

CITY OF BATH

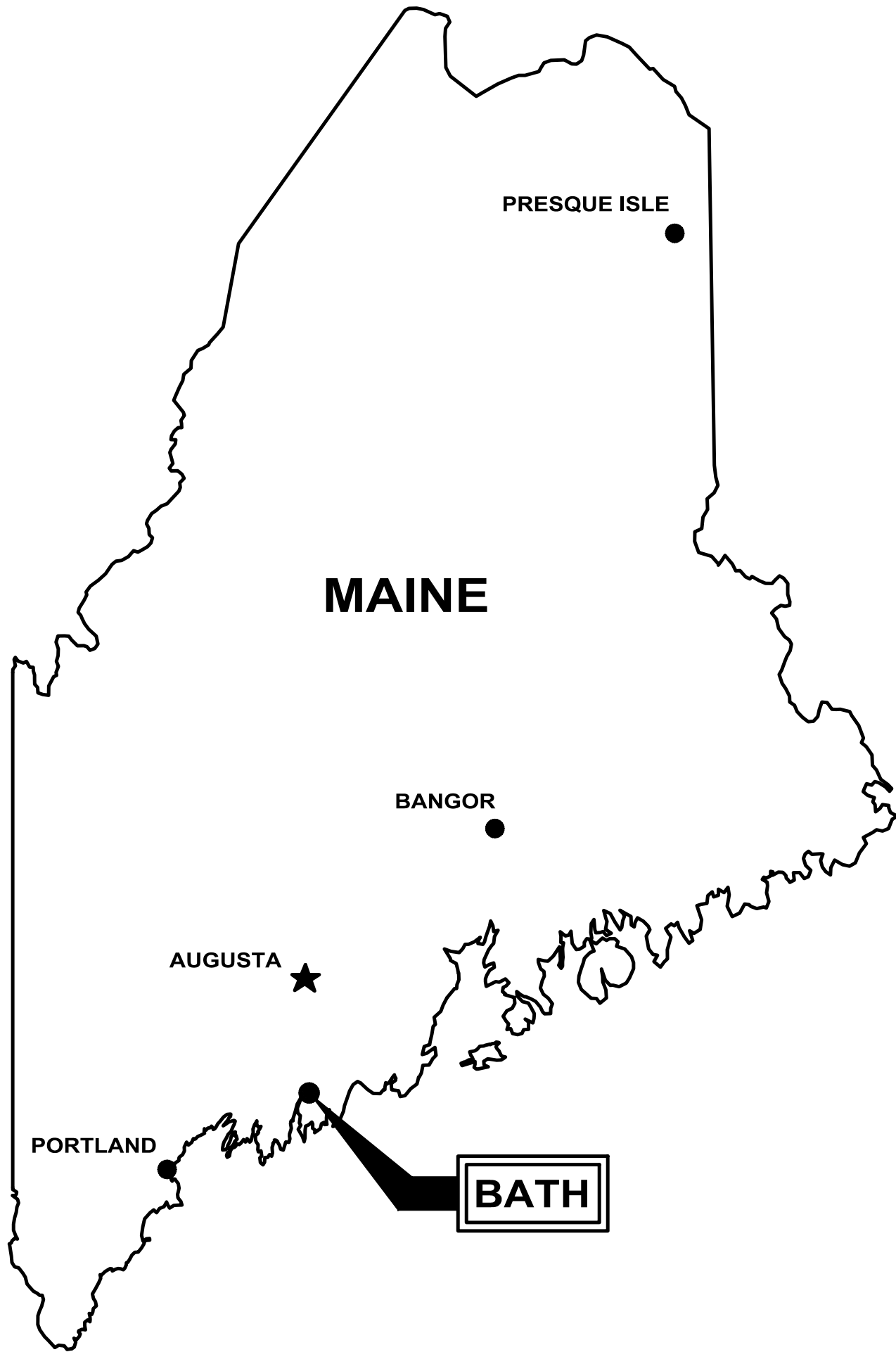
CONTRACT DRAWINGS FOR

CRAWFORD DRIVE

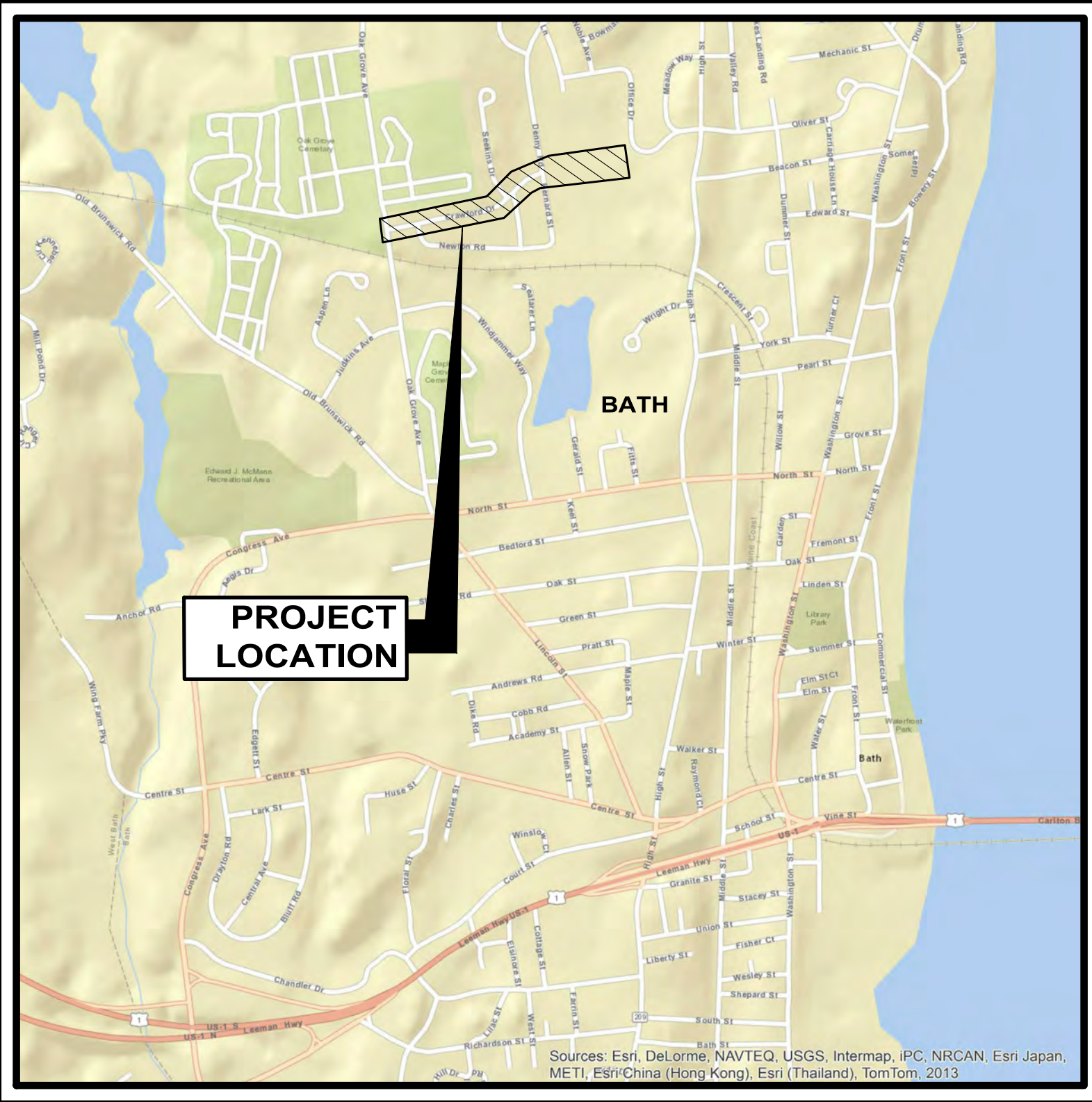
SIDEWALK AND ROAD IMPROVEMENTS

BATH, MAINE

JUNE 2022



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LOCATION PLAN
NTS



GENERAL NOTES

1. BELOW GRADE UTILITY INFORMATION IS BASED ON INFORMATION PROVIDED BY EACH UTILITY. LOCATION OF PUBLIC UTILITIES SHOWN IS ONLY APPROXIMATE AND MAY NOT BE COMPLETE. PRIVATE UNDERGROUND UTILITIES SUCH AS, BUT NOT LIMITED TO, SEWER LINES, WATER LINES AND BURIED ELECTRICAL SERVICE ENTRANCES ARE NOT SHOWN. THE CONTRACTOR SHALL ASCERTAIN THE LOCATION AND SIZE OF EXISTING UTILITIES IN THE FIELD WITH THE RESPECTIVE UTILITY COMPANY REPRESENTATIVE PRIOR TO COMMENCING WORK. REFER TO SPECIFICATION SECTION 01050. ADDITIONAL TEST PITS, BEYOND THOSE SHOWN, MAY BE REQUIRED. UTILITY CONTACTS ARE AS FOLLOWS:

