

GENERAL NOTES

- BOUNDARY INFORMATION IS BASED UPON A FIELD SURVEY CONDUCTED BY SLR AND TOPOGRAPHIC INFORMATION IS BASED ON GIS WITH LIMITED FIELD TOPO.
- INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "CALL BEFORE YOU DIG", 1-800-922-4455. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
- THE EXACT LOCATION AND SIZE OF ELECTRIC, TELEPHONE AND CABLE TELEVISION ARE TO BE DETERMINED BY THE RESPECTIVE UTILITY COMPANIES.
- ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS AND DESCRIBED WITHIN THE SEDIMENT AND EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CONNECTICUT - 2002, AND IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.
- ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 6" TOPSOIL AND BE SEEDED WITH GROUND COVER SEED MIX, AS SHOWN ON THE PLANS, ALL VEGETATIVE ESTABLISHMENT SHALL CONFORM TO THE "STANDARDS FOR ORGANIC LAND CARE, NORA CONNECTICUT 2011," AND IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.
- IN ALL CASES, TOPSOIL AND OTHER CONSTRUCTION MATERIALS SHALL BE DRAWN FROM THE ON-SITE STOCKPILES OF EXISTING MATERIAL. ONLY WHEN ON-SITE STOCKPILES HAVE BEEN USED SHALL MATERIAL BE IMPORTED TO THE SITE.
- ALL STORM DRAIN PIPE HDPE UNLESS OTHERWISE INDICATED.
- ALL PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATE FINISHED GRADE.
- ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO THE CITY OF TORRINGTON REQUIREMENTS AND TO THE APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM 818 AND ADDENDUMS
- THE PLANS REQUIRE A CONTRACTOR'S WORKING KNOWLEDGE OF LOCAL, MUNICIPAL, WATER AUTHORITY, AND STATE CODES FOR UTILITY SYSTEMS, ANY CONFLICTS BETWEEN MATERIALS AND LOCATIONS SHOWN, AND LOCAL REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE EXECUTION OF WORK. THE ENGINEER WILL NOT BE HELD LIABLE FOR COSTS INCURRED TO IMPLEMENT OR CORRECT WORK WHICH DOES NOT CONFORM TO LOCAL CODE.
- COMPLIANCE WITH THE PERMIT CONDITIONS IS THE RESPONSIBILITY OF BOTH THE CONTRACTOR AND THE PERMITEE.
- THE PROPERTY OWNER MUST MAINTAIN (REPAIR/REPLACE WHEN NECESSARY) THE SILTATION CONTROL UNTIL ALL DEVELOPMENT ACTIVITY IS COMPLETED AND ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
- A SUPPLY OF ABSORBENT SPILL RESPONSE MATERIAL SHOULD BE KEPT ON-SITE TO CLEAN UP ANY SPILLS OF HAZARDOUS MATERIALS.

CONSTRUCTION SEQUENCE

- PRIOR TO COMMENCEMENT OF WORK A PRECONSTRUCTION MEETING SHALL BE HELD WITH CITY STAFF AND REPRESENTATIVES OF THE CONTRACTOR AND OWNER. AT THIS MEETING, ONE PERSON WILL BE PLACED IN CHARGE OF SEDIMENT AND EROSION CONTROL FOR THE ENTIRE SITE.
- CONTRACTOR TO STAKE OUT LIMIT OF DISTURBANCE AND VEGETATION TO BE RETAINED. NO DISTURBANCE IS TO TAKE PLACE BEYOND THE LIMITS OF WORK SHOWN.
- CONTRACTOR TO INSTALL SEDIMENT AND EROSION CONTROLS ALONG THE PERIMETER, AND STABILIZED CONSTRUCTION ENTRANCES.
- CLEAR AND GRUB SITE AND STOCKPILE TOPSOIL. PLACE SEDIMENT FILTER FENCE AND HAYBALES AROUND STOCKPILES.
- CONTRACTOR TO INSTALL TEMPORARY SEDIMENT TRAPS PER THE SEDIMENT AND EROSION CONTROL PLAN.
- INITIATE MASS EARTHWORK OPERATIONS AFTER ALL BASINS, BERMS, SWALES, SILT FENCE & HAYBALES ARE INSTALLED
- INSTALL UTILITIES, RV SITES AND PARKING LOTS/DRIVEWAYS WHERE NOTED ON THE PLANS.
- SLOPES ARE TO BE ESTABLISHED AS SOON AS PRACTICAL BEFORE UTILITY INSTALLATION. STABILIZE ALL SLOPES IMMEDIATELY AFTER THEIR ESTABLISHMENT.
- THE SEDIMENT AND EROSION CONTROL PLAN SHALL BE MODIFIED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER AND DESIGNATED CITY REPRESENTATIVE AS NECESSITATED BY CHANGING SITE CONDITIONS.

GENERAL CONSTRUCTION NOTES

- TEMPORARY SEDIMENT BASINS SHALL BE INSPECTED AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER. CLEAN THE SEDIMENT BASIN WHEN SEDIMENT ACCUMULATION EXCEEDS ONE HALF THE WET STORAGE CAPACITY OF THE BASIN.
- SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER.
- INSPECTION OF THE SITE FOR EROSION SHALL CONTINUE FOR A PERSON OF THREE MONTHS AFTER COMPETITION WHEN RAINFALLS OF ONE INCH OR MORE OCCUR.
- THE SITE SHOULD BE KEPT CLEAN OF LOOSE DEBRIS, LITTER AND BUILDING MATERIALS SUCH THAT NONE OF THE ABOVE ENTER WATERS OR WETLANDS.
- A COPY OF ALL PLANS AND REVISIONS, AND THE SEDIMENT AND EROSION CONTROL PLAN SHALL BE MAINTAINED ON-SITE AT ALL TIMES DURING CONSTRUCTION.

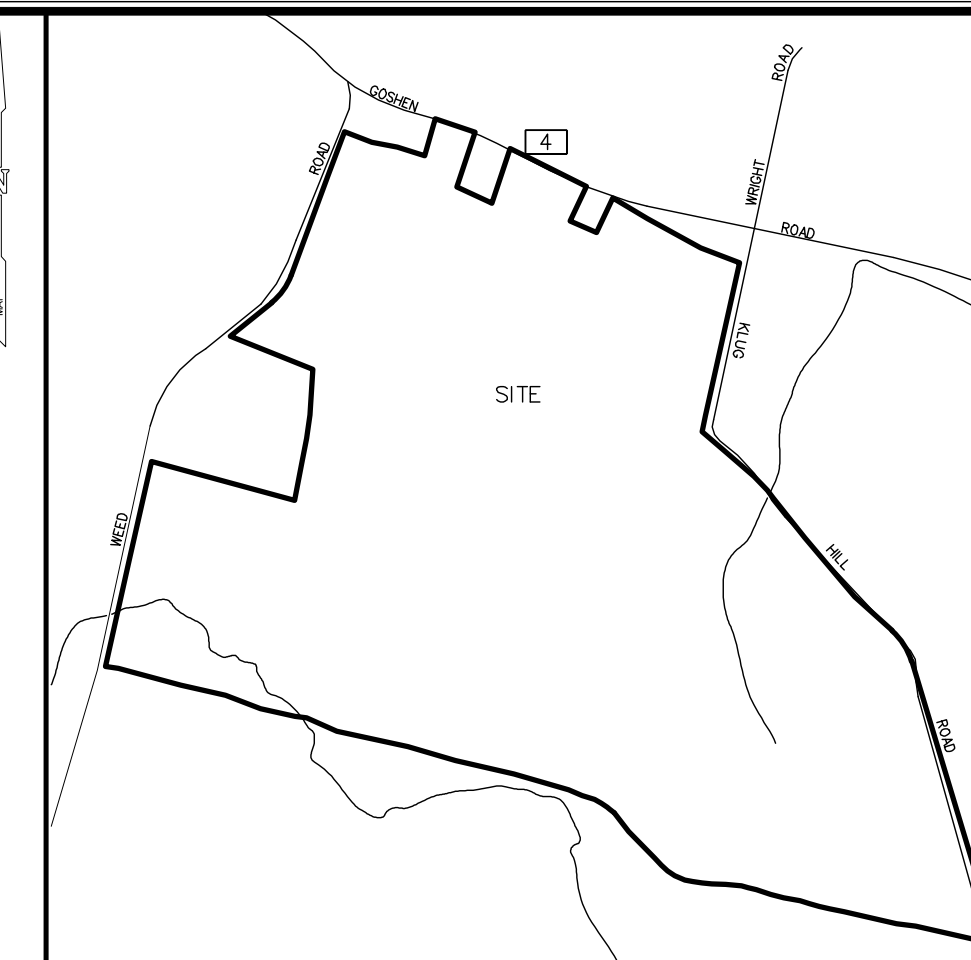
OPERATION AND MAINTENANCE PLAN (POST-CONSTRUCTION)

- ALL CATCH BASIN SUMPS SHOULD BE INSPECTED TWO TIMES PER YEAR AND SEDIMENT REMOVED WHEN IT EXTENDS TO WITHIN SIX INCHES OF THE OUTLET PIPE INVERT, NOT LESS THAN ONCE PER YEAR. THE SEDIMENT SHALL BE DISPOSED OF IN AN APPROVED LOCATION.
- A VEGETATIVE OR IMPROVED COVER SHALL BE MAINTAINED ON ALL EARTH SURFACES TO MINIMIZE SOIL EROSION. USE OF FERTILIZER SHOULD BE MINIMIZED AND APPLIED USING PRUDENT APPLICATION PROCEDURES.
- A LOG OF ALL INSPECTION AND CLEANING SHALL BE MAINTAINED BY THE OCCUPANT AND BE AVAILABLE FOR INSPECTION.
- DURING CONSTRUCTION AND FOR THREE MONTHS AFTER PROJECT COMPLETION INSPECTION OF SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MADE ON A WEEKLY BASIS AND AFTER RAINFALL EVENTS OF 1/2" OR GREATER. A LOG OF SUCH INSPECTIONS SHALL BE MAINTAINED AT THE SITE.

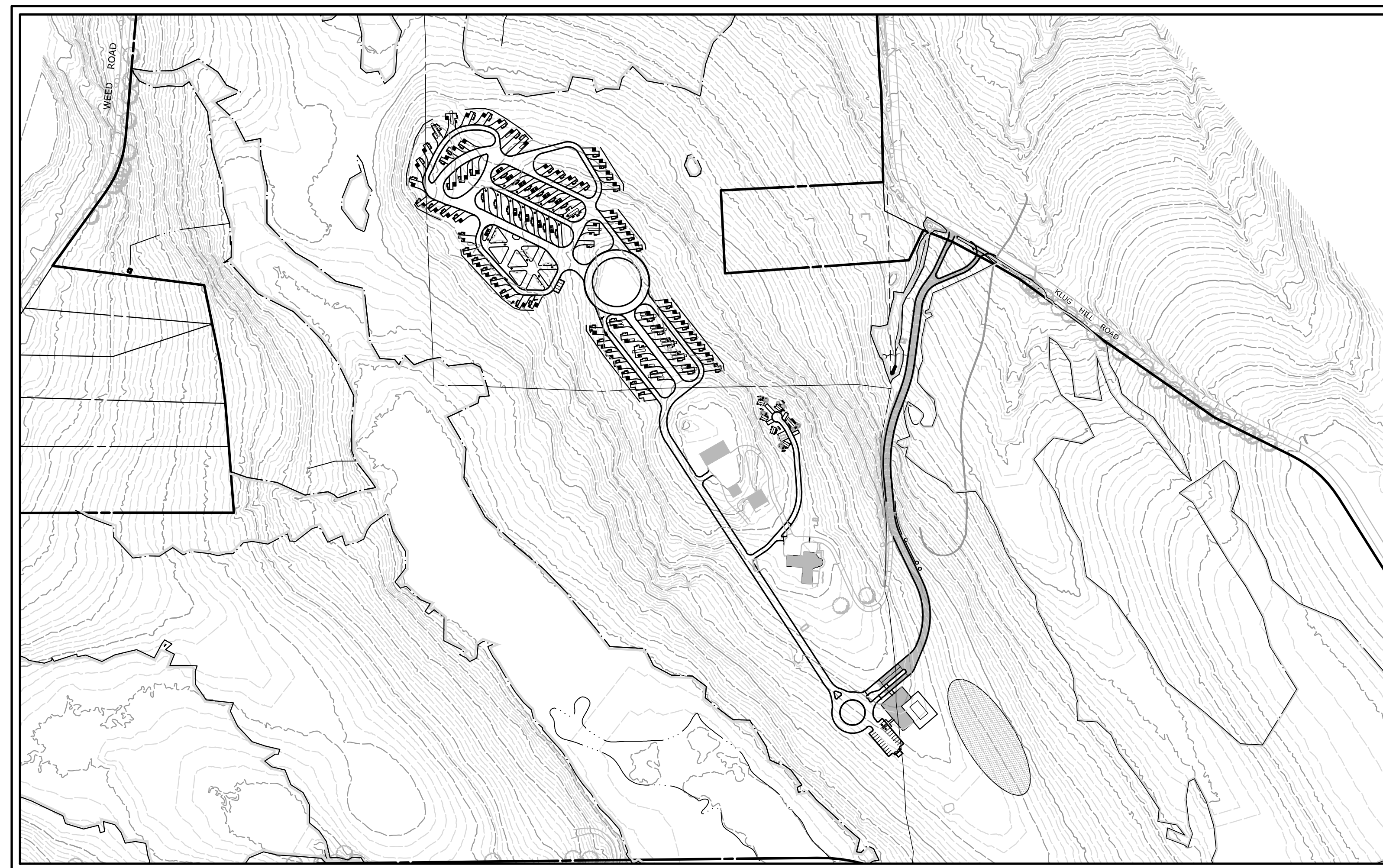
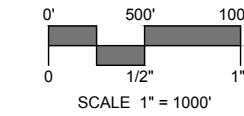
LITCHFIELDS HILLS CT KOA CAMPGROUND

232 KLUG HILL ROAD
TORRINGTON, CONNECTICUT

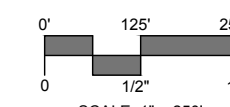
REGULATORY SUBMISSION
NOVEMBER 9, 2022
LAST REVISED: APRIL 13, 2023



LOCATION MAP:



PROJECT SITE VICINITY MAP:



PROJECT DATA

EXISTING ZONE:	R-60
PROPOSED USE:	RECREATIONAL VEHICLE PARK
TOTAL PARCEL AREA:	±225.87 AC.
TOTAL PROPOSED RV SITES:	92 SITES

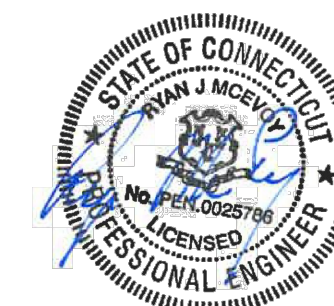
R-60 -DIMENSIONAL CRITERIA	REQ'D/PERMITTED	PROPOSED/PROVIDED
LOT AREA	60,000 SF (MIN)	±225.87 AC.
LOT WIDTH	200' (MIN)	>200'
FRONT YARD SETBACK	50' (MIN)	>50'
SIDE YARD SETBACK	25' (MIN)	>25'
REAR YARD SETBACK	100' (MIN)	>100'
IMPERVIOUS SURFACE RATIO	30% (MAX)	<30%
BUILDING COVERAGE RATIO	10% (MAX)	<10%

RV PARK -DIMENSIONAL CRITERIA	REQ'D/PERMITTED	PROPOSED/PROVIDED
LOT AREA	25 AC. (MIN)	±225.87 AC.
PARK DENSITY	1 SITE PER 40,000 SF (MIN)	1 SITE PER ±106,942 SF
RV SITE AREA	1500 SF (30' W X 50' D) (MIN)	>1500 SF PER SITE
SETBACK FROM ANY PROPERTY LINE	100' (MIN)	>100'
COMMON RECREATION AREA	150 SF PER SITE (MIN)	> 150 SF PER SITE

PREPARED BY:



99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
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OWNER:

GREENSTONE INVESTMENTS, INC
232 KLUG HILL ROAD
TORRINGTON, CT 06790

APPLICANT:

LELAH CAMPO
COZY HILLS II CAMPGROUND
1311 BANTAM ROAD
BANTAM, CT 06750

LIST OF DRAWINGS

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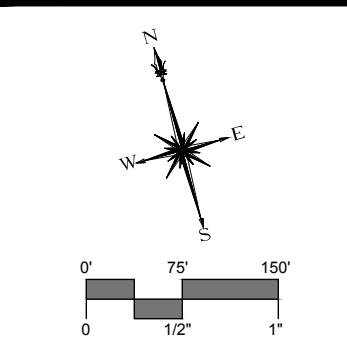


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LEGEND

- PROPERTY LINE
- - - MATCHLINE
- - - LIMIT OF UPLAND REVIEW AREA
- WETLAND
- WATERCOURSE
- PROJECT LIMITS
- STORMWATER BASIN EXTENTS
- SEPTIC LEACHING FIELD EXTENTS

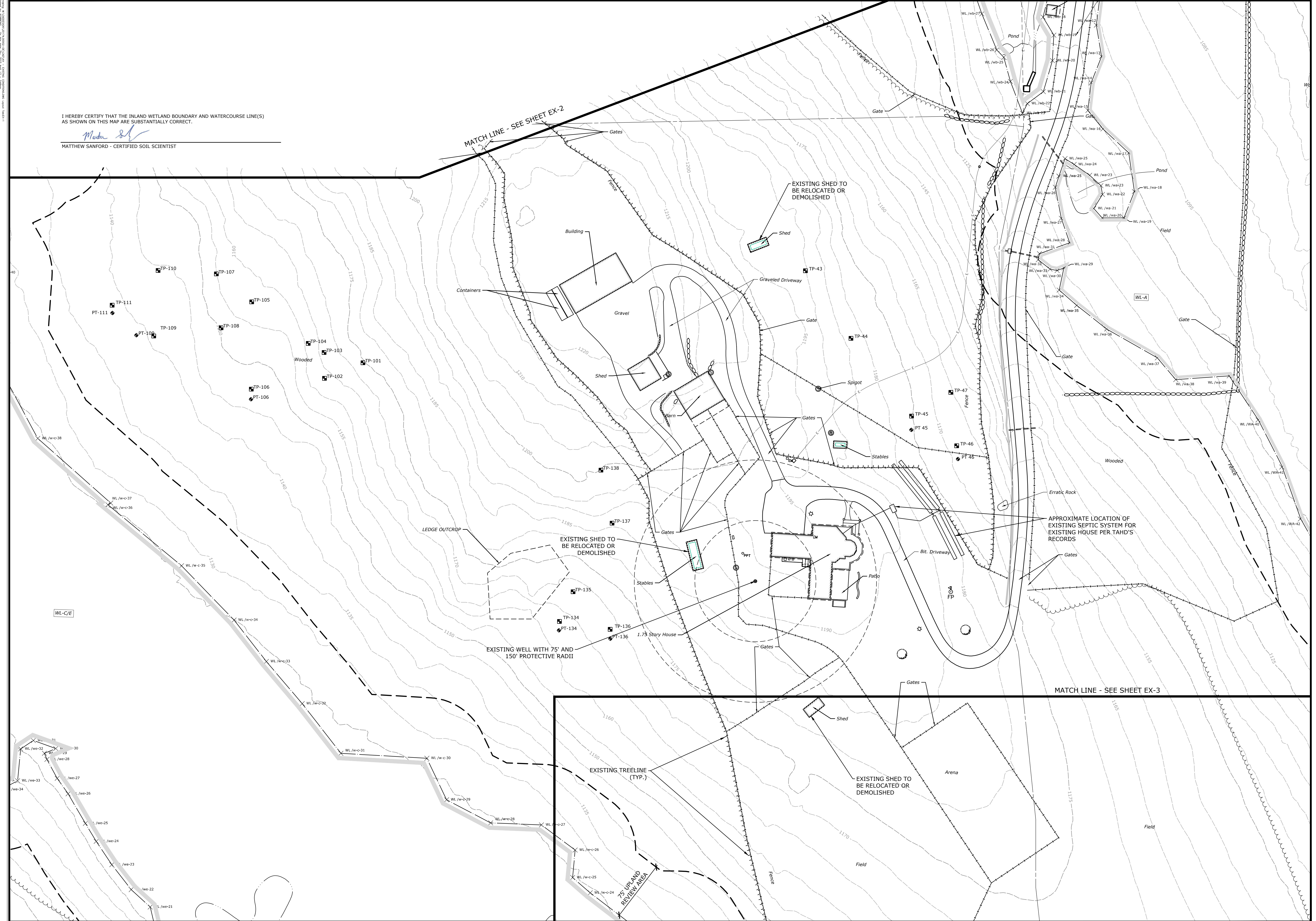


DESCRIPTION	DATE	BY
BASIN & LEACHING FIELD AREAS	11/02/2023	ACD
ADDITION OF PHASE 3	2/05/2023	ACD
REVISED PHASING	4/13/2023	ACD

INDEX & PHASING PLAN
 LITCHFIELDS HILLS CT
 KOA CAMPGROUND
 232 KLUG HILL ROAD
 TORRINGTON, CONNECTICUT

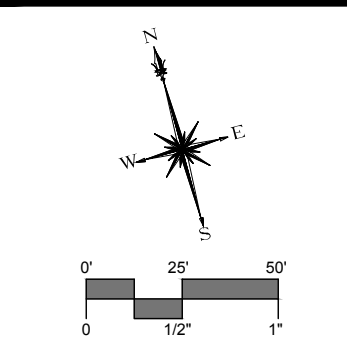
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DESIGNED	DRAWN	CHECKED
SCALE 1"=150'		
DATE NOVEMBER 9, 2022		
PROJECT NO. 20174.00002		
SHEET NO. 02 OF 30		

IN
 SHEET NAME
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I HEREBY CERTIFY THAT THE INLAND WETLAND BOUNDARY AND WATERCOURSE LINE(S) AS SHOWN ON THIS MAP ARE SUBSTANTIALLY CORRECT.

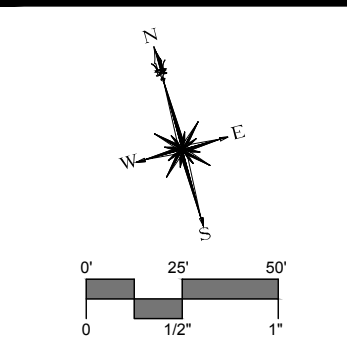
Matthew Sanford
 MATTHEW SANFORD - CERTIFIED SOIL SCIENTIST



DESCRIPTION	DATE	BY	ACD
REVISIONS	11/02/2023	ACD	
EX-3 MATCHLINE	4/12/2023	ACD	

SITE PLAN - EXISTING CONDITIONS
 LITCHFIELDS HILLS CT
 KOA CAMPGROUND
 232 KLUG HILL ROAD
 TORRINGTON, CONNECTICUT

ACD	ACD	RJM
DESIGNED	DRAWN	CHECKED
SCALE 1"=50'		
DATE NOVEMBER 9, 2022		
PROJECT NO. 20174.00002		
SHEET NO. 03 OF 30		
EX-1		



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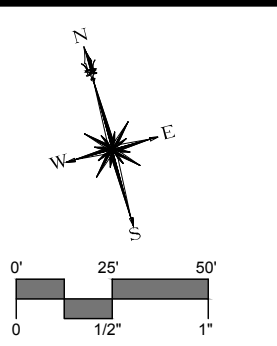
DESCRIPTION	DATE	BY
TYP0 FX	11/02/2023	ACD

SITE PLAN - EXISTING CONDITIONS
 LITCHFIELDS HILLS CT
 KOA CAMPGROUND
 232 KLUG HILL ROAD
 TORRINGTON, CONNECTICUT

ACD	ACD	RJM
DESIGNED	DRAWN	CHECKED
SCALE: 1"=50'		
DATE: NOVEMBER 9, 2022		
PROJECT NO.: 20174.00002		
SHEET NO.: 04 OF 30		

EX-2

I HEREBY CERTIFY THAT THE INLAND WETLAND BOUNDARY AND WATERCOURSE LINE(S) AS SHOWN ON THIS MAP ARE SUBSTANTIALLY CORRECT.
 Matthew Sanford
 MATTHEW SANFORD - CERTIFIED SOIL SCIENTIST



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DESCRIPTION	DATE	BY

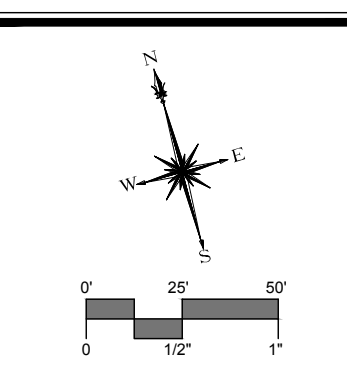
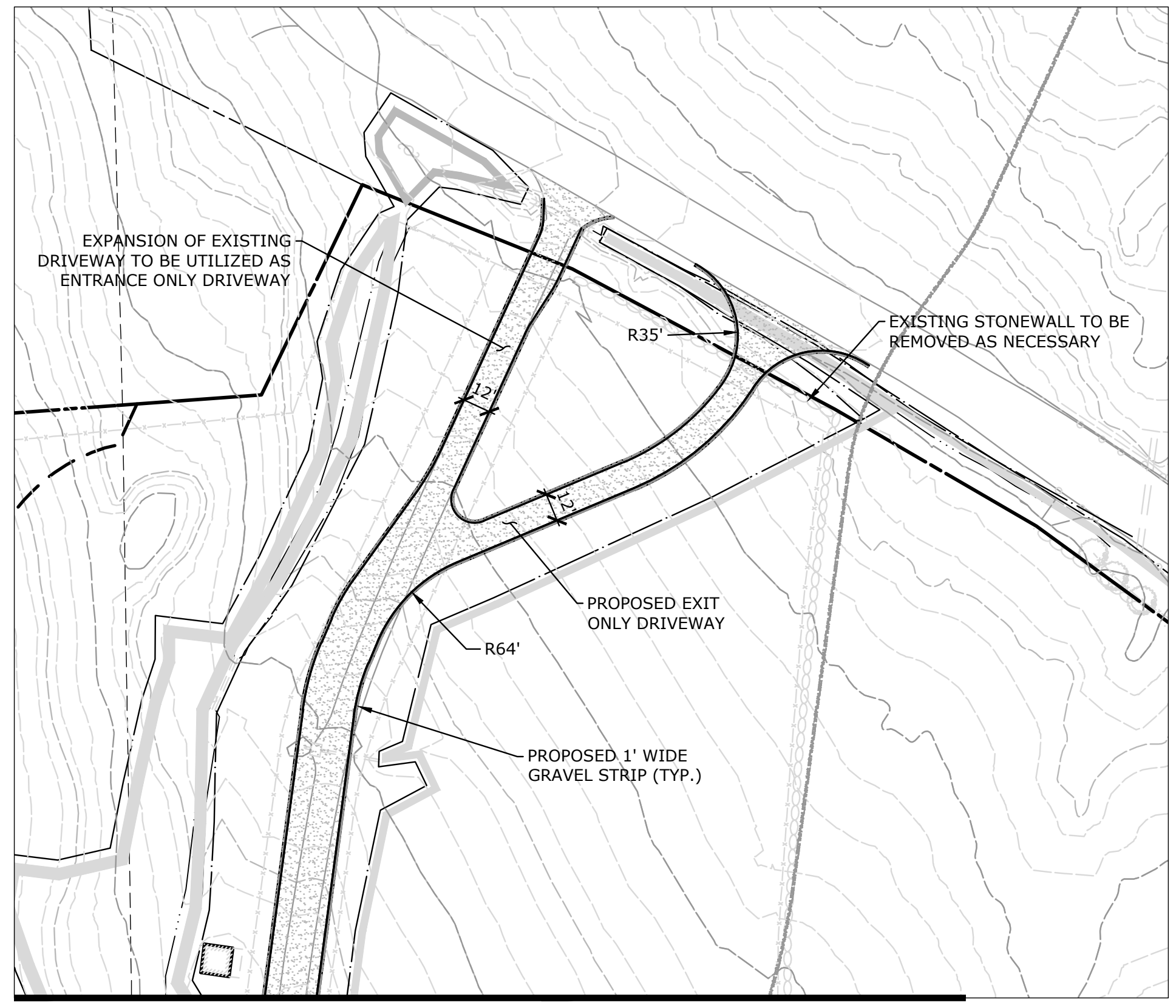
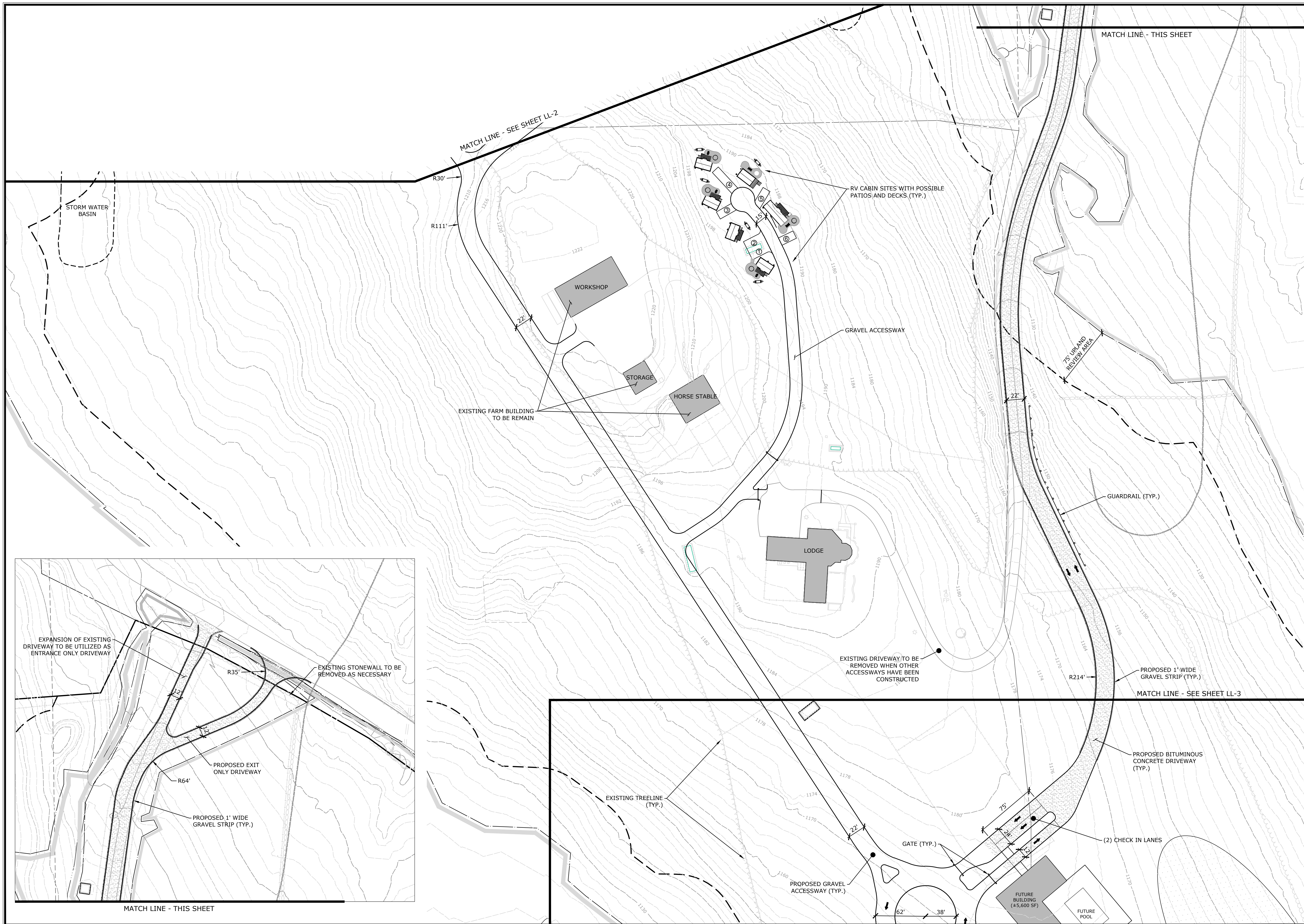
SITE PLAN - EXISTING CONDITIONS
 LITCHFIELDS HILLS CT
 KOA CAMPGROUND
 232 KLUG HILL ROAD
 TORRINGTON, CONNECTICUT

ACD DESIGNED	ACD DRAWN	RJM CHECKED
SCALE 1"=50'		
DATE APRIL 13, 2023		
PROJECT NO. 20174.00002		
SHEET NO. 05 OF 30		

EX-3

LITCHFIELDS HILLS CAMPGROUND - EXISTING CONDITIONS - SHEET EX-3 OF 30 - TORRINGTON, CT
 DATE: 04/13/2023
 TIME: 10:00 AM
 DRAWN BY: JRM
 CHECKED BY: RJM
 DESIGNED BY: ACD

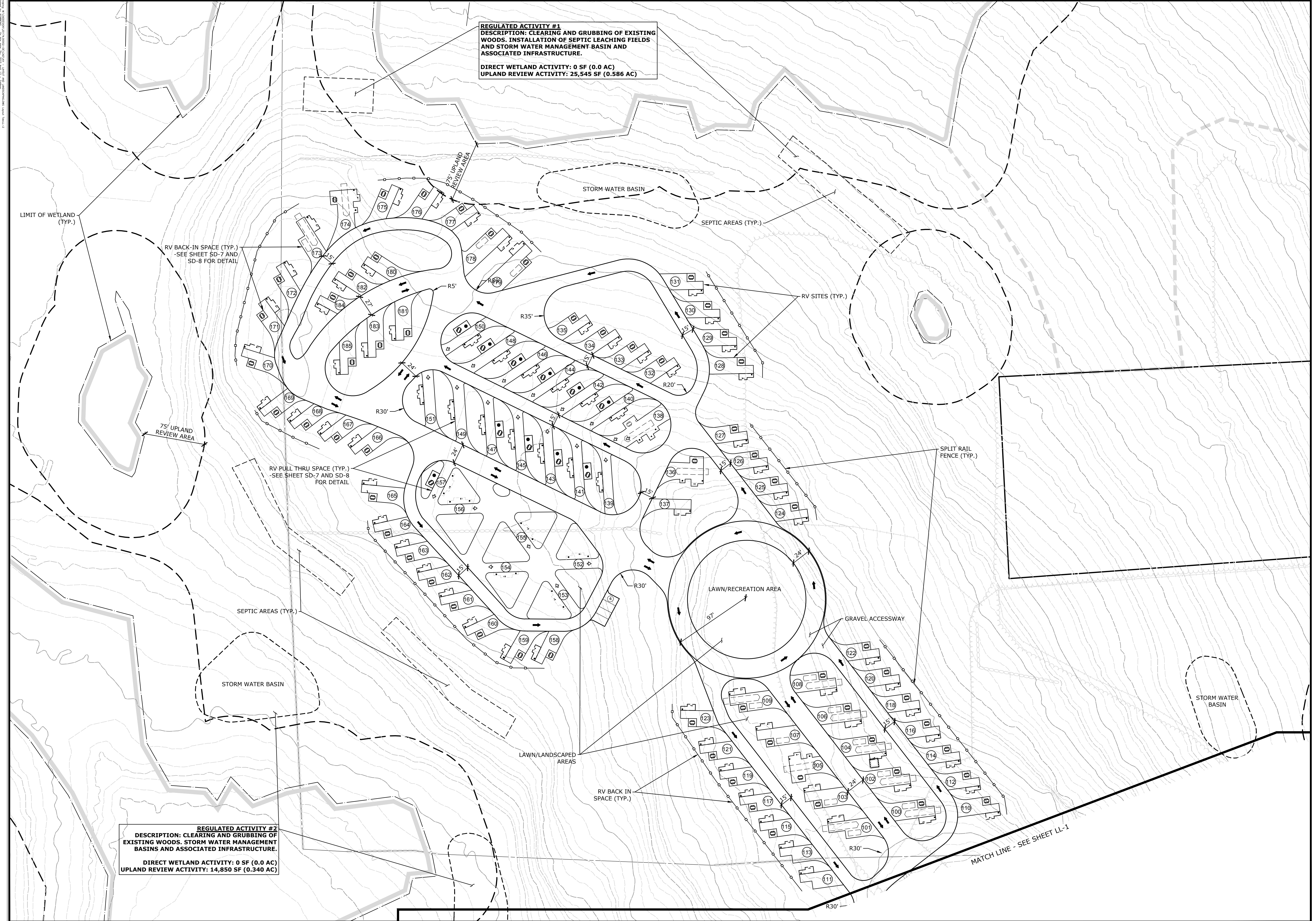
SHEET: 21.000.0002 (REV. 09/2022) DATE: 09/20/2022
 PROJECT: 20174.00002 (REV. 09/2022) DATE: 09/20/2022



DESCRIPTION	DATE	BY
CITY STAFF COMMENTS	11/02/2023	ACD
EX LUG ELECTRIC CONDUIT	10/23/2023	ACD
DRIVEWAY REVISIONS	2/02/2023	KUG

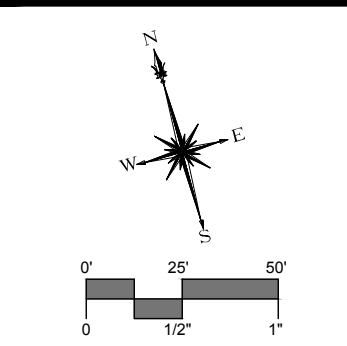
SITE PLAN - LAYOUT & LANDSCAPING
 LITCHFIELDS HILLS CT
 KOA CAMPGROUND
 232 KLUG HILL ROAD
 TORRINGTON, CONNECTICUT

