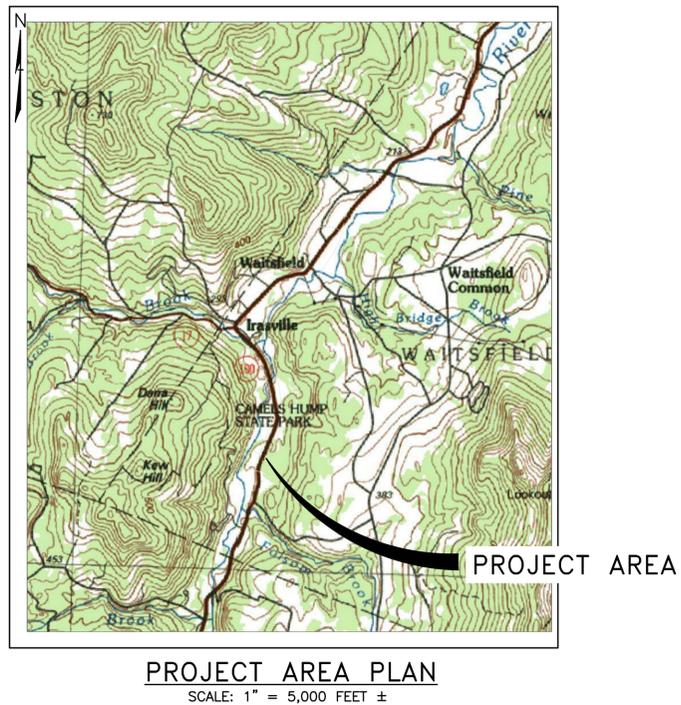
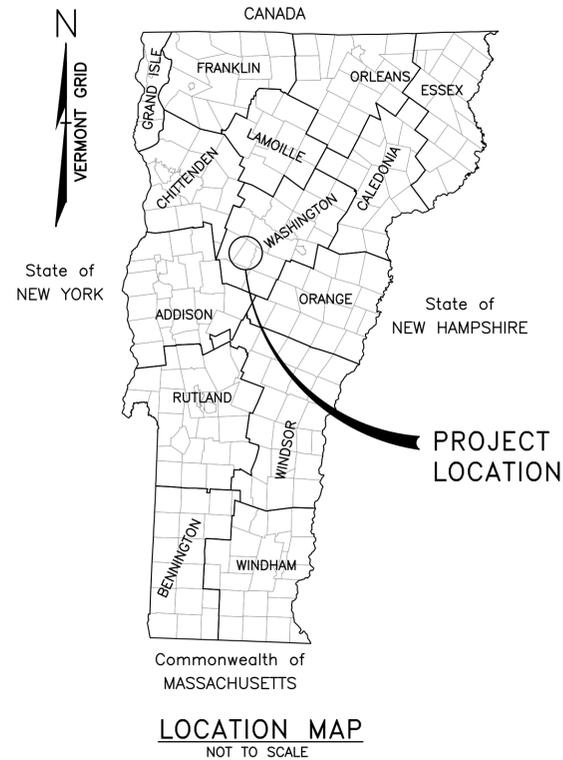


TOWN OF WAITSFIELD WAITSFIELD, VERMONT

COMMUNITY WASTEWATER SYSTEM



engineering
planning
management
development

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REVISIONS	REVISION DESCRIPTION	BY	DATE	NUMBER

CLIENT NAME
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WASTEWATER
SYSTEM
PROJECT ADDRESS
4144 MAIN STREET
WAITSFIELD, VERMONT 05673

SHEET TITLE

TITLE SHEET

D&K PROJECT # 227947	PROJ. ENG. JBA
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G1

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REVISIONS	BY		DATE		NUMBER	
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REVISION DESCRIPTION						

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COMMUNITY
WASTEWATER
SYSTEM**
**PROJECT ADDRESS
4144 MAIN STREET
WAITSFIELD, VERMONT 05673**

**SHEET TITLE
LIST OF SHEETS -
LEDGEND**

D&K PROJECT # 227947	PROJ. ENG. JBA
DRAWN BY EBS	CHECKED BY NJS

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MAY 17, 2025

SHEET NUMBER

G2

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WATER AND TRENCH DETAILS	C59	62 OF 64
JACK AND BORE AND DIRECTIONAL DRILL DETAILS	C60	63 OF 64
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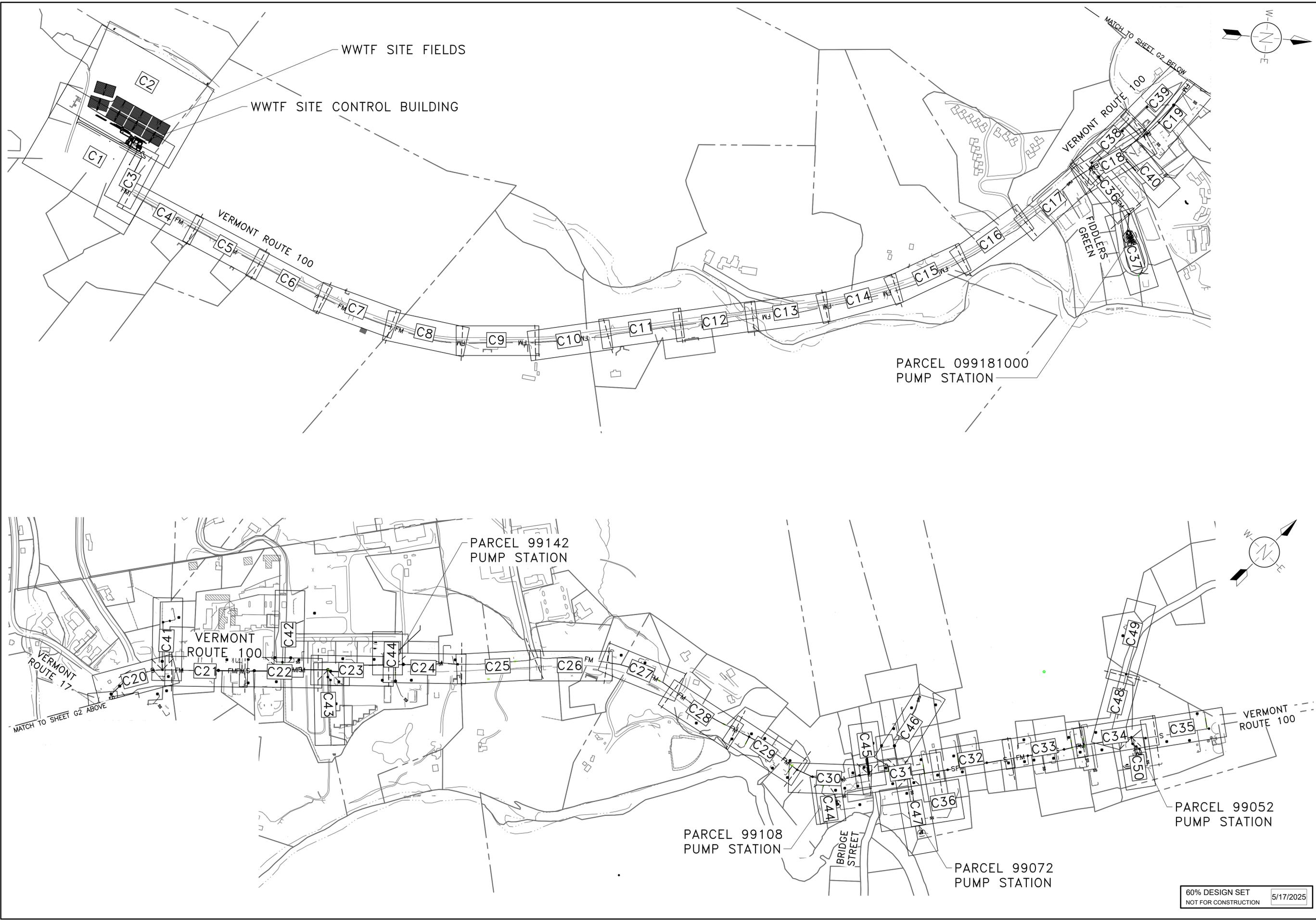
LEGEND

EXISTING

	MAJOR CONTOUR
	MINOR CONTOUR
	EDGE OF PAVEMENT
	EDGE OF GRAVEL
	TREE LINE
	UNDER GROUND ELECTRICAL
	UNDER GROUND CABLE
	WATER MAIN
	SEWER
	STORM DRAIN
	FENCE
	STONE WALL
	WETLAND
	BUILDING
	LEDGE OUTCROP
	BENCH MARK
	CATCH BASIN
	TELEPHONE MANHOLE
	SEWER MANHOLE
	MANHOLE
	GAS MANHOLE
	ELECTRICAL MANHOLE
	WELL
	UTILITY POLE
	CONTROL POINT
	LIGHT POLE
	SIGN (2 POST)
	SIGN (1 POST)
	GAS VALVE
	HYDRANT
	IRON PIPE FOUND
	WATER SHUT OFF
	GAS SHUT OFF
	TREE
	GUY WIRE
	STONE BOUND
	MAILBOX
	BORING
	TEST PIT
	MONITORING WELL
	HAZARDOUS WASTE SITE

NEW

	SEWER MAIN
	SEWER SERVICE
	FORCE MAIN
	FORCE MAIN SERVICE
	WATER SERVICE
	SEWER MANHOLE
	VALVE VAULT
	AIR RELEASE
	FORCE MAIN VALVE
	ONE WAY CLEANOUT
	TWO WAY CLEANOUT
	SEWER SERVICE
	WATER SERVICE
	DIRECTION DRILL
	UNDERGROUND SIGNAL
	UNDERGROUND ELECTRICAL AND SIGNAL
	SILT FENCE
	STABILIZED CONSTRUCTION ENTRANCE
	PROJECT DEMARCATION FENCE
	PERMANENT EASEMENT
	TEMPORARY EASEMENT



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REVISIONS	REVISION DESCRIPTION	
	NUMBER	DATE

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SHEET TITLE
 INDEX OF SHEETS

D&K PROJECT # 227947	PROJ. ENG. JBA
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DATE
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SHEET NUMBER
G3
 SHEET: 3 of 64

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4144 MAIN STREET
WAITSFIELD, VERMONT 05673

SHEET TITLE
**PLAN AND PROFILE
WWTF SITE FIELDS**

D&K PROJECT # 227947
PROJ. ENG. JBA

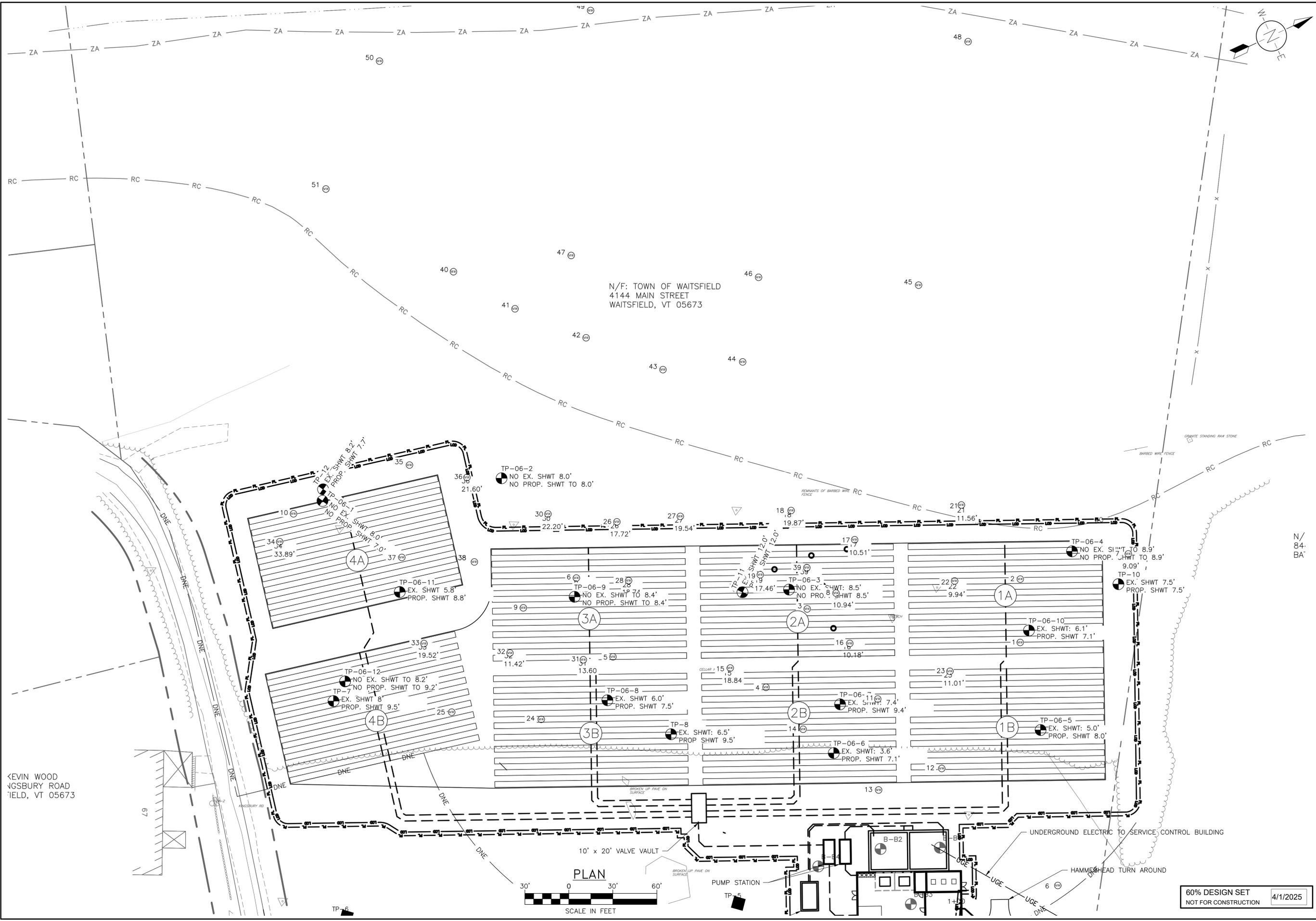
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DATE
APRIL 1, 2025

SHEET NUMBER

C2

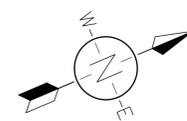
SHEET: 5 of 64



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KEVIN WOOD
103 BURLINGTON ROAD
WAITSFIELD, VT 05673

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REVISIONS	BY	DATE	NUMBER	REVISION DESCRIPTION

CLIENT NAME
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WAITSFIELD
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WASTEWATER
SYSTEM
PROJECT ADDRESS
4144 MAIN STREET
WAITSFIELD, VERMONT 05673

SHEET TITLE
PLAN AND PROFILE
STA. 4+50 - 9+50

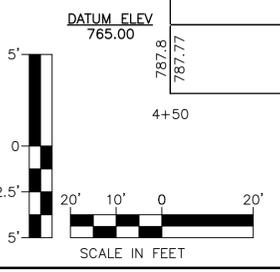
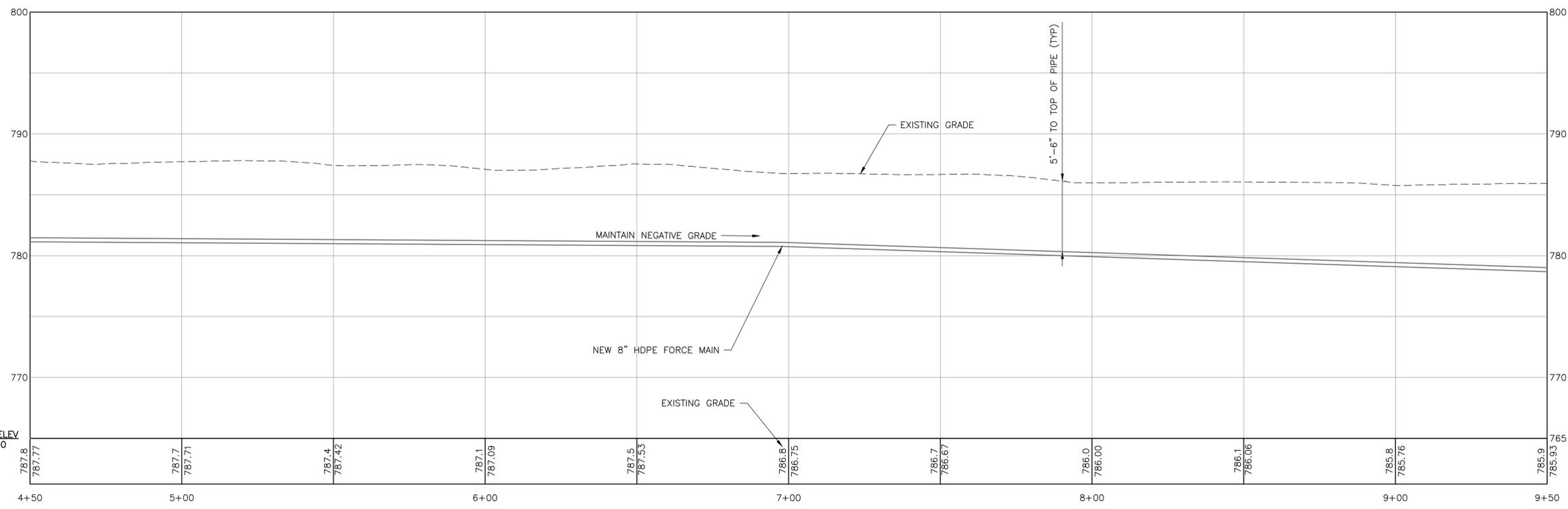
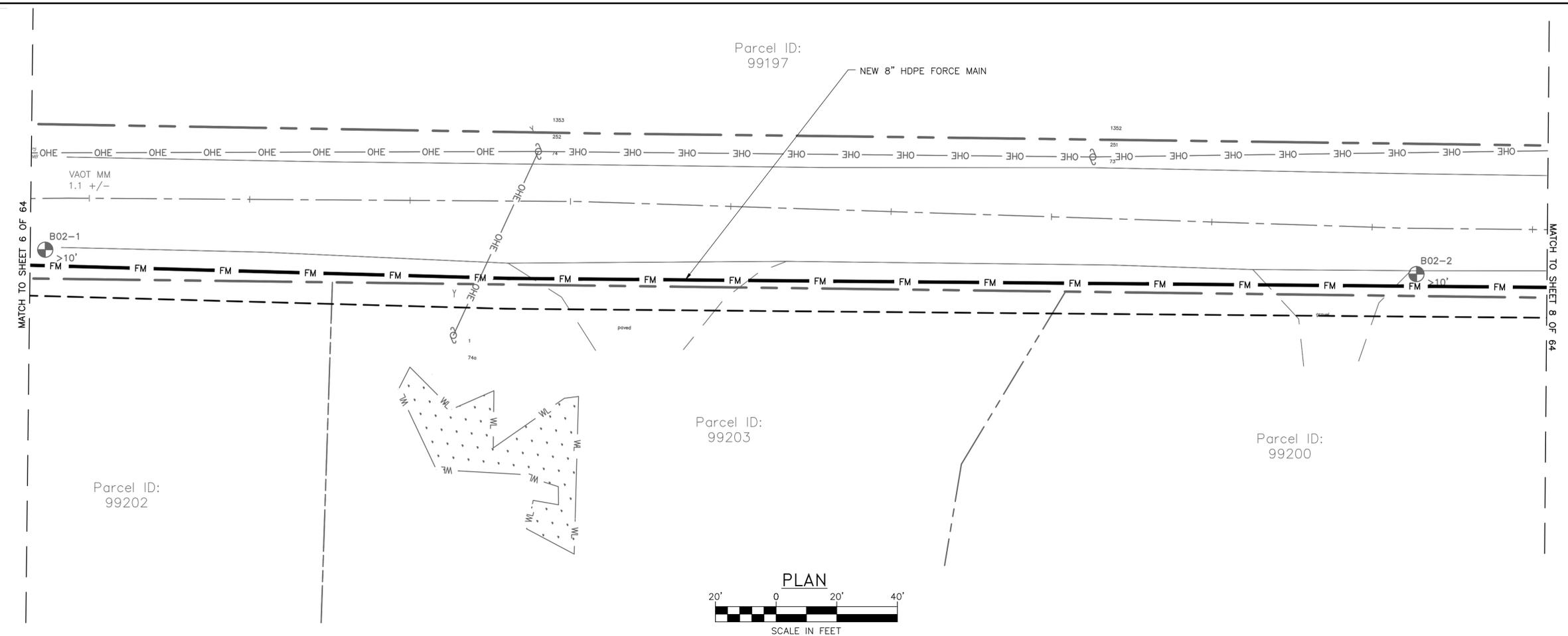
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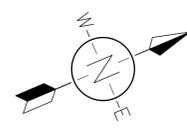
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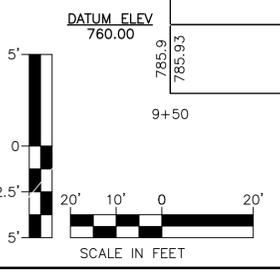
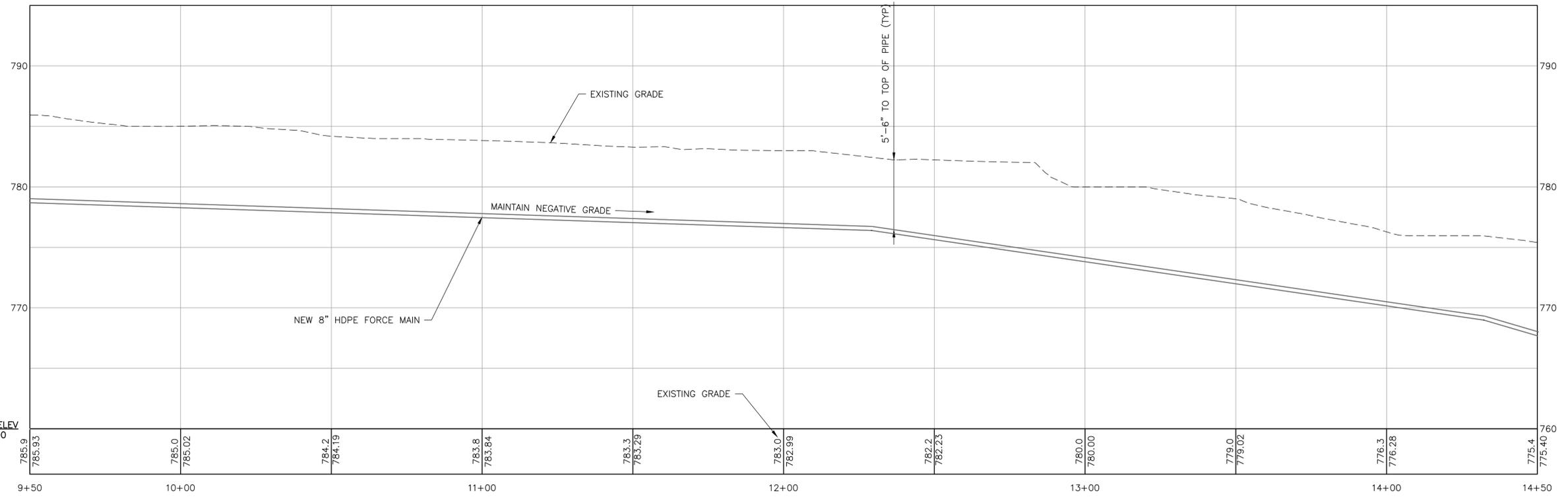
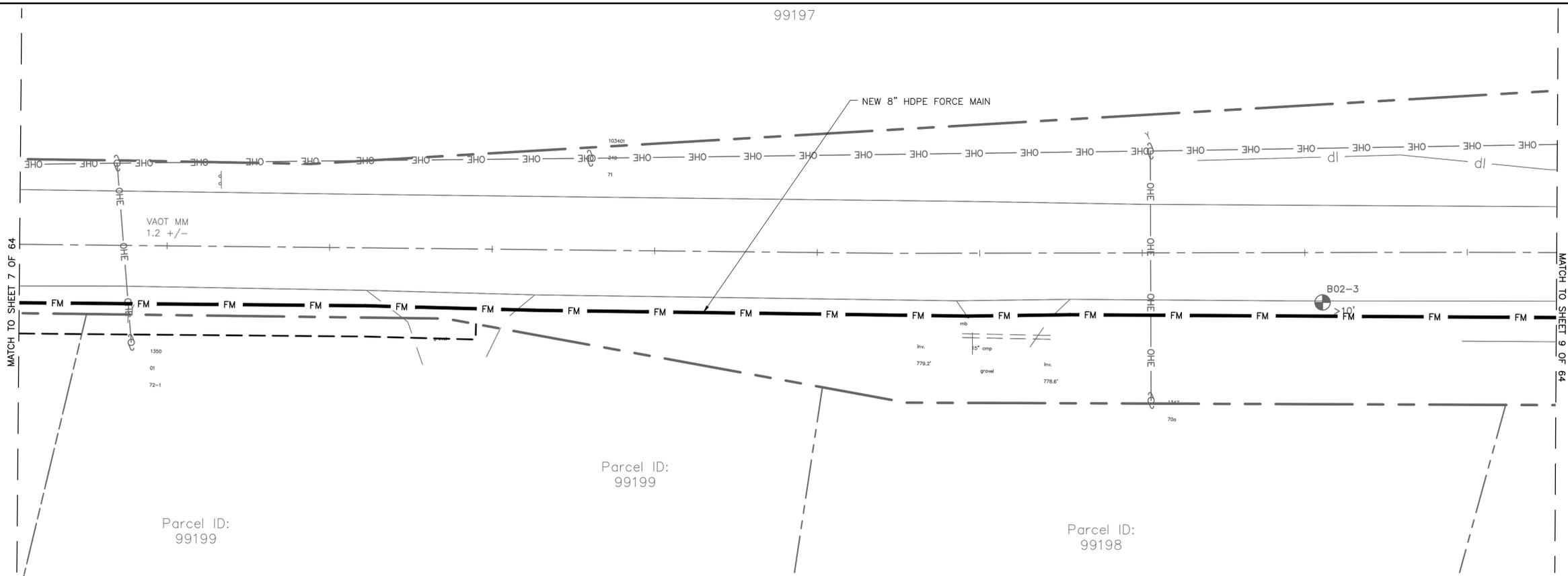
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REVISIONS	BY	DATE	REVISION DESCRIPTION

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 SYSTEM
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 4144 MAIN STREET
 WAITSFIELD, VERMONT 05673