<u>ELECTRIC:</u>	<u>CABLE TELEVISION:</u>	<u>WATER</u>
CENTRAL MAINE POWER CO. 280 BATH ROAD BATH, MAINE 04011 (207)721-8034	COMCAST 336 BATH ROAD BRUNSWICK, MAINE 04011 (207)729-2623	BATH WATER DISTRICT 1 LAMBARD STREET BATH, MAINE 04530 (207)443-2391
<u>TELEPHONE</u>	<u>DIG SAFE:</u>	<u>SEWER</u>
CONSOLIDATED COMMUNICATIONS 5 DAVIS FARM ROAD PORTLAND, ME 04103 207-878-0854	TEL. 1-888-DIG-SAFE (1-888-344-7233)	CITY OF BATH PUBLIC WORKS 450 OAK GROVE ROAD BATH, ME 04530
		<u>GAS</u>
		MAINE NATURAL GAS P.O. BOX 99, 9 INDUSTRIAL PKWY BRUNSWICK, ME 04011 (207)729-0420 X107

1. ALL EXISTING SEWER AND STORM DRAIN LINES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE, UNLESS OTHERWISE NOTED. ANY EXISTING SEWERS, STORM DRAIN LINES OR CULVERTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER, EXCEPT WHEN IN DIRECT CONFLICT WITH THE NEW SEWER OR WHEN NOT SHOWN OR INDICATED.
2. THE CONTRACTOR SHALL TAKE PRE-CONSTRUCTION PHOTOGRAPHS AND PROVIDE COPIES TO THE OWNER PRIOR TO CONSTRUCTION. THIS WORK SHALL INCLUDE ALL PRIVATE PROPERTY THAT MAY BE IMPACTED BY THE PROJECT.
3. THE CONTRACTOR SHALL FURNISH AND MAINTAIN A TELEPHONE NUMBER WHERE A RESPONSIBLE PARTY CAN BE REACHED 24 HOURS A DAY, 7 DAYS A WEEK, UNTIL THE PROJECT IS SUBSTANTIALLY COMPLETE.
4. ALL STRUCTURES AND PIPELINES LOCATED ADJACENT TO THE TRENCH EXCAVATION SHALL BE PROTECTED AND FIRMLY SUPPORTED BY THE CONTRACTOR UNTIL THE TRENCH IS BACKFILLED. INJURY 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 AS A RESULT OF THE PROJECT SHALL BE COORDINATED THROUGH THE RESPECTIVE UTILITY.
5. EXISTING DRAINAGE STRUCTURES THAT ARE TO BE ALTERED OR REBUILT ARE TO BE CLEANED BY THE CONTRACTOR AND THE MATERIAL DISPOSED PER CITY ORDINANCE. THERE WILL BE NO PAYMENT FOR CLEANING NEW, ALTERED, ADJUSTED, OR REBUILT CATCH BASINS AND MANHOLES.
6. IN THOSE INSTANCES WHERE POWER OR TELEPHONE POLE SUPPORT IS REQUIRED, THE CONTRACTOR SHALL PROVIDE A MINIMUM 48-HOUR NOTIFICATION TO CMP OR CONSOLIDATED COMMUNICATIONS, RESPECTIVELY.
7. THE CONTRACTOR SHALL INSTALL AND MAINTAIN TRAFFIC CONTROL SIGNS IN ACCORDANCE WITH MAINE DOT REQUIREMENTS. THE CONTRACTOR SHALL RESET OR REPLACE EXISTING STREET & TRAFFIC SIGNS DISTURBED BY THE CONTRACTOR'S OPERATIONS IN ACCORDANCE WITH THE M.U.T.C.D. THE CONTRACTOR SHALL COORDINATE THE WORK WITH THE CITY OF BATH'S PUBLIC WORKS DEPARTMENT. REGULATORY SIGNS SHALL BE TEMPORARILY MOUNTED CLOSELY TO THEIR ORIGINAL LOCATION UNTIL SUCH TIME AS THEY CAN BE PERMANENTLY REMOUNTED.
8. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRAFFIC FLOW AT ALL TIMES. THE CONTRACTOR IS REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN TO THE OWNER PRIOR TO COMMENCING CONSTRUCTION. BATH POLICE AND FIRE DEPARTMENT ARE TO BE NOTIFIED AT LEAST 24 HOURS IN ADVANCE OF ANY STREET CLOSING OR DETOUR.
9. THE OWNER WILL BE RESPONSIBLE FOR OBTAINING THE PERMITS LISTED IN THE SUPPLEMENTARY OR SPECIAL CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE APPLICABLE PROVISIONS OF EACH PERMIT AS THEY APPLY TO THE WORK PRIOR TO BIDDING AND ABIDE BY THOSE PROVISIONS DURING CONSTRUCTION. COPIES OF ALL OBTAINED PERMITS ARE AVAILABLE FOR REVIEW FROM THE CITY OF BATH. ALL OTHER PERMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
10. THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RIGHTS OF WAY AND EASEMENTS. THE CONTRACTOR SHALL VERIFY THAT THE NECESSARY EASEMENTS HAVE BEEN SECURED BY THE OWNER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE APPLICABLE PROVISIONS OF EACH EASEMENT AS THEY APPLY TO THE WORK PRIOR TO BIDDING AND ABIDE BY THOSE PROVISIONS DURING CONSTRUCTION. COPIES OF ALL RIGHTS-OF-WAY AND EASEMENTS ARE AVAILABLE FOR REVIEW FROM THE CITY OF BATH.
11. CONTRACTOR SHALL MINIMIZE CLEARING OPERATIONS. CLEARING LIMITS SHALL BE AS INDICATED ON THE DRAWINGS, BUT AT ALL TIMES WITHIN EXISTING ROAD RIGHTS-OF-WAY AND PROPERTY LINES ON STATE OR CITY-OWNED PROPERTY OR EASEMENTS. ALL UNUSABLE GRUBBINGS AND EXCESS EXCAVATED MATERIAL ARE THE PROPERTY OF THE CONTRACTOR AND WILL BE DISPOSED OF AT A SITE PROVIDED BY THE CONTRACTOR IN COMPLIANCE WITH ALL STATE AND LOCAL LAWS. CONTRACTOR SHALL REMOVE AND RETURN TO THE CITY USABLE EXCESS EXCAVATED MATERIAL THAT IS NOT REUSED WITHIN THE PROJECT AND SHALL COORDINATE THE LOCATION FOR EXCESS MATERIAL WITH THE OWNER.
12. THE CONTRACTOR SHALL RETURN EXCESS MILLINGS AND RECLAIMED MATERIAL THAT IS NOT REUSED IN THE PROJECT TO THE OWNER AND COORDINATE THE LOCATION FOR EXCESS MATERIAL WITH THE OWNER.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF EROSION. ALL DISTURBED EARTH SURFACES ARE TO BE STABILIZED IN THE SHORTEST PRACTICAL TIME AND TEMPORARY EROSION CONTROL DEVICES SHALL BE EMPLOYED UNTIL SUCH TIME AS ADEQUATE SOIL STABILIZATION HAS BEEN ACHIEVED. TEMPORARY STORAGE OF EXCAVATED MATERIAL IS TO BE IN A MANNER THAT WILL MINIMIZE EROSION. THE CONTRACTOR SHALL DISPOSE OF UNSUITABLE EXCAVATED MATERIAL AT A SITE PROVIDED BY HIM WHICH IS IN COMPLIANCE WITH ALL STATE AND LOCAL LAWS. MATERIALS AND METHODS USED FOR TEMPORARY EROSION CONTROL SHALL BE AS SPECIFIED BY THE "MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES" PREPARED BY THE MAINE SOIL AND WATER CONSERVATION COMMISSION.
14. A MINIMUM OF THREE COMPACTION TESTS SHALL BE PERFORMED TO THE ACCEPTANCE OF THE OWNER. SUBBASE SHALL BE COMPACTED TO 90% STANDARD PROCTOR DENSITY. GRAVEL SHALL BE COMPACTED TO A 95% STANDARD PROCTOR DENSITY. ANY SETTLEMENT OCCURRING WITHIN ONE YEAR OF SUBSTANTIAL COMPLETION OF THE PROJECT WILL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
15. OPEN TRENCHES IN THE ROADWAY MUST BE BACKFILLED AT THE END OF THE WORKDAY. OPEN TRENCHES OUTSIDE OF THE ROADWAY MAY BE LEFT OPEN IF THE CONTRACTOR PROVIDES ADEQUATELY SAFE BARRICADING AND LIGHTS.
16. CONTRACTOR SHALL CONTROL DUST TO A TOLERABLE LIMIT AS OUTLINED IN SPECIFICATION SECTION 01562. CONTRACTOR SHALL NOT TRACK OR SPILL EARTH AND DEBRIS ON PUBLIC STREETS OUTSIDE THE PROJECT AREA. STREETS OPENED TO THE PUBLIC SHALL BE KEPT SWEEP AND FREE OF DEBRIS.
17. ALL ROAD AND PARKING AREA SURFACES SHALL PITCH 1/4 INCH PER FOOT MINIMUM UNLESS OTHERWISE NOTED. ALL AREAS THAT ARE EXCAVATED, FILLED OR OTHERWISE DISTURBED BY THE CONTRACTOR WHICH ARE NOT TO BE PAVED OR FINISHED WITH BARK MULCH, SHALL BE LOAMED, GRADED, LIMED, FERTILIZED, SEEDED AND MULCHED, UNLESS OTHERWISE NOTED. THE TOP 4 INCHES OF SOIL SHALL BE LOAM. THE CONTRACTOR SHALL WATER THE SEEDED AREA TO AID IN THE ESTABLISHMENT OF THE NEW SEED.
18. INITIAL PAVING SHALL BE CONDUCTED WITHIN TWO WEEKS OF COMPLETION OF PLACEMENT OF FINAL BACKFILL UNLESS OTHERWISE AUTHORIZED BY OWNER. INITIAL PAVEMENT SHALL BE INSTALLED AND MAINTAINED BY CONTRACTOR UNTIL FINAL PAVEMENT IS PLACED. FINAL PAVEMENT MAY BE PLACED OVER THE INITIAL PAVING PROVIDED INITIAL PAVING COURSE IS IN GOOD REPAIR. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND SHIMMING THE INITIAL PAVEMENT AS NECESSARY TO ACCEPT THE FINAL PAVING COURSE. IF CONDITIONS WARRANT, THE CONTRACTOR MAY BE REQUIRED TO REMOVE AND REPLACE INITIAL PAVING PRIOR TO FINAL PAVING.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTling ALL EXISTING PROPERTY MONUMENTATION THAT IS DISTURBED BY THE OPERATIONS AT NO EXPENSE TO THE OWNER. THIS WORK IS TO BE DONE BY A LAND SURVEYOR REGISTERED IN THE STATE OF MAINE.
20. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
21. THE CONTRACTOR SHALL NOT HAVE ANY RIGHT OF PROPERTY IN ANY MATERIALS TAKEN FROM ANY EXCAVATION. SALVAGE SUITABLE EXCAVATED MATERIAL, GRANITE COBBLES, HYDRANTS, CURBSTONES, SIGNS, SURPLUS GRATES, FRAMES AND COVERS TO THE BATH PUBLIC WORKS FACILITY, TRANSPORTATION OF SAID MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THESE PROVISIONS SHALL IN NO WAY RELIEVE THE CONTRACTOR OF HIS OBLIGATIONS TO PROPERLY DISPOSE OF AND REPLACE ANY MATERIAL DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILLING. THE CONTRACTOR SHALL DISPOSE OF UNSUITABLE MATERIAL IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE CONTRACT DOCUMENTS. SUITABLE MATERIAL MAY BE INCORPORATED INTO THE PROJECT.
22. ALL STORM DRAINAGE INLETS SHALL BE PROTECTED BY HAY BALE FILTERS OR OTHER SEDIMENT REMOVAL METHODS APPROVED BY ENGINEER TO PREVENT ENTRY OF SEDIMENT FROM RUNOFF WATERS DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL COLLECTED SEDIMENT, AND THAT WHICH COLLECTS IN THE STORM DRAIN SYSTEM.
23. CONTRACTOR SHALL NOT TRACK OR SPILL EARTH, DEBRIS OR OTHER CONSTRUCTION MATERIAL ON PUBLIC OR PRIVATE STREETS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE ASSOCIATED CLEAN UP.
24. ALL CITY OF BATH UTILITIES SUCH AS CATCH BASINS, MANHOLES, VALVE PITS, AND OTHER BURIED FACILITIES WITH SURFACE ACCESS SHALL BE ADJUSTED TO MATCH FINAL GRADES, UNLESS OTHERWISE INDICATED.
25. CONTRACTOR SHALL REMOVE AND REPLACE, OR REPAIR, ALL CURBS, SIDEWALKS, PAVEMENT AND OTHER ITEMS DAMAGED BY HIS CONSTRUCTION ACTIVITIES TO AT LEAST THEIR ORIGINAL CONDITION, TO THE SATISFACTION OF THE OWNER AND ENGINEER.
26. ALL EXISTING WATER SYSTEM VALVES SHALL ONLY BE OPERATED BY THE BATH WATER DISTRICT.
27. BATH WATER DISTRICT SHALL RELOCATE AND REPLACE CURB STOPS IN THE PROJECT AREA (AS DEEMED NECESSARY BY THE ENGINEER OR DISTRICT). CONTRACTOR SHALL IDENTIFY FINAL GRADE ELEVATIONS AND LIMITS OF SIDEWALKS AND CURBS ADJACENT TO THE RIGHT OF WAY TO ALLOW BATH WATER DISTRICT TO IDENTIFY CURB STOP RELOCATIONS. THE CONTRACTOR SHALL ALSO IDENTIFY LOCATIONS OF PLANTINGS TO AVOID CONFLICTS

