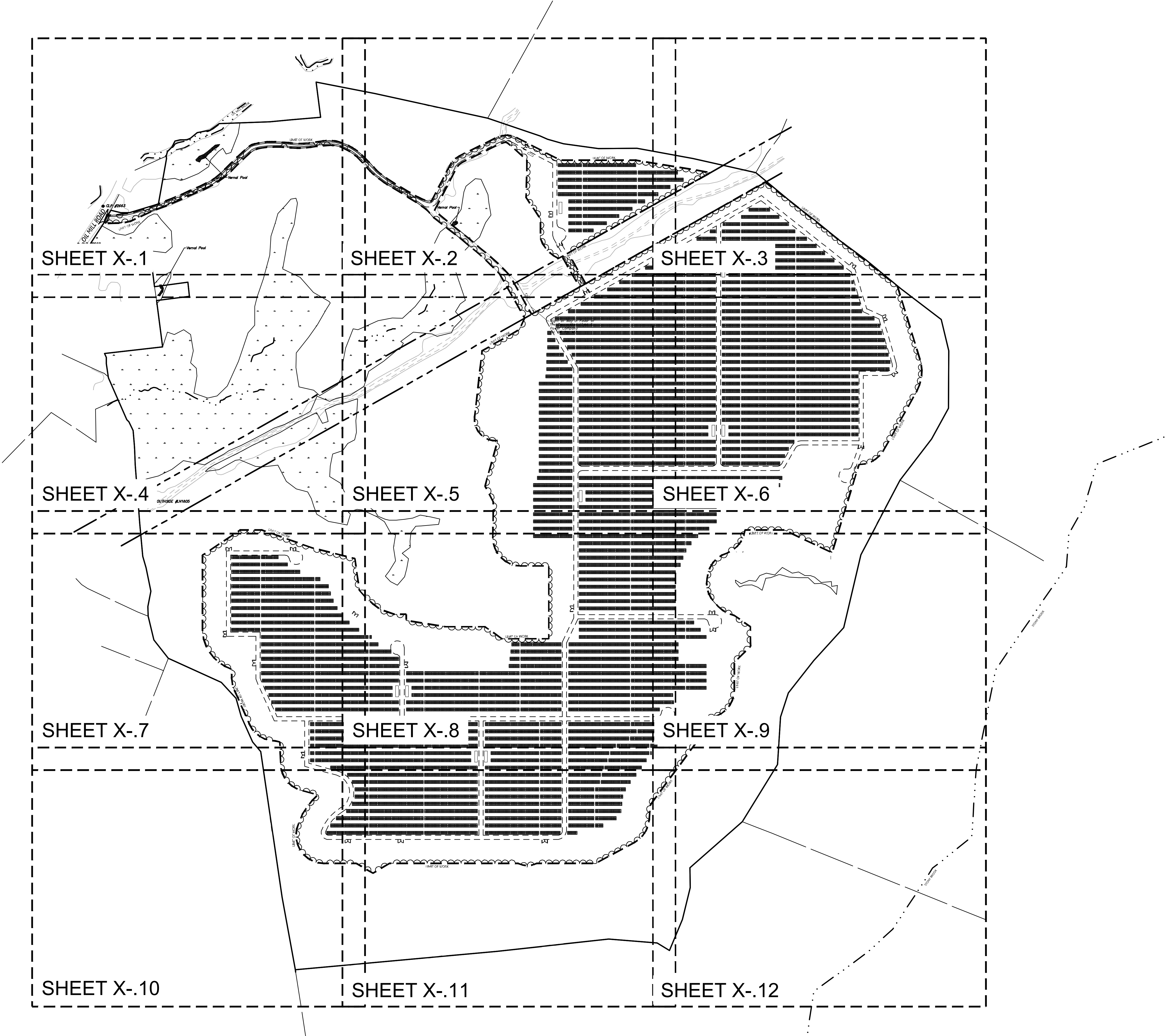
Drawing Number

C-1

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100 Great Meadow Road
Suite 200
Wethersfield, CT 06109
860.807.4300



0 80 160 320Feet

Photovoltaic Installation
117 Oil Mill Road
Waterford, Connecticut

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Drawing Title
Key Plan

Drawing Number

C-2

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Project Number
42496.00

PROJECT INFORMATION

PARCEL SIZE: ±152 ACRES

ZONE DESIGNATION: RU-120 RURAL RESIDENTIAL

LIMIT OF WORK: ±75 ACRES

AREA OF PROPOSED TREE CLEARING: ±75 ACRES (PRE-TIMBER HARVEST)

NON-DISTURBANCE BUFFER TO WETLANDS: > 100'

PROPOSED NUMBER OF PANELS: 45,566

PANEL TYPE: JINKO SOLAR EAGLE HC 72M G2 400W

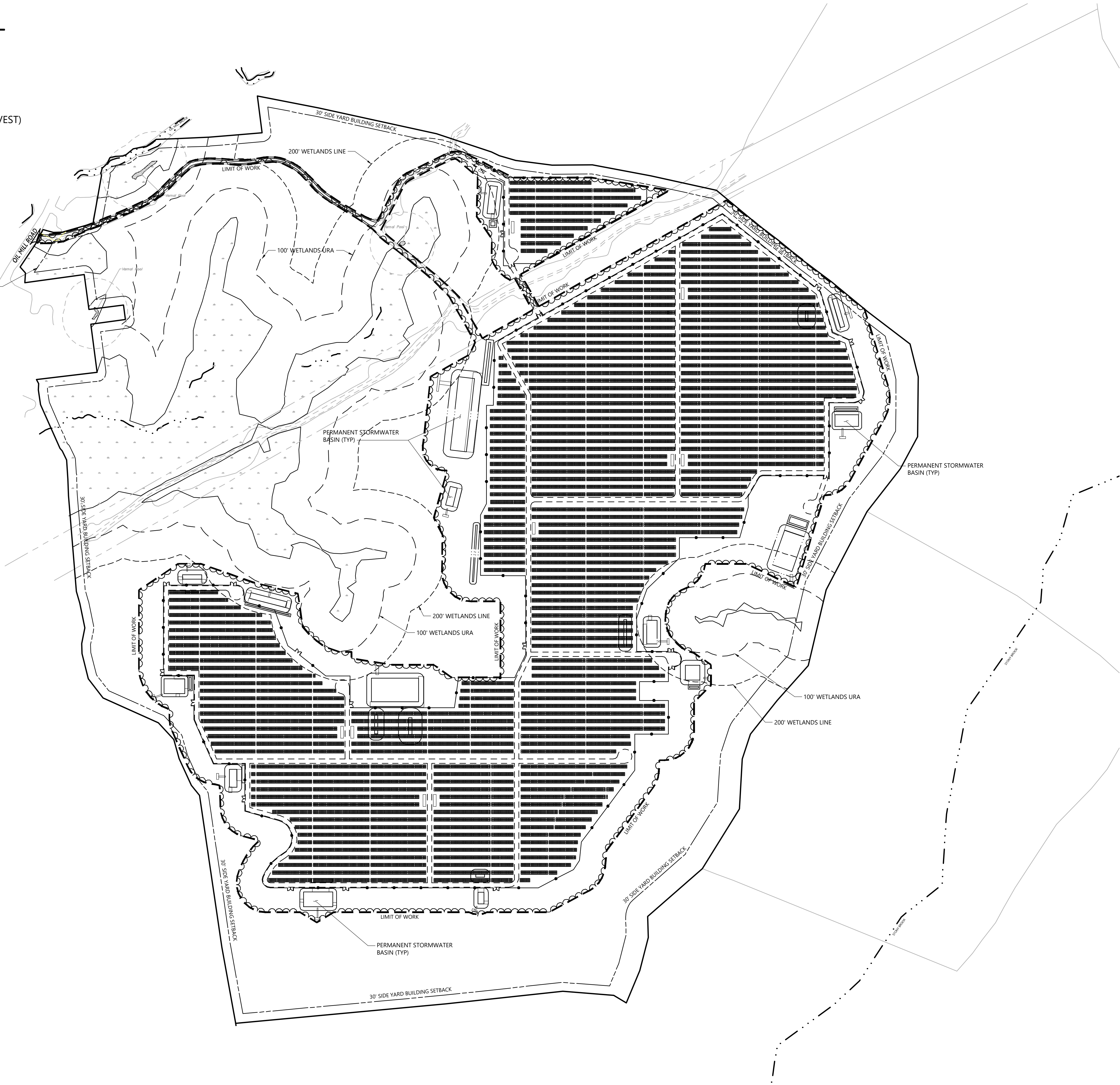
ROW SPACING: 14.5' CLEAR

TILT ANGLE: 25°

INVERTER TYPE: SOLECTRIA RENEWABLES XGI 1000-60/65

SYSTEM POWER: 18.23 MW-DC / ±15.33 MW-AC

50' FRONT YARD BUILDING SETBACK





vhb.com

100 Great Meadow Road
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C-3.1	C-3.2	C-3.3
C-3.4	C-3.5	C-3.6
C-3.7	C-3.8	C-3.9
C-3.10	C-3.11	C-3.12

Key

Not To Scale



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Layout and
Materials Plan - Overall

Drawing Number

C-3.0

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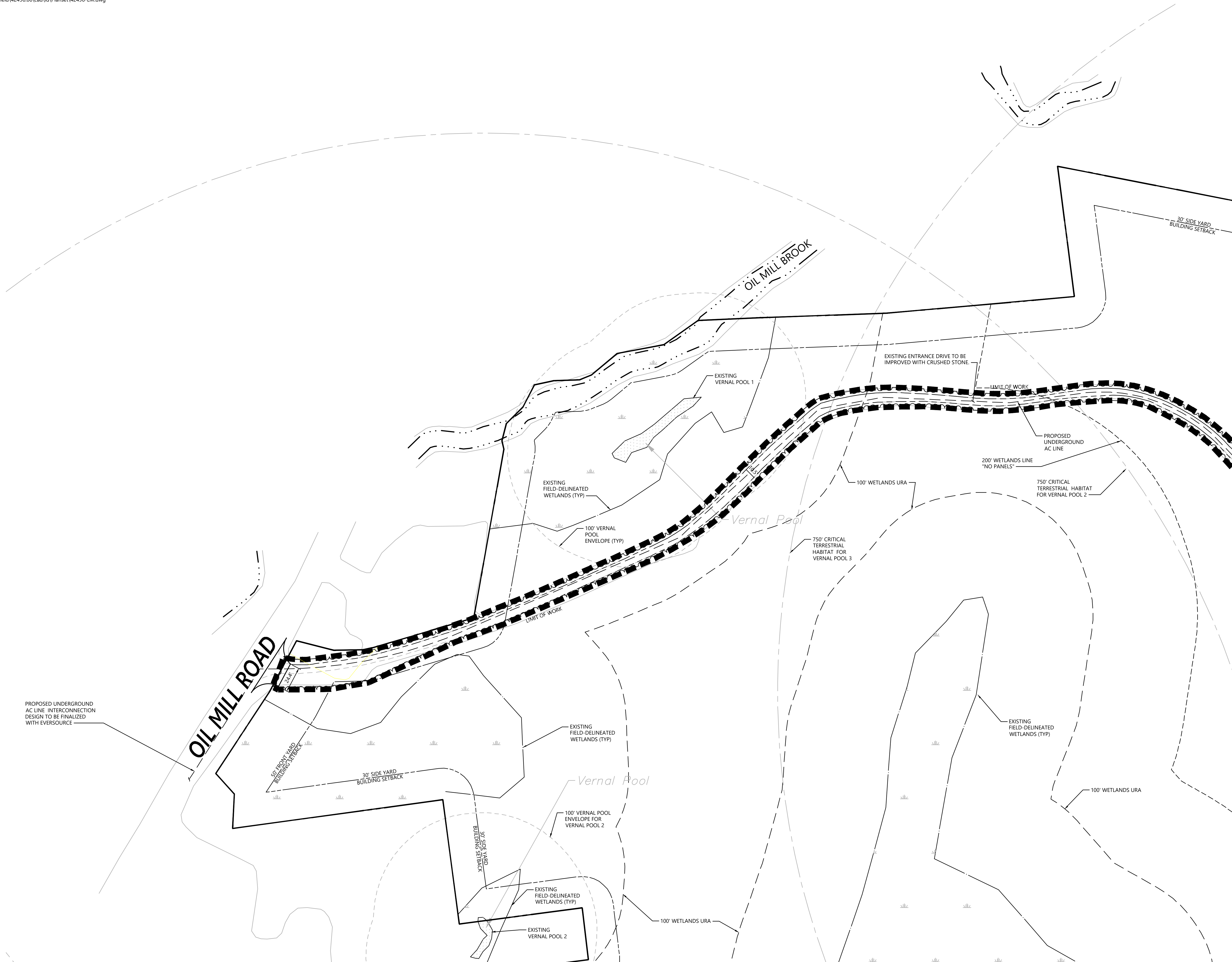
Layout and Materials Plan

Drawing Number

C-3.1

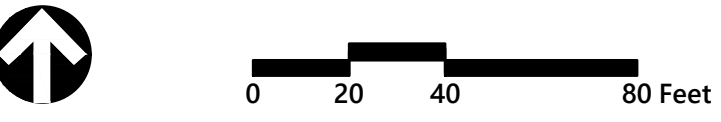
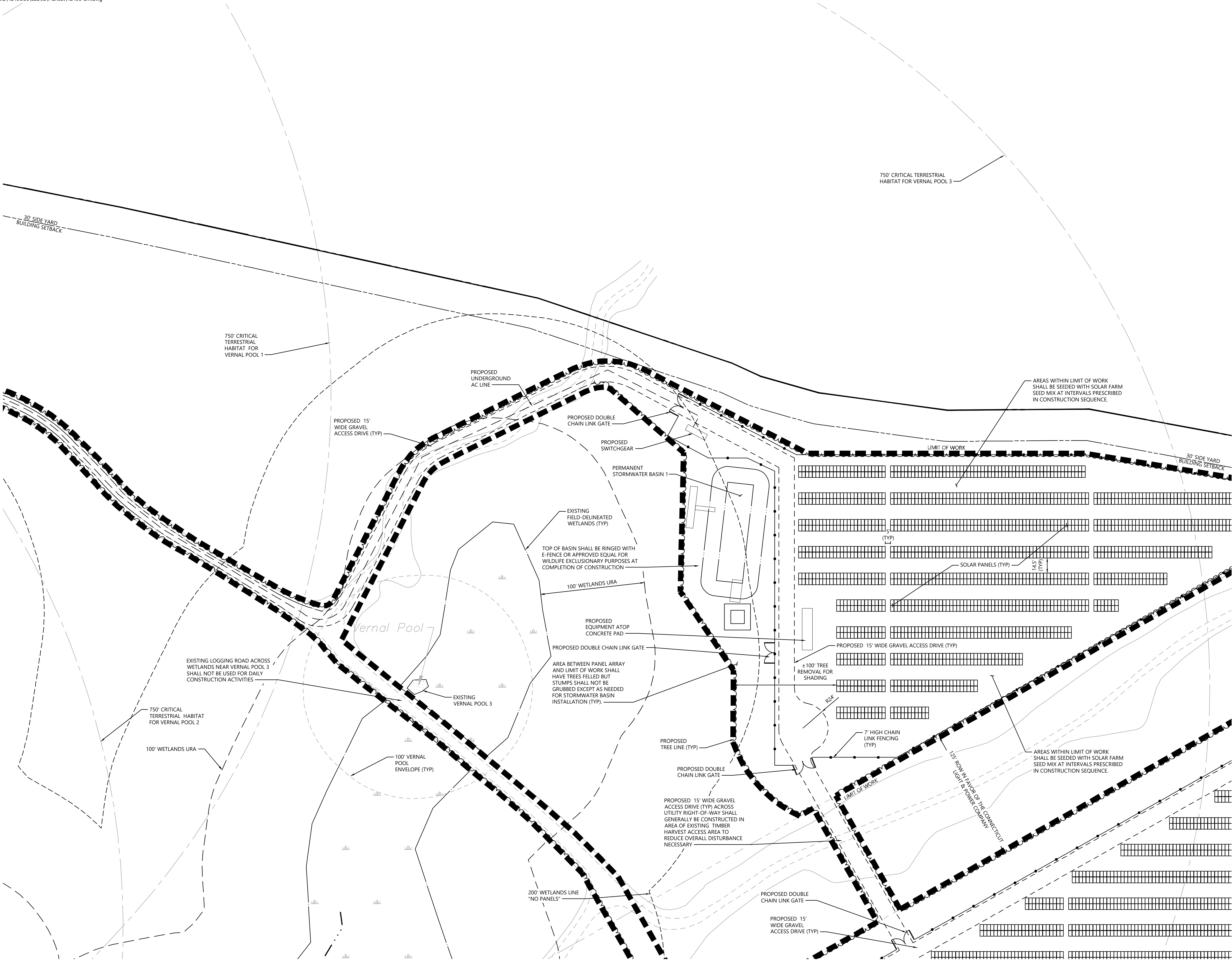
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C-3.10	C-3.11	C-3.12

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Layout and Materials Plan

Drawing Number

C-3.2

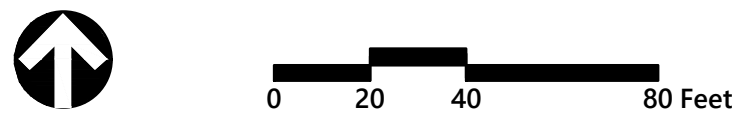
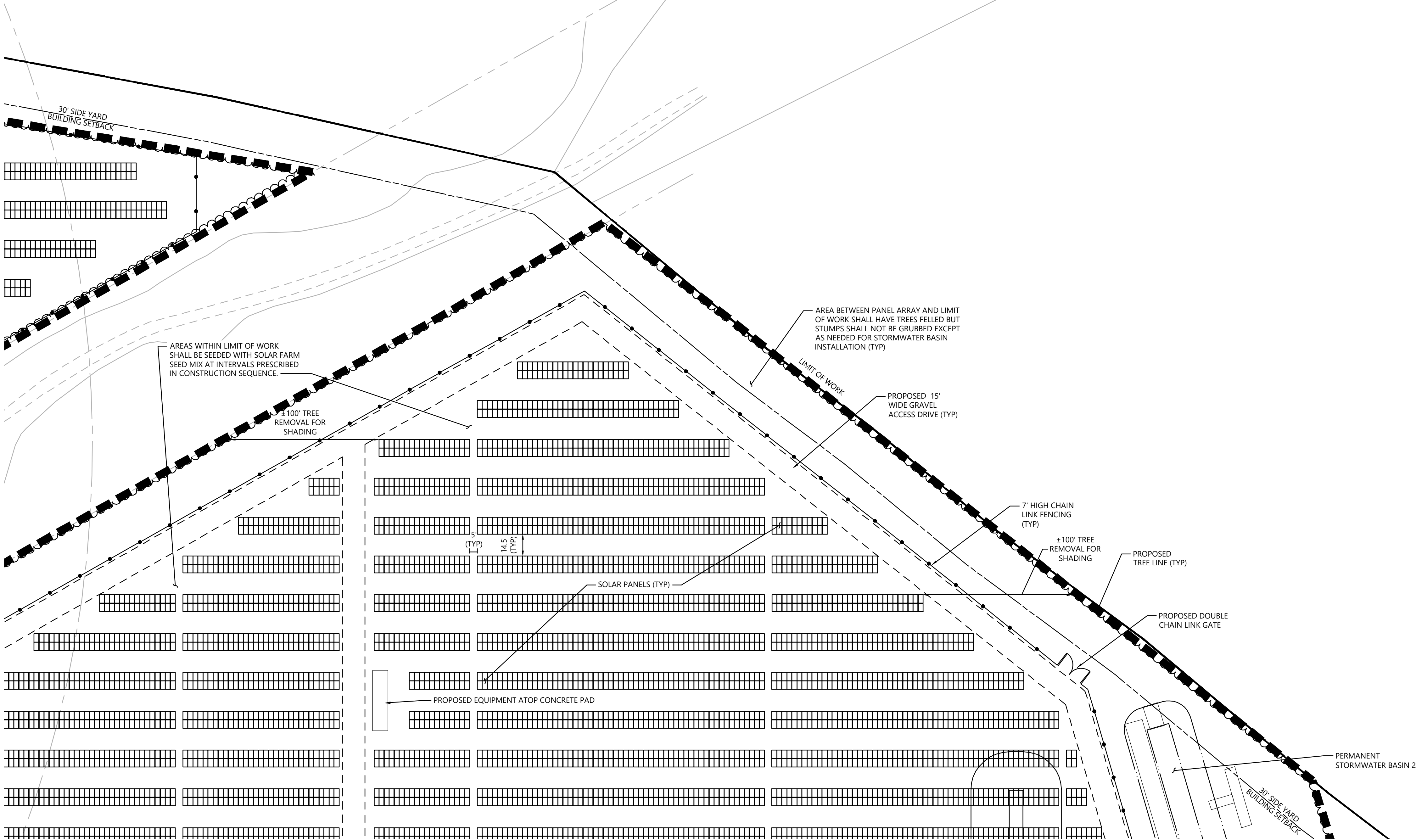
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C-3.1	C-3.2	C-3.3
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C-3.7	C-3.8	C-3.9
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Layout and Materials Plan

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C-3.3

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Project Number

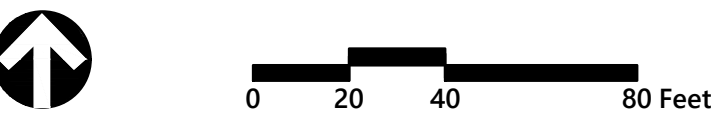
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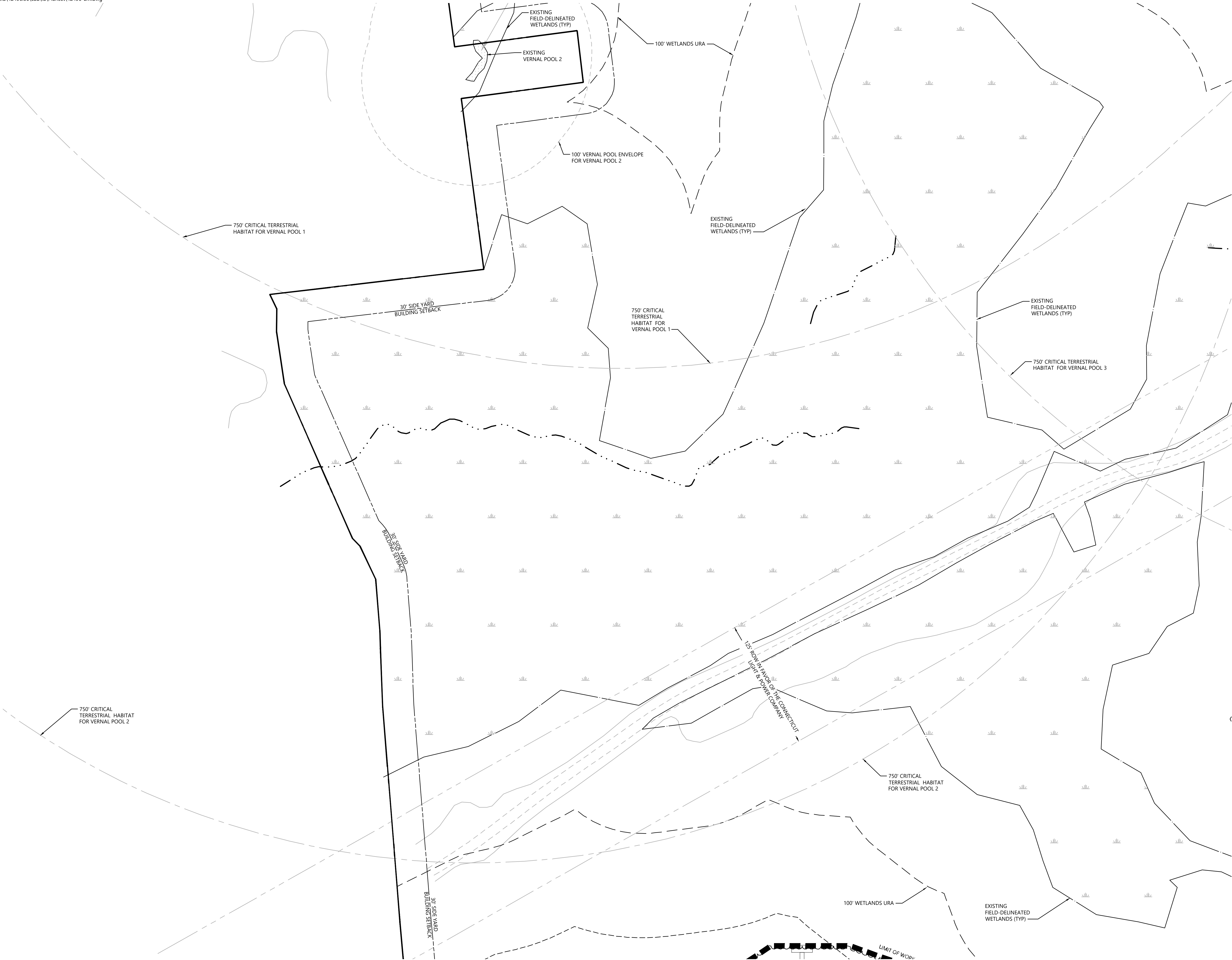
Application December 2, 2019