SHEET TITLE
 PLAN AND PROFILE
 STA. 9+50 - 14+50

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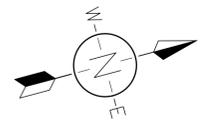
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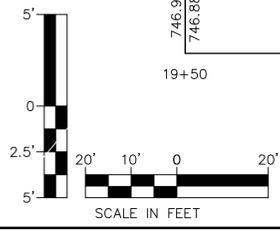
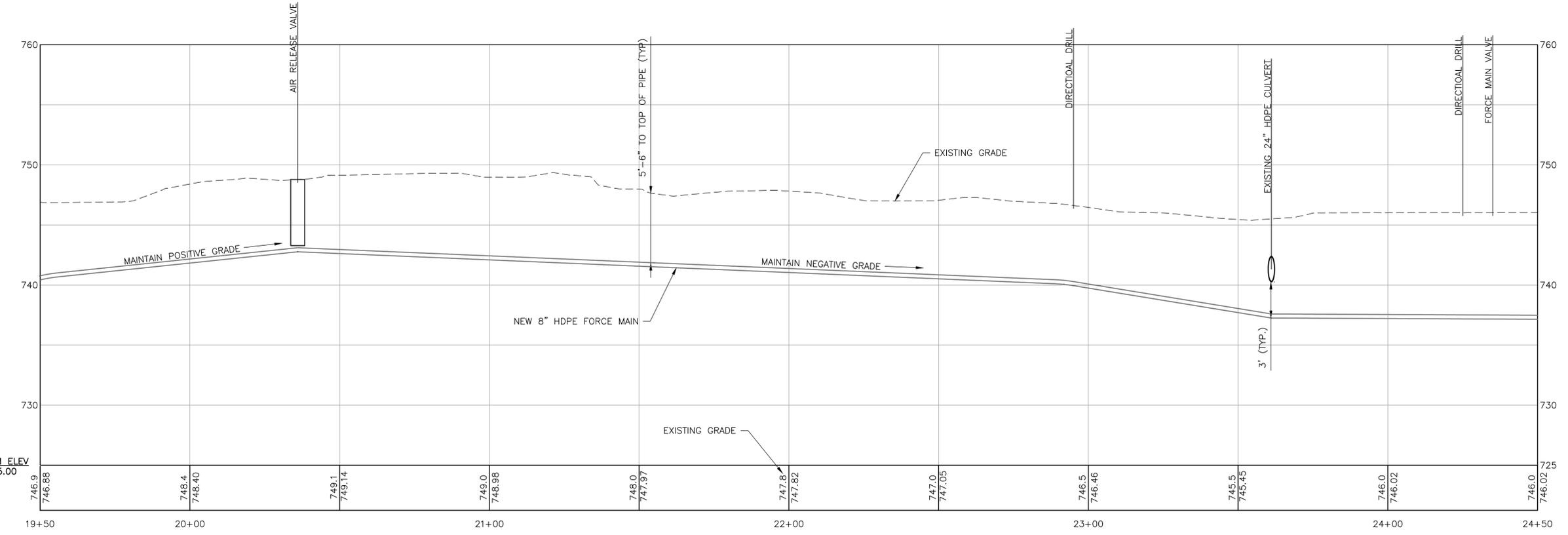
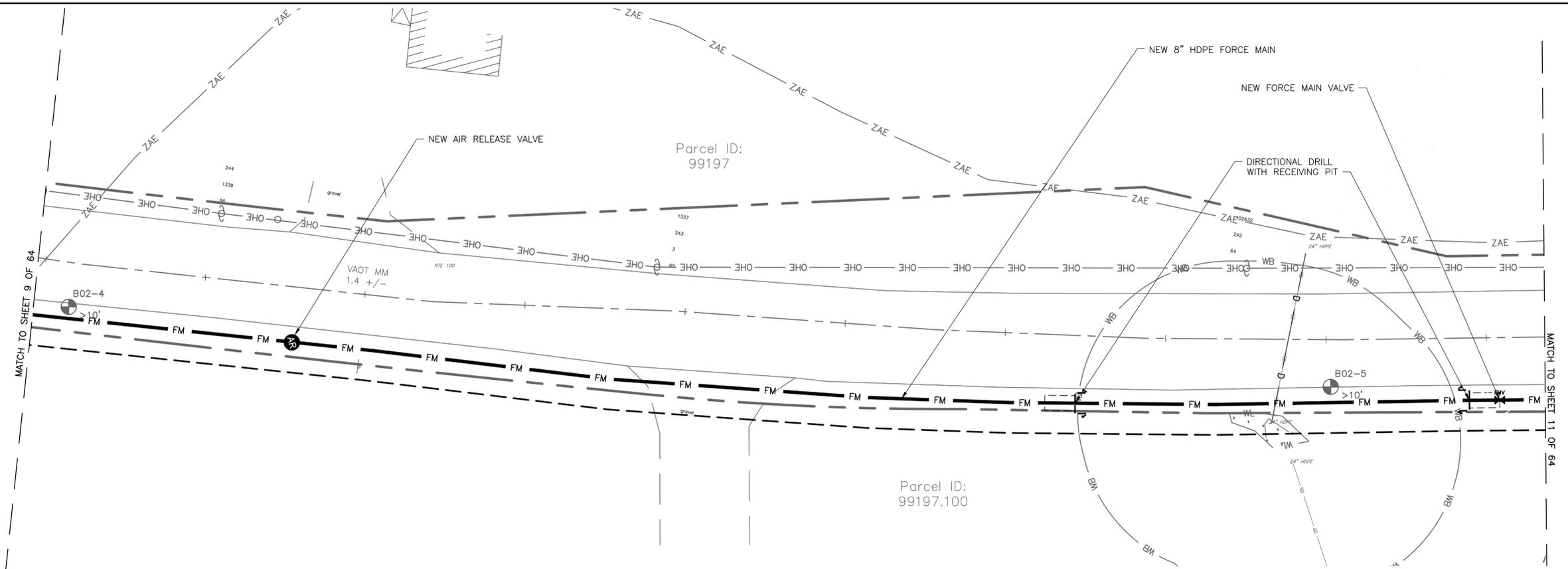
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PROFILE

REVISIONS	BY	DATE	REVISION DESCRIPTION

CLIENT NAME
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 WAITSFIELD

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 WAITSFIELD
 COMMUNITY
 WASTEWATER
 SYSTEM
 PROJECT ADDRESS
 4144 MAIN STREET
 WAITSFIELD, VERMONT 05673

SHEET TITLE
 PLAN AND PROFILE
 STA. 19+50 - 24+50

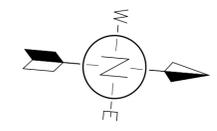
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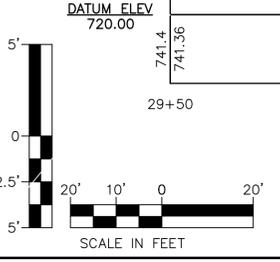
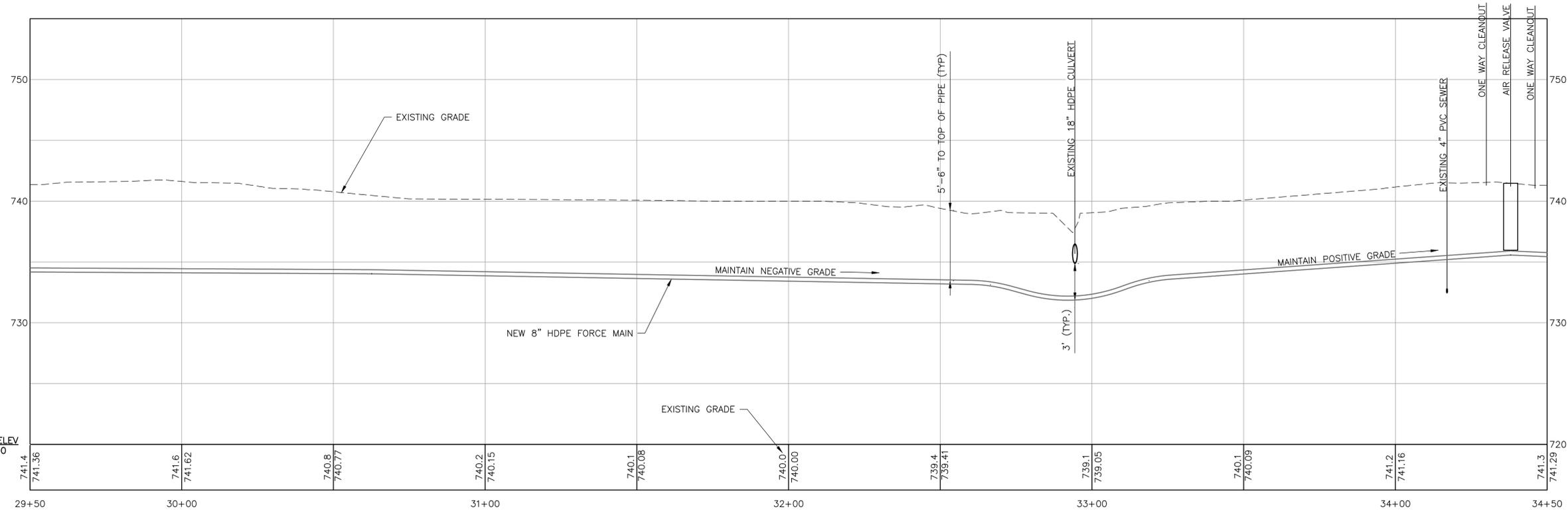
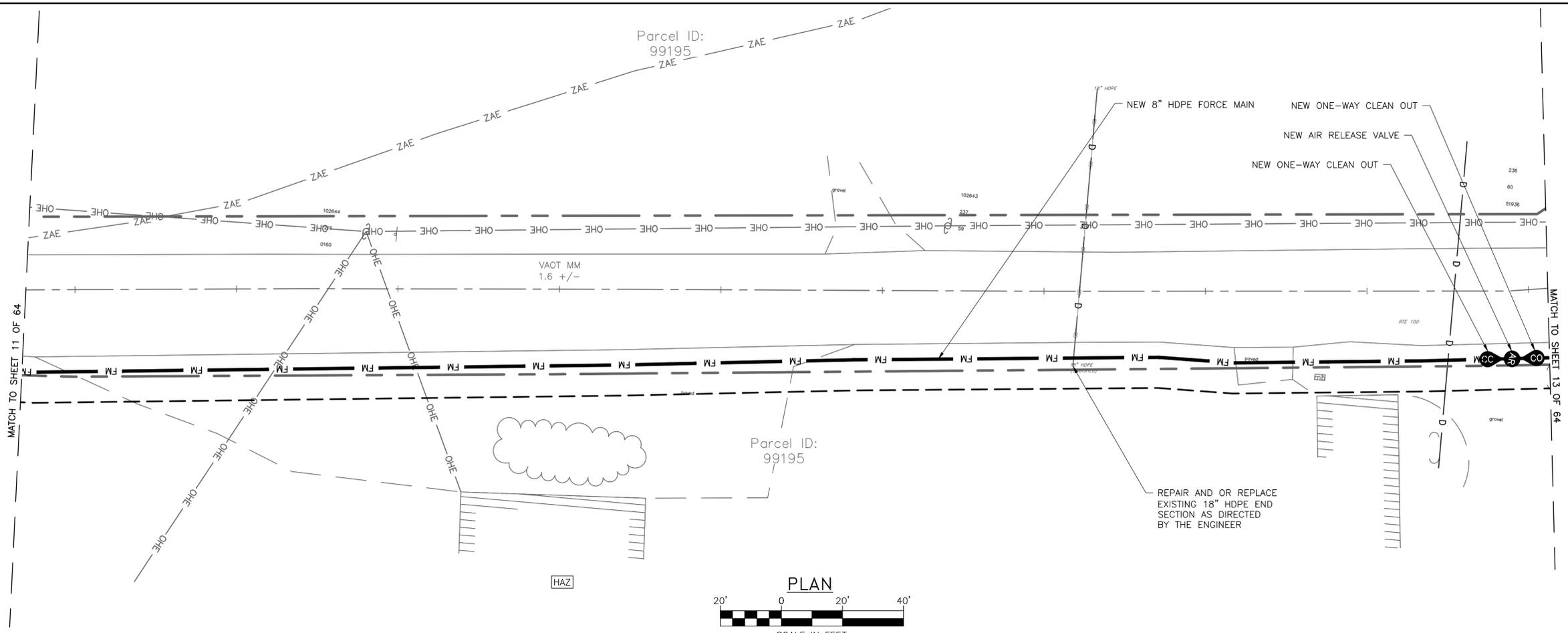
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 4144 MAIN STREET
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SHEET TITLE
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 STA. 29+50 - 34+50

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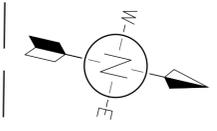
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C9

SHEET: 12 of 64

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REVISIONS	REVISION DESCRIPTION	DATE	BY	
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 SYSTEM**
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 4144 MAIN STREET
 WAITSFIELD, VERMONT 05673

SHEET TITLE
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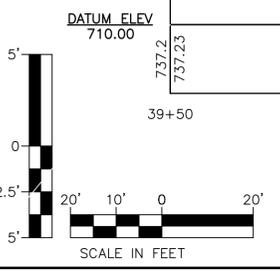
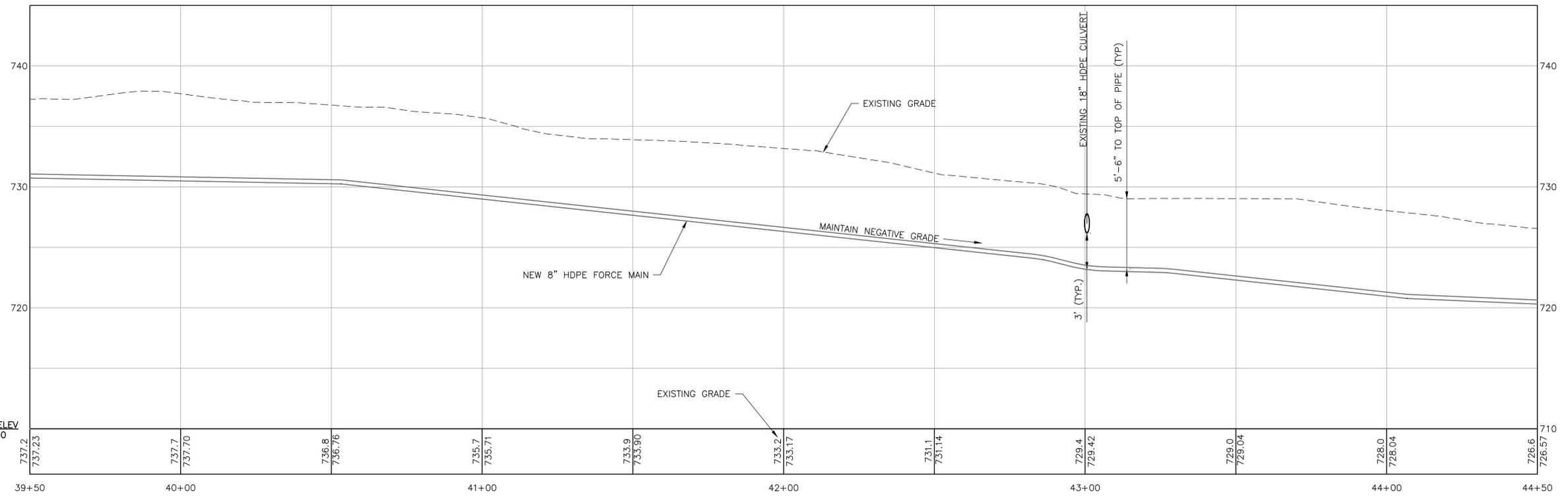
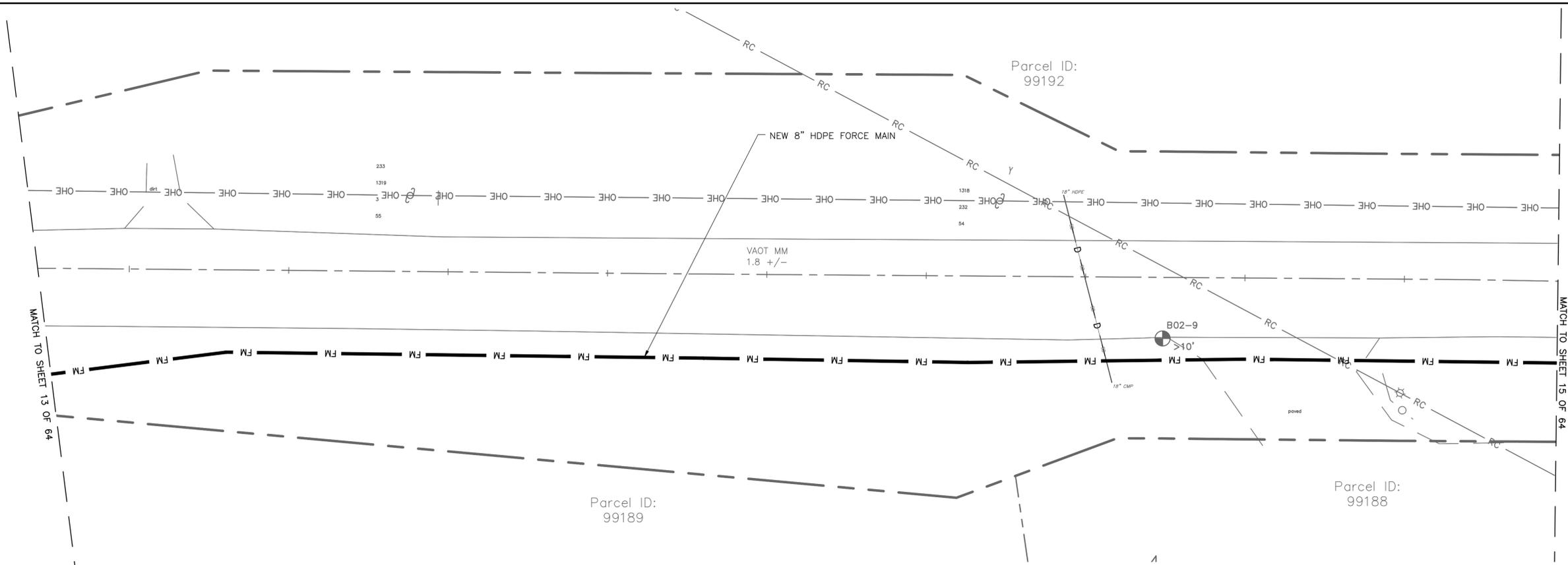
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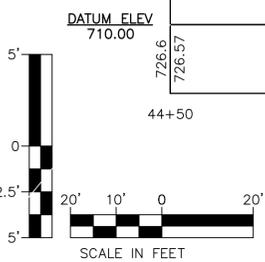
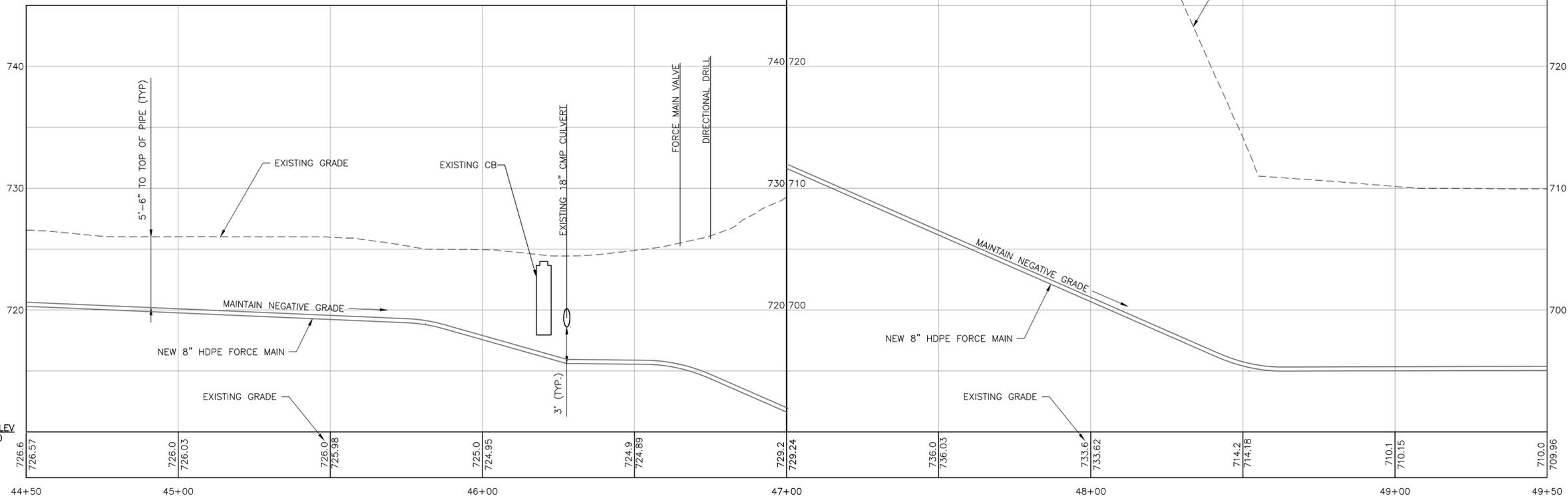
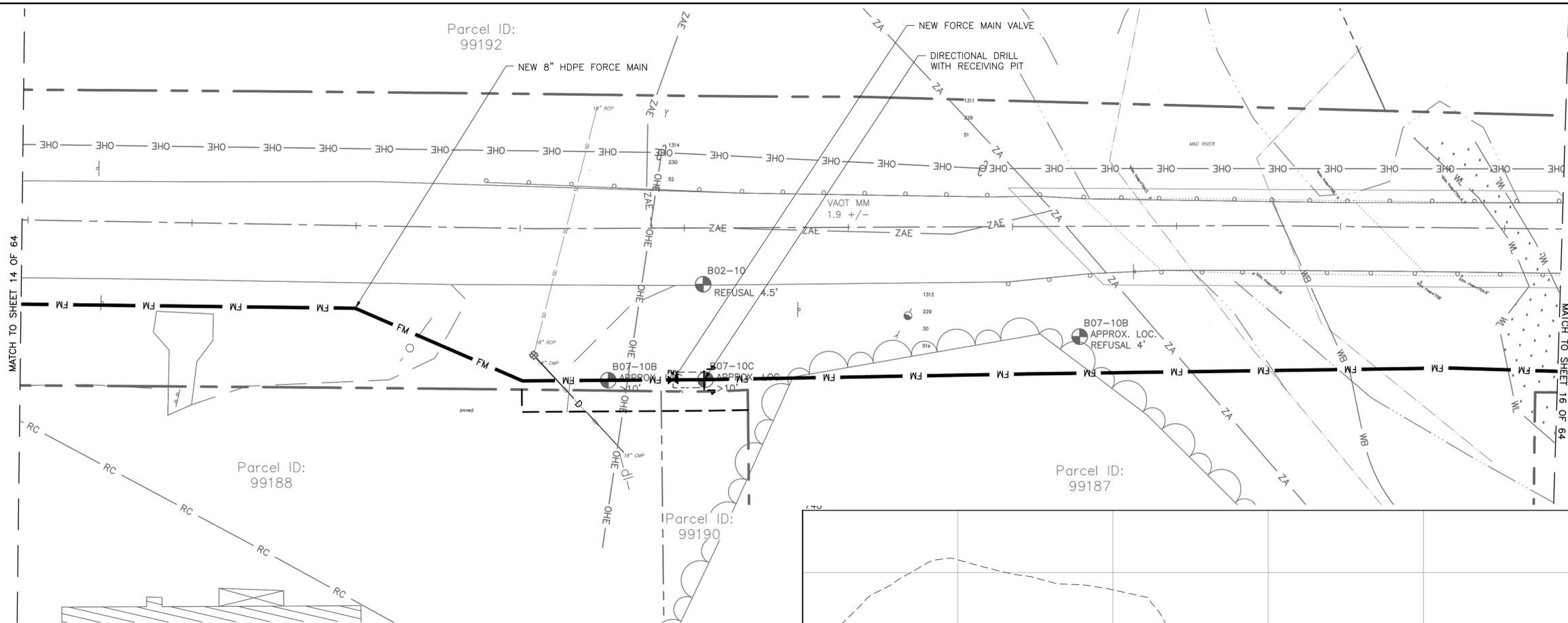
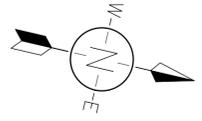


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SYSTEM
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WAITSFIELD, VERMONT 05673

SHEET TITLE
PLAN AND PROFILE
STA 44+50 - 49+50

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SHEET NUMBER

C12

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REVISIONS	REVISION DESCRIPTION	DATE	NUMBER	BY	
				DATE	NUMBER

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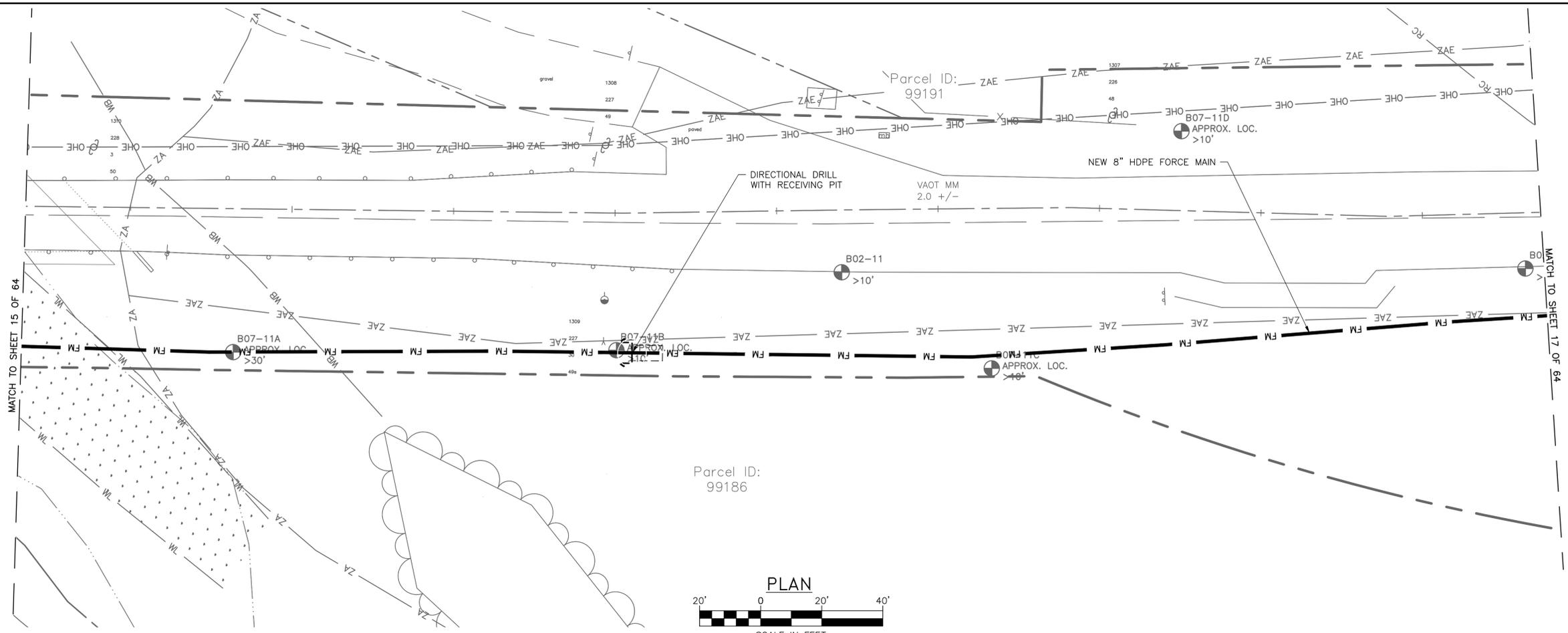
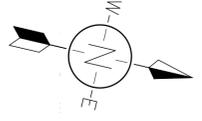
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WAITSFIELD, VERMONT 05673

