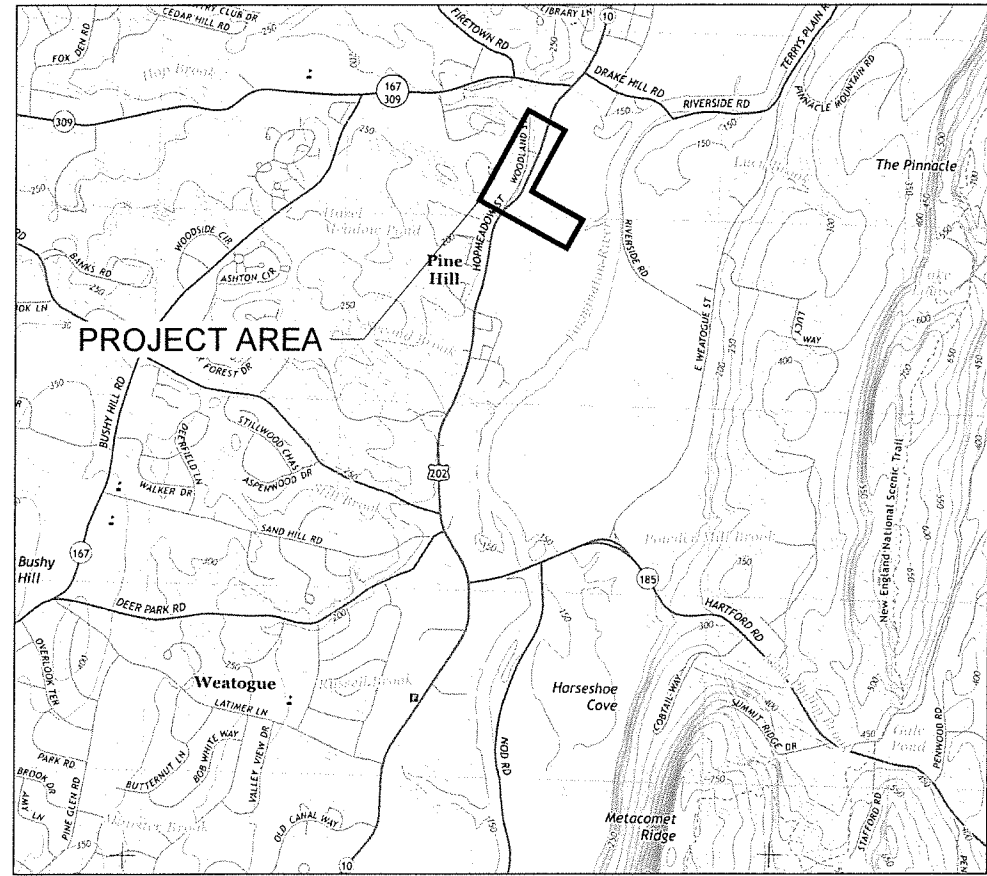


TOWN OF SIMSBURY STATE OF CONNECTICUT WATER POLLUTION CONTROL AUTHORITY WOODLAND STREET SEWER REPLACEMENT PROJECT

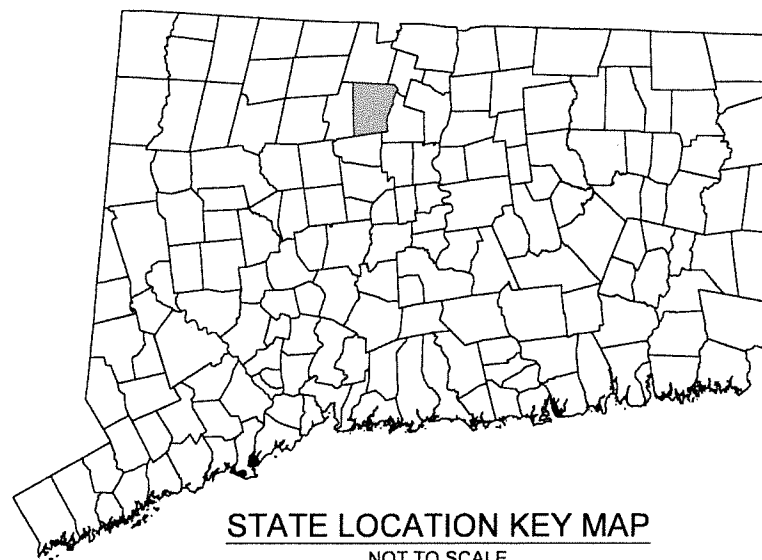
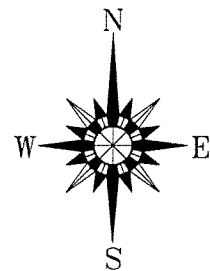
JUNE 11, 2021

MARIA CAPRIOLA - TOWN MANAGER
THOMAS ROY, P.E. - DIRECTOR OF PUBLIC WORKS
ANTHONY PIAZZA - WPCF SUPERINTENDENT



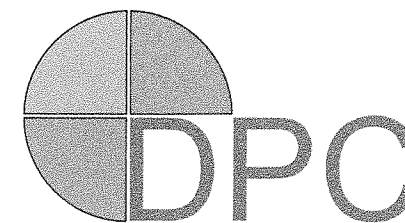
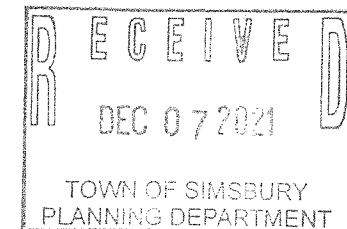
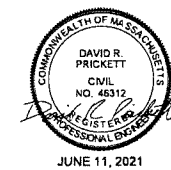
PROJECT SITE LOCATION MAP

SCALE: 1"=1000'



STATE LOCATION KEY MAP

NOT TO SCALE



DPC ENGINEERING, LLC

22 Northfield Road Longmeadow, MA 01106

PROJECT GENERAL NOTES AND INFORMATION

SHEET NO. DRAWING NO.

DRAWING INDEX

NO.	TITLE
1.	COVER
2.	ABBREVIATIONS, NOTES, LEGEND AND DRAWING INDEX
3.	HOPMEADOW & WOODLAND STREETS PLAN INDEX
4.	HOPMEADOW & WOODLAND STREETS STATION 0+00 TO 8+75
5.	HOPMEADOW STREET STATION 8+75 TO 20+00
6.	HOPMEADOW & WOODLAND STREETS STATION 0+00 TO 7+50
7.	WOODLAND STREET STATION 0+00 TO 5+30
8.	CROSS COUNTRY SEWER CONNECTION STATION 0+00 TO 12+00
9.	SUBSURFACE EXPLORATION BORING LOGS
10.	DETAILS
11.	DETAILS
12.	DETAILS

GENERAL CIVIL NOTES:

1. THE CONTRACTOR SHALL CALL "DIG SAFE" AT (888) 344-7233 AT LEAST 72 HOURS, SATURDAYS, SUNDAYS, AND HOLIDAYS EXCLUDED, PRIOR TO EXCAVATING AT ANY LOCATION. A COPY OF THE "DIG SAFE" PROJECT REFERENCE NUMBER(S) SHALL BE GIVEN TO THE OWNER PRIOR TO EXCAVATION.
2. LOCATIONS OF EXISTING PIPES, CONDUITS, UTILITIES, FOUNDATIONS AND OTHER UNDERGROUND OBJECTS ARE NOT WARRANTED TO BE CORRECT AND THE CONTRACTOR SHALL HAVE NO CLAIM ON THAT ACCOUNT SHOULD THEY BE OTHER THAN SHOWN.
3. TEST PITS TO LOCATE EXISTING UTILITIES SHALL BE CONDUCTED BY THE CONTRACTOR AS REQUIRED TO COMPLETE THE WORK OR REQUESTED BY THE ENGINEER/OWNER. IF NO TEST PIT PAYMENT ITEM IS PROVIDED WITHIN THE CONTRACT DOCUMENTS, TEST PITS TO LOCATE EXISTING UTILITIES SHALL BE INCIDENTAL TO CONSTRUCTION OF THE PROJECT.
4. STONE WALLS, FENCES, MAIL BOXES, SIGNS, CURBS, LIGHT POLES, ETC. SHALL BE REMOVED AND REPLACED AS NECESSARY TO PERFORM THE WORK. UNLESS OTHERWISE INDICATED, ALL SUCH WORK SHALL BE INCIDENTAL TO CONSTRUCTION OF THE PROJECT.
5. ALL PAVEMENT DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS. ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND PAYMENT LIMITS SHALL BE RESTORED AT NO ADDITIONAL COST TO THE OWNER.
6. THE CONTRACTOR SHALL MAINTAIN SIDE SLOPES AND DRAINAGE SWALES DURING CONSTRUCTION TO PREVENT PONDING AND EROSION. THE CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES, AND EQUIPMENT ON DRAINAGE STRUCTURES OR WITHIN THE DISTANCE AS DEFINED BY THE CONSERVATION COMMISSION OR 100 FEET OF WETLANDS, WHICHEVER IS GREATER.
7. THE CONTRACTOR SHALL GRADE PROPOSED SLOPES TO MEET EXISTING SLOPES WHERE SHOWN ON PLANS, IN ACCORDANCE WITH THE MINIMUM AND MAXIMUM SLOPES SPECIFIED.
8. THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL DEVICES BEFORE BEGINNING OTHER WORK ON SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND AS NECESSARY REPLACING ALL EROSION CONTROL DEVICES THROUGHOUT THE DURATION OF THE PROJECT. ALL EROSION CONTROL DEVICES SHALL BE REVIEWED AFTER EACH RAIN EVENT WITH MODIFICATIONS COMPLETED AS NECESSARY TO MAINTAIN THE EROSION CONTROL DEVICES.
9. THE CONTRACTOR SHALL NOTIFY THE LOCAL UTILITY COMPANIES A MINIMUM OF 72 HOURS PRIOR TO EXCAVATING NEAR EXISTING UTILITIES (ABOVE OR BELOW GROUND).
10. CONCRETE CRADLES OR ARCHES SHALL BE CONSTRUCTED WHERE SHOWN ON THE DRAWINGS OR WHERE REQUIRED BY THE ENGINEER. UNLESS OTHERWISE INDICATED, CONCRETE USED FOR PIPE ANCHOR BLOCKS, BACKING, PIPE CRADLES, ARCHES, AND FILL SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.
11. CONCRETE THRUST BLOCKS, ANCHOR BLOCKS, OR APPROVED JOINT RESTRAINT METHODS SHALL BE PROVIDED FOR PRESSURE PIPE SYSTEMS (WATER MAINS, FORCE MAINS, SERVICE WATER MAINS, ETC.) WHERE ANY BENDS, TEES, PLUGS, OR WYES ARE INSTALLED. FOR THRUST BLOCK DETAILS AND MINIMUM BLOCK BEARING AREAS, SEE DETAILS.
12. TRENCHES MAY BE EXCAVATED WIDER THAN THE 'LIMIT OF EXCAVATION FOR EARTH EXCAVATION' ABOVE THE 'LINE OF NARROW TRENCH LIMIT.' ANY SUCH ADDITIONAL EXCAVATION SHALL BE AT THE CONTRACTOR'S EXPENSE AND SHALL NOT BE MEASURED FOR PAYMENT.
13. BELOW THE 'LINE OF NARROW TRENCH LIMIT' THE TRENCH SHOULD NOT BE EXCAVATED BEYOND THE TRENCH WIDTH 'W'. IF MATERIAL IS LOOSENED OR REMOVED BEYOND THE ABOVE-MENTIONED LIMITS, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE CRUSHED STONE FOR THE FULL WIDTH OF THE TRENCH AT NO ADDITIONAL COST TO THE OWNER.
14. SHEETING TO BE LEFT IN PLACE SHALL BE USED WHERE SHOWN ON THE DRAWINGS OR WHERE REQUIRED BY THE ENGINEER. IT SHALL BE LEFT IN PLACE BELOW A LINE 12 INCHES ABOVE THE TOP OF THE PIPE/STRUCTURE UNLESS OTHERWISE REQUIRED BY THE ENGINEER.
15. PROTECTION OF WATER SUPPLIES - WHENEVER A SEWER MUST CROSS UNDER A WATER MAIN, THE SEWER SHALL BE LAID AT SUCH AN ELEVATION THAT THE TOP OF THE SEWER IS A MINIMUM OF 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN. WHEN THE ELEVATION OF THE SEWER CANNOT BE VARIED TO MEET THE ABOVE REQUIREMENT, THE WATER MAIN SHALL BE RELOCATED BY THE CONTRACTOR AS REQUIRED BY THE ENGINEER TO PROVIDE THIS SEPARATION OR THE CONTRACTOR SHALL CONSTRUCT THE NEW SEWER OF CLASS 150 PRESSURE PIPE FOR A MINIMUM DISTANCE OF 10 FEET ON EACH SIDE OF THE WATER MAIN. ONE FULL LENGTH OF CLASS 150 PRESSURE PIPE SEWER SHALL BE CENTERED ON THE WATER MAIN AS MUCH AS POSSIBLE. THE SEWER CONSTRUCTED OF THE PRESSURE PIPE MUST BE PRESSURE TESTED TO ASSURE WATER TIGHTNESS AND THE INTERIOR OF THE PIPE SHALL BE COATED WITH THE SEWER PROTECTION COATING FOR DUCTILE IRON PIPES.
16. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS AND COORDINATE ALL THE DIFFERENT CONSTRUCTION DISCIPLINES FOR LOCATION, SIZE, SERVICEABILITY, SUPPORT SYSTEMS, CONNECTIONS (PIPING, ELECTRICAL, INSTRUMENTATION, ETC.), INCIDENTALS AND ALL OTHER COMPONENTS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM MEETING THE APPROVAL OF THE ENGINEER. IF ONE SYSTEM IS SHOWN ON ONE SET OF DISCIPLINE DRAWINGS/SPECIFICATIONS BUT THE SAME SYSTEM IS MISSING OR INCOMPLETE ON ANOTHER SET OF DISCIPLINE DRAWINGS/SPECIFICATIONS THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER, SHALL PROVIDE ALL NECESSARY EQUIPMENT, MATERIALS, LABOR, SUPPORT SYSTEMS, CONNECTIONS (PIPING, ELECTRICAL, INSTRUMENTATION, ETC.), COORDINATION, INCIDENTALS AND ANY AND ALL OTHER COMPONENTS REQUIRED FOR FURNISHING AND INSTALLING THE SYSTEM COMPLETE AS WELL AS PROVIDING A COMPLETE AND FUNCTIONAL SYSTEM MEETING THE APPROVAL OF THE ENGINEER.