ACD	ACD	RJM
DESIGNED	DRAWN	CHECKED
SCALE: 1"=50'		
DATE: NOVEMBER 9, 2022		
PROJECT NO.: 20174.00002		
SHEET NO.: 06 OF 30		
SHEET NAME: LL-1		



REGULATED ACTIVITY #1
 DESCRIPTION: CLEARING AND GRUBBING OF EXISTING WOODS. INSTALLATION OF SEPTIC LEACHING FIELDS AND STORM WATER MANAGEMENT BASIN AND ASSOCIATED INFRASTRUCTURE.
 DIRECT WETLAND ACTIVITY: 0 SF (0.0 AC)
 UPLAND REVIEW ACTIVITY: 25,545 SF (0.586 AC)

REGULATED ACTIVITY #2
 DESCRIPTION: CLEARING AND GRUBBING OF EXISTING WOODS. STORM WATER MANAGEMENT BASINS AND ASSOCIATED INFRASTRUCTURE.
 DIRECT WETLAND ACTIVITY: 0 SF (0.0 AC)
 UPLAND REVIEW ACTIVITY: 14,850 SF (0.340 AC)

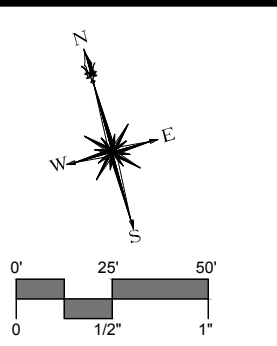


DESCRIPTION	DATE	BY
CITY STAFF COMMENTS	11/02/2023	ACD

SITE PLAN - LAYOUT & LANDSCAPING
 LITCHFIELDS HILLS CT
 KOA CAMPGROUND
 232 KLUG HILL ROAD
 TORRINGTON, CONNECTICUT

ACD	ACD	RJM
DESIGNED	DRAWN	CHECKED
SCALE: 1"=50'		
DATE: NOVEMBER 9, 2022		
PROJECT NO.: 20174.00002		
SHEET NO.: 07 OF 30		

LL-2
 SHEET NAME



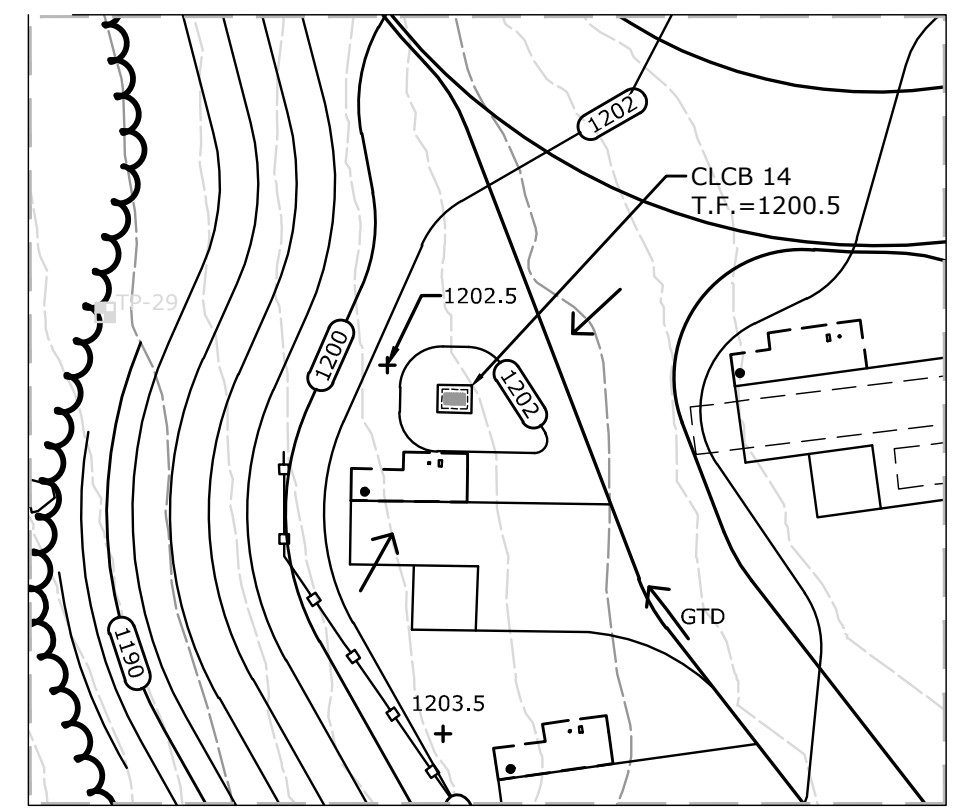
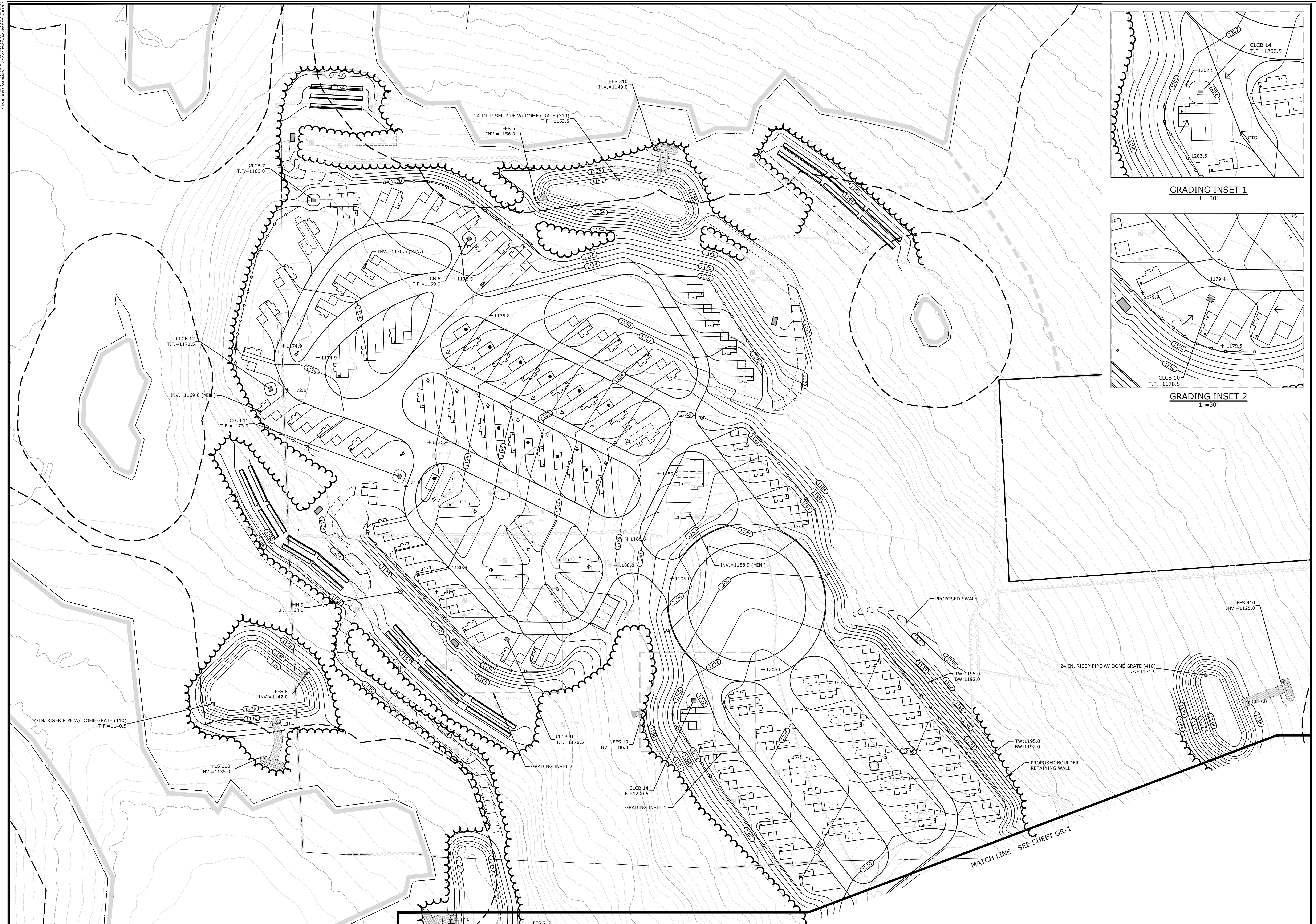
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 TORRINGTON, CT 06460
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DESCRIPTION	DATE	BY
LAYOUT CHANGES	4/13/2023	ACD

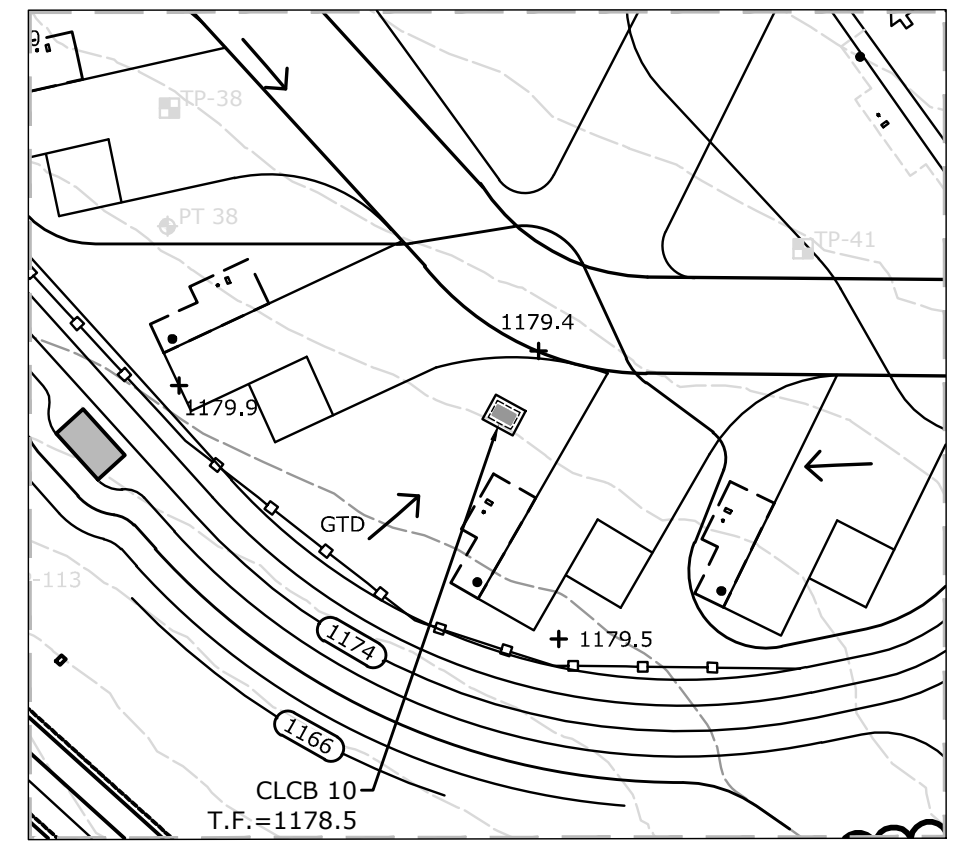
SITE PLAN - GRADING
 LITCHFIELDS HILLS CT
 KOA CAMPGROUND
 232 KLUG HILL ROAD
 TORRINGTON, CONNECTICUT

ACD	ACD	RJM
DESIGNED	DRAWN	CHECKED
SCALE		
1"=50'		
DATE		
FEBRUARY 6, 2023		
PROJECT NO.		
20174.00002		
SHEET NO.		
09 OF 30		

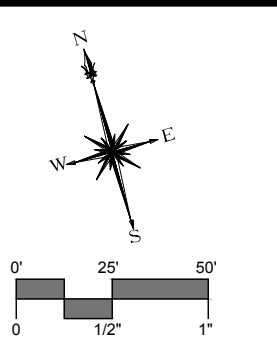
GR-1



GRADING INSET 1
1"=30'



GRADING INSET 2
1"=30'



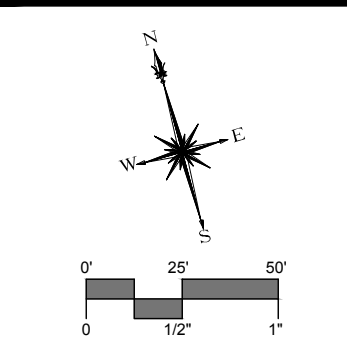
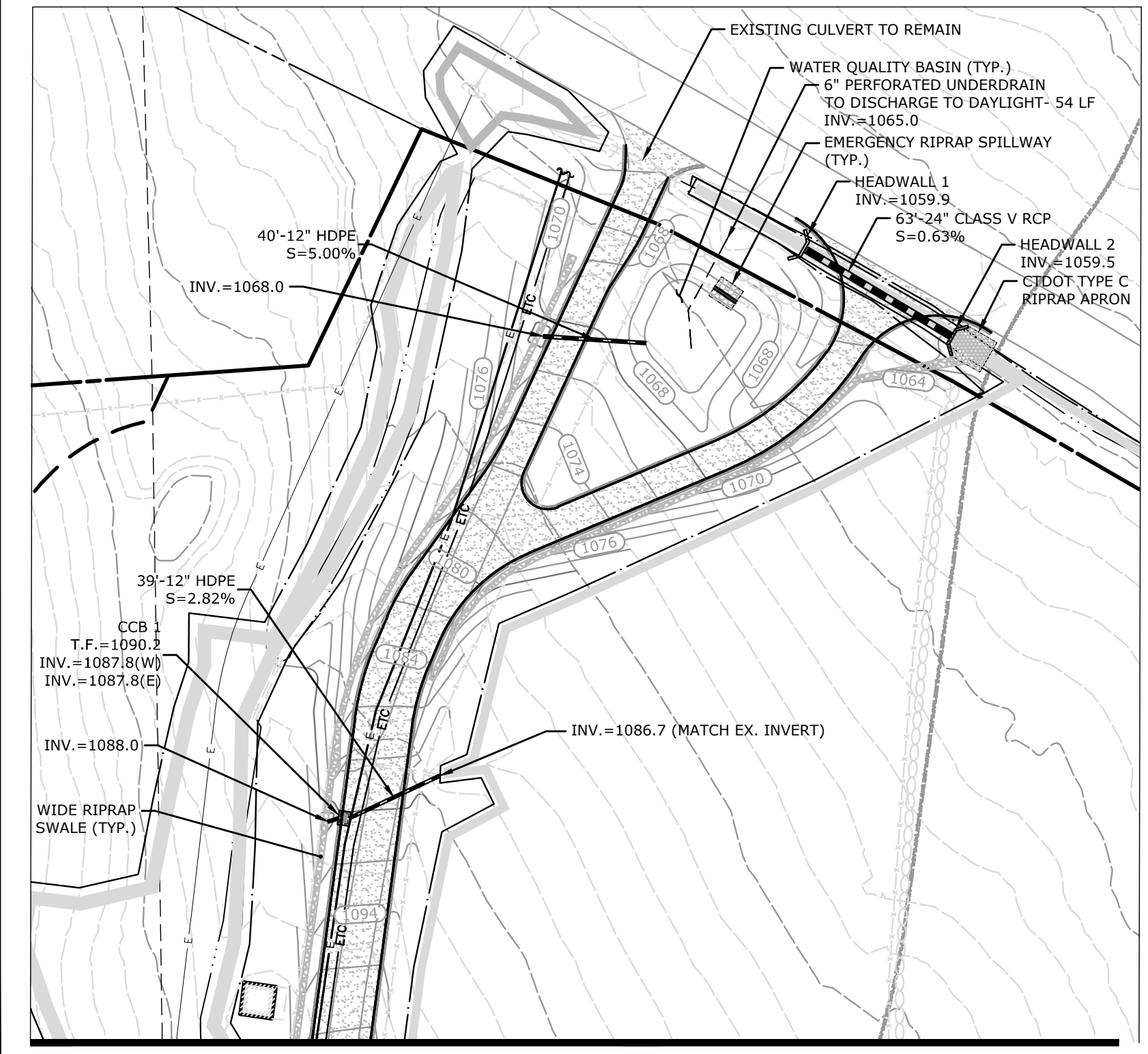
DESCRIPTION	DATE	BY

SITE PLAN - GRADING
LITCHFIELDS HILLS CT
KOA CAMPGROUND
232 KLUG HILL ROAD
TORRINGTON, CONNECTICUT

ACD	ACD	RJM
DESIGNED	DRAWN	CHECKED
SCALE 1"=50'		
DATE FEBRUARY 6, 2023		
PROJECT NO. 20174.00002		
SHEET NO. 10 OF 30		

GR-2

- UTILITY NOTES:**
- COORDINATION SHALL BE MADE WITH TORRINGTON AREA HEALTH DISTRICT PRIOR TO ANY WORK BEING PERFORMED ON THE WATER SERVICES THROUGHOUT THE PROJECT SITE.
 - COORDINATION SHALL BE MADE WITH TORRINGTON AREA HEALTH DISTRICT TO ANY WORK BEING PERFORMED ON SEPTIC SERVICES THROUGHOUT THE PROJECT SITE.
 - COORDINATION SHALL BE MADE WITH NORTHEAST UTILITIES SERVICE COMPANY/EVERSOURCE ENERGY PRIOR TO ANY WORK BEING PERFORMED ON THE ELECTRICAL SERVICES THROUGHOUT THE PROJECT SITE.
 - ELECTRICAL/TELECOMMUNICATIONS CONDUITS AND STRUCTURES ARE CONSIDERED APPROXIMATE AND BASED ON ELECTRICAL PLANS PREPARED BY C&H ELECTRIC.
 - REFER TO MEP PLANS FOR ALL SERVICE CONNECTION LOCATIONS AND ELEVATIONS AT THE EXISTING BUILDING, INCLUDING BUT NOT LIMITED TO ROOF LEADER CONNECTIONS, WATER, GAS, ELECTRIC AND SANITARY SERVICES.
 - LOCATIONS OF ALL EXISTING UTILITIES ARE APPROXIMATE.
 - CALL BEFORE YOU DIG TO BE CONDUCTED AND PAINT MARKINGS TO BE FIELD IDENTIFIED PRIOR TO CONSTRUCTION.
 - ALL STORM SEWER PIPES SHALL BE SMOOTH LINED CORRUGATED HDPE. ALL SANITARY SEWER PIPES SHALL BE PVC SDR-35.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AN ENCROACHMENT PERMIT AS REQUIRED BY THE CITY OF TORRINGTON PUBLIC WORKS DEPARTMENT FOR ALL WORK WITHIN THE CITY RIGHT-OF-WAY, INCLUDING BUT NOT LIMITED TO UTILITY WORK AND EXCAVATION.

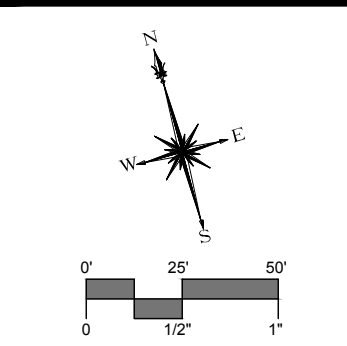
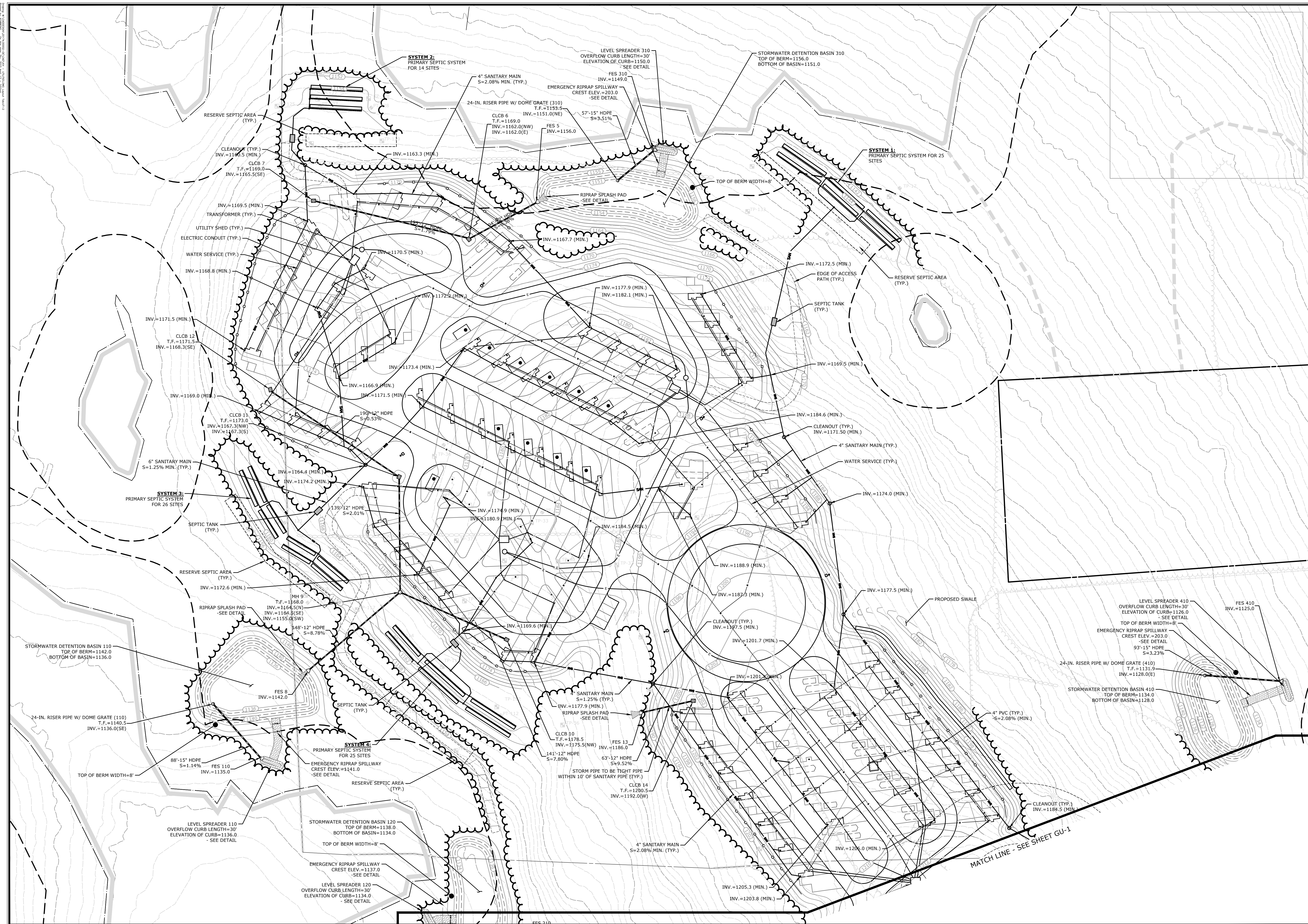


DESCRIPTION	DATE	BY	ACD
LAYOUT CHANGES	4/13/2023		

SITE PLAN - UTILITIES
LITCHFIELDS HILLS CT
KOA CAMPGROUND
 232 KLUG HILL ROAD
 TORRINGTON, CONNECTICUT

ACD	ACD	RJM
DESIGNED	DRAWN	CHECKED
SCALE: 1"=50'		
DATE: FEBRUARY 6, 2023		
PROJECT NO.: 20174.00002		
SHEET NO.: 12 OF 30		

UT-1



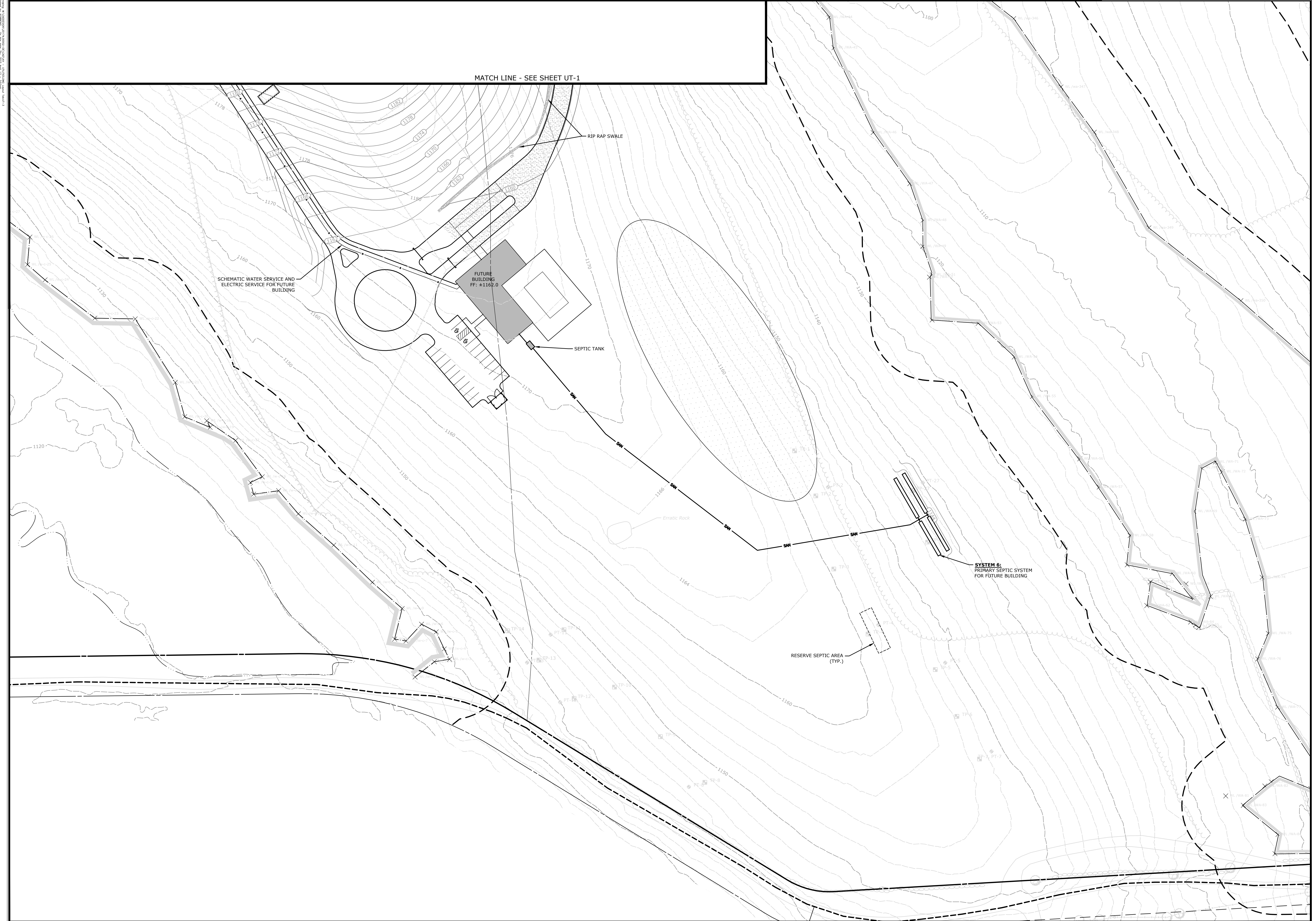
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DESCRIPTION	DATE	BY

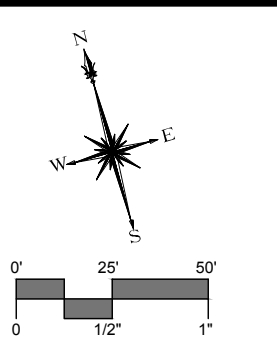
SITE PLAN - UTILITIES
 LITCHFIELDS HILLS CT
 KOA CAMPGROUND
 232 KLUG HILL ROAD
 TORRINGTON, CONNECTICUT

ACD	ACD	RJM
DESIGNED	DRAWN	CHECKED
SCALE: 1"=50'		
DATE: FEBRUARY 6, 2023		
PROJECT NO.: 20174.00002		
SHEET NO.: 13 OF 30		

UT-2



MATCH LINE - SEE SHEET UT-1



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DESCRIPTION	DATE	BY

SITE PLAN - UTILITIES
 LITCHFIELDS HILLS CT
 KOA CAMPGROUND
 232 KLUG HILL ROAD
 TORRINGTON, CONNECTICUT

ACD DESIGNED	ACD DRAWN	RJM CHECKED
SCALE 1"=50'		
DATE APRIL 13, 2023		
PROJECT NO. 20174.00002		
SHEET NO. 14 OF 30		

UT-3

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SOIL EROSION AND SEDIMENT CONTROL NARRATIVE

SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS AND DESCRIBED WITHIN THE SEDIMENT AND EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CONNECTICUT - 2002, TOWN OF TORRINGTON REQUIREMENTS, AND IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.

1. PURPOSE AND DESCRIPTION OF PROJECT
 A.) THE CONSTRUCTION OF A 92 SITE RV PARK DEVELOPMENT
 B.) DISTURBED AREA: ±30.0 AC.

2. IDENTIFICATION OF EROSION AND SEDIMENT CONTROL CONCERNS
 A.) CUTS AND FILLS ASSOCIATED WITH CONSTRUCTION.
 B.) PROTECTION OF OFFSITE DRAINAGE SYSTEMS.
 C.) PROTECTION OF ON-SITE WETLANDS

3. IDENTIFICATION OF OTHER POSSIBLE PERMITS
 THE PERMITS REQUIRED FOR THE PROJECT ARE LOCAL INLAND WETLANDS, PLANNING AND ZONING PERMITS.

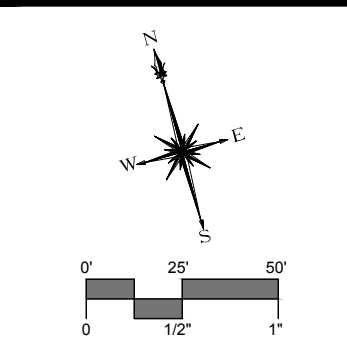
TEMPORARY SEDIMENT TRAP SIZING SUMMARY				
TRAP NO.	ACRES	VOLUME STORAGE REQUIRED	DEPTH STORAGE REQUIRED	VOLUME PROVIDED
#1	±5.0	670 CY	3.0 FT.	722 CY
#2	±5.0	670 CY	3.0 FT.	722 CY

*134 CY STORAGE VOLUME REQUIRED PER ACRE CONTRIBUTING AREA TO TST



EROSION CONTROL LEGEND

	TST	TEMPORARY SEDIMENT TRAP		IP	INLET PROTECTION
	CE	CONSTRUCTION ENTRANCE (50 L.F. MIN.)		DB	DIVERSION BERM
	HB	STACKED HAYBALES		SCD	STONE CHECK DAM
	GSF	SEDIMENT FILTER FENCE		STK	SOIL STOCKPILE AREA
	ECB	EROSION CONTROL BLANKET			



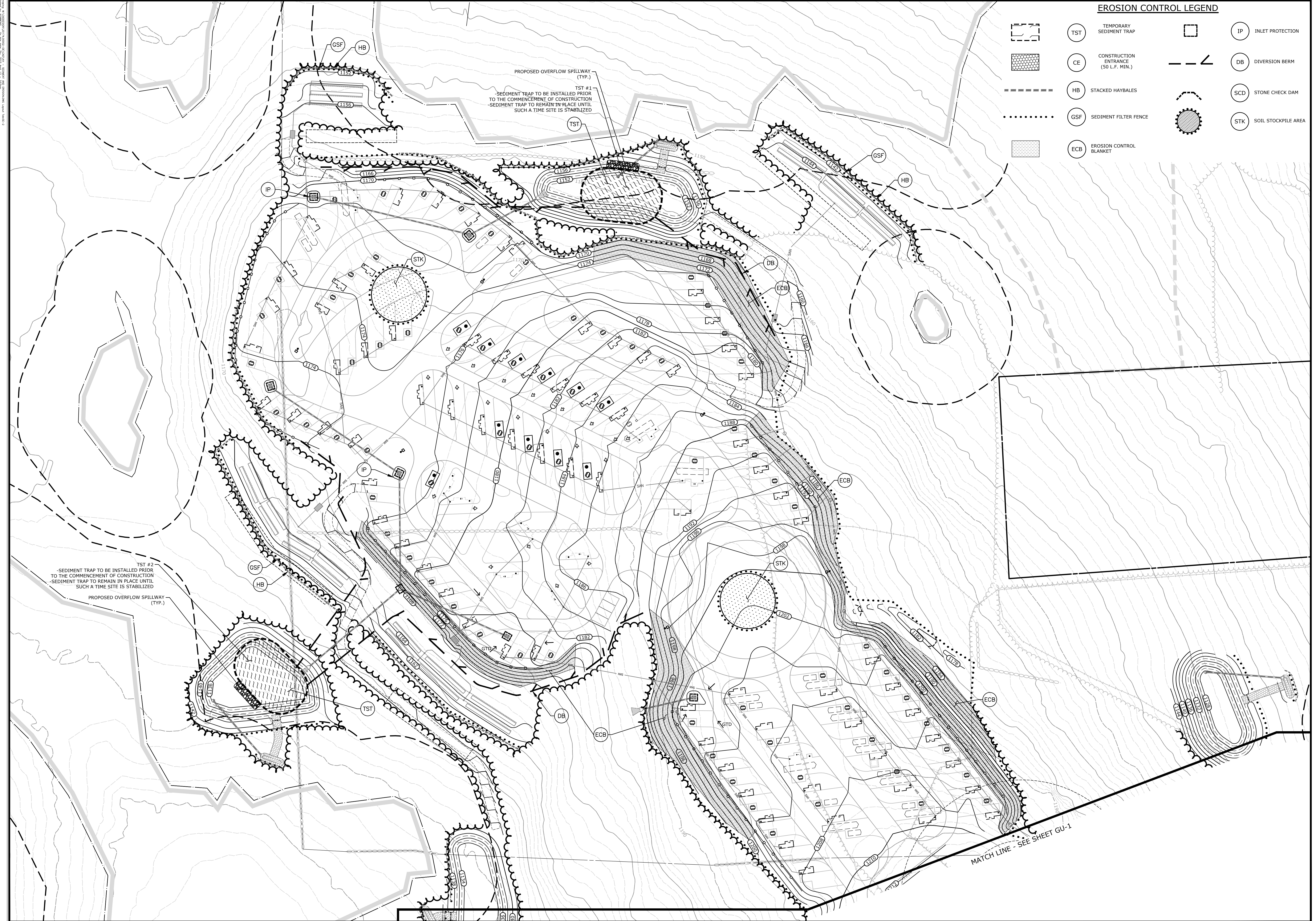
DESCRIPTION	DATE	BY
CITY STAFF COMMENTS	11/02/2023	ACD
DRIVEWAY LAYOUT	2/8/2023	ACD
LAYOUT CHANGES	4/12/2023	ACD

SITE PLAN - SEDIMENT & EROSION CONTROL PLAN
 LITCHFIELDS HILLS CT
 KOA CAMPGROUND
 232 KLUG HILL ROAD
 TORRINGTON, CONNECTICUT

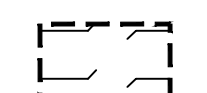
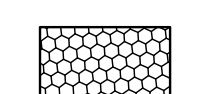


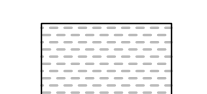
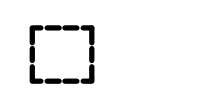
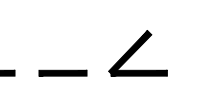

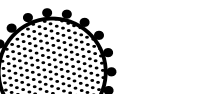
ACD	MLA	RJM
DESIGNED	DRAWN	CHECKED

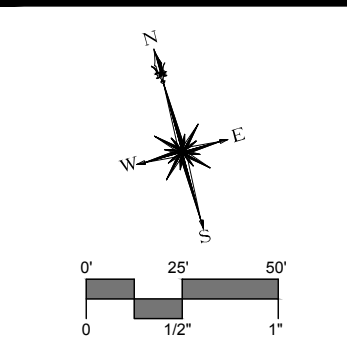
SCALE: 1"=50'
 DATE: NOVEMBER 9, 2022
 PROJECT NO.: 20174.00002
 SHEET NO.: 15 OF 30

SE-1



EROSION CONTROL LEGEND

-  TST TEMPORARY SEDIMENT TRAP
-  CE CONSTRUCTION ENTRANCE (50 L.F. MIN.)
-  HB STACKED HAYBALES
-  GSF SEDIMENT FILTER FENCE
-  ECB EROSION CONTROL BLANKET
-  IP INLET PROTECTION
-  DB DIVERSION BERM
-  SCD STONE CHECK DAM
-  STK SOIL STOCKPILE AREA



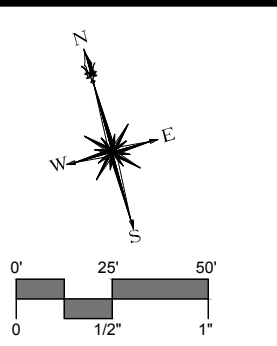
DESCRIPTION	DATE	BY
CITY STAFF COMMENTS	11/02/2023	ACD

SITE PLAN - SEDIMENT & EROSION CONTROL PLAN
LITCHFIELDS HILLS CT
KOA CAMPGROUND
 232 KLUG HILL ROAD
 TORRINGTON, CONNECTICUT