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Drawing Title
Layout and Materials Plan
Drawing Number

C-3.4

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42496.00








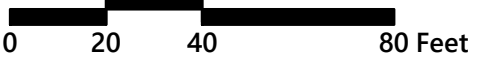
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0204080 Feet

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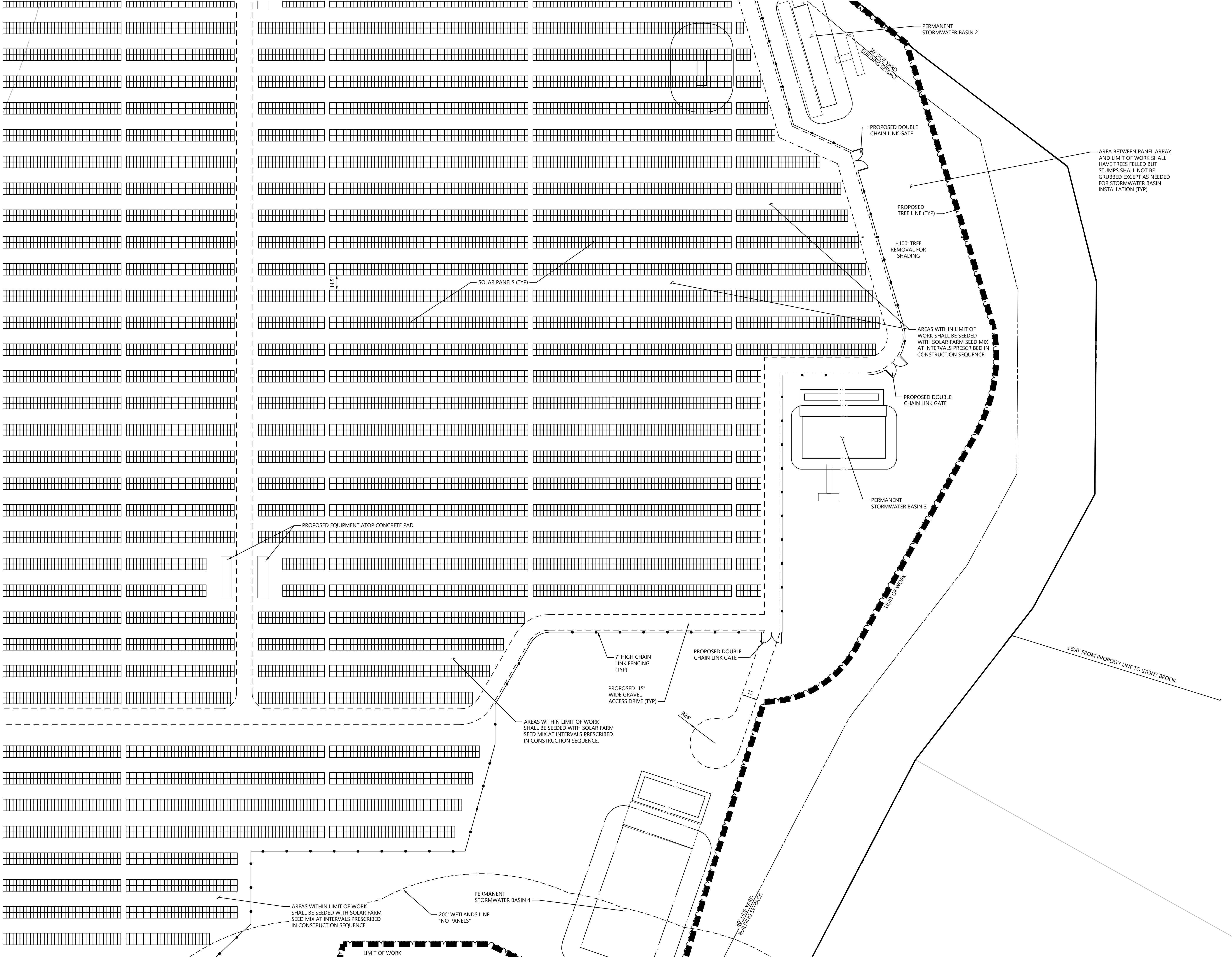
Layout and Materials Plan

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C-3.5

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42496.00



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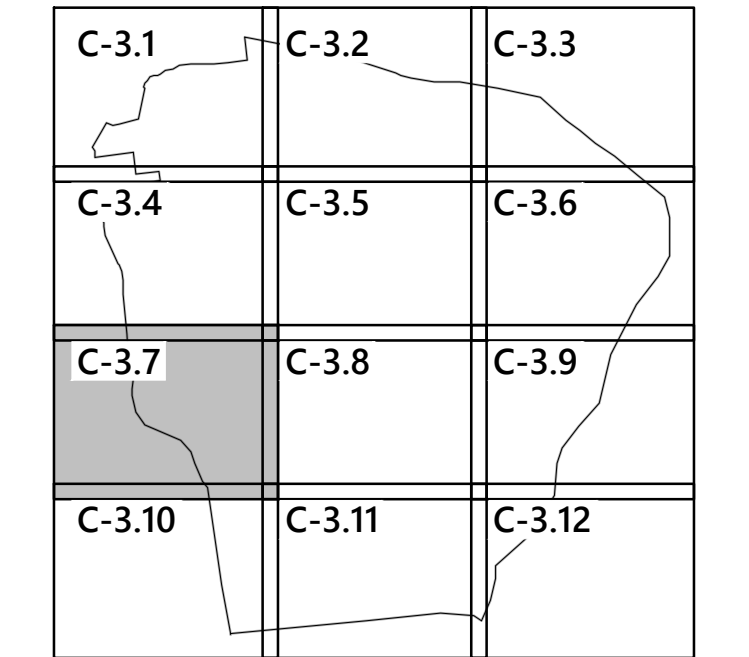
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Drawing Title

Layout and Materials Plan

Drawing Number

C-3.6



No.	Revision	Date	Appvd.
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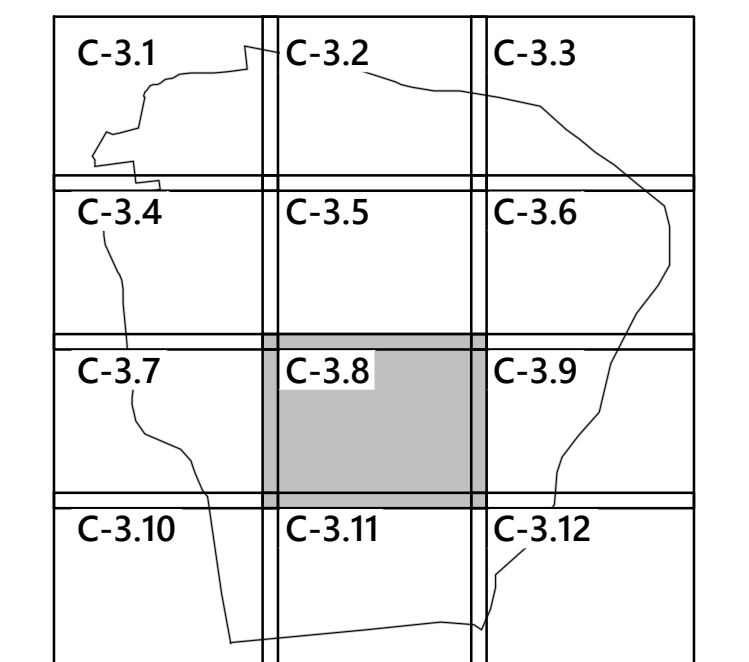
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Drawing Title

Layout and Materials Plan

C-3.7

Project Number
2496.00



0 20 40 80 Feet

No.	Revision	Date	Apprvd.
1	CTDEEP Comments	3/12/2020	SJK
2	CSC & CTDEEP Comments	7/28/2020	SJK

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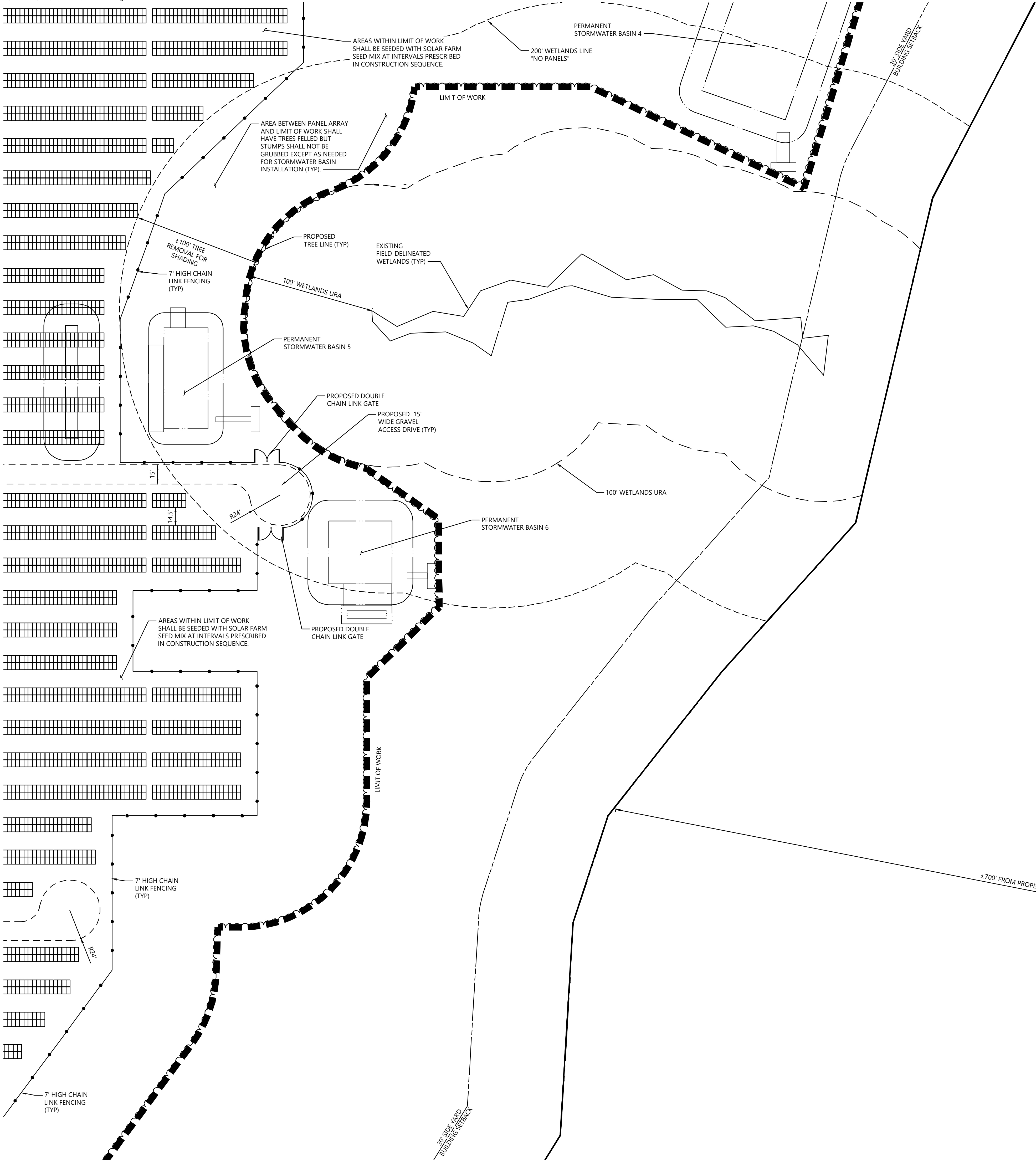
Layout and Materials Plan

Drawing Number

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C-3.1	C-3.2	C-3.3
C-3.4	C-3.5	C-3.6
C-3.7	C-3.8	C-3.9
C-3.10	C-3.11	C-3.12

Key
Not To Scale



0

20

40

80 Feet

Photovoltaic Installation
117 Oil Mill Road
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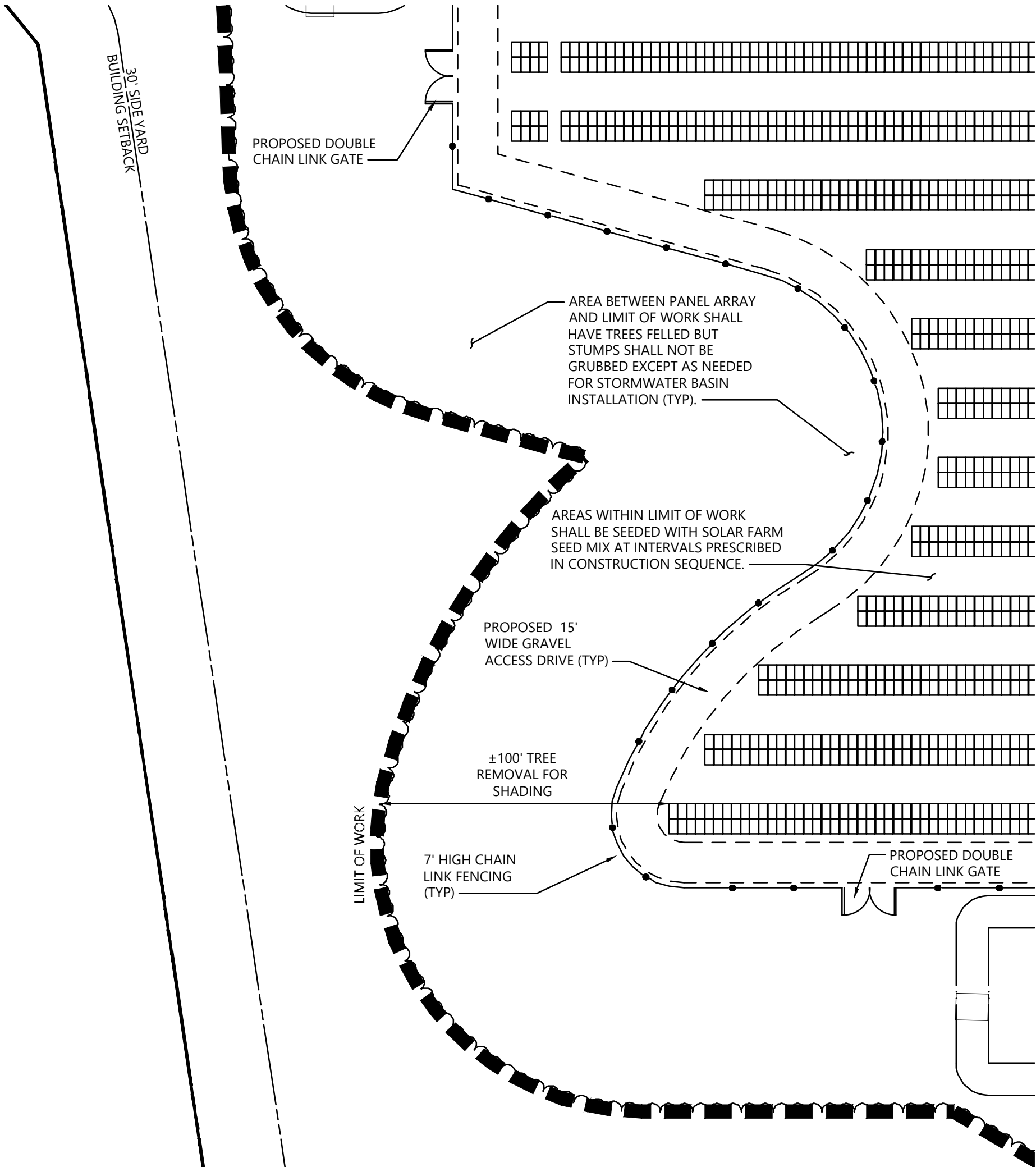
Layout and Materials Plan

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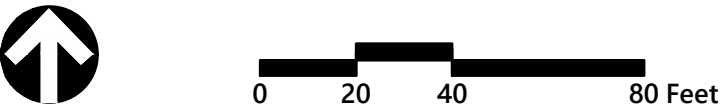


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C-3.1	C-3.2	C-3.3
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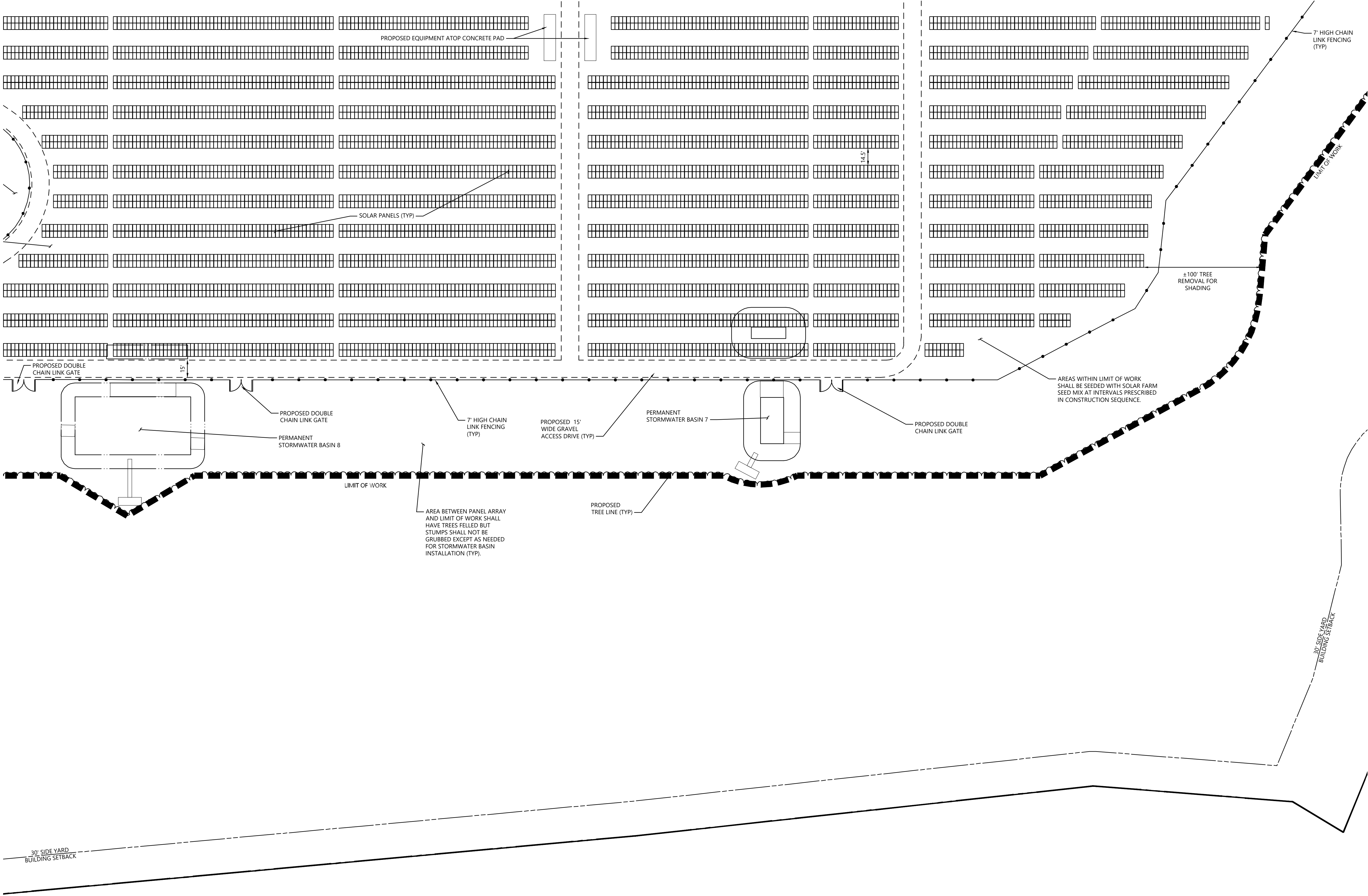
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C-3.7	C-3.8	C-3.9
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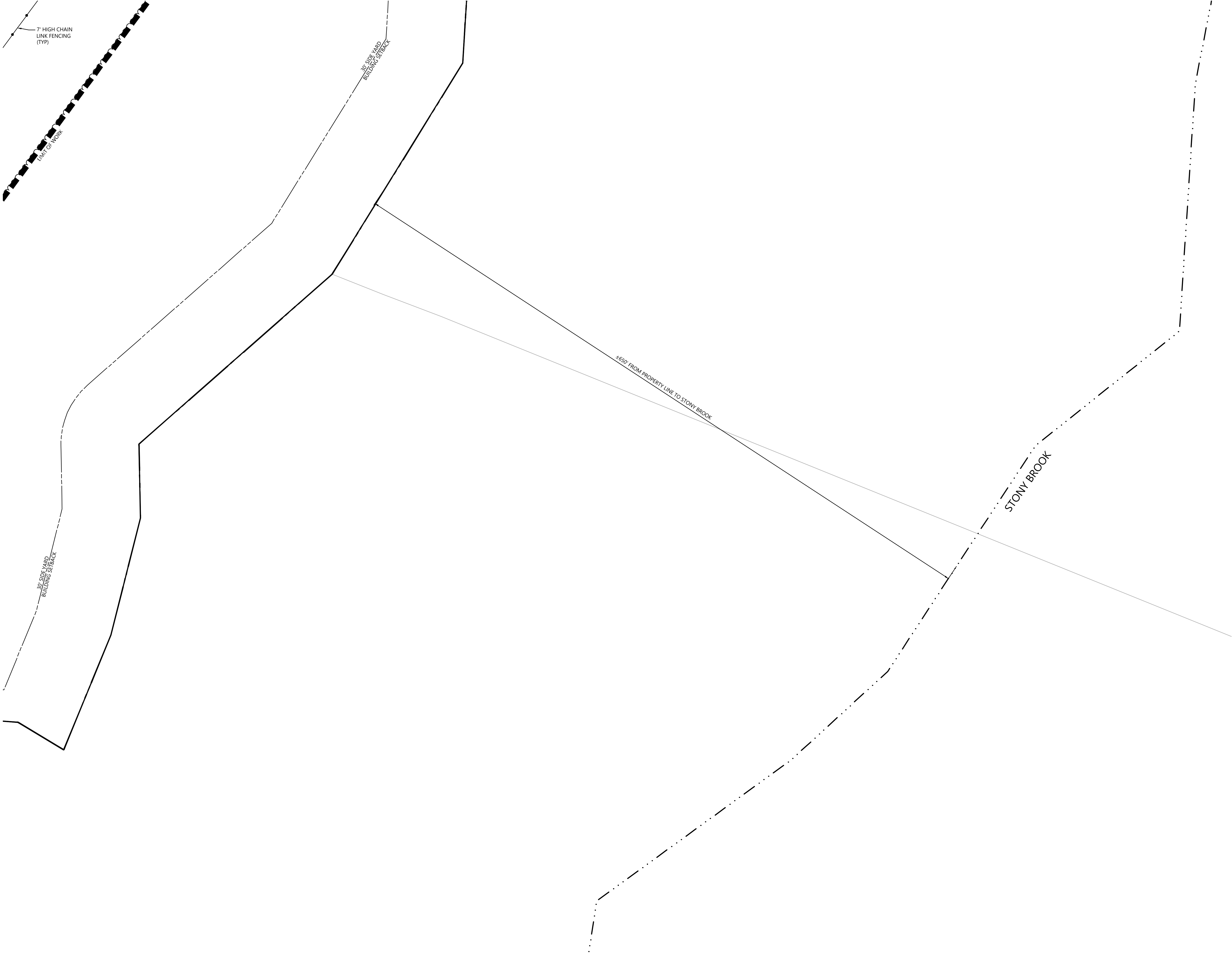
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C-3.7	C-3.8	C-3.9
C-3.10	C-3.11	C-3.12