GENERAL SITE GRADING NOTES:

1. ALL ROAD AND PARKING AREA SURFACES SHALL PITCH A MINIMUM OF 1/4" PER FOOT UNLESS OTHERWISE NOTED. REFER TO DRAWING FOR DETAILS.
2. ALL AREAS THAT ARE EXCAVATED, FILLED OR OTHERWISE DISTURBED BY THE CONTRACTOR SHALL BE LOAMED, GRADED, LIMED, FERTILIZED, SEEDED AND MULCHED, UNLESS OTHERWISE NOTED. AT A MINIMUM, THE TOP 6 INCHES OF SOIL SHALL BE LOAM.
3. THE CONTRACTOR SHALL NOT TRACK OR SPILL EARTH, DEBRIS OR OTHER CONSTRUCTION MATERIAL ON PUBLIC OR PRIVATE STREETS. THE CONTRACTOR SHALL PROVIDE ANTI TRACKING PADS AT THE ENTRANCE TO THE CONSTRUCTION SITE AND SHALL BE RESPONSIBLE FOR THE IMMEDIATE ASSOCIATED CLEAN UP OF ANY SPILLED OR TRACKED DEBRIS.
4. ALL CATCH BASINS, MANHOLES, VALVE BOXES, VALVE PITS, CONCRETE STRUCTURES AND OTHER BURIED FACILITIES WITH SURFACE ACCESS SHALL BE ADJUSTED TO MATCH FINAL GRADES, UNLESS OTHERWISE INDICATED.
5. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS AND EXCESS EXCAVATED MATERIAL FROM WITHIN THE CONSTRUCTION LIMIT OF WORK. IF THE OWNER DESIRES TO KEEP THE MATERIAL, THE CONTRACTOR SHALL RELOCATE THE MATERIAL TO A SUITABLE SITE LOCATED WITHIN THE CONFINES OF THE OWNERS JURISDICTION AT NO ADDITIONAL COST TO THE OWNER. IF THE OWNER DOES NOT DESIRE TO KEEP THE MATERIAL THE CONTRACTOR SHALL RELOCATE THE MATERIAL TO A SUITABLE SITE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE TRANSPORTATION AND RELOCATION OF THE MATERIAL SHALL BE IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
6. WHERE EXISTING PAVEMENT IS REMOVED AND REPLACED, MATCH EXISTING GRADES. COORDINATE FINE GRADING WITH THE ENGINEER.

GENERAL SITE LAYOUT NOTES:

1. REFER TO THE SITE PLANS FOR ADDITIONAL LAYOUT INFORMATION.
2. THE LOCATION AND LIMITS OF ALL ON-SITE WORK AND STORAGE AREAS SHALL BE REVIEWED/COORDINATED WITH, AND ACCEPTABLE TO, THE OWNER AND ENGINEER. THE CONTRACTOR SHALL LIMIT HIS ACTIVITIES TO THESE AREAS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ESTABLISHING AND RESETTING ALL EXISTING PROPERTY MONUMENTATION DISTURBED BY HIS OPERATIONS. THIS WORK SHALL BE DONE BY A LAND SURVEYOR REGISTERED IN THE STATE OF CONNECTICUT AT NO ADDITIONAL COST TO THE OWNER.
4. WRITTEN DIMENSIONS SHALL PREVAIL, DO NOT SCALE DISTANCES FROM THE DRAWINGS. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.

GENERAL SITE PIPING NOTES:

1. ALL PIPE LINES SHALL SLOPE UNIFORMLY BETWEEN ELEVATIONS INDICATED ON THE DRAWINGS. NO CRESTS OR SAGS WITHIN THE PIPING SHALL BE PERMITTED. ALL HORIZONTAL AND VERTICAL BENDS IN PRESSURIZED LINES SHALL BE SUITABLY RESTRAINED WITH THRUST BLOCKS OR RETAINER GLANDS. SEE DETAIL DRAWINGS FOR THRUST BLOCK DETAILS. PROVIDE ALL BENDS (HORIZONTAL AND VERTICAL) AS REQUIRED TO MEET THE GRADES AND ALIGNMENT INDICATED ON THE DRAWINGS. **NOTEWELL:** NOT ALL BENDS AND FITTINGS ARE SHOWN. BENDS AND FITTINGS REQUIRED FOR THE ALIGNMENT SHOWN SHALL BE INCIDENTAL TO CONSTRUCTION OF THE PROJECT AND PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
2. ALL BURIED CONNECTIONS TO STRUCTURES SHALL HAVE SLEEVE TYPE FLEXIBLE CONNECTIONS APPROXIMATELY 4 FEET FROM THE STRUCTURES WHETHER OR NOT SHOWN ON DRAWINGS. ALL SLEEVE TYPE COUPLINGS ON PRESSURE LINES SHALL BE RESTRAINED. **NOTEWELL:** NOT ALL COUPLINGS ARE SHOWN, COUPLINGS REQUIRED FOR THE ALIGNMENT SHOWN SHALL BE INCIDENTAL TO CONSTRUCTION OF THE PROJECT AND PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
3. PROVIDE CAST IN PLACE WALL PIPES/PIPE SLEEVES FOR ALL PIPE PENETRATIONS MADE THROUGH NEW CONCRETE FOUNDATIONS, WALLS AND SLABS. ALL WALL SLEEVES SHALL HAVE INTEGRAL WATERSTOPS. SEE PROCESS, MECHANICAL DRAWINGS FOR LOCATIONS OF PENETRATIONS. SEE DETAIL DRAWINGS.
4. A MINIMUM OF 5 FEET OF COVER IS REQUIRED ON ALL LIQUID CARRYING PIPES. INSULATION SHALL BE USED WHERE DEPTH OF COVER IS LESS THAN 5 FEET.
5. MANHOLES SHALL BE A MINIMUM OF 4 FEET IN DIAMETER. THE TOP OF MANHOLE FRAMES SHALL BE SET FLUSH WITH FINISH GRADE, UNLESS OTHERWISE NOTED ON DRAWINGS.
6. PIPES WITHIN VALVE PITS SHALL BE SUPPORTED A MINIMUM OF 12-INCHES ABOVE THE BOTTOM OF THE STRUCTURE ON ADJUSTABLE PIPE SADDLE SUPPORTS, UNLESS OTHERWISE INDICATED. ALL PIPE SUPPORTS SHALL BE OF STAINLESS STEEL CONSTRUCTION.
7. COMPACTION TESTING SHALL BE PERFORMED BY THE CONTRACTOR AND ANY SETTLEMENT OCCURRING WITHIN ONE YEAR OF FINAL COMPLETION OF THE WORK SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST.
8. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
9. WHERE NEW PIPING IS TO BE CONNECTED TO EXISTING PIPING, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ADAPTERS, FITTINGS, AND ADDITIONAL PIPE AS REQUIRED TO COMPLETE THE CONNECTION. CONTRACTOR SHALL VERIFY LOCATION, ELEVATION, ORIENTATION AND MATERIAL OF CONSTRUCTION. TEST PITS SHALL BE USED AS REQUIRED.
10. ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE UNLESS OTHERWISE NOTED ON THE DEMOLITION PLAN OR REQUIRED BY THE ENGINEER.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL DEMOLITION MATERIALS.
12. ALL STRUCTURES AND PIPELINES LOCATED ADJACENT TO ANY TRENCH EXCAVATION SHALL BE PROTECTED AND FIRMLY SUPPORTED BY THE CONTRACTOR UNTIL THE TRENCH IS BACKFILLED. DAMAGE TO ANY SUCH STRUCTURES CAUSED BY OR RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. ALL UTILITIES REQUIRING REPAIR, RELOCATION OR ADJUSTMENT BECAUSE OF CONTRACTOR'S CONSTRUCTION ACTIVITIES ON THE PROJECT SHALL BE COORDINATED THROUGH THE OWNER AND UTILITY COMPANY.
13. ANY ELECTRICAL CONDUIT RUNS AND UTILITIES SHOWN ON THE CIVIL AND MECHANICAL DRAWINGS ARE FOR INFORMATIONAL AND DISCIPLINE COORDINATION PURPOSES. REFER TO THE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

EXISTING CONDITIONS GENERAL NOTES:

1. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND MAY NOT BE COMPLETE. NO GUARANTEE IS MADE THAT UTILITIES OR STRUCTURES WILL BE ENCOUNTERED WHERE SHOWN OR THAT ALL UNDERGROUND UTILITIES AND STRUCTURES ARE SHOWN. ALL LOCATIONS AND SIZES OF EXISTING UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD WITH TEST PITS AS REQUIRED PRIOR TO BEGINNING CONSTRUCTION OF NEW FACILITIES OR PIPING. THE CONTRACTOR SHALL REALIGN NEW PIPE LOCATIONS AS REQUIRED TO CONFORM TO EXISTING LINES AND AS APPROVED BY THE ENGINEER.
2. DISPOSAL OF ASBESTOS SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
3. PROPERTY LINE INFORMATION, TOPOGRAPHIC INFORMATION, EDGE OF PAVEMENT, UTILITY POLE LOCATIONS, AND LOCATIONS OF EXISTING ABOVE GROUND STRUCTURES WERE TAKEN FROM AVAILABLE MAPPING PROVIDED BY THE OWNER IN CONJUNCTION WITH RECORD DRAWINGS AND SURVEY INFORMATION PROVIDED BY THE TOWN OF SIMSBURY. THE INFORMATION IS PROVIDED FOR INFORMATIONAL AND COORDINATION PURPOSES, NO GUARANTEES ON THE ACCURACY OF SAID INFORMATION IS PROVIDED BY THE ENGINEER.
4. EXISTING UNDERGROUND UTILITY INFORMATION, PIPE SIZES, PIPE TYPES, AND LOCATIONS WERE TAKEN FROM AVAILABLE MAPPING PROVIDED BY THE OWNER AND THE LOCAL UTILITY COMPANIES IN CONJUNCTION WITH DETAILED FIELD MARKINGS PROVIDED BY THE LOCAL UTILITY COMPANIES. THE INFORMATION IS PROVIDED FOR INFORMATIONAL AND COORDINATION PURPOSES, NO GUARANTEES ON THE ACCURACY OF SAID INFORMATION IS PROVIDED BY THE ENGINEER.

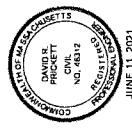
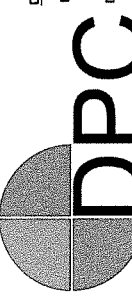
TYPICAL ABBREVIATIONS

ABR	ANOXIC BASIN RECYCLE	DI	DUCTILE IRON PIPE	OHE	OVERHEAD ELECTRICAL	PW	PLANT WATER	T	TELEPHONE
AC	ASBESTOS CEMENT	DR	DRAIN	OHW	OVERHEAD WIRES	RCP	REINFORCED CONCRETE PIPE	UD	UNDER DRAIN
CB	CATCH BASIN	E	ELECTRIC	OUT	OUTFALL	RGS	RIGID GALVANIZED STEEL	UDC	UNDER DRAIN COLLECTOR
CMH	CONTAINMENT MANHOLE	EFF	EFFLUENT	INF	INFLUENT SEWER	S	SEWER	UGE	UNDERGROUND ELECTRIC
CHM	CHEMICAL FEED CONDUIT	FE	FINAL EFFLUENT	INV	INVERT ELEVATION	SAM	SAMPLER LINE CONDUIT	VC	VITRIFIED CLAY
CI	CAST IRON PIPE	FM	FORCE MAIN	MH	MANHOLE	SD	STORM DRAIN	W	WATER
CL	CENTER LINE	FRP	FIBERGLASS REINFORCED	MTF	MEMBRANE TANK FEED	SL	SLUDGE	XFMR	TRANSFORMER
CW	CITY WATER	G	GAS	PTE	PRELIMINARY TREATMENT	SMH	SEWER MANHOLE	+	DEGREES (ANGLE)
CC	CENTER ON CENTER	GS	GALVANIZED STEEL PIPE	MTR	MEMBRANE TANK RECYCLE	SS	STAINLESS STEEL PIPE	±	PLUS OR MINUS
DMH	DRAIN MANHOLE	NIC	NOT IN CONTRACT	PVC	POLYVINYL CHLORIDE PIPE	SUP	SUPERNATANT		

DESCRIPTION	EXISTING	PROPOSED
SANITARY SEWER	S	8"S PVC
FORCE MAIN	FM	6"FM DI
WATER MAIN	W	6"W DI
TEMPORARY WATER		4"W
STORM DRAIN	D	18"D RCP
GAS	G	4"G
ELECTRIC	E	E
TELEPHONE		T
HOUSE CONNECTION		6" HOUSE CONN (TYP)
GRINDER PUMP	GP	GP
SANITARY SEWER MANHOLE	SMH	SMH
STORM DRAIN MANHOLE	DMH	DMH
ELECTRICAL MANHOLE	EMH	EMH
TELEPHONE MANHOLE	TMH	TMH
AIR RELEASE VALVE MANHOLE	ARMH	ARMH
FORCE MAIN CLEANOUT MANHOLE	FMMH	FMMH
CLEANOUT	CO	CO
CATCH BASIN	CB	CB
CATCH BASIN (CURB INLET)		
HYDRANT	H	H
TEMPORARY HYDRANT		
GATE VALVE		
CHECK VALVE		
CURB STOP		
BUTTERFLY VALVE		
BALL VALVE		
REDUCER		
CAP OR PLUG		
GAS GATE VALVE		
UTILITY POLE		
GUY POLE		
LIGHT POST		
EDGE OF PAVEMENT		
EDGE OF UNPAVED ROAD		
CURB		
SIDEWALK		
RAILROAD		
STONE WALL		
RETAINING WALL	RET WALL	RET WALL
FENCE	X	
INDIVIDUAL DECIDUOUS TREE		
INDIVIDUAL EVERGREEN TREE		
TREE LINE		
SURVEY MARKER		
PROPERTY LINE		
EASEMENT LINE		
LIMIT OF WORK		
APPROX. LIMIT OF REFUSE		
SPOT ELEVATIONS	100.2	101.5
CONTOUR LINES	56	56
DEPRESSION CONTOUR LINES		
HOUSE NUMBER	#35	
FLOOR ELEVATION	FL=56.7	
SILL ELEVATION	S=56.7	
WETLAND		
WETLAND FLAGS	1	
RIP RAP		
GUARD POST	△	▲
BOLLARD	○B	●B
SIGN	T	
BENCH MARK	+	
PERCOLATION TEST	PT-1	PT-1
TEST PIT	TP-1	TP-1
BORING	B-1	B-3
PROBE	P-1	P-1
GROUNDWATER MONITORING WELL	GW-1	GW-1
AUGER	A-1	A-1
HAY BALES		
ROCK OUTCROP		
DRAINAGE DITCH / SWALE		

NOTE: ITEMS SHOWN IN THE LEGEND MAY NOT BE PRESENT IN THESE PLANS

DPC ENGINEERING, LLC
22 Northfield Road
Hopmeadow, MA 01106
(413) 867-4310
(413) 867-1030
DPCENGINEERING.COM



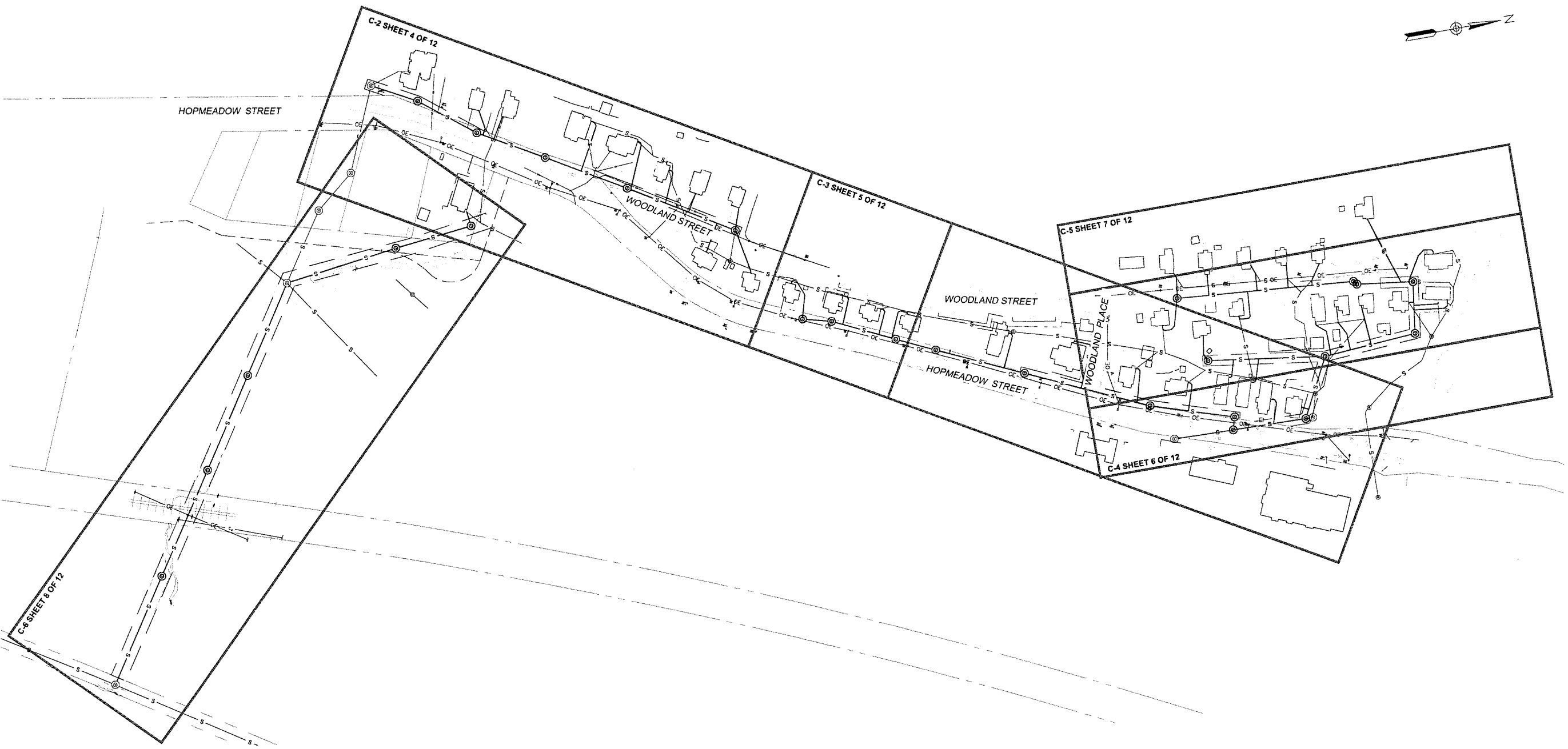
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GENERAL NOTES & DRAWING INDEX