GENERAL NOTES (CONT.)

WITH CURB STOP/WATER SERVICE AND HYDRANT LOCATIONS

29. BATH WATER DISTRICT SHALL ADJUST EXISTING VALVE BOXES FOR MILLING AND PAVING OPERATIONS TO BE COMPLETED BY THE CONTRACTOR. CONTRACTOR TO PROVIDE ADEQUATE ADVANCE NOTICE/COORDINATION WITH BATH WATER DISTRICT.
30. CONSTRUCT TRANSITION RAMPS AT ENDS OF ALL SIDEWALKS, DRIVEWAYS AND ROADWAYS. DETECTABLE WARNING DEVICES SHALL BE INSTALLED ON ALL SIDEWALK TRANSITION RAMPS AT ROADWAY INTERSECTIONS AND AS OTHERWISE SHOWN ON THE PLANS. SIDEWALKS SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA).
31. THE CONTRACTOR IS TO TAKE SPECIAL CARE NOT TO DAMAGE TREES WITHIN THE CONSTRUCTION AREA UNLESS THEY ARE NOTED TO BE REMOVED. TREES TO BE REMOVED ARE TO HAVE THE STUMPS REMOVED AND THE RESULTING PIT SHALL BE LOAMED AND SEEDED.
32. LIMITS OF WORK IN EXISTING DRIVES ARE APPROXIMATE AS SHOWN ON THE PLANS. ACTUAL LIMITS OF WORK ARE TO BE DETERMINED BY THE CONTRACTOR BASED ON THESE DRAWINGS AND SLOPE AS APPROVED BY THE OWNER.
33. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THEIR OWN LAYDOWN AREA.
34. FENCES AND WALLS THAT ARE REMOVED FOR CONTRACTOR'S ACCESS ARE TO BE REINSTALLED THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT MOBILIZATION WORK ITEM.
35. PAVEMENT AREAS TO BE CUT, GROUND AND OVERLAID SHALL RECEIVE A TACK COAT IN ACCORDANCE WITH PROJECT SPECIFICATIONS PRIOR TO NEW PAVEMENT PLACEMENT.
36. THE CONTRACTOR SHALL RESTORE ALL PRIVATE PROPERTY DISTURBED DURING CONSTRUCTION TO ITS PRECONSTRUCTION CONDITION. THE CONTRACTOR SHALL TAKE PRECAUTIONS IN ORDER TO MINIMIZE DISTURBANCE TO PRIVATE PROPERTY. ALL REPAIRS TO PRIVATE PROPERTY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
37. THE CONTRACTOR SHALL PROVIDE NOTIFICATION TO BATH PUBLIC WORKS AT LEAST 3 DAYS PRIOR TO COMMENCING WORK.
38. THE CONTRACTOR SHALL PRODUCE AND FURNISH PROJECT RECORDS AS REQUIRED BY THE CONTRACT DOCUMENTS, INCLUDING, BUT NOT LIMITED TO CONSTRUCTION SCHEDULES, BONDS, SHOP DRAWINGS, WARRANTIES, GUARANTEES, CERTIFICATIONS, AND OTHER SUBMITTALS.
39. SAWCUTTING IS INCIDENTAL TO COMMON EXCAVATION. THERE SHALL BE NO SEPARATE PAYMENT FOR SAWCUTTING.
40. THE CONTRACTOR SHALL FOLLOW ALL ENDANGERED SPECIES ACT 4(D) RULES REGARDING THE NORTHERN LONG EARED BAT. THIS INCLUDES AVOIDANCE OF TREE REMOVAL DURING THE MONTHS OF JUNE AND JULY. CONTRACTOR SHALL PLAN ACCORDINGLY.

SURVEY AND LAYOUT NOTES

1. BOOK AND PAGE REFERENCES ARE TO THE SAGADAHOC COUNTY REGISTRY OF DEEDS.
2. NORTH IS REFERENCED TO GRID NORTH, MAINE STATE PLANE COORDINATE SYSTEM, NAD83, WEST ZONE.
3. ELEVATIONS ARE BASED ON GPS OBSERVATIONS, NAVD83 DATUM. TEMPORARY BENCHMARK (TBM#1) SPIKE SET IN UTILITY POLE. ELEVATION: 71.93'. TEMPORARY BENCHMARK (TBM#2) SPIKE SET IN UTILITY POLE. ELEVATION: 46.94'. TEMPORARY BENCHMARK (TBM#3) X CUT ON HYDRANT ELEVATION: 26.57
4. UTILITY INFORMATION ON THIS PLAN IS BASED ON LOCATIONS MARKED BY OTHERS, PLANS, AND VISUAL INSPECTION. OTHER UTILITIES MAY EXIST AND/OR UTILITIES SHOWN ON THIS PLAN MAY NOT BE EXACT. DIGSAFE AND/OR THE APPROPRIATE UTILITIES SHOULD BE CONTACTED PRIOR TO ANY CONSTRUCTION.
5. SURVEY CONDUCTED BY TITCOMB ASSOCIATES IN MARCH 2021.