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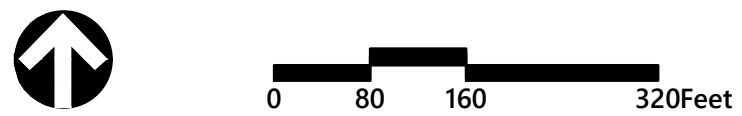
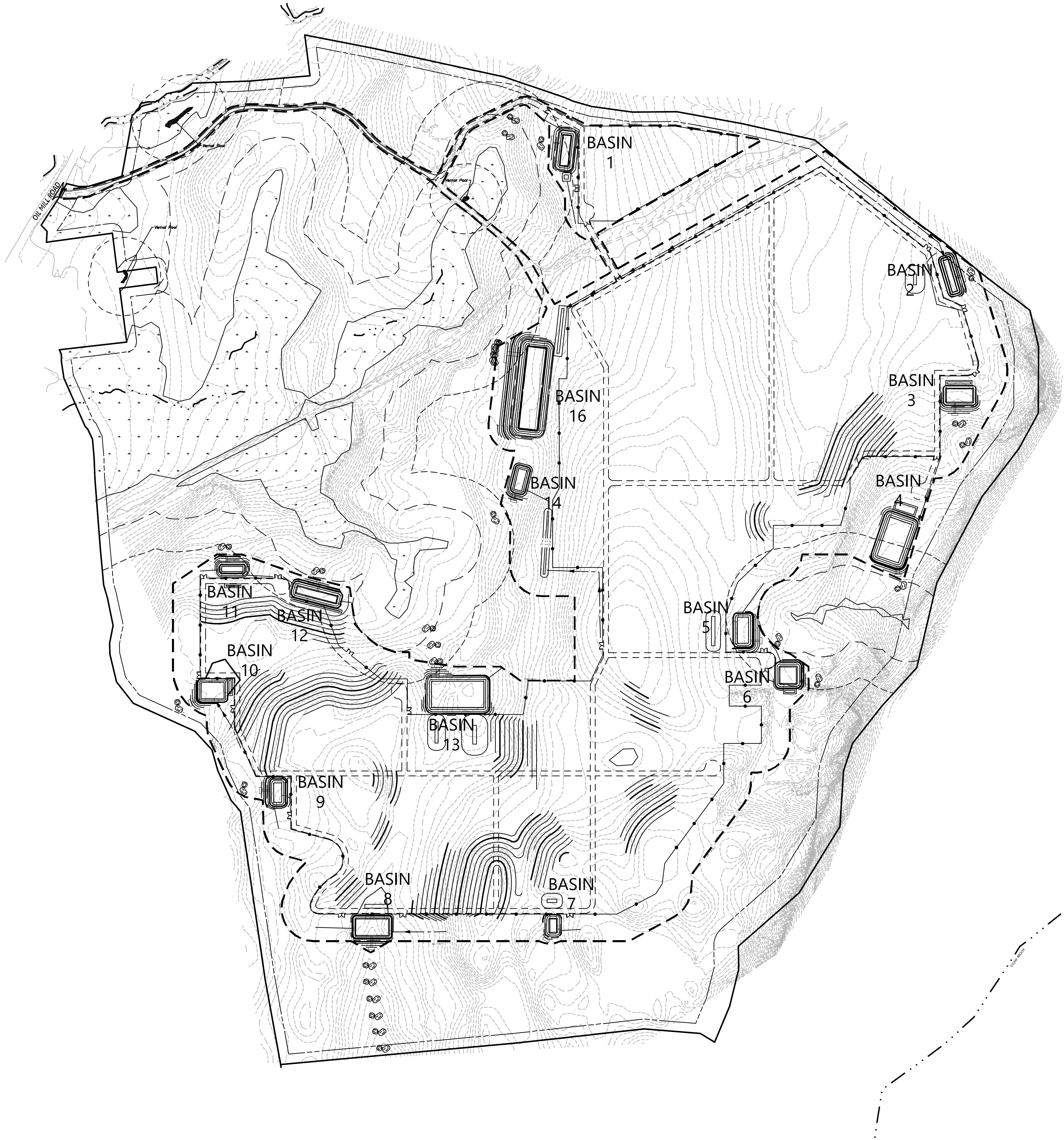
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C-4.10	C-4.11	C-4.12

Key
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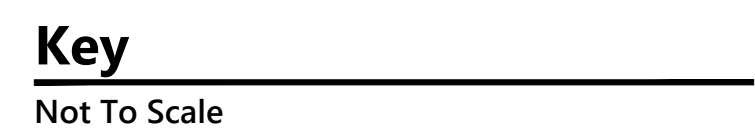
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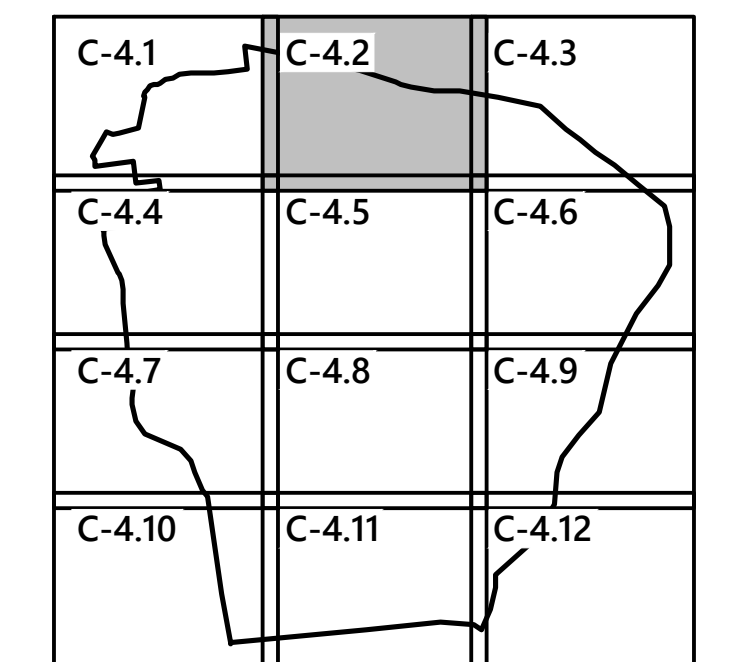
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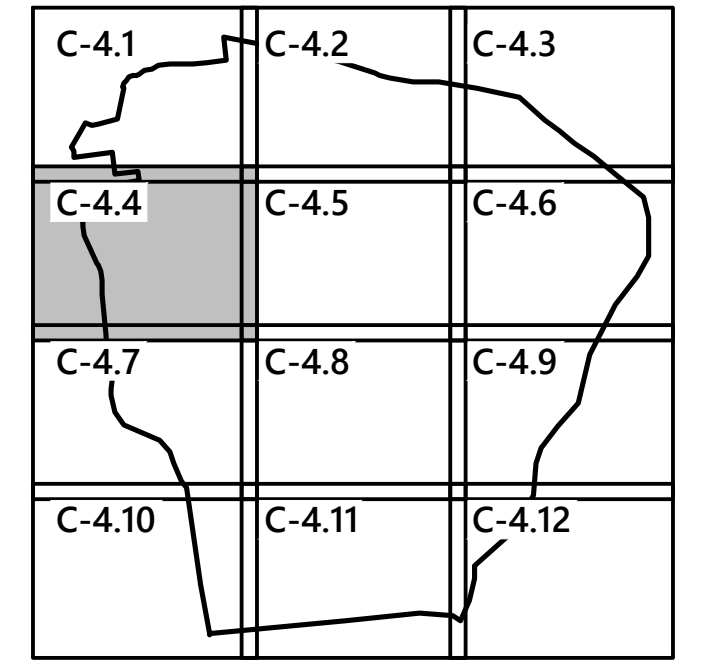
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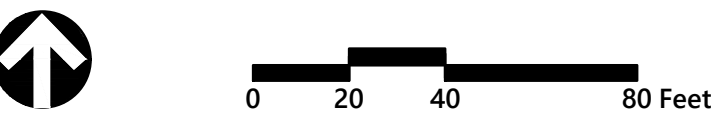
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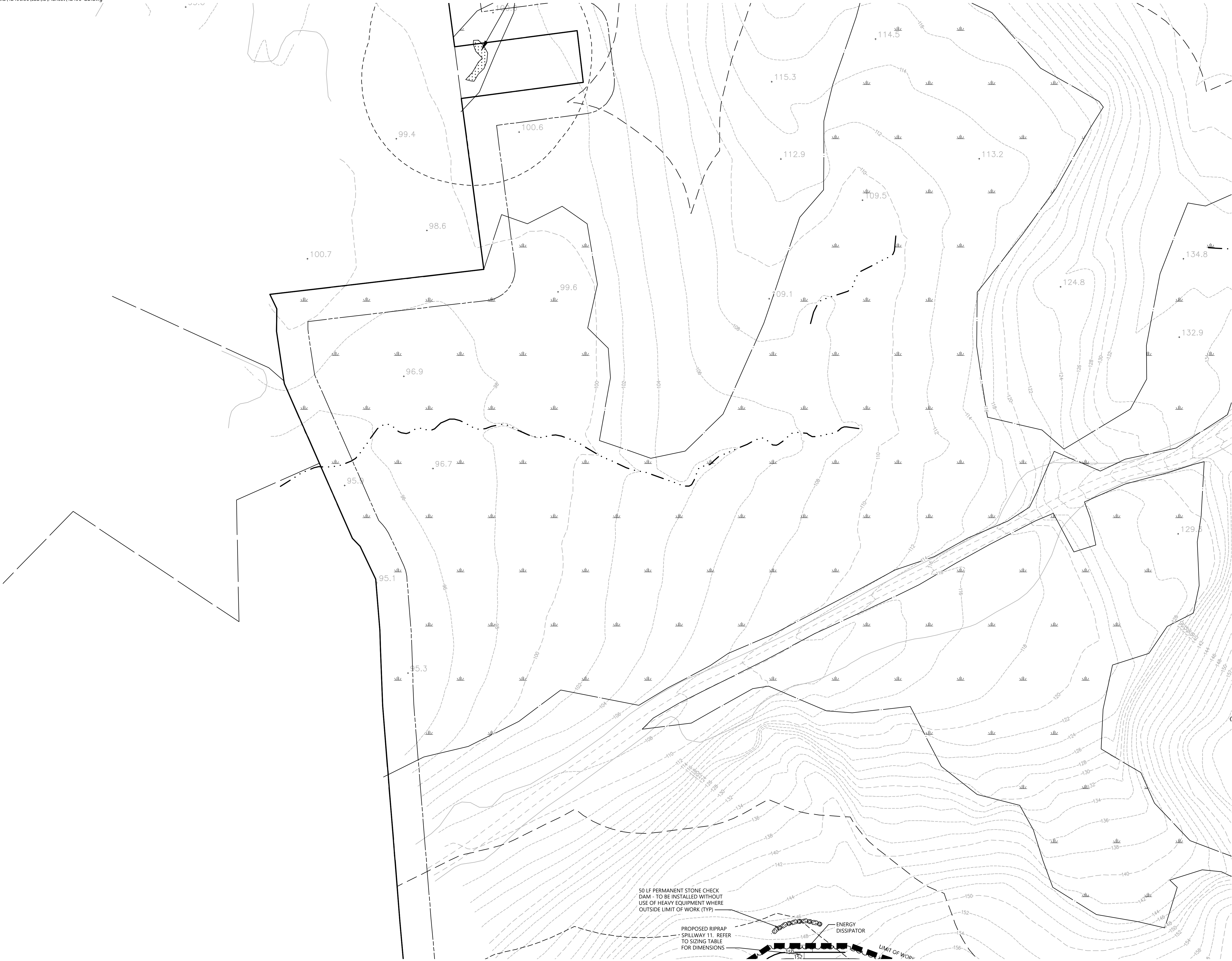
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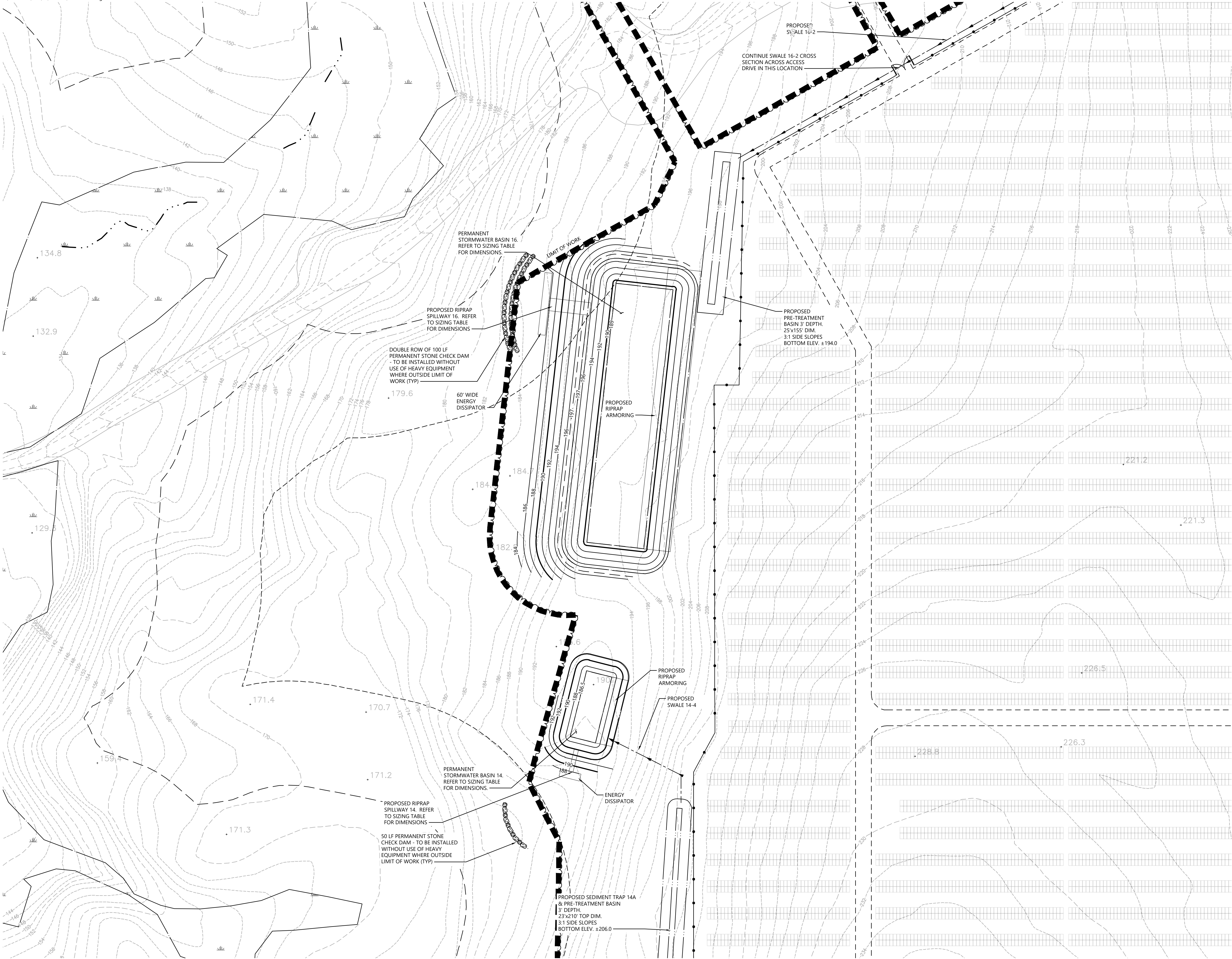
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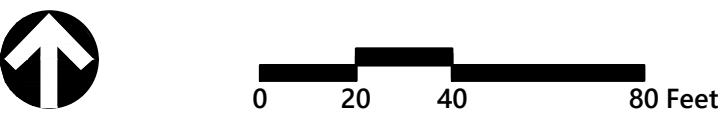


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Drainage Plan**

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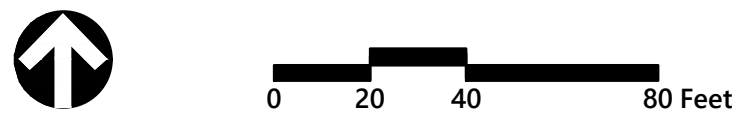
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C-4.10	C-4.11	C-4.12

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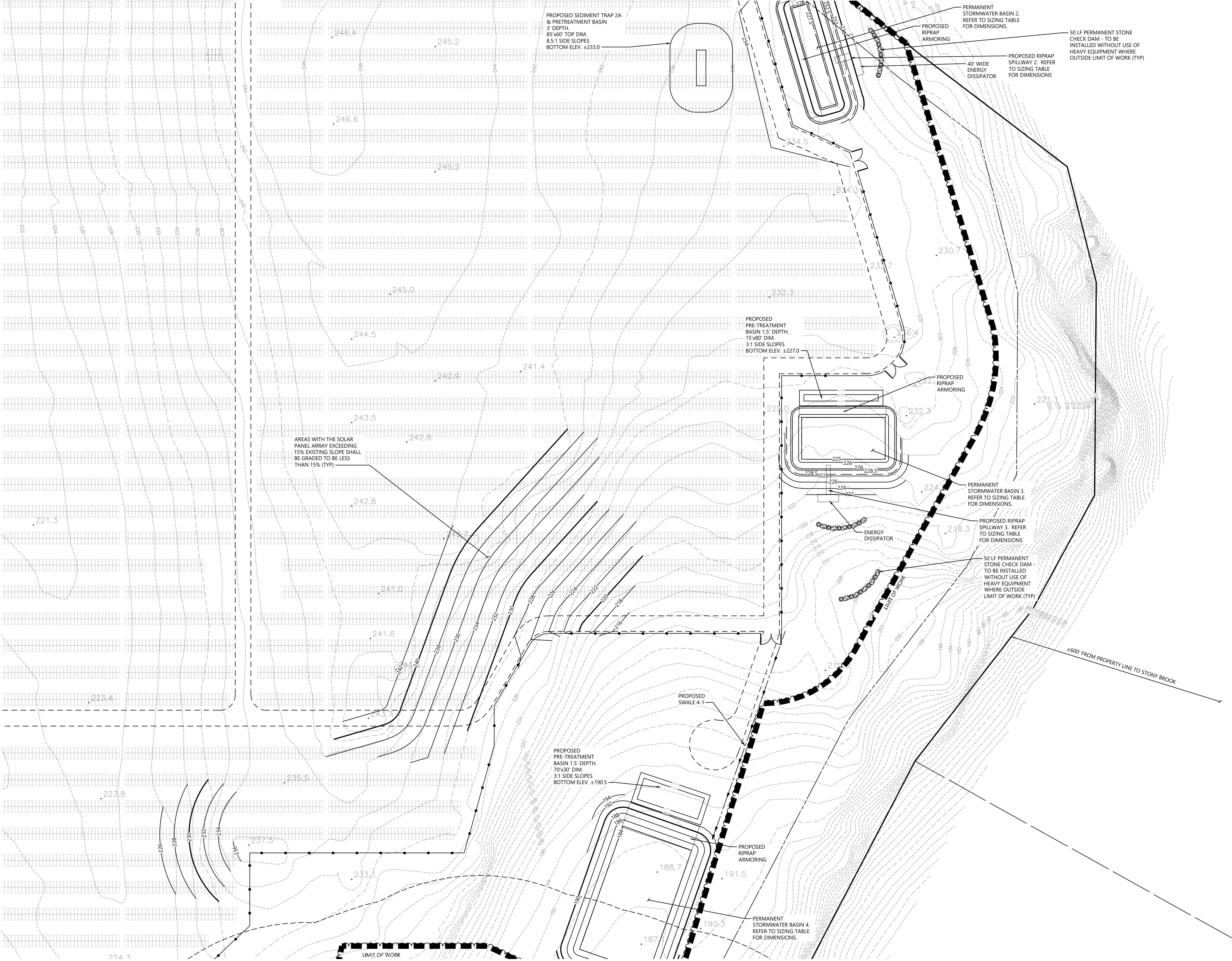
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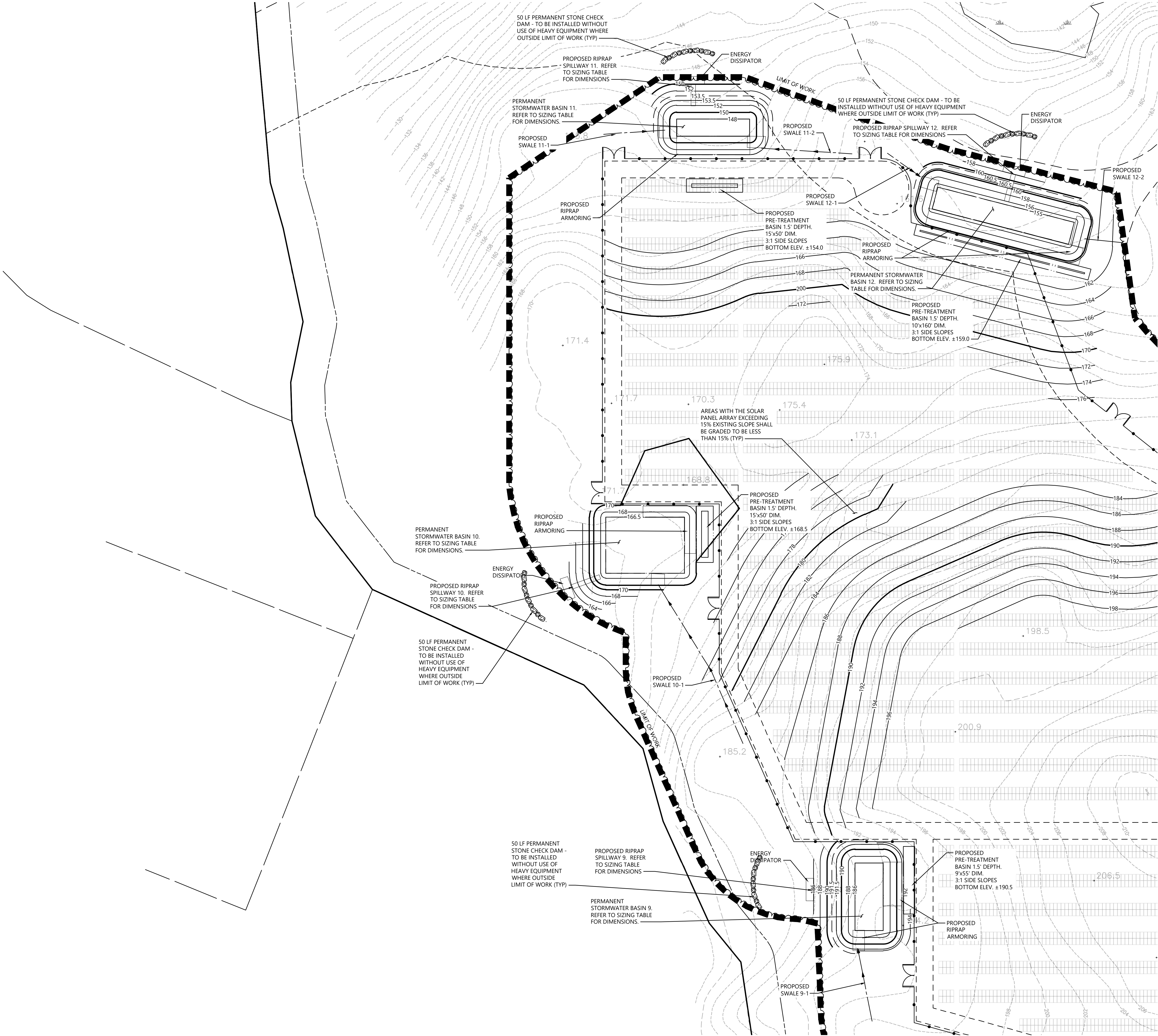
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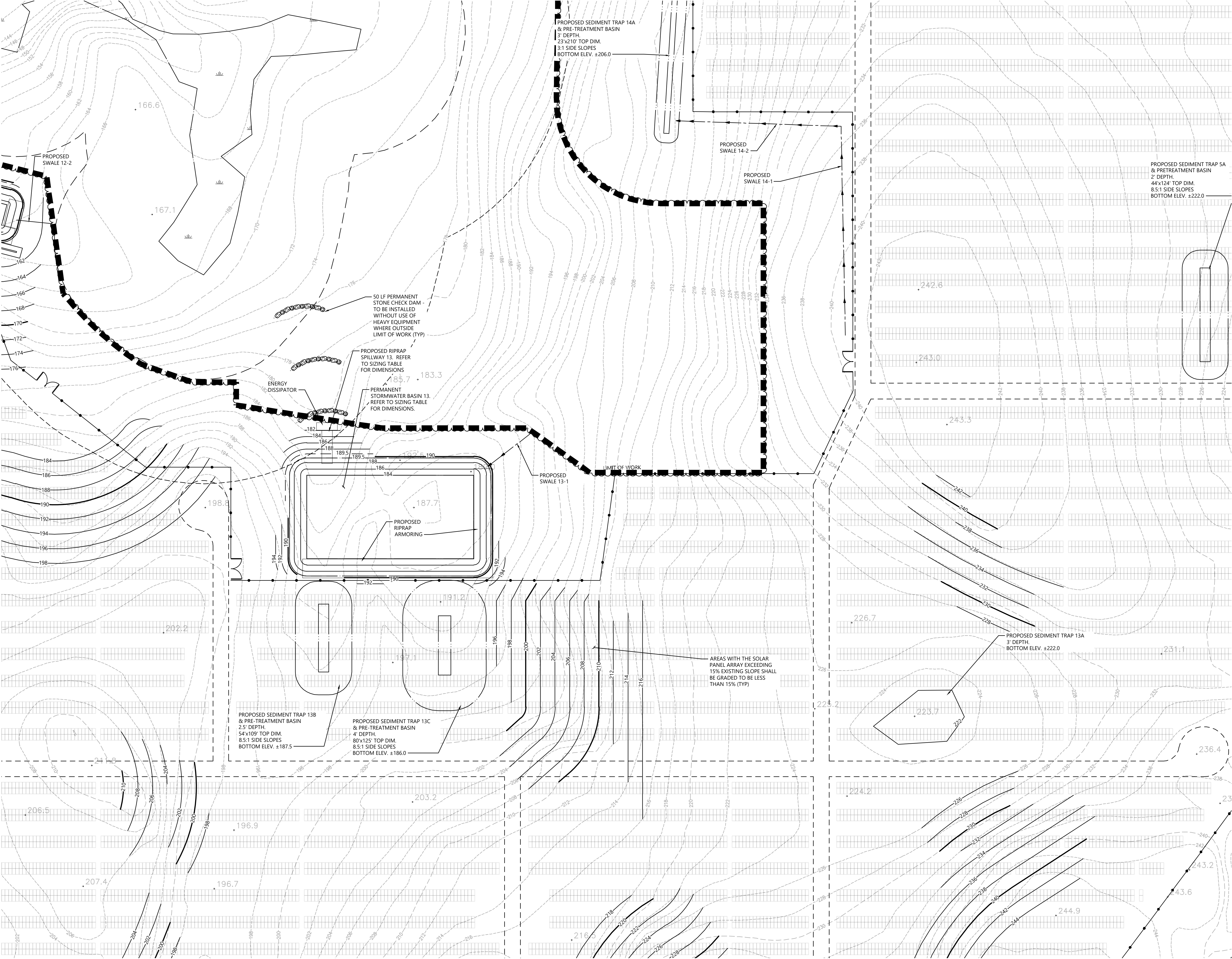
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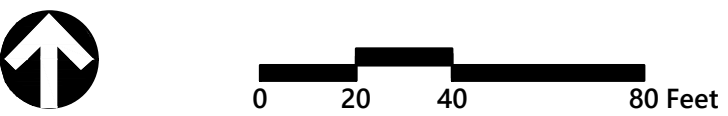
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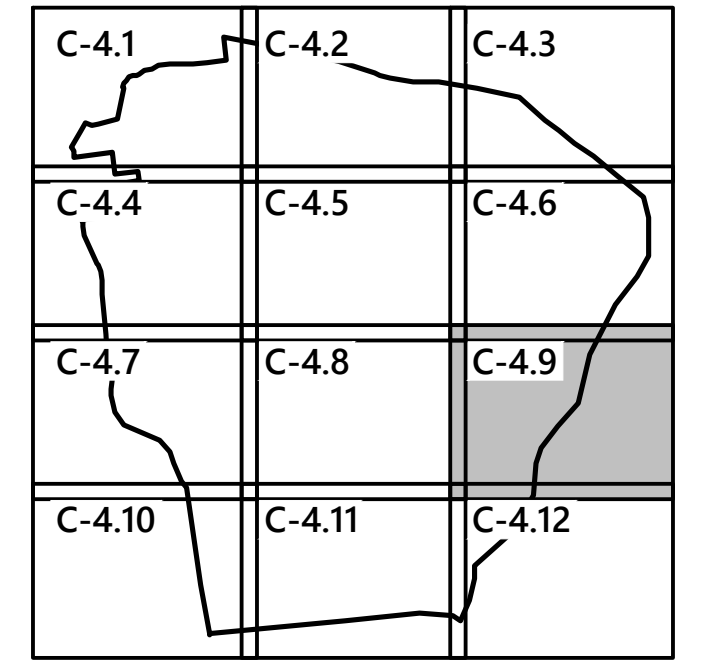
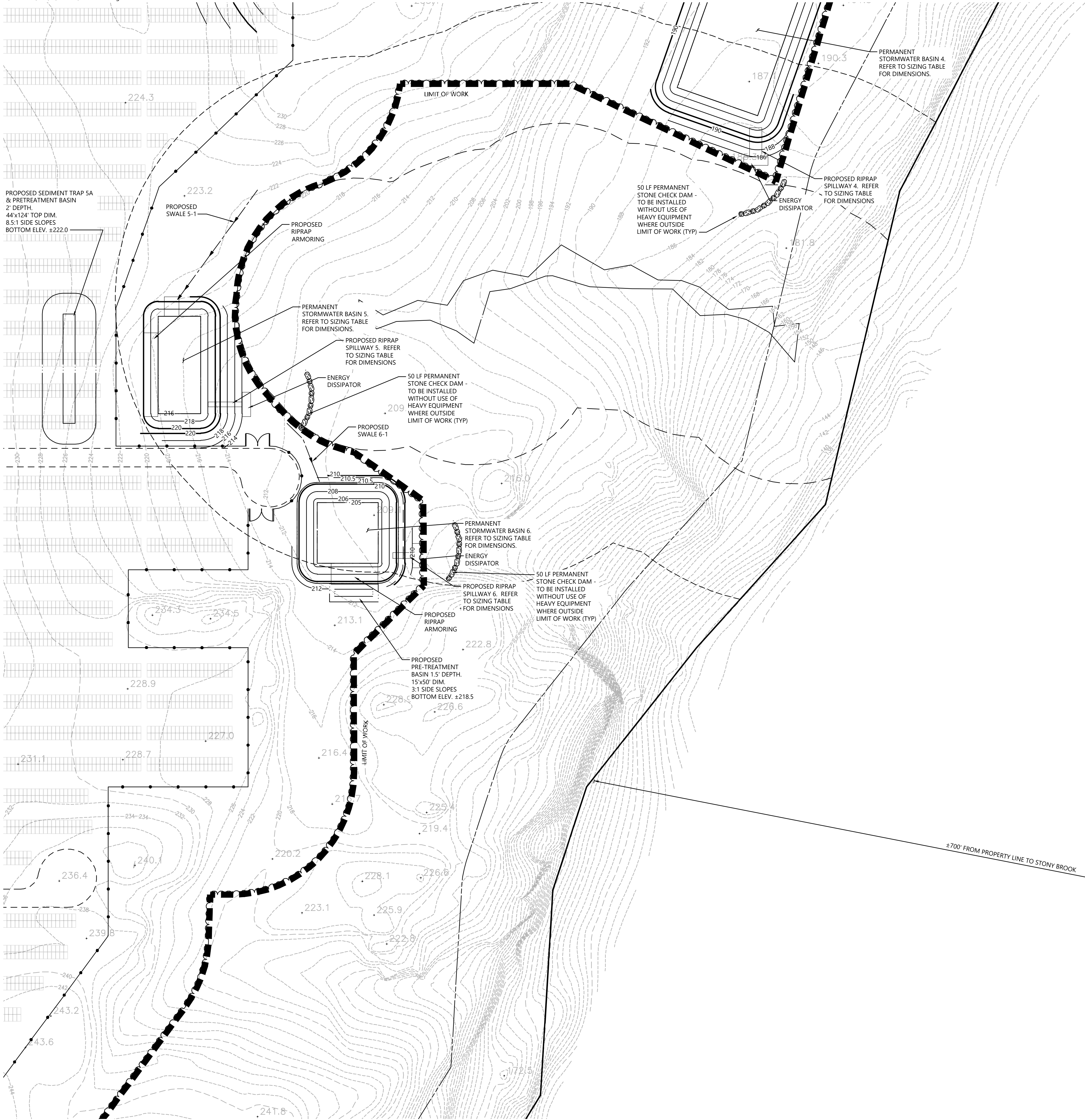
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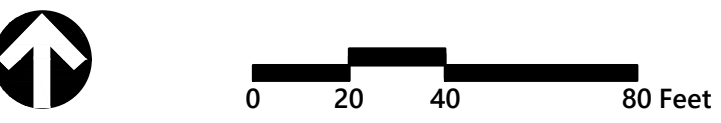
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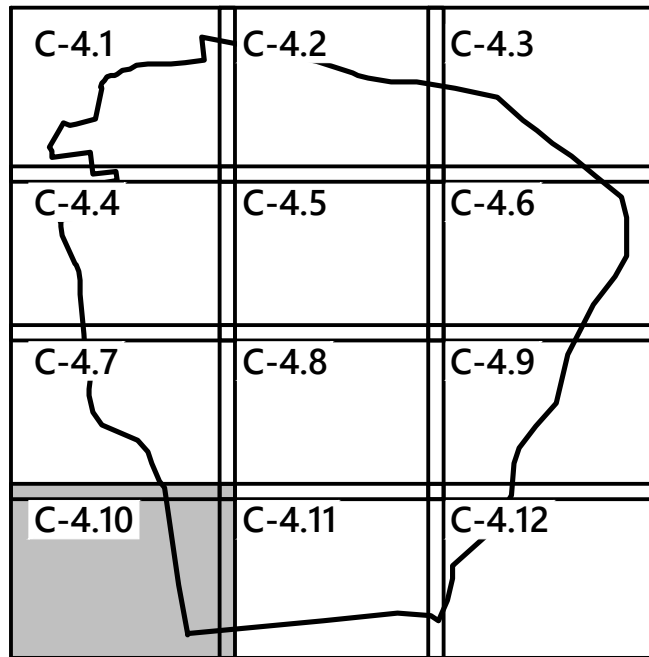
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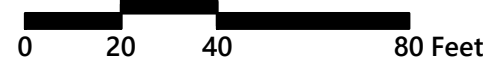