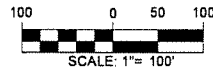
WOODLAND STREET
SEWER REPLACEMENT
PROJECT
WATER POLLUTION CONTROL AUTHORITY
SIMSBURY, CONNECTICUT

SCALE: AS NOTED
SCALE SHEET SIZE: 22x34
JOB NO.:
DATE: JUNE 11, 2021
SHEET: 7 OF 12

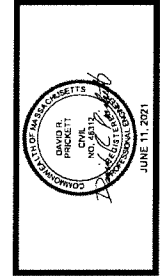
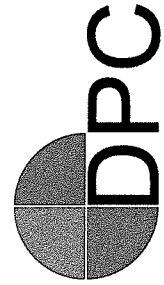
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PLAN - HOPMEADOW & WOODLAND STREET SHEET INDEX
 HORIZONTAL SCALE: 1" = 100'



DPC ENGINEERING, LLC
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 Longmeadow, MA 01106
 (413) 967-4310
 (413) 967-4038
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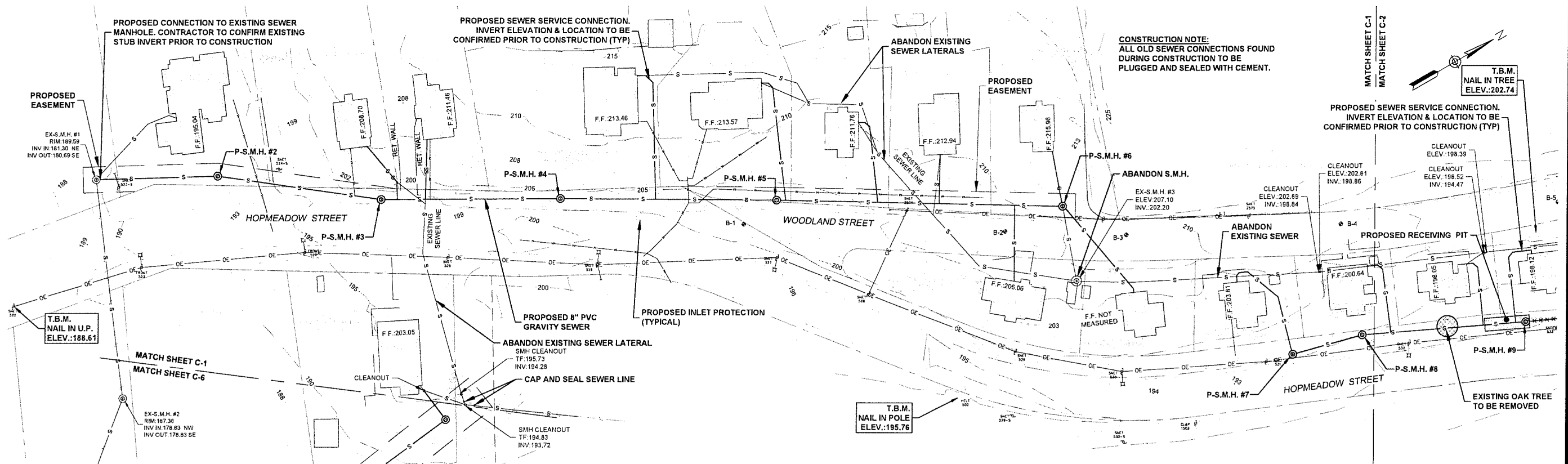


DATE	DESCRIPTION	REV.	DATE

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DESIGNED BY:	DRP	ISSUED FOR:	REVIEW
CHECKED BY:	DRP		
APPROVED BY:	DRP		

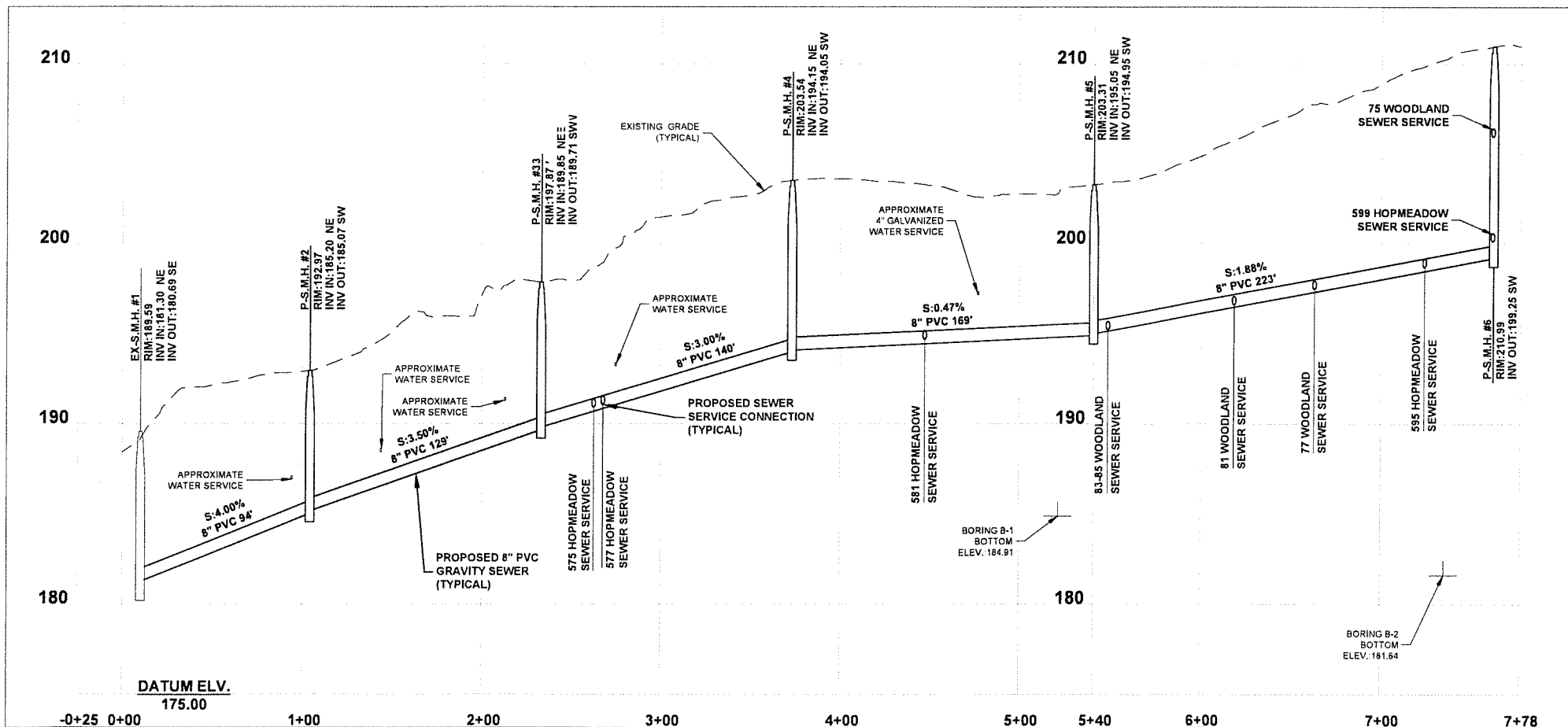
**WOODLAND STREET
 SEWER REPLACEMENT
 PROJECT**
 WATER POLLUTION CONTROL AUTHORITY
 SIMSBURY, CONNECTICUT

SCALE: AS NOTED
 SCALE SHEET SIZE: 22x34
 JOB NO.:
 DATE: JUNE 11, 2021
 SHEET: 3 OF 12



PLAN - HOPMEADOW & WOODLAND STREET SEWER

HORIZONTAL SCALE: 1" = 40'



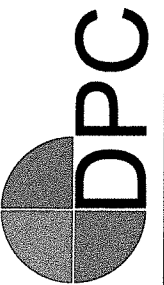
PROFILE - HOPMEADOW & WOODLAND STREET SEWER

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

NOTES:

1. PROFILES ARE CUT ALONG CENTER LINE OF PROPOSED SEWER.
2. SEWER LATERAL INFORMATION IS BASED ON THE CARDS AND RECORD INFORMATION PROVIDED BY THE TOWN OF SIMSBURY.
3. CONTRACTOR VERIFY EXACT LOCATION AND DEPTH OF ALL CROSSING UTILITIES.
4. EXISTING SEWER LATERAL LOCATIONS TO BE VERIFIED USING CCTV INSPECTION PRIOR TO CONSTRUCTION.

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22 Northfield Road
Longmeadow, MA 01106
(413) 587-4310
(413) 587-1030
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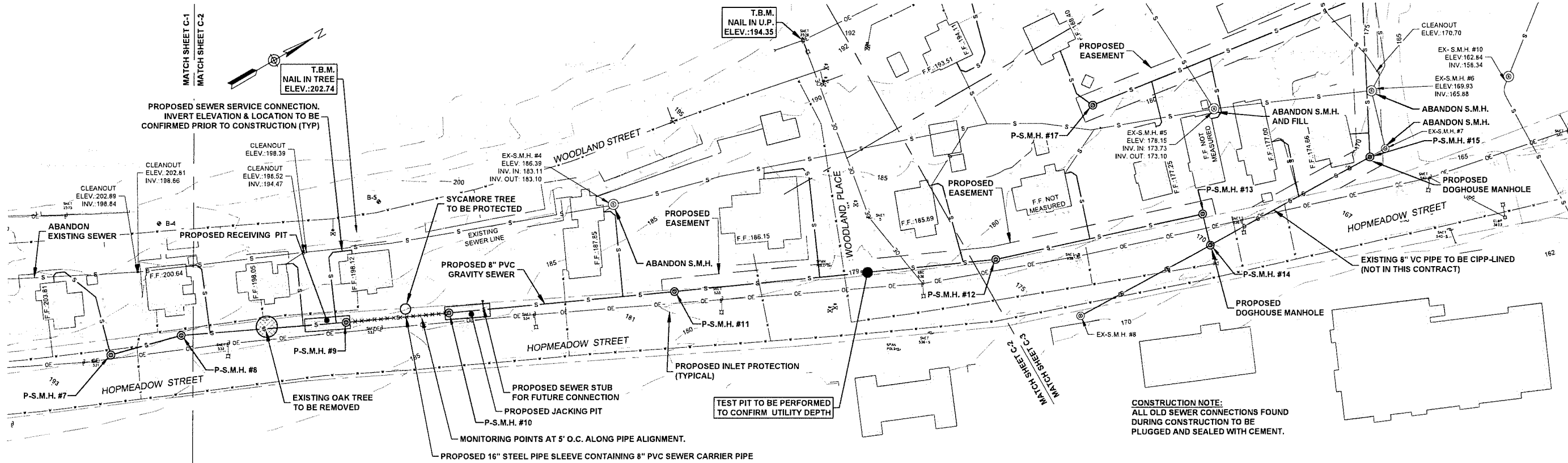


DATE:	
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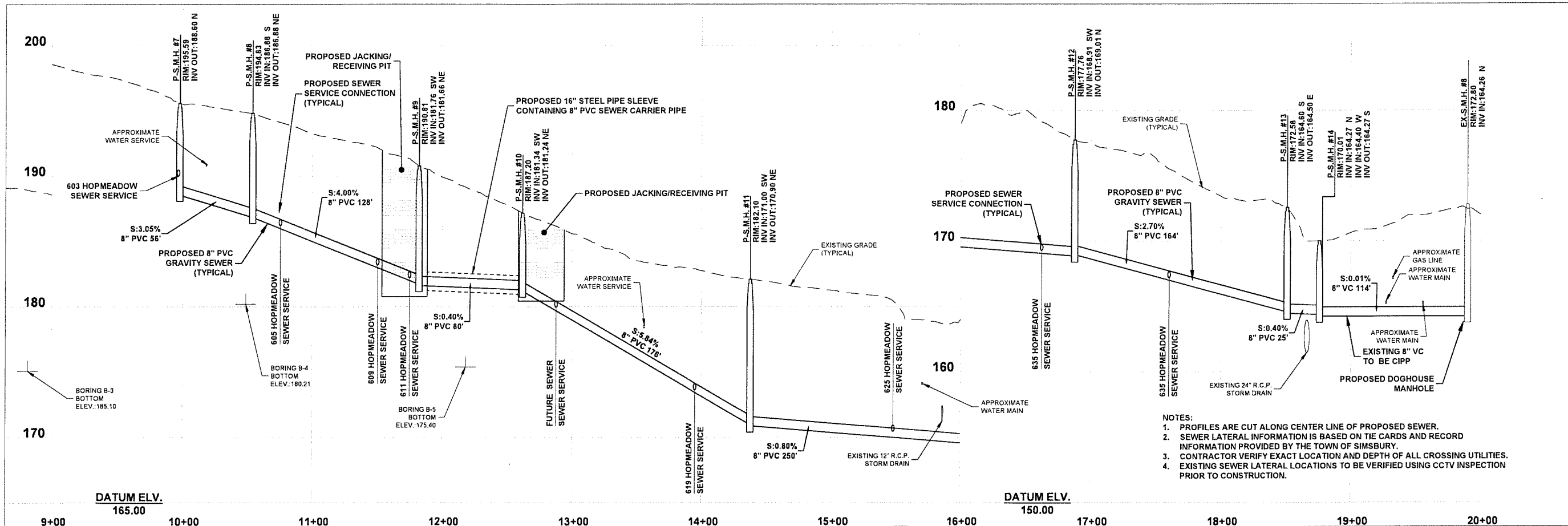
**HOPMEADOW & WOODLAND
STREETS STATION 0+00 TO 8+75**

WOODLAND STREET
SEWER REPLACEMENT
PROJECT
WATER POLLUTION CONTROL AUTHORITY
SIMSBURY, CONNECTICUT

SCALE: AS NOTED
SCALE SHEET SIZE: 22X34
JOB NO.:
DATE: JUNE 11, 2021
SHEET: 4 OF 12



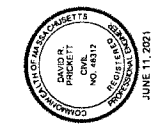
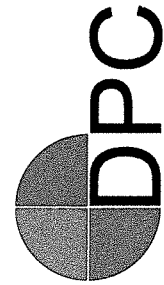
PLAN - HOPMEADOW STREET
HORIZONTAL SCALE 1" = 40'



PROFILE - HOPMEADOW STREET
HORIZONTAL SCALE 1" = 40'
VERTICAL SCALE 1" = 4'

- NOTES:
1. PROFILES ARE CUT ALONG CENTER LINE OF PROPOSED SEWER.
 2. SEWER LATERAL INFORMATION IS BASED ON TIE CARDS AND RECORD INFORMATION PROVIDED BY THE TOWN OF SIMSBURY.
 3. CONTRACTOR VERIFY EXACT LOCATION AND DEPTH OF ALL CROSSING UTILITIES.
 4. EXISTING SEWER LATERAL LOCATIONS TO BE VERIFIED USING CCTV INSPECTION PRIOR TO CONSTRUCTION.