LOAMING AND SEEDING NOTES

1. ALL LAWN AREAS DISTURBED BY CONSTRUCTION OPERATIONS INSIDE AND OUTSIDE THE LIMIT OF WORK SHALL BE LOAMED AND SEEDED AS DETAILED.
2. ALL AREAS TO BE SEEDED SHALL RECEIVE SOIL PREPARATION AS SPECIFIED PRIOR TO SEEDING, UNLESS OTHERWISE NOTED ON PLAN.
3. ALL AREAS TO BE SEEDED SHALL RECEIVE 4" TOPSOIL PRIOR TO SEEDING.
4. ALL AREAS TO BE SEEDED SHALL BE SEEDED WITH THE PARK MIXTURE.
5. CONTRACTOR TO PROVIDE ONE WATERING IF DEEMED NECESSARY BY OWNER AND ONE MOWING.

SITE PIPING

1. MANHOLES ARE 4' IN DIAMETER UNLESS OTHERWISE NOTED. THE TOP OF MANHOLE FRAMES SHALL BE SET FLUSH WITH FINISH GRADE, UNLESS OTHERWISE NOTED ON DRAWINGS. SEWER MANHOLE INVERTS SHOWN ON THE DRAWINGS ARE TO THE INSIDE FACE OF THE MANHOLE.
2. CONTRACTOR SHALL RE-SHAPE OR RE-BUILD REINFORCERS AS REQUIRED WHEN CONNECTION INTO EXISTING MANHOLES. NEW PENETRATIONS THROUGH EXISTING MANHOLE WALLS SHALL BE BY CORING MACHINE AND HAVE WATERTIGHT SEALS, UNLESS OTHERWISE INDICATED. REFER TO SPECIFICATION SECTION 02601.
3. REFER TO SPECIFICATION SECTION 02200 FOR PIPE AND STRUCTURE BEDDING AND BACKFILL REQUIREMENTS.
4. COMPACTION TESTS WILL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 02200. ANY SETTLEMENT OCCURRING WITHIN ONE YEAR OF FINAL COMPLETION OF THE WORK SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST.
5. 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.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL DEMOLITION MATERIALS IN ACCORDANCE WITH SPECIFICATION SECTION 02050.
7. WHERE POSSIBLE, WATER LINES SHOULD BE INSTALLED OVER WASTEWATER LINES. A MINIMUM SEPARATION OF 18" BETWEEN THE BOTTOM OF THE WATER LINE AND THE TOP OF THE WASTEWATER LINE SHALL BE MAINTAINED. WHERE A WATER LINE CROSSES UNDER A WASTEWATER LINE, A FULL LENGTH OF PIPE SHALL BE CENTERED ABOVE THE WATER LINE SO THAT BOTH JOINTS WILL BE AS FAR FROM THE WATER LINE AS POSSIBLE.

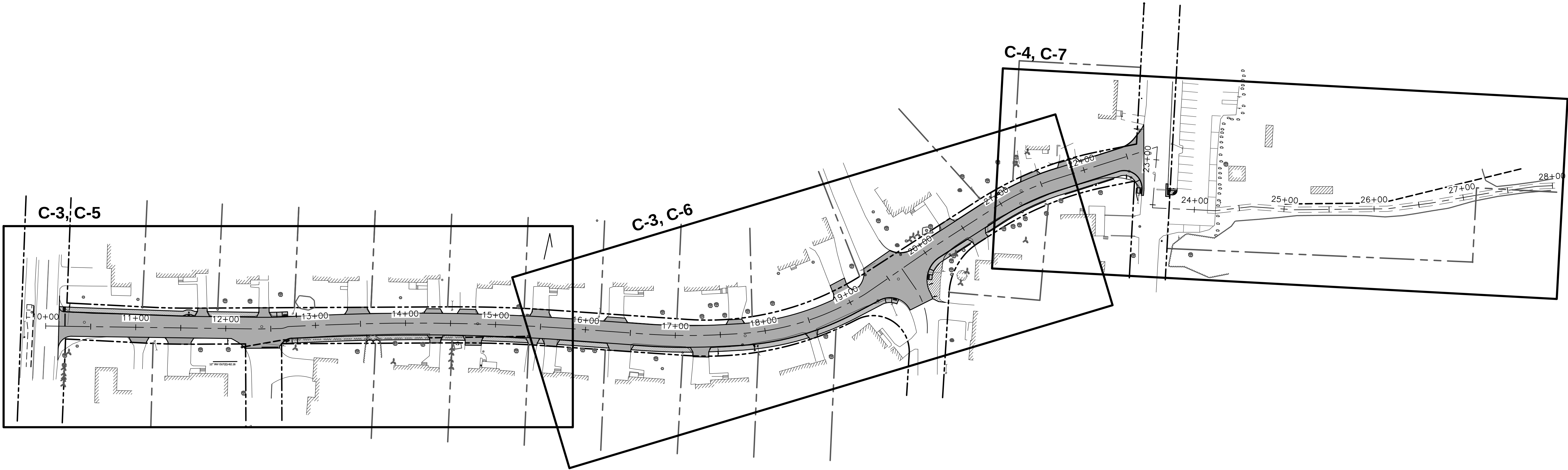
CIVIL ABBREVIATIONS

Ø, DIA	AND
#, NO	DIAMETER
APP'D	NUMBER
BLDG	APPROVED
CB	BUILDING
CEN	CATCH BASIN
CFS	CENTER
CI	CUBIC FEET PER SECOND
CL	CAST IRON
CMP	CENTERLINE
CO	CORRUGATED METAL PIPE
CONC	CLEANOUT
COR	CONCRETE
CY	CORNER
DEMO	CUBIC YARD
DMH	DEMOLITION
DI	DRAIN MANHOLE
DR	DUCTILE IRON
DWG	DUCT
EL	DRAINING
EMH	ELEVATION
FM	ELECTRIC MANHOLE
FT	FORCE MAIN
G	FEET
HYD	GAS
IN	HYDRANT
INF	INCH
INV	INFLUENT
LBS	INVERT
MAX	POUNDS
MH	MAXIMUM
MIN	MANHOLE
MW	MINIMUM
N	MONITORING WELL
NGVD	NORTH
N/A	NATIONAL GEODETIC VERTICAL DATUM
NTS	NOT AVAILABLE/APPLICABLE
OD	NOT TO SCALE
PC	OUTSIDE DIAMETER
PSF	PERFORATED CLAY
PSI	POUNDS PER SQUARE FOOT
PS	POUNDS PER SQUARE INCH
PT	PRIMARY SLUDGE
PVC	POINT OF TANGENCY
RCP	POLYVINYL CHLORIDE
RD	REINFORCED CONCRETE PIPE
REQ'D	ROOF DRAIN
S	REQUIRED
SD	SLOPE, SEWER
SF	STORM DRAIN
SMH	SQUARE FEET
SQ	SANITARY SEWER MANHOLE
STA	SQUARE
T, XFMR	STATION
TBM	TRANSFORMER
THK	TEMPORARY BENCH MARK
TOS	THICKNESS
TYP	TOP OF STRUCTURE
UD	TYPICAL
UG	UNDERDRAIN
UGE	UNDERGROUND
VC	UNDERGROUND ELECTRIC
W/	VITRIFIED CLAY
W	WITH
	POTABLE WATER

LEGEND

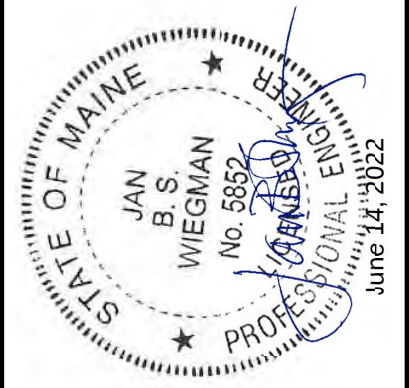
EXISTING	PROPERTY/ROW LINE	PROPOSED
	PROPERTY/ROW LINE	
	SETBACK LINE	
	EASEMENT LINE	
	CENTERLINE	
	EDGE OF PAVEMENT	
	CURBING	
	EDGE OF GRAVEL	
	EDGE OF CONCRETE	
	CONTOUR	
	BUILDING	
	STONEWALL	
	TREELINE	
	CHAIN LINK FENCE	
	STOCKADE FENCE	
	BARB WIRE FENCE	
	RETAINING WALL	
	GUARDRAIL	
	SEWER	
	SEWER FORCE MAIN	
	GAS	
	WATER	
	STORM DRAIN	
	UNDERDRAIN	
	CULVERT	
	UNDERGROUND ELECTRIC	
	OVERHEAD ELECTRIC	
	UNDERGROUND TELEPHONE	
	UNDERGROUND CABLE TV	
	IRON PIPE/REBAR	
	DRILLHOLE	
	MONUMENT	
	SURVEY CONTROL POINT	
	SPOT ELEVATION	
	SEWER MANHOLE	
	DRAINAGE MANHOLE	
	CATCH BASIN	
	ELECTRIC MANHOLE	
	TELEPHONE MANHOLE	
	SHUTOFF VALVE	
	WATER SERVICE SHUTOFF	
	YARD HYDRANT	
	HYDRANT	
	GAS SERVICE SHUTOFF	
	GAS GATE VALVE	
	UTILITY POLE	
	UTILITY POLE W/ GUY	
	UTILITY POLE W/ LIGHT	
	LIGHT POLE	
	BOLLARD	
	FLAGPOLE	
	CONIFEROUS TREE	
	DECIDUOUS TREE	
	SHRUB	
	WETLAND FLAG	
	EDGE OF WATER	
	STREAM	
	EDGE OF WETLANDS	
	FLOODPLAIN	
	WETLANDS	
	DRAINAGE FLOW	
	DRAINAGE SWALE	
	PAVEMENT MARKINGS	
	SIGN	
	MAILBOX	
	TEMPORARY BENCH MARK	
	TEST PIT	
	TEST BORING	
	TEST PROBE	
	MONITORING WELL	
	LIMIT OF WORK	
	SILT FENCE	
	RIPRAP	
	RAILROAD	
	MATCHLINE	
	ROCK OUTCROP	
	FILL LINE	
	CUT LINE	
	PAVEMENT TO BE RECLAIMED	
	HEAVY DUTY PAVEMENT	
	NORMAL DUTY PAVEMENT	
	SIDEWALK PAVEMENT	