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PLAN AND PROFILE
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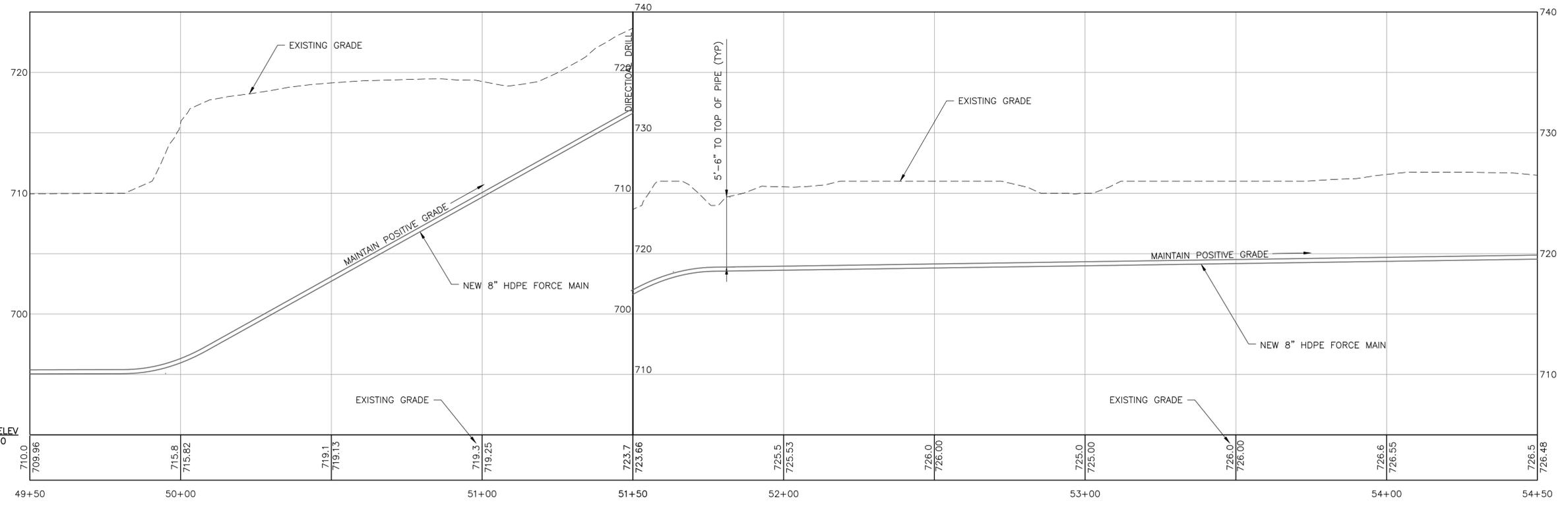
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SHEET NUMBER
C13
SHEET: 16 of 64



PLAN
SCALE IN FEET



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SYSTEM**
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4144 MAIN STREET
WAITSFIELD, VERMONT 05673

SHEET TITLE
**PLAN AND PROFILE
STA 54+50 - 59+50**

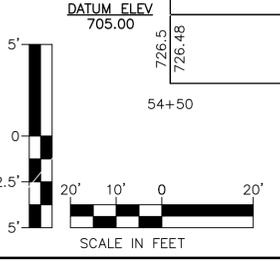
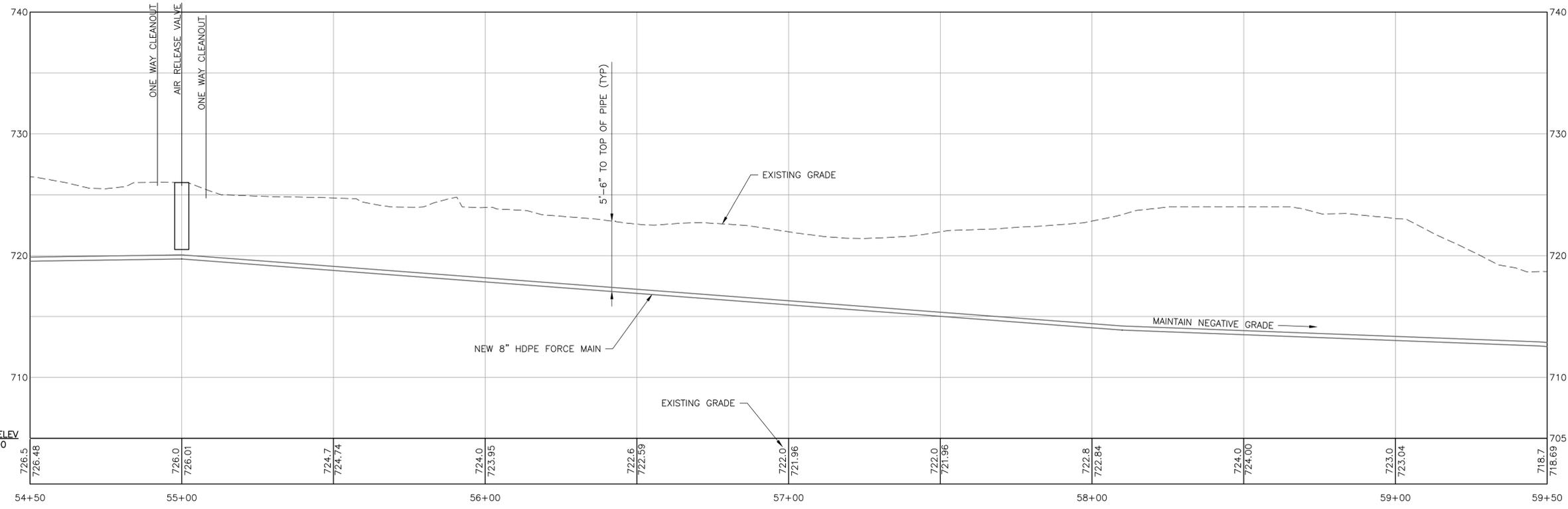
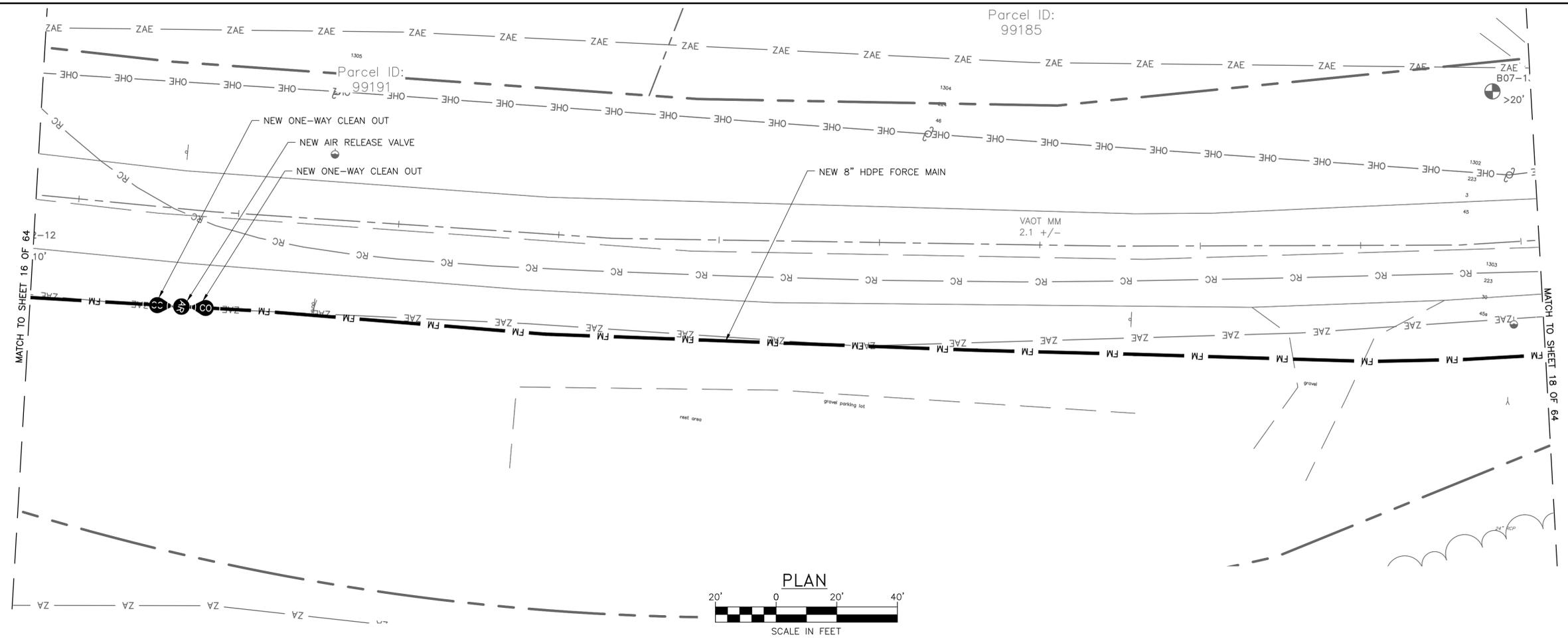
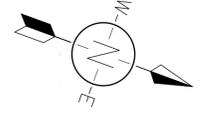
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SHEET NUMBER

C14

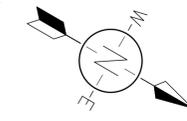
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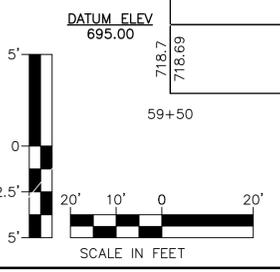
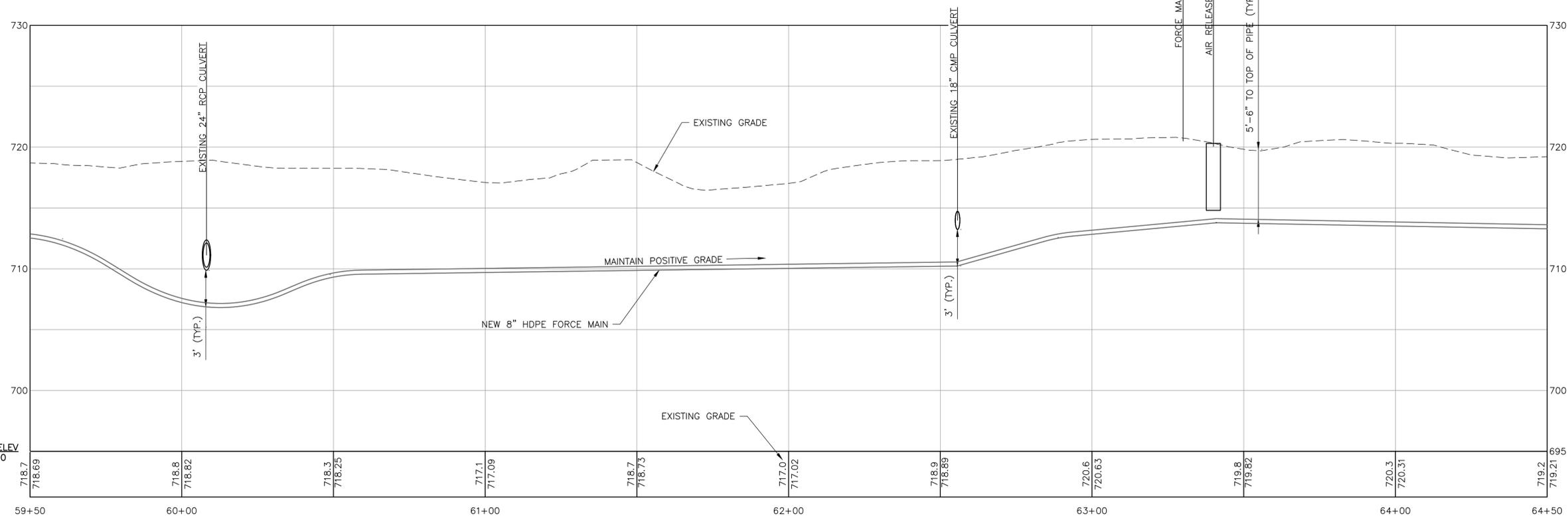
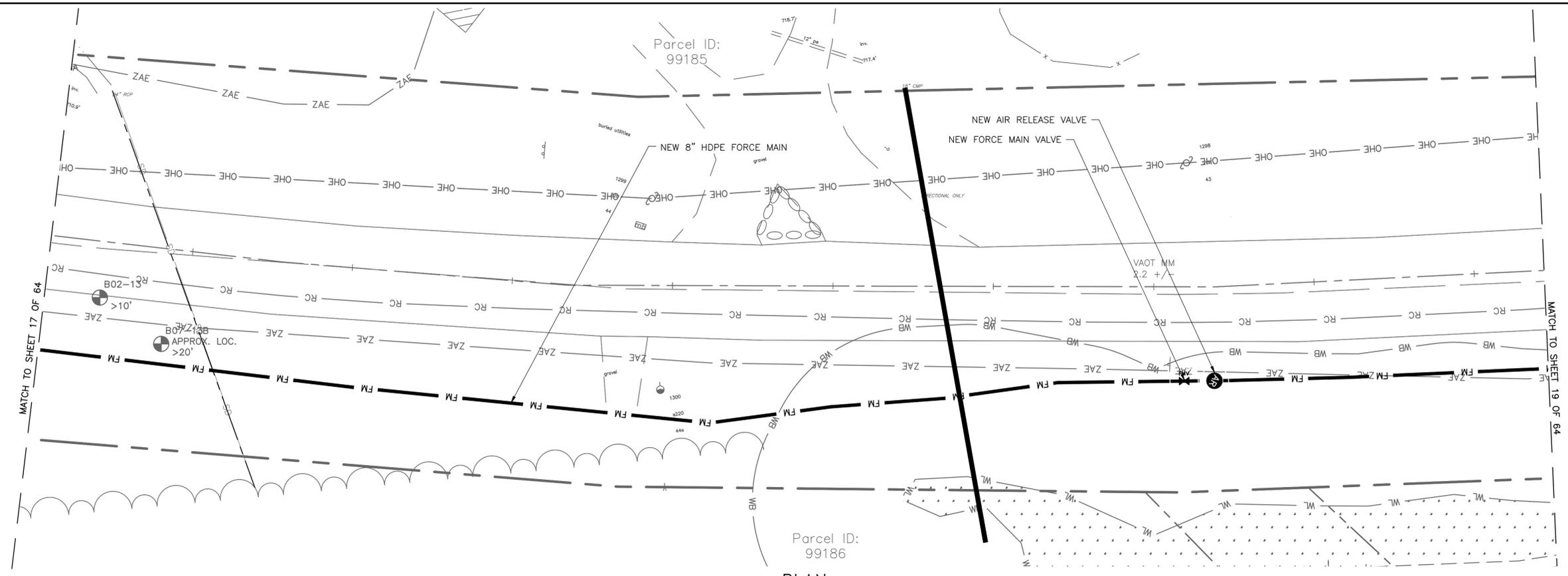
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PROFILE

REVISIONS	BY	
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SYSTEM**
PROJECT ADDRESS
4144 MAIN STREET
WAITSFIELD, VERMONT 05673

SHEET TITLE
**PLAN AND PROFILE
STA 59+50 - 64+50**

D&K PROJECT # 227947	PROJ. ENG. JBA
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SHEET NUMBER

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REVISIONS	BY	
	NUMBER	DATE

CLIENT NAME
**TOWN OF
WAITSFIELD**

PROJECT NAME
**WAITSFIELD
COMMUNITY
WASTEWATER
SYSTEM**
PROJECT ADDRESS
4144 MAIN STREET
WAITSFIELD, VERMONT 05673

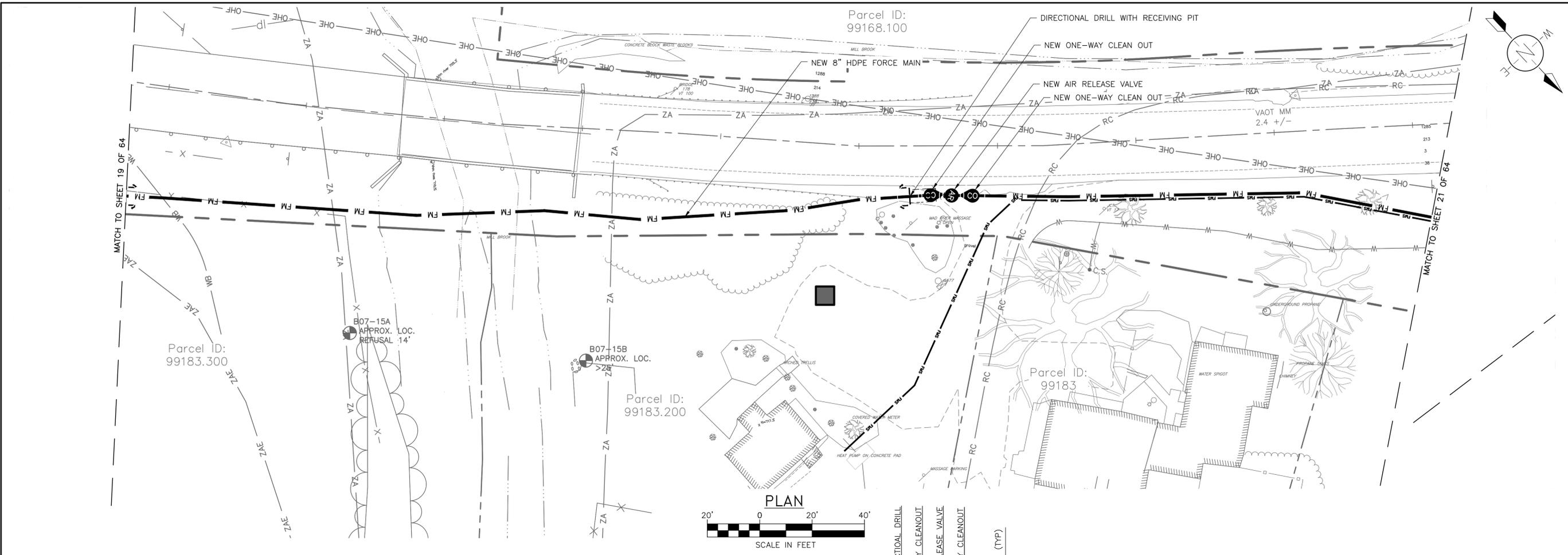
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STA 69+50 - 74+50**

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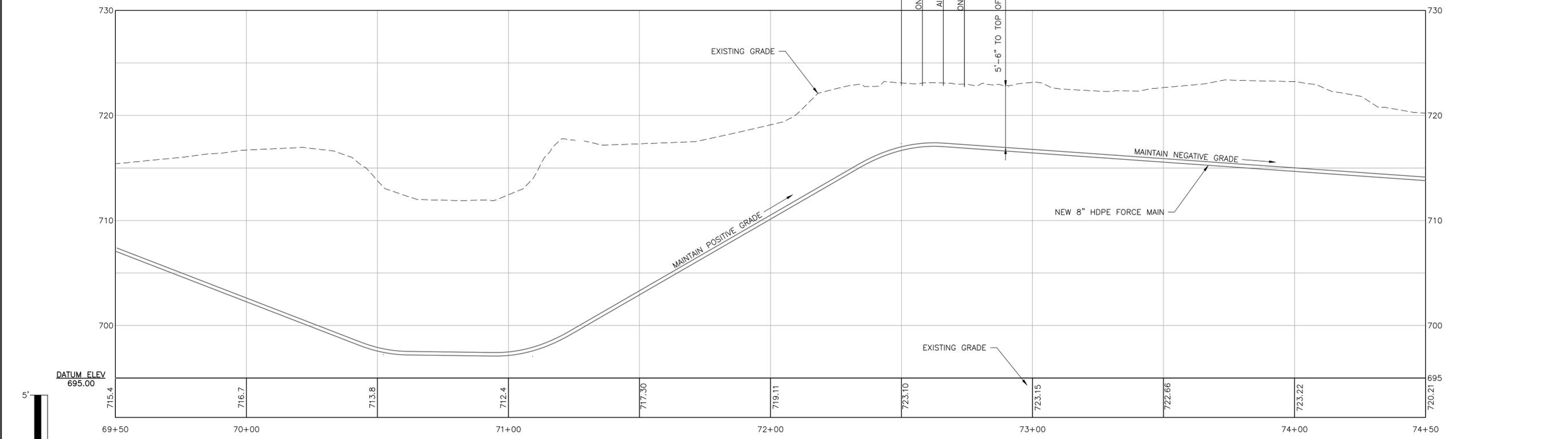
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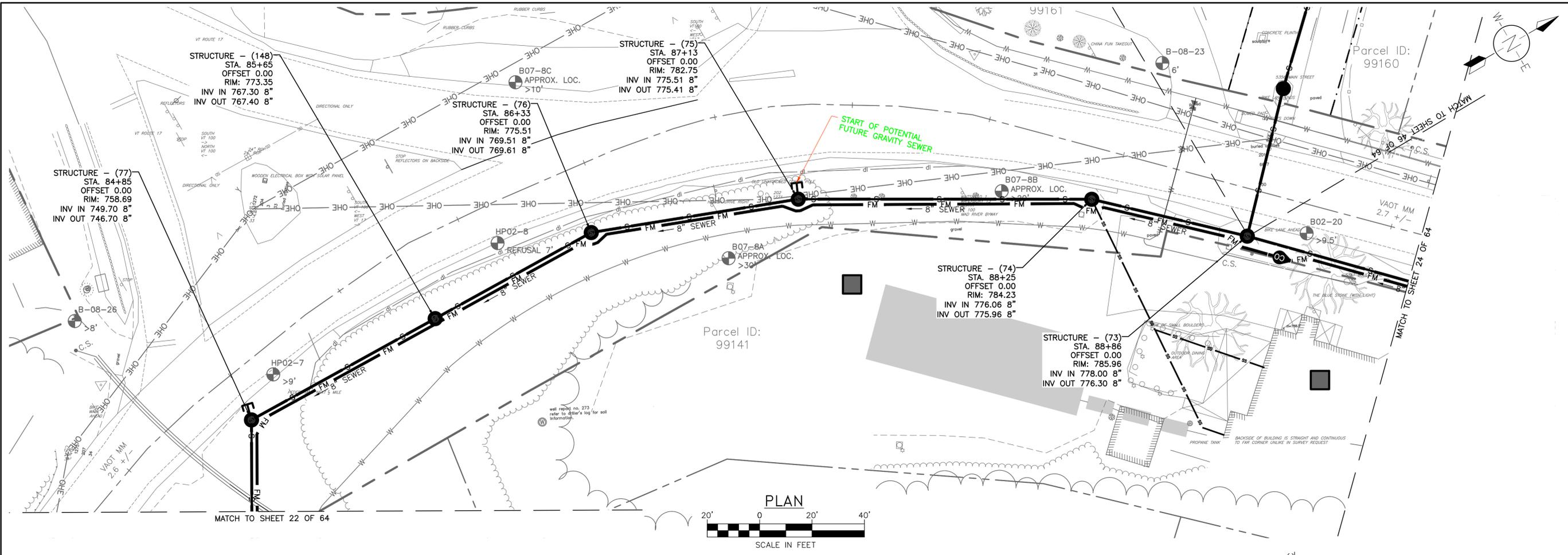


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REVISIONS	BY	
	NUMBER	DATE

CLIENT NAME
**TOWN OF
WAITSFIELD**

PROJECT NAME
**WAITSFIELD
COMMUNITY
WASTEWATER
SYSTEM**
PROJECT ADDRESS
4144 MAIN STREET
WAITSFIELD, VERMONT 05673

SHEET TITLE
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STA 84+50 - 89+50**

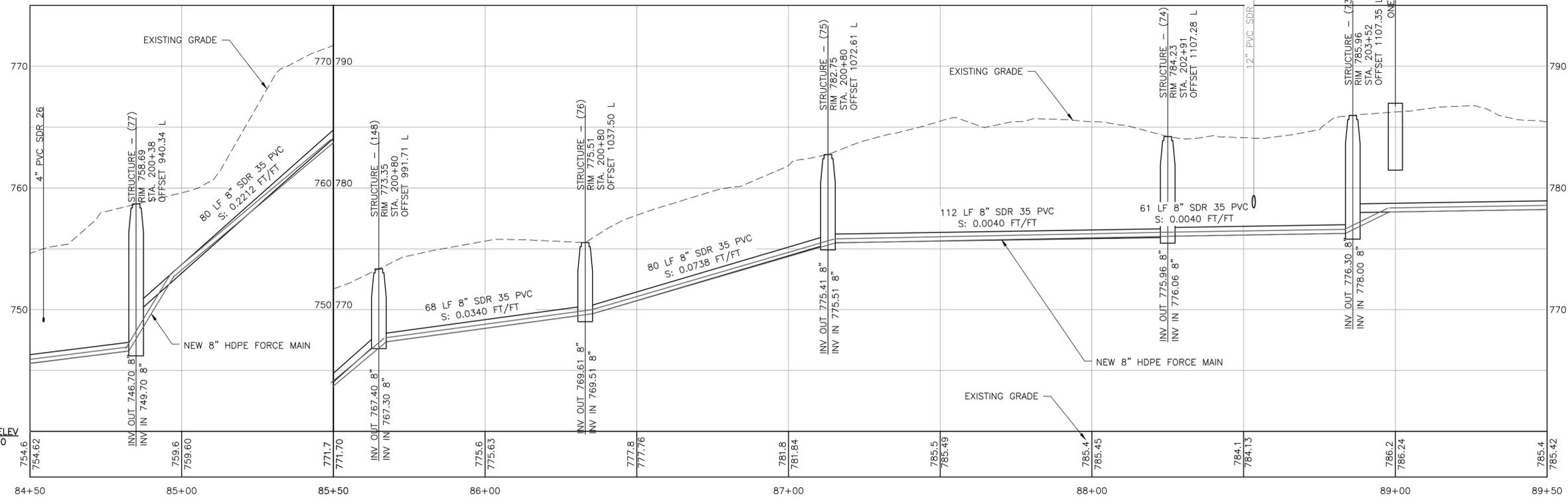
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EBS	NJS