DPC ENGINEERING, LLC
22 Northfield Road
Longmeadow, MA 01106
(413) 867-6310
(413) 867-0030
DPCENGINEERING.COM



DATE	DESCRIPTION	REV.

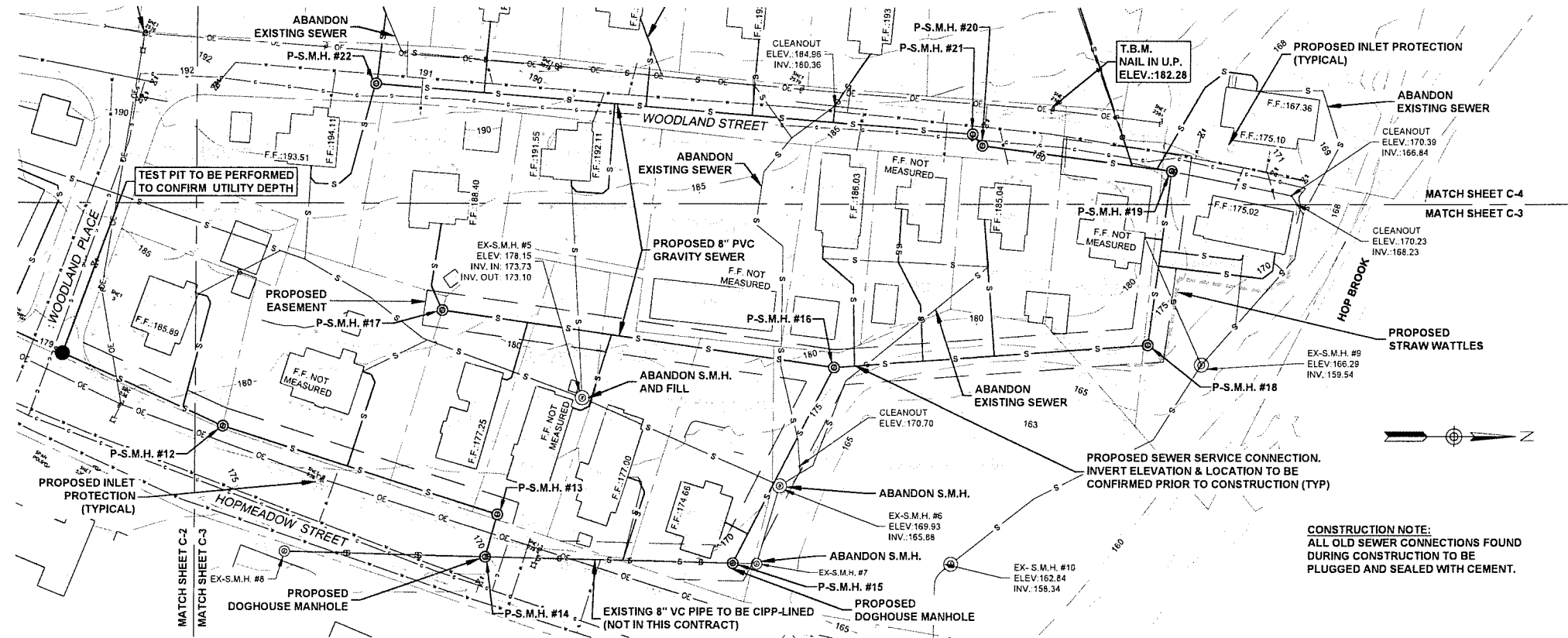
DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:	ISSUED FOR:

HOPMEADOW STREET
STATION 8+75 TO 20+00

WOODLAND STREET
SEWER REPLACEMENT
PROJECT

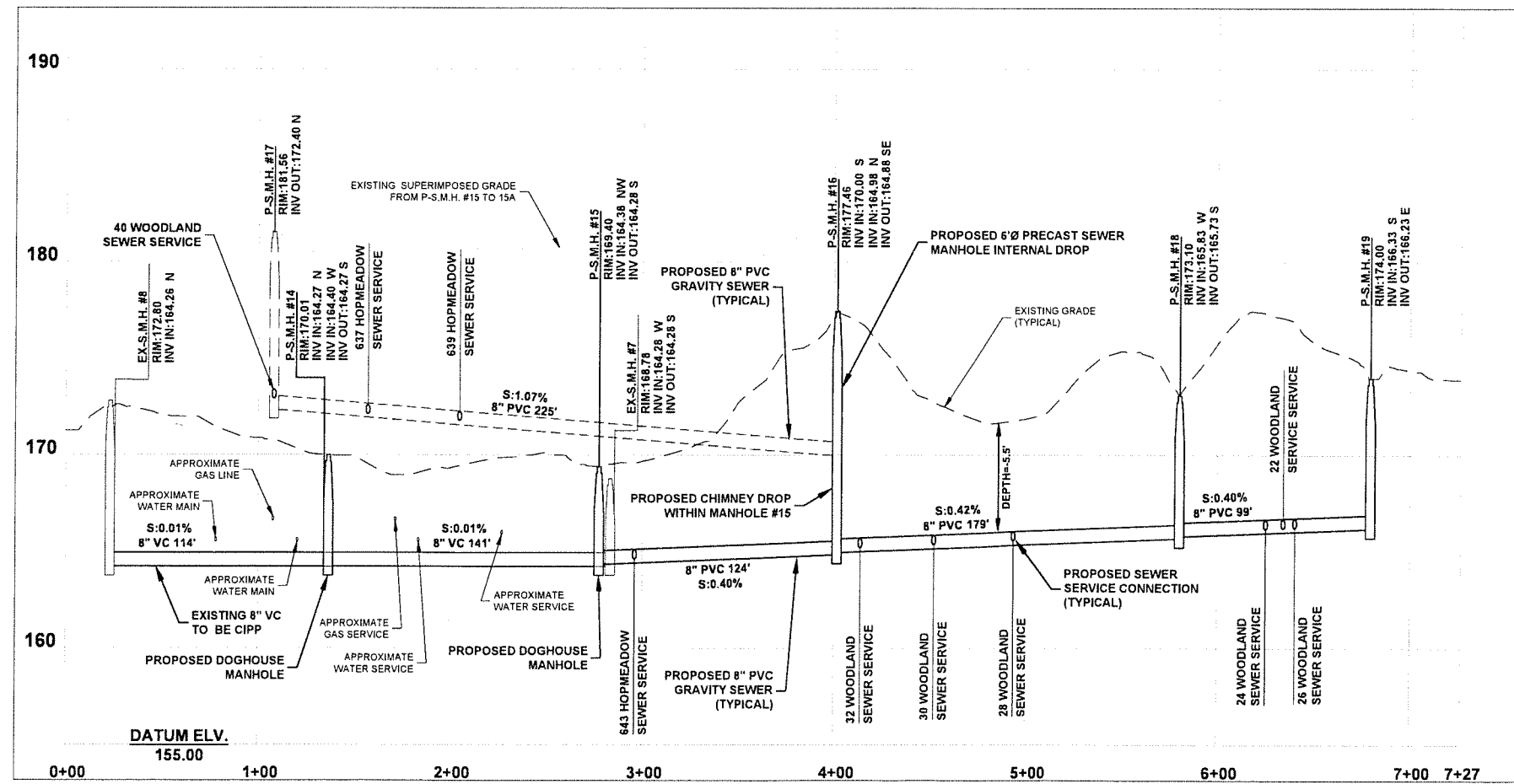
WATER POLLUTION CONTROL AUTHORITY
SIMSBURY, CONNECTICUT

SCALE: AS NOTED
SCALE SHEET SIZE: 22x34
JOB NO.:
DATE: JUNE 11, 2021
SHEET: 5 OF 12



PLAN-HOPMEADOW & WOODLAND STREET
HORIZONTAL SCALE 1" = 40'

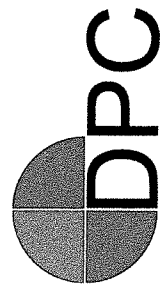
CONSTRUCTION NOTE:
ALL OLD SEWER CONNECTIONS FOUND DURING CONSTRUCTION TO BE PLUGGED AND SEALED WITH CEMENT.



PROFILE-HOPMEADOW & WOODLAND STREET
HORIZONTAL SCALE 1" = 40'
VERTICAL SCALE 1" = 4'

- NOTES:**
1. PROFILES ARE CUT ALONG CENTER LINE OF PROPOSED SEWER.
 2. SEWER LATERAL INFORMATION IS BASED ON TIE CARDS AND RECORD INFORMATION PROVIDED BY THE TOWN OF SIMSBURY.
 3. CONTRACTOR VERIFY EXACT LOCATION AND DEPTH OF ALL CROSSING UTILITIES.
 4. EXISTING SEWER LATERAL LOCATIONS TO BE VERIFIED USING CCTV INSPECTION PRIOR TO CONSTRUCTION.

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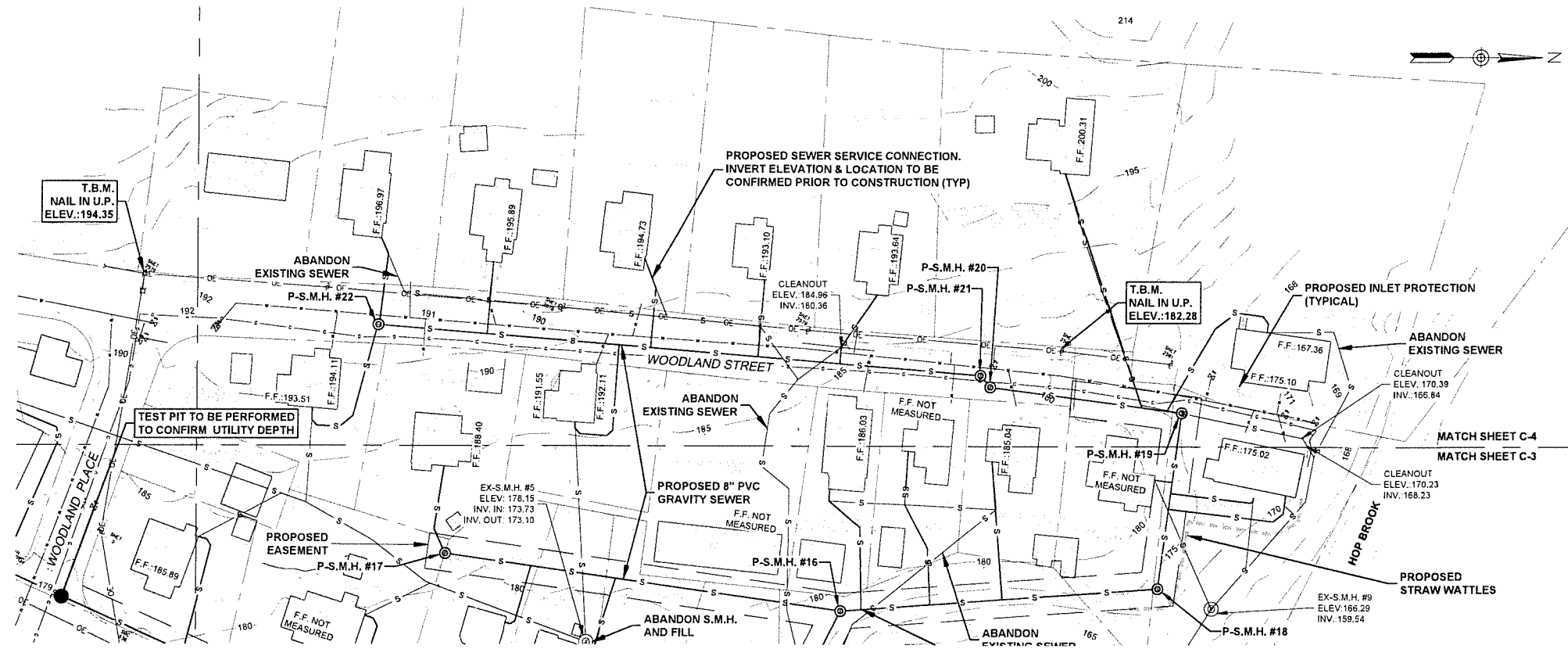


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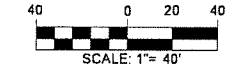
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**WOODLAND STREET
SEWER REPLACEMENT
PROJECT**
WATER POLLUTION CONTROL AUTHORITY
SIMSBURY, CONNECTICUT

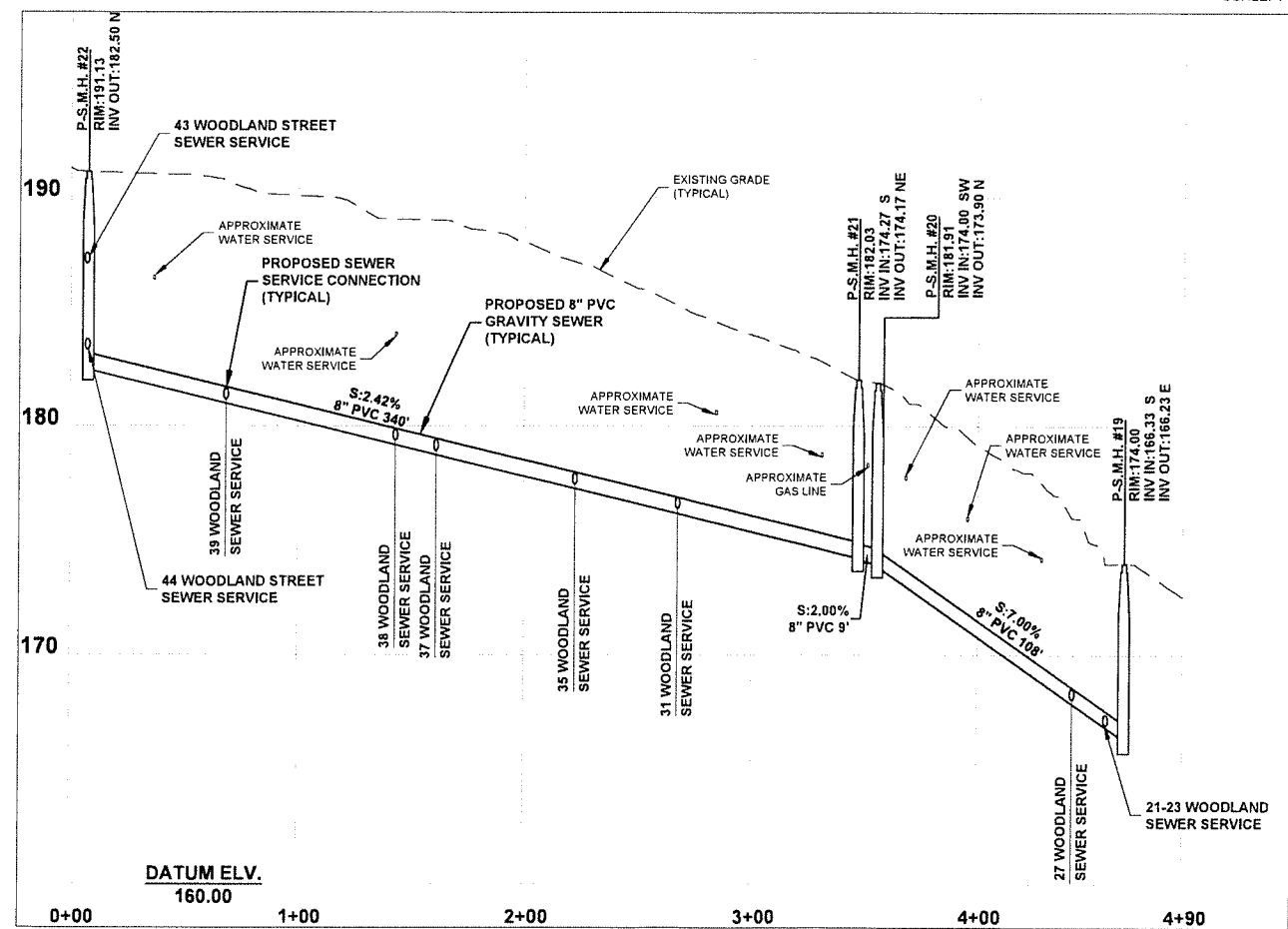
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SCALE SHEET SIZE:	22X34
JOB NO.:	
DATE:	JUNE 11, 2021
SHEET:	6 OF 12



PLAN- WOODLAND STREET
HORIZONTAL SCALE 1" = 40'



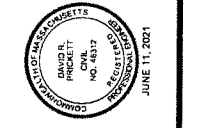
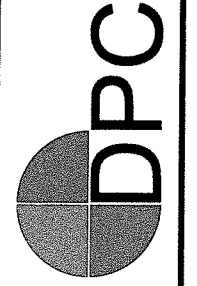
CONSTRUCTION NOTE:
ALL OLD SEWER CONNECTIONS FOUND DURING CONSTRUCTION TO BE PLUGGED AND SEALED WITH CEMENT.