DRAWING	CITY OF BATH, MAINE CRAWFORD DRIVE SIDEWALK AND ROAD IMPROVEMENTS		 207-725-8721 www.wright-pierce.com 11 BOWDOIN MILL ISLAND, SUITE 140 TOPSHAM, ME 04876				PROJECT NO: 20533	NO	REVISIONS	APP'D. DATE
	DESIGNED: LKREMER	△								
GENERAL NOTES, LEGEND, AND ABBREVIATIONS							CAD COORD: M.LAPIERRE	△		
							CAD: M.LAPIERRE	△		
							CHECKED: NEDWARDS	△		
							DATE: 6-14-2022	△		
							APPROVED: J.WIEGMAN DATE: 6-14-2022	△		
							SUBMISSION: CONTRACT DRAWINGS	△		

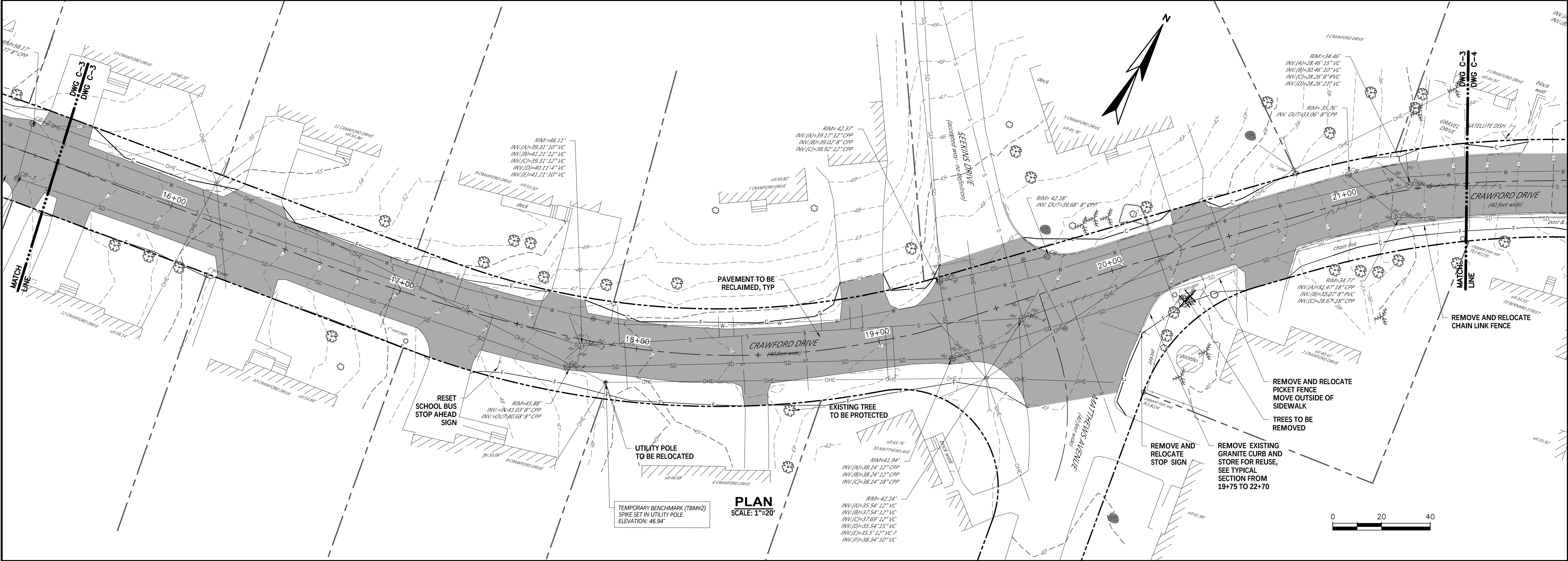
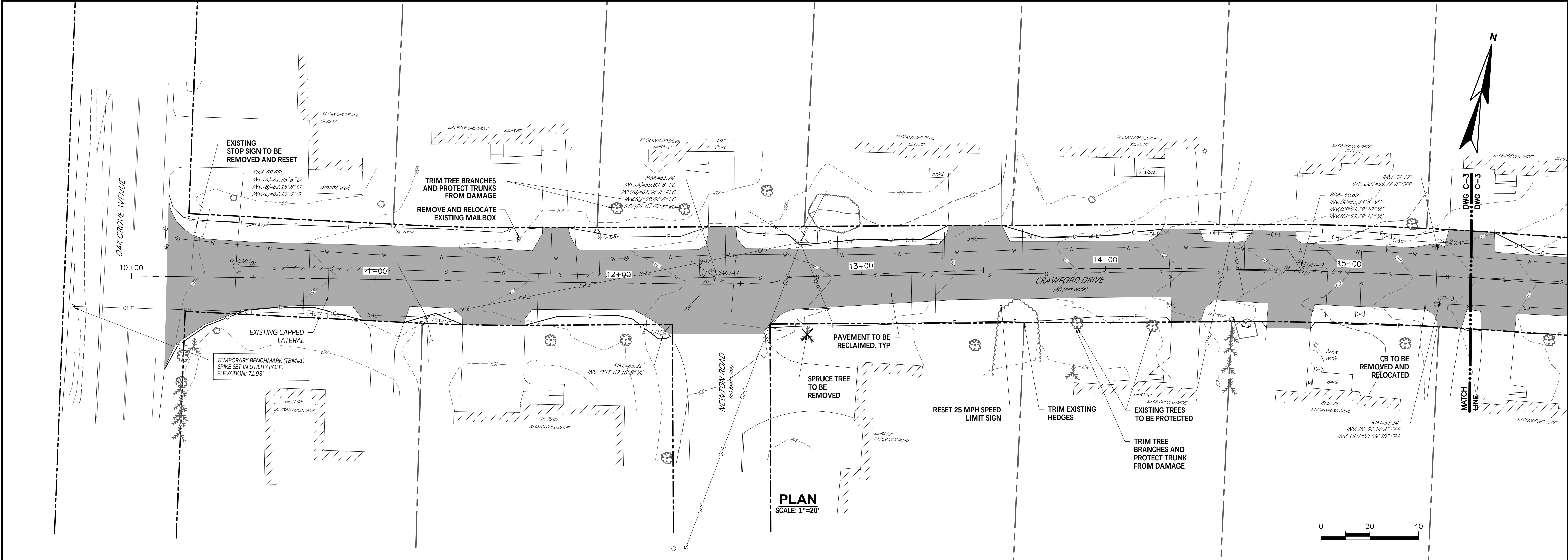


OVERVIEW PLAN
SCALE: 1"=60'

DRAWING	CITY OF BATH, MAINE CRAWFORD DRIVE SIDEWALK AND ROAD IMPROVEMENTS		OVERVIEW PLAN		PROJECT NO. 20533 DESIGNED: L. KREMER CAD COORD: M. LAPIERRE CAD: M. LAPIERRE CHECKED: N. EDWARDS DATE: 6-14-2022 APPROVED: J. WIEGMAN DATE: 6-14-2022 SUBMISSION: CONTRACT DRAWINGS	NO	NO	REVISIONS		APP'D	DATE
	C-2					1	1				



WRIGHT-PIERCE
207-725-8721 | www.wright-pierce.com
11 BOWDOIN MILL ISLAND, SUITE 140 TOPSHAM, ME 04076



REVISIONS		APPD	DATE
NO	Δ		
1	Δ		
2	Δ		
3	Δ		
4	Δ		
5	Δ		

PROJECT NO: 20533	DESIGNED: LKIMER
CAD COORD: MLAPIERRE	CAD: MLAPIERRE
CHECKED: N.EDWARDS	DATE: 6-14-2022
APPROVED: J.WEIGMAN	DATE: 6-14-2022
SUBMISSION: CONTRACT DRAWINGS	