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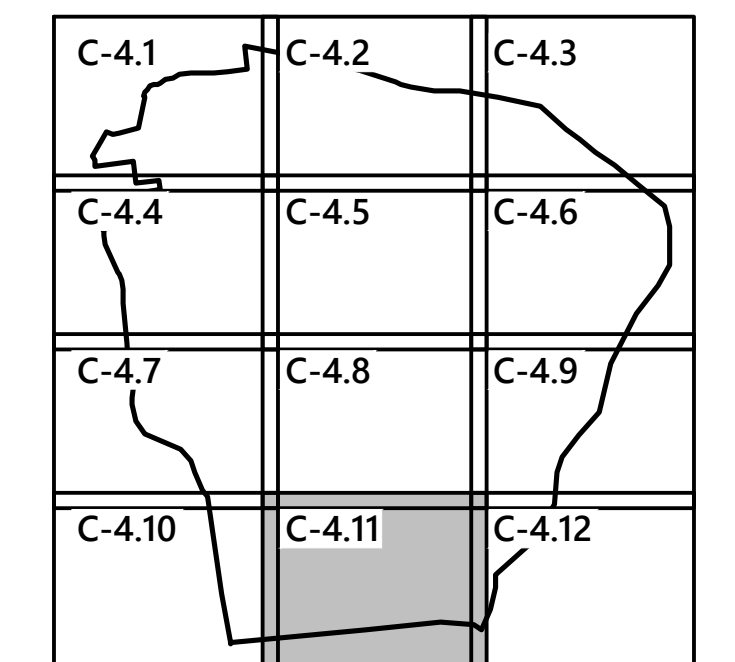
Grading and Drainage Plan

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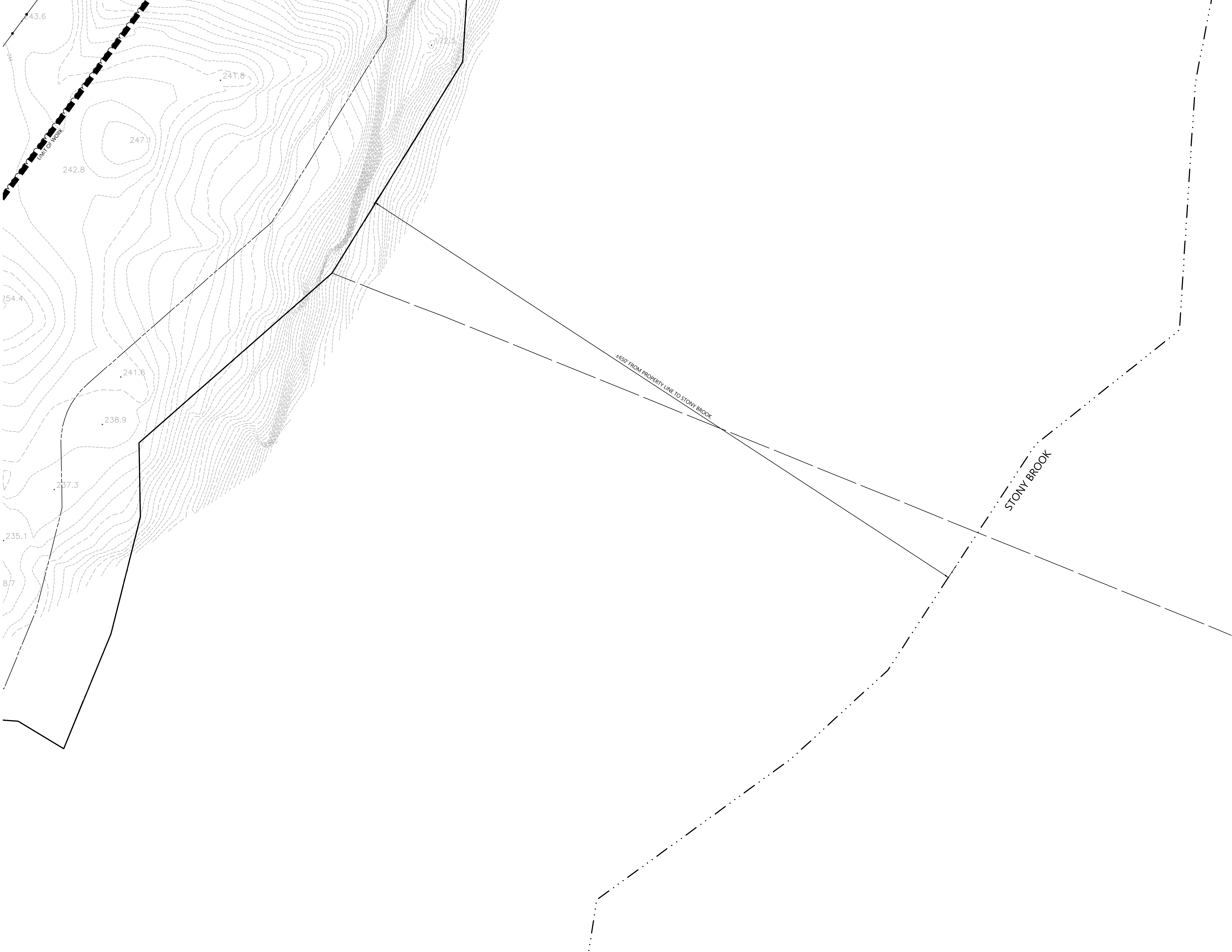
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C-4.7	C-4.8	C-4.9
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CONSTRUCTION SEQUENCING

- ALL CONSTRUCTION ACTIVITIES ARE EXPECTED TO BEGIN IN THE SUMMER/FALL OF 2020 AND BE COMPLETED BY THE END OF 2021. THE GENERAL CONSTRUCTION NOTES ARE AS FOLLOWS:
1. THE SITE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT ROADS/HIGHWAYS AND THEIR DRAINAGE SYSTEM, NEIGHBORING PROPERTIES, WETLANDS AND REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT. DESIGNATED ACCESS DRIVES MUST BE USED TO THE MAXIMUM EXTENTS POSSIBLE. IT IS REQUIRED THAT THE SITE CONTRACTOR PERFORM A DAILY INSPECTION OF ALL EROSION AND SEDIMENT CONTROL MEASURES EMPLOYED AT THE SITE.
 2. A CTDEEP-APPROVED QUALIFIED INSPECTOR SHALL BE ASSIGNED TO BE RESPONSIBLE FOR PERFORMING INSPECTIONS AND PREPARING REPORTS IN ACCORDANCE WITH SECTION 5(B)(4)(B) OF THE CONSTRUCTION GENERAL PERMIT. THESE INSPECTIONS SHALL TAKE PLACE WEEKLY, AT A MINIMUM, AND SHALL BE REQUIRED WITHIN 24 HOURS OF A RAINFALL EVENT EXCEEDING 0.5 INCHES. IT IS ALSO ANTICIPATED THAT REPRESENTATIVES FROM CTDEEP AND/OR THE STATE CONSERVATION DISTRICT WILL PERFORM PERIODIC INSPECTIONS.
 3. ENGINEER OF RECORD SHALL PERFORM THREE (3) MONTHLY PLAN IMPLEMENTATION INSPECTIONS WITHIN THE FIRST 90 DAYS OF CONSTRUCTION ACTIVITY, AS REQUIRED BY CONNECTICUT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION.
 4. THROUGHOUT THE COURSE OF THE CONSTRUCTION PROJECT, ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE WARRANTED AT THE DISCRETION OF THE QUALIFIED INSPECTOR AND/OR DESIGN ENGINEER. THESE IMPROVEMENTS MUST BE IMPLEMENTED IN A TIMELY FASHION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONSTRUCTION GENERAL PERMIT. ADDITIONALLY, AREAS OF PROPOSED COMPACTED NATIVE SOIL ROADS SHALL BE CONVERTED TO STABLE GRAVEL ROADS IF/AS DETERMINED BY THE QUALIFIED INSPECTOR OR ENGINEER OF RECORD.
 5. PRIOR TO CONSTRUCTION, THE APPLICANT SHALL PROVIDE THE TOWN OF WATERFORD WITH THE NAME OF CONTACT AND 24-HOUR CONTACT INFORMATION.
 6. CONTRACTOR SHALL ADHERE TO 2002 CONNECTICUT GUIDELINES FOR EROSION AND SEDIMENT CONTROL, AS AMENDED.
 7. THE CONTRACTOR SHALL FLAG THE LIMITS OF CLEARING NECESSARY TO FACILITATE THE PRE-CONSTRUCTION MEETING.
 8. THE CONTRACTOR SHALL HOLD PRE-CONSTRUCTION MEETING(S). ATTENDEES SHALL INCLUDE, BUT NOT BE LIMITED TO, REPRESENTATIVES OF THE GENERAL CONTRACTOR, SITE CONTRACTOR, CTDEEP, TOWN OF WATERFORD, ENGINEER OF RECORD, AND QUALIFIED SWPPP INSPECTOR.
 9. THE CONTRACTOR SHALL CONTACT CALL-BEFORE-YOU-DIG (1-800-922-4455) PRIOR TO ENGAGING IN ANY EXCAVATION ACTIVITIES AT THE SITE.
 10. THE CONTRACTOR SHALL NOTIFY THE TOWN OF WATERFORD AGENT, ZONING ENFORCEMENT OFFICER, AND ENGINEERING DEPARTMENT, 48 HOURS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY.
 11. NO CONSTRUCTION OR SITE IMPROVEMENTS MAY BEGIN UNTIL THE PROPER EROSION CONTROL MEASURES SERVING THE AREA TO BE DISTURBED ARE IN PLACE.
 12. ANTICIPATED WORK HOURS WILL BE BETWEEN 6:30 AM AND 5:00 PM.
 13. HIGH FLOTATION TIRE EQUIPMENT SHALL BE USED TO THE MAXIMUM EXTENTS PRACTICABLE IN LIEU OF TRACK CONSTRUCTION EQUIPMENT IN AN EFFORT TO AVOID COMPACTION OF THE NATIVE SOILS.

PRE-CONSTRUCTION SITE PROTECTION SEQUENCE (2020)

1. INSTALL STABILIZED VEHICLE CONSTRUCTION EXIT AT THE EXISTING ROAD INTERSECTING WITH OIL MILL ROAD.
2. SURVEY AND MARK ALL WOODLAND CLEARING LIMITS.
3. MARK TREES TO BE FELLED WITHIN 10 FEET OF CLEARING LIMITS AND INSTALL TREE PROTECTION FOR TREES TO BE PRESERVED WITHIN 10 FEET OF CLEARING LIMITS.
4. FIELD SURVEY AND MARK BOUNDARY BETWEEN CLEARING LIMITS AND GRUBBING LIMITS.
5. THE USE OF A TUB GRINDER IS RECOMMENDED FOR THE MULCHING OF FELLED TREES.
6. AS TREES ARE CLEARED AND GRUBBED, GRIND TOPS AND ROOT BALLS IN TUB GRINDER TO CREATE MATERIAL FOR WOOD CHIP MULCH BERM.
7. ACCESS ROADS SHALL BE DESIGNATED AS EARLY AS FEASIBLE AND USED PRIMARILY FOR CONSTRUCTION TRAFFIC.
8. AS MATERIAL IS PRODUCED, INSTALL MULCH BERM AT THE LIMIT OF DISTURBANCE GENERALLY IN AREAS OF CLEARED FOREST. MULCH BERM HAS NOMINAL DIMENSIONS OF 1.5 TO 2 FEET HIGH BY 4-FOOT WIDE.
9. IMMEDIATELY INSIDE THE PERIMETER MULCH BERM, INSTALL ENTRENCHED SILT FENCE FOLLOWING STANDARDS OF THE 2002 CONNECTICUT GUIDELINES FOR EROSION AND SEDIMENT CONTROL. MULCH BERM AND PERIMETER SILT FENCE SHALL BE MAINTAINED IN PERPETUITY UNTIL COMPLETION OF CONSTRUCTION. NO WORK SHALL BE ALLOWED OUTSIDE OF THESE LIMITS.
10. CONCURRENT WITH ITEMS 2 THROUGH 9 ABOVE, THE CONTRACTOR SHALL ADDRESS ONGOING EROSION PROBLEMS USING TEMPORARY DIVERSIONS AND FILLING AND GRADING GULLIES. TRACK GULLIES UP AND DOWN SLOPE AND HYDROSEED WITH A THERMALLY-TREATED WOOD BONDED FIBER MATRIX (BFM) MULCH WITH TACKIFIER. A STAPLED BIODEGRADABLE EROSION CONTROL BLANKET WITHOUT MONOFILAMENT MESH IS AN ACCEPTABLE ALTERNATIVE FOR HYDROSEED AND BFM.
11. INSTALL TEMPORARY SEDIMENT TRAPS IN ACCORDANCE WITH THE APPROVED SITE-SPECIFIC SWPCP AND CT GUIDELINES. THE ENGINEER OF RECORD SHALL INSPECT FEATURES TO CONFIRM REQUIRED STORAGE CAPACITIES ARE PROVIDED AND THAT OUTLETS AND/OR SPILLWAYS ARE CONSTRUCTED CORRECTLY. DISCHARGE AREAS BELOW OUTFALLS MUST BE INSPECTED TO CONFIRM FLOW WILL BE OVER STABLE GROUND AND SHEET FLOW IS ENCOURAGED. IF DISTURBED SOILS ARE PRESENT, THE ENGINEER OF RECORD TO PROVIDE CORRECT MEASURES TO ADDRESS CONDITION.
12. SEED AND PROTECT DISTURBED SOILS AROUND SEDIMENT TRAPS AND BASINS WITHIN 72 HOURS OF COMPLETION. SECURE SEED WITH A THERMALLY-TREATED BFM APPLIED FOLLOWING MANUFACTURER'S SPECIFICATIONS FOR USE AT SPECIFIED APPLICATION RATES. AN ANIONIC POLYACRYLAMIDE PRODUCT MAY BE INCLUDED WITH THE TACKIFIER TO PROMOTE SOIL STABILITY. ALL OTHER AMENDMENTS SHOULD BE PRESCRIBED BASED ON THE RESULT OF SOIL TESTS.
13. INSTALL OTHER EROSION AND SEDIMENT CONTROLS FOLLOWING THE CT GUIDELINES AND MANUFACTURER'S DIRECTIONS. DURING CONSTRUCTION, THE CONTRACTOR SHALL INSTALL MEASURES AS REQUIRED BY THE ENGINEER OF RECORD OR QUALIFIED INSPECTOR, TO PREVENT SEDIMENT-LADEN RUNOFF FROM REACHING WETLANDS OR DISCHARGING OFFSITE.
14. ESTABLISH DESIGNATED VEHICULAR TRAFFIC ACCESS ROADS (GRAVEL, OR COMPACTED NATIVE SOIL PER PLANS) THAT SHALL BE USED AS PRIMARY ACCESS. EFFORTS MUST BE MADE TO MINIMIZE VEHICULAR TRAFFICKING ACROSS NON-DESIGNATED AREAS TO THE EXTENTS POSSIBLE.
15. AREAS DISTURBED DURING THIS SEQUENCE MUST BE HYDROSEEDD AND ALLOWED TO GROW THROUGH A GROWING SEASON (SPRING, OR FALL) PRIOR TO INITIATION OF CONSTRUCTION SEQUENCE.
16. SPREADD MULCH AND FELLED BRANCHES FROM PRE-EXISTING TIMBER HARVEST ON SITE SHALL BE CLEANED AND AREAS SEEDD. MATERIAL CLEANED IN THIS WAY MAY BE REPURPOSED FOR THE USE OF WOOD CHIP MULCH BERMS ALONG THE SITE PERIMETER OR REMOVED FROM THE SITE. THE USE OF HYDROSEED COMBINED WITH TACKIFIER AND POLYACRLAMIDE (PAM) IS RECOMMENDED FOR THIS RESEEDING. THE CLEANUP AREAS SHALL BE LEFT UNDISTURBED THROUGH A FULL GROWING SEASON BEFORE INITIATION OF THE CONSTRUCTION SEQUENCE CAN TAKE PLACE.