ACD	MLA	RJM
DESIGNED	DRAWN	CHECKED
SCALE: 1"=50'		
DATE: NOVEMBER 9, 2022		
PROJECT NO.: 20174.00002		
SHEET NO.: 16 OF 30		

SE-2

TORRINGTON, CONNECTICUT
 06460
 203.271.7171
 SLRCONSULTING.COM



SLR
 99 REALTY DRIVE
 SUITE 100
 TORRINGTON, CT 06861
 TEL: 203.771.7171
 WWW.SLRCONSULTING.COM

DESCRIPTION	DATE	BY

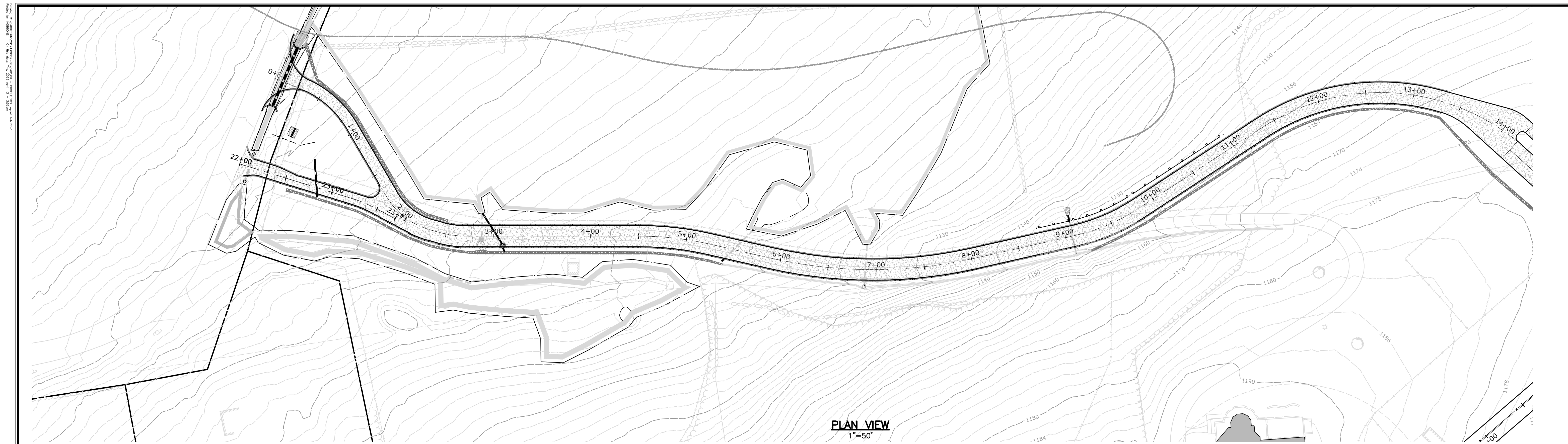
SITE PLAN - SEDIMENT & EROSION CONTROL PLAN
 LITCHFIELDS HILLS CT
 KOA CAMPGROUND
 232 KLUG HILL ROAD
 TORRINGTON, CONNECTICUT

ACD DESIGNED	MLA DRAWN	RJM CHECKED
SCALE 1"=50'		
DATE APRIL 13, 2023		
PROJECT NO. 20174.00002		
SHEET NO. 17 OF 30		

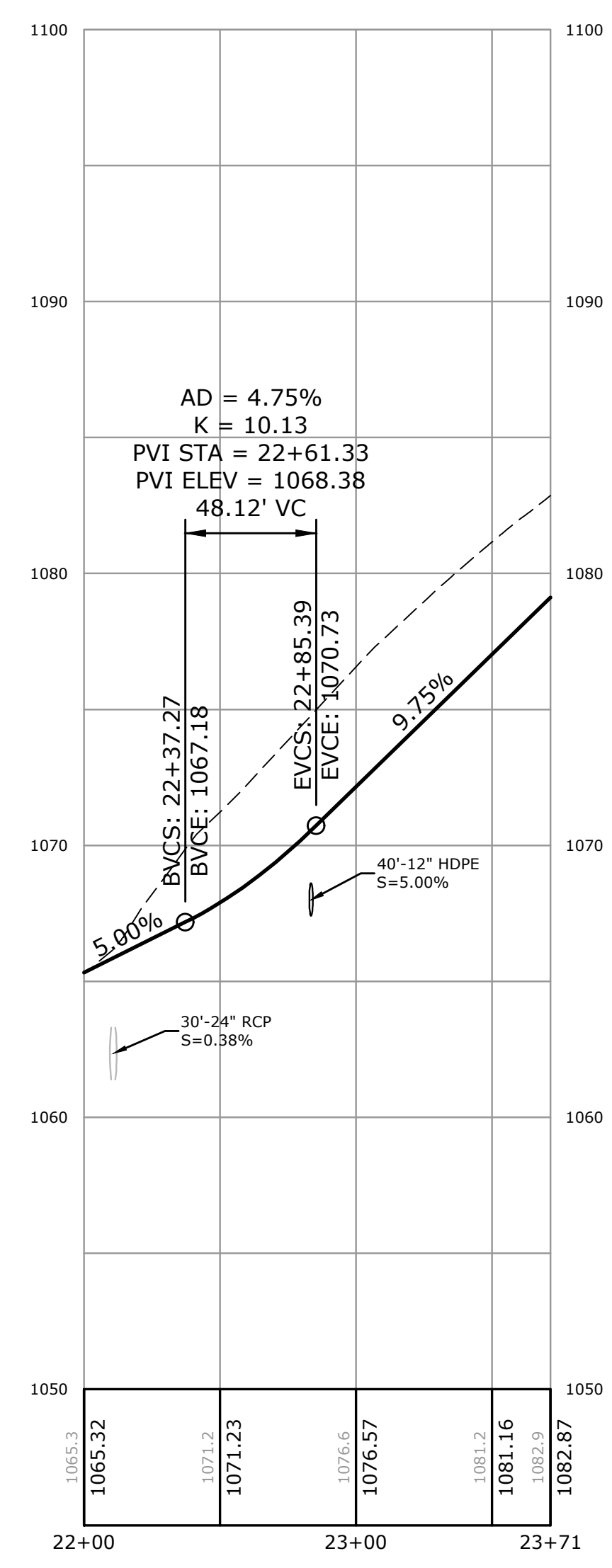
SE-3

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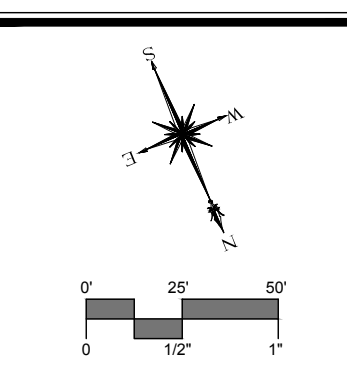
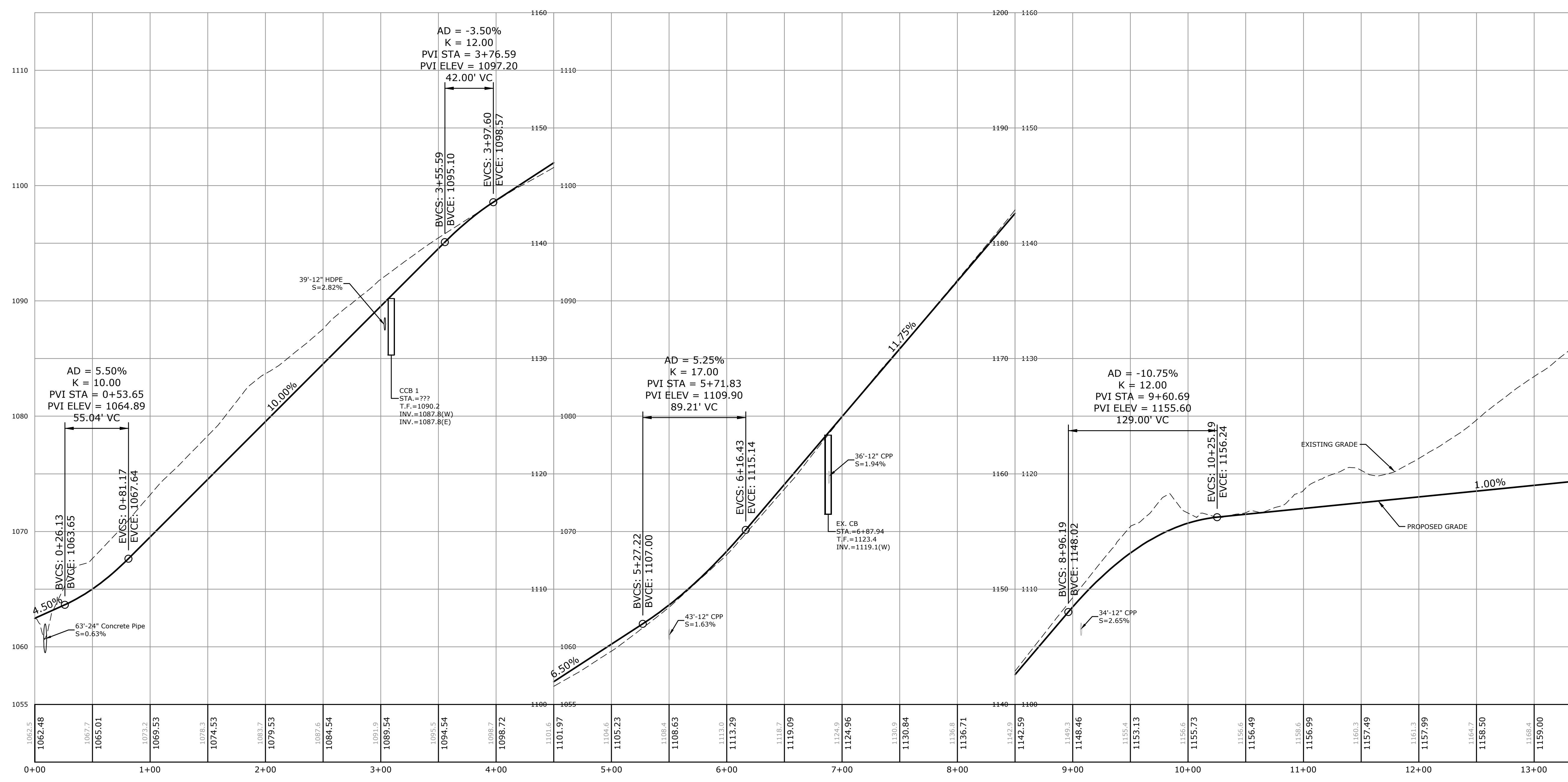
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PLAN VIEW
1"=50'



PROFILE VIEW
1"=50' H
1"=5' V

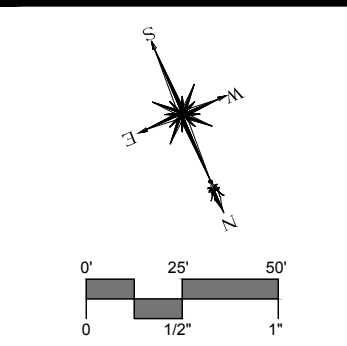
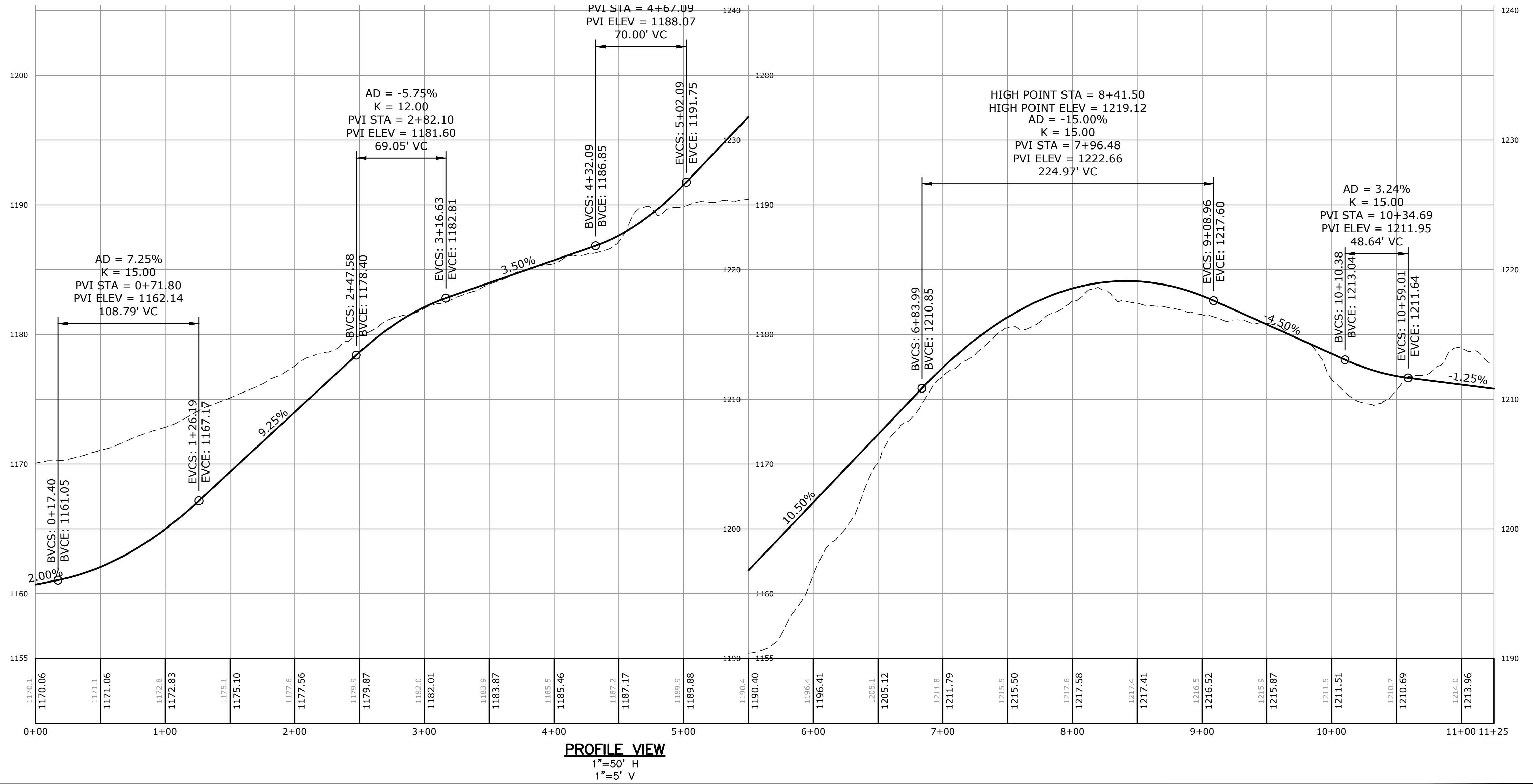
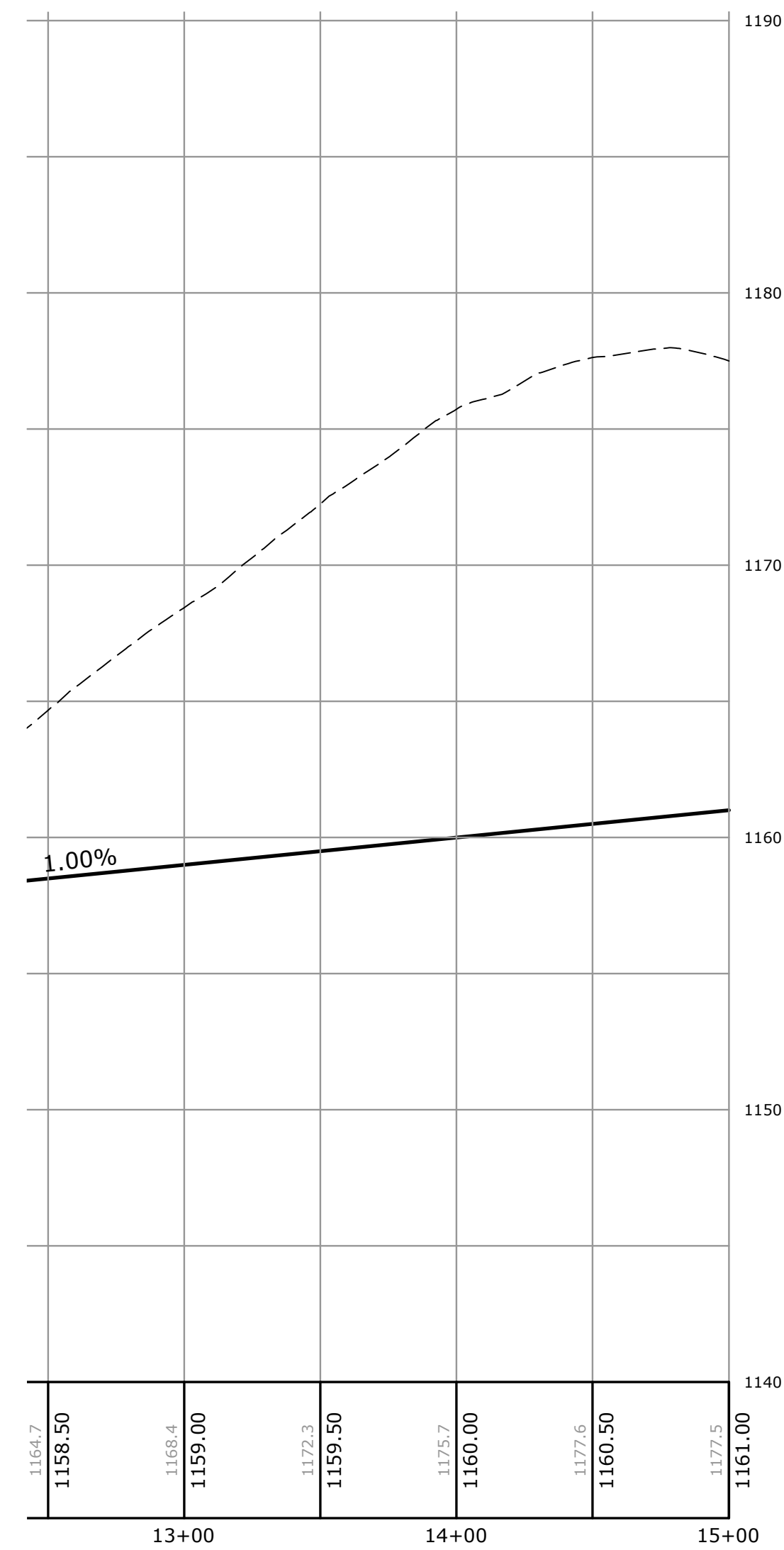
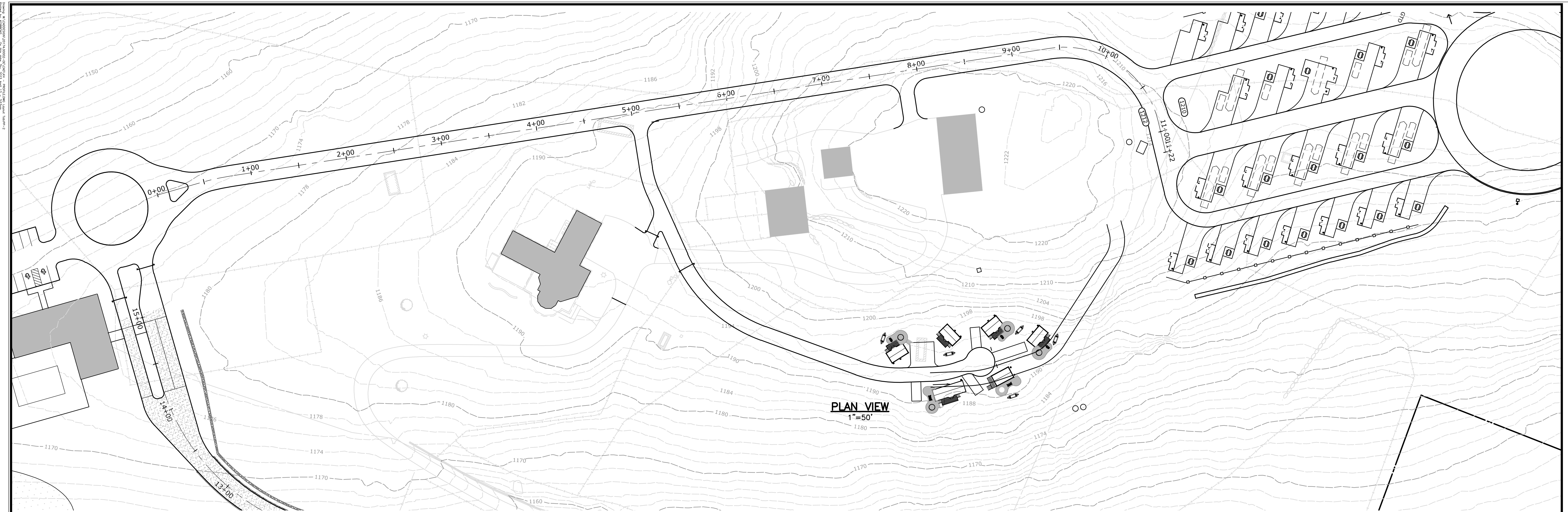


DESCRIPTION	DATE	BY
PROFILE REVISIONS	2/22/2023	KLS
LAYOUT CHANGES	4/13/2023	ACD

SITE PLAN - PLAN & PROFILE
LITCHFIELDS HILLS CT
KOA CAMPGROUND
232 KLUG HILL ROAD
TORRINGTON, CONNECTICUT

ACD	ACD	RJM
DESIGNED	DRAWN	CHECKED

AS NOTED
DATE: JANUARY 13, 2023
PROJECT NO.: 20174.00002
SHEET NO.: 18 OF 30
SHEET NAME: PP-1



DESCRIPTION	DATE	BY
PROFILE REVISIONS	2/22/2023	KJS
LAYOUT CHANGES	4/13/2023	ACD

SITE PLAN - PLAN & PROFILE
LITCHFIELDS HILLS CT
KOA CAMPGROUND
 232 KLUG HILL ROAD
 TORRINGTON, CONNECTICUT

ACD	ACD	RJM
DESIGNED	DRAWN	CHECKED
AS NOTED		
JANUARY 13, 2023		
DATE		
PROJECT NO. 20174.00002		
SHEET NO. 19 OF 30		

PP-2

SOIL TESTING DATA - SEPTEMBER 2022

OBSERVED BY JUSTIN ROMPRE, TORRINGTON & RYAN MCEVOY, SLR CONSULTING. TEST PITS #101-120 ON 9/1/20. TEST PITS #121-138 ON 9/2/22.

Test Pit: 101
00"-05" TOPSOIL
05"-23" ORANGE BROWN FINE SANDY LOAM
23"-41" LIGHT-BROWN FINE SAND, LITTLE SILT
MOTTILING - N/A
RESTRICTIVE - 41"
ROOTS - 30"
LEDGE - N/A

Test Pit: 102
00"-05" TOPSOIL
05"-21" ORANGE BROWN FINE SANDY LOAM
21"-48" LIGHT-BROWN FINE SAND, LITTLE SILT
MOTTILING - N/A
RESTRICTIVE - 38"
ROOTS - 27"
LEDGE - DIGGABLE @ 38"

Test Pit: 103
00"-06" TOPSOIL
06"-17" ORANGE BROWN FINE SANDY LOAM
17"-26" LIGHT-BROWN FINE SAND, LITTLE SILT, BOULDERS
MOTTILING - N/A
RESTRICTIVE - 26"
LEDGE - 26"

MOTTILING - N/A
RESTRICTIVE - 26"
LEDGE - 26"

Test Pit: 104
00"-03" TOPSOIL
03"-18" ORANGE BROWN FINE SANDY LOAM
18"-57" LIGHT-BROWN FINE SAND, LITTLE SILT
MOTTILING - N/A
RESTRICTIVE - 18"
ROOTS - 25"
LEDGE - DIGGABLE @ 18"

MOTTILING - N/A
RESTRICTIVE - 18"
ROOTS - 25"
LEDGE - DIGGABLE @ 18"

Test Pit: 105
00"-05" TOPSOIL
05"-23" ORANGE BROWN FINE SANDY LOAM
23"-60" LIGHT-BROWN FINE SAND, LITTLE SILT, COMPACT @ 31"
MOTTILING - N/A
RESTRICTIVE - 31"
ROOTS - 24"
LEDGE - N/A

MOTTILING - N/A
RESTRICTIVE - 31"
ROOTS - 24"
LEDGE - N/A

Test Pit: 106
00"-06" TOPSOIL
06"-23" ORANGE BROWN FINE SANDY LOAM
23"-84" LIGHT-BROWN FINE SAND, LITTLE SILT, COMPACT @ 35"
MOTTILING - N/A
RESTRICTIVE - 35"
ROOTS - 28"
LEDGE - N/A

MOTTILING - N/A
RESTRICTIVE - 35"
ROOTS - 28"
LEDGE - N/A

PERC: 106
DEPTH: 19"
RATE: 1.1-10.0

Test Pit: 107
00"-08" TOPSOIL
08"-20" ORANGE BROWN FINE SANDY LOAM
20"-42" LIGHT-BROWN FINE SAND, LITTLE SILT
MOTTILING - N/A
RESTRICTIVE - 28"
ROOTS - 28"
LEDGE - DIGGABLE @ 28"

MOTTILING - N/A
RESTRICTIVE - 28"
ROOTS - 28"
LEDGE - DIGGABLE @ 28"

Test Pit: 108
00"-07" TOPSOIL
07"-24" ORANGE BROWN FINE SANDY LOAM
MOTTILING - N/A
RESTRICTIVE - 24"
ROOTS - N/A
LEDGE - 24"

MOTTILING - N/A
RESTRICTIVE - 24"
ROOTS - N/A
LEDGE - 24"

PERC: 109
DEPTH: 20"
RATE: 1.1-10.0

Test Pit: 109
00"-08" TOPSOIL
08"-24" ORANGE BROWN FINE SANDY LOAM
24"-64" LIGHT-BROWN FINE-MEDIUM SAND, LITTLE SILT, COMPACT @ 34"
MOTTILING - N/A
RESTRICTIVE - 34"
ROOTS - 31"
LEDGE - N/A

MOTTILING - N/A
RESTRICTIVE - 34"
ROOTS - 31"
LEDGE - N/A

PERC: 109
DEPTH: 20"
RATE: 1.1-10.0

Test Pit: 110
00"-06" TOPSOIL
06"-23" ORANGE BROWN FINE SANDY LOAM
23"-51" LIGHT-BROWN FINE-MEDIUM SAND, LITTLE SILT
51"-74" DECOMPOSED DIGGABLE LEDGE, COMPACT @ 28"
MOTTILING - N/A
RESTRICTIVE - 28"
ROOTS - N/A
LEDGE - N/A

MOTTILING - N/A
RESTRICTIVE - 28"
ROOTS - N/A
LEDGE - N/A

Test Pit: 111
00"-06" TOPSOIL
06"-23" ORANGE BROWN FINE SANDY LOAM
23"-48" LIGHT-BROWN FINE SAND, LITTLE SILT, COMPACT @ 29"
48"-58" DIGGABLE LEDGE
MOTTILING - N/A
RESTRICTIVE - 29"
ROOTS - 27"
LEDGE - DIGGABLE @ 48"

MOTTILING - N/A
RESTRICTIVE - 29"
ROOTS - 27"
LEDGE - DIGGABLE @ 48"

PERC: 111
DEPTH: 17"
RATE: 1.1-10.0

Test Pit: 112
00"-07" TOPSOIL
07"-32" ORANGE BROWN FINE SANDY LOAM
32"-45" LIGHT-BROWN FINE SAND WITH SILT
45"-79" MEDIUM BROWN FINE SAND WITH SILT, COBBLES, COMPACT @ 45"
MOTTILING - N/A
RESTRICTIVE - 45"
ROOTS - N/A
LEDGE - N/A

MOTTILING - N/A
RESTRICTIVE - 45"
ROOTS - N/A
LEDGE - N/A

PERC: 112
DEPTH: 20"
RATE: 1.1-10.0

Test Pit: 113
00"-07" TOPSOIL
07"-24" ORANGE BROWN FINE SANDY LOAM
24"-41" LIGHT-BROWN FINE SAND, SOME SILT
41"-47" MEDIUM BROWN FINE SAND WITH SILT
47"-62" DIGGABLE LEDGE
MOTTILING - N/A
RESTRICTIVE - 47"
ROOTS - N/A
LEDGE - N/A

MOTTILING - N/A
RESTRICTIVE - 47"
ROOTS - N/A
LEDGE - N/A

PERC: 113
DEPTH: 18"
RATE: 1.1-10.0

Test Pit: 114
00"-08" TOPSOIL
08"-26" ORANGE BROWN FINE SANDY LOAM
26"-35" LIGHT-BROWN FINE SAND, SOME SILT
35"-82" DIGGABLE LEDGE
MOTTILING - N/A
RESTRICTIVE - 35"
ROOTS - 35"
LEDGE - N/A

MOTTILING - N/A
RESTRICTIVE - 35"
ROOTS - 35"
LEDGE - N/A

Test Pit: 115
00"-08" TOPSOIL
08"-25" ORANGE BROWN FINE SANDY LOAM
25"-52" DIGGABLE LEDGE
MOTTILING - N/A
RESTRICTIVE - 35"
ROOTS - 25"
LEDGE - N/A

MOTTILING - N/A
RESTRICTIVE - 35"
ROOTS - 25"
LEDGE - N/A

Test Pit: 116
00"-08" TOPSOIL
08"-29" ORANGE BROWN FINE SANDY LOAM
29"-62" LIGHT BROWN FINE SAND, SOME SILT, COMPACT @ 40"
MOTTILING - N/A
RESTRICTIVE - 40"
ROOTS - 40"
LEDGE - N/A

MOTTILING - N/A
RESTRICTIVE - 40"
ROOTS - 40"
LEDGE - N/A

PERC: 116
DEPTH: 19"
RATE: 1.1-10.0

Test Pit: 117
00"-05" TOPSOIL
05"-27" ORANGE BROWN FINE SANDY LOAM
27"-30" LIGHT BROWN FINE SAND, SOME SILT
MOTTILING - N/A
RESTRICTIVE - 30"
ROOTS - 30"
LEDGE - N/A

MOTTILING - N/A
RESTRICTIVE - 30"
ROOTS - 30"
LEDGE - N/A

PERC: 117
DEPTH: 20"
RATE: 1.1-10.0

Test Pit: 118
00"-05" TOPSOIL
05"-31" ORANGE BROWN FINE SANDY LOAM
31"-82" LIGHT-BROWN FINE SAND, SOME SILT, SOME GRAVEL, FIRM @ 35"
MOTTILING - N/A
RESTRICTIVE - 35"
ROOTS - 35"
LEDGE - N/A

MOTTILING - N/A
RESTRICTIVE - 35"
ROOTS - 35"
LEDGE - N/A

PERC: 118
DEPTH: 17.5"
RATE: 1.1-10.0

Test Pit: 119
00"-06" TOPSOIL
09"-28" ORANGE BROWN FINE SANDY LOAM
28"-74" LIGHT-BROWN FINE SAND, SOME SILT, COMPACT @ 37"
MOTTILING - N/A
RESTRICTIVE - 37"
ROOTS - 46"
LEDGE - N/A

MOTTILING - N/A
RESTRICTIVE - 37"
ROOTS - 46"
LEDGE - N/A

PERC: 119
DEPTH: 21"
RATE: 1.1-10.0

Test Pit: 120
00"-04" TOPSOIL
04"-30" ORANGE BROWN FINE SANDY LOAM
30"-41" LIGHT-BROWN FINE SAND, SOME SILT
41"-68" MEDIUM BROWN FINE-MEDIUM SAND, SOME SILT, COMPACT @ 41"
MOTTILING - N/A
RESTRICTIVE - 41"
ROOTS - 36"
LEDGE - N/A

MOTTILING - N/A
RESTRICTIVE - 41"
ROOTS - 36"
LEDGE - N/A

Test Pit: 121
00"-05" TOPSOIL
05"-32" ORANGE BROWN FINE SANDY LOAM
32"-44" LIGHT-BROWN FINE-MEDIUM SAND, SOME SILT, SOME GRAVEL
44"-66" DIGGABLE LEDGE
MOTTILING - N/A
RESTRICTIVE - 44"
ROOTS - 44"
LEDGE - DIGGABLE @ 44"

MOTTILING - N/A
RESTRICTIVE - 44"
ROOTS - 44"
LEDGE - DIGGABLE @ 44"

PERC: 121
DEPTH: 18"
RATE: 1.1-10.0

Test Pit: 122
00"-08" TOPSOIL
08"-24" ORANGE BROWN FINE SANDY LOAM
24"-38" LIGHT-BROWN FINE SAND, SOME SILT
38"-75" LIGHT-BROWN FINE-MEDIUM SAND, SOME SILT, SOME GRAVEL, COMPACT @ 38"
MOTTILING - N/A
RESTRICTIVE - 38"
ROOTS - 38"
LEDGE - N/A

MOTTILING - N/A
RESTRICTIVE - 38"
ROOTS - 38"
LEDGE - N/A

Test Pit: 123
00"-05" TOPSOIL
05"-23" ORANGE BROWN FINE SANDY LOAM
23"-37" LIGHT-BROWN FINE SAND, SOME SILT
37"-54" DIGGABLE LEDGE
MOTTILING - N/A
RESTRICTIVE - 37"
ROOTS - N/A
LEDGE - N/A

MOTTILING - N/A
RESTRICTIVE - 37"
ROOTS - N/A
LEDGE - N/A

Test Pit: 124
00"-07" TOPSOIL
07"-29" ORANGE BROWN FINE SANDY LOAM
29"-51" DIGGABLE LEDGE
MOTTILING - N/A
RESTRICTIVE - 29"
ROOTS - 29"
LEDGE - N/A

MOTTILING - N/A
RESTRICTIVE - 29"
ROOTS - 29"
LEDGE - N/A

Test Pit: 125
00"-07" TOPSOIL
07"-20" ORANGE BROWN FINE SANDY LOAM
20"-36" LIGHT BROWN FINE SAND, SOME SILT
MOTTILING - N/A
RESTRICTIVE - 36"
ROOTS - 25"
LEDGE - N/A

MOTTILING - N/A
RESTRICTIVE - 36"
ROOTS - 25"
LEDGE - N/A

Test Pit: 126
00"-05" TOPSOIL
05"-29" ORANGE BROWN FINE SANDY LOAM
29"-65" LIGHT-BROWN FINE SAND, SOME SILT, SOME GRAVEL, COMPACT @ 29"
MOTTILING - 29"
RESTRICTIVE - 29"
ROOTS - 29"
LEDGE - N/A

MOTTILING - 29"
RESTRICTIVE - 29"
ROOTS - 29"
LEDGE - N/A

Test Pit: 127
00"-07" TOPSOIL
07"-30" ORANGE BROWN FINE SANDY LOAM
30"-54" MEDIUM-BROWN FINE SAND, SOME SILT
MOTTILING - 37"
RESTRICTIVE - 37"
ROOTS - 37"
LEDGE - N/A

MOTTILING - 37"
RESTRICTIVE - 37"
ROOTS - 37"
LEDGE - N/A

PERC: 127
DEPTH: 19"
RATE: 1.1-10.0

Test Pit: 128
00"-08" TOPSOIL
08"-37" ORANGE BROWN FINE SANDY LOAM, COMPACT @ 37"
37"-76" MEDIUM-BROWN FINE-MEDIUM SAND, SOME SILT, SOME GRAVEL
MOTTILING - N/A
RESTRICTIVE - 37"
ROOTS - 37"
LEDGE - N/A

MOTTILING - N/A
RESTRICTIVE - 37"
ROOTS - 37"
LEDGE - N/A

PERC: 128
DEPTH: 18"
RATE: 1.1-10.0

Test Pit: 129
00"-06" TOPSOIL
06"-27" ORANGE BROWN FINE SANDY LOAM
27"-58" FRACTURED LEDGE
MOTTILING - N/A
RESTRICTIVE - 27"
ROOTS - 27"
LEDGE - N/A

MOTTILING - N/A
RESTRICTIVE - 27"
ROOTS - 27"
LEDGE - N/A

Test Pit: 130
00"-10" TOPSOIL
10"-24" ORANGE BROWN FINE SANDY LOAM
24"-37" FRACTURED LEDGE
MOTTILING - N/A
RESTRICTIVE - 24"
ROOTS - 24"
LEDGE - N/A

MOTTILING - N/A
RESTRICTIVE - 24"
ROOTS - 24"
LEDGE - N/A

Test Pit: 131
00"-06" TOPSOIL
06"-25" ORANGE BROWN FINE SANDY LOAM
25"-74" LIGHT-BROWN FINE-MEDIUM SAND, SOME SILT, SOME GRAVEL, COMPACT @ 25"
MOTTILING - N/A
RESTRICTIVE - 25"
ROOTS - 25"
LEDGE - N/A

MOTTILING - N/A
RESTRICTIVE - 25"
ROOTS - 25"
LEDGE - N/A

Test Pit: 132
00"-07" TOPSOIL
07"-24" ORANGE BROWN FINE SANDY LOAM
24"-87" MEDIUM-BROWN FINE SAND WITH SILT, SOME GRAVEL, COMPACT @ 24"
MOTTILING - N/A
RESTRICTIVE - 24"
ROOTS - N/A
LEDGE - N/A