DATE
MAY 17, 2025

SHEET NUMBER

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SHEET: 23 of 64



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REVISIONS	NUMBER	DATE	REVISION DESCRIPTION

CLIENT NAME
**TOWN OF
WAITSFIELD**

PROJECT NAME
**WAITSFIELD
COMMUNITY
WASTEWATER
SYSTEM**
PROJECT ADDRESS
4144 MAIN STREET
WAITSFIELD, VERMONT 05673

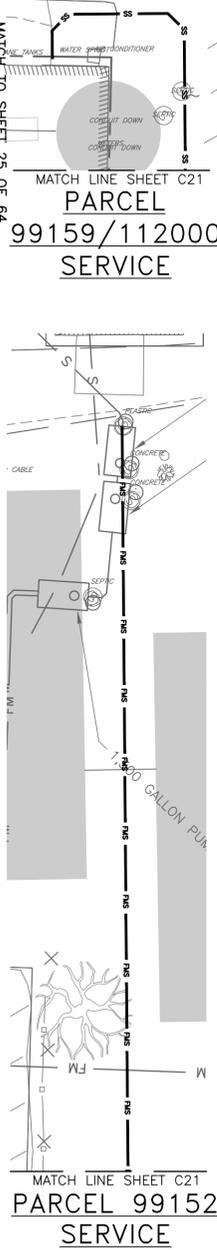
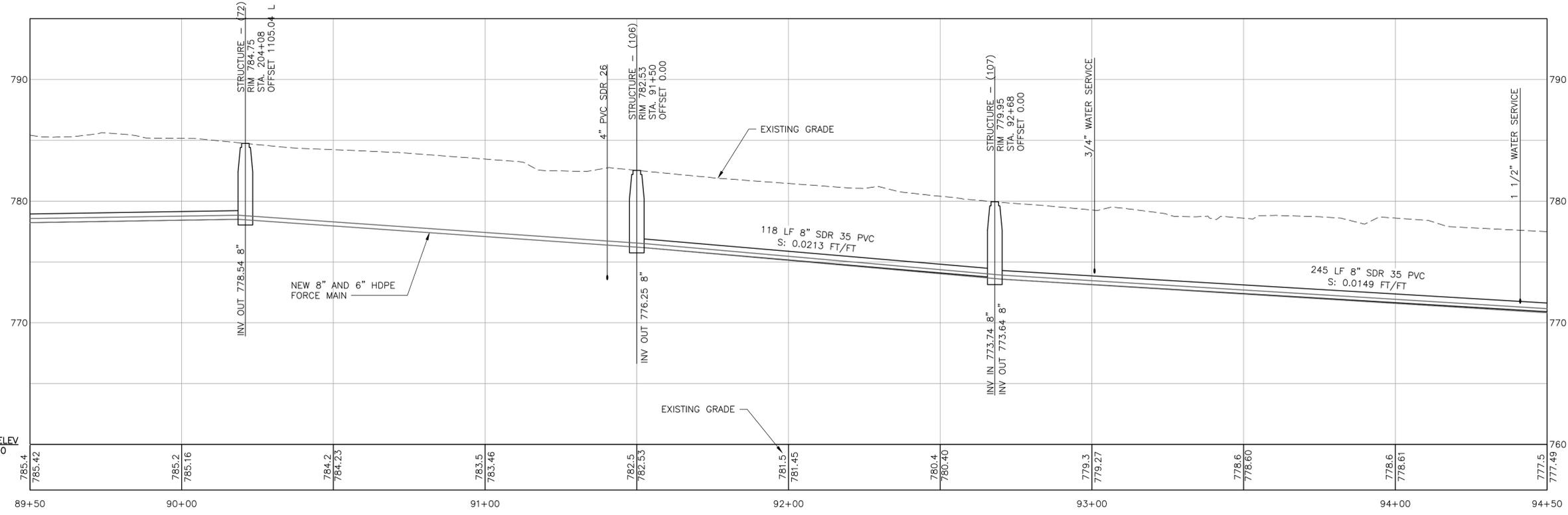
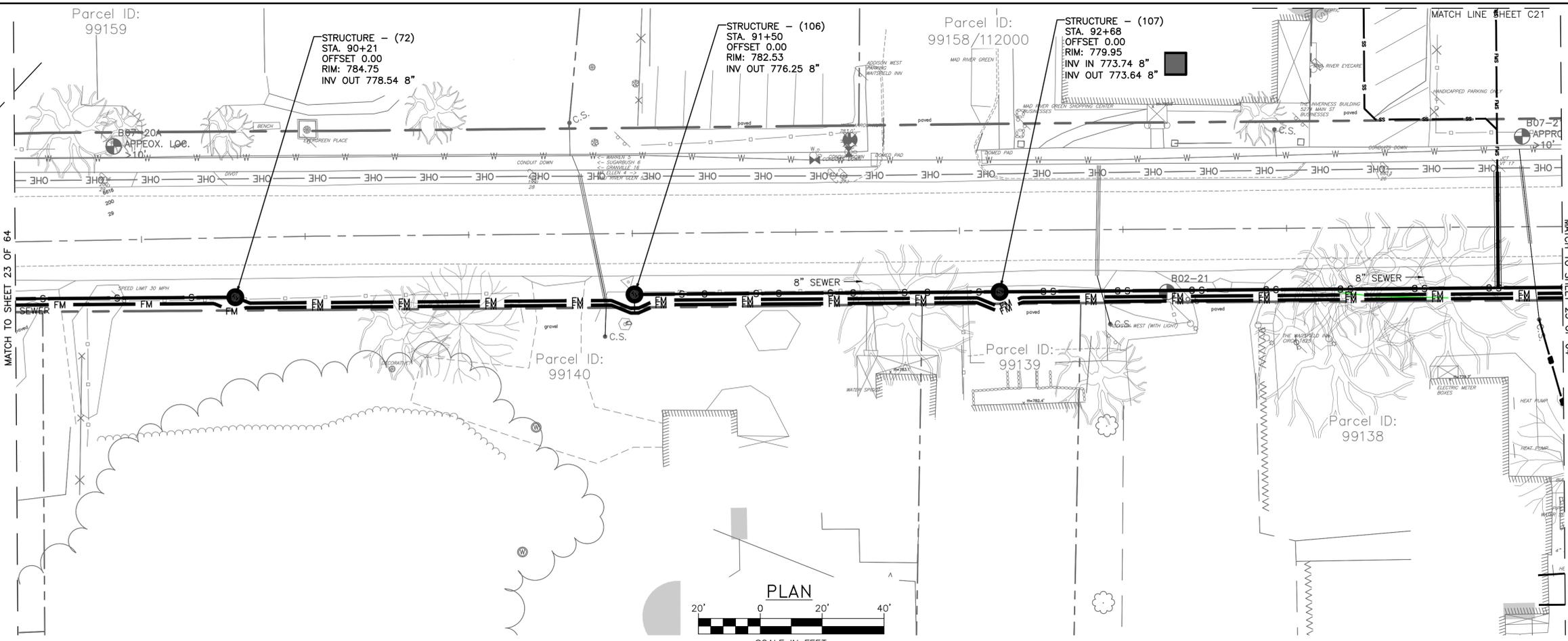
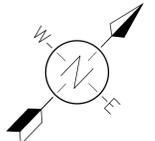
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EBS	NJS

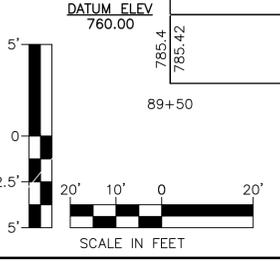
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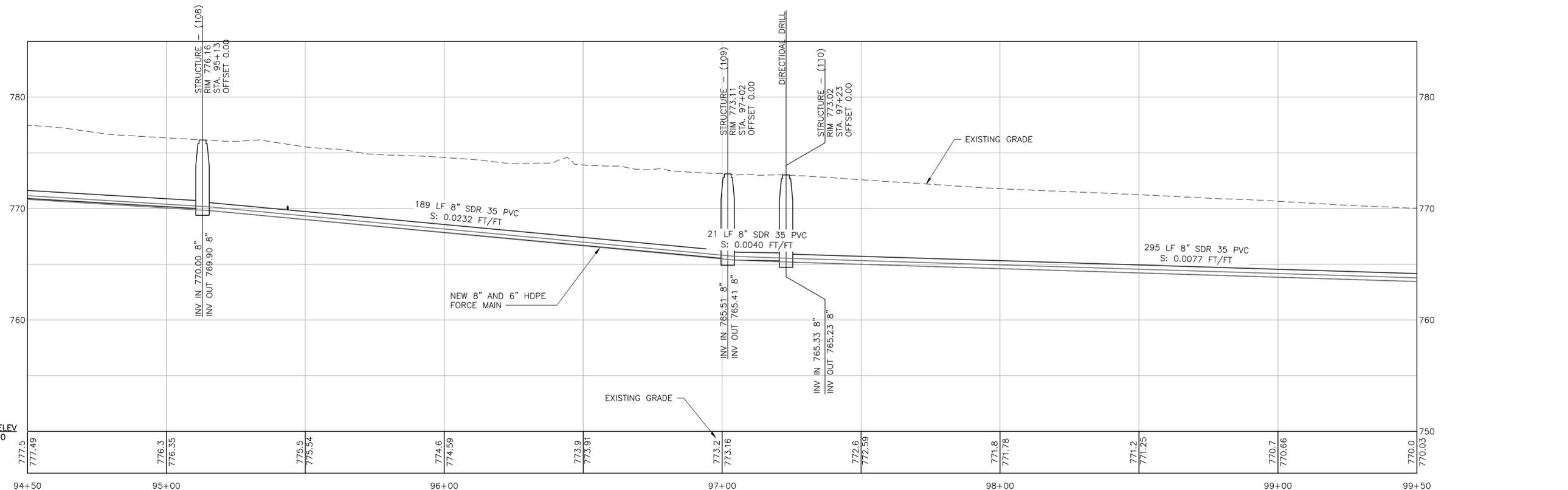
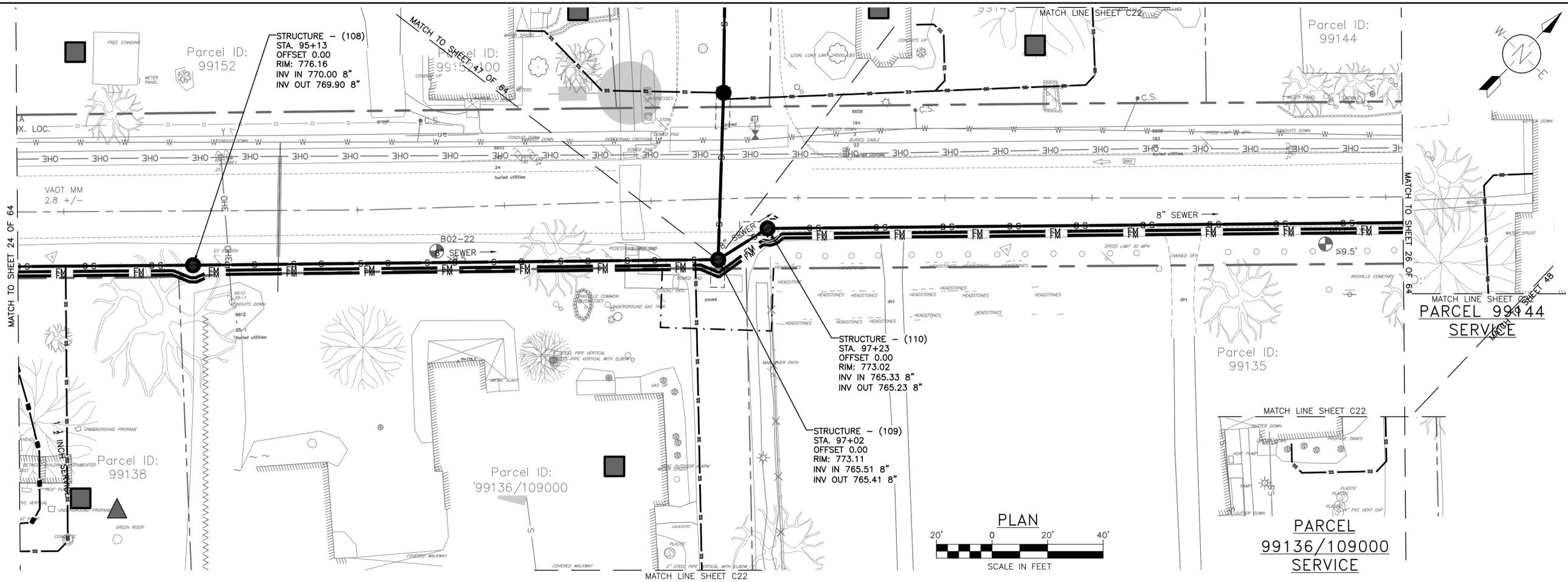


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REVISIONS	REVISION DESCRIPTION	
	NUMBER	DATE

CLIENT NAME
TOWN OF
WAITSFIELD

PROJECT NAME
WAITSFIELD
COMMUNITY
WASTEWATER
SYSTEM
PROJECT ADDRESS
4144 MAIN STREET
WAITSFIELD, VERMONT 05673

SHEET TITLE
PLAN AND PROFILE
STA 94+50 - 99+50

D&K PROJECT #	PROJ. ENG.
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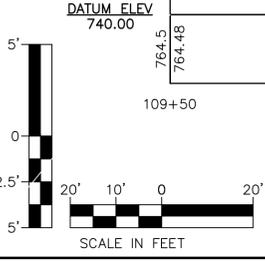
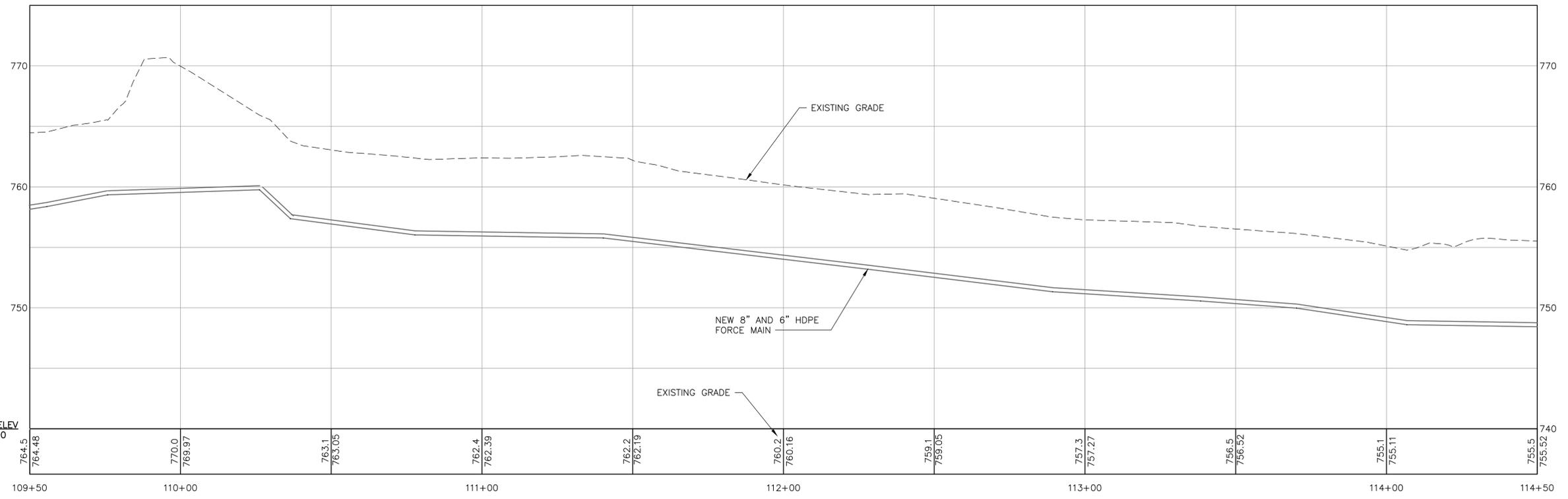
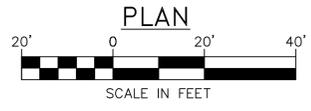
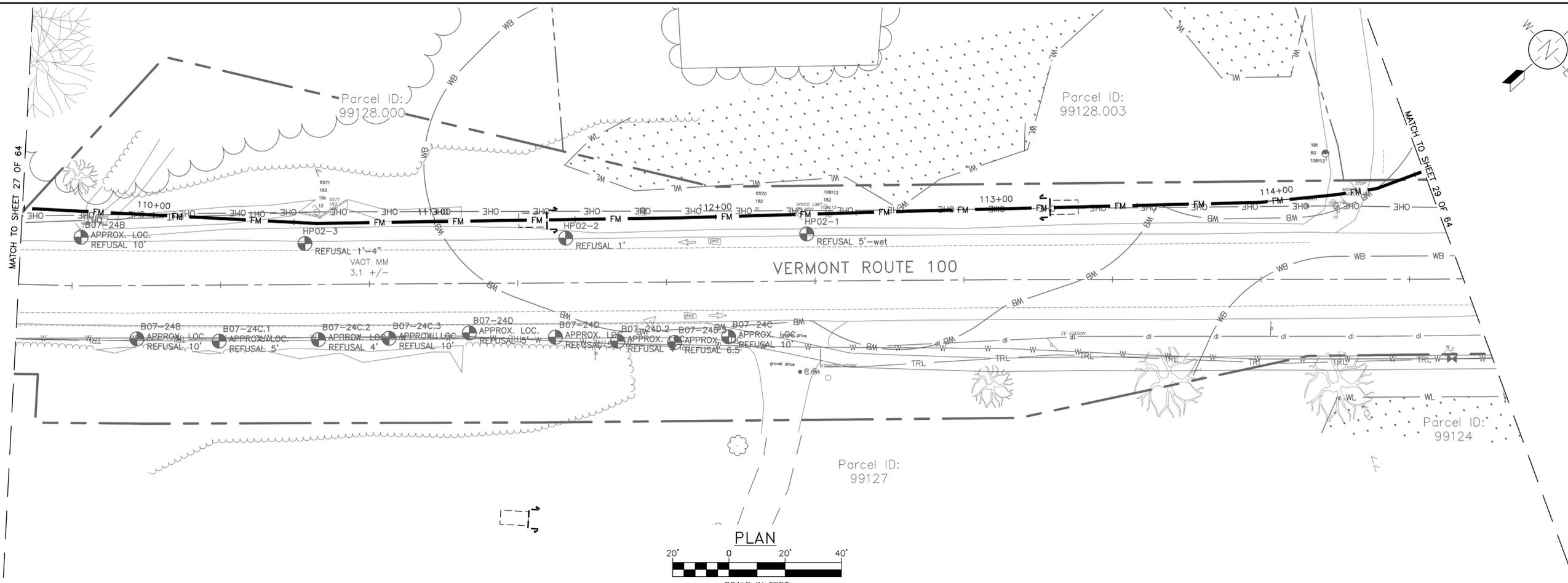
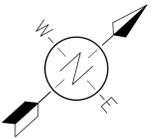
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PROFILE

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REVISIONS	BY	DATE	DESCRIPTION

CLIENT NAME
TOWN OF
WAITSFIELD

PROJECT NAME
WAITSFIELD
COMMUNITY
WASTEWATER
SYSTEM
PROJECT ADDRESS
4144 MAIN STREET
WAITSFIELD, VERMONT 05673

SHEET TITLE
PLAN AND PROFILE
STA 109+50 - 114+50

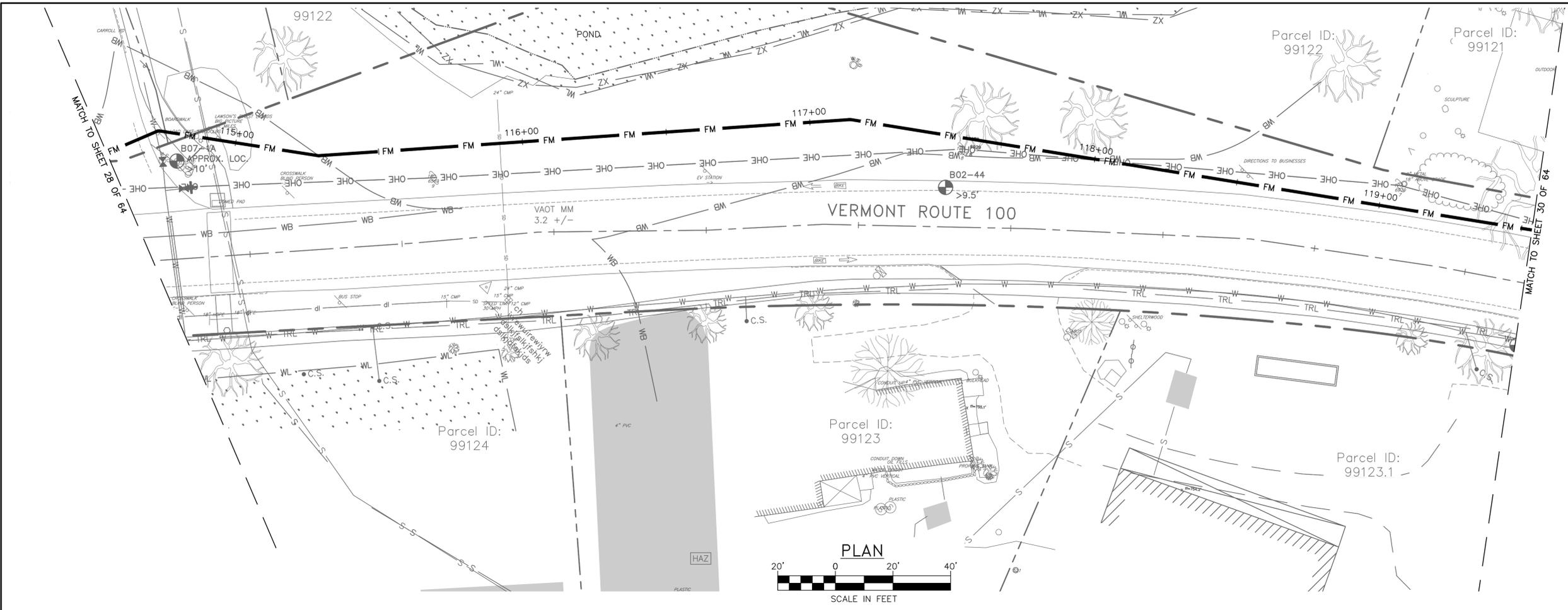
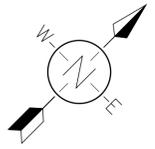
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DATE
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SHEET NUMBER
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SHEET: 28 of 64

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REVISIONS	BY	DATE	NUMBER
	REVISION DESCRIPTION		

CLIENT NAME
TOWN OF
WAITSFIELD

PROJECT NAME
**WAITSFIELD
COMMUNITY
WASTEWATER
SYSTEM**
PROJECT ADDRESS
4144 MAIN STREET
WAITSFIELD, VERMONT 05673

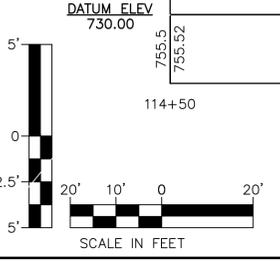
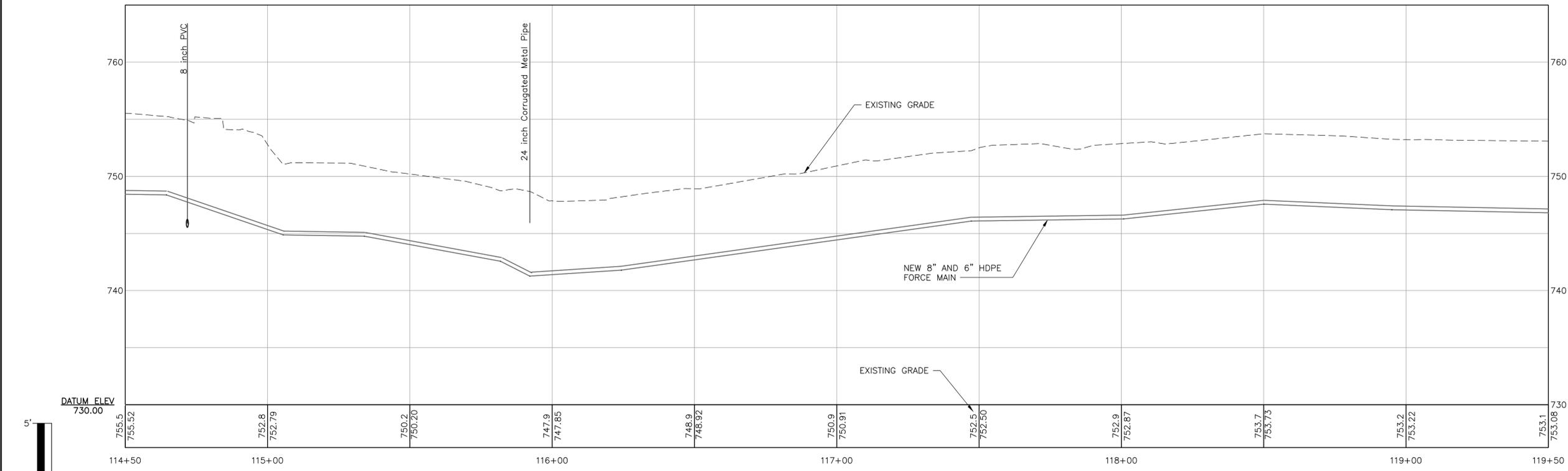
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DATE
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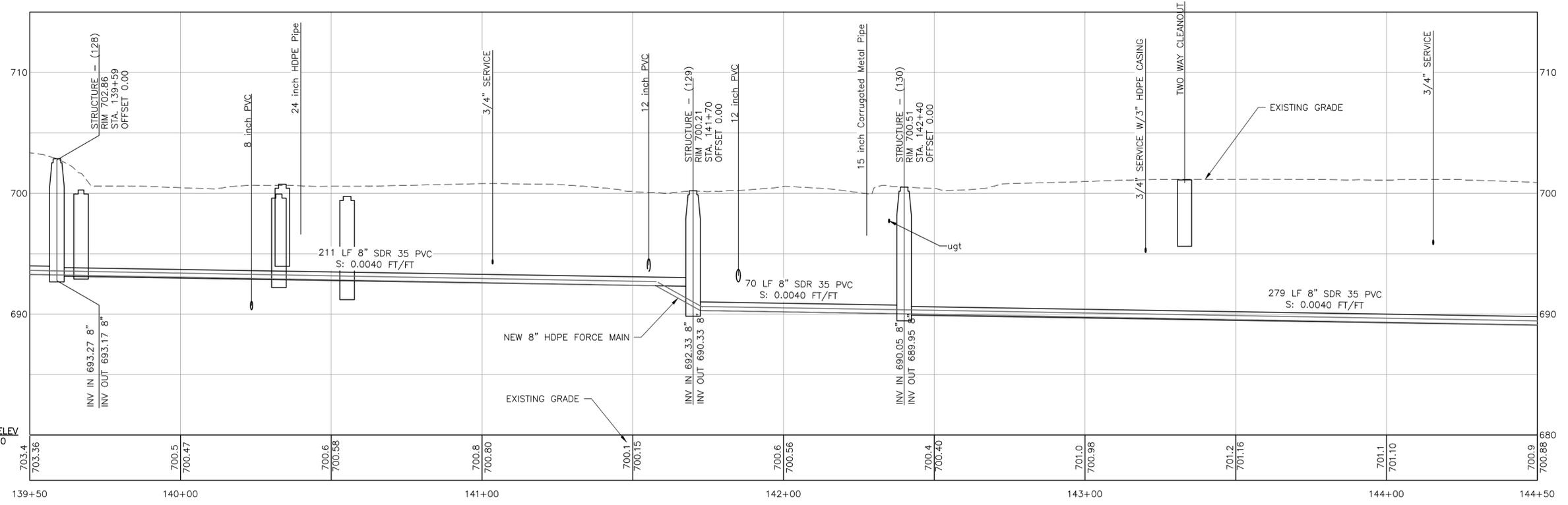
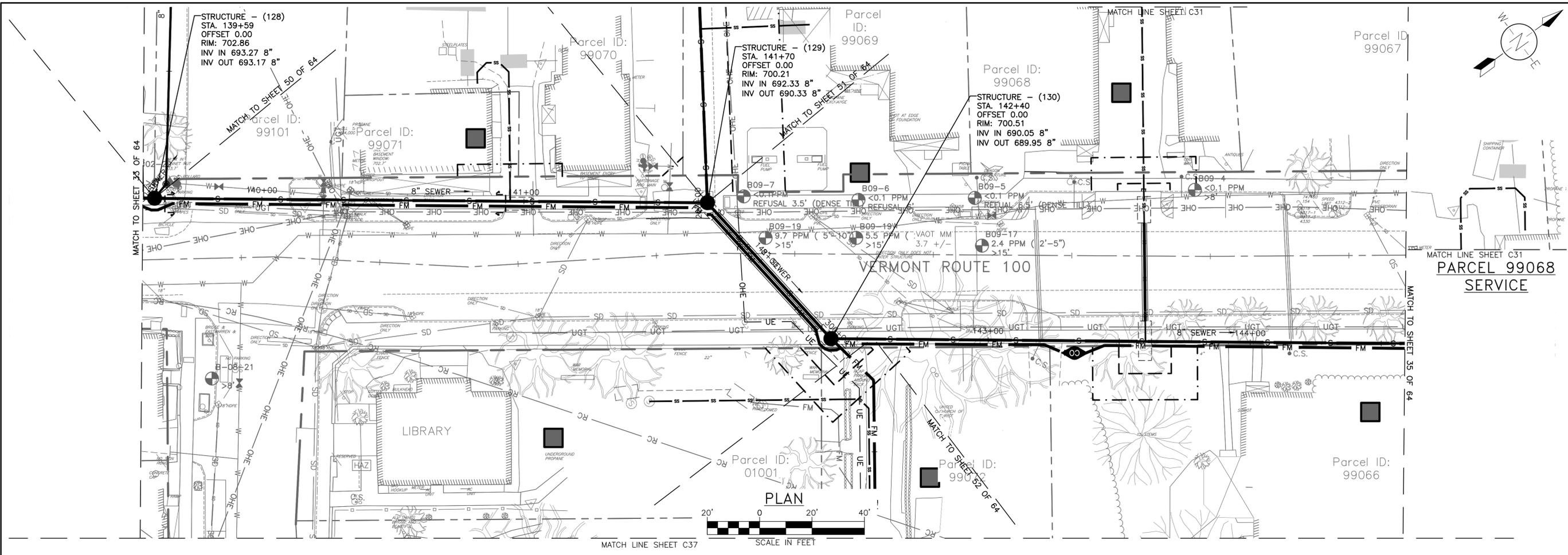
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PROFILE