CONSTRUCTION SEQUENCE (2021)

1. PERFORM MASS EARTHWORK ON THE SITE AND INSTALL PERIMETER FENCE TO SERVE AS CONSTRUCTION BARRIER. MASS EARTHWORK SHALL ONLY MEAN REGRADING TO MEET THE PROPOSED GRADING DEPICTED ON THE PLANS. TOPSOIL SHALL BE STRIPPED AND STOCKPILED FROM AREAS PROPOSED FOR REGRADING.
2. TOPSOIL SHALL BE REPLACED TO 3" MINIMUM DEPTH OVER REGRADED AREAS UPON COMPLETION OF MASS EARTHWORK ACTIVITIES AND AREAS WHICH WERE DISTURBED BY MASS EARTHWORK OPERATIONS SHALL BE RESEDED WITHIN 72 HOURS OF COMPLETION.
3. AREAS DISTURBED BY MASS EARTHWORK SHALL BE RESEDED WITH HYDROSEED, COMBINED WITH TACKIFIER AND PAM.
4. DRIVE PILES FOR SOLAR PANEL RACKING.
5. THE INSTALLATION OF RACKING SHALL FOLLOW THE PILE DRIVING BY ROUGHLY ONE WEEK STARTING FROM THE SAME POINT. IT IS ANTICIPATED THAT APPROXIMATELY 13 ACRES OF PILES WILL BE IN AHEAD OF RACKING ON AVERAGE.
6. RESEED AND REGRADE ALL AREAS DISTURBED BY CONSTRUCTION TRAFFIC WITHIN THE ARRAYS WHERE RACKS ARE INSTALLED AS EARLY AS POSSIBLE. RUTS AND RILLS SHALL BE SMOOTHED AND GRADED AS DISCOVERED.
7. INSTALL SOLAR PANEL MODULES IN THE RACKING. MUCH OF THIS WORK IS ANTICIPATED TO BE PERFORMED BY HAND AND LIGHT CONSTRUCTION EQUIPMENT WHICH WILL CAUSE MINIMAL DISTURBANCE COMPARED TO THE USE OF HEAVY EQUIPMENT. DESIGNATED ACCESS ROADS SHALL STILL BE USED TO THE MAXIMUM EXTENTS POSSIBLE.
8. UPON COMPLETION OF CONSTRUCTION, RE-SEED ALL DISTURBED AREAS WITHIN 72 HOURS AND PREVENT VEHICULAR TRAFFICKING OVER THESE AREAS. INSTALL FINAL LANDSCAPING.
9. THE TEMPORARY SEDIMENT TRAPS/BASINS AND THEIR ASSOCIATED DIVERSION CHANNELS MAY BE REMOVED ONCE ALL TRIBUTARY AREAS UPSTREAM OF THEM HAVE BEEN COMPLETED AND STABILIZED WITH 80 PERCENT VEGETATED COVER, AT THE DIRECTION OF THE QUALIFIED INSPECTOR AND/OR DESIGN ENGINEER.
10. AFTER SITE IS STABILIZED, AND AFTER INSPECTION BY DESIGN ENGINEER, OR OTHER OWNER'S REPRESENTATIVE, REMOVE TEMPORARY EROSION AND SEDIMENT CONTROLS. ENTIRE SITE SHALL BE CHECKED FOR AND CLEANED OF SEDIMENT AS NEEDED.

EASTERN RIBBONSNAKE NOTES:

1. A CONTRACTOR AWARENESS PROGRAM SHALL BE DEVELOPED AND IMPLEMENTED TO ENSURE THAT CONTRACTORS WORKING ON THE SITE HAVE BEEN INSTRUCTED ON THE PROPER RESPONSE IN THE EVENT THAT AN EASTERN RIBBONSNAKE IS OBSERVED IN THE WORK AREA. THE DETAILS OF THE PROGRAM SHALL BE DISCUSSED AT THE PRE-CONSTRUCTION MEETING.
2. IF ANY SNAKES ARE OBSERVED, CONSTRUCTION PERSONNEL SHALL SAFELY RELOCATE THEM TO AN AREA IMMEDIATELY OUTSIDE OF THE WORK AREA.
3. ANY SILT FENCE UTILIZED WILL BE REMOVED UPON CTDEEP STORMWATER GENERAL PERMIT NOTICE OF TERMINATION OF THE PROJECT.
4. ANY CONFIRMED EASTERN RIBBONSNAKE SIGHTINGS WILL BE REPORTED TO THE CTDEEP NATURAL DIVERSITY DATABASE WILDLIFE DIVISION.

APPROXIMATE EXTENTS
OF TIMBER HARVEST
PERFORMED BY LAND
OWNER

C-5.1	C-5.2	C-5.3
C-5.4	C-5.5	C-5.6
C-5.7	C-5.8	C-5.9
C-5.10	C-5.11	C-5.12

Key

Not To Scale



0 80 160 320Feet

Photovoltaic Installation

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Erosion and Sediment
Control Plan - Overall

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C-5.1	C-5.2	C-5.3
C-5.4	C-5.5	C-5.6
C-5.7	C-5.8	C-5.9
C-5.10	C-5.11	C-5.12

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Control Plan

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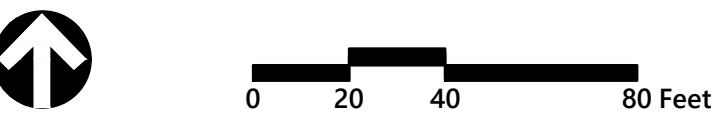
Project Number
42496.00



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C-5.10	C-5.11	C-5.12

Key

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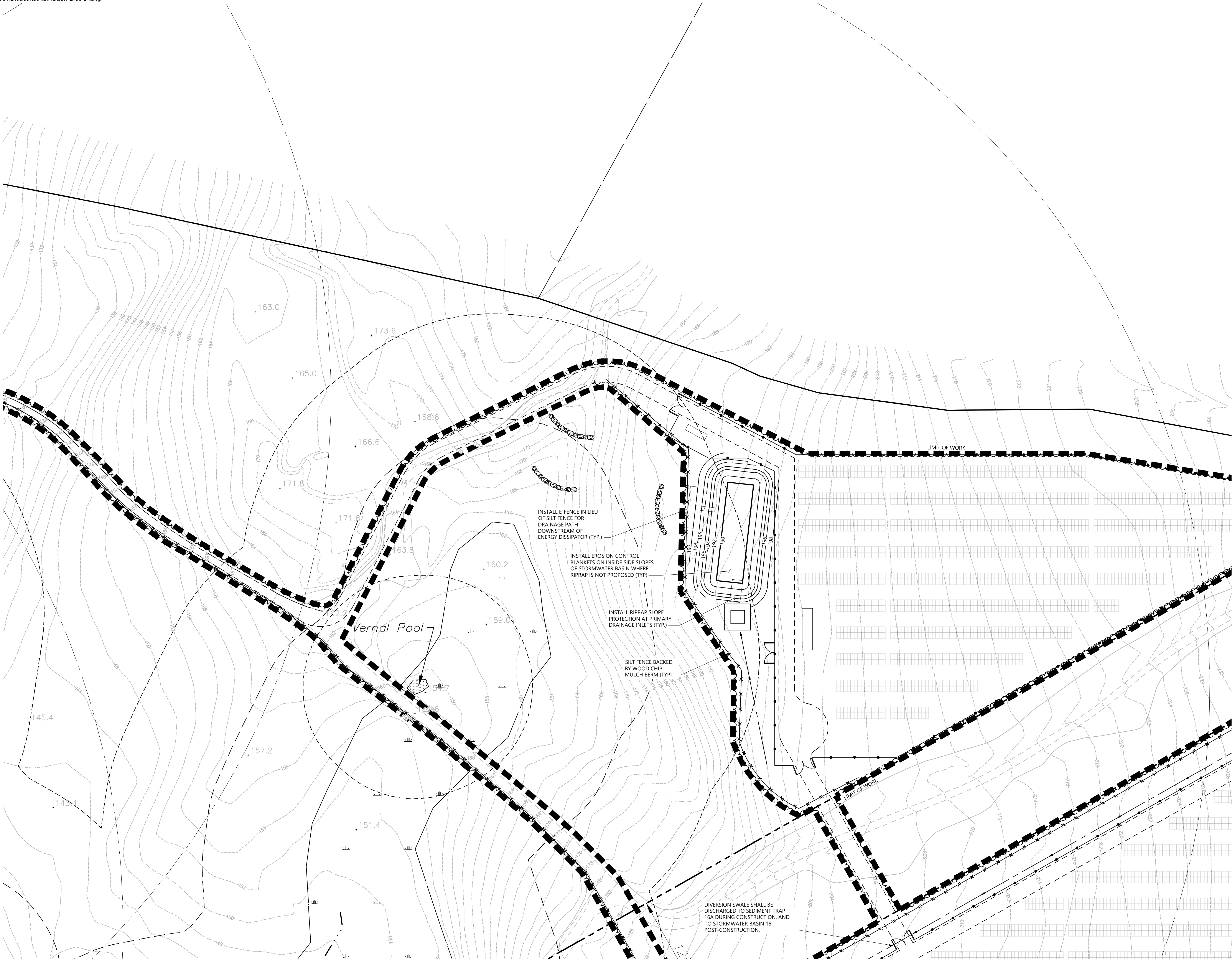
Erosion and Sediment
Control Plan

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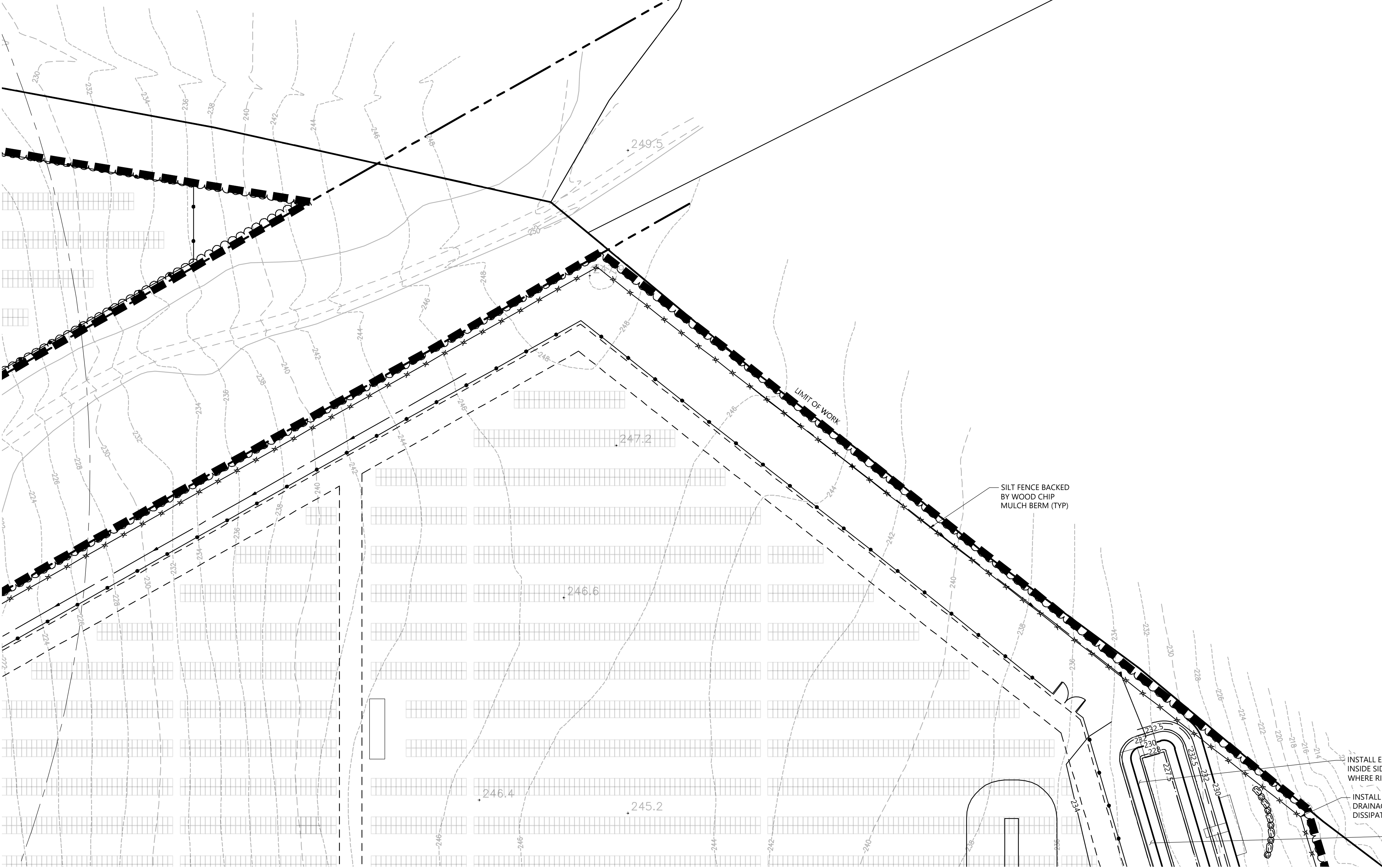
Project Number
42496.00



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C-5.7	C-5.8	C-5.9
C-5.10	C-5.11	C-5.12

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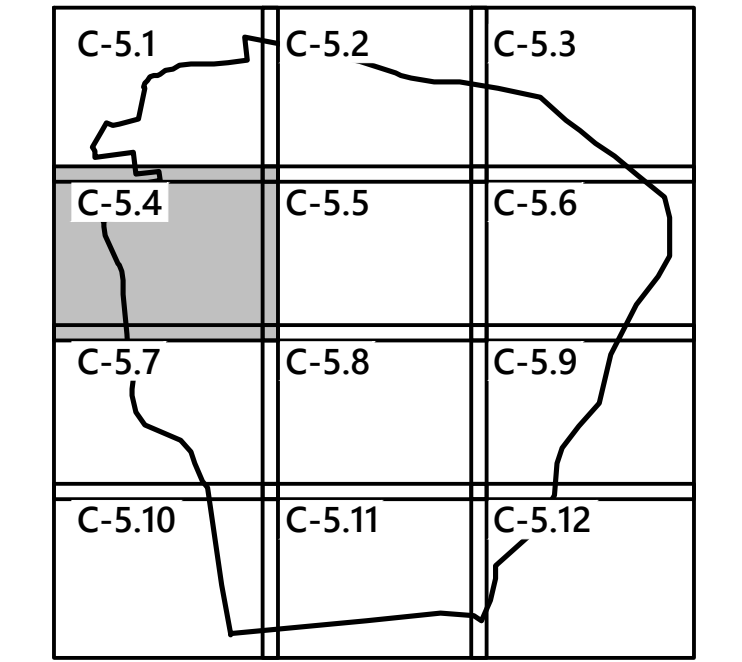
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Control Plan

Drawing Number

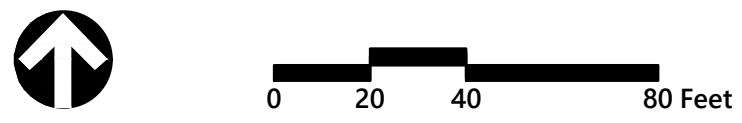
C-5.3

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**Erosion and Sediment
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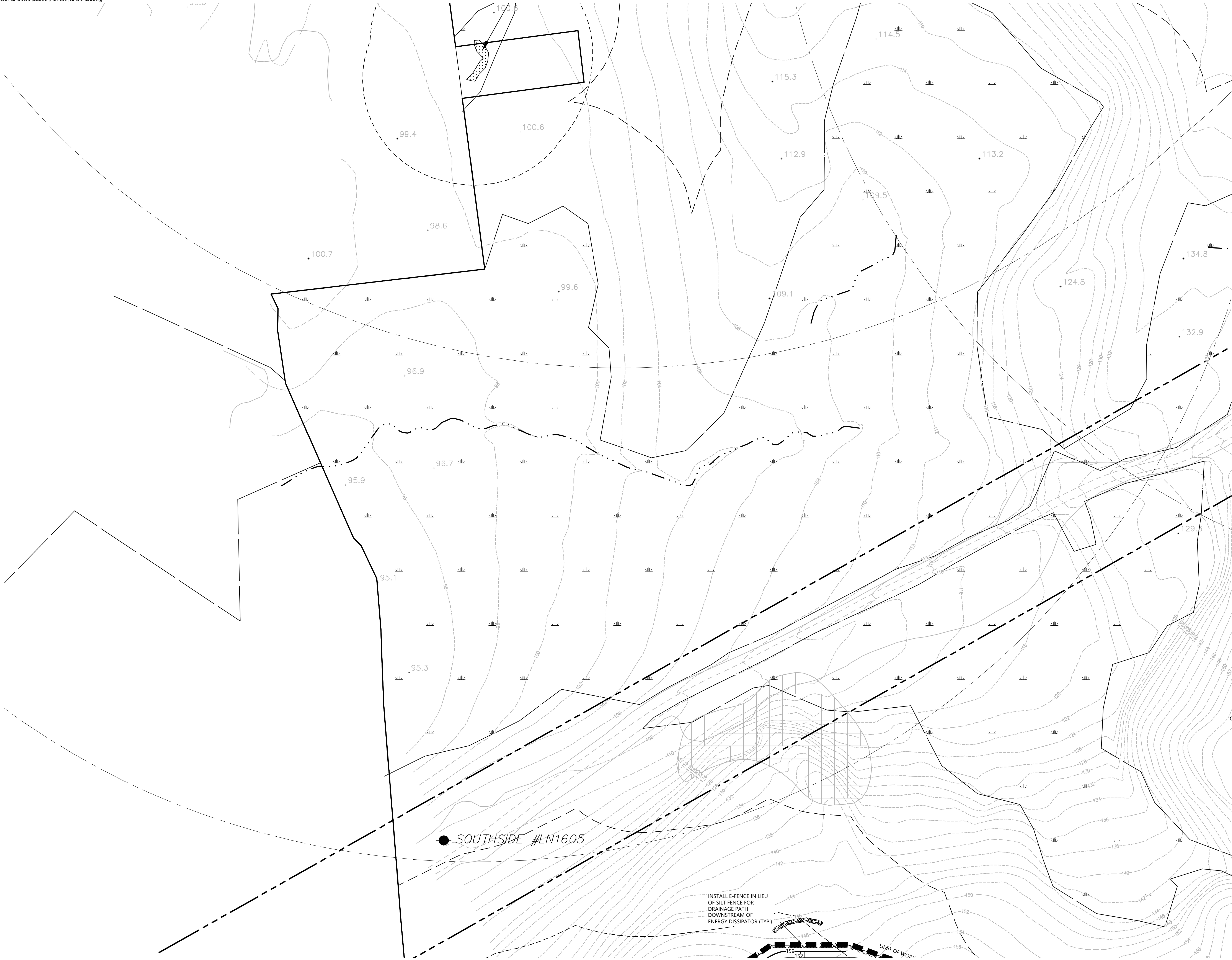


Figure 1 shows a 3x3 grid map of the study area. The cells are labeled as follows:

C-5.1	C-5.2	C-5.3
C-5.4	C-5.5 (shaded)	C-5.6
C-5.7	C-5.8	C-5.9
C-5.10	C-5.11	C-5.12

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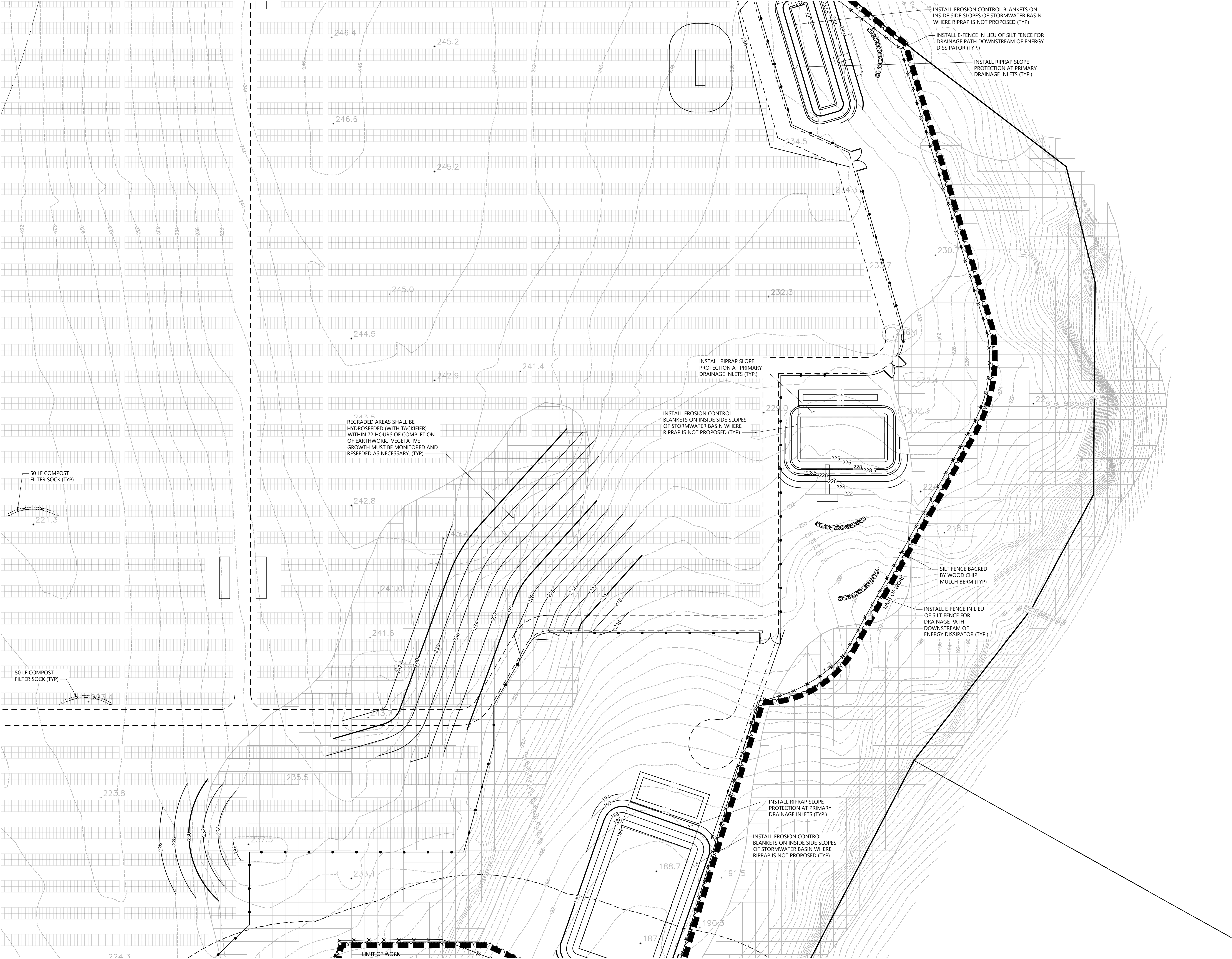
Erosion and Sediment Control Plan

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C-5.5

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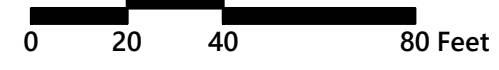





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C-5.1	C-5.2	C-5.3
C-5.4	C-5.5	C-5.6
C-5.7	C-5.8	C-5.9
C-5.10	C-5.11	C-5.12

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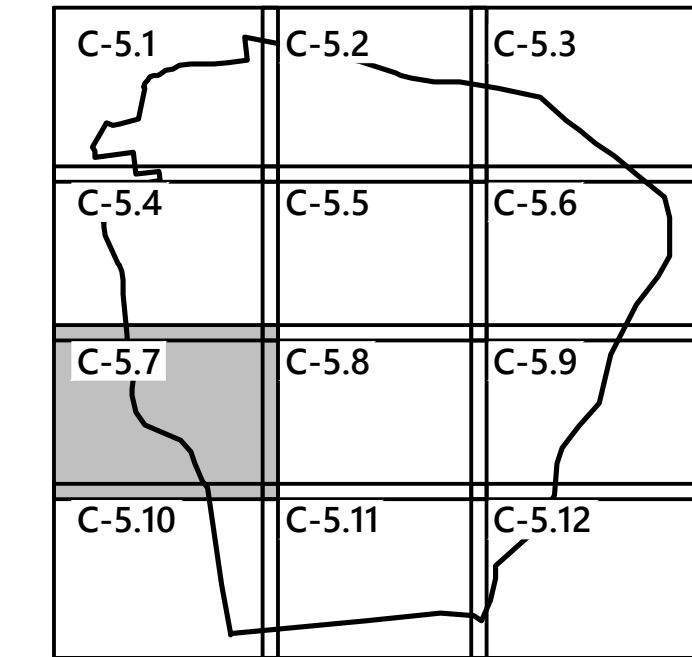
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**Erosion and Sediment
Control Plan**

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C-5.6

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35 43

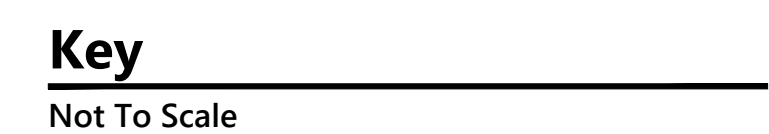
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A large, light gray rectangular area containing the drawing information. At the top, 'Drawing Number' is written in a small font, followed by 'C-5.7' in a very large, bold, black font. Below this, 'Sheet' and 'of' are written in a small font, followed by '36' and '43' in a large, bold, black font. At the bottom, 'Project Number' is written in a small font, followed by '42496.00' in a large, bold, black font.