MOTTILING - N/A
RESTRICTIVE - 24"
ROOTS - N/A
LEDGE - N/A

PERC: 132
DEPTH: 17.5"
RATE: 1.1-10.0

Test Pit: 133
00"-07" TOPSOIL
07"-30" ORANGE BROWN FINE SANDY LOAM
30"-83" MEDIUM-BROWN FINE SAND WITH SILT, SOME GRAVEL, COMPACT @ 30"
MOTTILING - N/A
RESTRICTIVE - 30"
ROOTS - N/A
LEDGE - N/A

MOTTILING - N/A
RESTRICTIVE - 30"
ROOTS - N/A
LEDGE - N/A

Test Pit: 134
00"-07" TOPSOIL
07"-22" ORANGE BROWN FINE SANDY LOAM, BOULDERS
22"-31" LIGHT-BROWN FINE SAND, SOME SILT
31"-77" MEDIUM-BROWN FINE-MEDIUM SAND, SOME SILT, SOME GRAVEL, COMPACT @ 31"
MOTTILING - FAINT @ 31"
RESTRICTIVE - 31"
ROOTS - 25"
LEDGE - OUTCROP 35' TO THE NORTH

MOTTILING - FAINT @ 31"
RESTRICTIVE - 31"
ROOTS - 25"
LEDGE - OUTCROP 35' TO THE NORTH

PERC: 134
DEPTH: 18"
RATE: 1.1-10.0

Test Pit: 135
00"-05" TOPSOIL
05"-19" ORANGE BROWN FINE SANDY LOAM
19"-43" LIGHT-BROWN FINE SAND, SOME SILT, SOME GRAVEL
MOTTILING - N/A
RESTRICTIVE - 43"
ROOTS - N/A
LEDGE - N/A

MOTTILING - N/A
RESTRICTIVE - 43"
ROOTS - N/A
LEDGE - N/A

Test Pit: 136
00"-05" TOPSOIL
05"-30" ORANGE BROWN FINE SANDY LOAM, BOULDERS
30"-82" LIGHT-BROWN FINE SAND, SOME SILT, SOME GRAVEL, FIRM @ 36"
MOTTILING - N/A
RESTRICTIVE - 36"
ROOTS - 34"
LEDGE - N/A

MOTTILING - N/A
RESTRICTIVE - 36"
ROOTS - 34"
LEDGE - N/A

PERC: 136
DEPTH: 18"
RATE: 1.1-10.0

Test Pit: 137
00"-05" TOPSOIL
05"-27" ORANGE BROWN FINE SANDY LOAM
27"-43" LIGHT-BROWN FINE-MEDIUM SAND, SOME SILT, WITH COBBLES, COMPACT @ 27"
MOTTILING - N/A
RESTRICTIVE - 27"
ROOTS - N/A
LEDGE - N/A

MOTTILING - N/A
RESTRICTIVE - 27"
ROOTS - N/A
LEDGE - N/A

Test Pit: 138
00"-06" TOPSOIL
06"-16" ORANGE BROWN FINE SANDY LOAM
16"-28" LIGHT-BROWN FINE-MEDIUM SAND, SOME SILT
MOTTILING - N/A
RESTRICTIVE - 28"
ROOTS - 28"
LEDGE - N/A

MOTTILING - N/A
RESTRICTIVE - 28"
ROOTS - 28"
LEDGE - N/A



Table with columns: DESCRIPTION, DATE, BY

SEPTIC SYSTEM - SOIL TESTING RESULTS
LITCHFIELDS HILLS CT
KOA CAMPGROUND
232 KLUG HILL ROAD
TORRINGTON, CONNECTICUT

Table with columns: --, MLA, RJM

NOT TO SCALE

NOVEMBER 9, 2022

20174.00002

21 OF 30

SD-2

SEPTIC SYSTEM DESIGN

Septic System Design

Design Criteria	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6
Testpits in or near System	16, 17, 22, 23, 24, 25, 26	125, 126, 127, 128	118, 119, 120, 121, 122, 123	112, 113, 114, 115, 116	45,46,47	27, 28
Percolation Tests in or near System	16, 17, 26	127, 128	118, 121	112,113	45,46	28
Testpit(s) Used for Design	16, 17, 22, 23, 24, 25, 26	125, 126, 127, 128	118, 119, 120, 121, 122, 123	112, 113, 114, 115, 116	45,46,47	27, 28
Percolation Rate (Min/inch)	1.1-10.0	1.1-10.0	PL	1.1-10.0	10.1-20.0	10.1-20.0
Required Effective Area (sq. ft.)	2437.5	1312.5	2437.5	2437.5	787.5	1183
Restrictive Layer	Mottling	Mottling/Compact	Compact/Diggable	Compact/Diggable	Compact	Mottling
Receiving Soil Depth (inch)	(36" (Top of System to RL)+ 26.5" (Avg. depth to RL)/2 = 31.25" Avg.	See Septic Design Sheets (Avg. depth to RL) = 42.5" Avg.	(42" (Top of System to RL)+ 37.5" (Avg. depth to RL)/2 = 39.75" Avg.	(42" (Top of System to RL)+ 32.5" (Avg. depth to RL)/2 = 37.2" Avg.	(Avg. depth to RL) = 33.3" Avg.	(36" (Top of System to RL)+ 30" (Avg. depth to RL)/2 = 33" Avg.
Slope (%)	10.1-15.0	8.1-10.0	10.1-15.0	>15.0	>15.0	10.1-15.0
Hydraulic Factor (HF)	20	18	18	16	18	20
Flow Factor (FF)	6.5	3.5	6.5	6.5	1.75	3.40
Percolation Factor (PF)	1	1	1	1	1.25	1.25
MLSS (ft.)	130	63	117	104	39.38	85.00
Primary System Type	18" C.G.*	18" C.G.*	18" C.G.*	18" C.G.*		12" C.G.
Effective Leaching (SF/LF)	7.0	7.0	7.0	7.0		5.9
Length Used (ft.)	2x176	3x64	2x176	2x176		2x104
Effective Leaching Area Provided (SF)	2464	1344	2464	2464		1227.2
Center to Center Spacing (ft.)	12	12	12	12		12
Reserve System Type	18" C.G.*	18" C.G.	18" C.G.*	18" C.G.*	12" C.G.	Mantis 536-8
Effective Leaching (SF/LF)	7.0	6.2	7.0	7.0	5.9	55
Length Used (ft.)	2x176	2x112	2x176	3x120	2x72	2x55
Effective Leaching Area Provided (SF)	2464	1388.8	2464	2520	849.5	1210
Center to Center Spacing (ft.)	12	12	12	12	12	N/A
C.G. = Concrete Gallery						
*Top Distribution Pipe/ **1' of Stone at Each End of Row						



90 REALTY DRIVE
SUITE 200
TORRINGTON, CT 06460
203.771.7171
SLRCONSULTING.COM

DESCRIPTION	DATE	BY
TAHO COMMENTS	12/20/2022	ACD
SYSTEM 5 & 6 CHANGES	4/6/2023	ACD

SEPTIC SYSTEM - MLSS DATA TABLE

LITCHFIELDS HILLS CT
KOA CAMPGROUND
232 KLUG HILL ROAD
TORRINGTON, CONNECTICUT

ACD DESIGNED	MLA DRAWN	RJM CHECKED
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SCALE: NOT TO SCALE

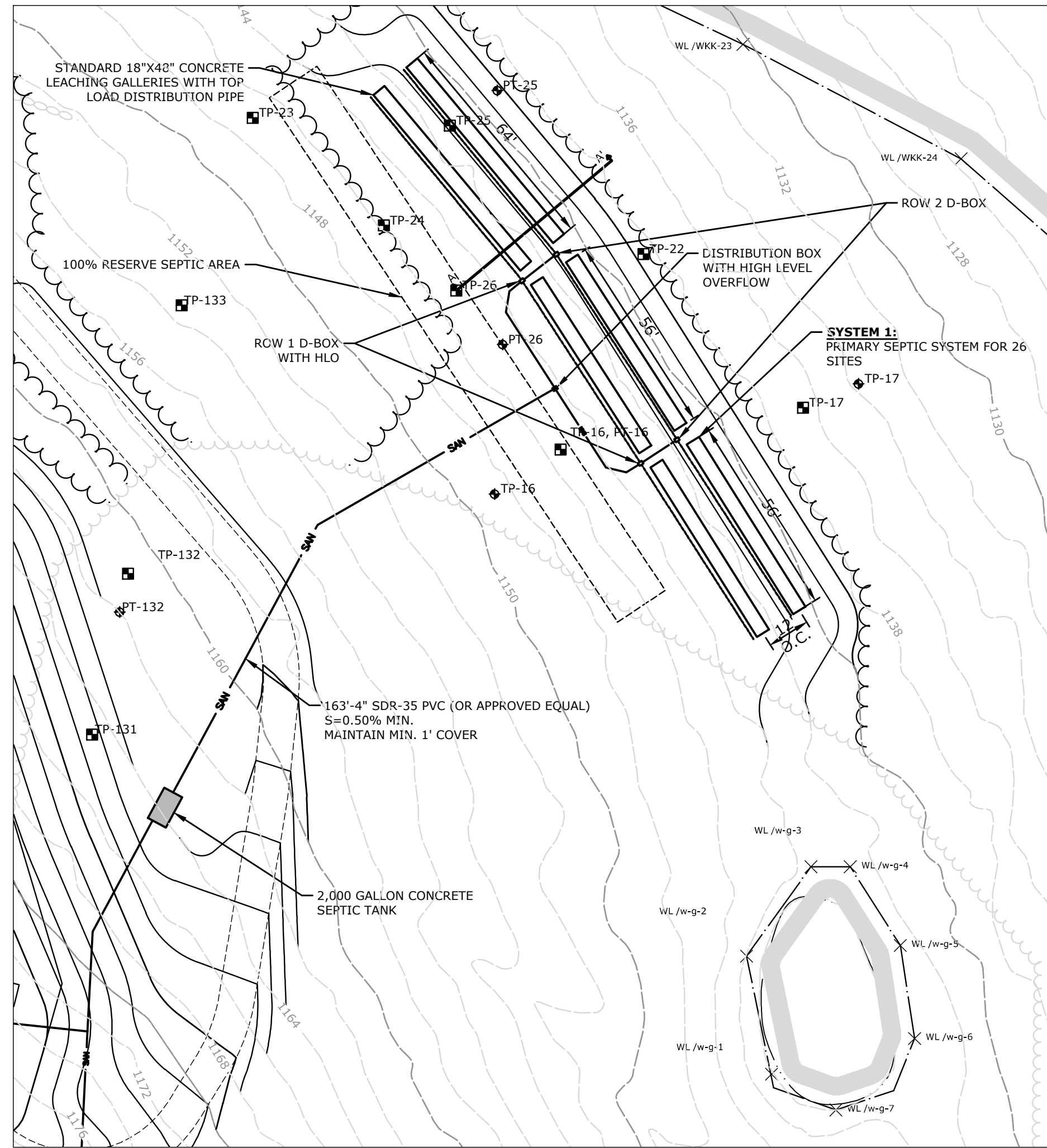
DATE: NOVEMBER 9, 2022

PROJECT NO.: 20174.00002

SHEET NO.: 22 OF 30

SHEET NAME: SD-3

SYSTEM 1



SYSTEM DESIGN

DESIGN BASIS: CONNECTICUT PUBLIC HEALTH CODE REGULATIONS AND TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS DATED JANUARY 2023, AS AMENDED.

FLOW: 26 RV SITES

PERC RATE: 1.1-10.0 MIN/INCH

EFFECTIVE AREA REQUIRED = 2437.5 SQ.FT.
 RESTRICTIVE LAYER = MOTTILING AT 24" - TP-26
 SLOPE = 10.1-15.0%
 RS DEPTH = [36" (TOP OF SYSTEM TO RESTRICTIVE LAYER) + 26.5" (AVERAGE DEPTH TO RESTRICTIVE LAYER)] / 2 = 31.25"
 HYDRAULIC FACTOR (HF) = 20
 FLOW FACTOR (FF) = 6.5
 PERCOLATION FACTOR (PF) = 1.0
 MLSS = 20*6.5*1.0 = 130 LF
 PRIMARY AREA - USE 352 LF (2 ROWS OF 176') OF 18"x48" CONCRETE GALLERIES WITH TOP LOAD DISTRIBUTION PIPE
 EFFECTIVE LEACHING AREA PROVIDED = 2,464 SF (2X176 LF @ 7.0 SQ.FT./L.F.)

RESERVE AREA

PERC RATE: 11.1-20.0 MIN/INCH
 EFFECTIVE AREA REQUIRED = 2,437.5 SQ.FT.
 RESTRICTIVE LAYER = 31" - TP-16

RESERVE AREA - USE 352 LF (2 ROWS OF 176') OF 18"x48" CONCRETE GALLERIES WITH TOP LOAD DISTRIBUTION PIPE
 EFFECTIVE LEACHING AREA PROVIDED = 2,464 SF (2X176 LF @ 7.0 SQ.FT./L.F.)

SEPTIC SYSTEM INVERT ELEVATIONS

SEPTIC TANK INLET = 1161.00
 SEPTIC TANK OUTLET = 1160.75

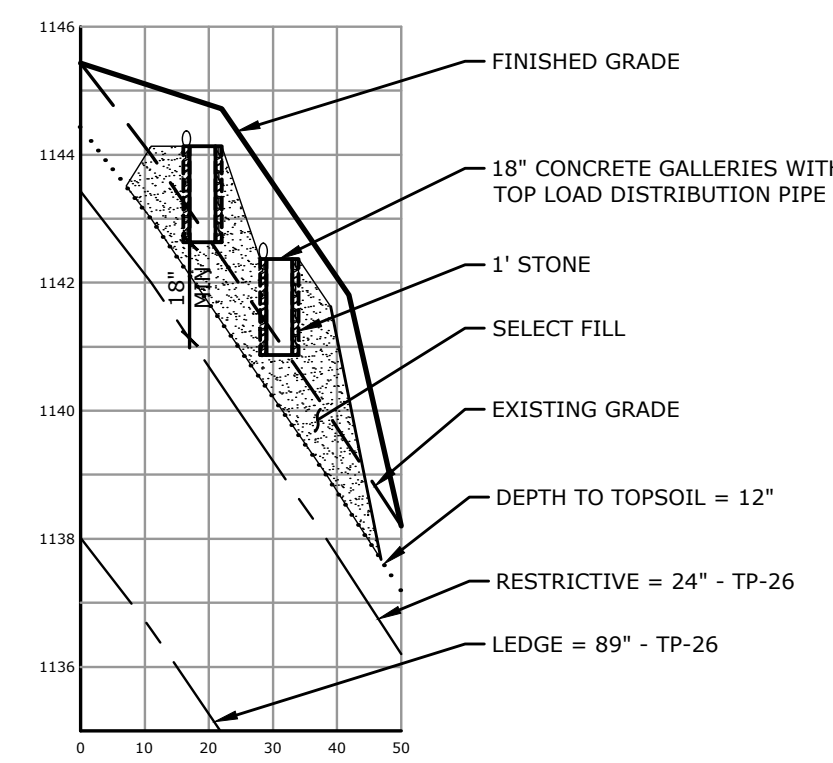
D-BOX = 1144.70

ROW 1 D-BOX = 1144.25
 (HLO) = 1144.35

ROW 1 INVERT ELEVATION = 1144.13
 ROW 1 BOTTOM ELEVATION = 1142.63

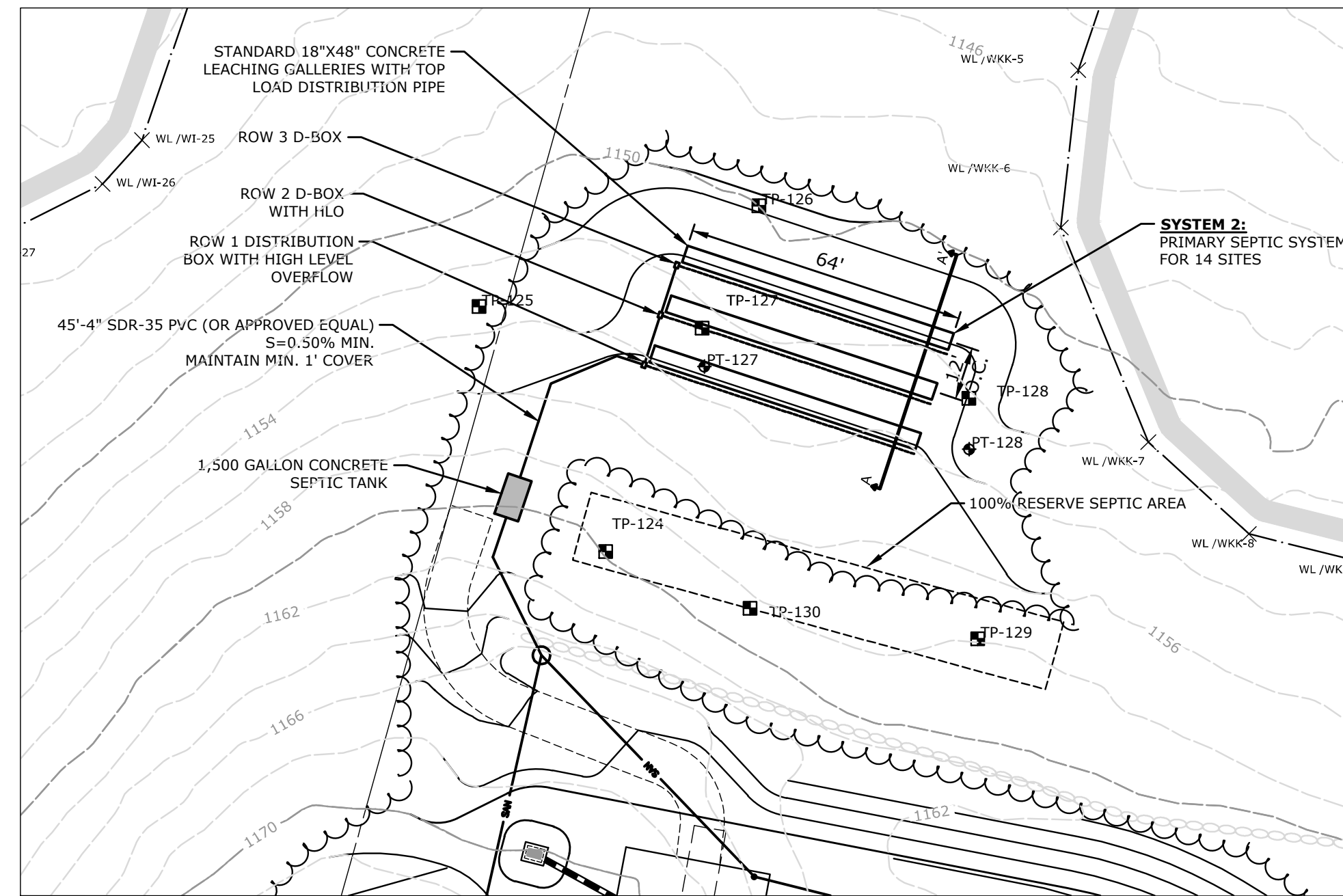
ROW 2 D-BOX = 1142.50

ROW 2 INVERT ELEVATION = 1142.37
 ROW 2 BOTTOM ELEVATION = 1140.87



SECTION A-A' - SYSTEM 1
 1" = 30' HORIZONTAL - 1" = 3' VERTICAL

SYSTEM 2



SYSTEM DESIGN

DESIGN BASIS: CONNECTICUT PUBLIC HEALTH CODE REGULATIONS AND TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS DATED JANUARY 2023, AS AMENDED.

FLOW: 14 RV SITES

PERC RATE: 1.1-10.0 MIN/INCH

EFFECTIVE AREA REQUIRED = 1312.5 SQ.FT.
 RESTRICTIVE LAYER = MOTTILING AT 37" - TP-127
 SLOPE = 8.1-10.0%
 RS DEPTH = [52" (TOP OF SYSTEM TO RL) + 33" (AVERAGE DEPTH TO RESTRICTIVE LAYER SURROUNDING THE LEACHING SYSTEM)] = 42.5"
 HYDRAULIC FACTOR (HF) = 18
 FLOW FACTOR (FF) = 3.5
 PERCOLATION FACTOR (PF) = 1.0
 MLSS = 18*3.5*1.0 = 63 LF
 PRIMARY AREA - USE 192 LF (3 ROWS OF 64') OF 18"x48" CONCRETE GALLERIES
 EFFECTIVE LEACHING AREA PROVIDED = 1,344 SF (3X64 LF @ 7.0 SQ.FT./L.F.)

RESERVE AREA

PERC RATE: 11.1-10.0 MIN/INCH
 EFFECTIVE AREA REQUIRED = 1,312.5 SQ.FT.
 RESTRICTIVE LAYER = 24"

RESERVE AREA - USE 224 LF (2 ROWS-112' LONG) OF 18"x48" CONCRETE GALLERIES
 EFFECTIVE LEACHING AREA PROVIDED = 1,388.8 SF (224 LF @ 6.2 SQ.FT./L.F.)

SEPTIC SYSTEM INVERT ELEVATIONS

SEPTIC TANK INLET = 1156.75
 SEPTIC TANK OUTLET = 1156.50

ROW 1 D-BOX = 1155.35
 (HLO)=1155.45

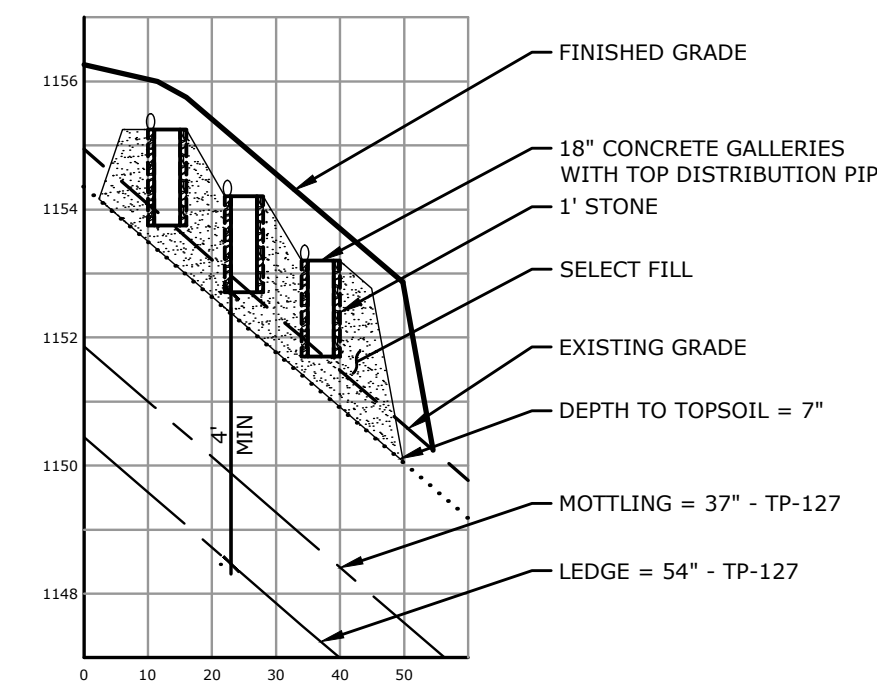
ROW 1 INVERT ELEVATION = 1155.25
 ROW 1 BOTTOM ELEVATION = 1153.75

ROW 2 D-BOX = 1154.30
 (HLO)=1154.40

ROW 2 INVERT ELEVATION = 1153.20
 ROW 2 BOTTOM ELEVATION = 1152.70

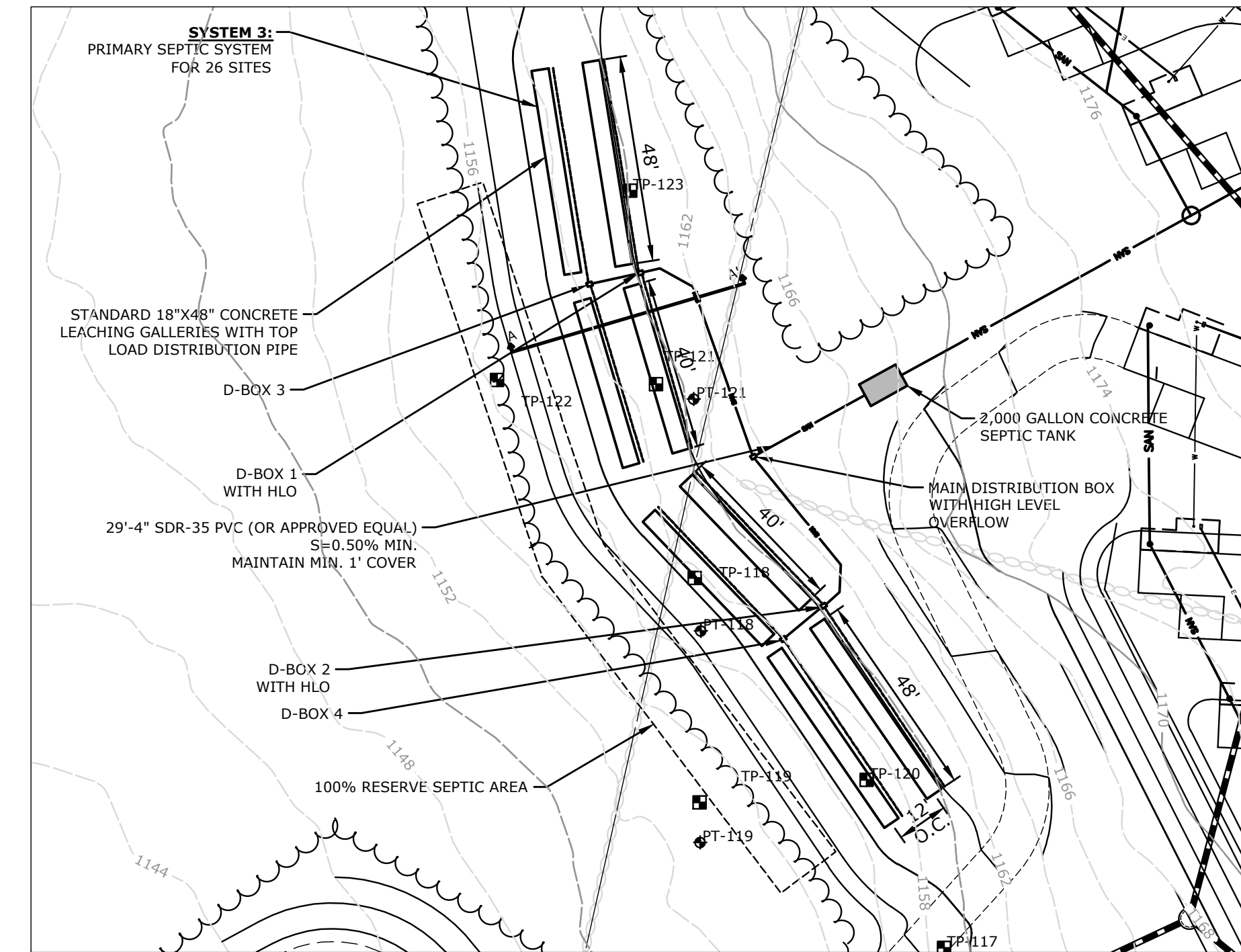
ROW 3 D-BOX = 1153.30

ROW 3 INVERT ELEVATION = 1153.20
 ROW 3 BOTTOM ELEVATION = 1151.70



SECTION A-A' - SYSTEM 2
 1" = 30' HORIZONTAL - 1" = 3' VERTICAL

SYSTEM 3



SYSTEM DESIGN

DESIGN BASIS: CONNECTICUT PUBLIC HEALTH CODE REGULATIONS AND TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS DATED JANUARY 2023, AS AMENDED.

FLOW: 26 RV SITES

PERC RATE: 1.1-10.0 MIN/INCH

EFFECTIVE AREA REQUIRED = 2437.5 SQ.FT.
 RESTRICTIVE LAYER = DIGGABLE LEDGE AT 37" - TP-123
 SLOPE = 10.1-15.0%
 RS DEPTH = [42" (TOP OF SYSTEM TO RESTRICTIVE LAYER) + 37.50" (AVERAGE DEPTH TO RESTRICTIVE LAYER)] / 2 = 39.75"
 HYDRAULIC FACTOR (HF) = 18
 FLOW FACTOR (FF) = 6.5
 PERCOLATION FACTOR (PF) = 1.0
 MLSS = 18*6.5*1.0 = 117 LF
 PRIMARY AREA - USE 352 LF (2 ROWS OF 176') OF 18"x48" CONCRETE GALLERIES WITH TOP LOAD DISTRIBUTION PIPE
 EFFECTIVE LEACHING AREA PROVIDED = 2,464 SF (2X176 LF @ 7.0 SQ.FT./L.F.)

RESERVE AREA

PERC RATE: 11.1-10.0 MIN/INCH
 EFFECTIVE AREA REQUIRED = 2,437.5 SQ.FT.
 RESTRICTIVE LAYER = 37" - TP-119

RESERVE AREA - USE 352 LF (2 ROWS OF 176') OF 18"x48" CONCRETE GALLERIES WITH TOP LOAD DISTRIBUTION PIPE
 EFFECTIVE LEACHING AREA PROVIDED = 2,464 SF (352LF @ 7.0 SQ.FT./L.F.)

SEPTIC SYSTEM INVERT ELEVATIONS

SEPTIC TANK INLET = 1163.00
 SEPTIC TANK OUTLET = 1162.75

MAIN D-BOX = 1162.0

ROW 1

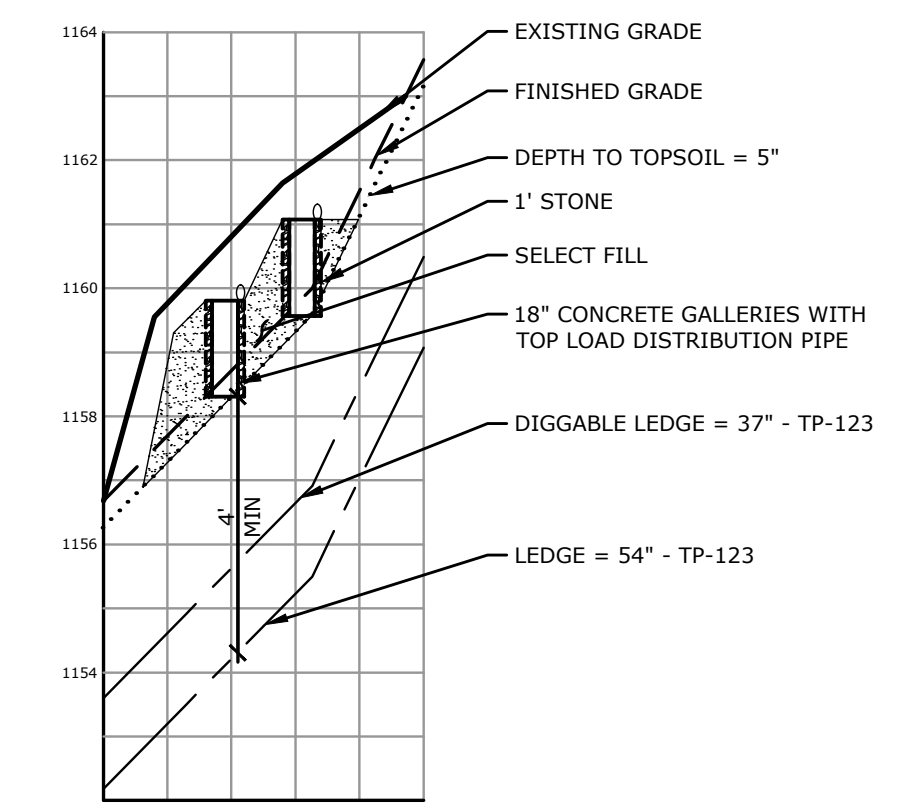
D-BOX 1 = 1161.20
 (HLO)=1161.30
 SECTION 1 INVERT ELEVATION = 1161.07
 SECTION 1 BOTTOM ELEVATION = 1159.57

D-BOX 2 = 1161.45
 (HLO)=1161.55
 SECTION 2 INVERT ELEVATION = 1161.35
 SECTION 2 BOTTOM ELEVATION = 1159.85

ROW 2

D-BOX 3 = 1159.95
 SECTION 1 INVERT ELEVATION = 1159.81
 SECTION 1 BOTTOM ELEVATION = 1158.31

D-BOX 4 = 1159.60
 SECTION 2 INVERT ELEVATION = 1159.50
 SECTION 2 BOTTOM ELEVATION = 1158.00



SECTION A-A' - SYSTEM 3
 1" = 30' HORIZONTAL - 1" = 3' VERTICAL



DESCRIPTION	DATE	BY
TAHD COMMENTS	12/29/2022	ACD

SEPTIC SYSTEM - SEPTIC DESIGN & CROSS SECTIONS
 LITCHFIELDS HILLS CT
 KOA CAMPGROUND
 232 KLUG HILL ROAD
 TORRINGTON, CONNECTICUT

ACD	MLA	RJM
DESIGNED	DRAWN	CHECKED

AS NOTED

NOVEMBER 9, 2022

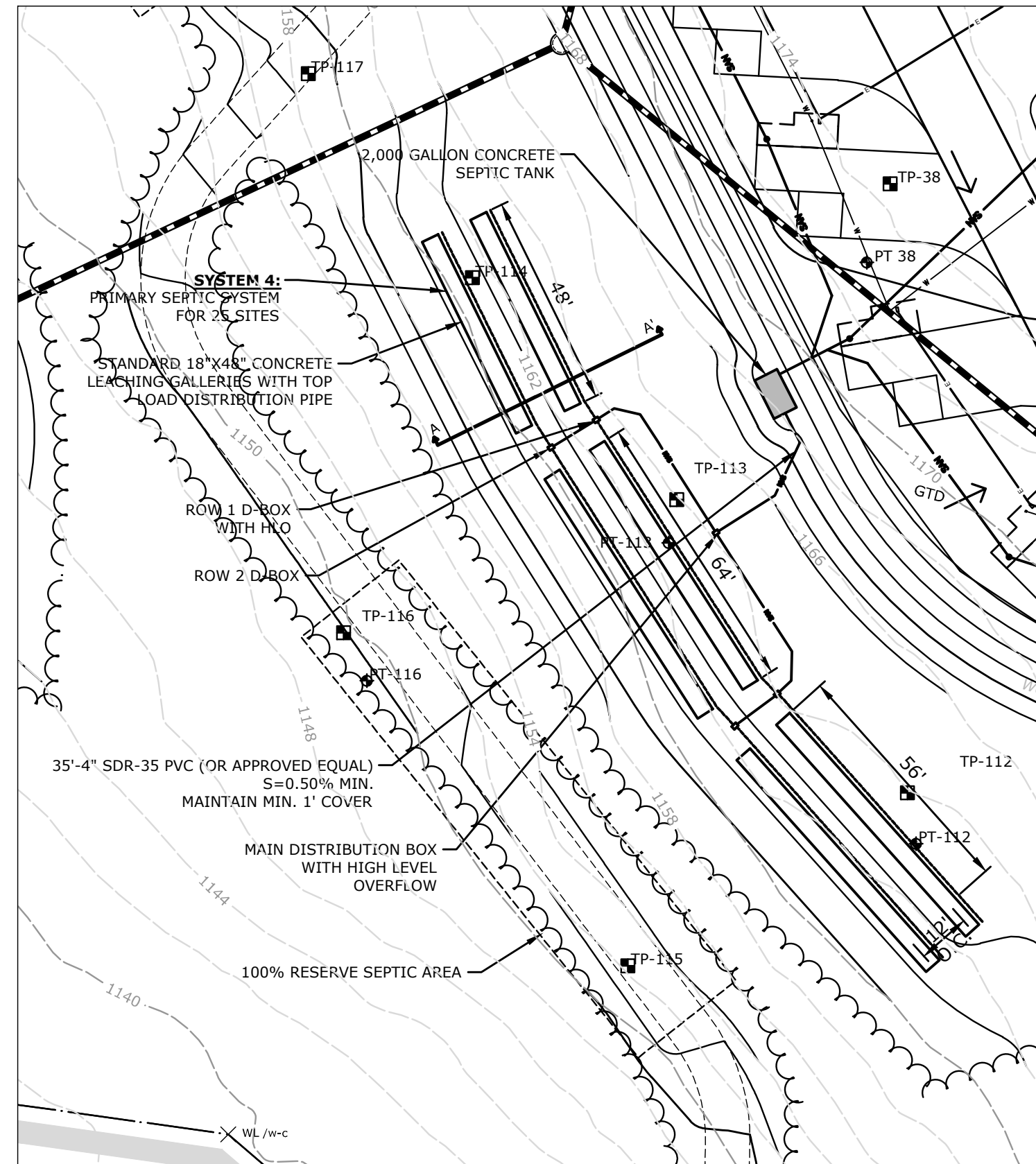
PROJECT NO. 20174.00002

SHEET NO. 23 OF 30

SD-4

SYSTEM 4
 SYSTEM 5
 SD-5
 2023.07.17
 SLR CONSULTING.COM

SYSTEM 4



SYSTEM DESIGN

DESIGN BASIS: CONNECTICUT PUBLIC HEALTH CODE REGULATIONS AND TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS DATED JANUARY 2023, AS AMENDED.