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REVISIONS	BY	DATE	REVISION DESCRIPTION

CLIENT NAME
TOWN OF
WAITSFIELD

PROJECT NAME
WAITSFIELD
COMMUNITY
WASTEWATER
SYSTEM

PROJECT ADDRESS
4144 MAIN STREET
WAITSFIELD, VERMONT 05673

SHEET TITLE
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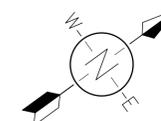
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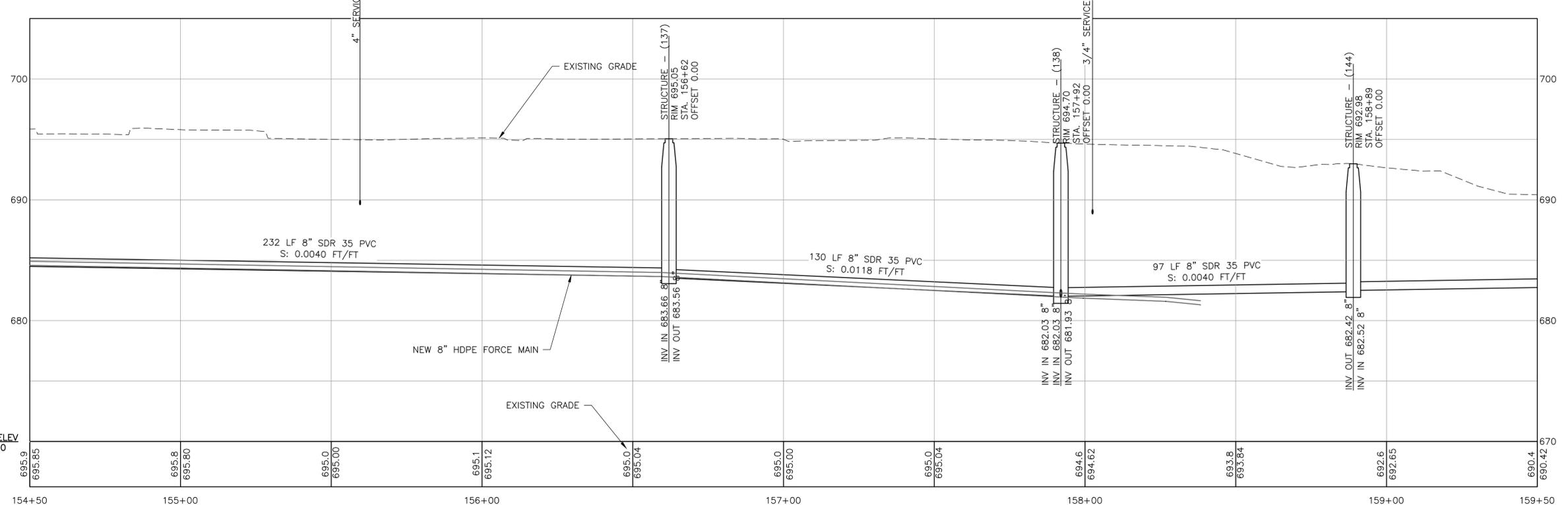
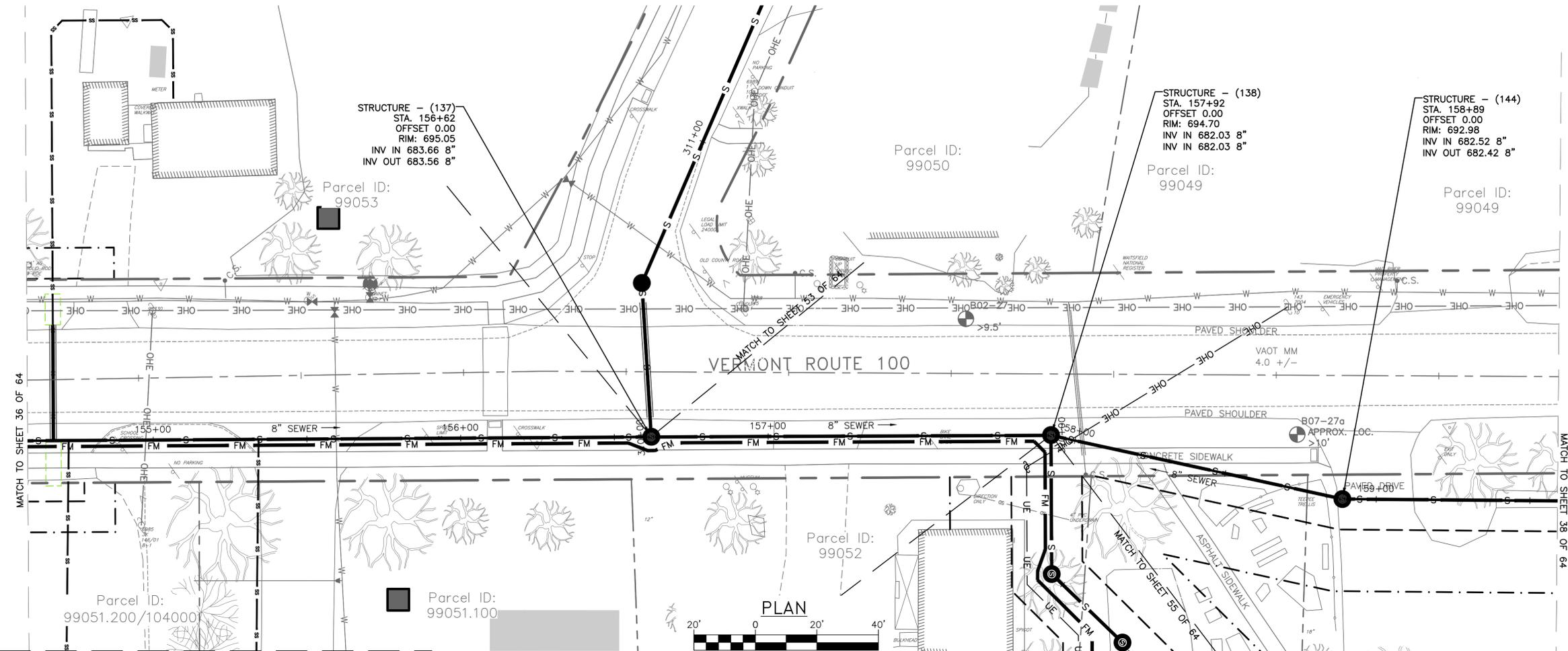
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REVISIONS	BY	DATE	REVISION DESCRIPTION

CLIENT NAME
TOWN OF
WAITSFIELD

PROJECT NAME
WAITSFIELD
COMMUNITY
WASTEWATER
SYSTEM
PROJECT ADDRESS
4144 MAIN STREET
WAITSFIELD, VERMONT 05673

SHEET TITLE
PLAN AND PROFILE
STA 154+50 - 159+50

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PROJ. ENG. JBA
DRAWN BY EBS
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DATE
MAY 17, 2025

SHEET NUMBER

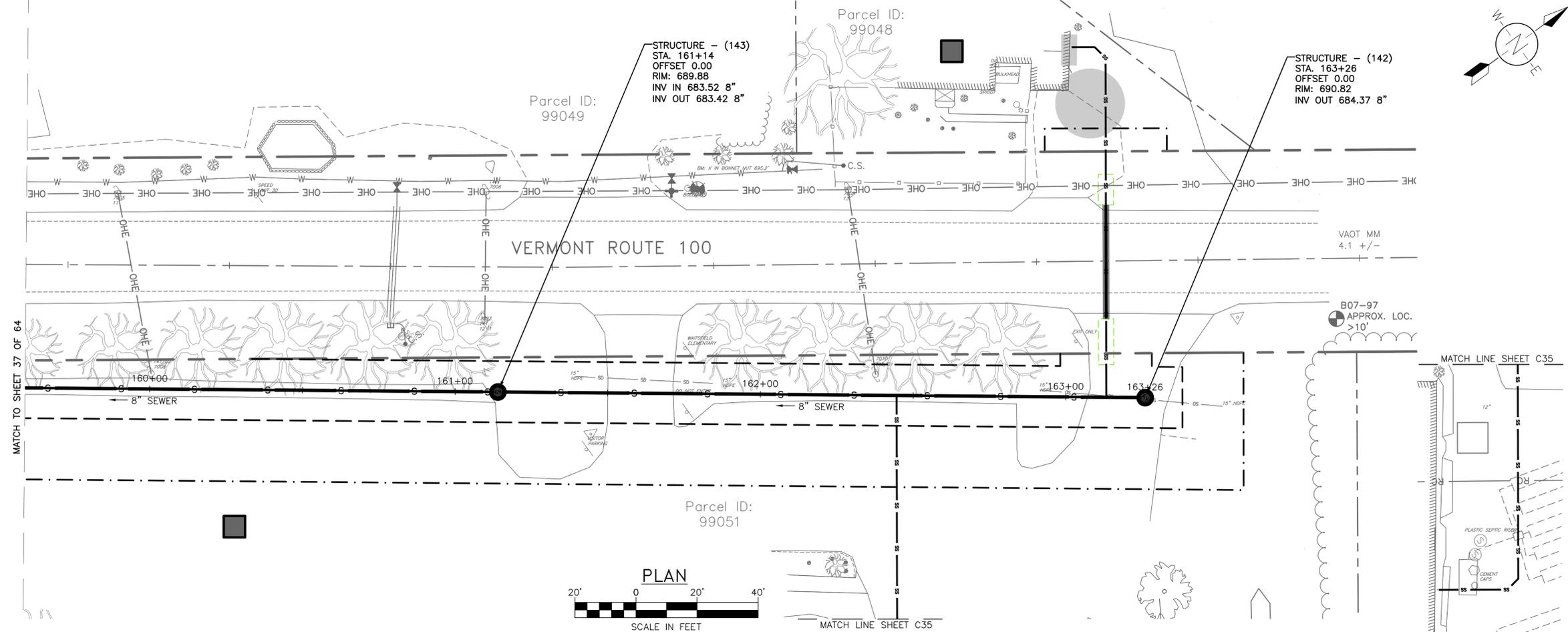
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**PARCEL 99051
SERVICE**

REVISIONS	BY	DATE	REVISION DESCRIPTION

CLIENT NAME
TOWN OF
WAITSFIELD

PROJECT NAME
**WAITSFIELD
COMMUNITY
WASTEWATER
SYSTEM**
PROJECT ADDRESS
4144 MAIN STREET
WAITSFIELD, VERMONT 05673

SHEET TITLE
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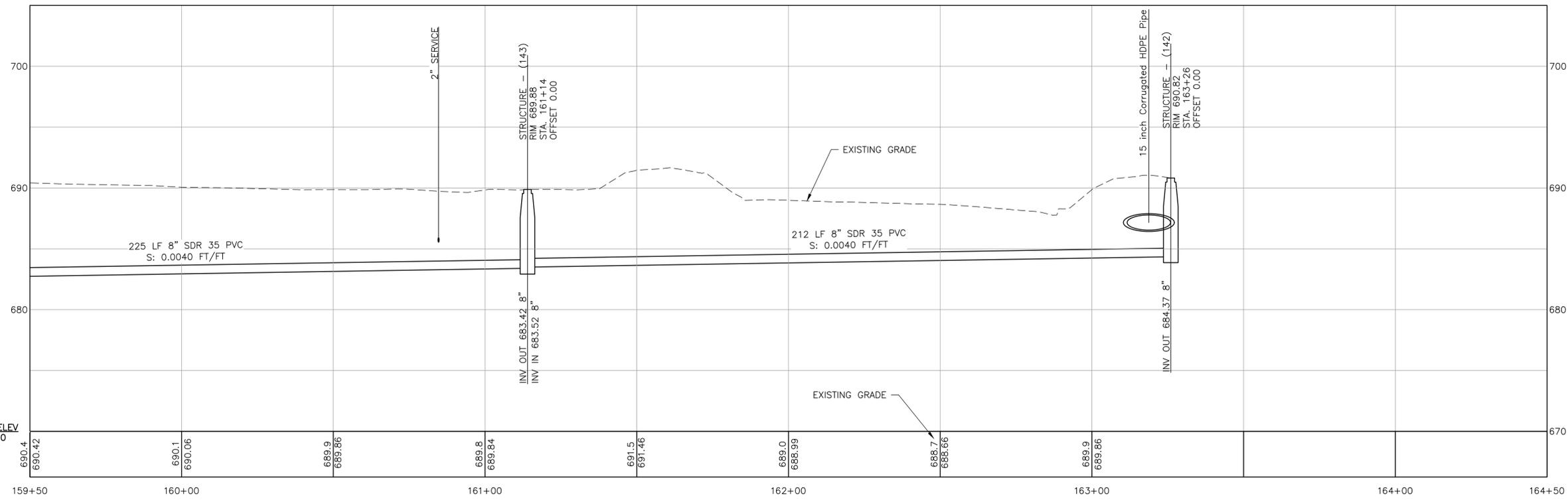
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DATE
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SHEET NUMBER

C35

SHEET: 38 of 64



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REVISIONS	REVISION DESCRIPTION		BY
	NUMBER	DATE	

CLIENT NAME
TOWN OF
WAITSFIELD

PROJECT NAME
**WAITSFIELD
COMMUNITY
WASTEWATER
SYSTEM**
PROJECT ADDRESS
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WAITSFIELD, VERMONT 05673

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OF

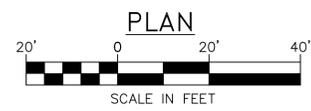
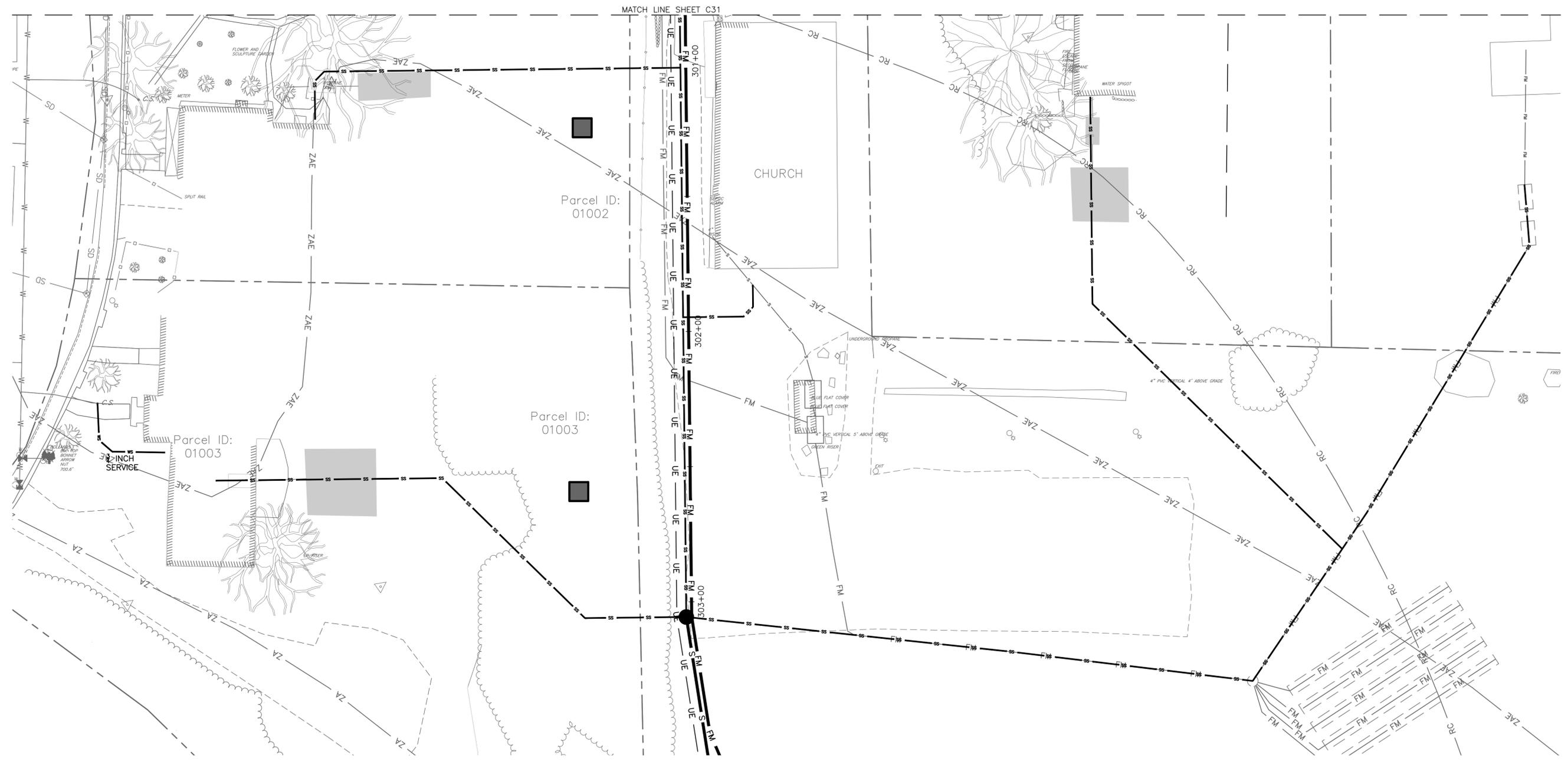
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MAY 17, 2025

SHEET NUMBER

C36

SHEET: 39 of 64



PARCEL
99051.200/104000 AND
99051.100 SERVICE

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REVISIONS	REVISION DESCRIPTION	DATE	NUMBER

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PROJECT NAME
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PROJECT ADDRESS
4144 MAIN STREET
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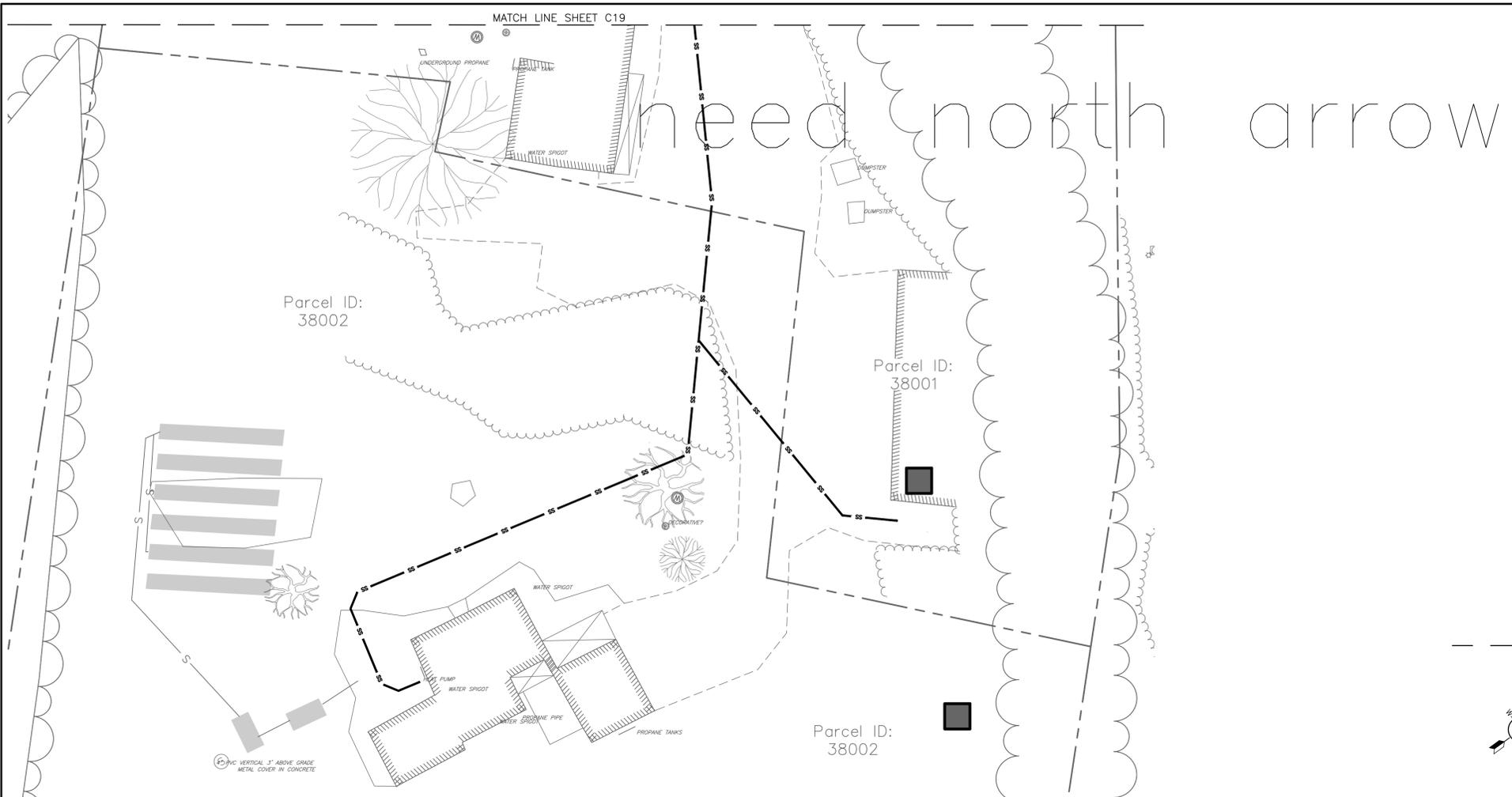
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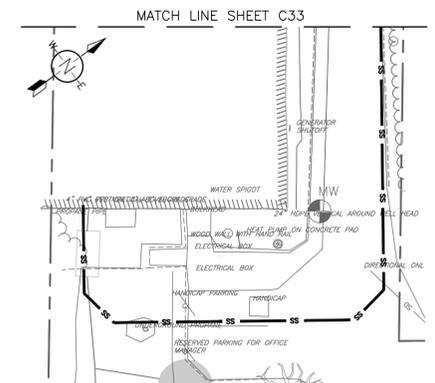
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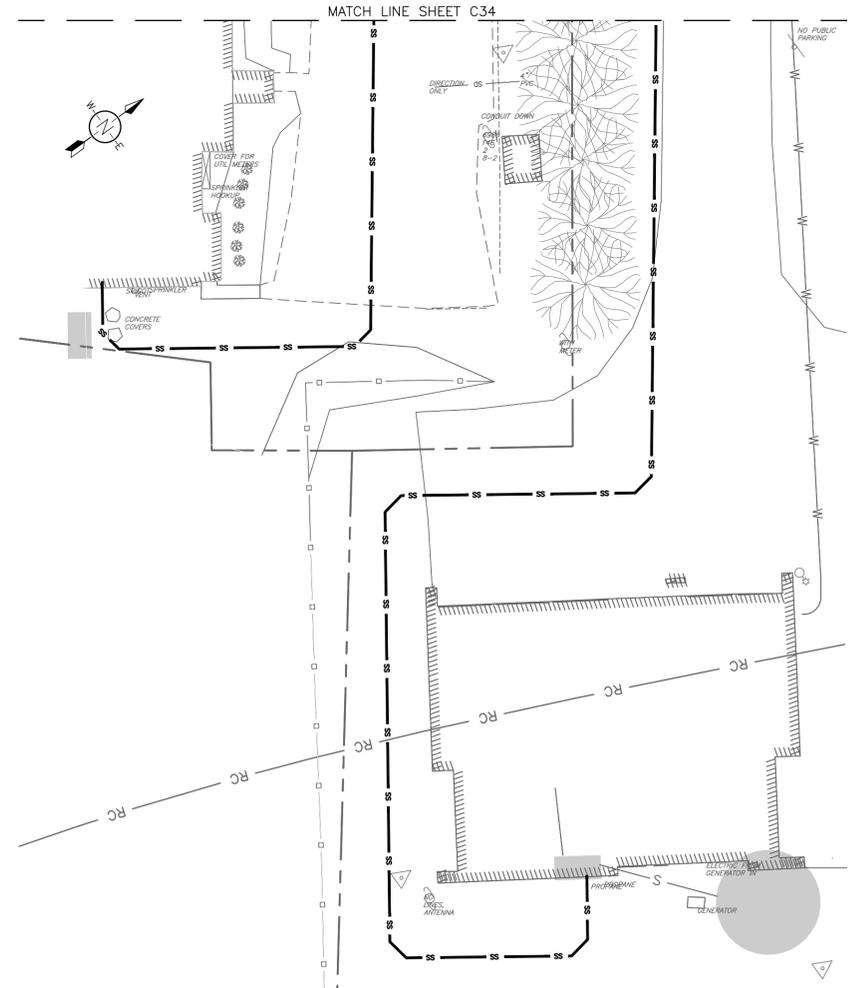
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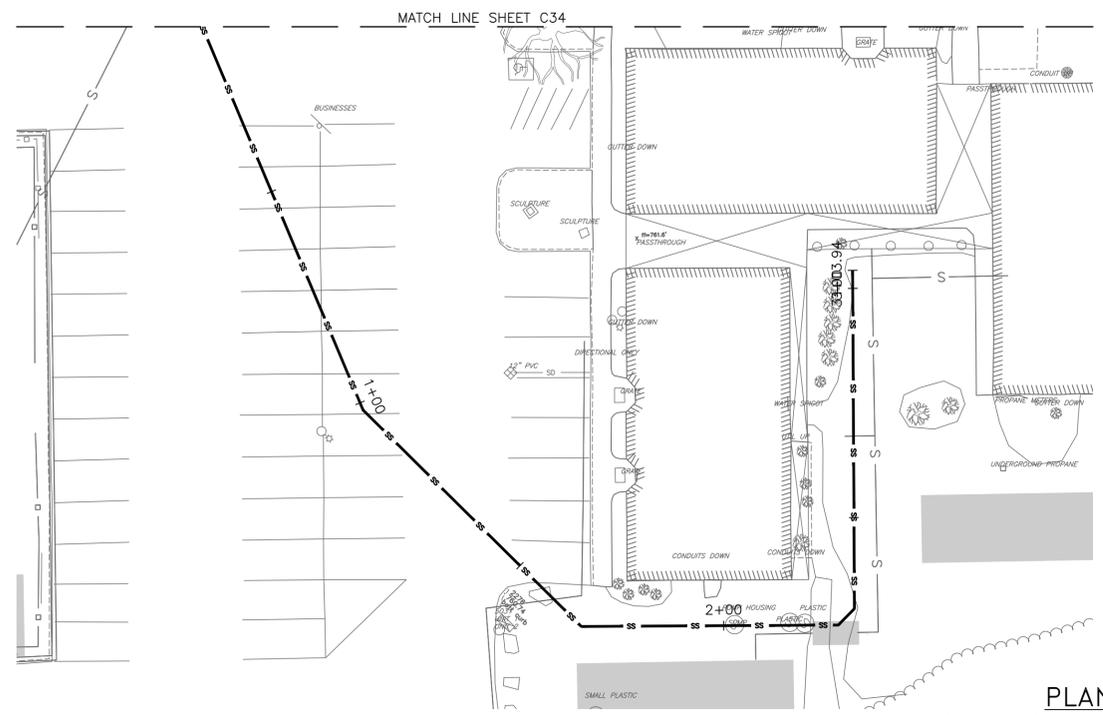


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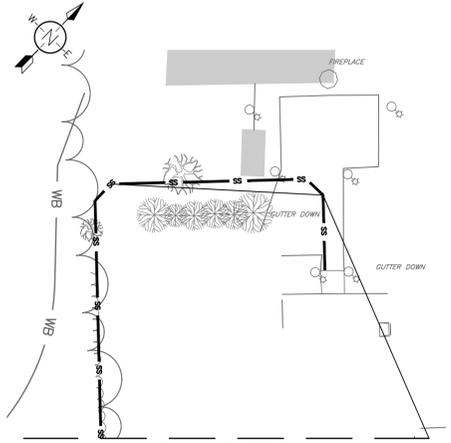
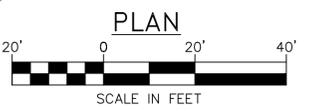