PROFILE- WOODLAND STREET
HORIZONTAL SCALE 1" = 40'
VERTICAL SCALE 1" = 4'

- NOTES:**
1. PROFILES ARE CUT ALONG CENTER LINE OF PROPOSED SEWER.
 2. SEWER LATERAL INFORMATION IS BASED ON TIE CARDS AND RECORD INFORMATION PROVIDED BY THE TOWN OF SIMSBURY.
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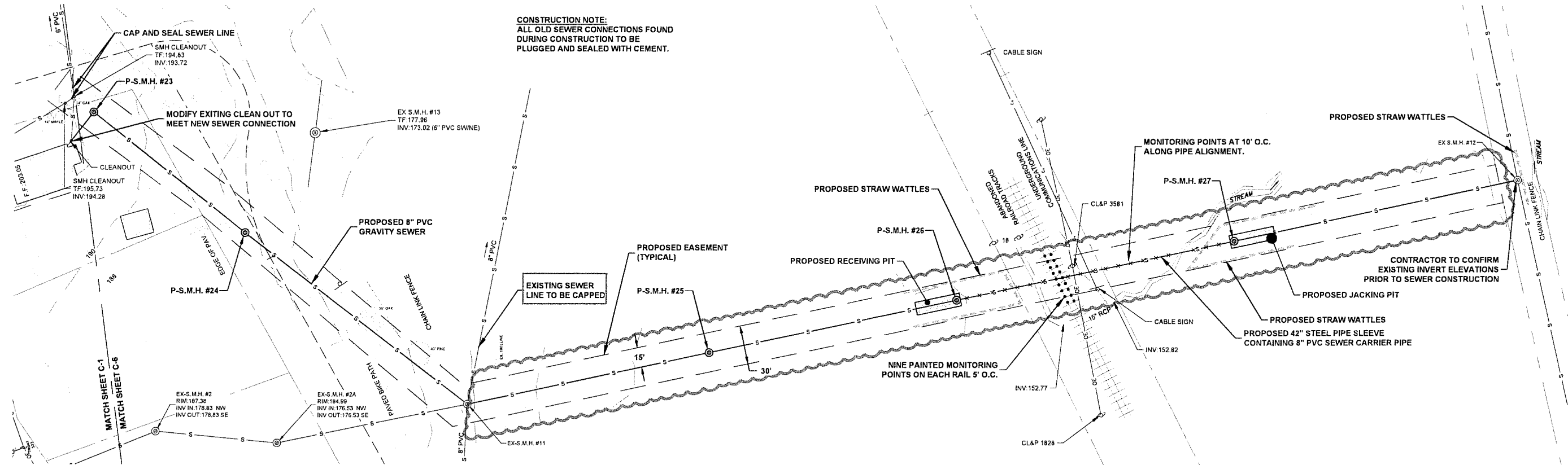
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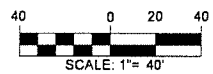
**WOODLAND STREET
SEWER REPLACEMENT
PROJECT**
STATION 0+00 TO 5+30

WOODLAND STREET
SEWER REPLACEMENT
PROJECT
WATER POLLUTION CONTROL AUTHORITY
SIMSBURY, CONNECTICUT

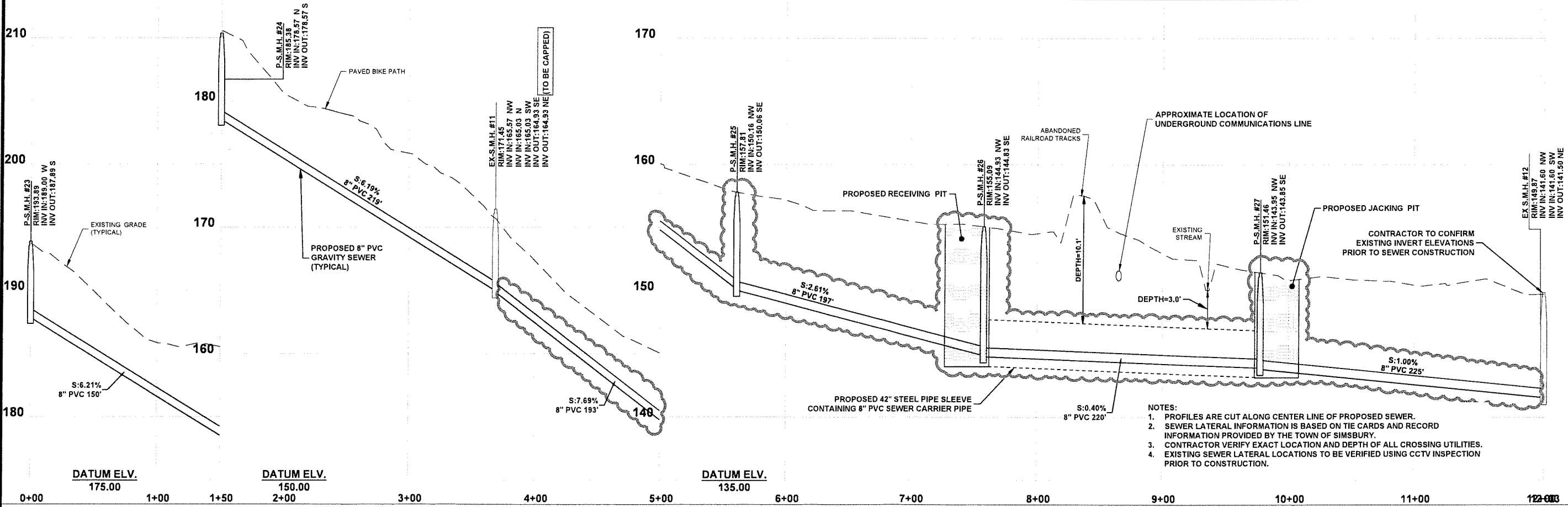
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SCALE SHEET SIZE:	22x34
JOB NO.:	
DATE:	JUNE 11, 2021
SHEET:	7 OF 12



PLAN - CROSS COUNTRY
HORIZONTAL SCALE 1" = 40'



WORK ASSOCIATED W/
ALTERNATE #1



PROFILE - CROSS COUNTRY
HORIZONTAL SCALE 1" = 40'
VERTICAL SCALE 1" = 4'

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DPCENGINEERING.COM

PROFESSIONAL ENGINEER
STATE OF MASSACHUSETTS
LICENSE NO. 10111
EXPIRES 12/31/2024
JUNE 11, 2021

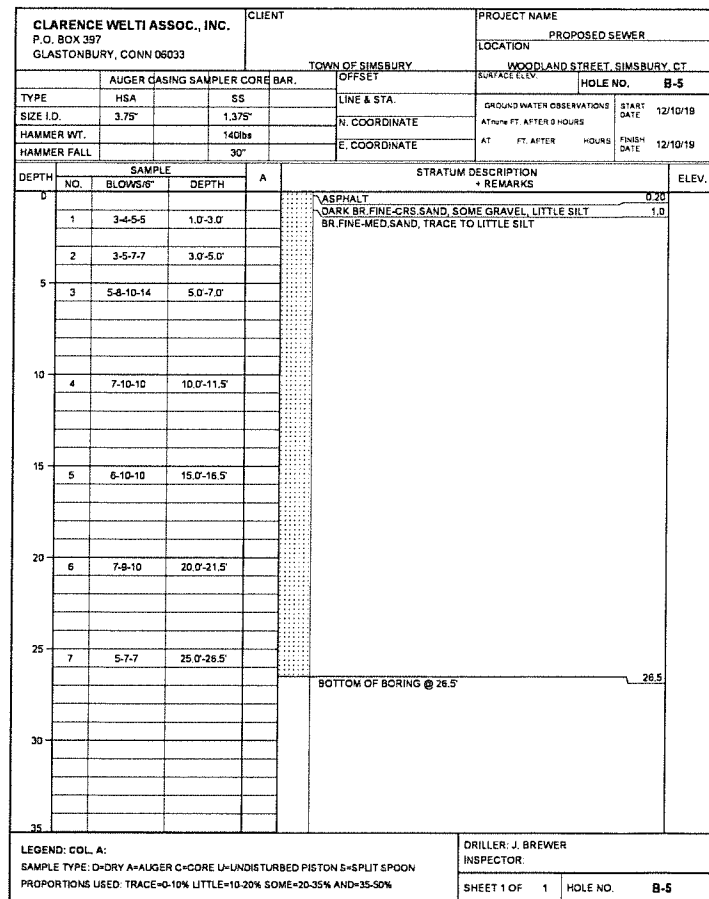
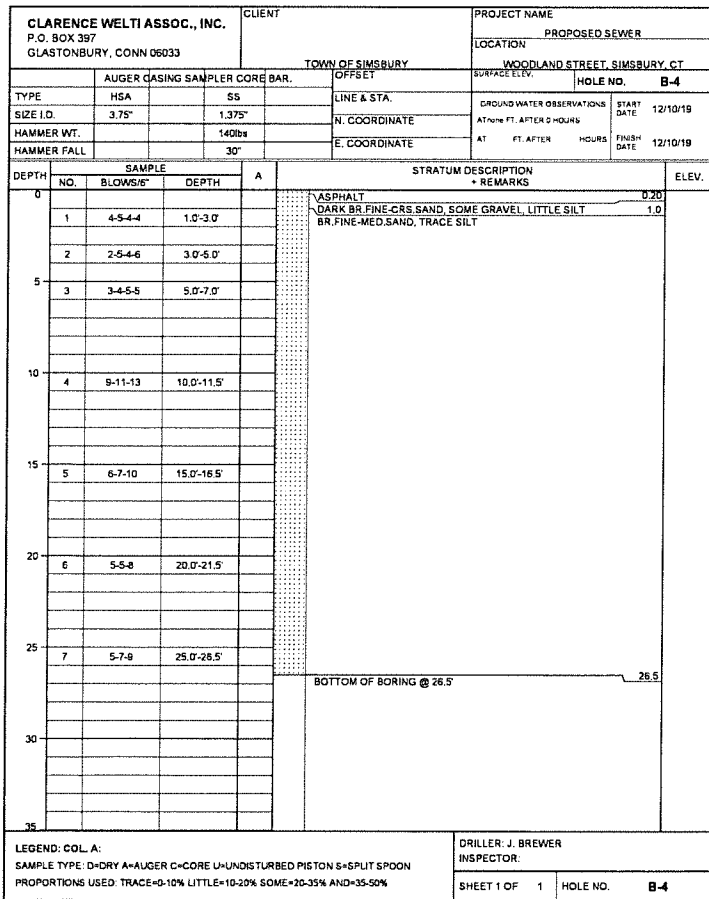
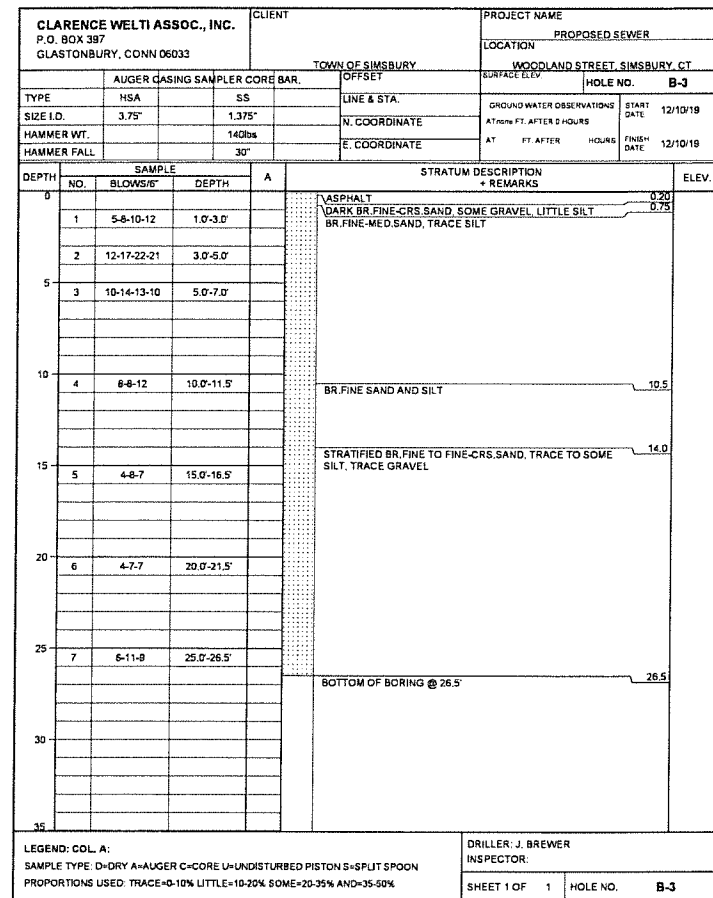
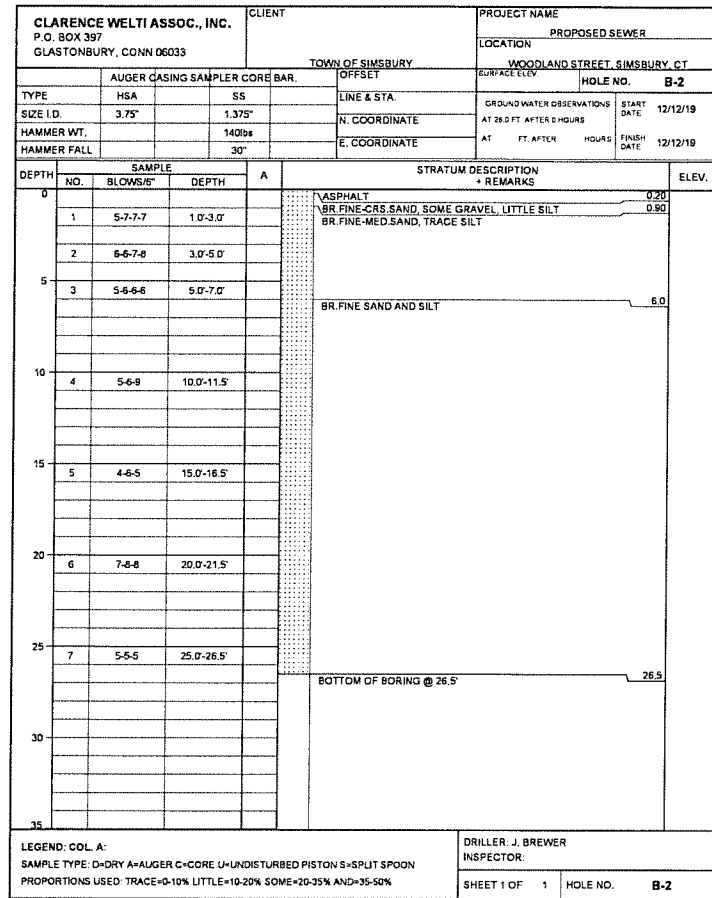
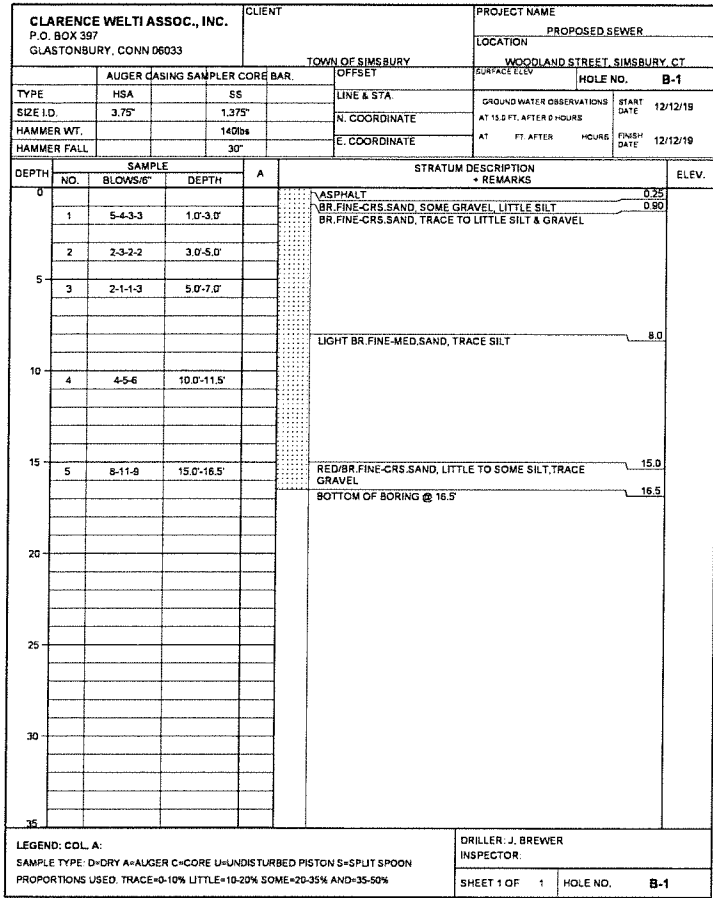
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DESCRIPTION:	
DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
ISSUED FOR:	REVIEW