FLOW: 26 RV SITES

PERC RATE: 1.1-10.0 MIN/INCH

EFFECTIVE AREA REQUIRED = 2,437.5 SQ. FT.
 RESTRICTIVE LAYER = DIGGABLE AT 35" - TP-114
 SLOPE = >15.0%
 RS DEPTH = [42" (TOP OF SYSTEM TO RESTRICTIVE LAYER) + 32.5"
 (AVERAGE DEPTH TO RESTRICTIVE LAYER)] / 2 = 37.2"

HYDRAULIC FACTOR (HF) = 16
 FLOW FACTOR (FF) = 6.5
 PERCOLATION FACTOR (PF) = 1.0
 MLSS = 16" x 5" x 1.0 = 104 LF
 PRIMARY AREA - USE 352 LF (2 ROWS OF 176') OF 18" X 48" CONCRETE GALLERIES WITH TOP LOAD DISTRIBUTION PIPE
 EFFECTIVE LEACHING AREA PROVIDED = 2,464 SF (2x176 LF @ 7.0 SQ. FT./L.F.)

RESERVE AREA
 PERC RATE: 1.1-10.0 MIN/INCH
 EFFECTIVE AREA REQUIRED = 2,437.5 SQ. FT.
 RESTRICTIVE LAYER = 25"

RESERVE AREA - USE 360 LF (3 ROWS OF 120') OF 18" X 48" CONCRETE GALLERIES WITH TOP LOAD DISTRIBUTION PIPE
 EFFECTIVE LEACHING AREA PROVIDED = 2,520 SF (360 LF @ 7.0 SQ. FT./L.F.)

SEPTIC SYSTEM INVERT ELEVATIONS

SEPTIC TANK INLET = 1169.00
 SEPTIC TANK OUTLET = 1168.75

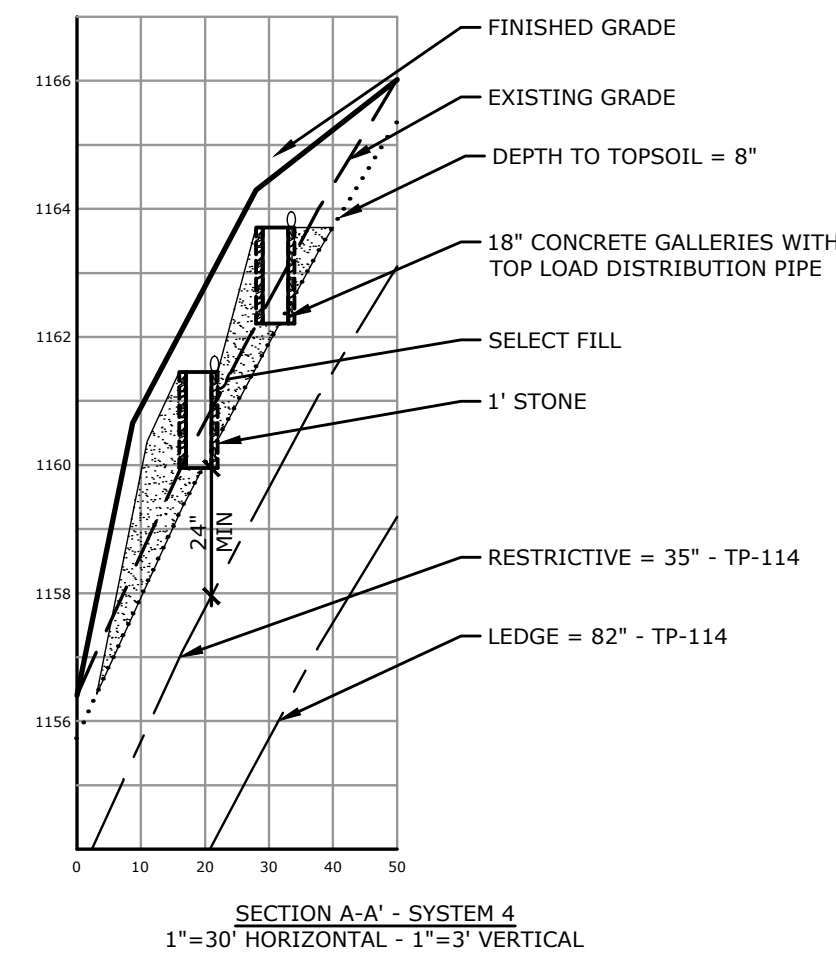
MAIN D-BOX = 1164.00

ROW 1 D-BOX = 1163.80
 (HLO) = 1163.90

ROW 1 INVERT ELEVATION = 1163.71
 ROW 1 BOTTOM ELEVATION = 1162.21

ROW 2 D-BOX = 1161.55

ROW 2 INVERT ELEVATION = 1161.44
 ROW 2 BOTTOM ELEVATION = 1159.94



SECTION A-A' - SYSTEM 4
 1" = 30' HORIZONTAL - 1" = 3' VERTICAL

SYSTEM 5



SYSTEM DESIGN

DESIGN BASIS: CONNECTICUT PUBLIC HEALTH CODE REGULATIONS AND TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS DATED JANUARY 2023, AS AMENDED.

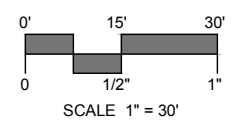
FLOW: EXISTING HOUSE (4 BEDROOMS)

PERC RATE: 10.1-20.0 MIN/INCH

EFFECTIVE AREA REQUIRED = 787.5 SQ. FT.
 RESTRICTIVE LAYER = COMPACT AT 28" - TP-45
 SLOPE = >15.0%
 RS DEPTH = (AVERAGE DEPTH TO RESTRICTIVE LAYER) = 33.3"

HYDRAULIC FACTOR (HF) = 18
 FLOW FACTOR (FF) = 1.75
 PERCOLATION FACTOR (PF) = 1.25
 MLSS = 18" x 1.75 x 1.25 = 39.375 LF

RESERVE AREA - USE 144 LF (2 ROW OF 72' OF 12" X 48" CONCRETE GALLERIES)
 EFFECTIVE LEACHING AREA PROVIDED = 849.6 SF (2x72 LF @ 5.9 SQ. FT./L.F.)



DESCRIPTION	DATE	BY
TAKO COMMENTS	12/29/2022	ACD
SITE LAYOUT CHANGES	1/6/2023	ACD

SEPTIC SYSTEM - SEPTIC DESIGN & CROSS SECTIONS
 LITCHFIELDS HILLS CT
 KOA CAMPGROUND
 232 KLUG HILL ROAD
 TORRINGTON, CONNECTICUT

ACD	MLA	RJM
DESIGNED	DRAWN	CHECKED
AS NOTED		
NOVEMBER 9, 2022		
DATE		
20174.00002		
PROJECT NO.		
24 OF 30		
SHEET NO.		
SD-5		
SHEET NAME		

SYSTEM 6



SYSTEM DESIGN

DESIGN BASIS: CONNECTICUT PUBLIC HEALTH CODE REGULATIONS AND TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS DATED JANUARY 2023, AS AMENDED.

FLOW: OFFICE/CAFE/LAUNDRY/STORE
 PERC RATE: 10.1-20.0 MIN/INCH

EFFECTIVE AREA REQUIRED = 1183 SQ.FT.
 RESTRICTIVE LAYER = MOTTLING AT 33" - TP-28
 SLOPE = 10.1-15.0%
 RS DEPTH = 36" (TOP OF SYSTEM TO RESTRICTIVE LAYER) + 30" (DEPTH TO RESTRICTIVE LAYER SURROUNDING THE LEACHING SYSTEM) = 66"

HYDRAULIC FACTOR (HF) = 20
 FLOW FACTOR (FF) = 3.4
 PERCOLATION FACTOR (PF) = 1.25
 MLSS = 20*3.4*1.25 = 85 LF

PRIMARY AREA - USE 208 LF (2 ROWS OF 104' OF 12"X48" CONCRETE GALLERIES)
 EFFECTIVE LEACHING AREA PROVIDED = 1227.2 (2x104 LF @ 5.9 SQ.FT./L.F.)

RESERVE AREA
 PERC RATE: 10.1-20.0 MIN/INCH
 EFFECTIVE AREA REQUIRED = 1138 SQ.FT.
 RESTRICTIVE LAYER = N/A

RESERVE AREA - USE 110 LF (2 ROWS-55' LONG) MANTIS 536-8
 EFFECTIVE LEACHING AREA PROVIDED = 1210 SF (2x55 LF @ 11.0 SQ.FT./L.F.)

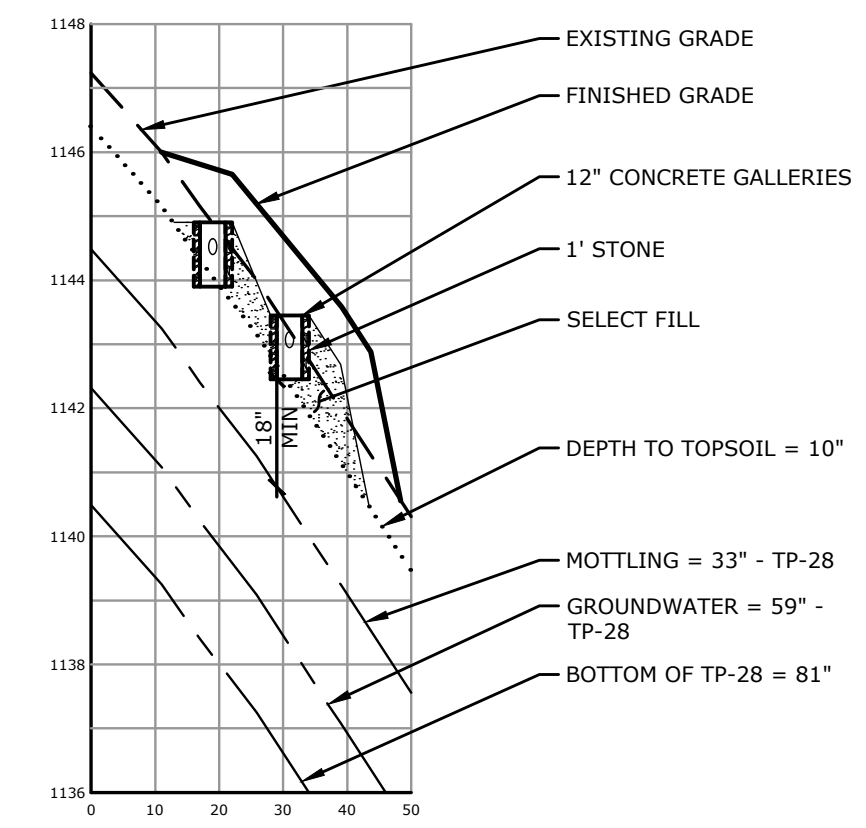
SEPTIC SYSTEM INVERT ELEVATIONS

SEPTIC TANK INLET = 1155.25
 SEPTIC TANK OUTLET = 1155.00

ROW 1 D-BOX = 1144.60
 (HLO) = 1144.70

ROW 1 INVERT ELEVATION = 1144.40
 ROW 1 BOTTOM ELEVATION = 1143.90

ROW 2 D-BOX = 1163.10
 ROW 2 INVERT ELEVATION = 1142.95
 ROW 2 BOTTOM ELEVATION = 1142.45



SECTION A-A' - SYSTEM 6
 1"=30' HORIZONTAL - 1"=3' VERTICAL



DESCRIPTION	DATE	BY
TAHO COMMENTS	12/20/2022	ACD
SITE LAYOUT CHANGES	1/6/2023	ACD

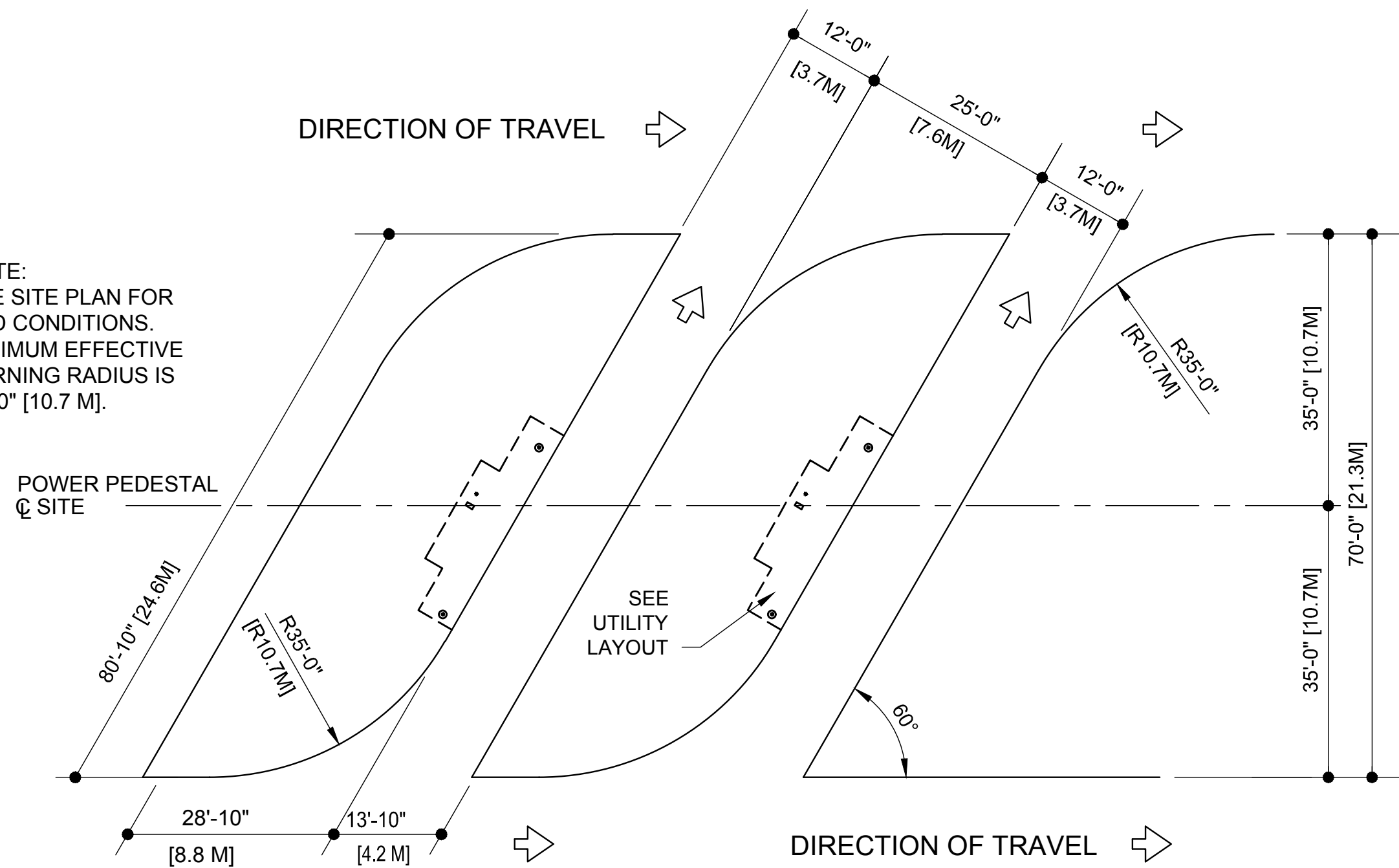
SEPTIC SYSTEM - SEPTIC DESIGN & CROSS SECTIONS
 LITCHFIELDS HILLS CT
 KOA CAMPGROUND
 232 KLUG HILL ROAD
 TORRINGTON, CONNECTICUT

ACD	MLA	RJM
DESIGNED	DRAWN	CHECKED

AS NOTED
 DATE: NOVEMBER 9, 2022
 PROJECT NO.: 20174.00002
 SHEET NO.: 25 OF 30

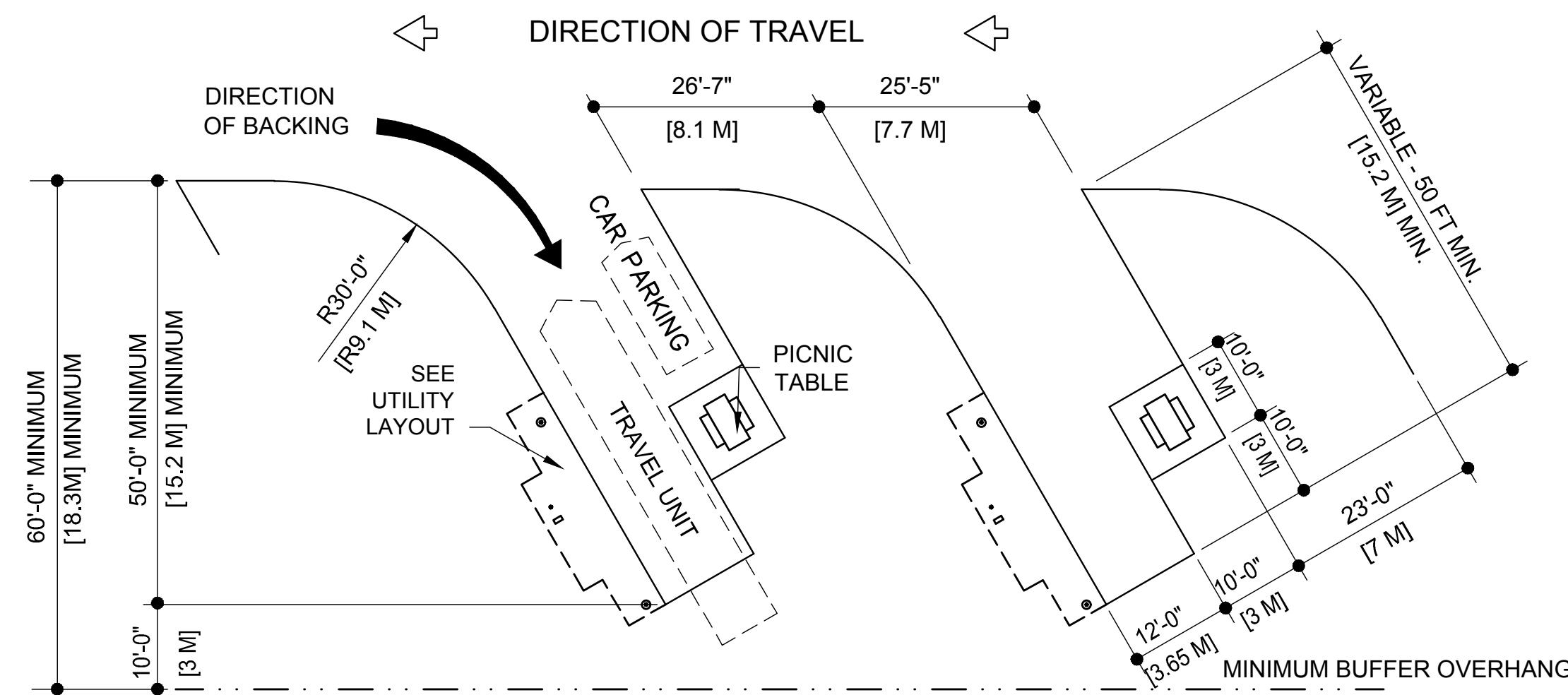
SD-6

NOTE:
SEE SITE PLAN FOR
END CONDITIONS.
MINIMUM EFFECTIVE
TURNING RADIUS IS
35'-0" [10.7 M].

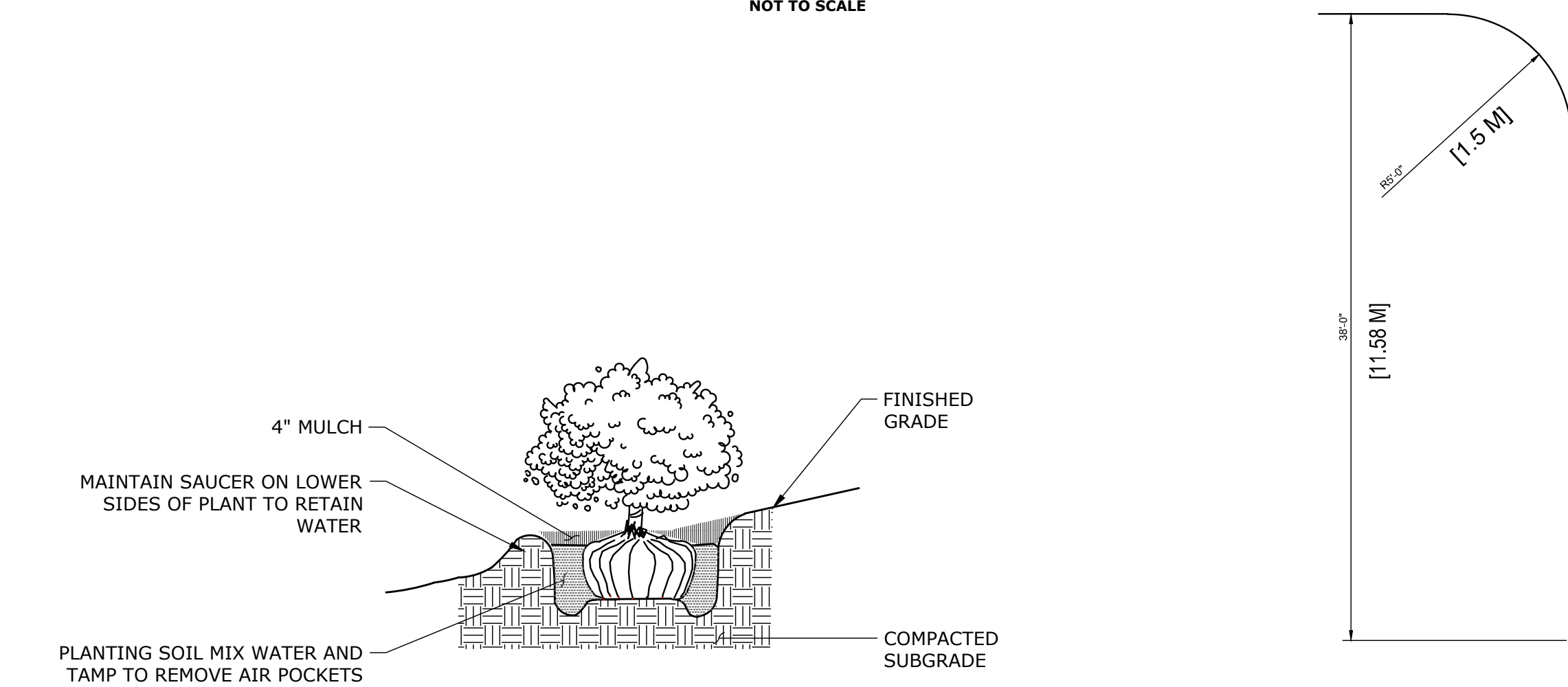


NOTE: USABLE LENGTH OF TRAVEL UNIT SPACE 75'-0" [22.8 M]

KOA DETAIL - 12+25 70FT VEHICLE/RV PULL-THROUGH SITE - 60°
NOT TO SCALE

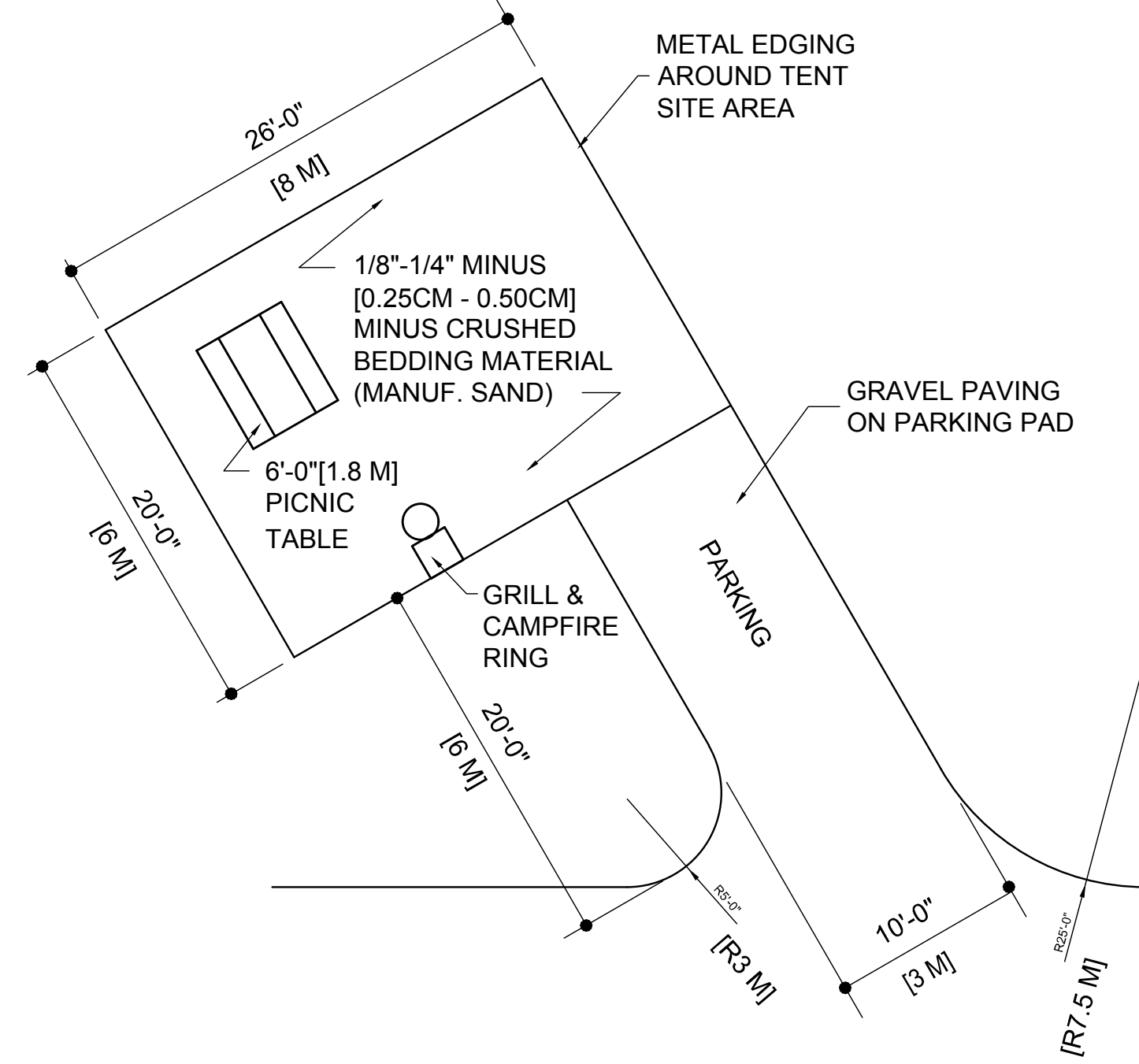
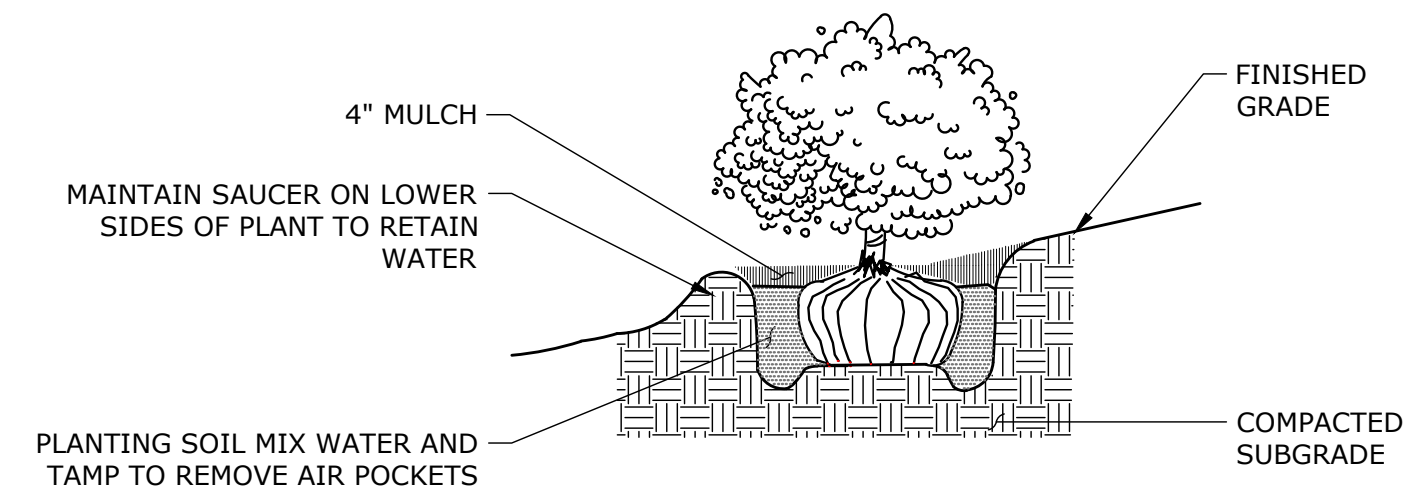


KOA DETAIL - VEHICLE/RV BACK-IN SITE 12'+23' - 60°
NOT TO SCALE

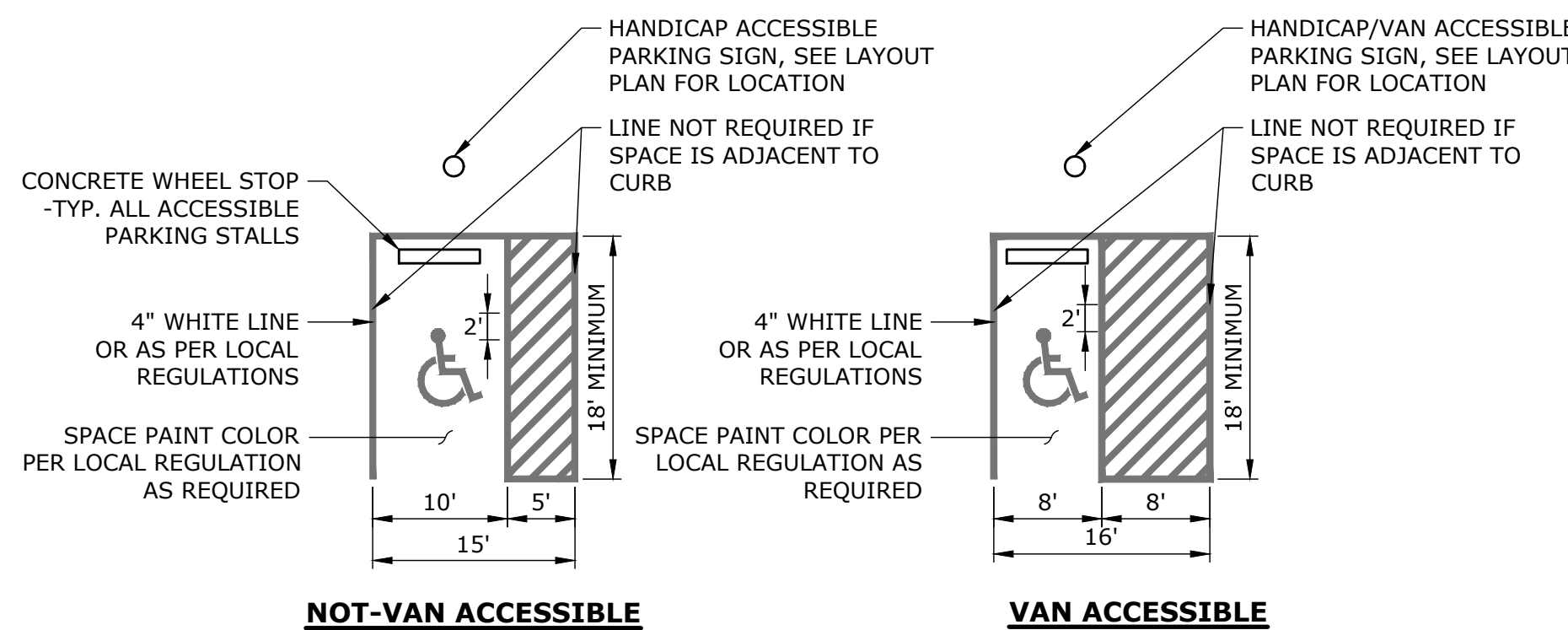


NOTES:
1. UNLESS OTHERWISE DIRECTED SHREDDED MULCH SHALL BE PLACED TO A LIMIT OF ONE FOOT BEYOND THE CENTER OF THE OUTERMOST SHRUBS IN SHRUB BED.