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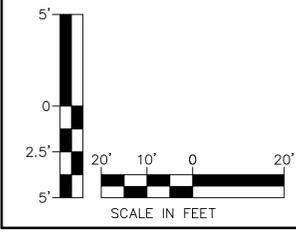
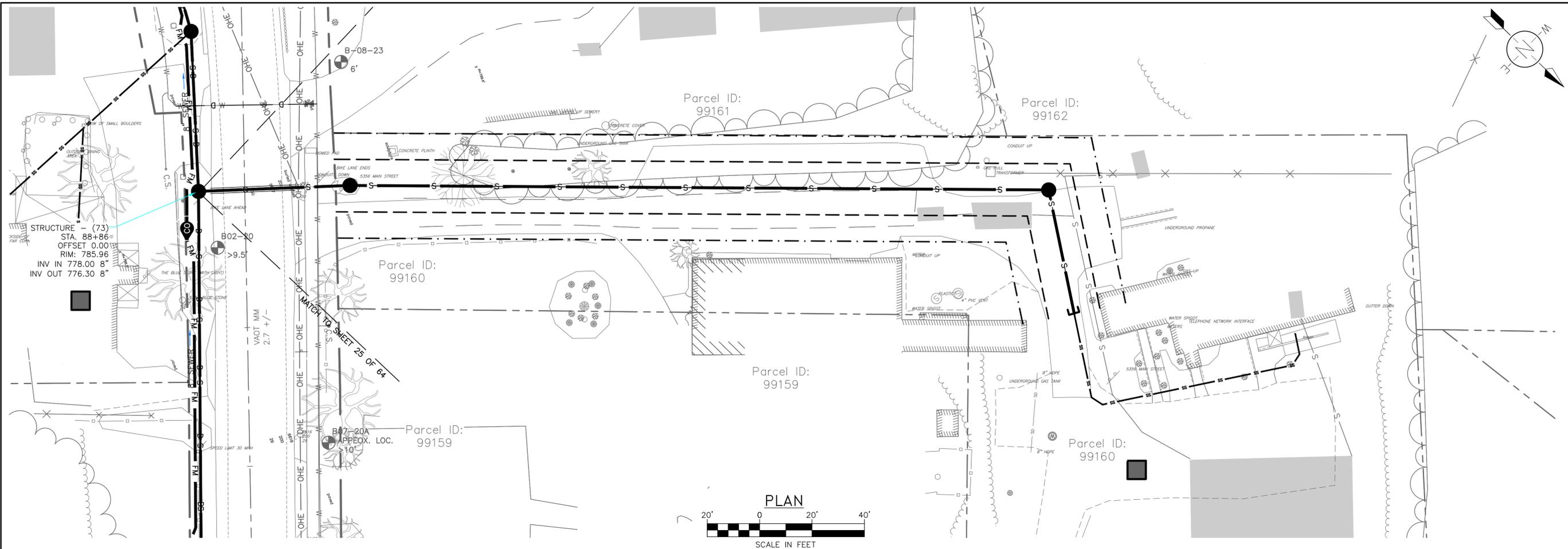
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**PARCEL 99128.000
SERVICE**

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PROFILE

REVISIONS	REVISION DESCRIPTION	
	NUMBER	DATE

CLIENT NAME
TOWN OF
WAITSFIELD

PROJECT NAME
WAITSFIELD
COMMUNITY
WASTEWATER
SYSTEM
PROJECT ADDRESS
4144 MAIN STREET
WAITSFIELD, VERMONT 05673

SHEET TITLE
PLAN AND PROFILE
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BRANCH

D&K PROJECT # 227947	PROJ. ENG. JBA
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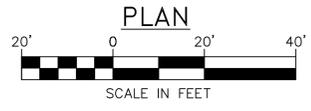
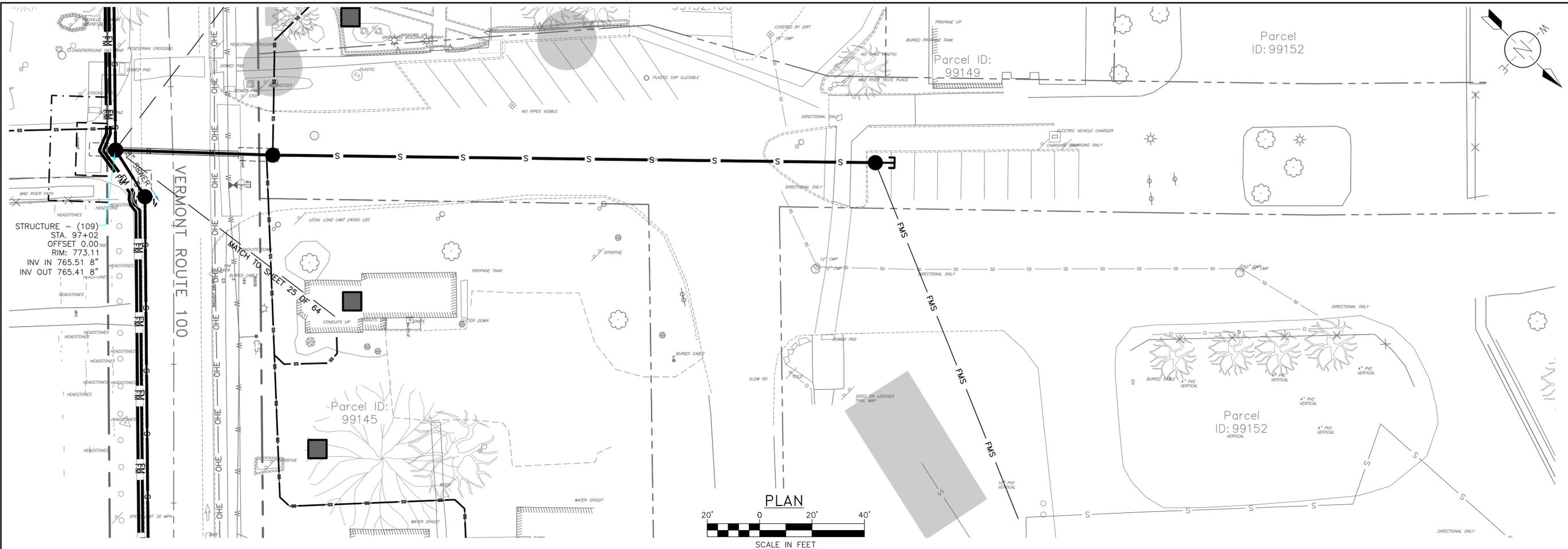
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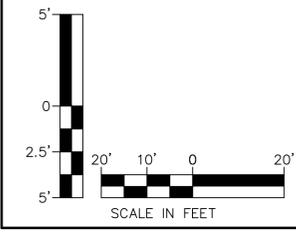
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REVISIONS	BY	DATE	NUMBER	REVISION DESCRIPTION

CLIENT NAME
TOWN OF
WAITSFIELD

PROJECT NAME
WAITSFIELD
COMMUNITY
WASTEWATER
SYSTEM
PROJECT ADDRESS
4144 MAIN STREET
WAITSFIELD, VERMONT 05673

SHEET TITLE
PLAN AND PROFILE
MAD RIVER GREEN
BRANCH

D&K PROJECT # 227947	PROJ. ENG. JBA
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DATE
MAY 17, 2025

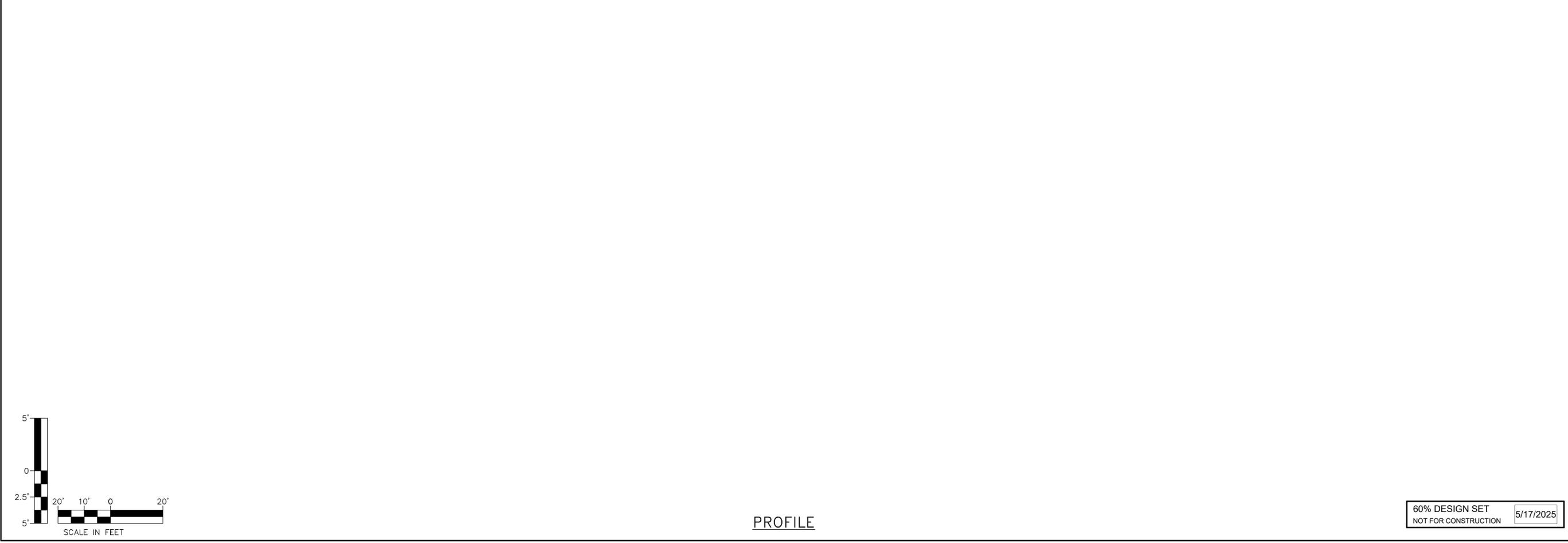
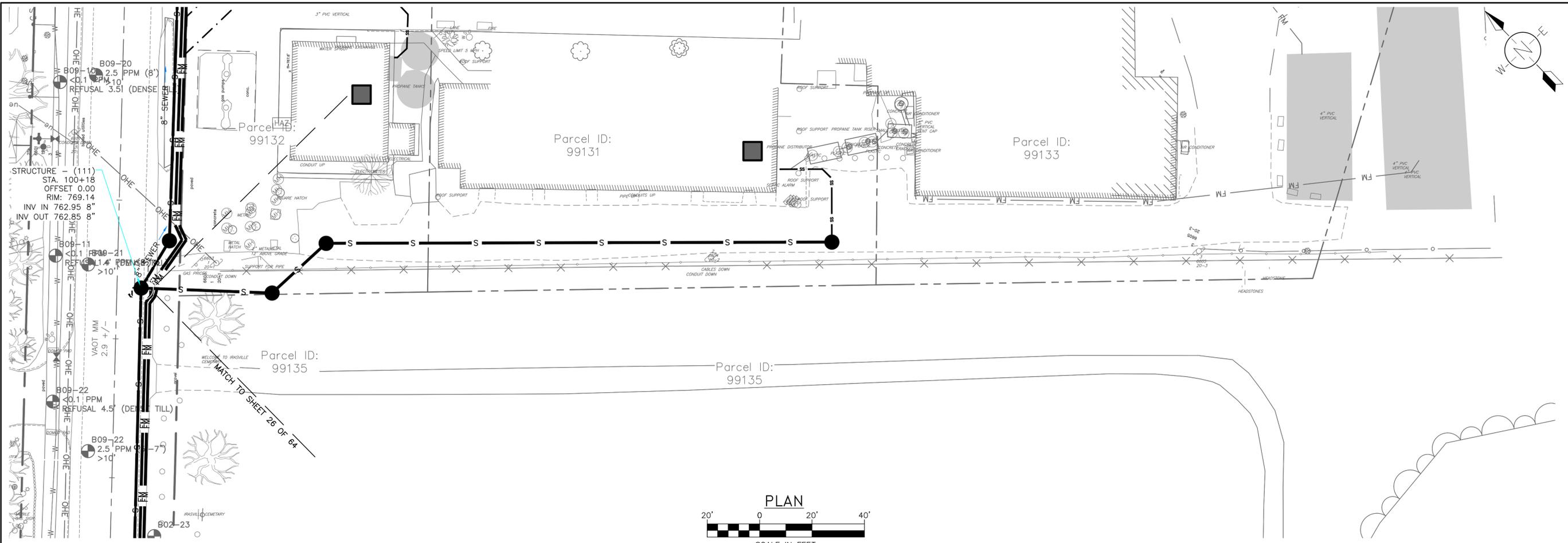
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REVISIONS	BY	DATE	NUMBER	REVISION DESCRIPTION

CLIENT NAME
TOWN OF
WAITSFIELD

PROJECT NAME
WAITSFIELD
COMMUNITY
WASTEWATER
SYSTEM
PROJECT ADDRESS
4144 MAIN STREET
WAITSFIELD, VERMONT 05673

SHEET TITLE
PLAN AND PROFILE
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D&K PROJECT # 227947	PROJ. ENG. JBA
DRAWN BY EBS	CHECKED BY NJS

DATE
MAY 17, 2025

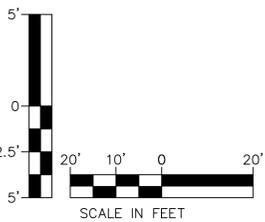
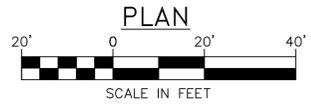
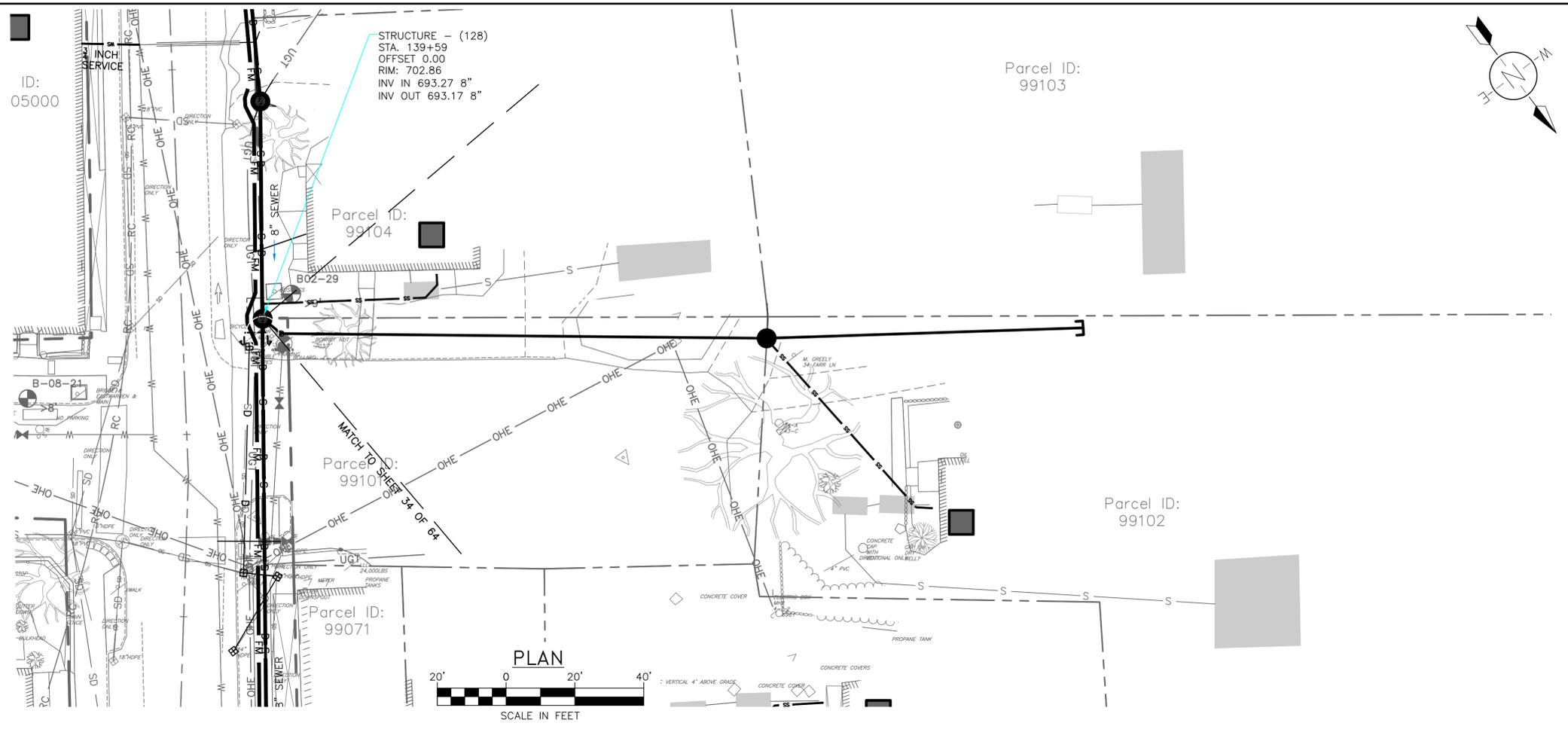
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PROFILE

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REVISIONS	BY	
	NUMBER	DATE

CLIENT NAME
TOWN OF
WAITSFIELD

PROJECT NAME
**WAITSFIELD
COMMUNITY
WASTEWATER
SYSTEM**
PROJECT ADDRESS
4144 MAIN STREET
WAITSFIELD, VERMONT 05673

SHEET TITLE
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FARR LANE BRANCH**

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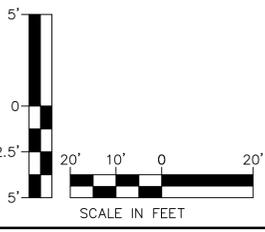
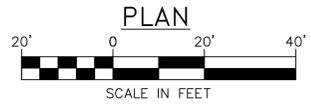
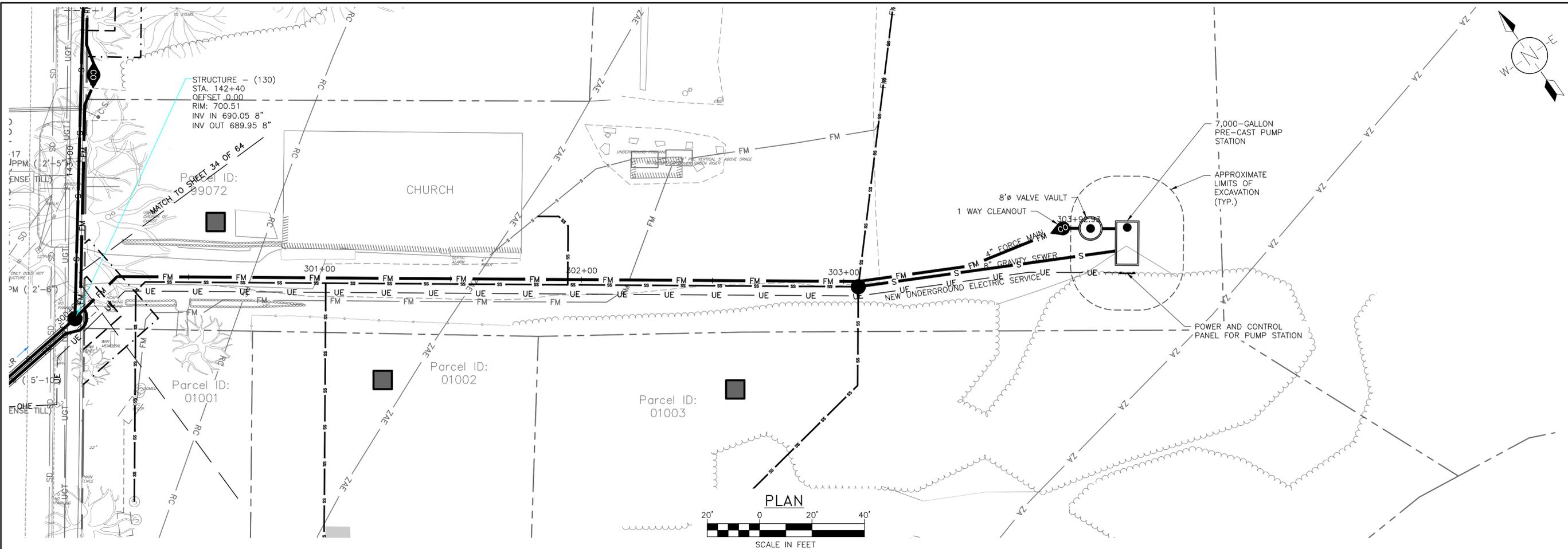
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MAY 17, 2025

SHEET NUMBER

C45

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PROFILE

REVISIONS	BY	DATE	REVISION DESCRIPTION

CLIENT NAME
TOWN OF
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WASTEWATER
SYSTEM
PROJECT ADDRESS
4144 MAIN STREET
WAITSFIELD, VERMONT 05673

SHEET TITLE
PLAN AND PROFILE
BRIDGE STREET
NORTH BRANCH

D&K PROJECT # 227947	PROJ. ENG. JBA
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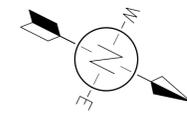
DATE
MAY 17, 2025

SHEET NUMBER

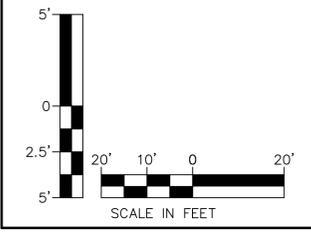
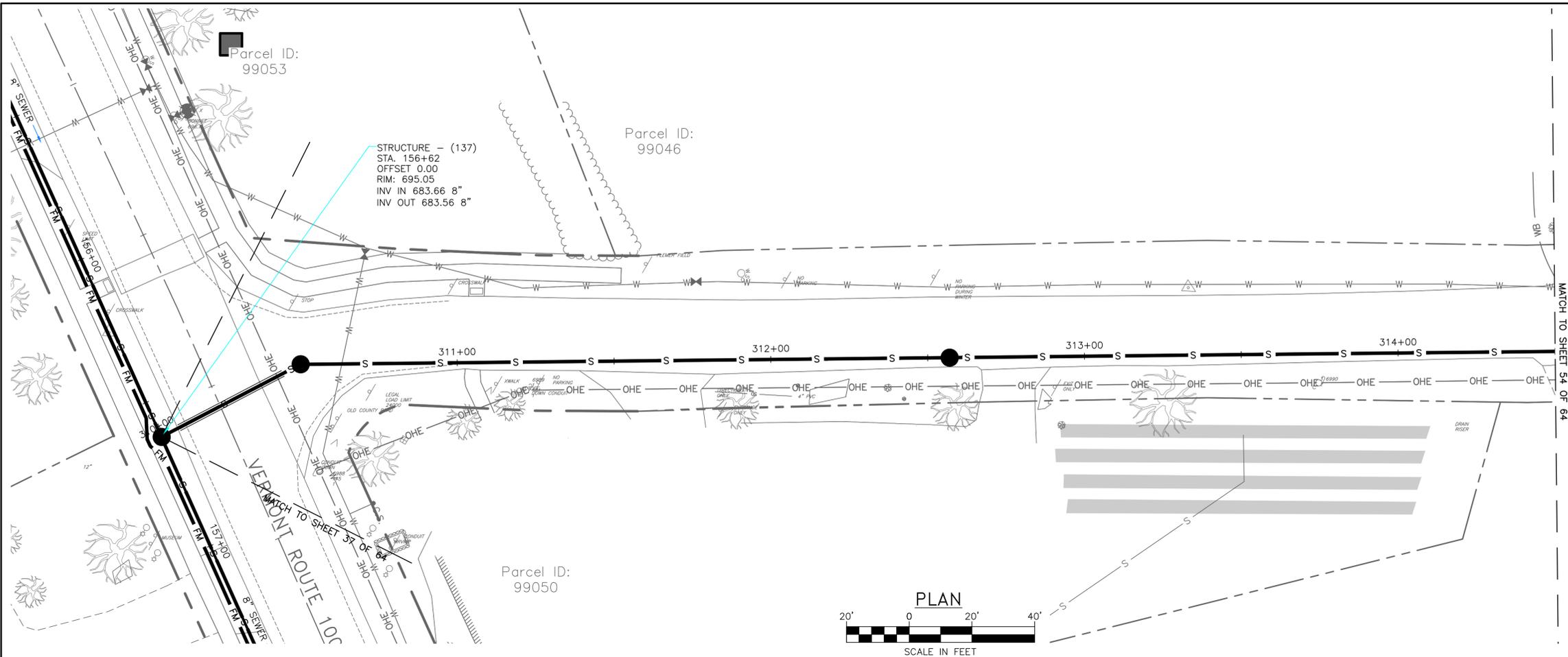
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SHEET TITLE
 PLAN AND PROFILE
 OLD COUNTY ROAD
 1 OF 2

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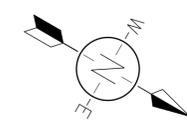
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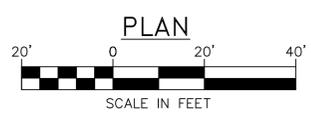
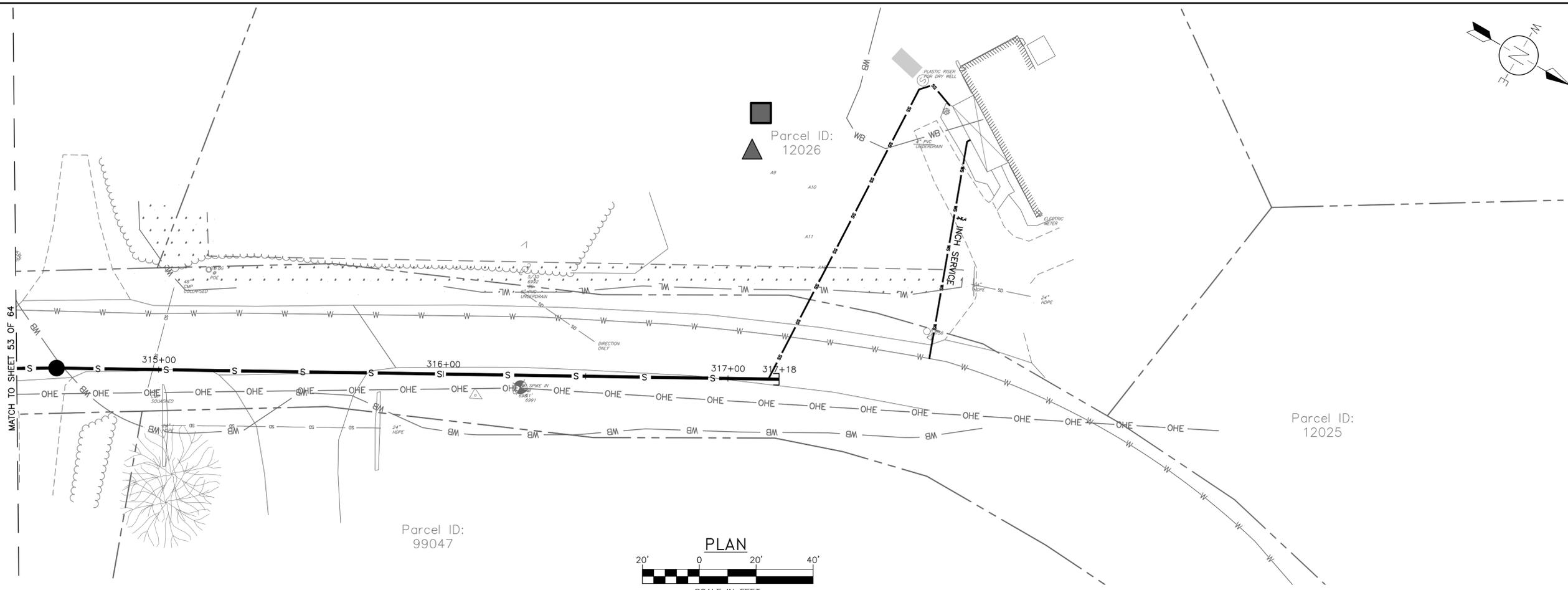
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 5/17/2025