CROSS COUNTRY SEWER CONNECTION STATION 0+00 TO 12+00

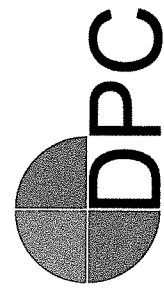
WOODLAND STREET SEWER REPLACEMENT PROJECT
WATER POLLUTION CONTROL AUTHORITY
SIMSBURY, CONNECTICUT

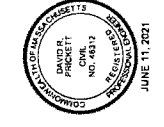
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JOB NO.:
DATE: JUNE 11, 2021
SHEET: 8 OF 12

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22 Northfield Road
Longmeadow, MA 01106
(413) 867-4310
(413) 867-1020
DPCENGINEERING.COM





COMBINATION OF INCHES
FRANK R. PRICKEY
CIVIL
NO. 10711
EXPIRES 12/31/2021
JUNE 11, 2021

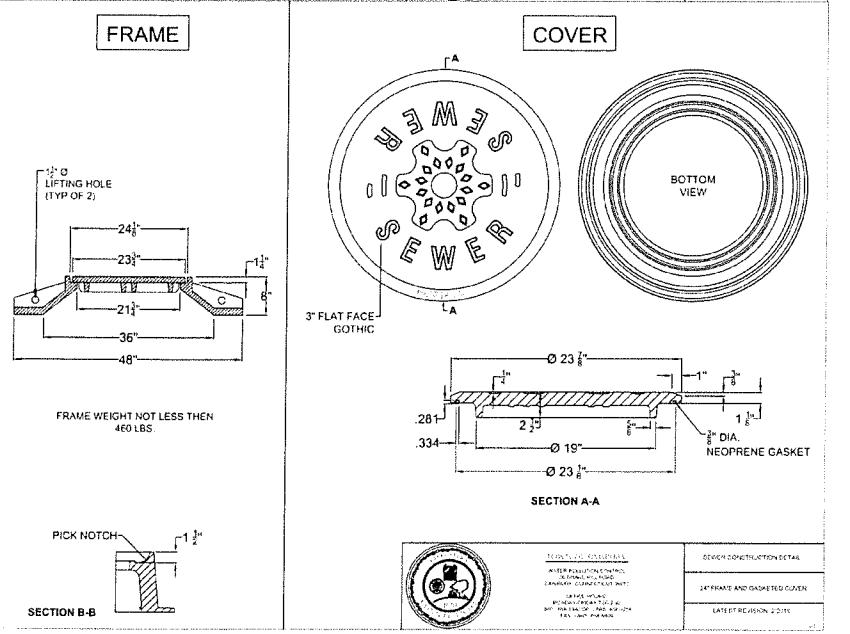
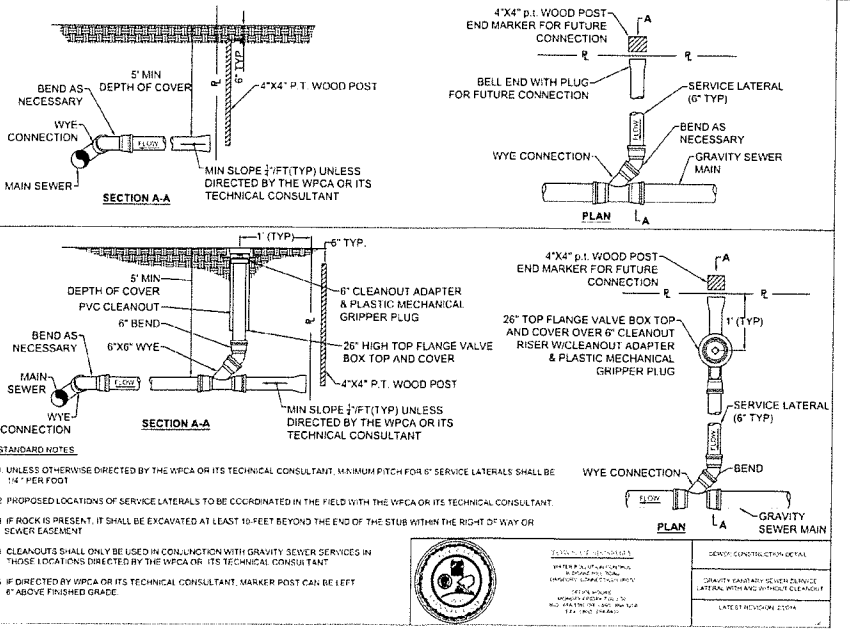
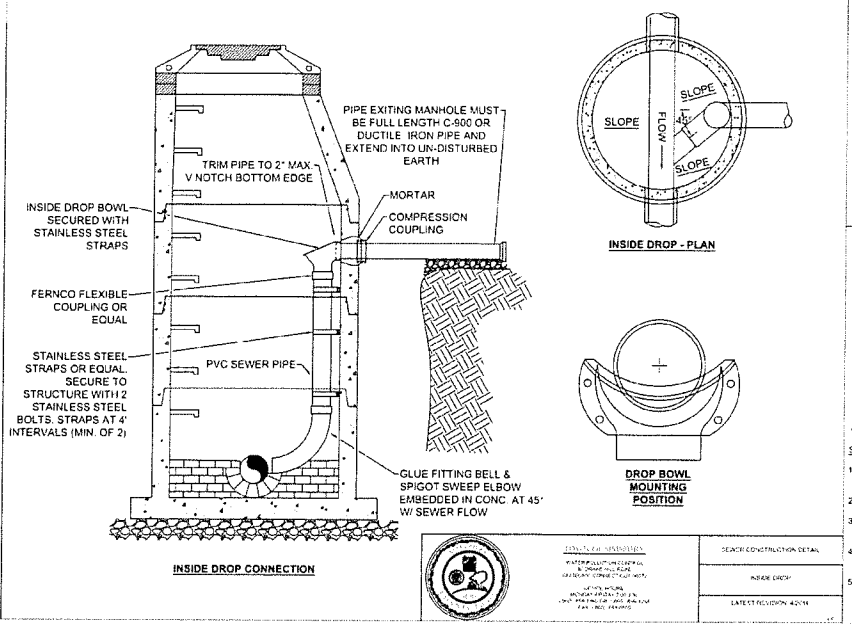
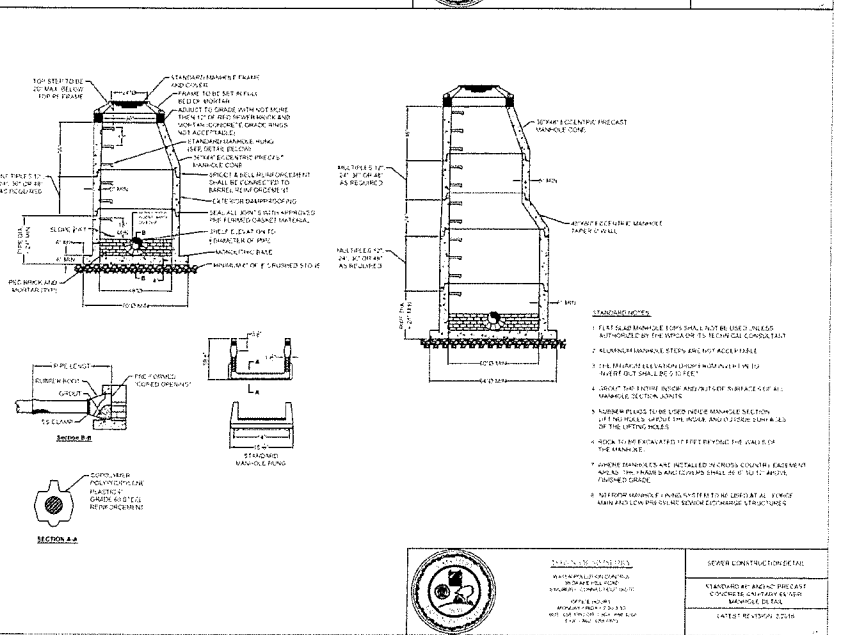
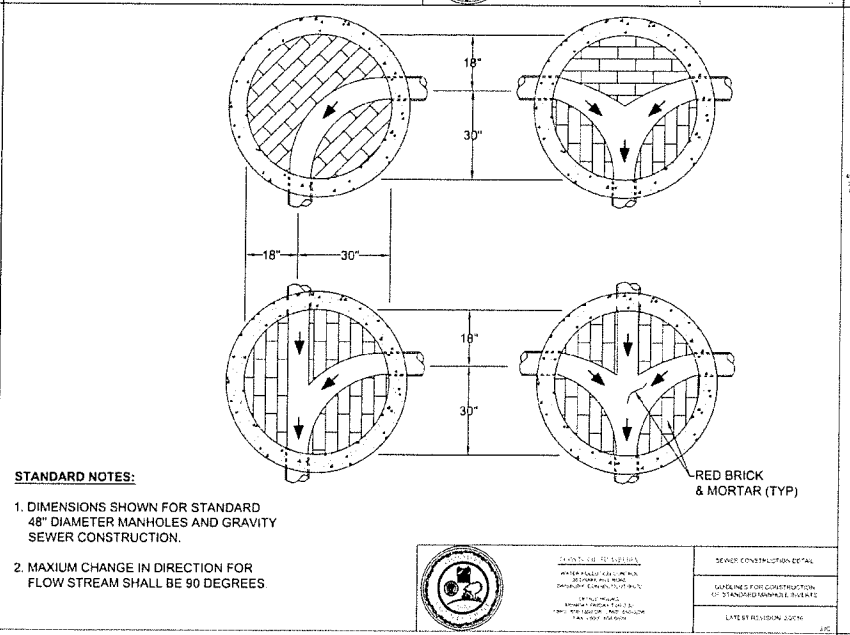
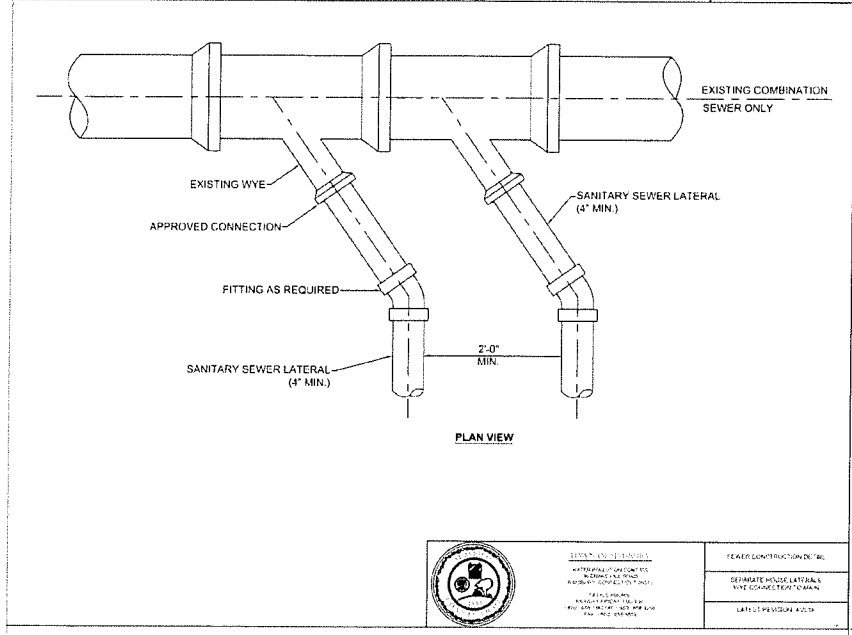
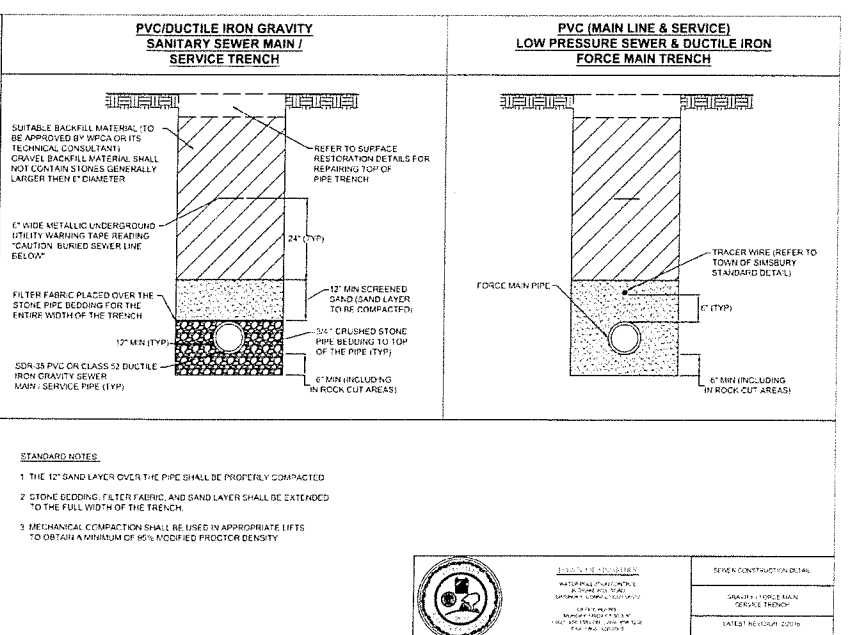
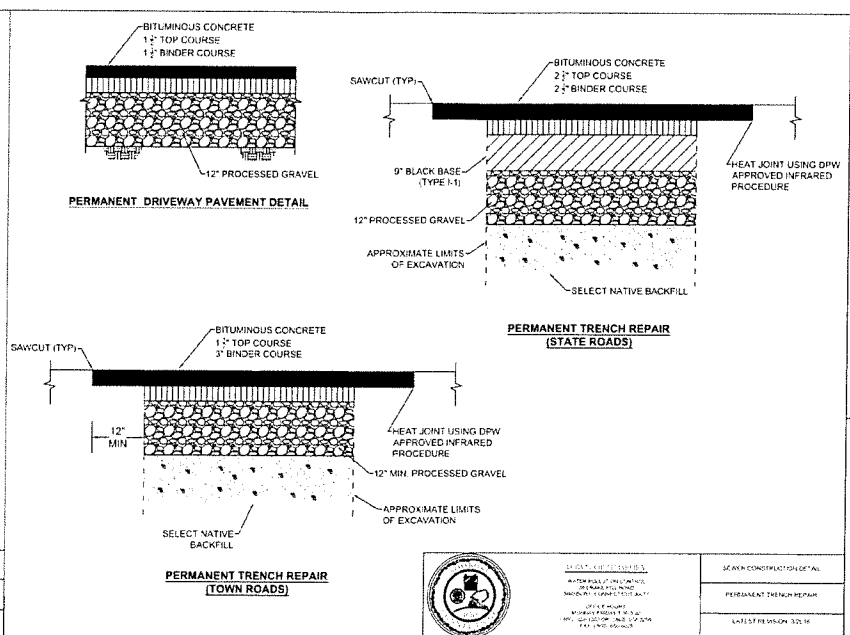
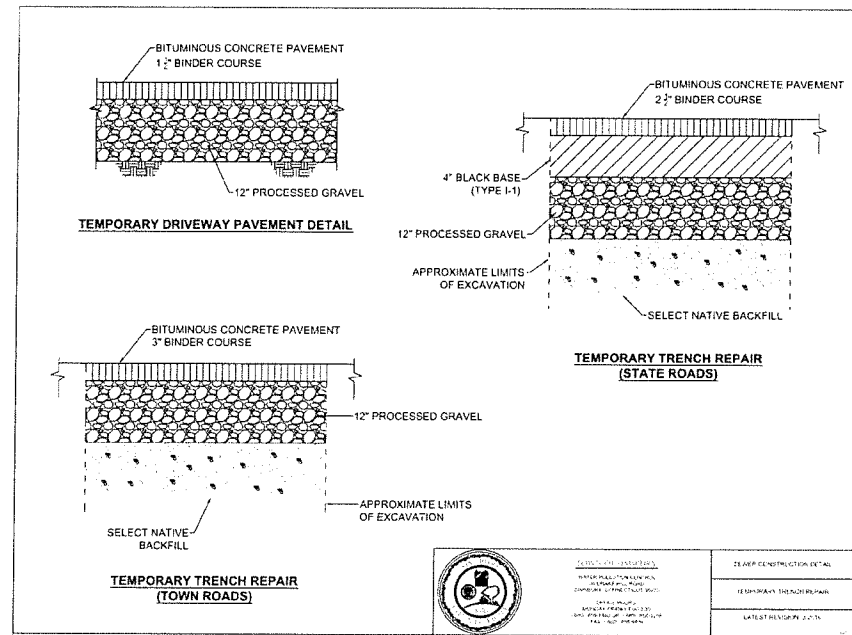
DATE:	
DESCRIPTION:	
REV:	
DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
ISSUED FOR:	REVIEW