SHRUB PLANTING
NOT TO SCALE

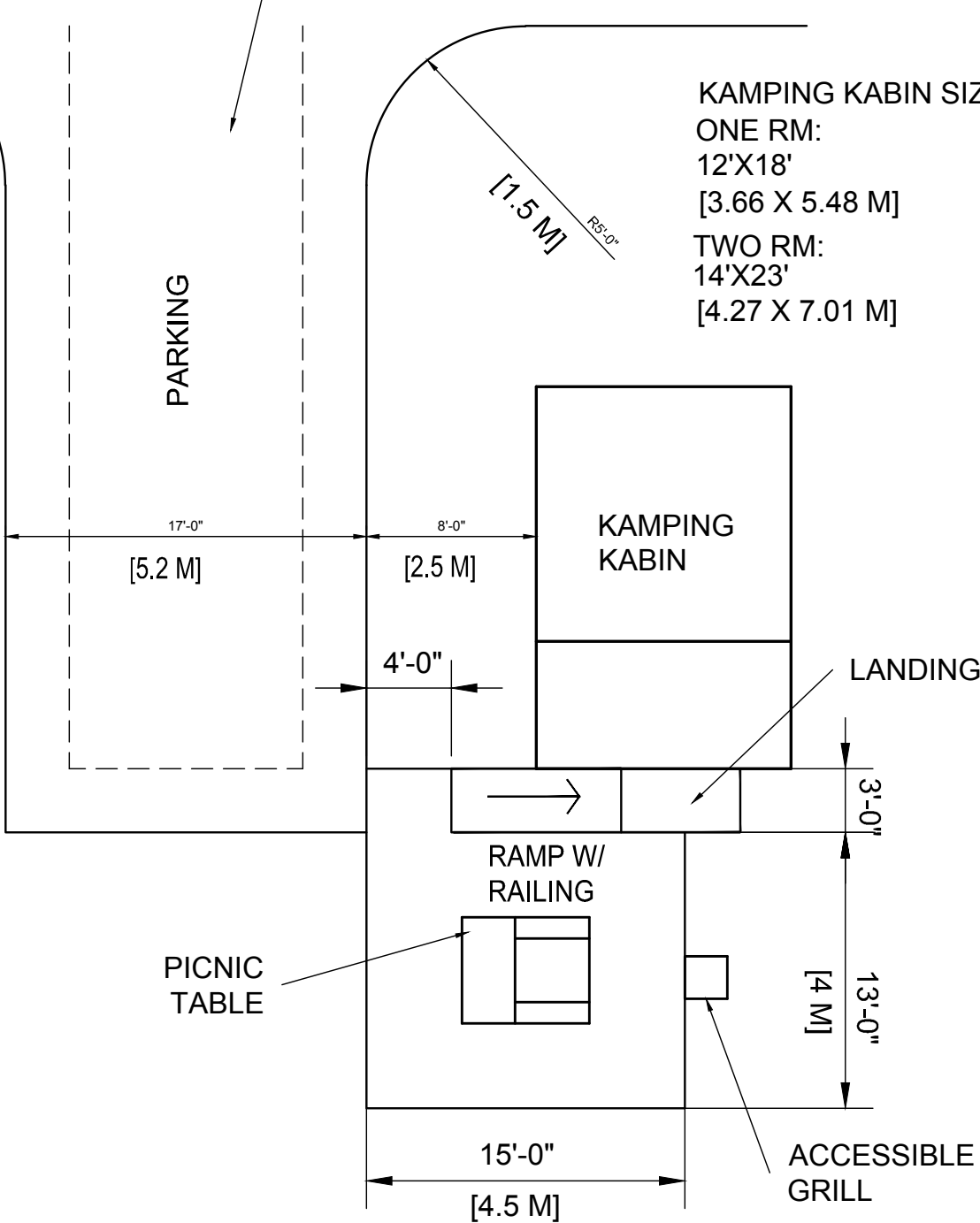


KOA DETAIL - TENT SITE
NOT TO SCALE



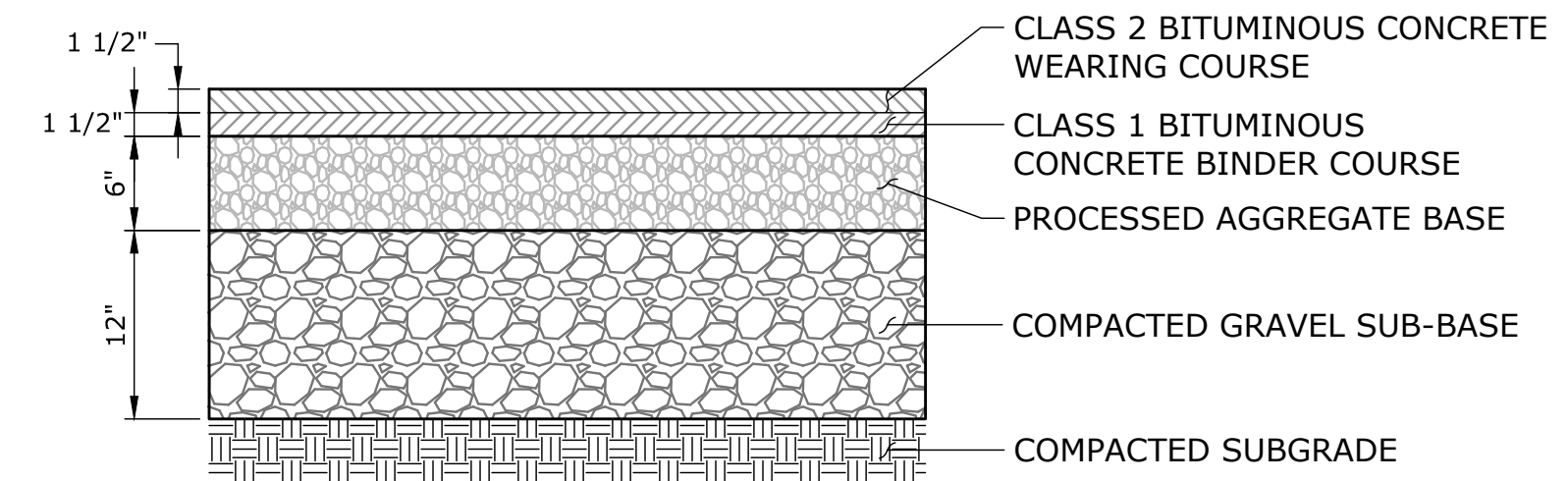
ACCESSIBLE PARKING STALL DETAIL
NOT TO SCALE

HAND-PACKED GRAVEL ASPHALT OR CONCRETE PAVING IN COMPLIANCE WITH ANSI117.1 AND ADA



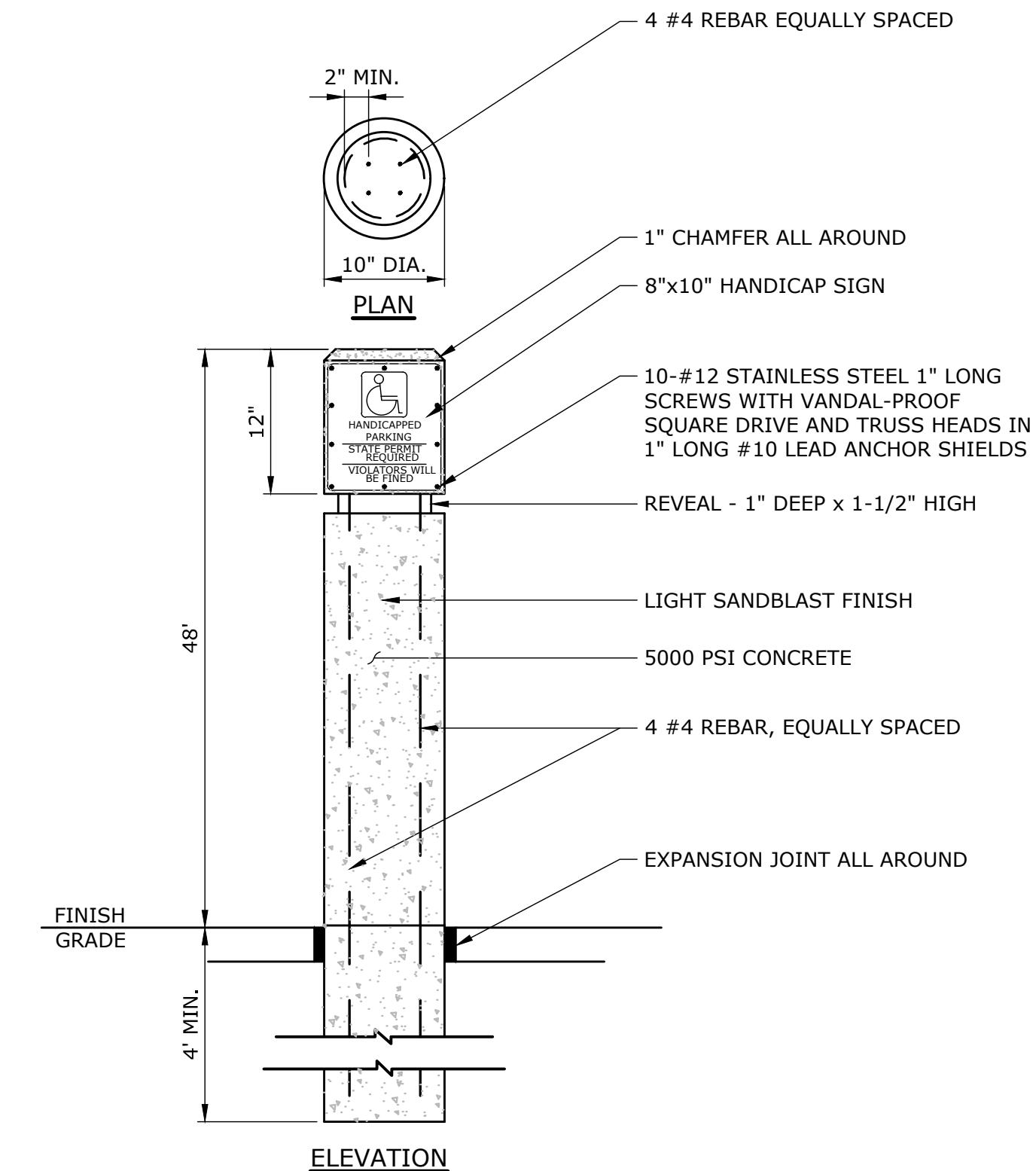
NOTE: SEE PLAN FOR ORIENTATION OF KABIN

KOA DETAIL - ACCESSIBLE CAMPING CABIN SITE
NOT TO SCALE



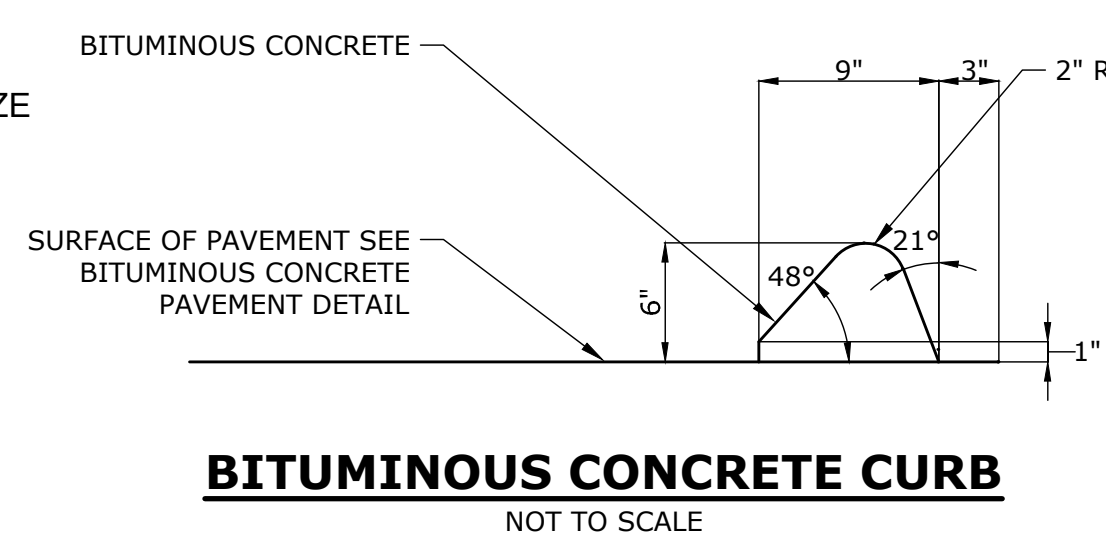
NOTES:
1. FULL DEPTH BITUMINOUS CONCRETE PAVEMENT REQUIRED AT ALL LOCATIONS WHERE PROPOSED FINISHED GRADES ARE LESS THAN SURFACE ELEVATIONS OF EXISTING BITUMINOUS CONCRETE PAVEMENT.
2. WHERE EXCAVATION IS REQUIRED TO ACHIEVE FINAL PAVEMENT GRADES, EXISTING PAVEMENT MUST BE REMOVED TO FULL DEPTH.

BITUMINOUS CONCRETE DRIVES AND ROADS
NOT TO SCALE

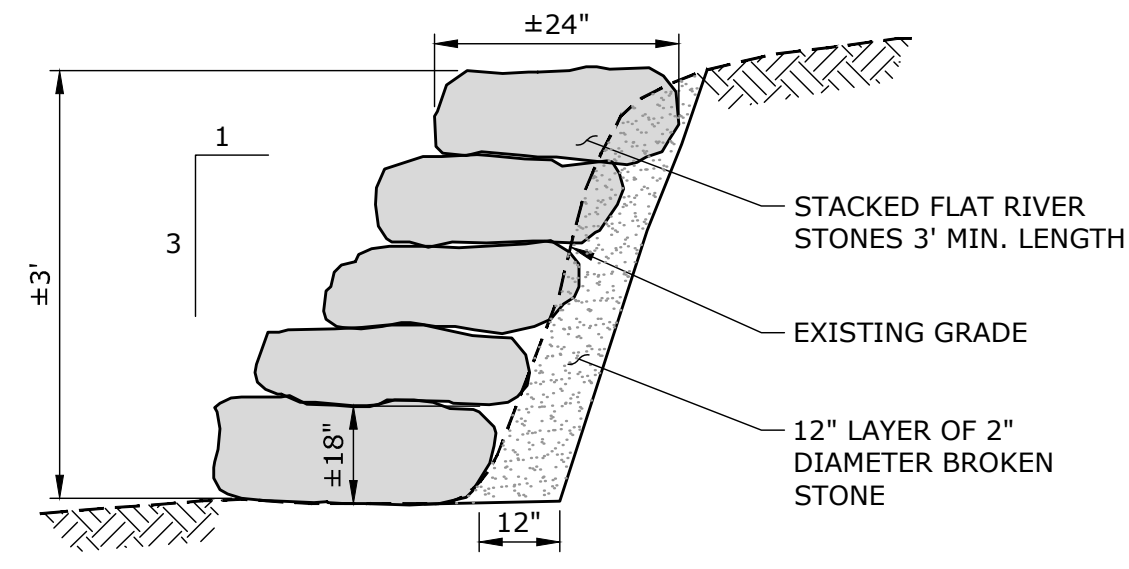


NOTES:
1. WHERE SHOWN IN SIDEWALK, SET SET FACE OF BOLLARD 6" MIN. BEHIND BACK OF CURB.

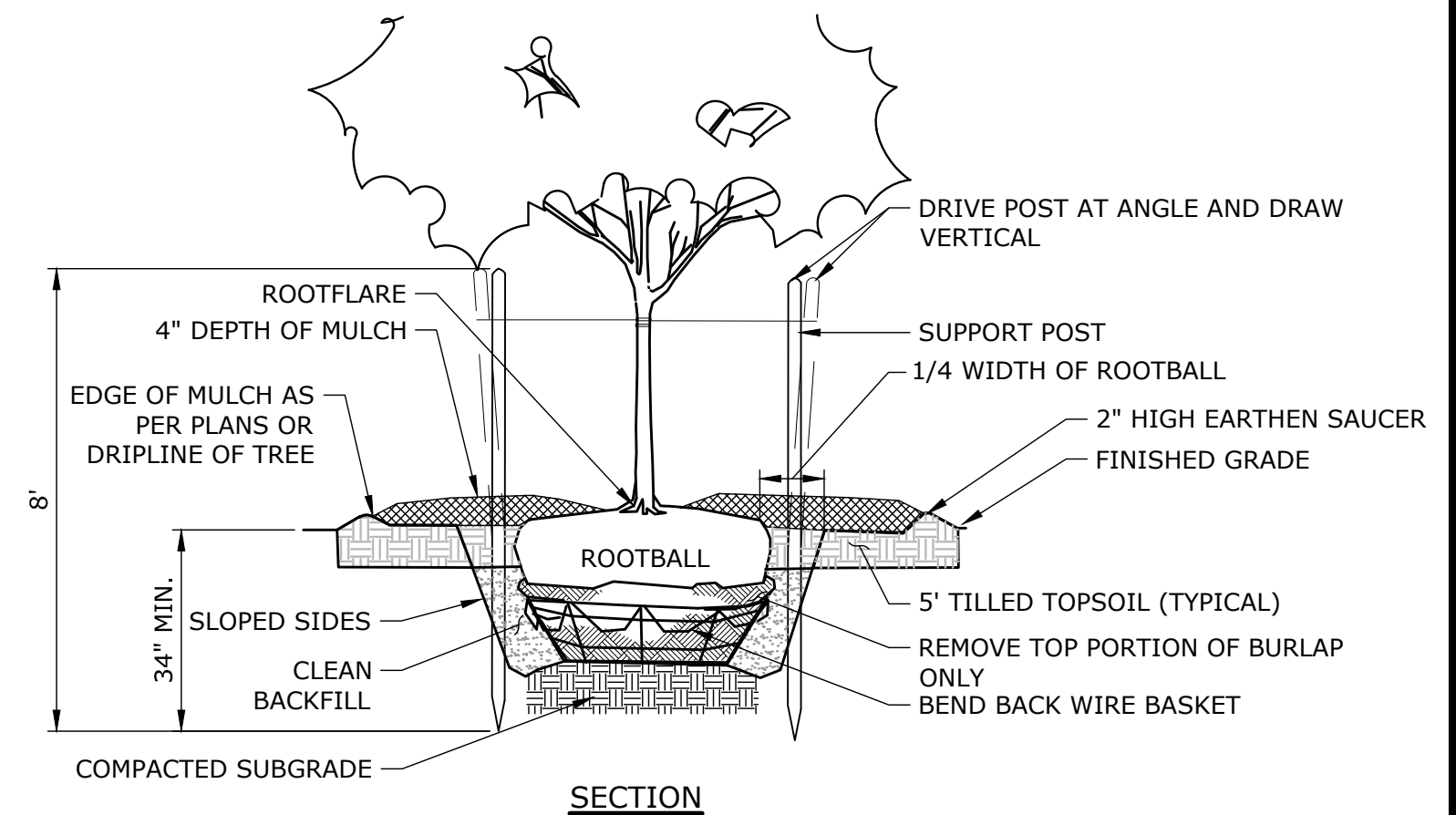
HANDICAPPED SIGN/BOLLARD
NOT TO SCALE



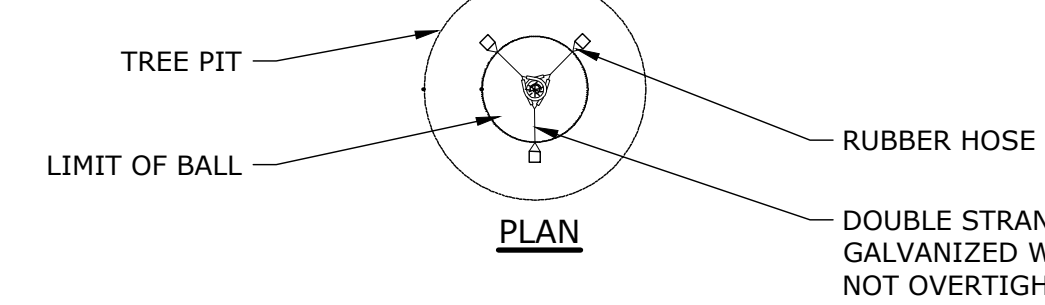
BITUMINOUS CONCRETE CURB
NOT TO SCALE



STACKED FLAT BOULDER WALL
NOT TO SCALE



SECTION



PLAN

NOTE:
1. SUPPORT STAKES SHALL BE REMOVED BY THE CONTRACTOR ONE YEAR AFTER INSTALLATION.

TREE PLANTING
NOT TO SCALE



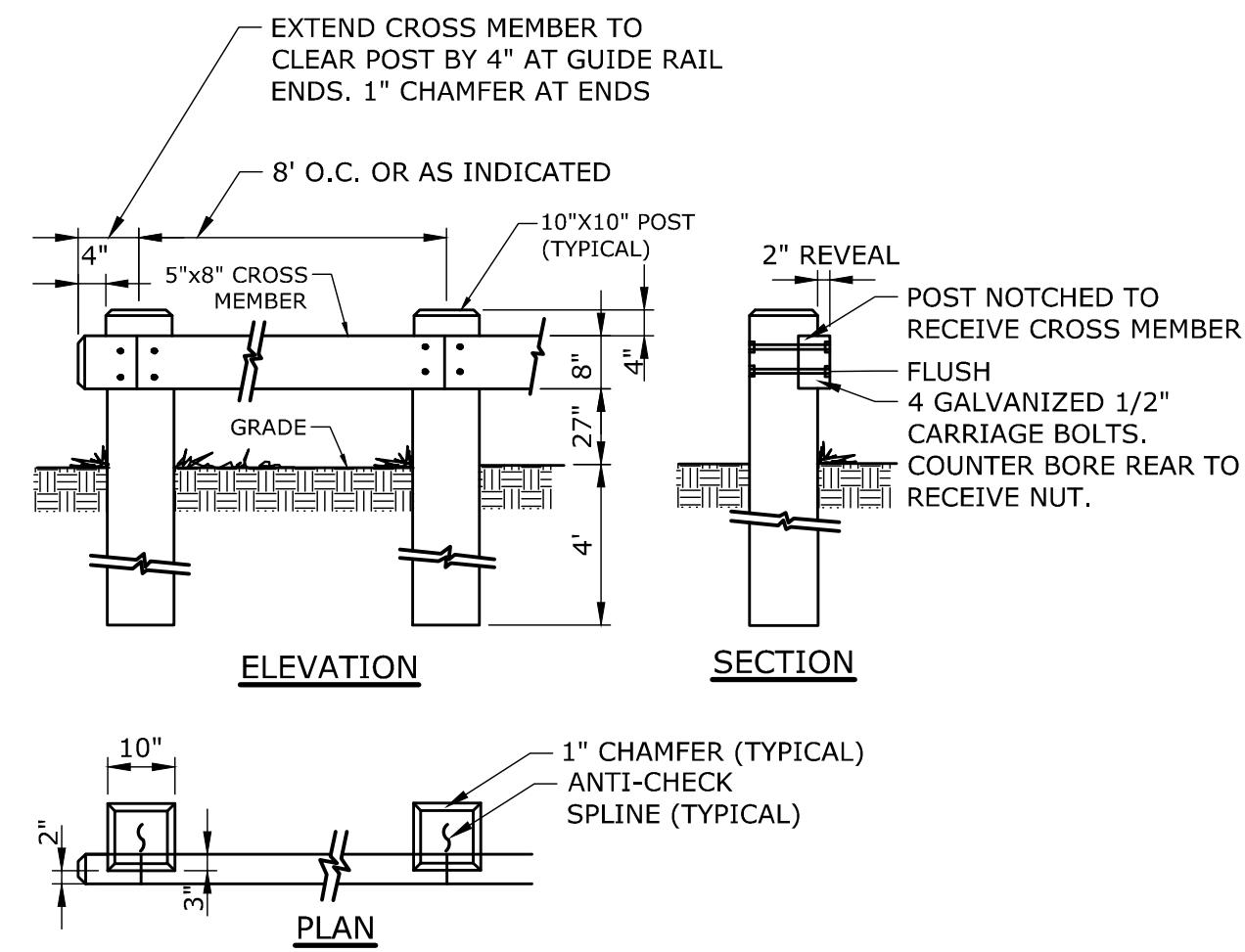
DESCRIPTION	DATE	BY

SITE DETAILS
LITCHFIELD HILLS CT
KOA CAMPGROUND
232 KLUG HILL ROAD
TORRINGTON, CONNECTICUT

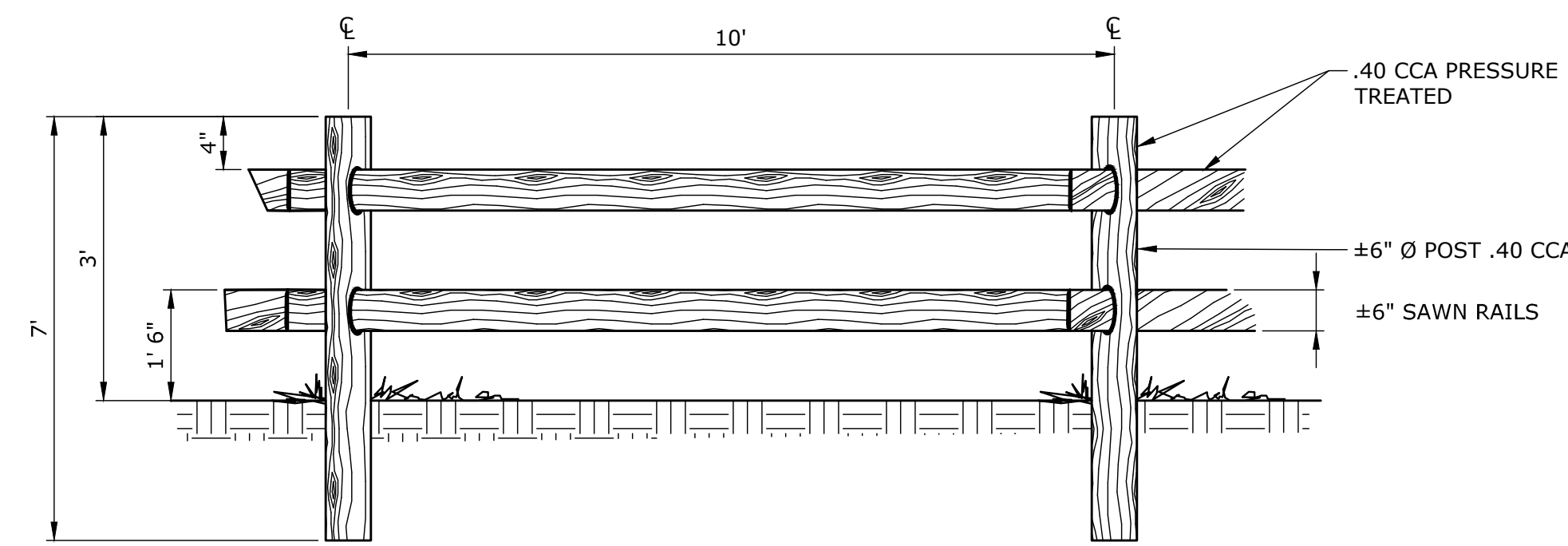
DESIGNED	MLA	RJM

SD-8

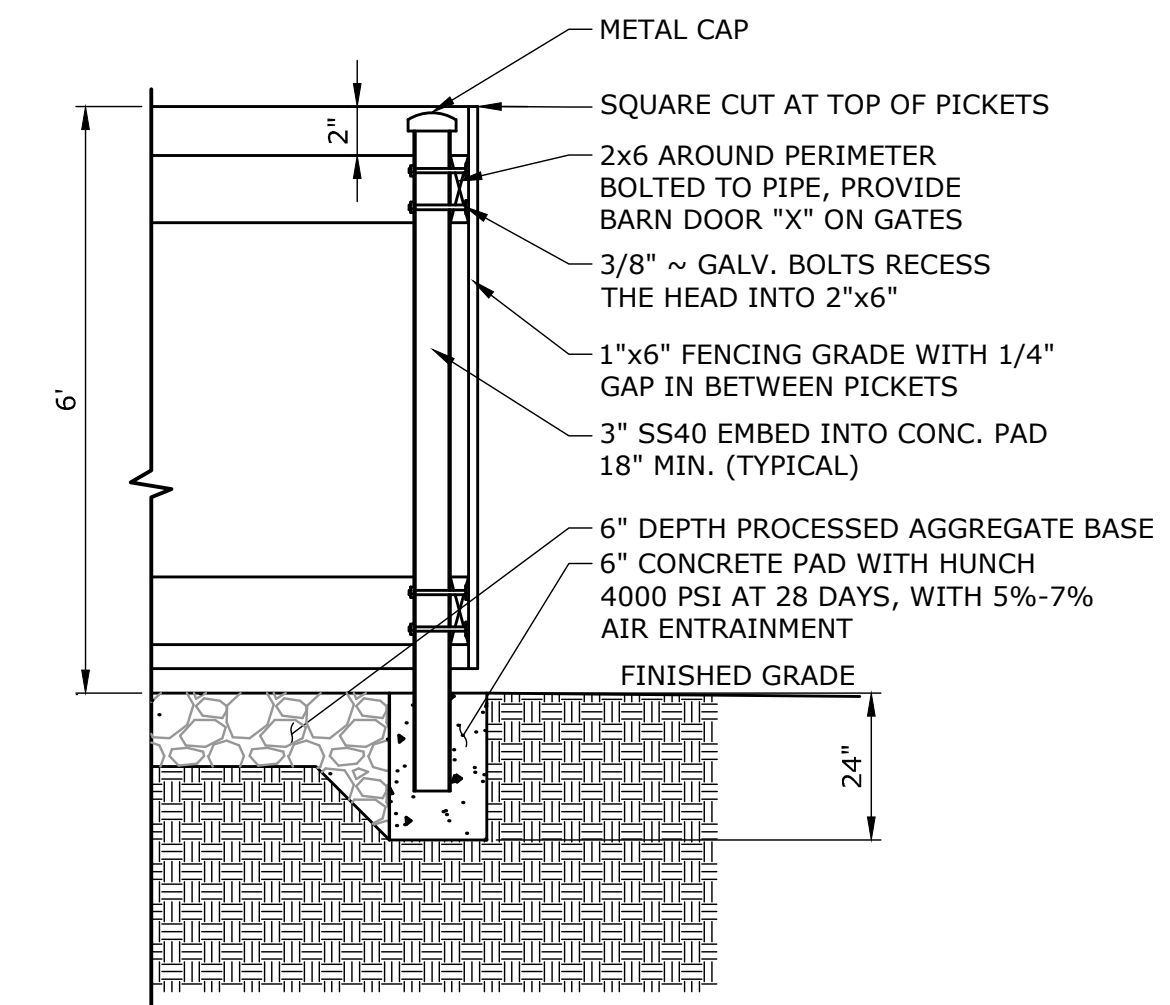
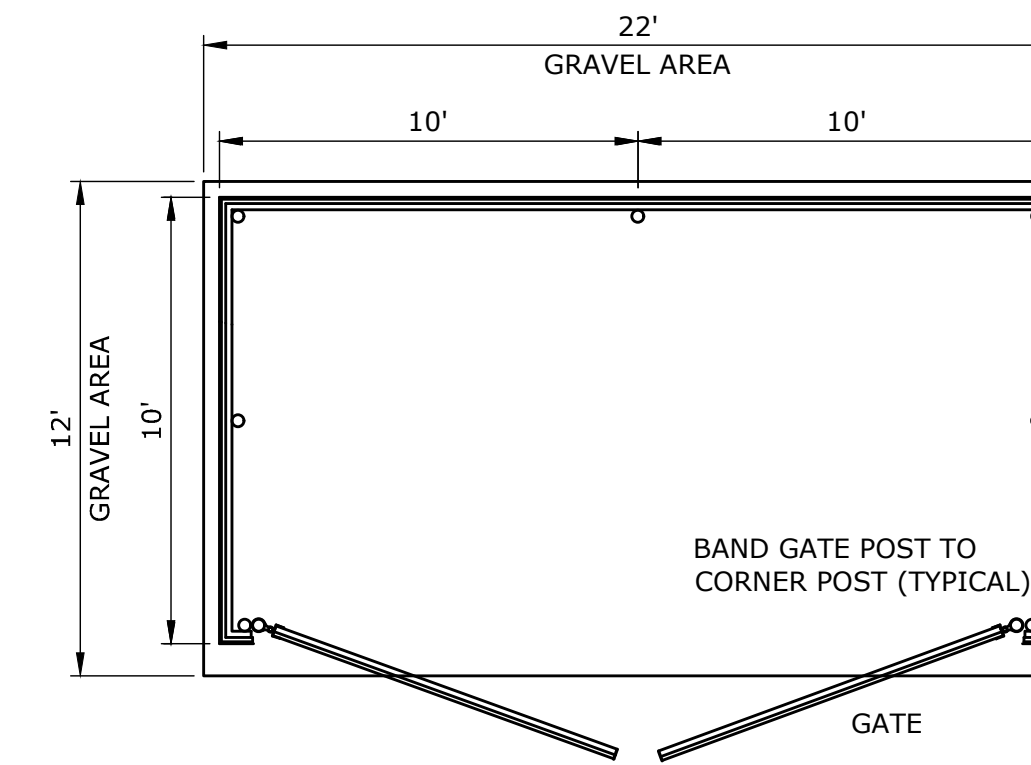
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**TIMBER GUIDE RAIL
FACEMOUNT 10x10 POSTS**
NOT TO SCALE



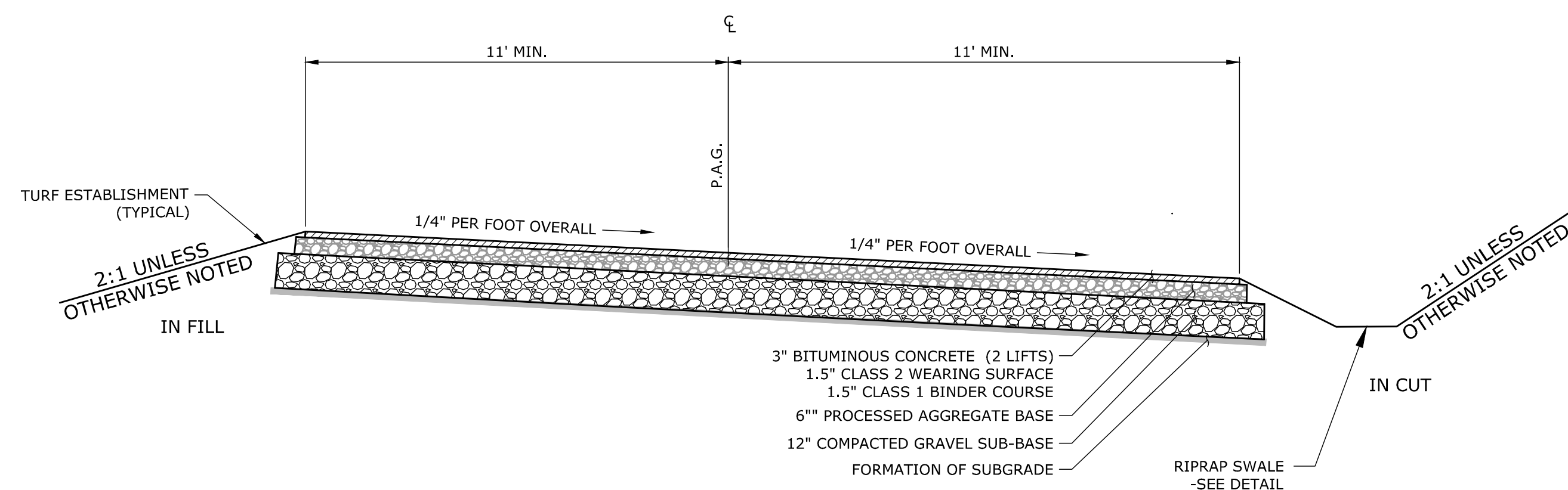
SPLIT RAIL FENCE
NOT TO SCALE



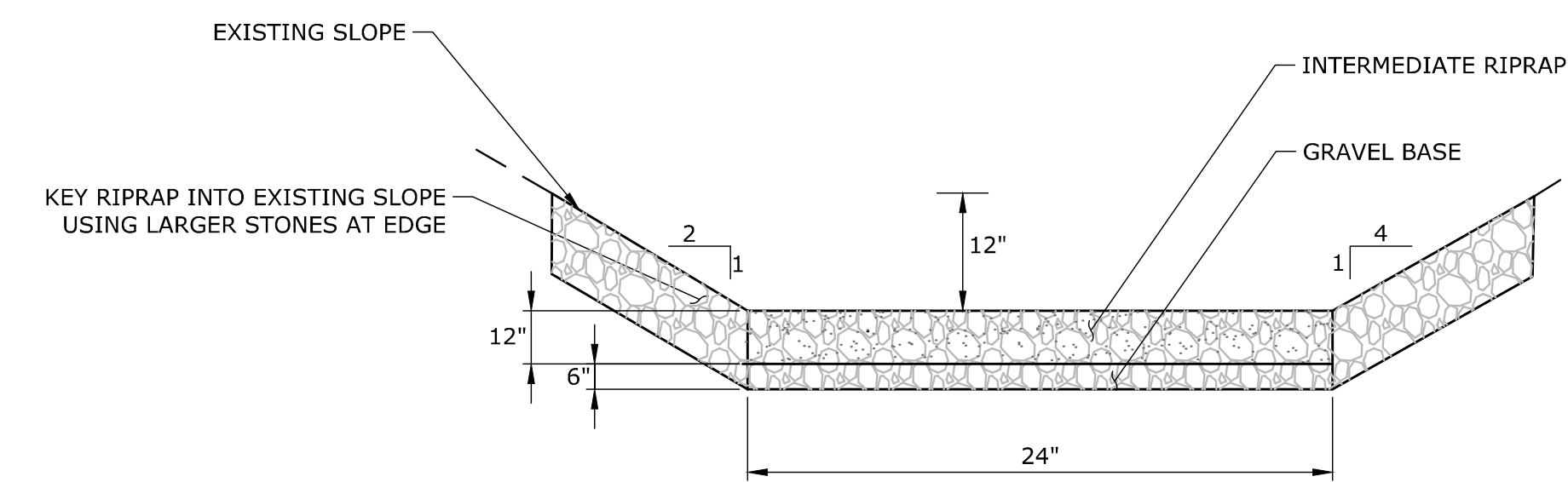
NOTES:

1. ALL WOODS TO BE WHITE CEDAR.

DUMPSTER SCREEN WITH STEEL FRAME
NOT TO SCALE



ROADWAY CROSS SECTION - TYPICAL
NOT TO SCALE



RIPRAP SWALE
NOT TO SCALE



99 REALTY DRIVE
SUITE 200
TORRINGTON, CT 06460
203.771.1771
SLRCONSULTING.COM

DESCRIPTION	DATE	BY
TOWN STAFF COMMENTS	1/10/2023	ACD
DETAIL REVISIONS	2/06/2023	ACD

SITE DETAILS
LITCHFIELDS HILLS CT
KOA CAMPGROUND
232 KLUG HILL ROAD
TORRINGTON, CONNECTICUT

ACD	ACD	RJM
DESIGNED	DRAWN	CHECKED

AS NOTED

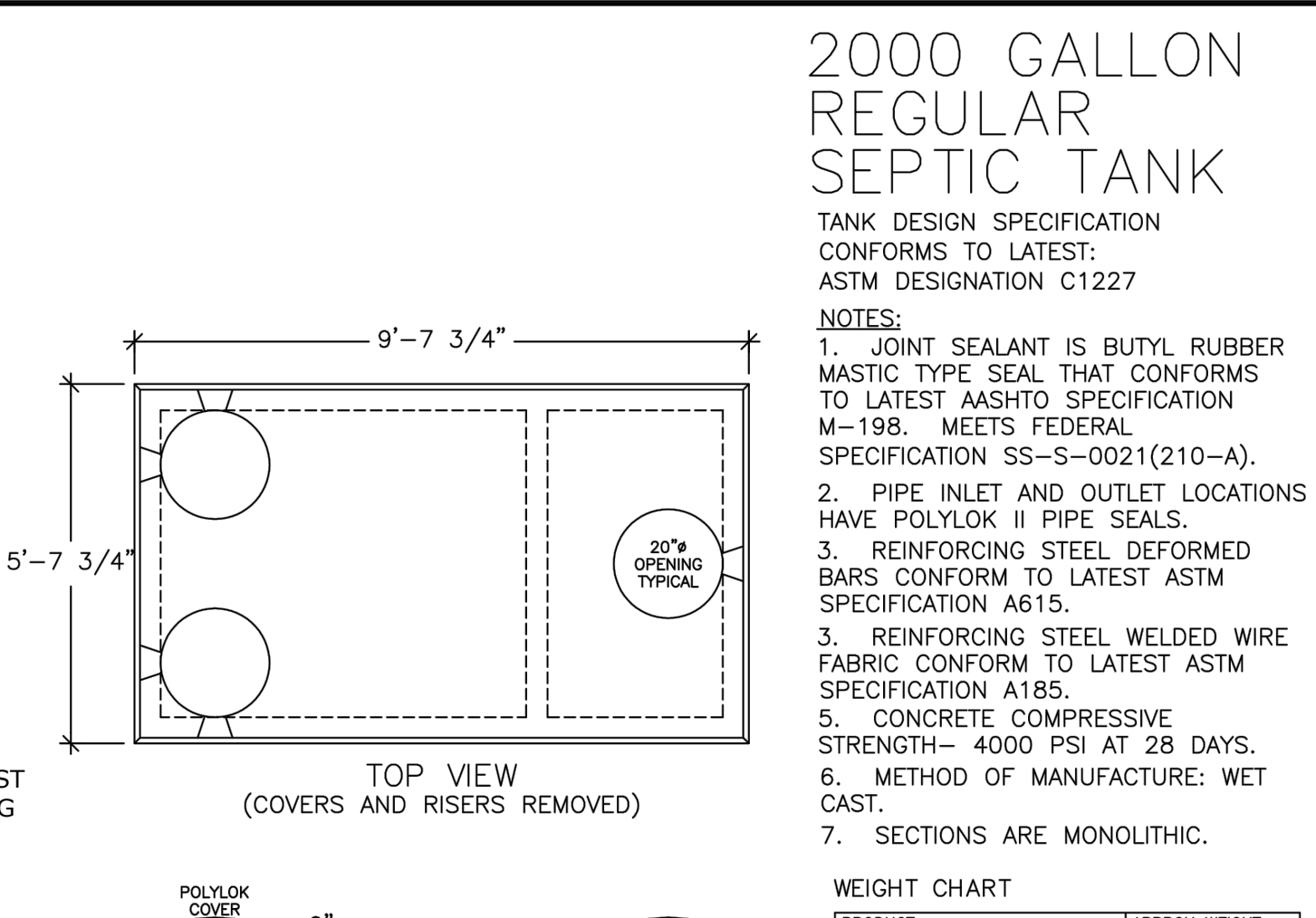
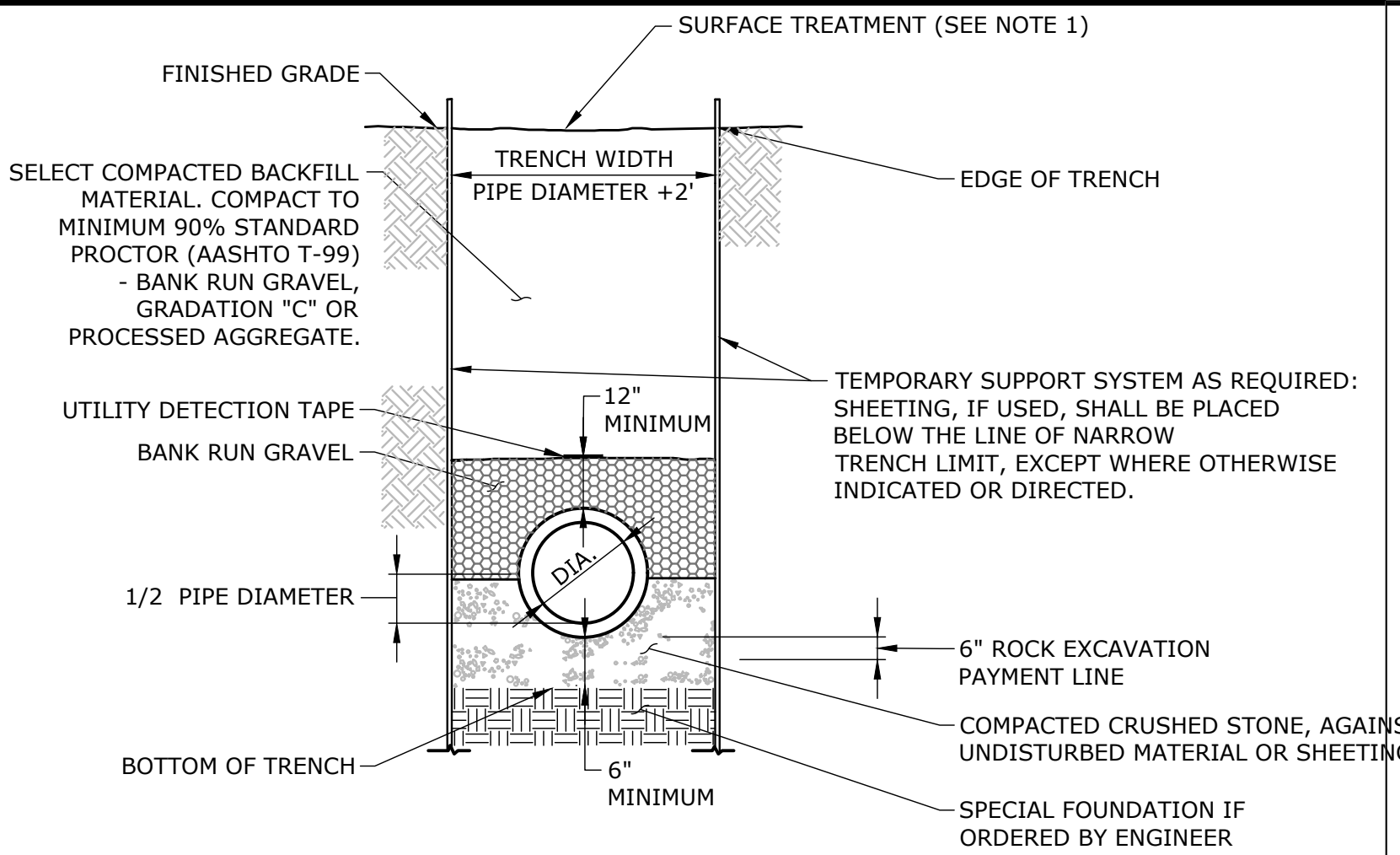
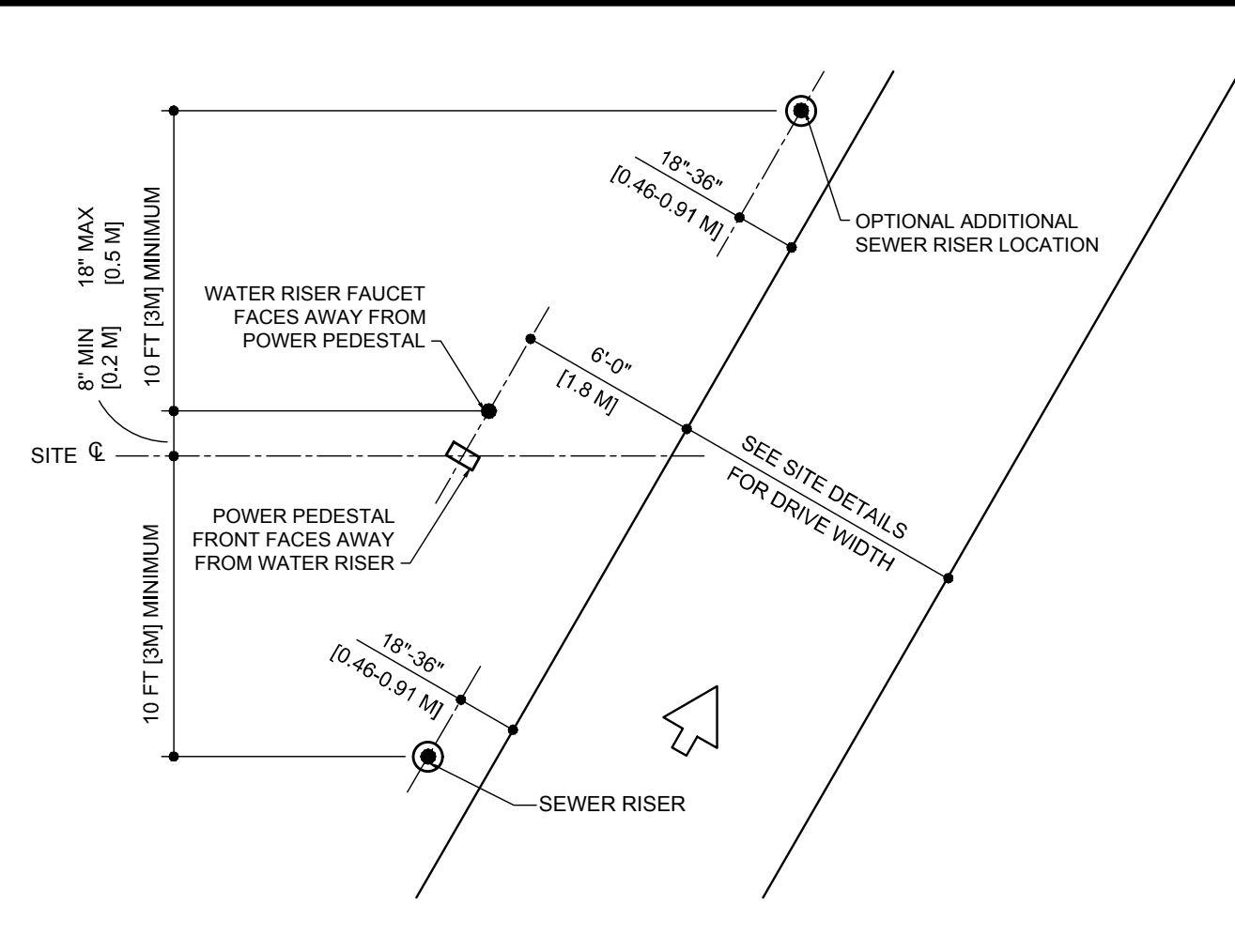
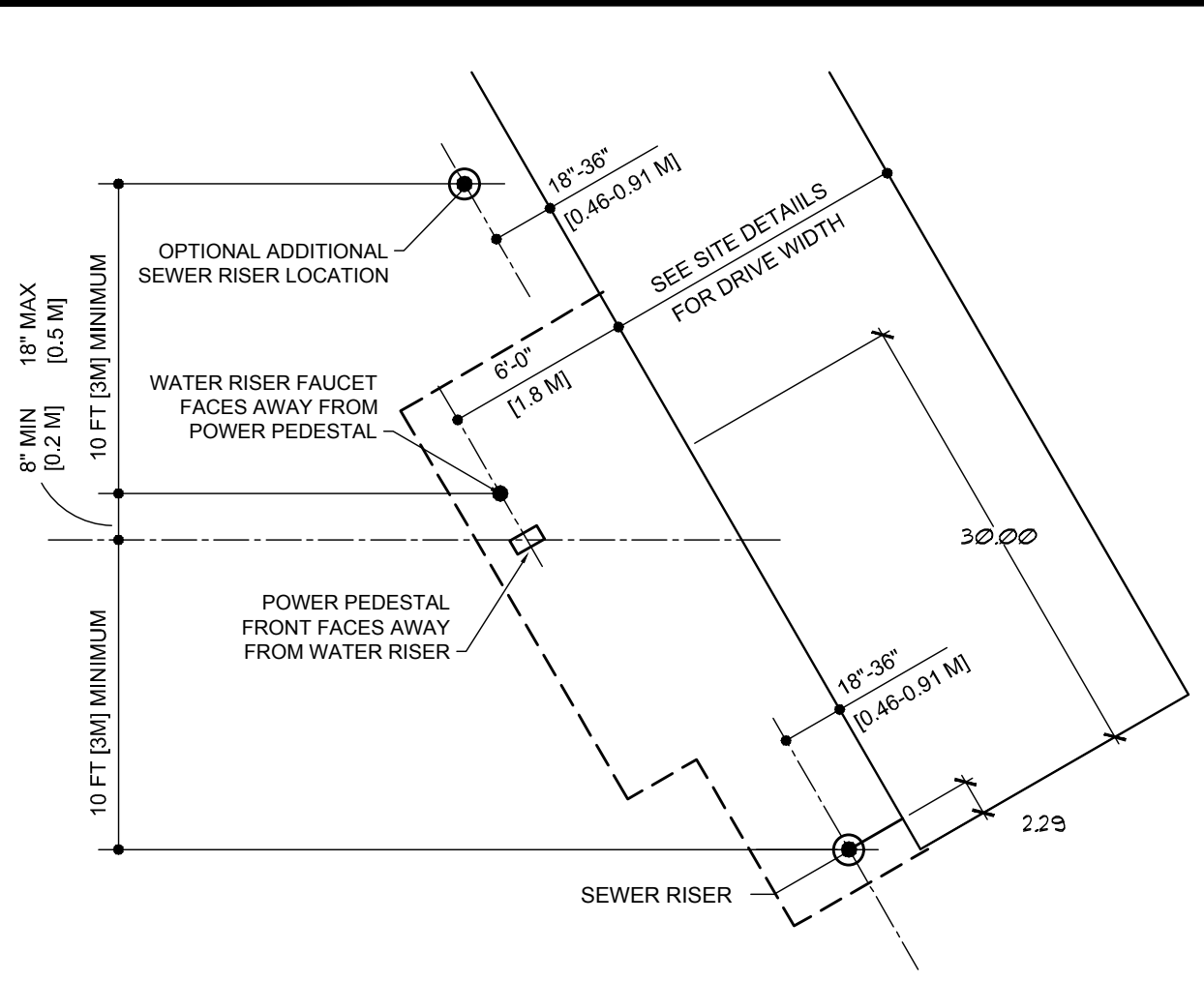
NOVEMBER 9, 2022

20174.00002

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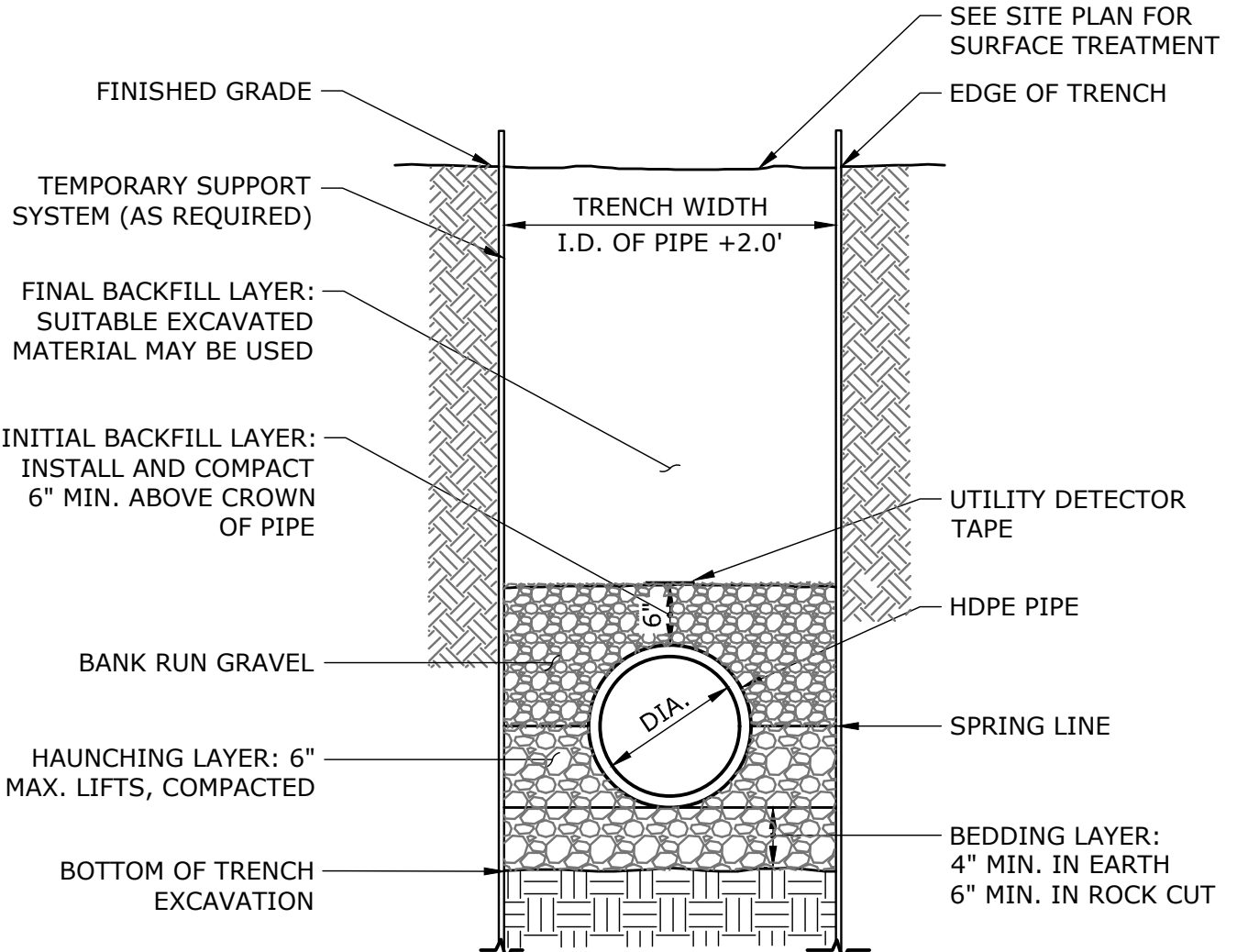
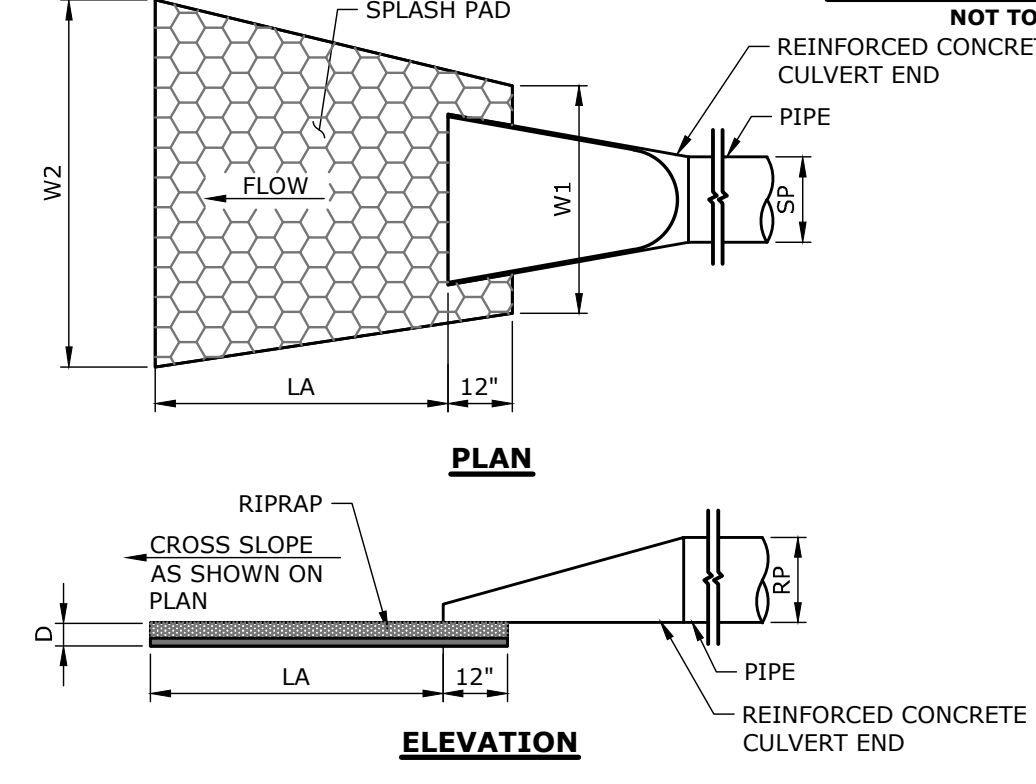
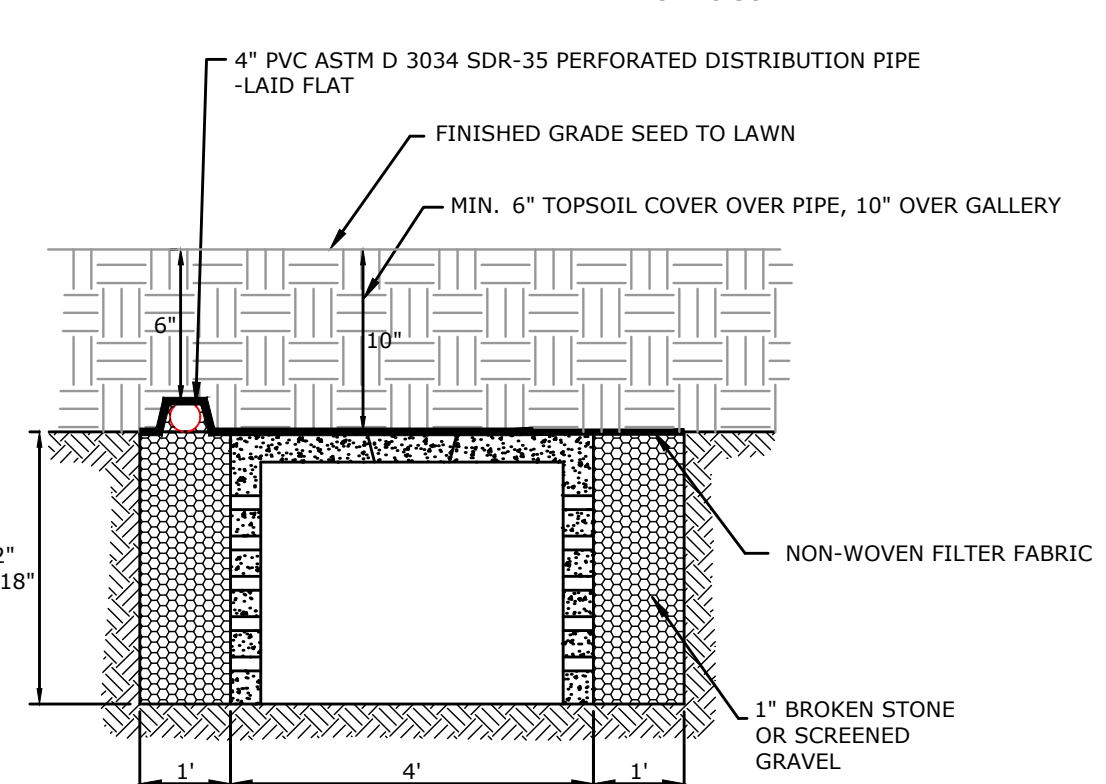


KOA DETAIL - BACK-IN SITE UTILITY LAYOUT DETAIL
NOT TO SCALE

KOA DETAIL - STANDARD PULL THROUGH UTILITY LAYOUT DETAIL
NOT TO SCALE

NOTES:
1. SEE APPROPRIATE DETAIL FOR PAVEMENT REPAIR INFORMATION WHEN INSTALLING SANITARY SEWER MAINS IN PAVED AREAS.

SANITARY SEWER TRENCH
NOT TO SCALE



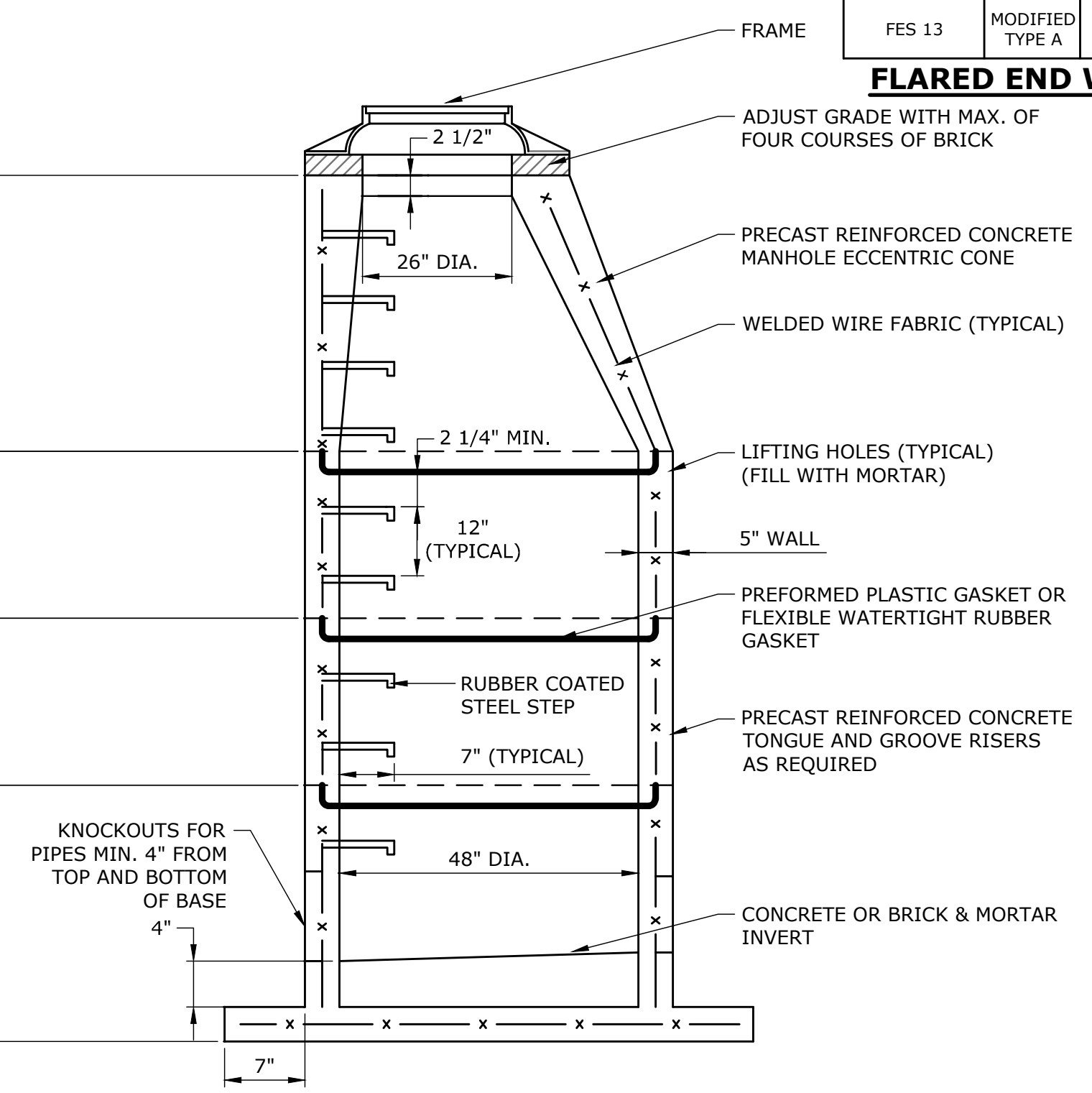
NOTES:
1. BACKFILL MATERIAL USED IN BEDDING AND HAUNCHING SHALL BE 3/4" CRUSHED STONE.
2. PAYMENT LIMIT FOR ROCK IN TRENCH TO BE PIPE DIAMETER + 3.0'

STORM DRAINAGE TRENCH
NOT TO SCALE

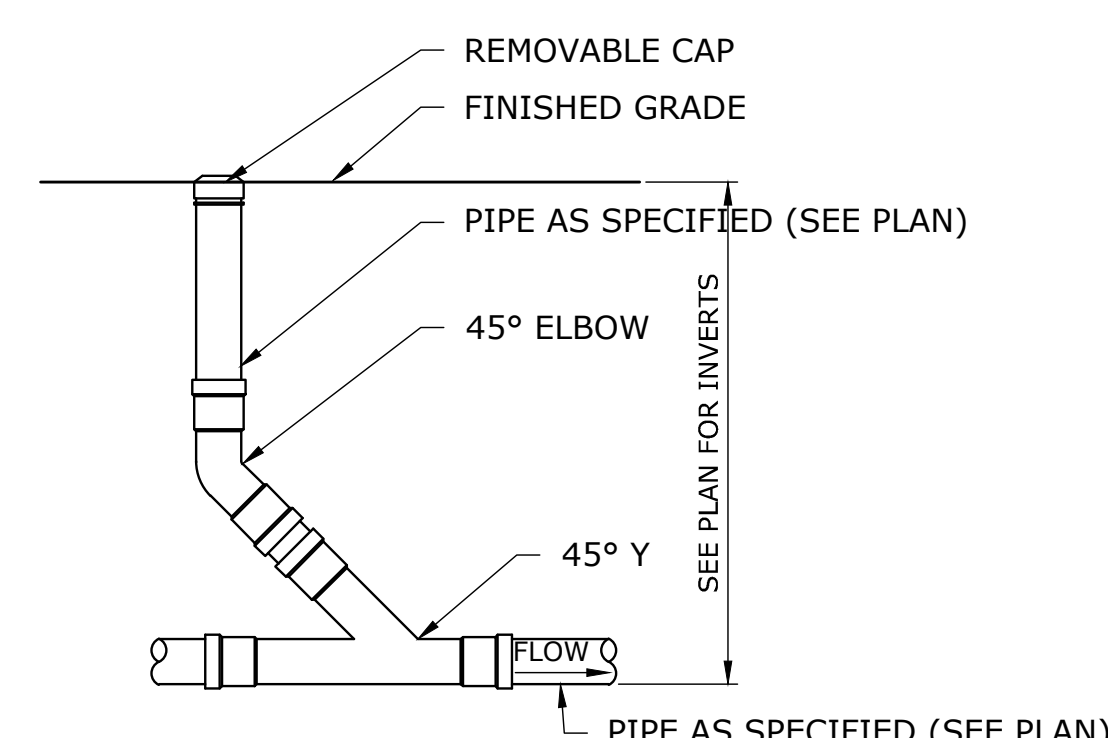
TYPICAL SECTION THRU LEACHING GALLERY WITH TOP DISTRIBUTION PIPE
NOT TO SCALE

OUTLET PROTECTION ID	TYPE	SP (FT)	RP (FT)	LA (FT)	W1 (FT)	W2 (FT)	D (IN)
FES 5	INTERMEDIATE TYPE A	1.0	1.0	10.0	3.0	10.0	18
FES 8	STANDARD TYPE B	1.0	1.0	12.0	3.0	8.0	36
FES 13	MODIFIED TYPE A	1.0	1.0	10.0	3.0	10.0	12

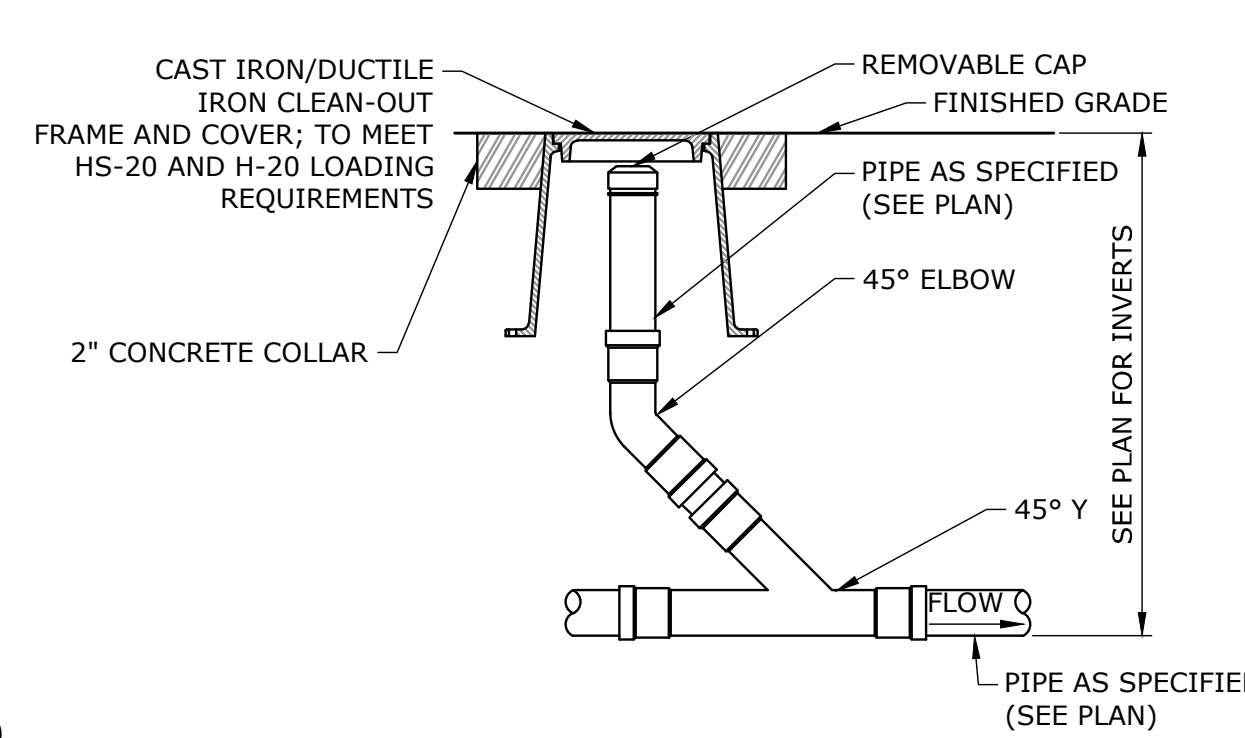
FLARED END WITH RIP RAP SPLASH PAD
NOT TO SCALE



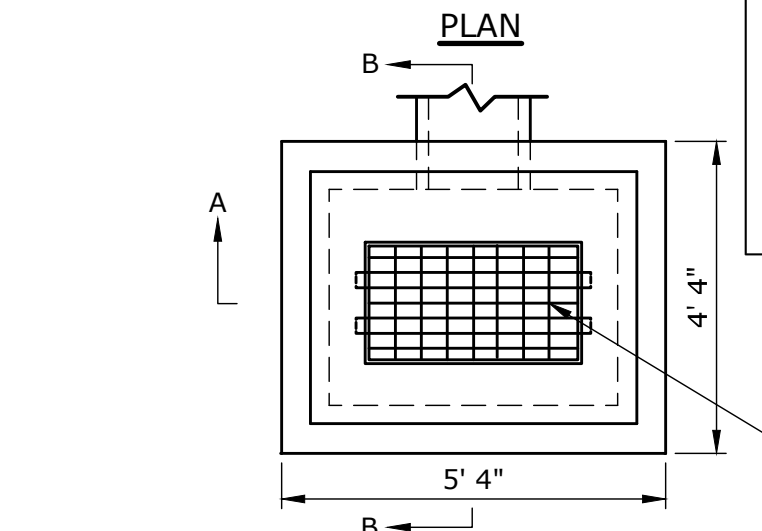
STORM MANHOLE
NOT TO SCALE



SANITARY/STORM CLEANOUT
NOT TO SCALE

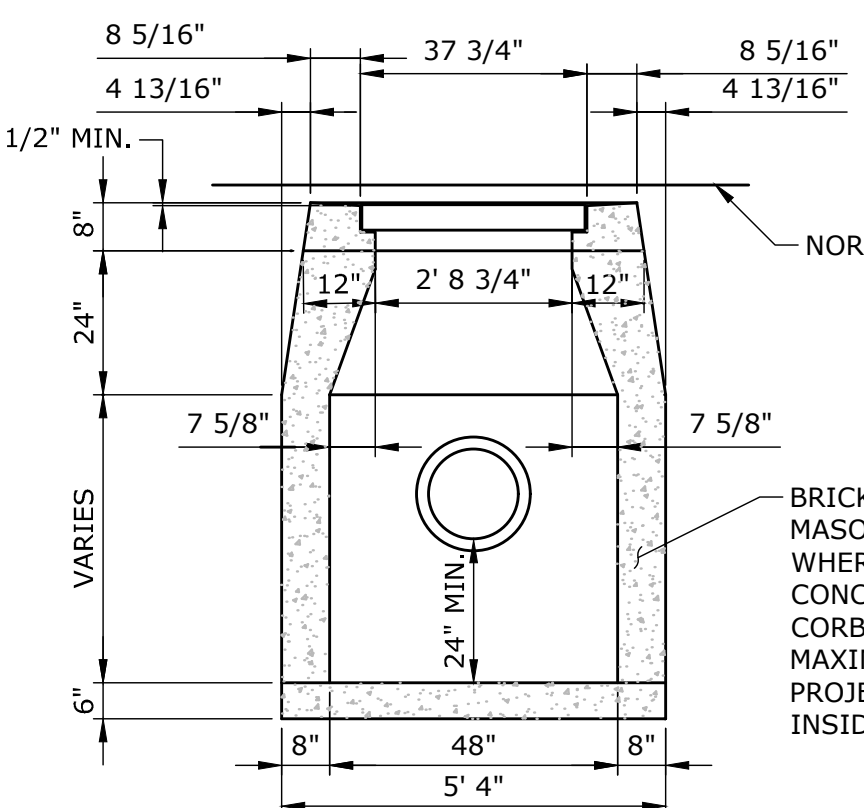


SANITARY/STORM CLEANOUT FOR USE ON PAVED AREAS
NOT TO SCALE

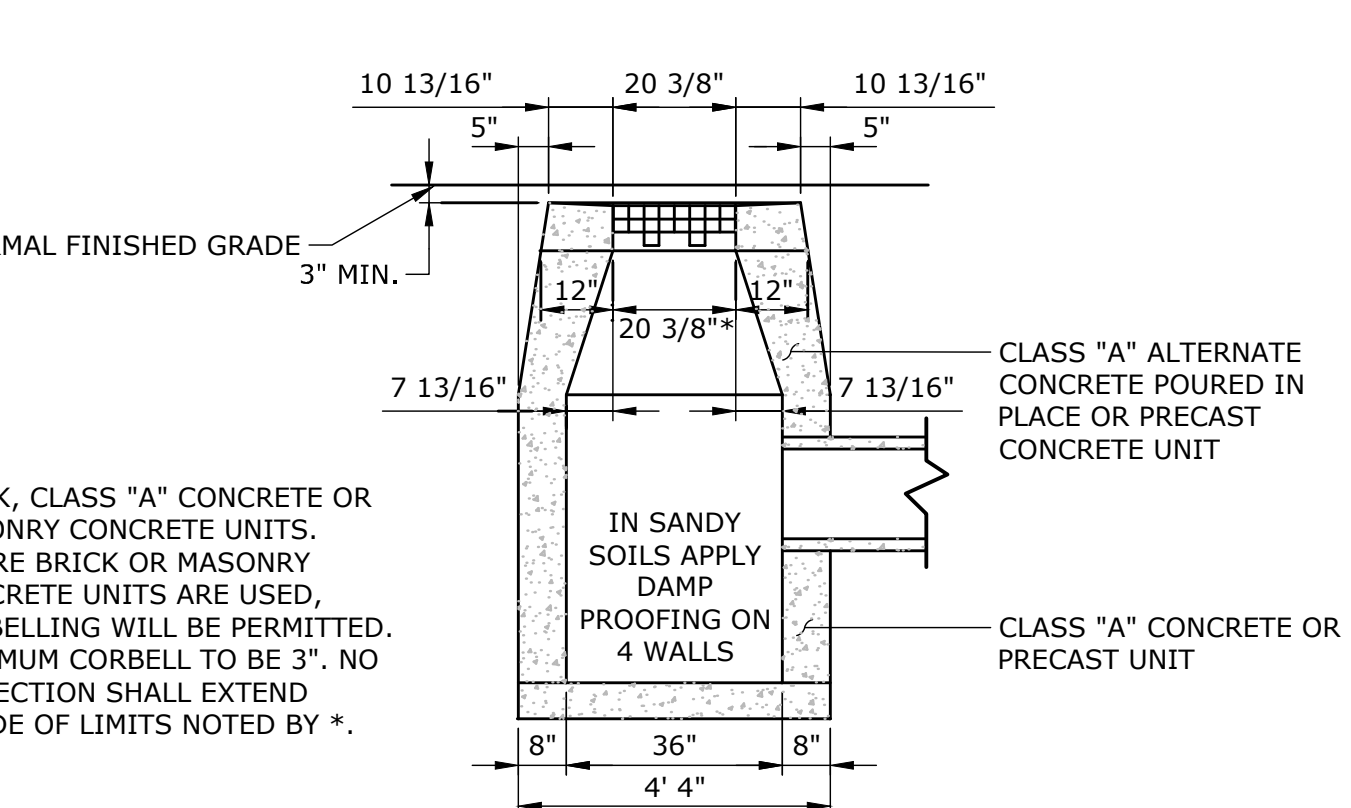


TYPE 'C-L' CATCH BASIN
NOT TO SCALE

NOTES:
1. WHERE PRECAST CONCRETE UNIT IS USED FOR SUMP, THE TOP OF THE UNIT SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE PIPE OUTLETTING FROM THE CATCH BASIN.