SHEET: 53 of 64

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	REVISION DESCRIPTION	DATE	NUMBER		

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WASTEWATER
SYSTEM**

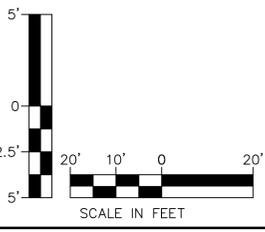
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WAITSFIELD, VERMONT 05673

SHEET TITLE
**PLAN AND PROFILE
OLD COUNTY ROAD
2 OF 2**

D&K PROJECT # 227947	PROJ. ENG. JBA
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SHEET NUMBER
C49



PROFILE

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 4144 MAIN STREET
 WAITSFIELD, VERMONT 05673

SHEET TITLE
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 PARCEL 099181000
 PUMP STATION**

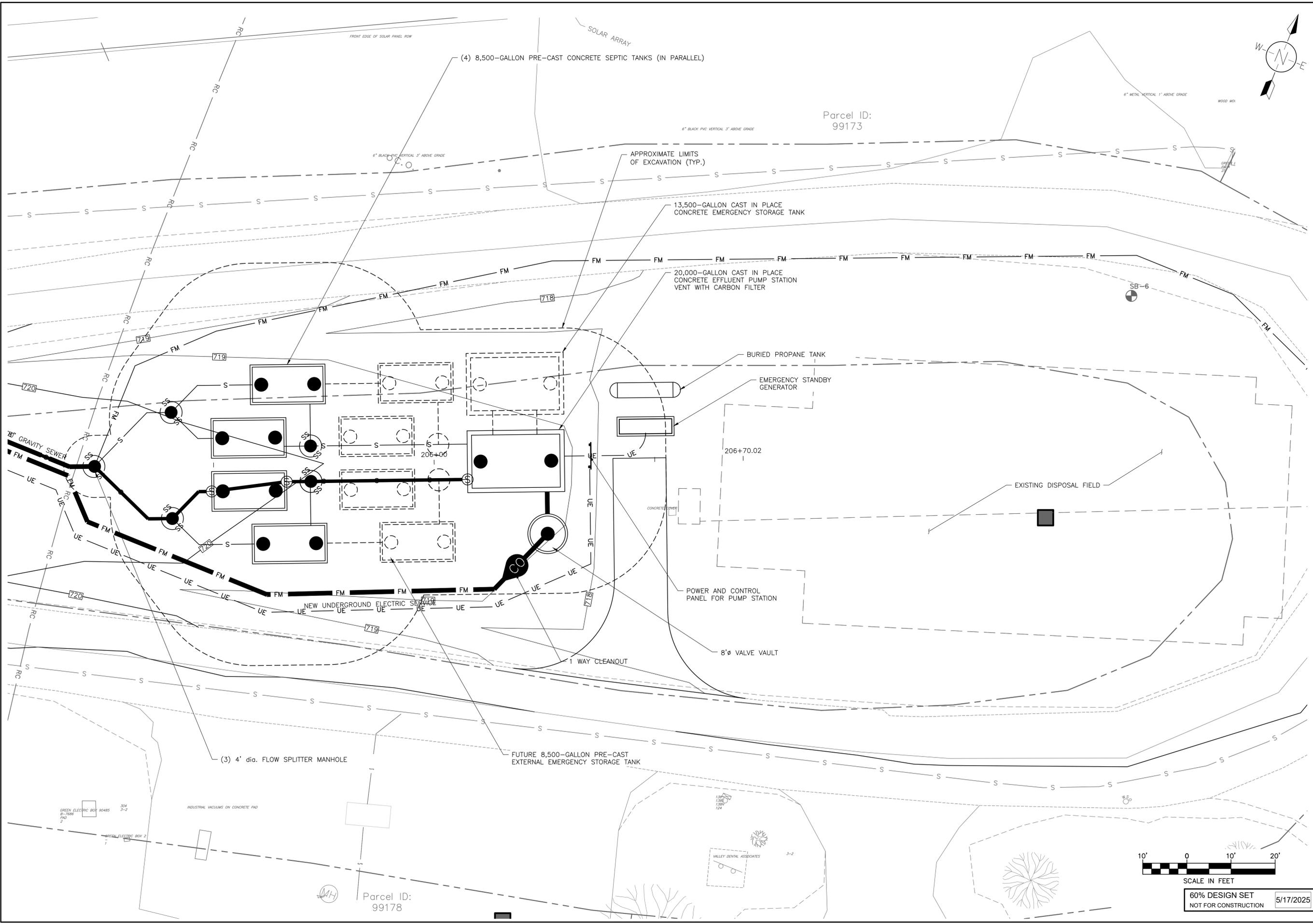
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227947	JBA
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DATE
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SHEET NUMBER

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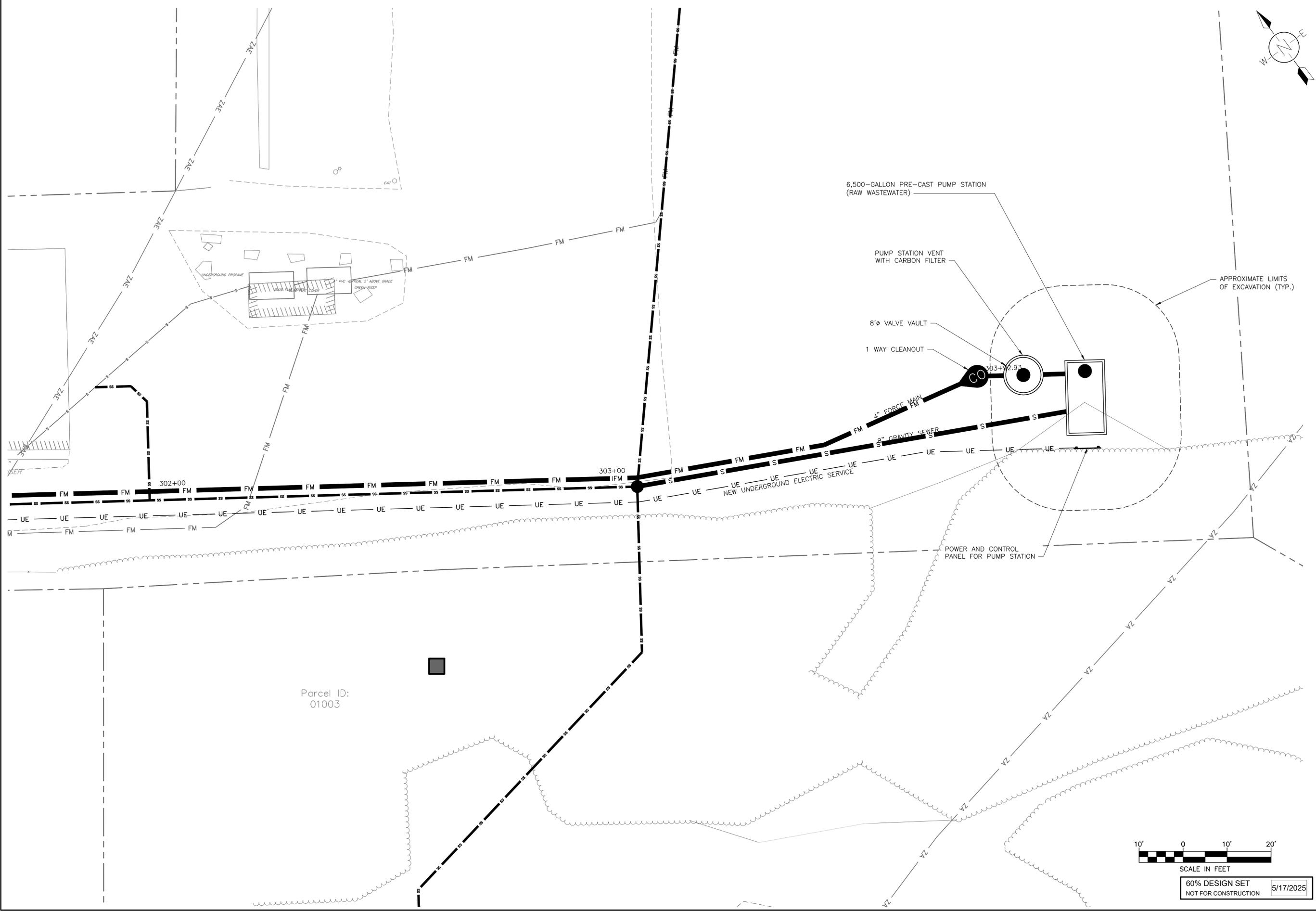
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 WAITSFIELD, VERMONT 05673

SHEET TITLE
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 PARCEL 99072
 PUMP STATION

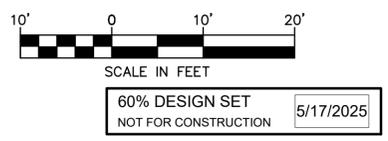
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DATE
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SHEET NUMBER

C54

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SHEET TITLE
**SEWER AND TRENCH
DETAILS**

D&K PROJECT #	PROJ. ENG.
227947	JBA
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EBS	NJS

DATE
MAY 17, 2025

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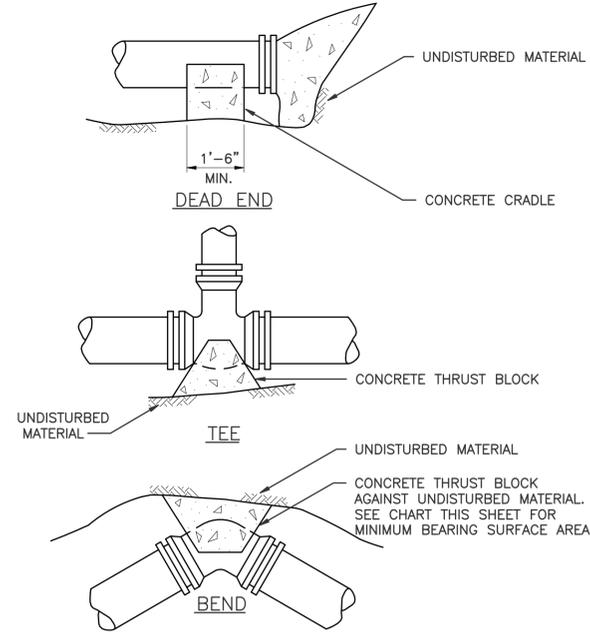
C56

**AREA OF BEARING FACE OF CONCRETE
THRUST BLOCKS IN SQUARE FEET**

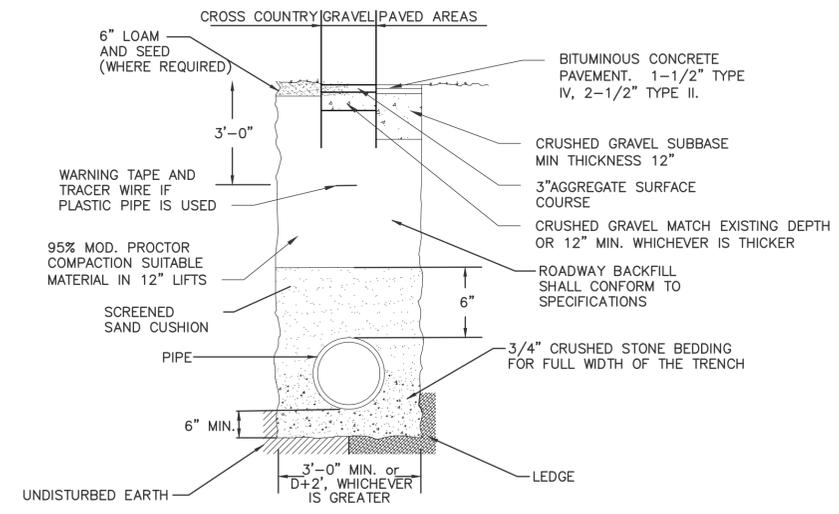
PIPE SIZE (IN)	SOFT WET CLAY, SAND OR SILT	DRY SAND	COMPACT COARSE SAND OR GRAVEL HARDPAN
SOIL BEARING CAPACITIES (APPROXIMATE)			
DEAD END OR TEE			
8 OR LESS	15	5	4
1/4 BEND			
8 OR LESS	21	7	5
1/8 BEND			
8 OR LESS	12	4	3
1/16 BEND			
8 OR LESS	6	2	2

THRUST BLOCK TABLE NOTES

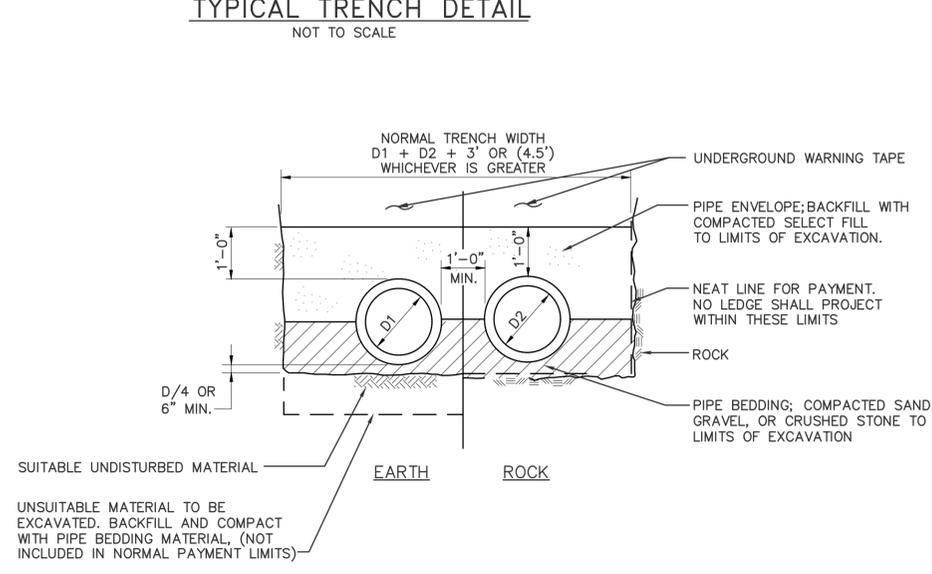
- FIGURES BASED ON 300 PSI.
- FOR PIPE SIZES NOT LISTED USE NEXT LARGER PIPE SIZE.
- WHEN MORE THAN ONE SOIL TYPE IS ENCOUNTERED, THE ONE WITH LEAST BEARING CAPACITY SHALL BE USED.
- RETAINING RODS OR RESTRAINED JOINT PIPE, AS APPROVED BY THE ENGINEER, SHALL BE USED IN PLACE OF THRUST BLOCKS WHEN MUCK IS ENCOUNTERED.
- CONTRACTOR MAY PROPOSE SMALLER THRUST BLOCKS BASED ON PIPE SIZES AND MAXIMUM PRESSURES.



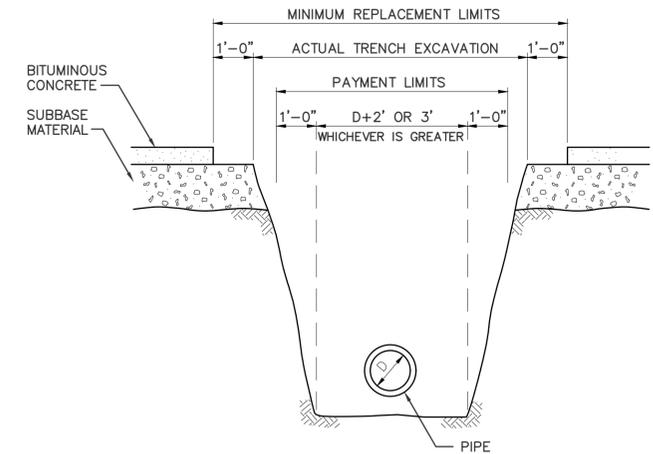
CONCRETE THRUST BLOCK DETAILS
NOT TO SCALE



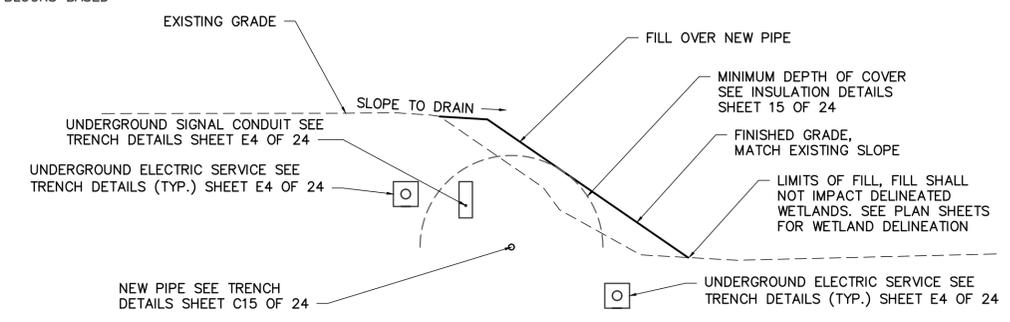
TYPICAL TRENCH DETAIL
NOT TO SCALE



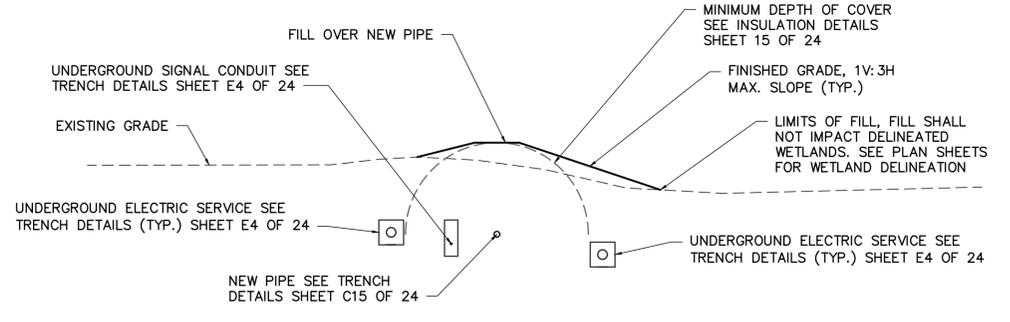
PARALLEL PIPE INSTALLATION SECTION
NOT TO SCALE



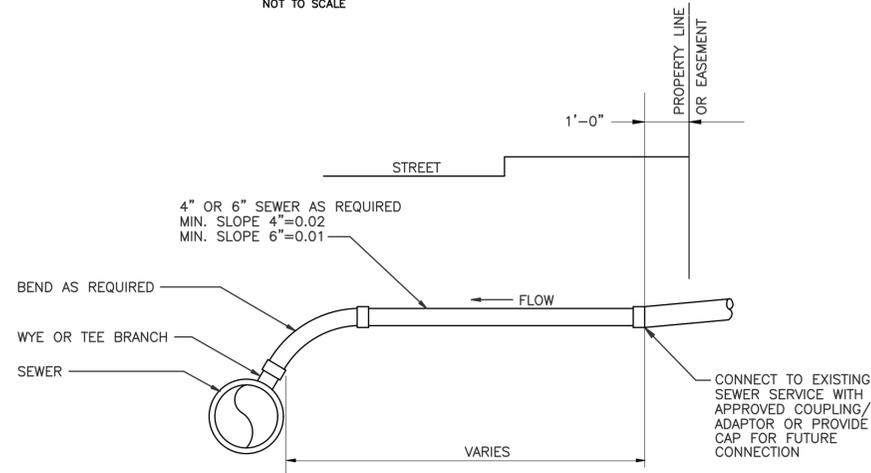
PAVEMENT REPLACEMENT DETAIL
NOT TO SCALE



ADDED FILL OVER PIPE ON SLOPE
NOT TO SCALE



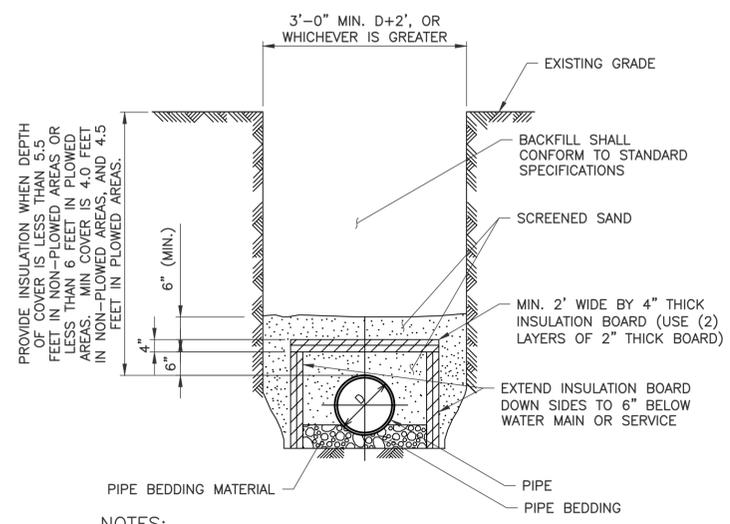
ADDED FILL OVER PIPE ROLLING GRADE
NOT TO SCALE



SEWER SERVICE CONNECTION DETAIL
NOT TO SCALE

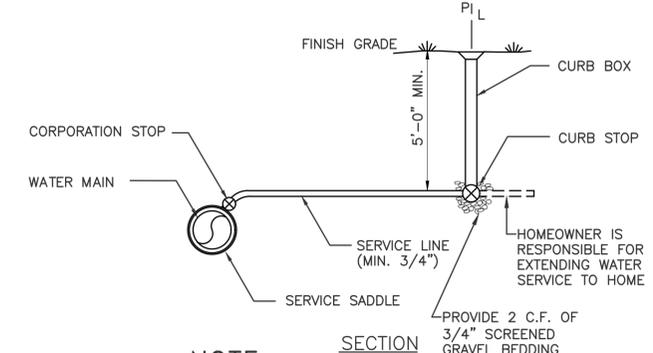
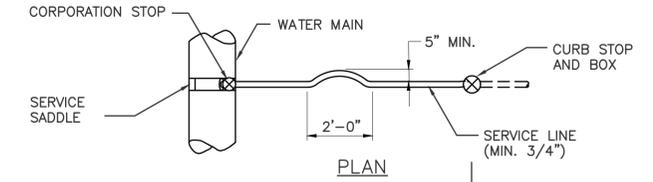
SHALLOW BURIAL TRENCH INSULATION DETAIL TABLE

COVER (FEET)	RIGID INSULATION THICKNESS (IN)
5'-6" OR GREATER IN NON-PLOWED AREAS OR 6' OR GREATER IN PLOWED AREAS	0
4'-0" - 5-6" IN NON-PLOWED AREAS OR 4'-6" - 6'-0" IN PLOWED AREAS	4" ON TOP AND SIDES



- NOTES:**
- INSULATION BOARD TO BE CLOSED CELL, EXTRUDED POLYSTYRENE FOAM SEE STANDARD SPECIFICATIONS
 - BACKFILL MATERIAL AROUND INSULATION MUST BE FINE SAND FREE FROM ROOTS, ORGANIC MATTER OR OTHER INJURIOUS MATERIALS, SEE STANDARD SPECIFICATIONS
 - OVERLAP ALL INSULATION BOARD LAYERS AT JOINTS BY 2'-0" AND USE MASTIC AT ALL JOINTS
 - SEE NOTE ASSOCIATED WITH WATER SERVICE CONNECTION DETAIL FOR ADDITIONAL INSULATION REQUIREMENTS.
 - AT ALL STORM DRAIN/CULVERT CROSSINGS BELOW WATER MAIN, CLOSER THAN 3' ADD 4" OF RIGID INSULATION, BELOW PIPE BEDDING. EXTEND INSULATION 5- FEET BOTH SIDES OF THE CROSSING.

SHALLOW BURIAL TRENCH INSULATION DETAIL
NOT TO SCALE



NOTE
CONTRACTOR SHALL INSTALL FOUR (4) INCHES RIGID INSULATION OVER ALL NEW WATER SERVICE PIPING REGARDLESS OF DEPTH.

WATER SERVICE CONNECTION DETAIL
NOT TO SCALE

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REVISIONS	NUMBER	DATE	REVISION DESCRIPTION

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PROJECT NAME
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COMMUNITY
WASTEWATER
SYSTEM**

PROJECT ADDRESS
4144 MAIN STREET
WAITSFIELD, VERMONT 05673

SHEET TITLE

**WATER AND TRENCH
DETAILS**

D&K PROJECT #

227947

PROJ. ENG.

JBA

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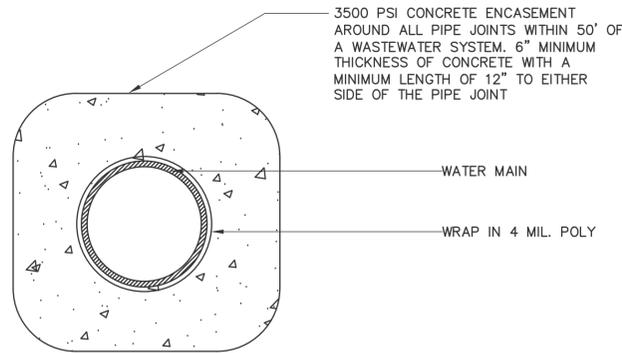
DATE

MAY 17, 2025

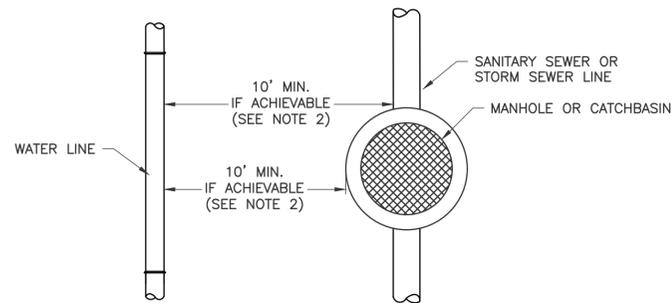
SHEET NUMBER

C57

SHEET: 62 of 64



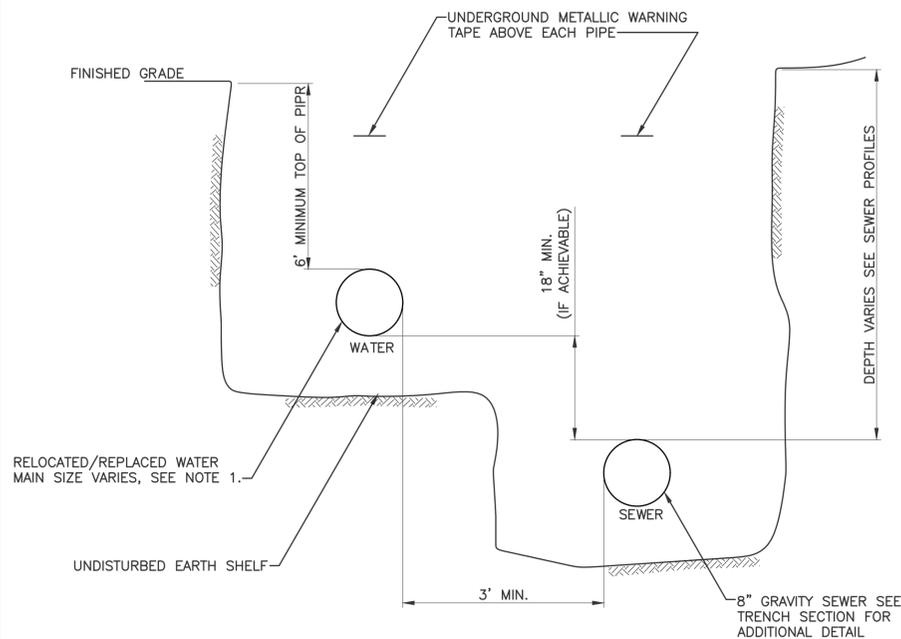
CONCRETE ENCASED JOINTS DETAIL
NOT TO SCALE



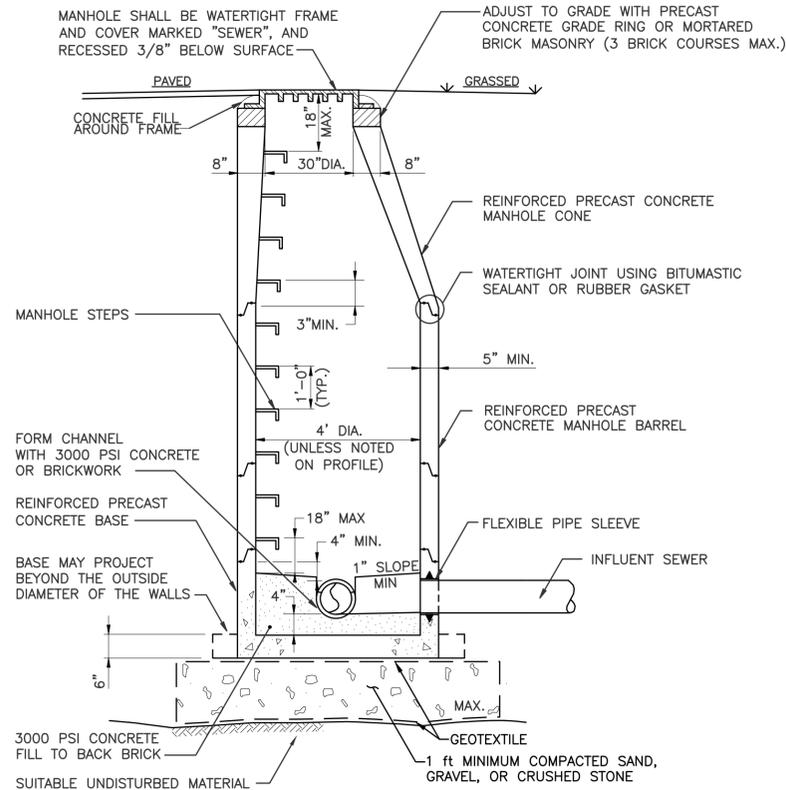
PARALLEL WATER AND SEWER DETAIL
NOT TO SCALE

NOTES:

1. WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED MANHOLE OR SANITARY SEWER. THIS DISTANCE CAN BE REDUCED TO 5 FEET FOR STORM SEWERS. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE.
2. IN CASES WHERE IT IS NOT PRACTICAL TO MAINTAIN A 10 FOOT SEPARATION, THE CONTRACTOR MUST OBTAIN A VARIANCE IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER. SUCH VARIANCE MAY ALLOW INSTALLATION OF THE WATER MAIN CLOSER TO A SEWER, PROVIDED THAT THE WATER MAIN IS LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER. WHERE SEWERS ARE BEING INSTALLED AND MINIMUM SEPARATIONS CANNOT BE MET, THE SEWER MATERIALS SHALL BE WATER MAIN PIPE OR EQUIVALENT AND SHALL BE PRESSURE TESTED TO ENSURE WATER TIGHTNESS.