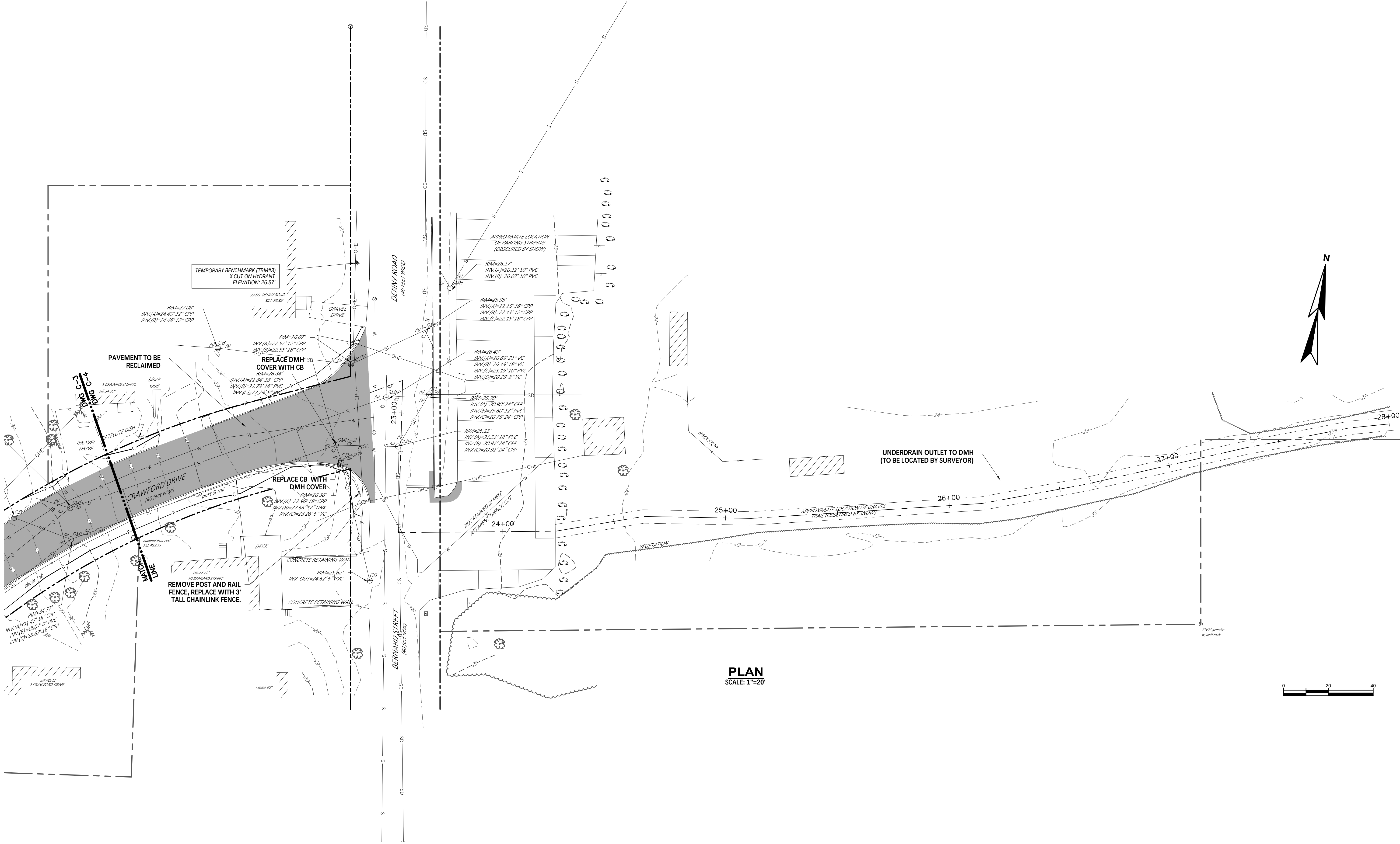
207-725-8721 | www.wright-pierce.com

11 BOWDOIN MILL ISLAND, SUITE 140 TOPSHAM, ME 04076

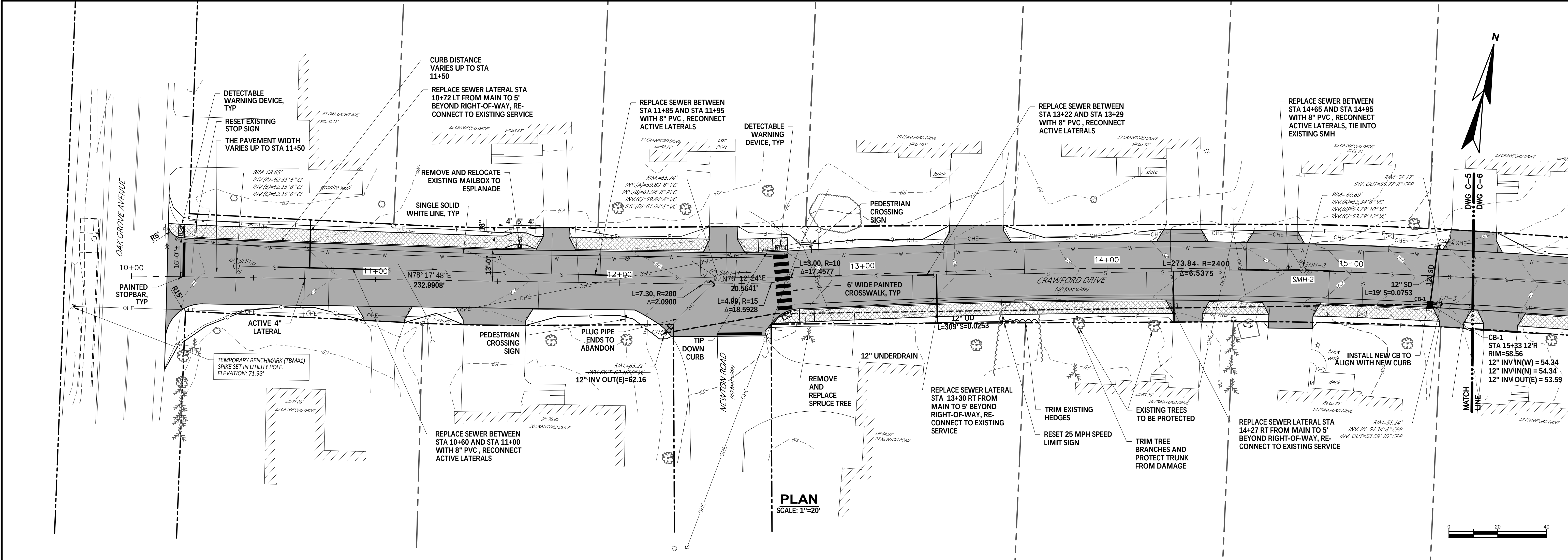
CITY OF BATH, MAINE
CRAWFORD DRIVE
SIDEWALK AND ROAD IMPROVEMENTS

EXISTING CONDITIONS AND DEMOLITION PLAN 1

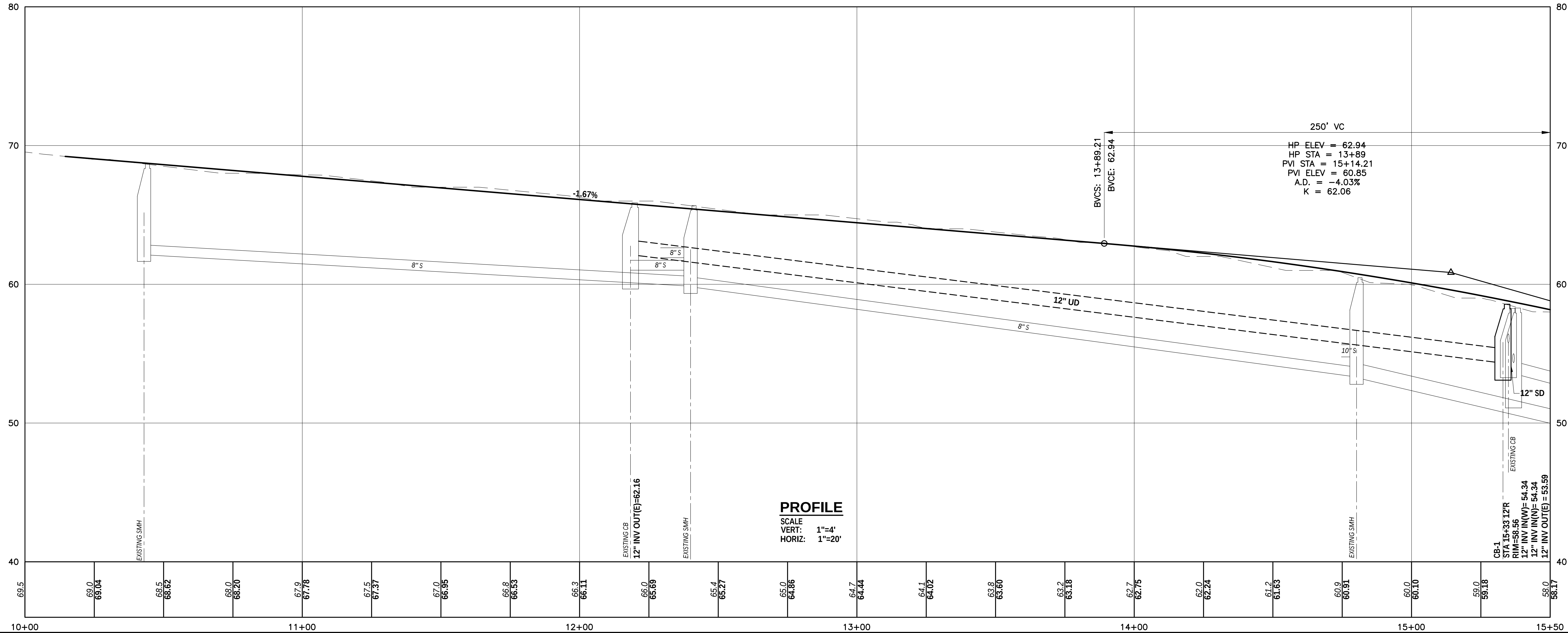
DRAWING
C-3



DRAWING		CITY OF BATH, MAINE CRAWFORD DRIVE SIDEWALK AND ROAD IMPROVEMENTS		WRIGHT-PIERCE 207-725-8721 www.wright-pierce.com 11 BOWDOIN MILL ISLAND, SUITE 140 TOPSHAM, ME 04076						REVISIONS		APPD. DATE	
C-4	EXISTING CONDITIONS AND DEMOLITION PLAN II							PROJECT NO: 20533		NO			
								DESIGNED: LKREMER		A			
								CAD COORD: MLAPIERRE		A			
								CAD: MLAPIERRE		A			
								CHECKED: NEDWARDS		A			
								DATE: 6-14-2022					
								APPROVED: J.WEIGMAN		A			
								DATE: 6-14-2022		A			
								SUBMISSION: CONTRACT DRAWINGS		A			