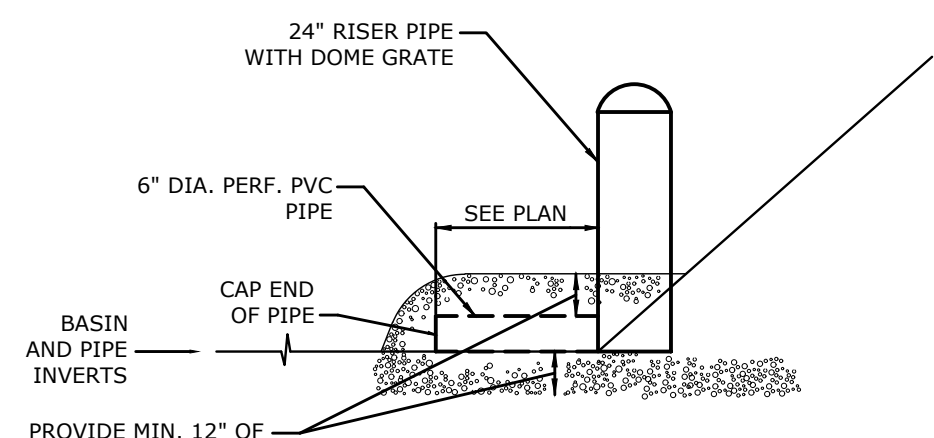


SECTION A-A



SECTION B-B

DEWATERING UNDERDRAIN
NOT TO SCALE



DEWATERING UNDERDRAIN
NOT TO SCALE

UNITED CONCRETE PRODUCTS INC.
173 CHURCH STREET TEL. 800 234-3119 FAX. (203) 265-4941
YALEVILLE, CT 06492 (203) 269-3119



DESCRIPTION	DATE	BY
RIP RAP SWALE DETAIL	12/7/2022	ACD
TOWN STAFF COMMENTS	11/10/2022	ACD

SITE DETAILS
LITCHFIELDS HILLS CT
KOA CAMPGROUND
232 KLUG HILL ROAD
TORRINGTON, CONNECTICUT

DESIGNED	MLA	RJM
DRAWN		CHECKED
NOT TO SCALE		
NOVEMBER 9, 2022		
DATE		
20174.00002		
PROJECT NO.		
29 OF 30		
SHEET NO.		

SD-10

FORMATION OF EMBANKMENTS FOR STORMWATER BASINS

1. MATERIALS

ALL FILL MATERIALS SHALL BE OBTAINED FROM REQUIRED EXCAVATIONS OR DESIGNATED BORROW AREAS. FILL MATERIAL SHALL NOT BE FROZEN MATERIAL, SOIL, BRUSH, ROOTS, OR OTHER ORGANIC MATERIAL. EARTH EMBANKMENTS SHALL CONTAIN NO STONES OR ROCK PARTICLES OVER THREE INCHES IN DIAMETER.

THE MATERIAL USED IN THE CENTER PORTION OF THE EMBANKMENT SHALL BE THE MOST IMPERVIOUS MATERIAL OBTAINED FROM THE BORROW AREAS IF REQUIRED. THE MORE PERVIOUS MATERIALS SHALL BE USED IN THE OUTER PORTION OF THE EMBANKMENT AS SHOWN ON THE PLANS.

A. IMPERVIOUS FILL MATERIALS

IMPERVIOUS FILL SHALL BE A GLACIAL TILL, AND TO BE PROVIDED FROM THE OFFSITE SOURCE IN THE QUANTITIES REQUIRED FOR COMPLETION. FILL TO BE APPROVED BY THE ENGINEER. GLACIAL TILL SHALL CONSIST OF HARD AND DURABLE PARTICLES OR FRAGMENTS AND SHALL BE FREE FROM ORGANIC MATTER AND OTHER OBJECTIONABLE MATERIALS. GLACIAL TILL SHALL GENERALLY CONFORM TO THE FOLLOWING GRADATION LIMITS:

U.S. STANDARD SIEVE SIZE	PERCENTAGE PASSING BY WEIGHT
3 INCH	100
NO. 4	60-95
NO. 10	50-95
NO. 40	30-75
NO. 100	20-65
NO. 200	10-40

2. EMBANKMENT FOUNDATION PREPARATION

AREAS WHERE EMBANKMENTS ARE TO BE FORMED SHALL BE CLEARED AND GRUBBED OF ALL TOPSOIL AND OTHER ORGANIC MATERIALS TO A DEPTH OF AT LEAST 24 INCHES, UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS. FOUNDATION AREAS SHALL BE SCARIFIED TO A DEPTH OF THREE INCHES PRIOR TO PLACEMENT OF FILL MATERIAL.

3. PLACEMENT

NO FILL SHALL BE PLACED UNTIL THE FOUNDATION PREPARATION AND EXCAVATIONS IN THE FOUNDATION HAVE BEEN COMPLETED. NO FILL SHALL BE PLACED ON A FROZEN SURFACE NOR SHALL FROZEN MATERIAL BE INCORPORATED.

A. EMBANKMENT

MATERIAL SHALL BE PLACED IN HORIZONTAL LAYERS. THE THICKNESS OF LAYERS SHALL BE SIX INCHES. DURING CONSTRUCTION, THE SURFACE OF THE FILL SHALL HAVE A CROWN OR CROSS-SLOPE OF NOT LESS THAN TWO PERCENT. EACH LAYER OR LIFT SHALL EXTEND OVER THE ENTIRE AREA OF THE FILL.

THE FILL SHALL BE FREE FROM LENSES, POCKETS, STREAKS, OR LAYERS OF MATERIAL DIFFERING SUBSTANTIALLY IN TEXTURE OR GRADATION FROM THE SURROUNDING MATERIAL. THE MORE PERVIOUS MATERIAL SHALL BE PLACED IN THE OUTSIDE PORTION OF THE EMBANKMENT OR AS INDICATED ON THE DRAWINGS. THE FINISHED FILL SHALL BE SHAPED AND GRADED TO THE LINES AND GRADE SHOWN ON THE DRAWINGS.

B. BACKFILL AT THE PIPE OUTLET

BACKFILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED THREE INCHES IN THICKNESS AND SHALL BE BROUGHT UP UNIFORMLY AROUND THE OUTLET PIPE AND FLARED END SECTION

4. MOISTURE CONTROL

THE MOISTURE CONTENT OF MATERIALS IN THE EMBANKMENT SHALL BE CONTROLLED TO MEET THE REQUIREMENTS OF SECTION 5. "COMPACTION OF EMBANKMENT." WHEN NECESSARY, MOISTURE SHALL BE ADDED BY USE OF APPROVED SPRINKLING EQUIPMENT. WATER SHALL BE ADDED UNIFORMLY AND EACH LAYER SHALL BE THOROUGHLY DISKED OR HARROWED TO PROVIDE ROPE MIXING. ANY LAYER FOUND TOO WET FOR PROPER COMPACTION SHALL BE ALLOWED TO DRY BEFORE ROLLING. PLACING OR ROLLING OF MATERIAL ON EARTH FILLS WILL NOT BE PERMITTED DURING OR IMMEDIATELY AFTER RAINFALLS WHICH INCREASE THE MOISTURE CONTENT BEYOND THE LIMIT OF SATISFACTORY COMPACTION. THE EARTH FILL SHALL BE BROUGHT UP UNIFORMLY AND ITS TOP SHALL BE KEPT GRADED AND SLOPED SO THAT A MINIMUM OF RAINWATER WILL BE RETAINED THEREON. COMPACTED EARTH FILL DAMAGED BY WASHING SHALL BE ACCEPTABLY REPLACED BY THE CONTRACTOR.

5. COMPACTION

A. EMBANKMENT

EMBANKMENT MATERIAL SHALL BE COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY AT NEAR OPTIMUM MOISTURE CONTENT AND BY THE COMPACTION EQUIPMENT SPECIFIED HEREIN. THE COMPACTION EQUIPMENT SHALL TRAVERSE THE ENTIRE SURFACE OF EACH LAYER OF FILL MATERIAL.

APPROVED TAMPING ROLLERS SHALL BE USED FOR COMPACTION ALL PARTS OF THE EMBANKMENTS WHICH THEY CAN EFFECTIVELY REACH. THE CONTRACTOR SHALL DEMONSTRATE THE EFFECTIVENESS OF THE ROLLER BY ACTUAL SOIL COMPACTION RESULTS OF THE SOIL TO BE USED IN THE EMBANKMENT WITH LABORATORY WORK PERFORMED BY AN APPROVED SOIL TESTING LABORATORY.

B. BACKFILL AT OUTLET CONDUIT

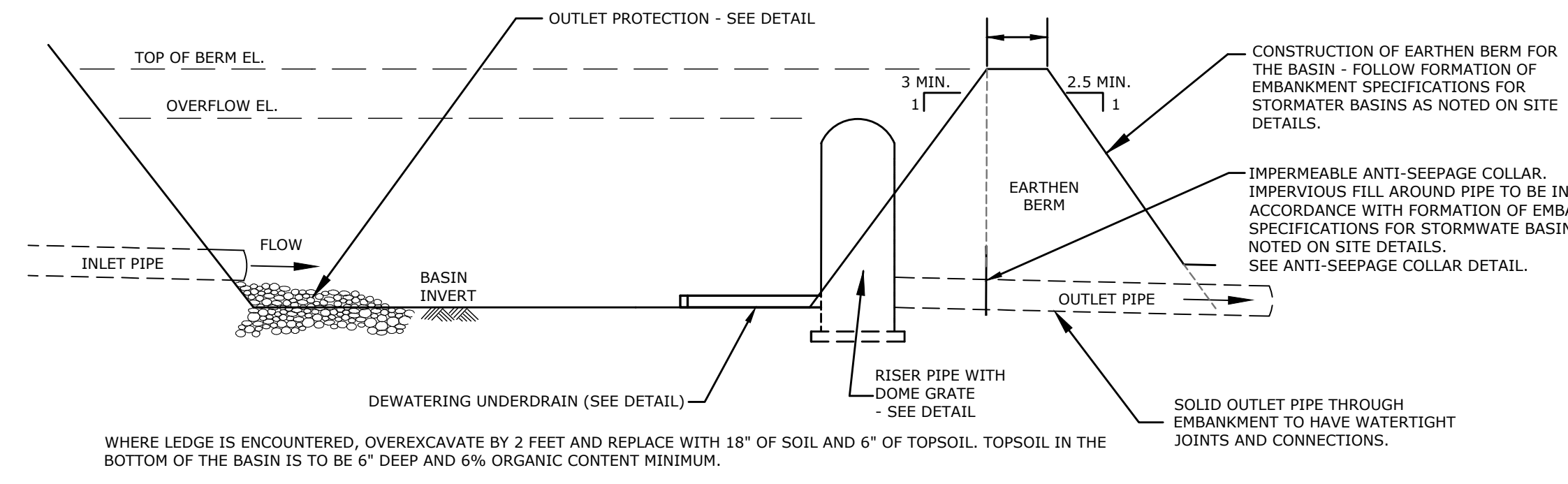
BACKFILL SHALL BE COMPACTED BY HAND TAMPING WITH MECHANICAL TAMPERS. HEAVY EQUIPMENT SHALL NOT BE OPERATED WITHIN TWO FEET OF ANY STRUCTURE. EQUIPMENT SHALL NOT BE ALLOWED TO OPERATE OVER THE OUTLET CONDUITS UNTIL THERE IS 24 INCHES OF FILL OVER THE PIPE CONDUITS.

6. FINISHING EMBANKMENTS

THE EMBANKMENTS SHALL BE CONSTRUCTED TO THE ELEVATIONS, LINES, GRADES AND CROSS-SECTIONS AS SHOWN ON THE DRAWINGS. THE EMBANKMENTS SHALL BE MAINTAINED IN A MANNER SATISFACTORY TO THE ENGINEER AND SURFACES SHALL BE COMPACT AND ACCURATELY GRADED BEFORE TOPSOIL IS PLACED ON THEM. THE CONTRACTOR SHALL CHECK THE EMBANKMENT SLOPES WITH STRING LINES TO INSURE THAT THEY CONFORM TO THE SLOPES GIVEN ON THE PLANS AND ARE UNIFORM FOR THE ENTIRE LENGTH OF THE SLOPE.

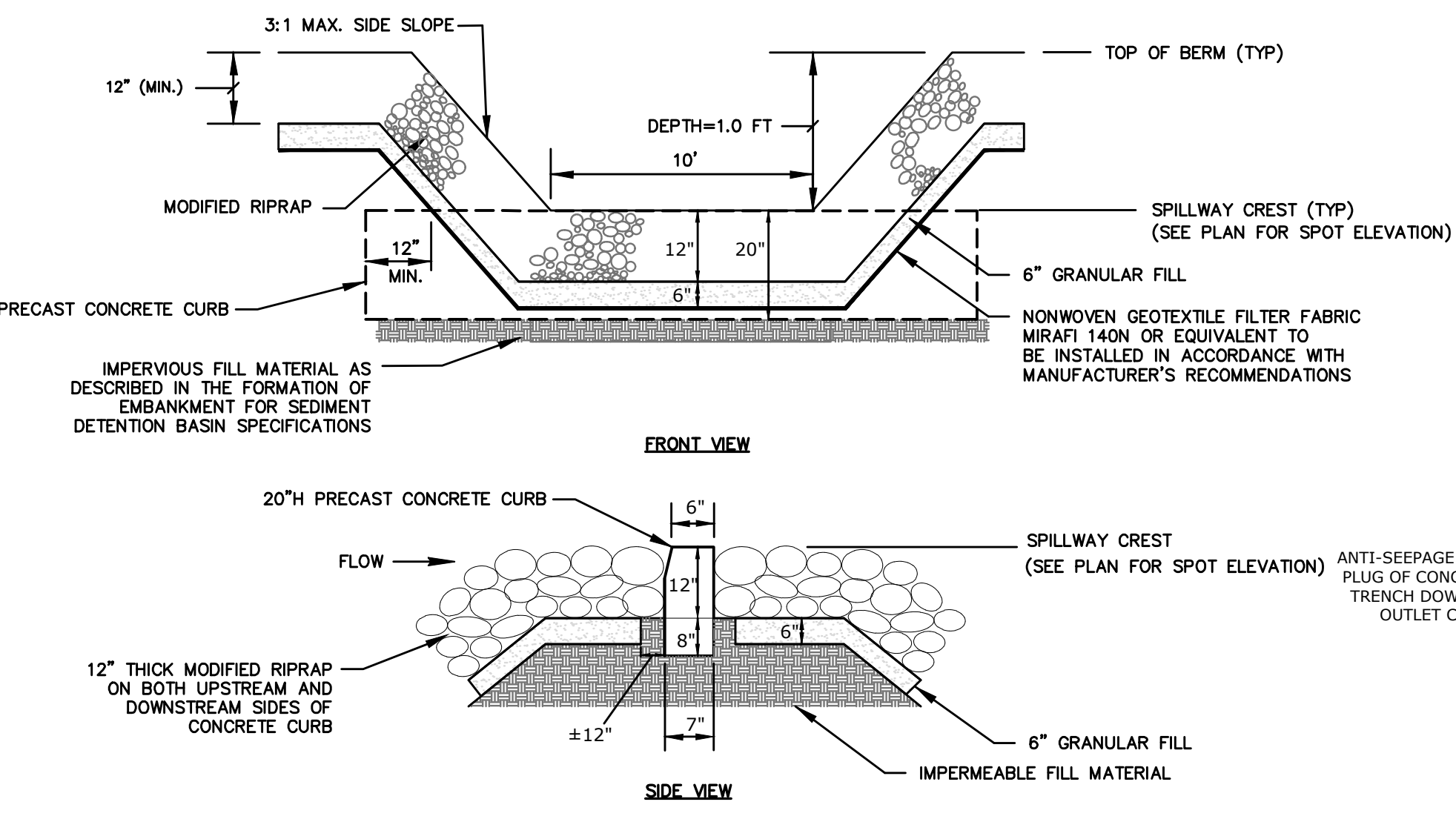
7. CONTROL OF WATER

THE PROJECT SITE IS SUBJECT TO HIGH WATER TABLE. THE CONTRACTOR SHALL USE TEMPORARY PIPES OR PUMPS TO ASSURE PLACEMENT OF SELECT FILL IN DRY CONDITIONS.

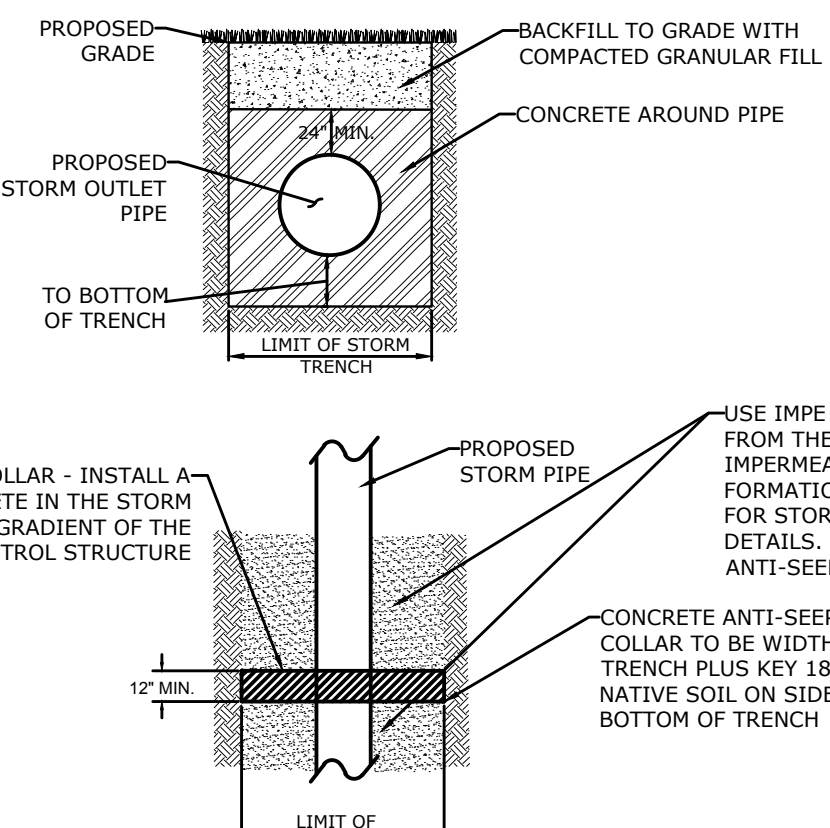


WHERE LEDGE IS ENCOUNTERED, OVEREXCAVATE BY 2 FEET AND REPLACE WITH 18" OF SOIL AND 6" OF TOPSOIL. TOPSOIL IN THE BOTTOM OF THE BASIN IS TO BE 6" DEEP AND 6% ORGANIC CONTENT MINIMUM.

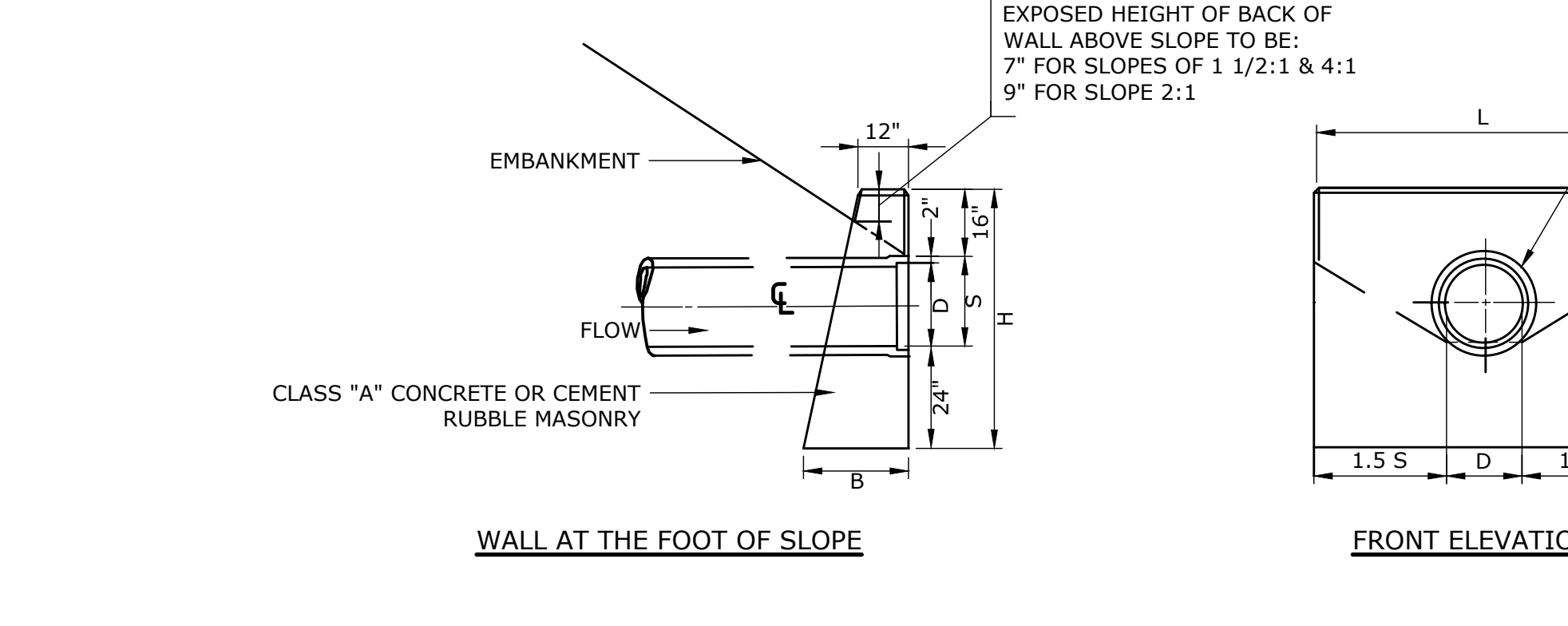
TYPICAL DETENTION BASIN
NOT TO SCALE



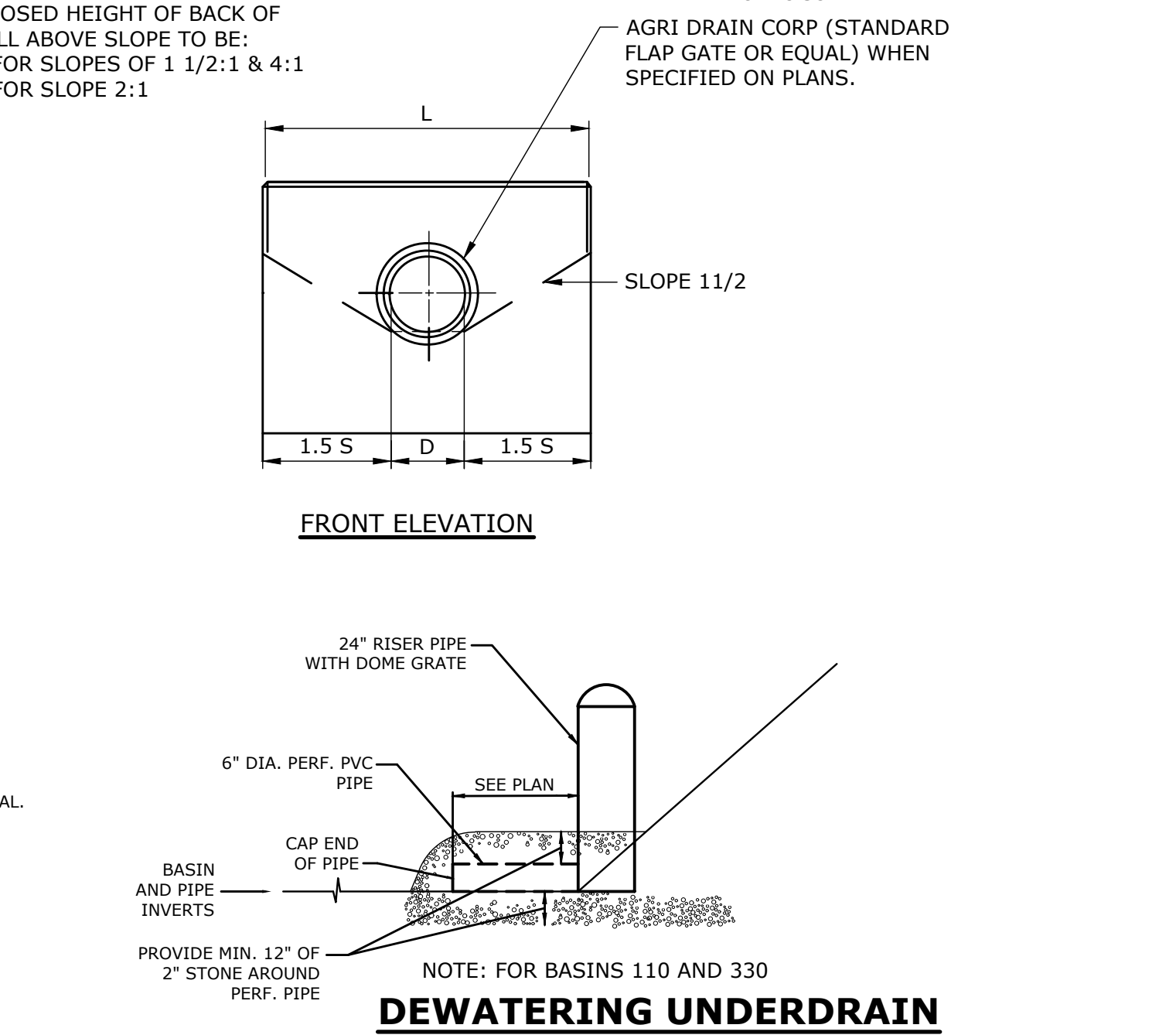
EMERGENCY RIPRAP SPILLWAY
NOT TO SCALE



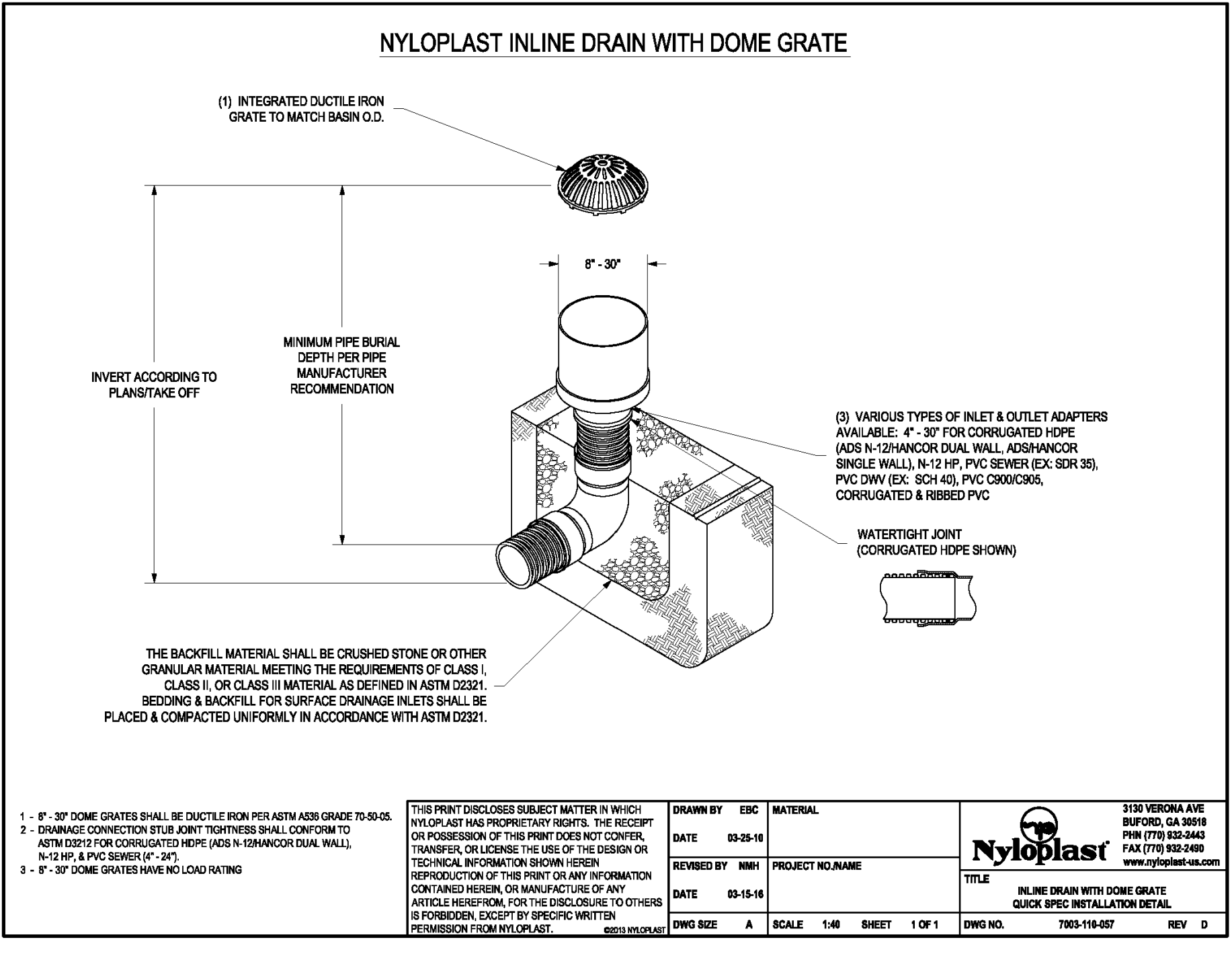
ANTI SEEPAGE COLLAR
NOT TO SCALE



CONCRETE HEADWALL
NOT TO SCALE



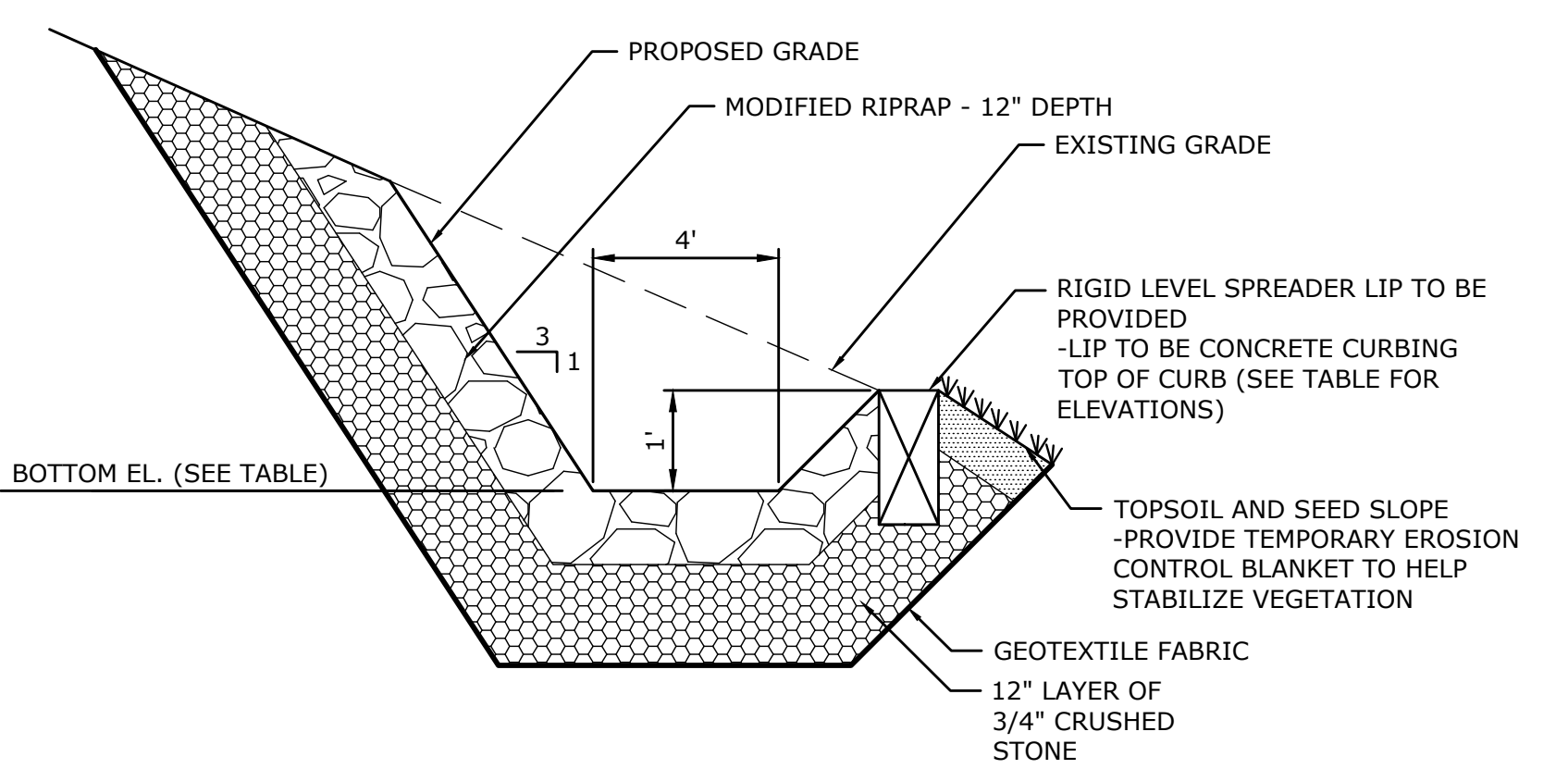
DEWATERING UNDERDRAIN
NOT TO SCALE



NO.	DESCRIPTION	DATE	BY	REVISION
1	8" - 30" DOME GRATES SHALL BE DUCTILE IRON PER ASTM A563 GRADE 15.04.5.			
2	DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D2221 FOR CORRUGATED HOPE (ADS N-12/HANCOR DUAL WALL ADS/HANCOR SINGLE WALL), N-12 HP, & PVC SEWER (EX. SDR 35), PVC (DW. EX. SDR 41), PVC CORRUGAL, CORRUGATED & RIBBED PVC.			
3	8" - 30" DOME GRATES HAVE NO LOAD RATING.			

INLINE DRAIN WITH DOME GRATE FOR STORMWATER BASINS
NOT TO SCALE

DET 110	DET 310	DET 120	DET 410
TOP OF BERM ELEVATION	1142.0	TOP OF BERM ELEVATION	1138.0
OVERFLOW ELEVATION	1140.5	OVERFLOW ELEVATION	1136.4
100-YEAR WATER SURFACE ELEV.	1141.0	100-YEAR WATER SURFACE ELEV.	1137.0
LOW FLOW ORIFICE DIAMETER	6.0"	LOW FLOW ORIFICE DIAMETER	6.0"
LOW FLOW ORIFICE INVERT	1137.0	LOW FLOW ORIFICE INVERT	1134.4
OUTLET PIPE DIAMETER	15"	OUTLET PIPE DIAMETER	15"
OUTLET PIPE INVERT	1136.0	OUTLET PIPE INVERT	1134.0
BASIN BOTTOM ELEVATION	1136.0	BASIN BOTTOM ELEVATION	1134.0



LEVEL SPREADER ID	BOTTOM EL. (FT)	TOP OF CURB EL. (FT)
110	1135.0	1136.0
120	1133.0	1134.0
310	1149.0	1150.0
410	1125.0	1126.0

LEVEL SPREADER
NOT TO SCALE

DETENTION BASIN OUTLET CONTROL STRUCTURES
SCALE: 1"=2'



BY	DATE	DESCRIPTION

SITE DETAILS
LITCHFIELDS HILLS CT
KOA CAMPGROUND
232 KLUG HILL ROAD
TORRINGTON, CONNECTICUT

DESIGNED	MLA	RJM
DRAWN	CHECKED	
NOT TO SCALE		
NOVEMBER 9, 2022		
DATE		
20174.00002		
PROJECT NO.		
30 OF 30		
SHEET NO.		
SD-11		
SHEET NAME		