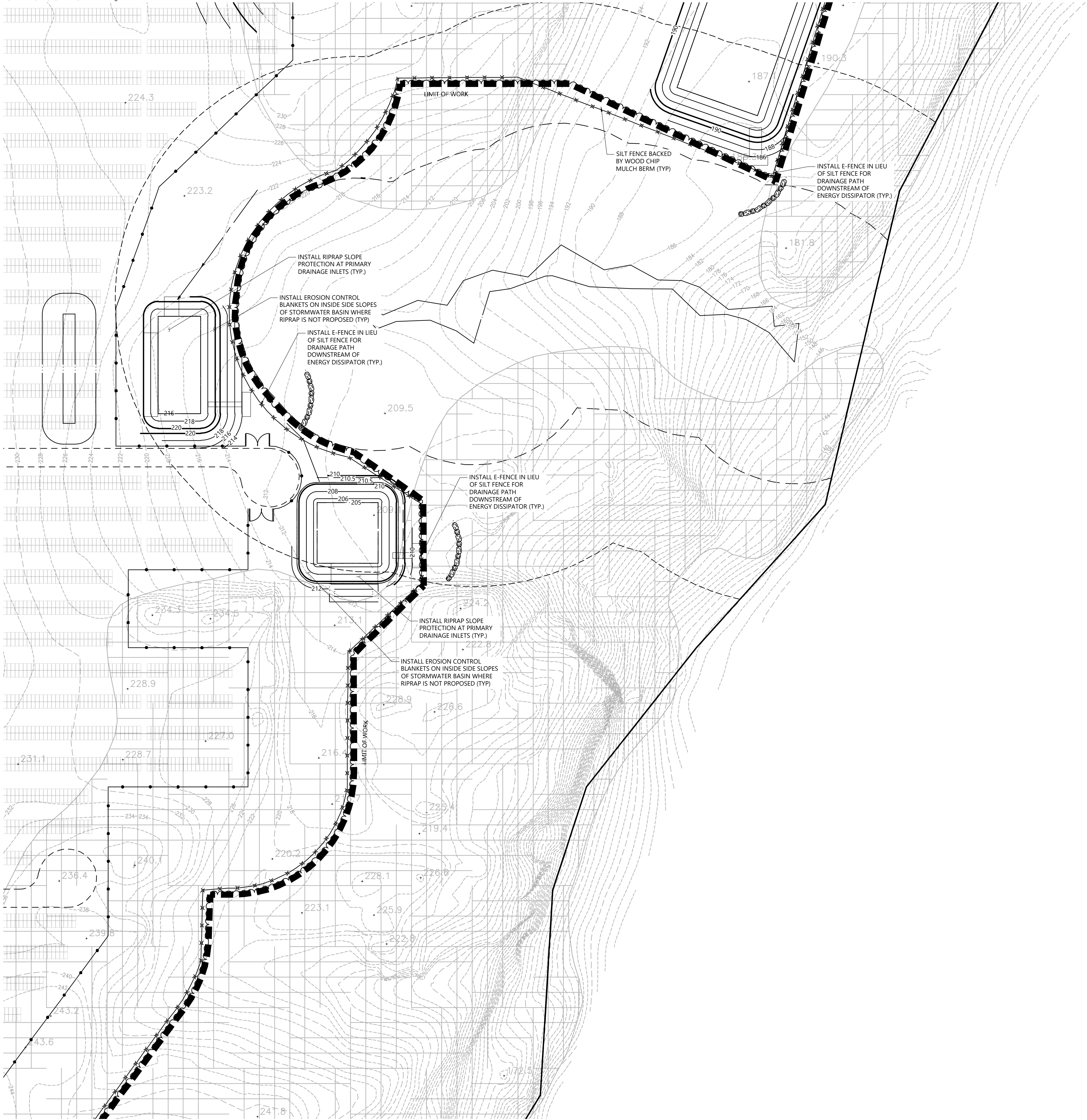
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C-5.8

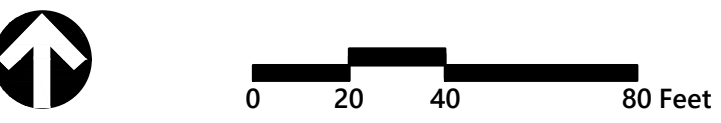
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C-5.1	C-5.2	C-5.3
C-5.4	C-5.5	C-5.6
C-5.7	C-5.8	C-5.9
C-5.10	C-5.11	C-5.12

Key
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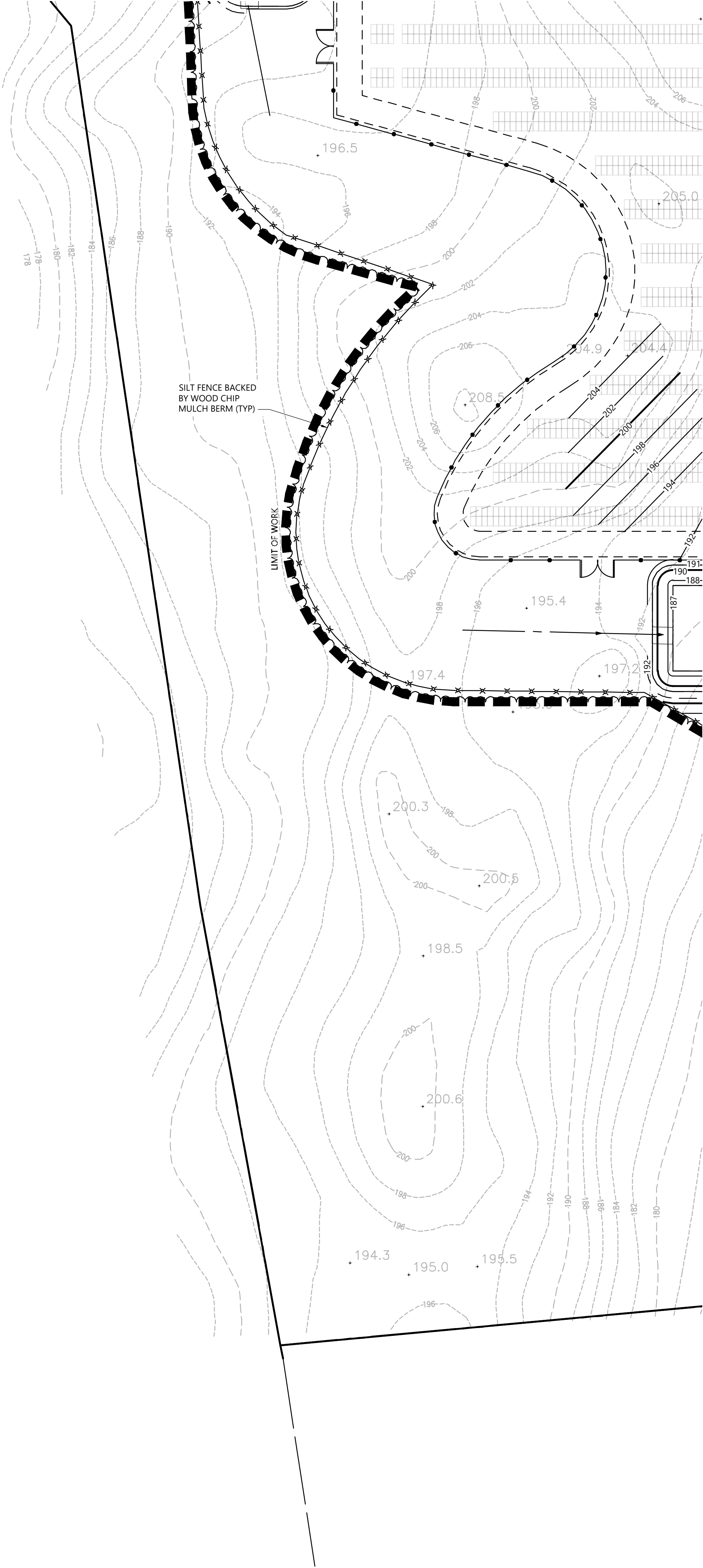
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38 43

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C-5.1	C-5.2	C-5.3
C-5.4	C-5.5	C-5.6
C-5.7	C-5.8	C-5.9
C-5.10	C-5.11	C-5.12

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0204080 Feet

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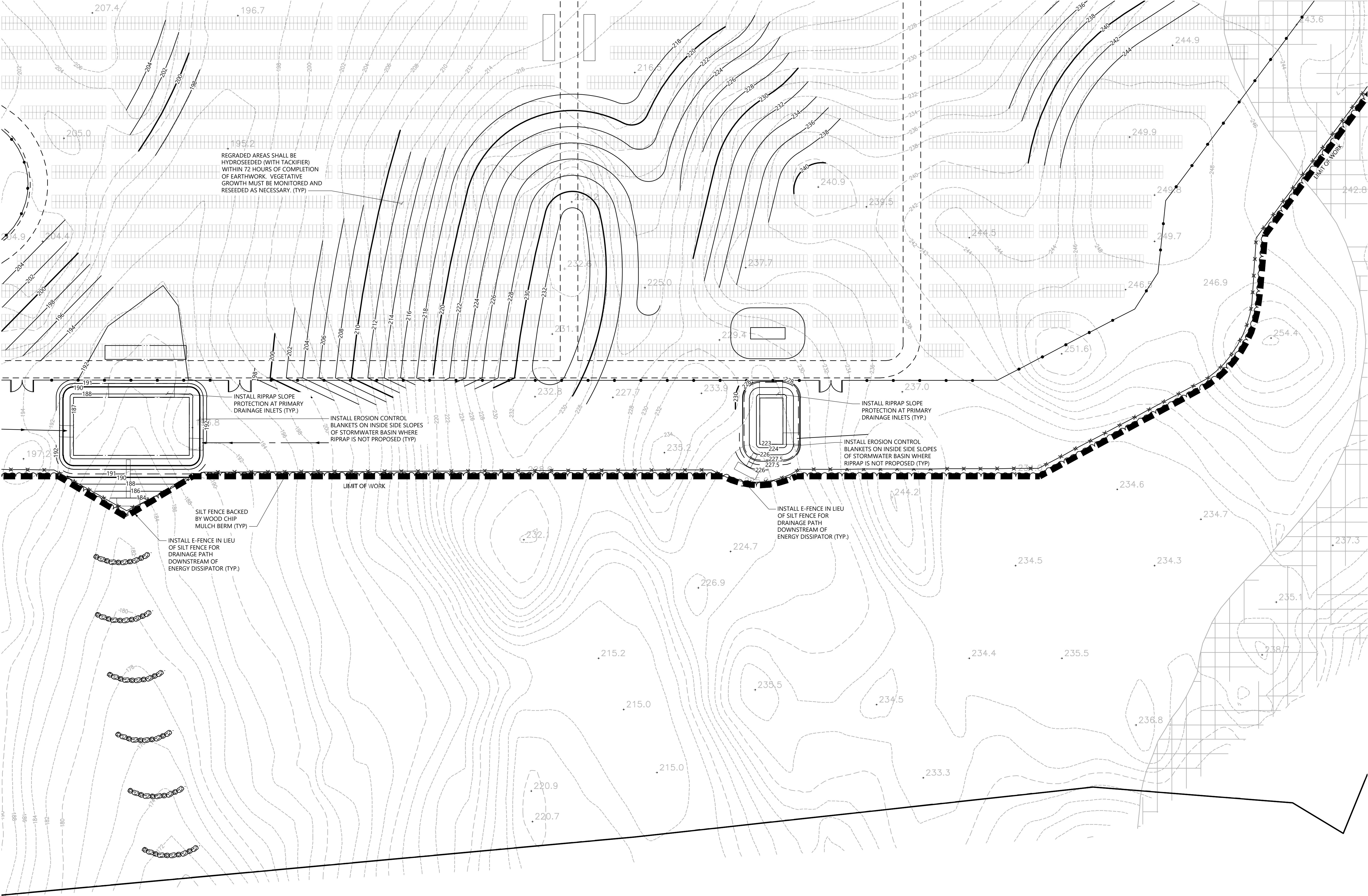
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**Erosion and Sediment
Control Plan**

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39 43

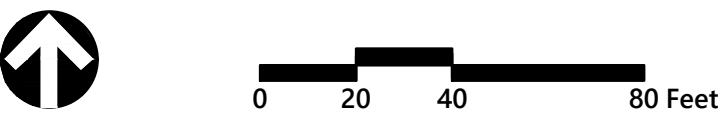
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C-5.1	C-5.2	C-5.3
C-5.4	C-5.5	C-5.6
C-5.7	C-5.8	C-5.9
C-5.10	C-5.11	C-5.12

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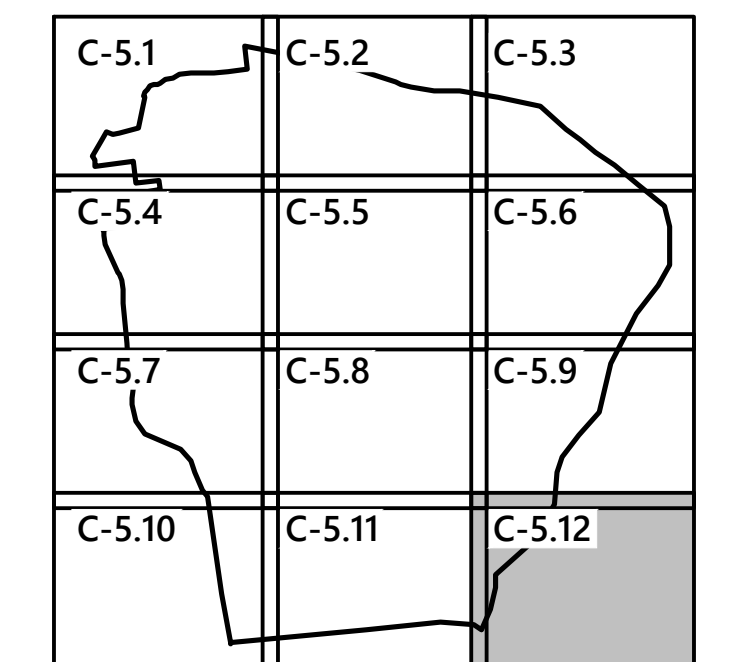
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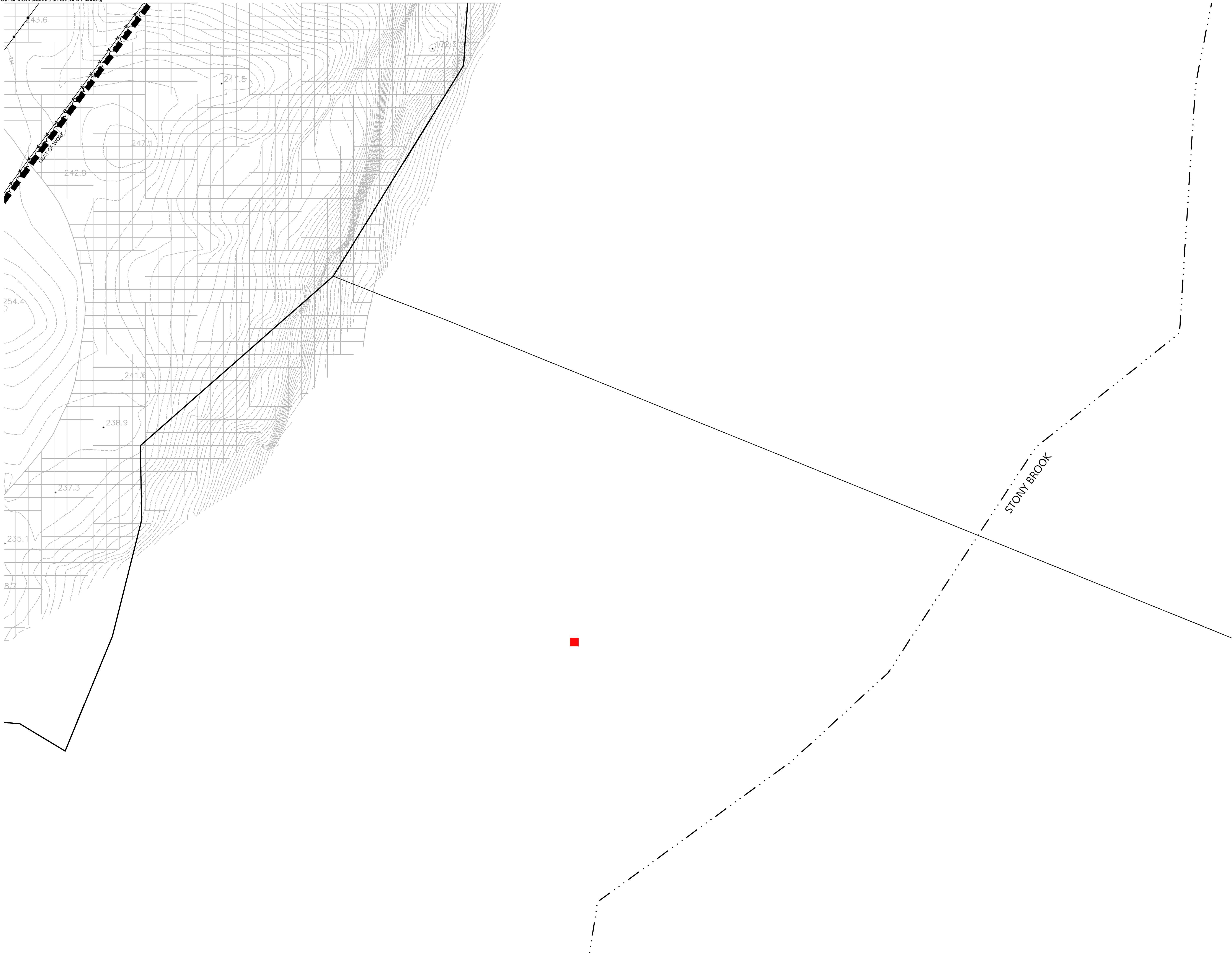
Erosion and Sediment Control Plan

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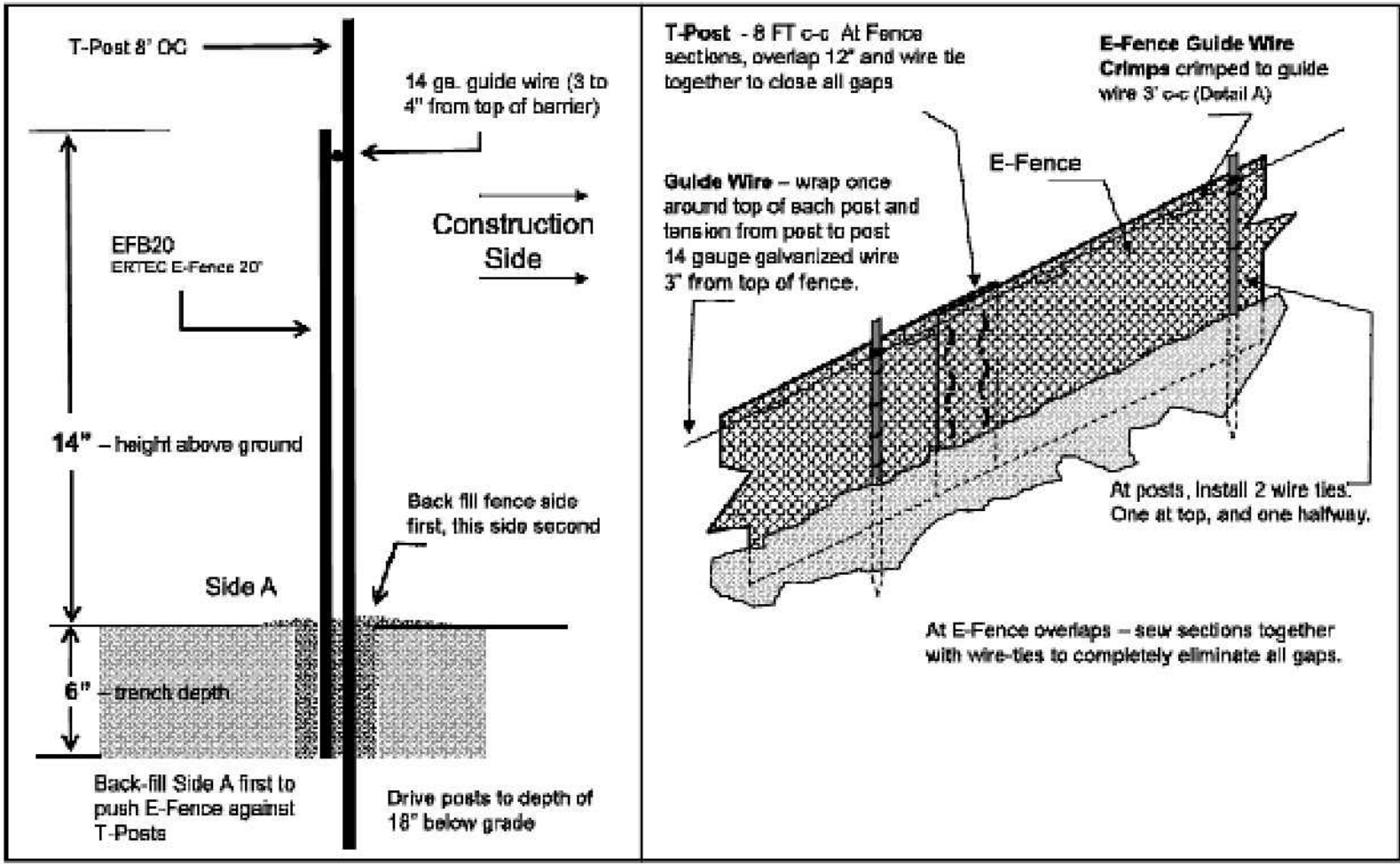
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E-Fence DETAILS – Wildlife Exclusion - WPT



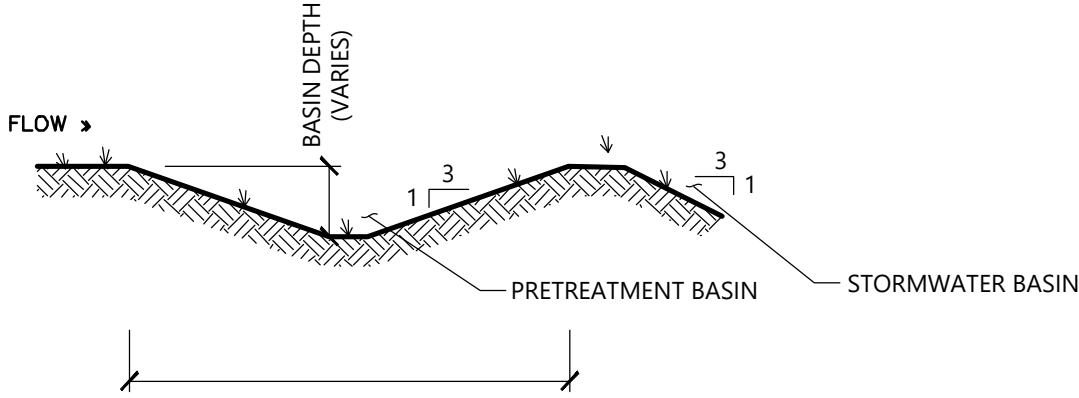
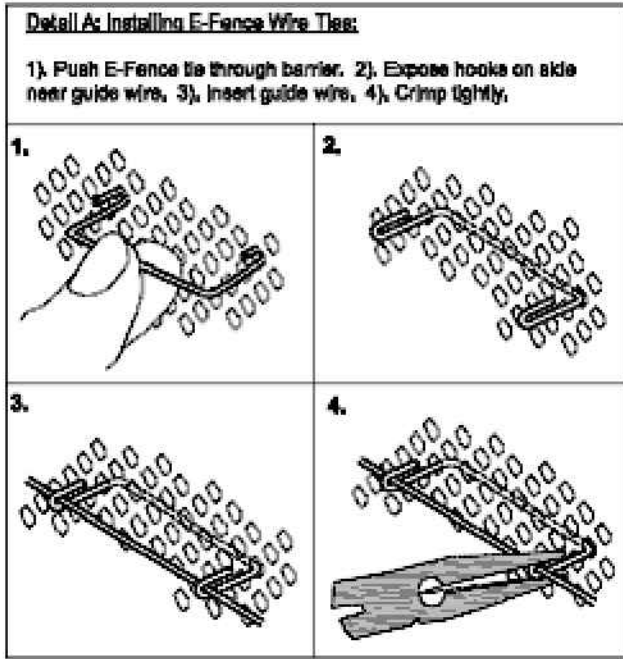
E-Fence™ (Patent #US8402830, other patents pending)