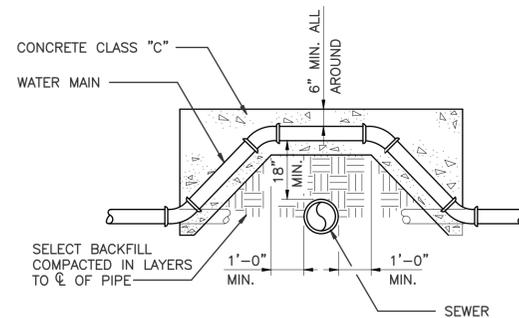
PARALLEL WATER AND SEWER DETAIL
NOT TO SCALE



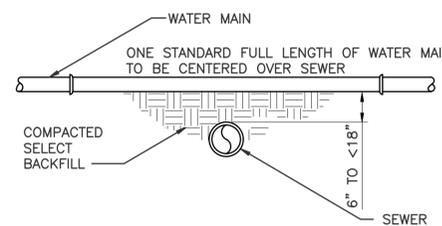
NOTES:

1. WHEN MANHOLE DEPTH IS LESS THAN 6 FEET, A FLAT REINFORCED CONCRETE COVER WITH AN ECCENTRIC OPENING AND CAPABLE OF H-20 WHEEL LOADS MAY BE USED.
2. MANHOLES SHALL BE CAPABLE OF WITHSTANDING H-20 WHEEL LOADS. ADDITIONAL REINFORCING AND/OR WALL THICKNESS MAY BE REQUIRED TO MEET THE H-20 WHEEL LOAD.

CONCRETE MANHOLE DETAIL
NOT TO SCALE



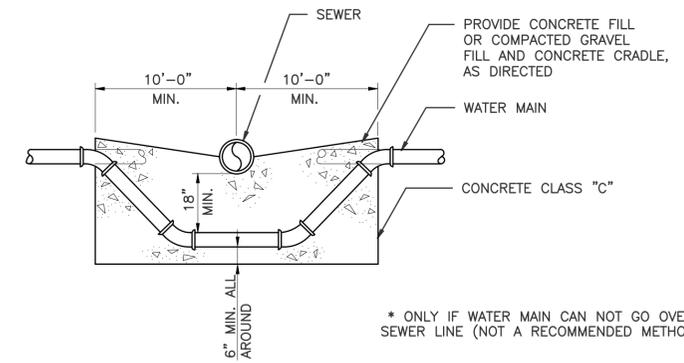
**DETAIL NO.1
WATER MAIN RELOCATION - ABOVE SEWER**
(PREFERRED METHOD)
NOT TO SCALE



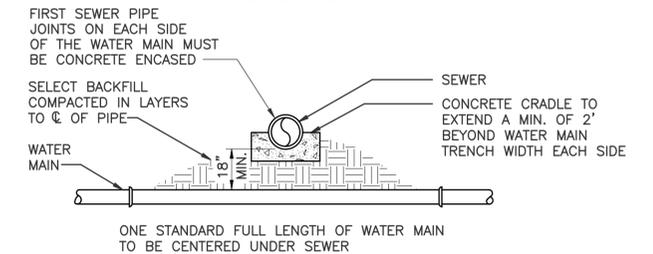
**DETAIL NO.2
WATER MAIN LESS THAN 18" ABOVE SEWER**
NOT TO SCALE

NOTES:

1. DETAILS NO.1 & NO.3 ALLOWABLE WATER PIPE DEFLECTIONS MAY BE USED TO ACCOMPLISH THE RELOCATIONS IN LIEU OF ELBOWS AND FITTINGS.
2. DETAILS NO.2, NO.3, & NO.4 THE SEWER PIPE SHALL BE CONSTRUCTED OR RECONSTRUCTED OF DUCTILE IRON PIPE OR PVC C900 PRESSURE PIPE WITH MECHANICAL JOINTS AND PRESSURE TESTED FOR AT LEAST 20' EACH SIDE OF WATER MAIN.



**DETAIL NO.3
WATER MAIN RELOCATION - BELOW SEWER***
NOT TO SCALE

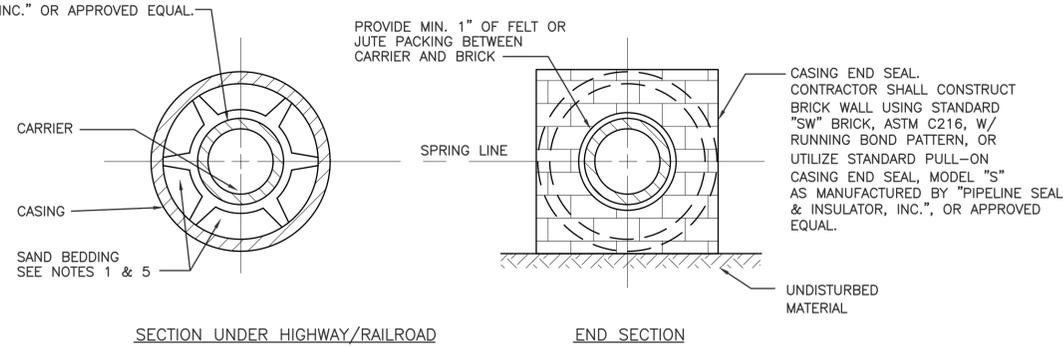


**DETAIL NO.4
WATER MAIN BELOW SEWER***
NOT TO SCALE

3. DETAILS NO.1, NO.2, NO.3, & NO.4 WATER MAIN TO BE RECONSTRUCTED SHALL BE PUSH-ON OR M.J. D.I. PIPE FOR A DISTANCE OF 10 FEET EACH SIDE OF THE CENTERLINE OF THE SEWER.
4. DETAIL NO.3 & NO.4 UNDER NO CIRCUMSTANCES SHALL THE SEWER BE RECONSTRUCTED ABOVE THE WATER MAIN.

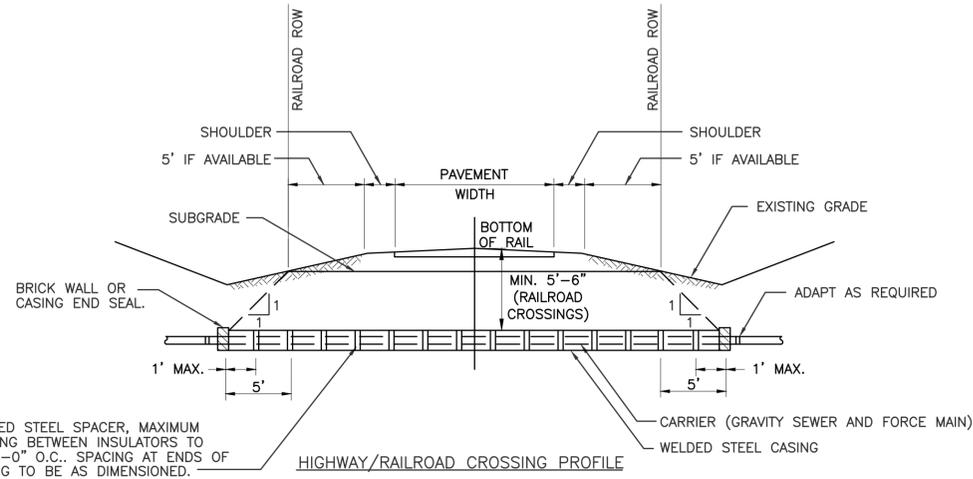
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PAINTED STEEL SPACER MODEL "A" AS MANUFACTURED BY "PIPELINE SEAL INSULATOR, INC." OR APPROVED EQUAL.



SECTION UNDER HIGHWAY/RAILROAD

END SECTION



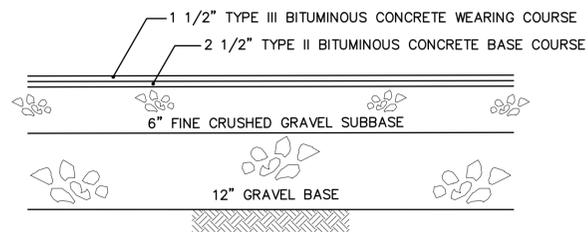
HIGHWAY/RAILROAD CROSSING PROFILE

NOTES:

- SAND BEDDING SHALL BE PLACED TO SPRING LINE OF CARRIER PIPE FOR GRAVITY SEWERS & SHALL ENCASE CARRIER PIPE FOR PRESSURE SYSTEMS.
- CASING TO BE INSTALLED AT SLOPE OF CARRIER.
- CARRIER TO BE CENTERED IN CASING.
- SINGLE COURSE OF BRICK TO BE USED IN CONSTRUCTION OF EACH WALL. WALL TO BE TIGHT AGAINST CASING TO PREVENT LOSS OF SAND OR INFILTRATION OF OUTSIDE MATERIAL.
- SAND OR "GRITS" (WITHOUT FINES) SHALL BE HYDRAULICALLY PLACED OR AIR-BLOWN INTO PLACE. CONTRACTOR SHALL TAKE PRECAUTIONS TO PREVENT CARRIER PIPES FROM FLOATING.
- THIS DETAIL PERTAINS TO ALL CROSSINGS LISTED IN THE HIGHWAY/RAILROAD CROSSING SCHEDULE.
- RAILROAD CROSSING COMPLETED BASED ON AREMA SPECIFICATIONS. SECTION 5.3 FOR PIPELINES CONVEYING NONFLAMMABLE SUBSTANCES

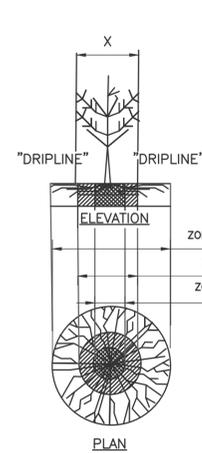
HIGHWAY/RAILROAD CROSSING DETAIL

NOT TO SCALE



BITUMINOUS CONCRETE PAVEMENT SECTION

NOT TO SCALE



TREE PROTECTION DETAIL

NOT TO SCALE

FENCING/ROOT PROTECTION

SNOW FENCING SHALL BE PROVIDED AND MAINTAINED AT DRIPLINE.

ENGINEER'S APPROVAL REQUIRED FOR USE/ACCESS WITHIN ZONE B. PERMISSION FOR USE/ACCESS REQUIRES SURFACE PROTECTION FOR ALL UNFENCED, UNPAVED SURFACES WITHIN ZONE B.

* SURFACE PROTECTION MEASURES

- MULCH LAYER, 6"-8" DEPTH
- 3/4" PLYWOOD
- STEEL PLATES

TRENCHING / EXCAVATION

ZONE A (CRITICAL ROOT ZONE)

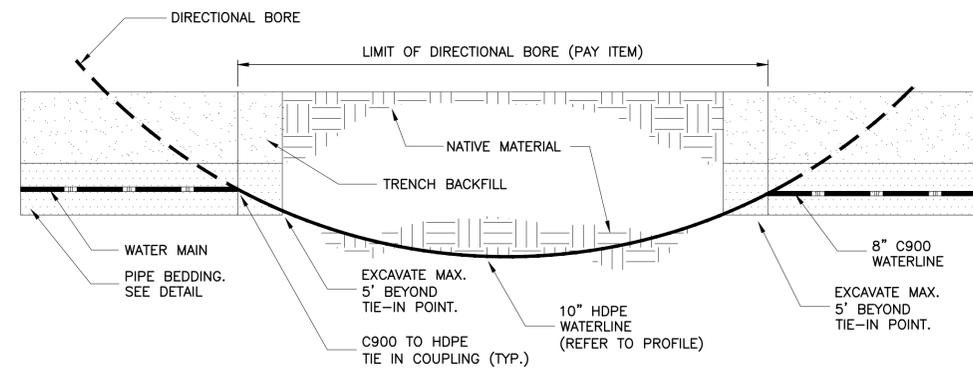
NO DISTURBANCE ALLOWED WITHOUT SITE-SPECIFIC INSPECTION AND APPROVAL OF METHODS TO MINIMIZE, ROOT DAMAGE. SEVERANCE OF ROOTS LARGER THAN 2" DIA REQUIRES ENGINEER'S APPROVAL. TUNNELING MAY BE REQUIRED TO INSTALL LINES 3'-0" BELOW GRADE OR DEEPER.

ZONE B (DRIPLINE)

OPERATION OF HEAVY EQUIPMENT AND/OR STOCKPILING OF MATERIALS SUBJECT TO ENGINEER'S APPROVAL. SURFACE PROTECTION* MEASURES REQUIRED. TRENCHING ALLOWED AS FOLLOWS: EXCAVATION BY HAND OR WITH HAND-DRIVEN TRENCHER MAY BE REQUIRED TO LIMIT TRENCH WIDTH. DO NOT DISTURB ZONE A, MAINTAIN 3/4 OR MORE OF ZONE B IN UNDISTURBED CONDITION. TUNNELING MAY BE REQUIRED FOR TRENCHES DEEPER THAN 3'-0".

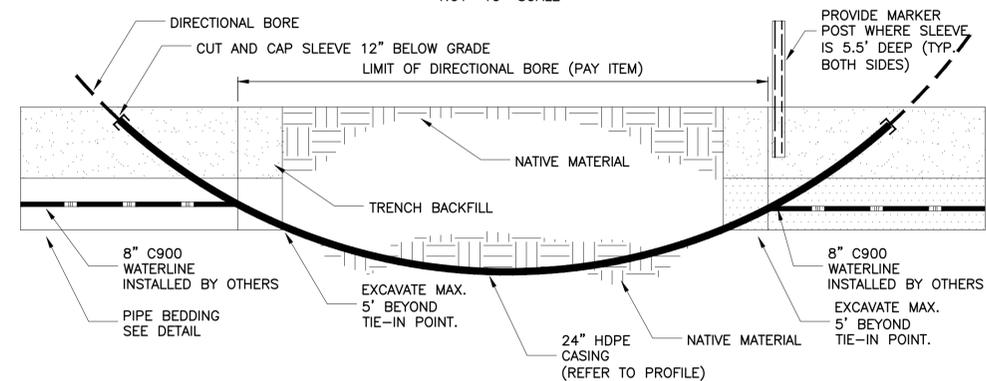
ZONE C (FEEDER ROOT ZONE)

OPERATION OF HEAVY EQUIPMENT AND/OR STOCKPILING OF MATERIALS SUBJECT TO ENGINEER'S APPROVAL. SURFACE PROTECTION* MEASURES MAY BE REQUIRED. TRENCHING WITH HEAVY EQUIPMENT ALLOWED AS FOLLOWS: MINIMIZE TRENCH WIDTH. MAINTAIN 3/4 OR MORE OF ZONE C IN UNDISTURBED CONDITION.



DIRECTIONAL BORING DETAIL

NOT TO SCALE



DIRECTIONAL BORING DETAIL FOR PIPE SLEEVE

NOT TO SCALE

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SHEET TITLE

JACK AND BORE AND
DIRECTIONAL DRILL
DETAILS

D&K PROJECT # 227947 PROJ. ENG. JBA

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DATE MAY 17, 2025

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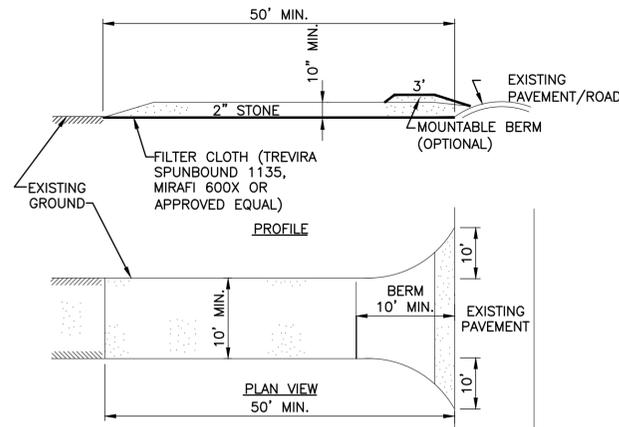
C58

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5/17/2025

SHEET: 63 of 64

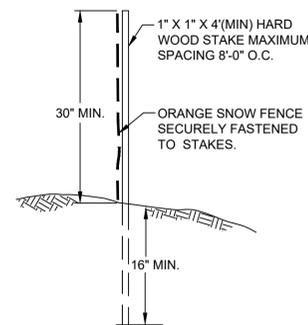
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60% DESIGN SET**

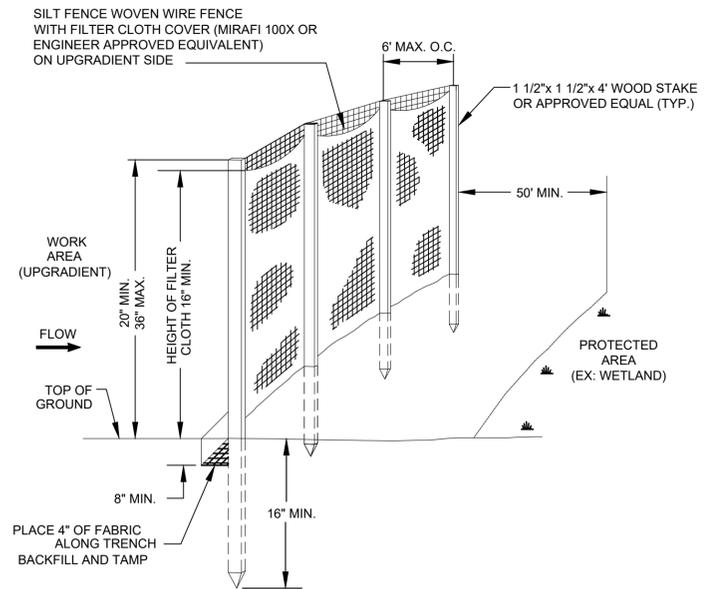


STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

1. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACEMENT OF STONE.
2. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
3. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN-OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
4. WASHING – WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
5. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.



PROJECT DEMARCATIION FENCE
NOT TO SCALE



TEMPORARY SILT FENCE BARRIER
NOT TO SCALE

GENERAL DESCRIPTION

TEMPORARY SILT FENCE BARRIER CONSISTING OF FILTER FABRIC ATTACHED TO SUPPORTING POSTS AND ENTRENCHED IN SOIL. INSTALLED ACROSS OR AT THE TOE OF A SLOPE TO INTERCEPT AND RETAIN SMALL AMOUNTS OF SEDIMENT FROM DISTURBED OR UNPROTECTED AREAS.

PURPOSE

1. FUNCTIONS PRIMARILY TO SLOW AND POND WATER AND ALLOW SOIL PARTICLES TO SETTLE. USE LIMITED TO AREAS WHERE OVERLAND SHEET FLOWS ARE EXPECTED. DO NOT USE ACROSS STREAMS, CHANNELS, SWALES, DITCHES OR OTHER DRAINAGE WAYS.
2. IS A SEDIMENT CONTROL PRACTICE, NOT AN EROSION CONTROL PRACTICE. INTENDED TO BE USED IN CONJUNCTION WITH OTHER PRACTICES THAT PREVENT OR CONTROL EROSION.

CONSIDERATIONS

- TEMPORARY SILT FENCE BARRIERS USED WHERE:
- MAXIMUM LENGTH OF SLOPE ABOVE THE BARRIER IS 100 FEET; AND
 - MAXIMUM GRADIENT ABOVE THE BARRIER IS 50 PERCENT (2:1); AND
 - CONTRIBUTING DRAINAGE AREA IS LESS THAN 1/4 ACRE PER 100 FEET OF BARRIER LENGTH; AND
 - IF ANY OF THESE CONDITIONS ARE EXCEEDED, OTHER MEASURES MAY BE NECESSARY

SPECIFICATIONS

1. INSTALL PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM.
2. INSTALL FOLLOWING CONTOUR OF THE LAND AS CLOSELY AS POSSIBLE.
3. SILT FENCE PLACED AT THE BOTTOM OF A SLOPE SHOULD BE SET AT LEAST 6 FEET FROM THE TOE TO ALLOW SPACE FOR SHALLOW PONDING AND MAINTENANCE ACCESS WITHOUT DISTURBING THE SLOPE.
4. EMBED FABRIC A MINIMUM OF 4 INCHES IN DEPTH AND 4 INCHES IN WIDTH IN TRENCH EXCAVATED INTO THE GROUND ALONG THE LINE OF POSTS AND UPGRADIENT FROM BARRIER. IF SITE CONDITIONS INCLUDE FROZEN GROUND, LEDGE, OR THE PRESENCE OF HEAVY ROOTS, EMBED BASE OF FABRIC WITH A MINIMUM THICKNESS OF 8 INCHES OF 3/4-INCH STONE.
5. BACKFILL TRENCH AND COMPACT SOIL OVER THE FILTER FABRIC.
6. SIZE AND ANCHOR SUPPORT POSTS ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS WITH MAXIMUM POST SPACING OF 6 FEET;
7. FILTER FABRIC TO BE A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, SPLICE FILTER CLOTH TOGETHER ONLY AT SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP (24 INCHES PREFERRED), AND STAPLE TO SUPPORT POST. IF METAL POSTS USED, WIRE-TIE FABRIC DIRECTLY TO THE POSTS WITH THREE DIAGONAL TIES.
8. SILT FENCE NOT TO BE STAPLED OR NAILED TO TREES.
9. FILTER FABRIC TO BE PERVIOUS SHEET OF PROPYLENE, NYLON, POLYESTER OR ETHYLENE YARN AND CERTIFIED BY THE MANUFACTURER OR SUPPLIER.
10. FILTER FABRIC TO CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0 DEGREES FAHRENHEIT TO 120 DEGREES FAHRENHEIT.
11. POSTS FOR SILT FENCE TO BE EITHER 2-INCH SQUARE WOOD OR 1.33 POUNDS PER LINEAR FOOT STEEL WITH A MINIMUM LENGTH OF 5 FEET. STEEL POSTS TO HAVE PROJECTIONS FOR FASTENING WIRE TO THEM. POSTS TO BE PLACED ON THE DOWNSLOPE SIDE OF THE FABRIC.
12. HEIGHT OF A SILT FENCE NOT TO EXTEND MORE THAN 36 INCHES ABOVE ORIGINAL GROUND SURFACE.
13. MANUFACTURED SILT FENCE SYSTEM WITH INTEGRAL POSTS MAY BE USED.
14. SILT FENCE TO BE INSTALLED WITH "SMILES" OR "J-HOOKS" TO REDUCE THE DRAINAGE AREA THAT ANY SEGMENT WILL IMPOUND. FLARE ENDS OF FENCE UPSLOPE.

MAINTENANCE REQUIREMENTS

1. INSPECT AND MAINTAIN IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
2. REMOVE SEDIMENT DEPOSITION, AT A MINIMUM, WHEN DEPOSITION ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FENCE, AND MOVE SO SEDIMENT NOT READILY TRANSPORTED BACK TOWARD THE SILT FENCE.
3. REPAIR SILT FENCE IMMEDIATELY IF THERE ARE ANY SIGNS OF EROSION OR SEDIMENTATION BELOW THEM. IF THERE ARE SIGNS OF UNDERCUTTING AT THE CENTER OR THE EDGES OF BARRIER, OR IMPOUNDING OF LARGE VOLUMES OF WATER BEHIND THEM, SILT FENCE BARRIERS TO BE REPLACED WITH NEW SILT FENCE.
4. IF SILT FENCE FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, REPLACE FABRIC PROMPTLY.
5. IF EVIDENCE OF END FLOW ON PROPERLY INSTALLED BARRIERS, EXTEND BARRIERS UPHILL OR CONSIDER REPLACING THEM WITH OTHER MEASURES, SUCH AS TEMPORARY DIVERSIONS AND SEDIMENT TRAPS.
6. USEFUL LIFE OF SILT FENCE IS TYPICALLY ONE SEASON. ON LONGER CONSTRUCTION PROJECTS, SILT FENCE TO BE REPLACED PERIODICALLY AS REQUIRED TO MAINTAIN EFFECTIVENESS.
7. AFTER SILT FENCE IS NO LONGER REQUIRED, REMOVE REMAINING SEDIMENT DEPOSITS, REGRADE AREA TO GRADES SHOWN ON THESE DRAWINGS, AND

REVISIONS	BY	DATE	NUMBER	REVISION DESCRIPTION

CLIENT NAME
TOWN OF
WAITSFIELD

PROJECT NAME
WAITSFIELD
COMMUNITY
WASTEWATER
SYSTEM

PROJECT ADDRESS
4144 MAIN STREET
WAITSFIELD, VERMONT 05673

SHEET TITLE

EPSC DETAILS

D&K PROJECT # 227947 PROJ. ENG. JBA

DRAWN BY EBS CHECKED BY NJS

DATE MAY 17, 2025

SHEET NUMBER

C59

SHEET: 64 of 64

NOT FOR CONSTRUCTION 5/17/2025