PLAN
SCALE: 1"=20'



PROFILE
SCALE
VERT: 1"=4'
HORIZ: 1"=20'

REVISIONS		APPROVED	DATE
NO			

PROJECT NO:	20533
DESIGNED BY:	LKIMER
CAD COORD:	MLAPIERRE
CAD:	MLAPIERRE
CHECKED:	N.EDWARDS
DATE:	6-14-2022
APPROVED:	J.WEIGMAN
DATE:	6-14-2022
SUBMISSION:	CONTRACT DRAWINGS

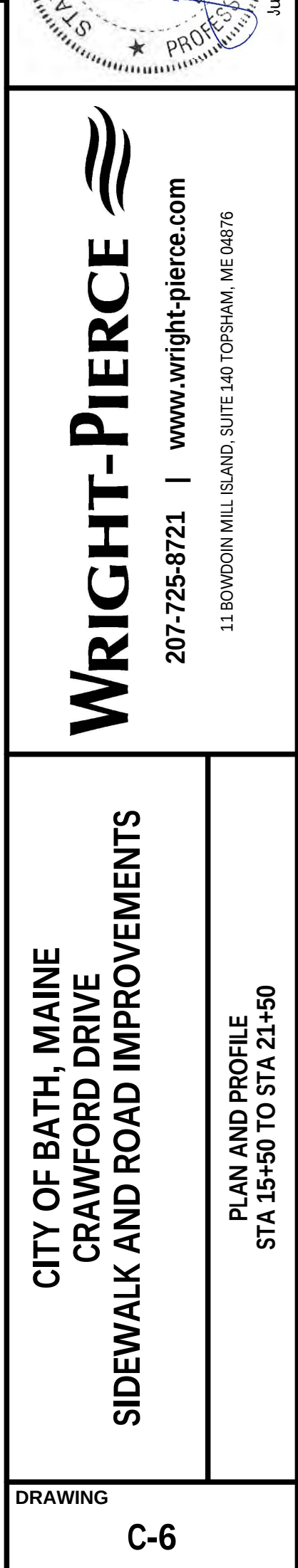
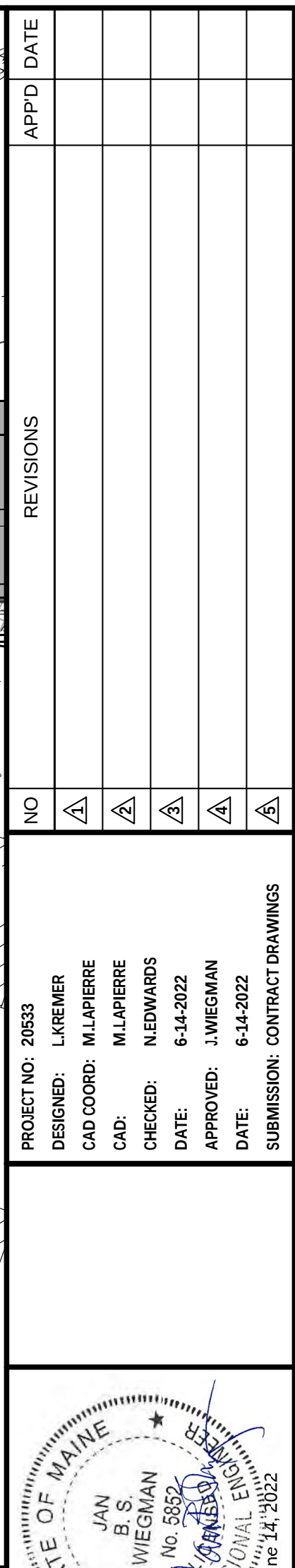
STATE OF MAINE
JAN B.S.
WIEGMAN
NO. 5583
REGISTERED PROFESSIONAL ENGINEER
JUNE 14, 2022

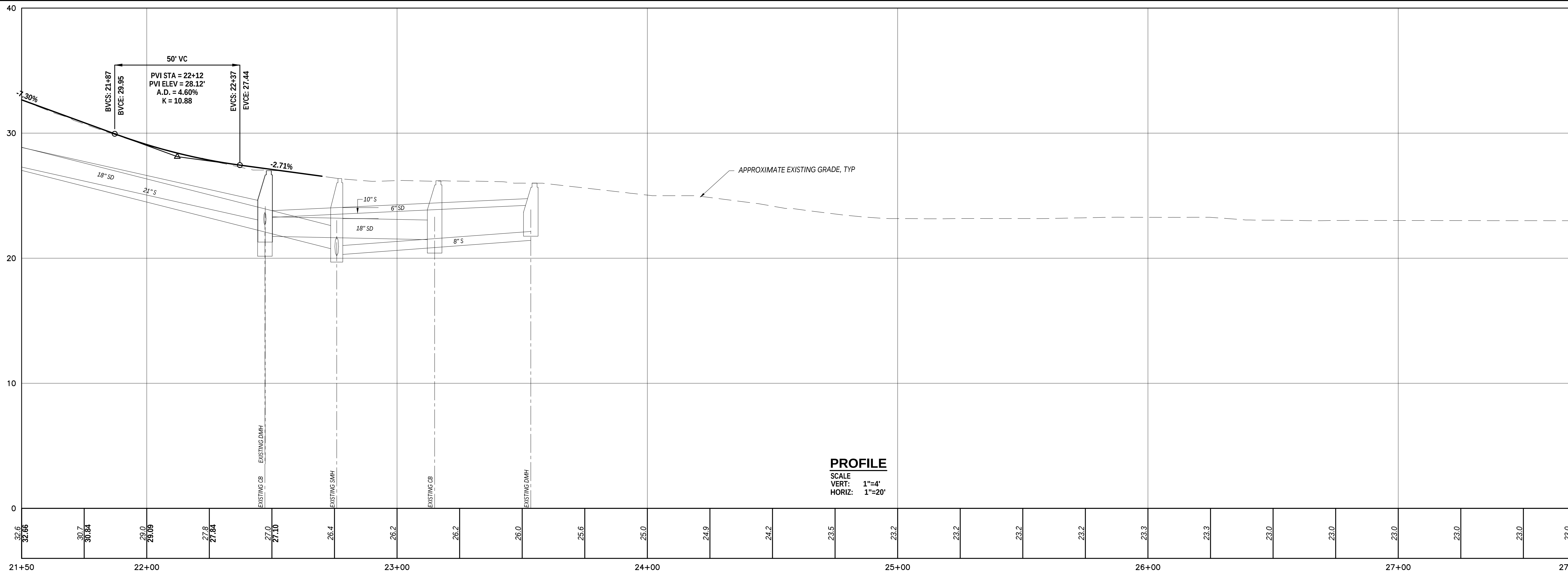
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CITY OF BATH, MAINE
CRAWFORD DRIVE
SIDEWALK AND ROAD IMPROVEMENTS