SUBSURFACE EXPLORATION LOGS

WOODLAND STREET
SEWER REPLACEMENT
PROJECT
WATER POLLUTION CONTROL AUTHORITY
SIMSBURY, CONNECTICUT

SCALE: AS NOTED
SCALE SHEET SIZE: 22X34
JOB NO.:
DATE: JUNE 11, 2021
SHEET: 8 OF 12

C-7



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DPC

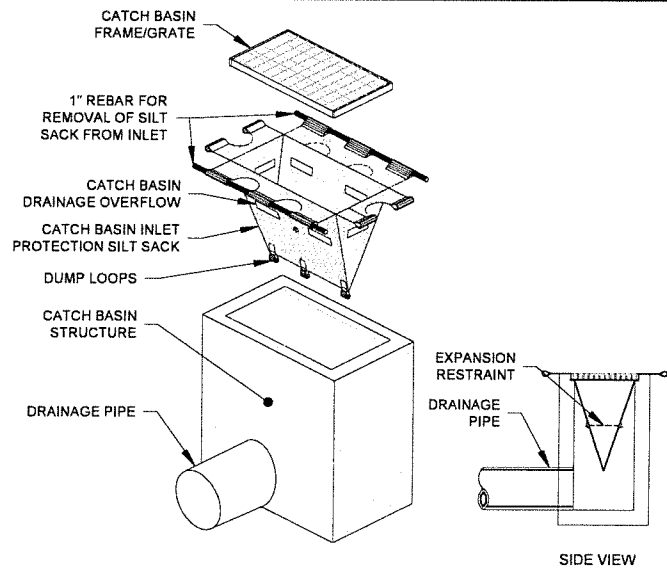
SEAL OF THE STATE OF CONNECTICUT
REGISTERED PROFESSIONAL ENGINEER
NO. 10100
EXPIRES 12/31/2021
JUNE 11, 2021

DATE:	
DESCRIPTION:	
DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
ISSUED FOR:	
REVIEW	

WOODLAND STREET SEWER REPLACEMENT PROJECT
WATER POLLUTION CONTROL AUTHORITY
SIMSBURY, CONNECTICUT

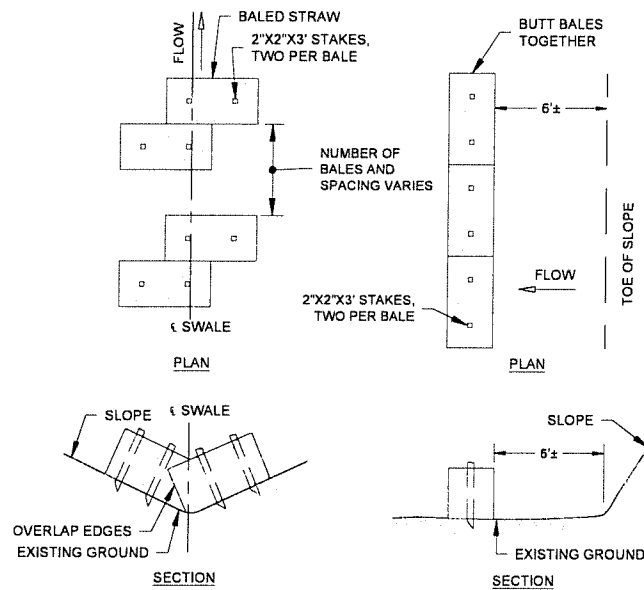
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SCALE SHEET SIZE: 22X34
JOB NO.:
DATE: JUNE 11, 2021
SHEET: 10 OF 12

C-8



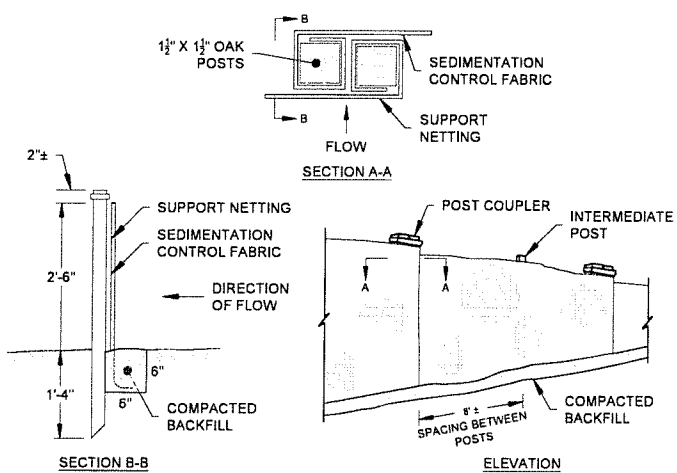
NOTES:
1. PROVIDE HI-FLOW SILT SACK TYPE A FOR TYPE "C-L" CATCH BASIN TOPS AND TYPE B WITH CURB DEFLECTOR FOR TYPE "C" CATCH BASIN TOPS OR OTHER STRUCTURES WITH CURB INLET.

CATCH BASIN INLET PROTECTION
N.T.S.

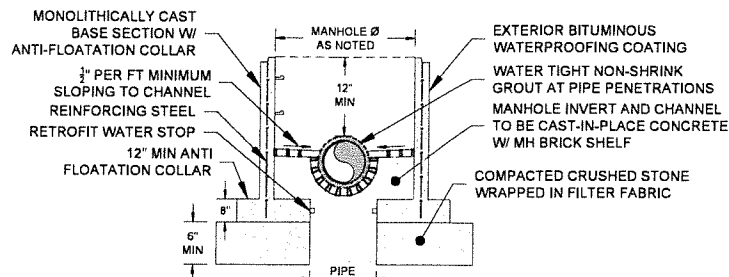


NOTE: TO BE USED IN LOCATIONS WHERE THE EXISTING GROUND SLOPES IN TOWARD THE TOE OF SLOPE
NOTE: TO BE USED IN LOCATIONS WHERE THE EXISTING GROUND SLOPES AWAY FROM THE TOE OF SLOPE

STRAW BALES DETAIL
N.T.S.

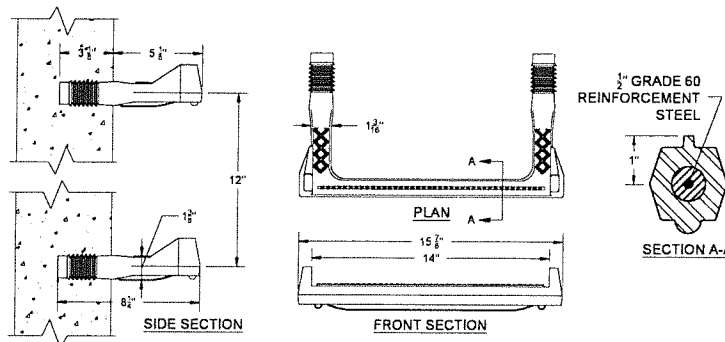


SILT FENCE DETAIL
N.T.S.



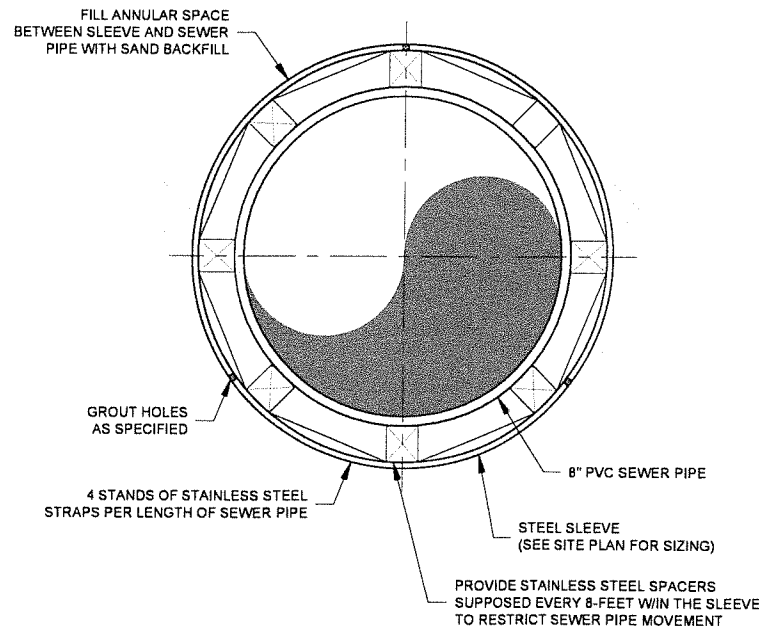
- NOTES:
1. MANHOLE SHALL CONFORM TO LATEST ASTM DESIGNATION C478. CONCRETE COMPRESSIVE STRENGTH-5,000 PSI MINIMUM AT 28 DAYS.
2. DOGHOUSE OPENING MAY ONLY BE USED WHEN PLACING A NEW MANHOLE OVER AN EXISTING LINE. OTHERWISE, THE OPENING SHALL BE CAST.
3. OPENINGS IN PRECAST UNITS ARE TO BE 4" MINIMUM TO 8" MAXIMUM LARGER THAN THE OUTSIDE DIAMETER OF THE EXISTING PIPE.
4. TOP HALF OF EXISTING PIPE TO BE REMOVED FOR FULL LENGTH EXPOSED INSIDE MANHOLE. EXISTING PIPE TO BE NEATLY CUT ALONG THE SPRING LINE OF THE PIPE.
5. INVERT TO BE BUILT TO 0.8 OF THE DIAMETER OF PIPE.
6. REINFORCING STEEL WELDED WIRE FABRIC CONFORMS TO LATEST ASTM SPECIFICATION A185.
7. REINFORCING STEEL DEFORMED BARS CONFORM TO LATEST ASTM SPECIFICATION A615.
8. SEE MANHOLE DETAIL FOR ADDITIONAL INFORMATION.

PRECAST DOGHOUSE MANHOLE BASE DETAIL
N.T.S.

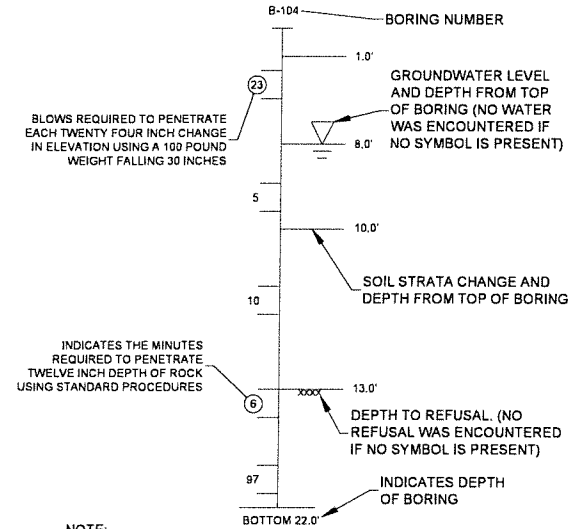


- NOTES:
1. MANHOLE SHALL CONFORM TO LATEST ASTM DESIGNATION C478.
2. TOP STEP TO BE PLACED 12" BELOW FRAME.
3. BOTTOM STEP TO BE PLACED A MAXIMUM OF 16" ABOVE MANHOLE BASE.

PLASTIC STEEL REINFORCED MANHOLE STEP DETAIL
N.T.S.



STANDARD JACKING PIPE CROSS SECTION
N.T.S.