E-Fence™ DETAILS – Wildlife Exclusion

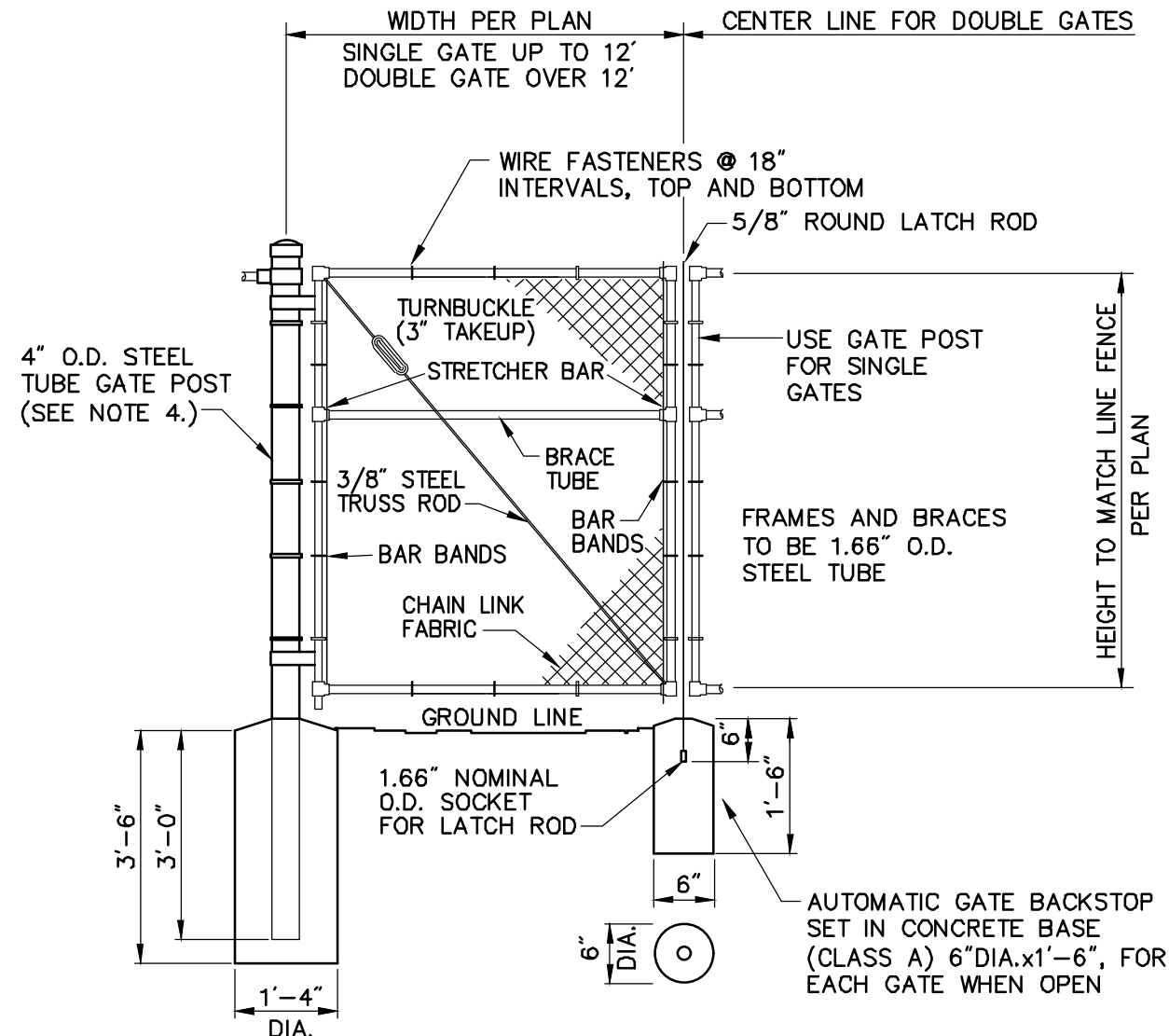
Installation Notes:

1. Excavate a trench a minimum of 4" wide and a minimum of 5" deep.
2. T-posts shall be a minimum of 0.95 lbs/ft. T-posts shall be driven a minimum 18" deep into the ground 8' centers.
3. Insert barrier material into trench and attach to post in two places: 1) at 3" below top of fence and at 2) mid-height.
4. At 3 inches from top of fence (above wire tie), wrap 14 gauge galvanized wire once around each T-post and pull the guide wire from post to post, wrap, secure and pull wire tight between each post.
5. At segment overlaps (roll length 100 or 150 LF), overlap segments a minimum of 12". Eliminate all gaps by tying sections together with tie wire in two vertical rows, as shown.
6. Push E-Fence Guide Wire Crimps through the E-Fence and crimp the ties to the guide wire on the other side of the fence (two crimps per tie) at 3" intervals, as illustrated in Detail A of the installation guidelines. Crimp to the guide-wire securely.
7. E-Fence must be installed in continuous lengths (100 or 150 feet rolls). Do not cut segments into shorter lengths unless necessary due to sudden changes in elevation.
8. Backfill trench with trench spoils. Backfill from E-Fence side of posts first so that E-Fence is pushed up against T-posts. Back fill other side to complete backfill.

E-Fence DETAILS – Guidewire Crimp



- NOTE:
1. PRETREATMENT BASIN LENGTH, WIDTH, AND DEPTH AS NOTED ON SITE PLANS.
 2. SIDE SLOPES SHALL BE 3:1.



Notes:

1. CHAIN LINK FABRIC FOR GATES TO BE THE SAME AS REQUIRED FOR FENCE.
2. GATE POST BASE--PORTLAND CEMENT CONCRETE (3000 PSI).
3. FENCE FABRIC, POSTS, FRAMEWORKS, AND HARDWARE SHALL BE GALVANIZED STEEL OR BLACK VINYL (AS INDICATED ON PLANS) PER SPECIFICATIONS.
4. GATE POSTS TO BE USED ON EACH SIDE OF SINGLE AND DOUBLE GATE OPENINGS.

Chain Link Fence Gate

6/08

N.T.S.

Source: VHB

LD_482

E-Fence Installation Details

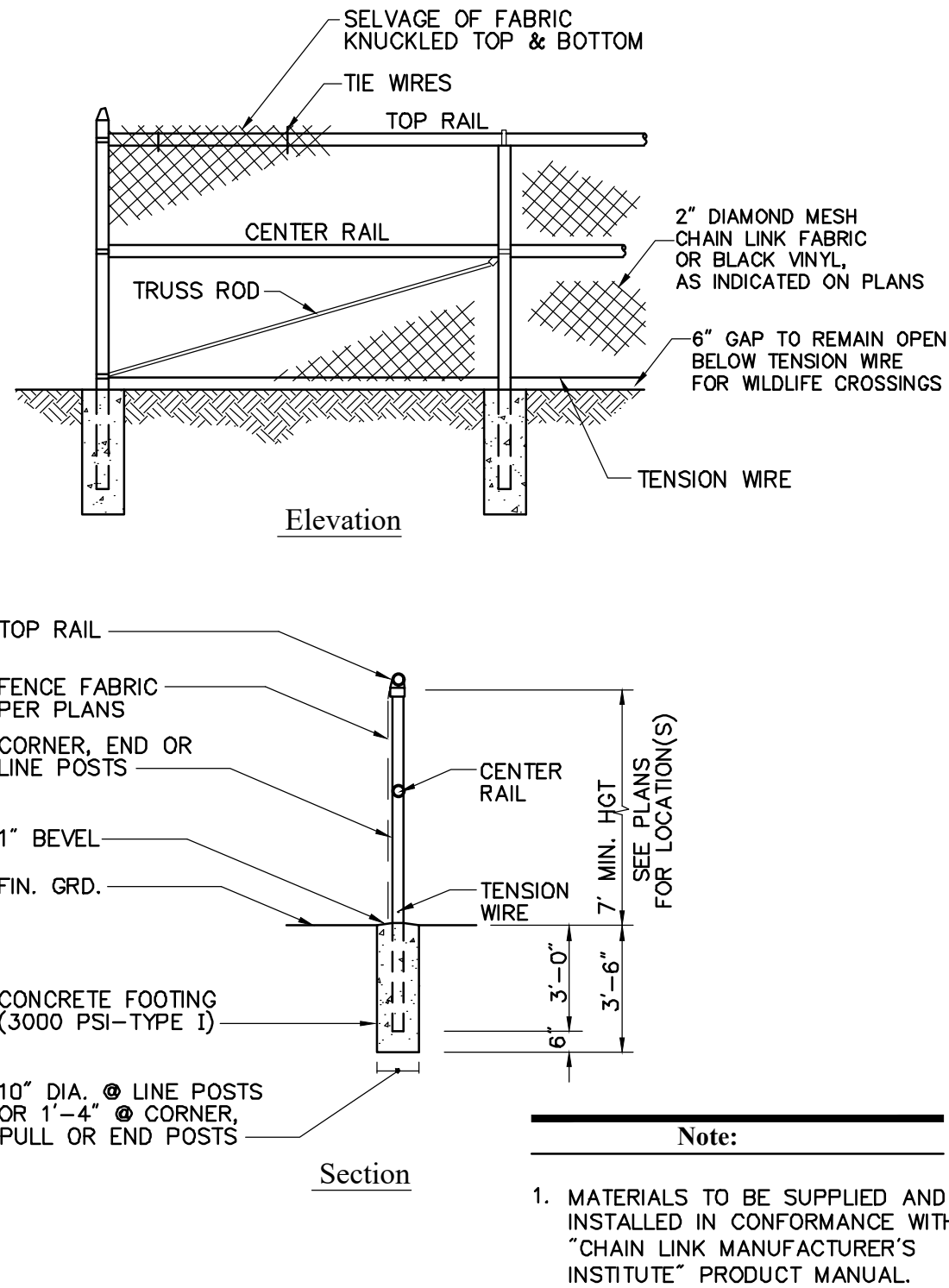
N.T.S.

Source: Ertec Environmental Systems

Pretreatment Basin

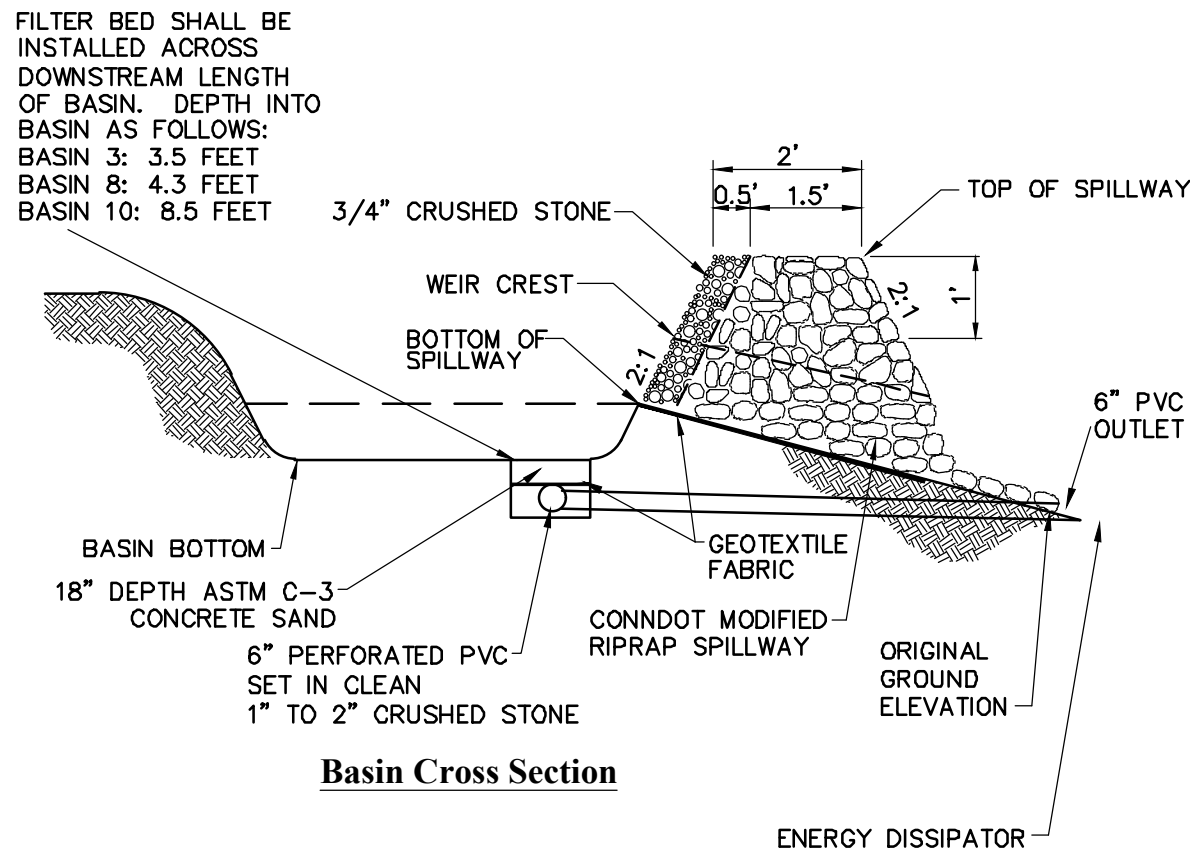
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Source: VHB



Note:

1. MATERIALS TO BE SUPPLIED AND INSTALLED IN CONFORMANCE WITH "CHAIN LINK MANUFACTURER'S INSTITUTE" PRODUCT MANUAL.



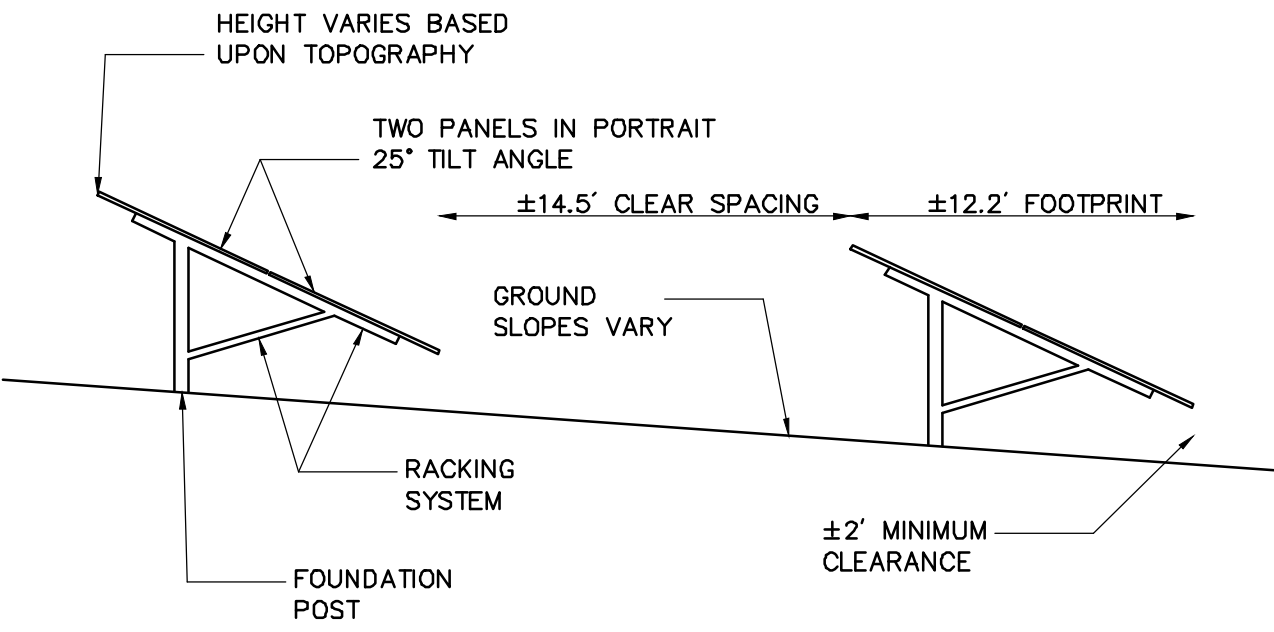
Basin Cross Section

- NOTE:
1. ALL SIDE SLOPES SHALL NOT EXCEED 3:1
 2. TOP OF EMBANKMENT SHALL BE 2' (MIN.) WIDTH AND 1' (MIN.) ABOVE TOP OF SPILLWAY.
 3. SIDE SLOPES OF EMBANKMENT SHALL BE STABILIZED BY TEMPORARY SEEDING OR EROSION CONTROL BLANKETS AS DIRECTED BY THE ENGINEER.
 4. REFER TO "PERMANENT STORMWATER BASIN SIZING" TABLE FOR VARIABLE SIZING.
 5. PERIMETER SILT FENCE SHALL BE REMOVED IMMEDIATELY DOWNSTREAM FROM SPILLWAY AND REPLACED WITH E-FENCE.
 6. PERFORATED PVC AND CONCRETE SAND FOR SAND FILTERS SHALL BE INSTALLED ONLY UPON FULL STABILIZATION OF UPSTREAM AREAS. 6" PVC SHALL BE INSTALLED AND CAPPED AT TIME OF BASIN EXCAVATION.
 7. PERFORATIONS IN UNDERDRAIN PIPING SHALL BE 0.5 INCH SPACED 6 INCHES APART.
 8. FILTER BEDS HAVE BEEN SIZED TO DRAIN THE STORMWATER BASIN WITHIN ONE DAY IN ACCORDANCE WITH 2004 STORMWATER QUALITY MANUAL. ASSUMPTION OF 20 FEET/DAY HYDRAULIC CONDUCTIVITY FOR MEDIUM SAND AND BASIN VOLUME UNDER BOTTOM OF SPILLWAY.

Earthen Surface Sand Filter Basin

N.T.S.

Source: VHB



Notes:

1. FINAL DETERMINATION OF PANEL TYPE, RACKING SYSTEM, AND FOUNDATION POSTS TO BE DETERMINED PENDING BEST AVAILABLE TECHNOLOGY AT TIME OF CONSTRUCTION AND STRUCTURAL GROUND TESTING.

Cross Section of Panel Array

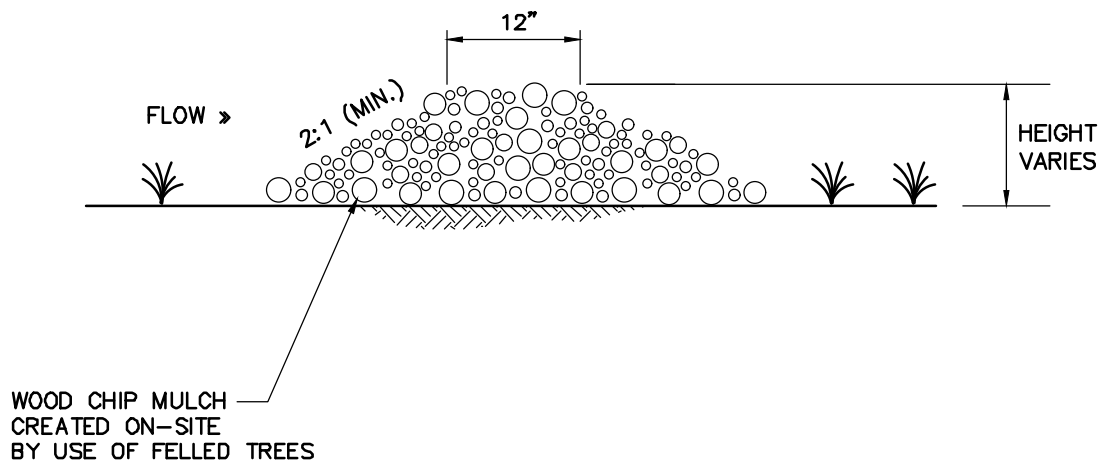
N.T.S.

Source: VHB

Wood Chip Mulch Berm

N.T.S.

Source: VHB



NOTES:

1. WOOD CHIP MULCH BERM TO BE INSTALLED DOWNSTREAM OF PERIMETER SILT FENCE IN VARIOUS LOCATIONS AROUND SITE.

Photovoltaic Installation

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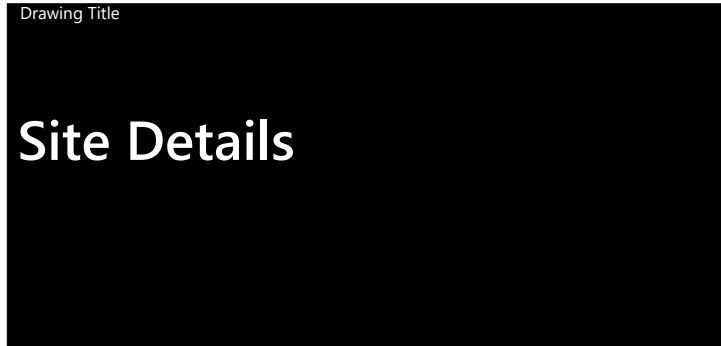
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42 43

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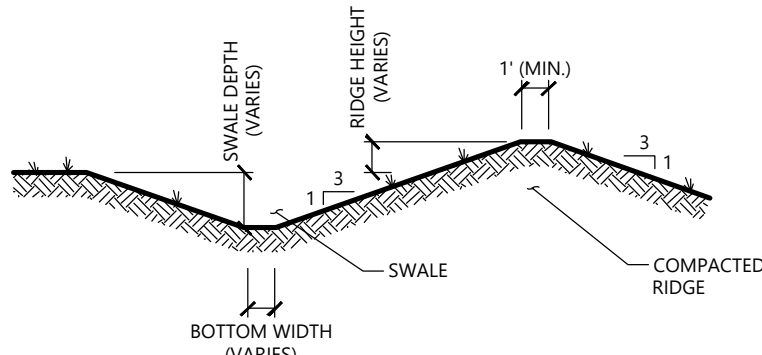


Diagram illustrating the installation of a silt fence. The fence is constructed using a 1 1/2" x 1 1/2" x 4' wood stake or approved equal, driven into the ground. The fabric is placed 4" of fabric along the trench away from the protected area, backfilled, and compacted. The top of the ground is indicated, and the flow direction is shown by an arrow. The distance between stakes is 4' (MAX). The trench depth is 1' (MIN). The fabric is secured with a staple.

The diagram illustrates the construction of a trench erosion control system using jute strips. It consists of several parts labeled A through D:

- A. BURY THE TOP END OF THE JUTE STRIPS IN A TRENCH 6 INCHES OR MORE IN DEPTH. SECURE WITH ROW OF STAPLES IN VERTICAL TRENCH WALL, 6 INCH SPACING, 4 INCHES DOWN FROM TOP OF TRENCH.** This part shows two cross-sectional views of a trench. In the first, a jute strip is placed at the top of a trench, secured by staples driven into the vertical wall. The second view shows the strip being buried deeper into the trench.
- B. TAMP THE TRENCH FULL OF SOIL. SECURE WITH ROW OF STAPLES, 6 INCH SPACING, 4 INCHES DOWN FROM THE TRENCH.** This view shows the trench filled with soil and the jute strip secured with staples along its length.
- C. OVERLAP - BURY UPPER END OF LOWER STRIP AS IN 'A' AND 'B'. OVERLAP END OF TOP STRIP 4 INCHES AND STAPLE.** This view shows two jute strips overlapping. The upper end of the lower strip is buried under the bottom of the top strip, which is then secured with a staple.
- D. EROSION STOP - FOLD OF JUTE BURIED IN SUIT TRENCH AND TAMPED; DOUBLE ROW OF STAPLES.** This view shows a fold in the jute strip buried in the trench, secured with a double row of staples. Below this, a detailed cross-section shows the "OVERLAP" area where the width varies.

Additional details include:

- A large perspective view of the completed system showing multiple parallel jute strips installed in a series of connected trenches, with arrows indicating water flow over the surface.
- Text specifying: "4 INCH OVERLAP OF JUTE STRIP WHERE TWO OR MORE STRIP WIDTHS ARE REQUIRED. STAPLES ON 18 INCH CENTERS."
- Text specifying: "STAPLE OUTSIDE EDGE 2 FEET ON CENTER."
- A dimension line indicating "WIDTH VARIES".
- A section titled "TYPICAL STAPLES NO. 11 GAUGE WIRE" showing two types of staples with dimensions: one is 1-1/2" wide and the other is 1-1/2" high.

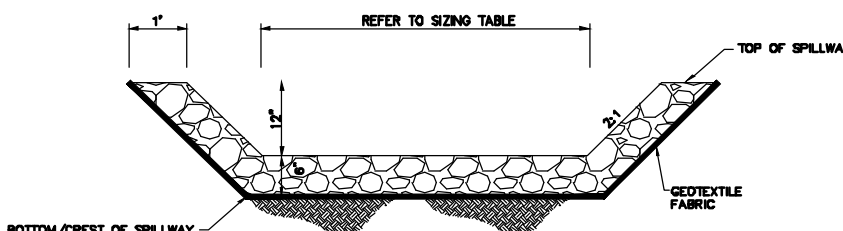
Plan View

Figure 1 is a cross-sectional diagram of a roadside ditch. The ditch is 50 feet wide (minimum) and 4 inches deep (minimum). It features a 3-foot slope on the right side. The ditch is lined with a filter fabric and filled with 1 1/2 inches of crushed stone. A mountable berm is located on the right side of the ditch, adjacent to the existing pavement.