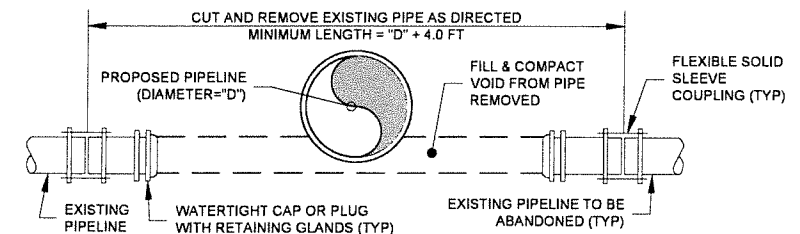


NOTE: FOR DRILLER'S NAME, SOILS ENCOUNTERED AND OTHER PERTINENT DATA SEE BORING LOGS IN SPECIFICATIONS

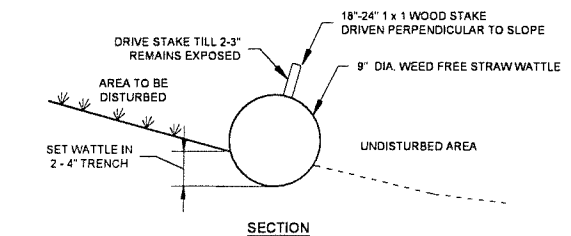
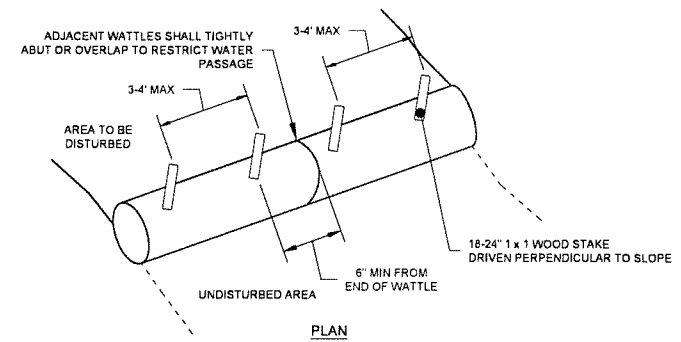
BORING LOG LEGEND
N.T.S.

DEPTH TO PIPE INVERT	DIAMETER OF PIPE (DP)	MAXIMUM TRENCH WIDTH BELOW LINE OF NARROW TRENCH LIMIT (SHEETED OR UNSHEETED) (W)	MINIMUM CLEARANCE (S)
0-12'	TO 18"	5'	6"
0-12'	21"-24"	5'	12"
OVER 12'	TO 18"	7'	12"
OVER 12'	21"-24"	7'	18"

TABLE A FINISHED GRADE



EXISTING PIPELINE CUT AND CAP DETAIL
N.T.S.



STRAW WATTLE EROSION CONTROL DETAIL
N.T.S.

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STATE OF MASSACHUSETTS
REGISTERED PROFESSIONAL ENGINEER
CIVIL
NO. 4812
JUNE 11, 2021

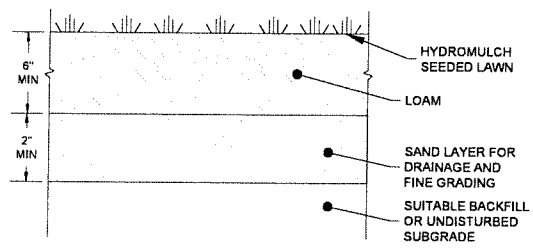
DATE: _____
DESCRIPTION: _____
DRAWN BY: _____
DESIGNED BY: _____
CHECKED BY: _____
APPROVED BY: _____
ISSUED FOR: REVIEW
FILE: _____

DETAILS

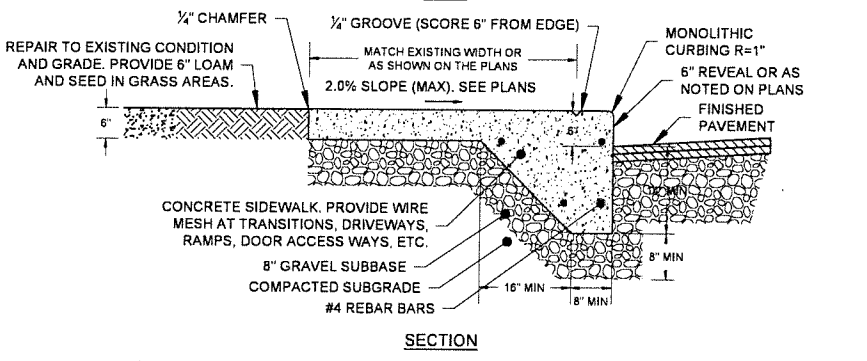
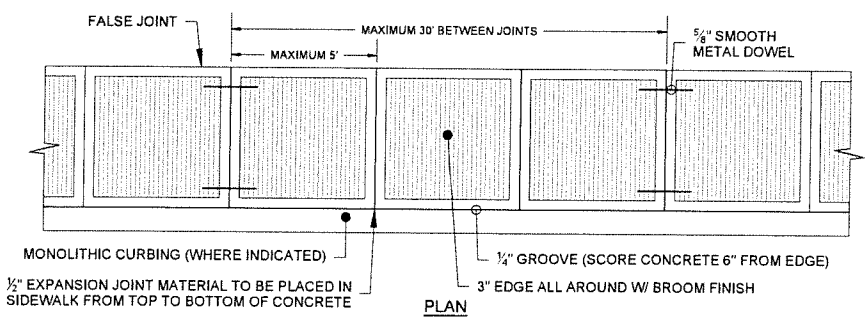
WOODLAND STREET
SEWER REPLACEMENT
PROJECT
WATER POLLUTION CONTROL AUTHORITY
SIMSBURY, CONNECTICUT

SCALE: AS NOTED
SCALE SHEET SIZE: 22X34
JOB NO.: _____
DATE: JUNE 11, 2021
SHEET: 11 OF 12

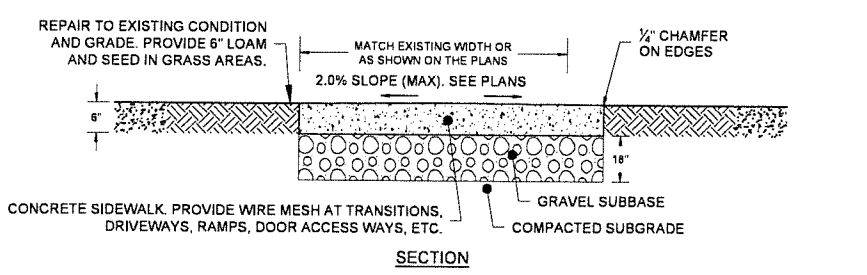
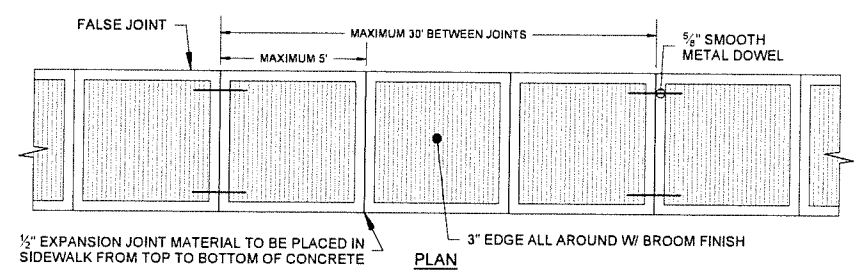
C-9



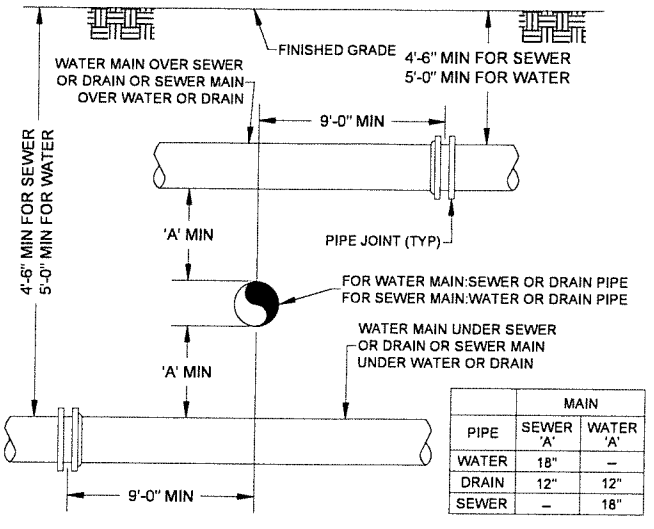
TYPICAL LOAM AND SEED DETAIL
N.T.S.



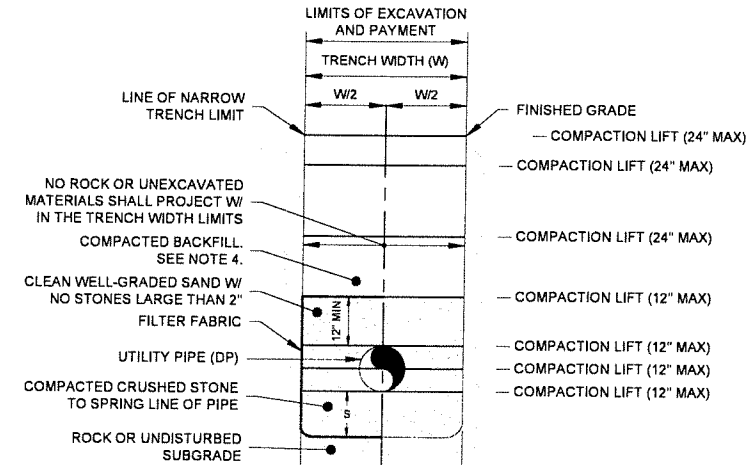
CONCRETE SIDEWALK AND MONOLITHIC CURB DETAIL
N.T.S.



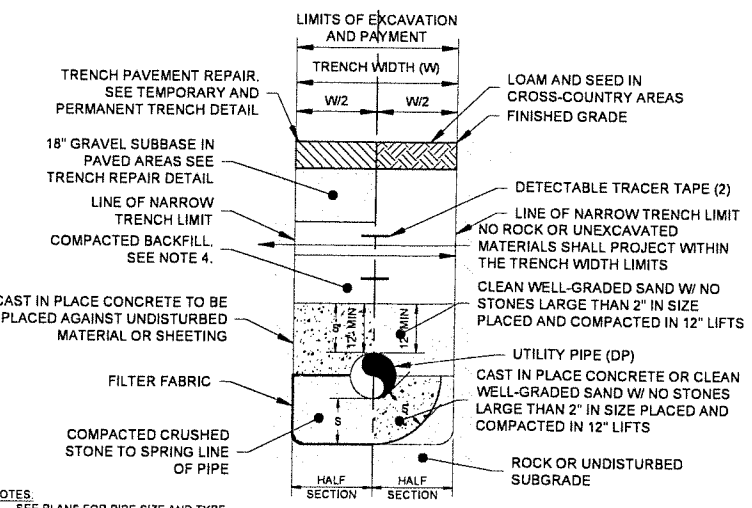
CONCRETE SIDEWALK DETAIL
N.T.S.



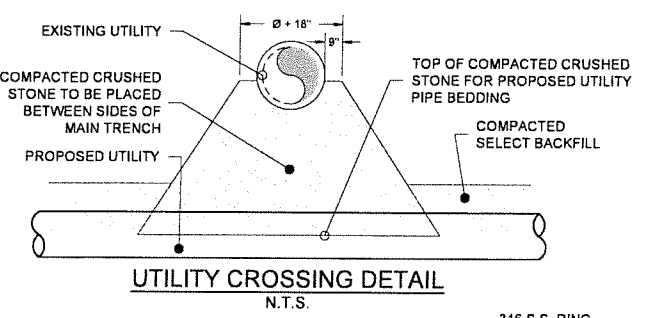
WATER, SEWER OR DRAIN CROSSING DETAIL
N.T.S.



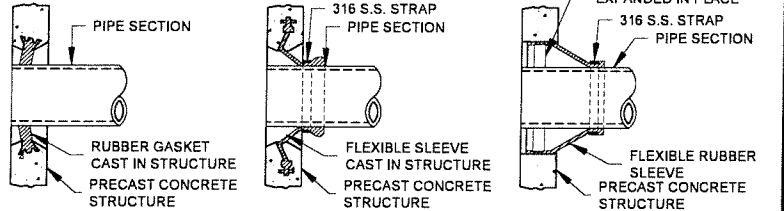
TRENCH COMPACTION DETAIL
N.T.S.



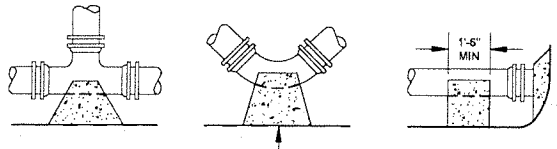
CONCRETE ARCH AND CRADLE DETAIL
N.T.S.



UTILITY CROSSING DETAIL
N.T.S.



MANHOLE SEAL DETAILS
N.T.S.



TEE DETAIL (PLAN VIEW), BEND DETAIL (PLAN VIEW), CAP DETAIL (SECTION VIEW)

TABLE OF CONCRETE THRUST RESTRAINT MINIMUM BEARING AREAS IN SQUARE FEET AGAINST UNDISTURBED MATERIAL FOR WATER MAIN FITTINGS

PIPE SIZE	90° BENDS, TEES, CAPS AND PLUGS	45° BENDS OR WYE BRANCH	22 1/2° BENDS	11 1/4° BENDS
6"	5	4	2	2
8"	5	4	2	2
10"	12	9	5	2
12"	12	9	5	2

NOTES:
1. CONCRETE THRUST RESTRAINT SHALL ONLY BE USED WHERE OTHER MEANS OF RESTRAINT ARE NOT FEASIBLE.
2. CONTRACTOR SHALL USE CARE TO AVOID PLACEMENT OF CONCRETE ON THE FITTING JOINTS.

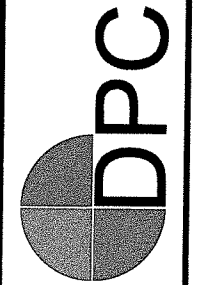
CONCRETE THRUST RESTRAINT FOR FITTINGS

PIPE SIZE	90° BEND	45° BEND OR WYE BRANCH	22 1/2° BEND	11 1/4° BEND	PLUG OR CAP	TEE (BRANCH)
6"	25 (30.5)	10.5 (12.5)	5 (6)	2.5 (3)	43 (64)	34 (51)
8"	33 (40)	13.5 (16.5)	6.5 (8)	3 (4)	55 (82)	47 (70)
10"	40 (48.5)	16.5 (20)	8 (9.5)	4 (5)	67 (100)	58 (87)
12"	47 (56.5)	19.5 (23.5)	9.5 (11.5)	4.5 (5.5)	79 (118)	70 (105)

NOTES:
1. ALL LENGTHS SHOWN IN FEET.
2. RESTRAINED LENGTHS LISTED IN PARENTHESES ARE FOR PIPE WRAPPED IN POLYETHYLENE. THE OTHER ASSOCIATED LENGTHS ARE FOR PLAIN UNWRAPPED DUCTILE IRON PIPE.
3. THE CONTRACTOR SHALL USE THIS TABLE IN CONJUNCTION WITH THE SPECIFIED PIPE SPECIFICATION SECTION.

MINIMUM REQUIRED LENGTH OF RESTRAINED JOINTS
PIPE RESTRAINT (CONCRETE/PIPE RESTRAINT) DETAIL
N.T.S.

DPC ENGINEERING, LLC
22 Northfield Rd.
Longmeadow, MA 01106
(413) 587-4310
(413) 587-1030
DPCENGINEERING.COM



DATE	DESCRIPTION	REV.	ISSUED FOR:

DESIGNED BY:	CHECKED BY:	APPROVED BY:	ISSUED FOR:	REVIEW

WOODLAND STREET
SEWER REPLACEMENT
PROJECT
WATER POLLUTION CONTROL AUTHORITY
SIMSBURY, CONNECTICUT

SCALE: AS NOTED
SCALE SHEET SIZE: 22X34
JOB NO.:
DATE: JUNE 11, 2021
SHEET: 12 OF 12