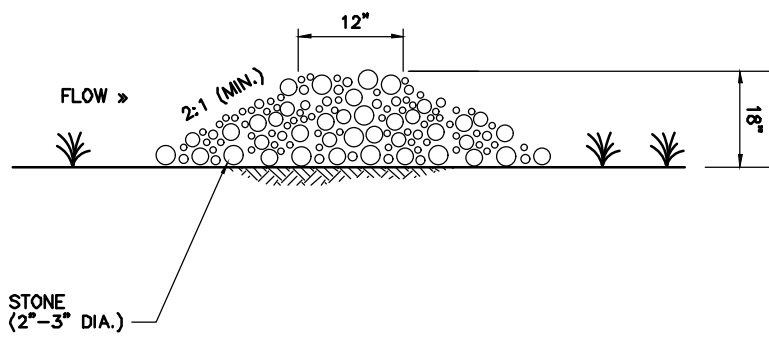
Notes:

- | | | |
|----------------------------------|-------------|----------|
| Straw Wattle Installation | | 8/1/2017 |
| N.T.S. | Source: VHB | LD_651 |

N.T.S. Source: VHB



N.T.S. Source: VHB



N.T.S. Source: VHB

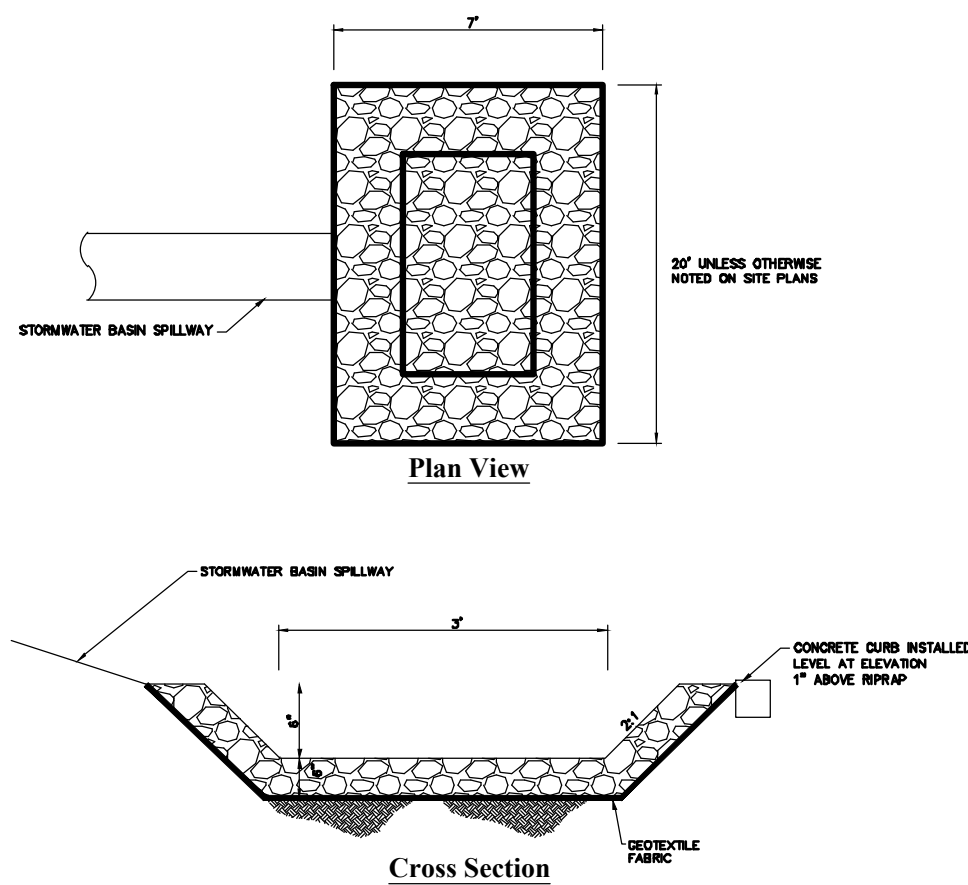


N.T.S. Source: VHB

PERMANENT STORMWATER BASIN SIZING								
NUMBER	BASIN TYPE	LENGTH AT BASIN BOTTOM (TDE OF SLOPE), FT	WIDTH AT BASIN BOTTOM (TDE OF SLOPE), FT	SIDE SLOPES	BOTTOM ELEVATION, FT	ELEVATION OF BOTTOM/CREST OF SPILLWAY, FT	SPILLWAY WIDTH AT BASE, FT	MINIMUM TOP OF BERM ELEVATION, FT
1	POND	25	95	3:1	190.0	193.0	2	195.0
2	INFILTRATION	15	100	3:1	227.5	231.0	4	232.5
3	SAND FILTER	40	80	3:1	224.0	226.5	2	228.5
4	POND	75	120	3:1	184.0	188.0	8	190.0
5	INFILTRATION	80	35	3:1	216.0	218.0	2	220.0
6	POND	50	50	3:1	205.0	209.0	3	210.5
7	INFILTRATION	20	40	3:1	223.0	226.0	2	227.5
8	SAND FILTER	50	100	3:1	186.0	188.5	1.5	191.0
9	POND	25	60	3:1	186.0	190.0	2	191.5
10	SAND FILTER	50	70	3:1	165.5	168.5	2	170.0
11	POND	15	65	3:1	148.0	152.0	2	153.5
12	POND	20	125	3:1	155.0	158.5	2	160.5
13	INFILTRATION	80	170	3:1	184.0	188.0	8	189.5
14	INFILTRATION	25	65	3:1	186.5	190.0	2	192.0
16	POND	55	250	3:1	189.0	195.5	10	197.0

N.T.S. Source: VHB

N.T.S. Source: VHB



N.T.S. Source: VHB LD_651

Notes:

- 117 Oil Mill Road
Waterford, Connecticut

Designed by	Checked by
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Issued for	Date
Application	December 2, 2019

Application December 2, 2019

Not Approved for Construction

Drawing Title

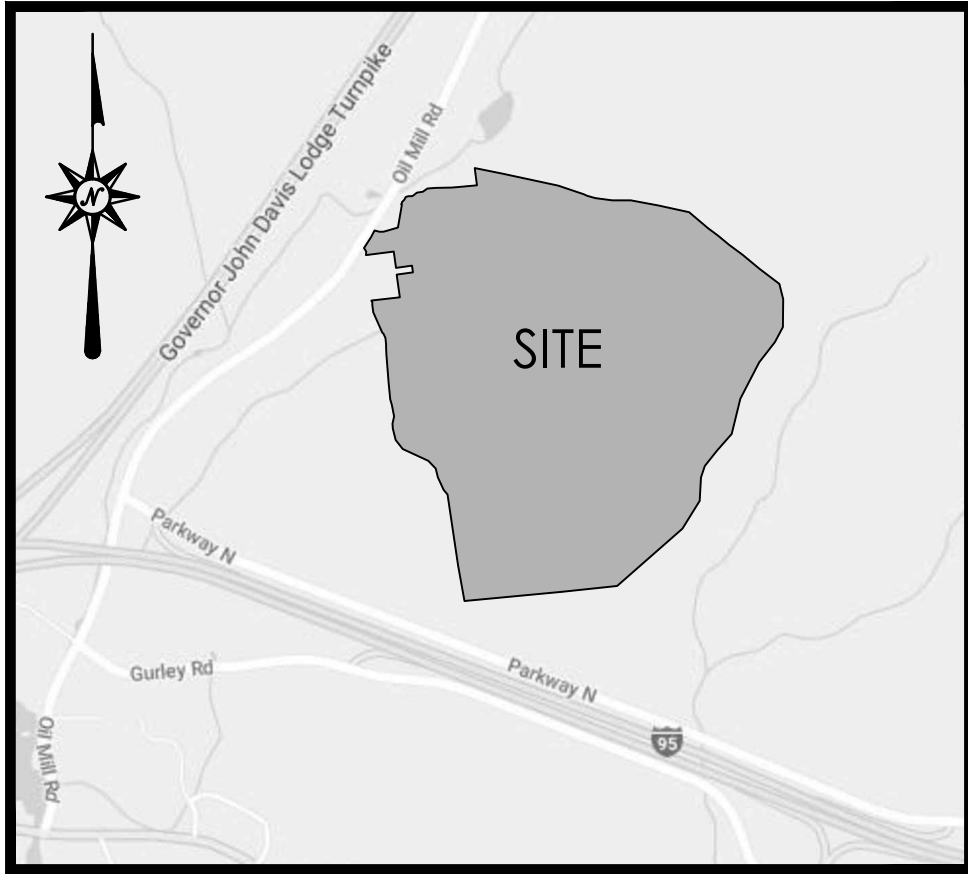
Site Details

Drawing Number

C-6.2

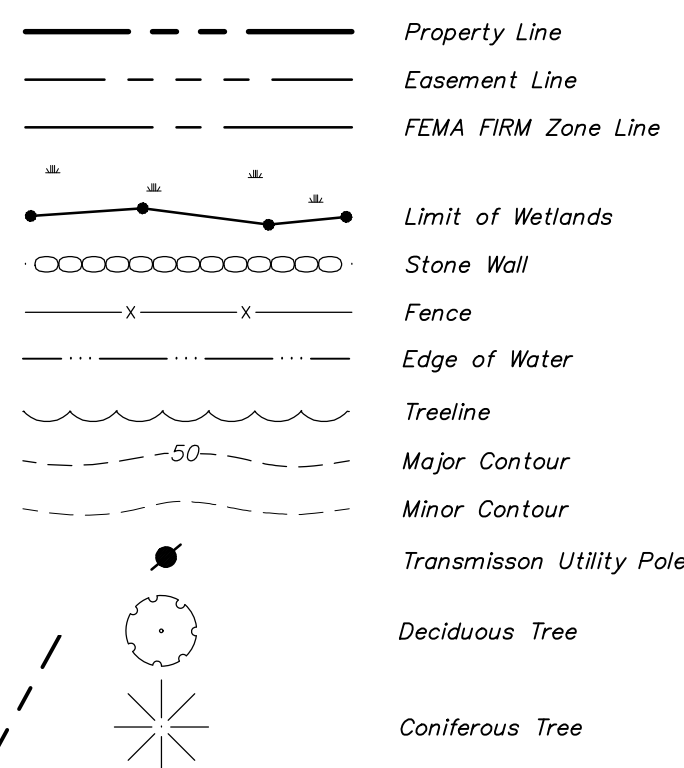
Sheet 43 of 43

Project Number
42496.00



LOCATION MAP
NOT TO SCALE

LEGEND

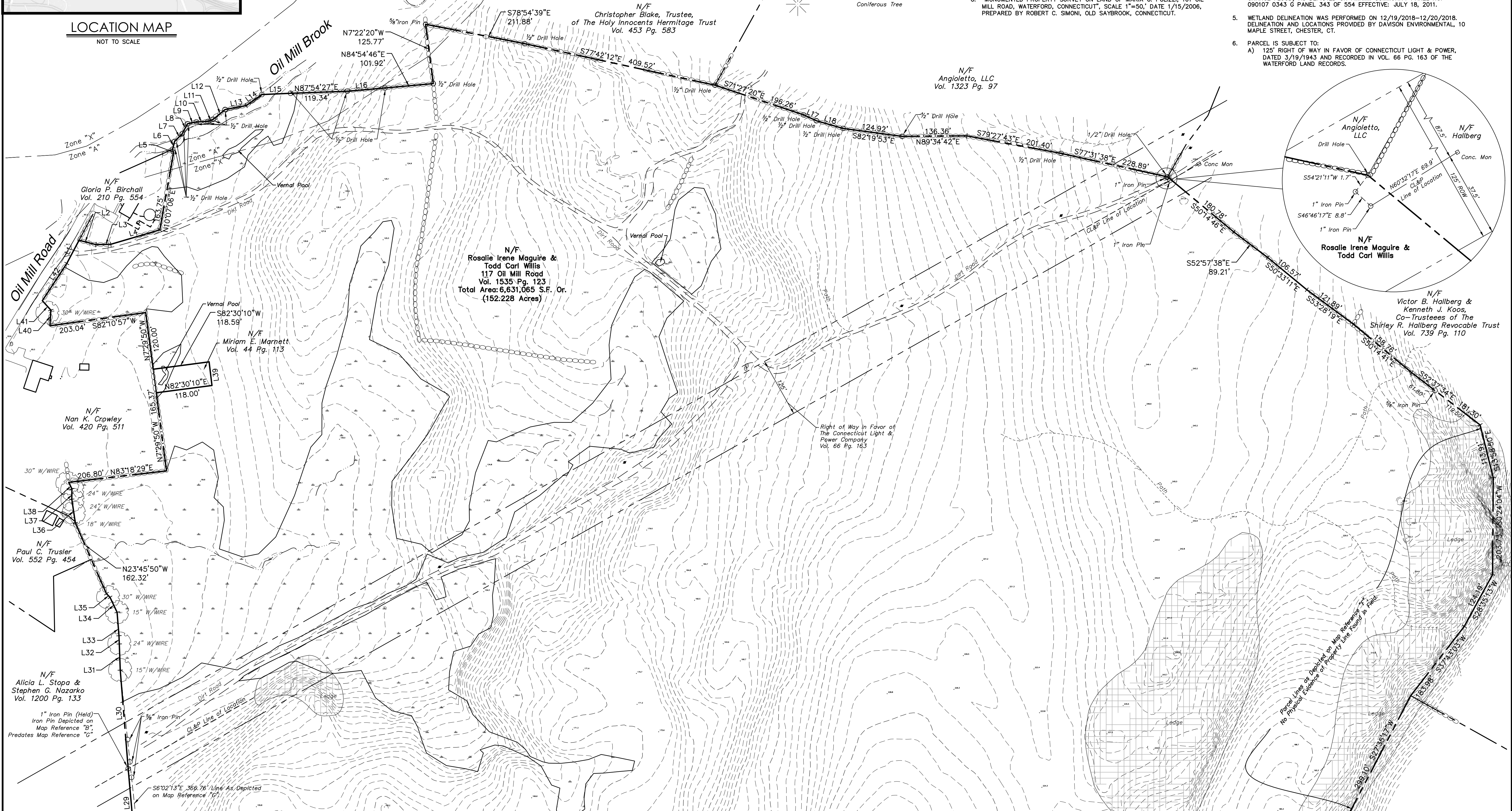


MAP REFERENCES

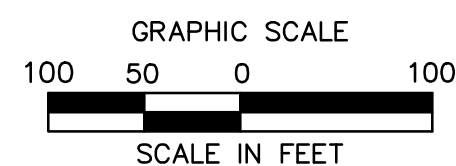
- "PLAN OF BARRETT HEIGHTS PARK, WATERFORD, NEW LONDON COUNTY, CONNECTICUT", SCALE 1"=100', DATE 10/1926, PREPARED BY K.H. HOLMES, NEW LONDON, CT.
- "LOCATION OF RIGHT OF WAY OF THE CONNECTICUT LIGHT & POWER COMPANY ACROSS THE PROPERTY OF SARAH S. HOLBROOK, TOWN OF WATERFORD COUNTY OF NEW LONDON, STATE OF CONNECTICUT", SCALE 1"=200', DATE 2/1943, SHEETS 1 & 2, MONTVILLE-FLANDERS LINE.
- "SURVEY OF PROPERTY ON OIL MILL ROAD, TOWN OF WALLINGFORD, CONN. BELONGING TO ESTATE OF ROBERT A. BRUBECK", DATE 9/1949, SCALE 1"=100', PREPARED BY ERNEST L. DESHEFY, NEW LONDON, CT.
- "PLAN OF SALTER PROPERTY, OIL MILL ROAD, WATERFORD, CONN", SCALE 1"=40', DATE 5/1956, PREPARED BY KENNETH H. HOLMES.
- "PLAT OF LANDS OF ANNIE G. KRAVCHUCK, GILEAD & OIL MILL ROADS, WATERFORD CONN.", SCALE 1"=100', DATE 5/1981, PREPARED BY ROBERT L. BUCHER, NEW LONDON, CT.
- "PROPERTY MAP PARCELS ABUTTING CLAM LANE AND FARGO ROAD, WATERFORD, CONNECTICUT, FOR: BERNHARD ASSOCIATES, NO. HAVEN, CT", SCALE 1"=100', DATE 4/7/1989, PREPARED BY CASCIO, BECHIR & ASSOCIATES, INC. NORTH HAVEN, CT.
- "MONUMENTED PROPERTY SURVEY ON LAND OF MARIA G. POLIZZI, 101 OIL MILL ROAD, WATERFORD, CONNECTICUT", SCALE 1"=50', DATE 1/15/2006, PREPARED BY ROBERT C. SIMONI, OLD SAYBROOK, CONNECTICUT.

GENERAL NOTES

- A) THIS MAP HAS BEEN PREPARED IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES, SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.
B) THIS PLAN CONFORMS TO HORIZONTAL ACCURACY CLASS A-2 AND TOPOGRAPHICAL ACCURACY 1-3.
C) BOUNDARY DETERMINATION IS BASED UPON A FIRST SURVEY.
D) THE TYPE OF SURVEY PERFORMED IS A PROPERTY/TOPOGRAPHIC SURVEY AND IS INTENDED TO DEPICT THE EXISTING CONDITIONS WITH RESPECT TO MONUMENTATION FOUND, STRUCTURES, EASEMENTS, ENCROACHMENTS, VISIBLE UTILITIES, ROADWAYS AND CONTOURS.
- NORTH ARROW AND BEARINGS REFER TO NAD 83 AND ARE BASED ON GPS OBSERVATIONS PERFORMED BY BL COMPANIES ON 2/15/2018.
- ELEVATIONS REFER TO NAVD 88 AND ARE BASED ON GPS OBSERVATIONS PERFORMED BY BL COMPANIES ON 2/15/2018.
- PARCEL IS LOCATED IN A FLOOD HAZARD AREA "X", (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD) WITH A PORTION OF PARCEL IN SPECIAL FLOOD HAZARD AREA "A", (AREAS SUBJECT TO THE 1% ANNUAL CHANCE FLOOD) AS DEPICTED ON F.I.R.M. COMMUNITY PANEL NO. 090107 0343 G PANEL 343 OF 554 EFFECTIVE: JULY 18, 2011.
- WETLAND DELINEATION WAS PERFORMED ON 12/19/2018-12/20/2018. DELINEATION AND LOCATIONS PROVIDED BY DAWSON ENVIRONMENTAL, 10 MAPLE STREET, CHESTER, CT.
- PARCEL IS SUBJECT TO:
A) 125' RIGHT OF WAY IN FAVOR OF CONNECTICUT LIGHT & POWER, DATED 3/19/1943 AND RECORDED IN VOL. 66 PG. 163 OF THE WATERFORD LAND RECORDS.



MATCHLINE ~ SEE SHEET 2 OF 2



TO MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

ROBERT H. ROPER L.S. #18469

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE ORIGINAL SIGNATURE AND EMBOSSED SEAL OF THE ABOVE NAMED LAND SURVEYOR.

ROSALIE IRENE MAGUIRE &
TODD CARL WILLIS
117 OIL MILL ROAD
WATERFORD, CONNECTICUT

REVISIONS
No. Date Desc.

Surveyed AV/SB
Drawn AV
Reviewed RHR
Scale 1"=100'
Project No. 17D3515
Date 2/22/2018
Field Book 519

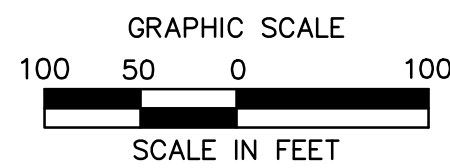
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Title
PROPERTY SURVEY

Sheet No. 1 OF 2

BS-1

Jun 12, 2018 11:30am escholarie G:\J0817A\170\1703315\DWG\18170331501.dwg
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Xref (g): 18170331501.dwg

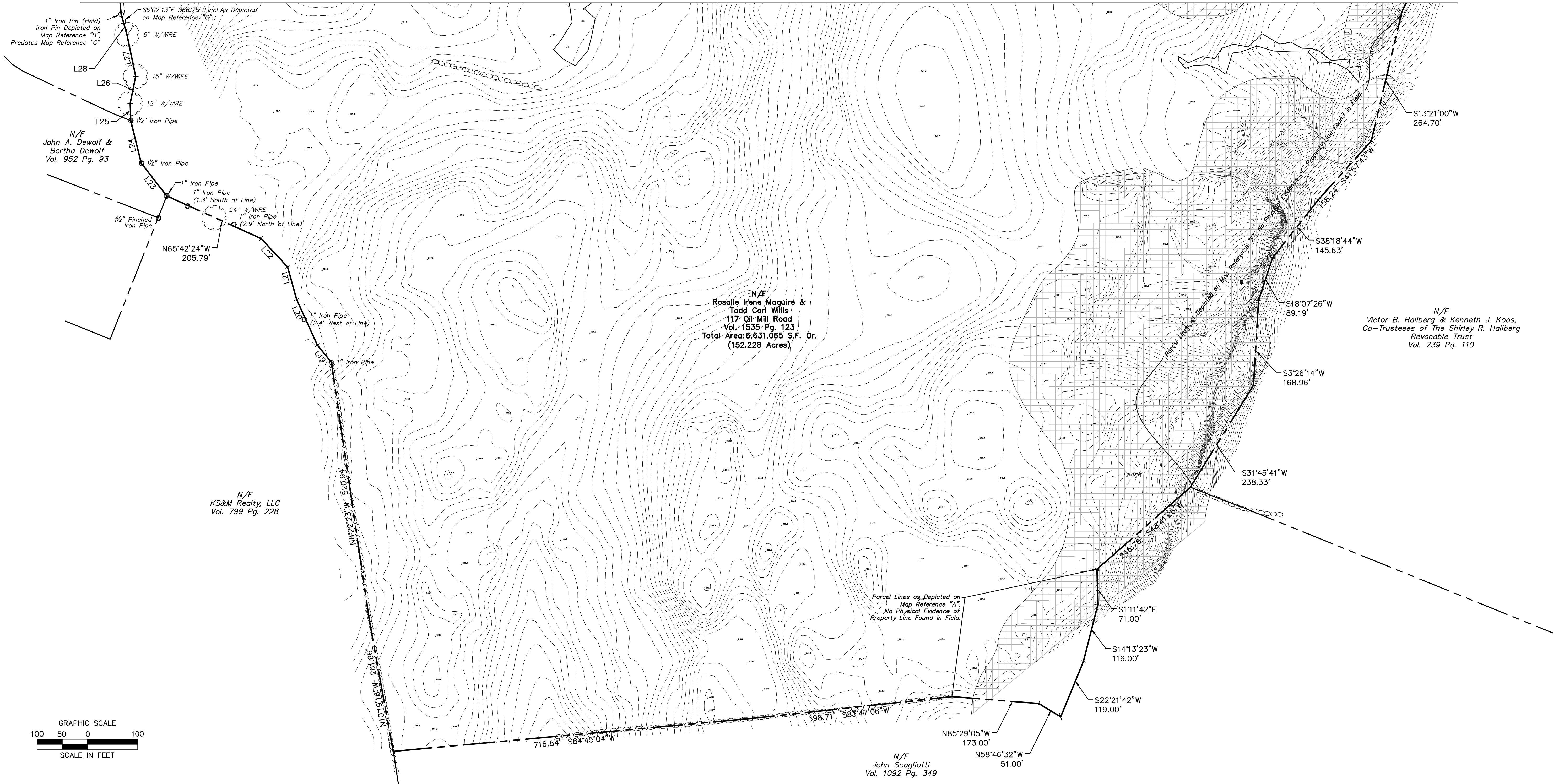
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Line Table			Line Table			Line Table		
Line #	Direction	Length (ft)	Line #	Direction	Length (ft)	Line #	Direction	Length (ft)
L1	N 27° 59' 52" E	55.18	L15	N 87° 27' 40" E	60.38	L29	N 05° 02' 35" W	117.66
L2	S 75° 32' 39" E	36.59	L16	N 85° 03' 09" E	79.20	L30	N 04° 37' 15" W	207.69
L3	N 88° 48' 53" E	31.12	L17	S 65° 18' 56" E	29.37	L31	N 02° 01' 32" W	55.03
L4	N 73° 31' 18" E	107.42	L18	S 73° 57' 46" E	58.40	L32	N 02° 20' 19" W	17.34
L5	N 13° 15' 04" W	8.28	L19	N 39° 05' 54" W	44.40	L33	N 04° 38' 16" W	49.37
L6	N 14° 24' 24" E	17.08	L20	N 24° 21' 09" W	99.55	L34	N 25° 21' 29" W	34.74
L7	N 45° 11' 11" E	22.36	L21	N 15° 27' 19" W	66.91	L35	N 43° 52' 10" W	10.74
L8	N 27° 32' 22" E	23.84	L22	N 42° 58' 29" W	77.22	L36	N 08° 25' 41" W	50.50
L9	N 77° 52' 03" E	19.12	L23	N 37° 52' 55" W	82.77	L37	N 00° 39' 54" E	21.55
L10	N 88° 03' 07" E	24.45	L24	N 13° 49' 05" W	86.87	L38	N 25° 32' 45" W	15.38
L11	N 67° 30' 14" E	12.22	L25	N 01° 44' 11" W	34.34	L39	N 06° 49' 36" W	50.00
L12	N 50° 13' 40" E	32.18	L26	N 11° 25' 11" E	54.86	L40	N 03° 05' 11" E	33.00
L13	N 79° 16' 06" E	45.36	L27	N 11° 52' 16" W	84.79	L41	N 42° 00' 53" W	26.55
L14	N 54° 51' 09" E	39.98	L28	N 15° 50' 40" W	42.11	L42	N 33° 17' 06" E	93.49

LEGEND	
	Property Line
	Easement Line
	FEMA FIRM Zone Line
	Limit of Wetlands
	Stone Wall
	Fence
	Edge of Water
	Treeline
	Major Contour
	Minor Contour
	Transmission Utility Pole
	Deciduous Tree
	Coniferous Tree

MATCHLINE ~ SEE SHEET 1 OF 2



Xref (g): 18170331501.dwg

REVISIONS	
No.	Date

Surveyed	AV/SB
Drawn	AV
Reviewed	RHR
Scale	1"=100'
Project No.	17D3315
Date	2/22/2018
Field Book	519
CAD File:	BS17D331501

Title
PROPERTY
SURVEY

Sheet No. 2 OF 2

BS-1

ROSALIE IRENE MAGUIRE &
TODD CARL WILLIS
117 OIL MILL ROAD
WATERFORD, CONNECTICUT