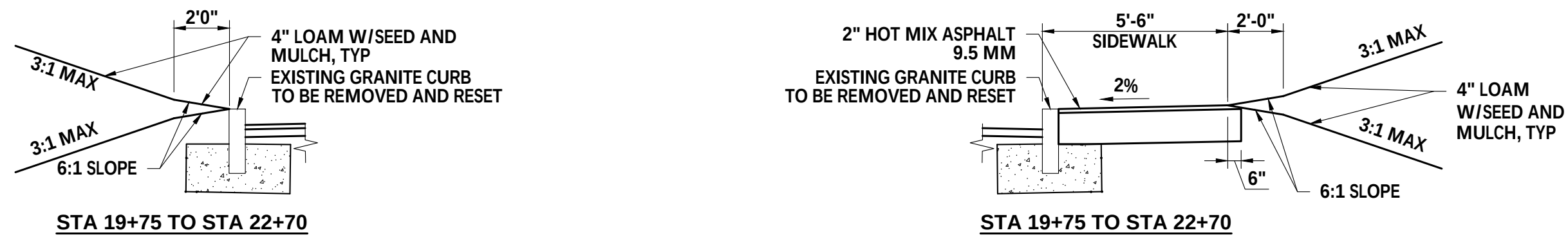
PLAN AND PROFILE
STA 10+00 TO STA 15+50

DRAWING
C-5

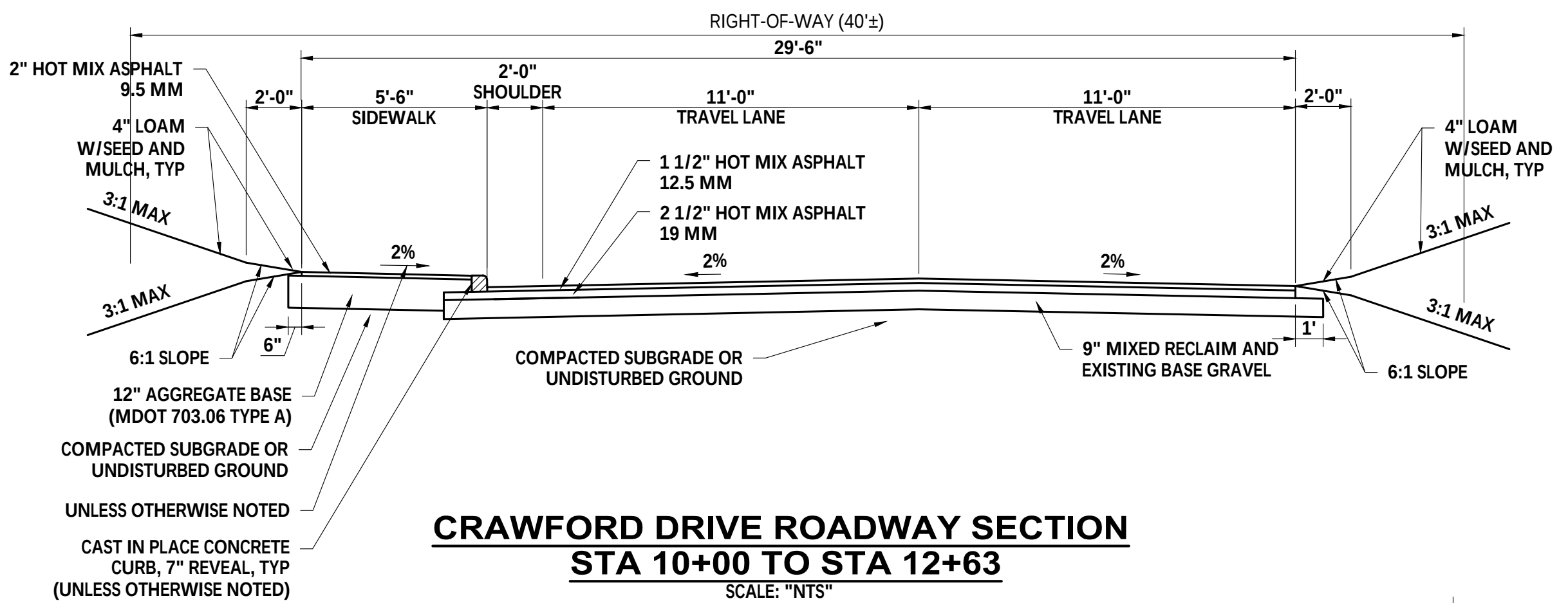




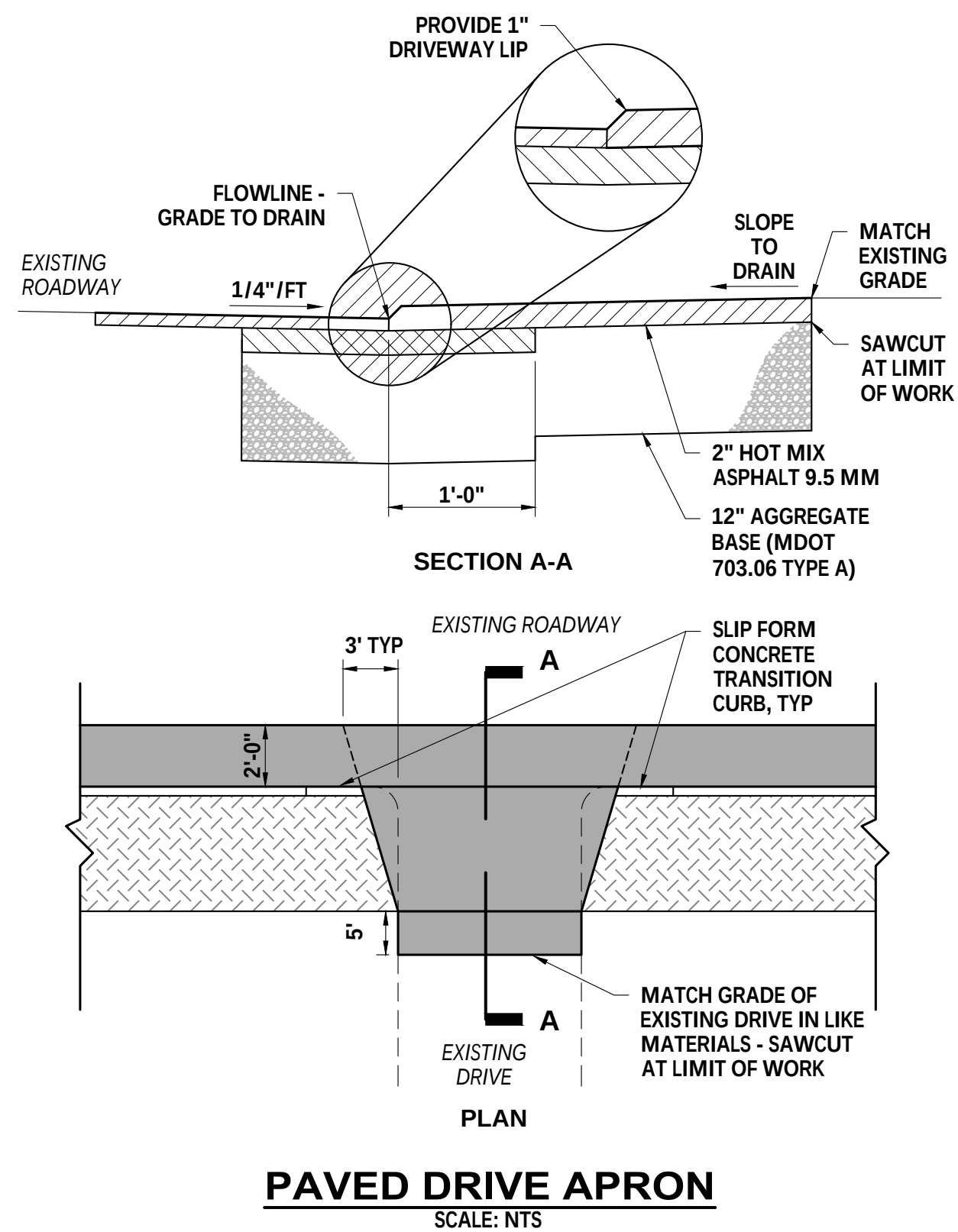
CITY OF BATH, MAINE CRAWFORD DRIVE SIDEWALK AND ROAD IMPROVEMENTS	PLAN AND PROFILE STA 21+50 TO STA 28+00	DRAWING C-7
	WRIGHT-PIERCE 207-725-8721 www.wright-pierce.com 11 BOWDOIN MILL ISLAND, SUITE 140 TOPSHAM, ME 04876	



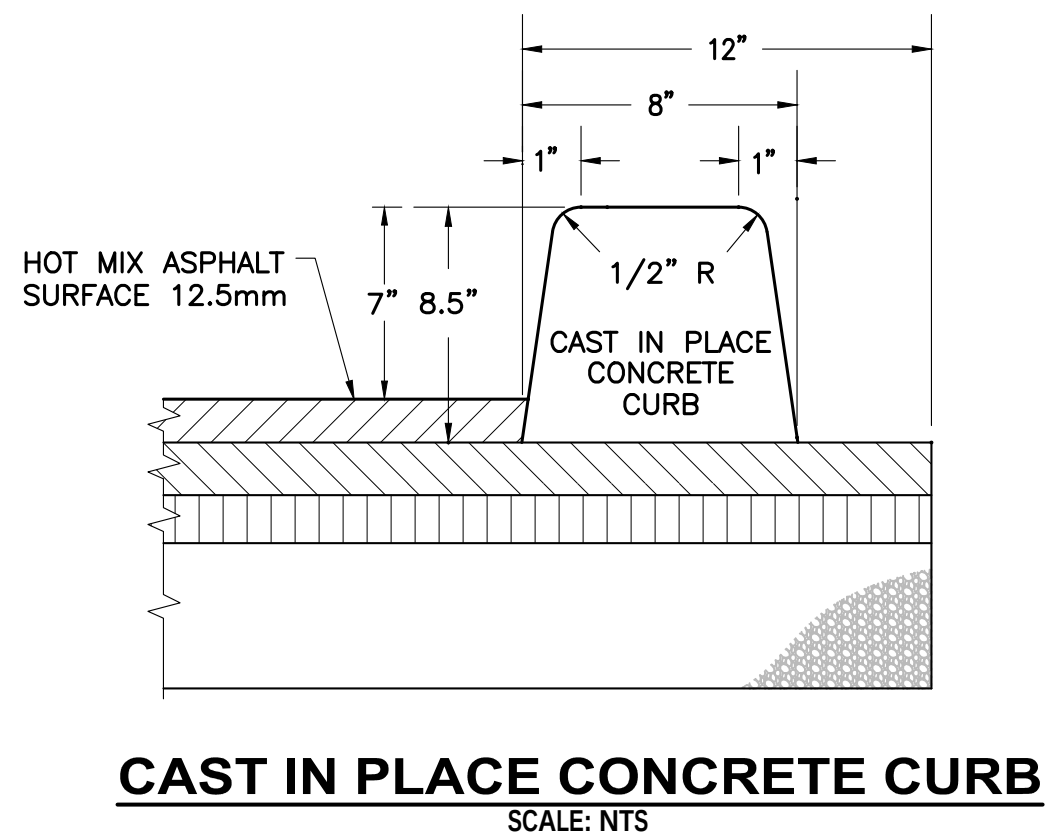
CRAWFORD DRIVE ROADWAY SECTION
STA 12+63 TO STA 22+70
SCALE: "NTS"



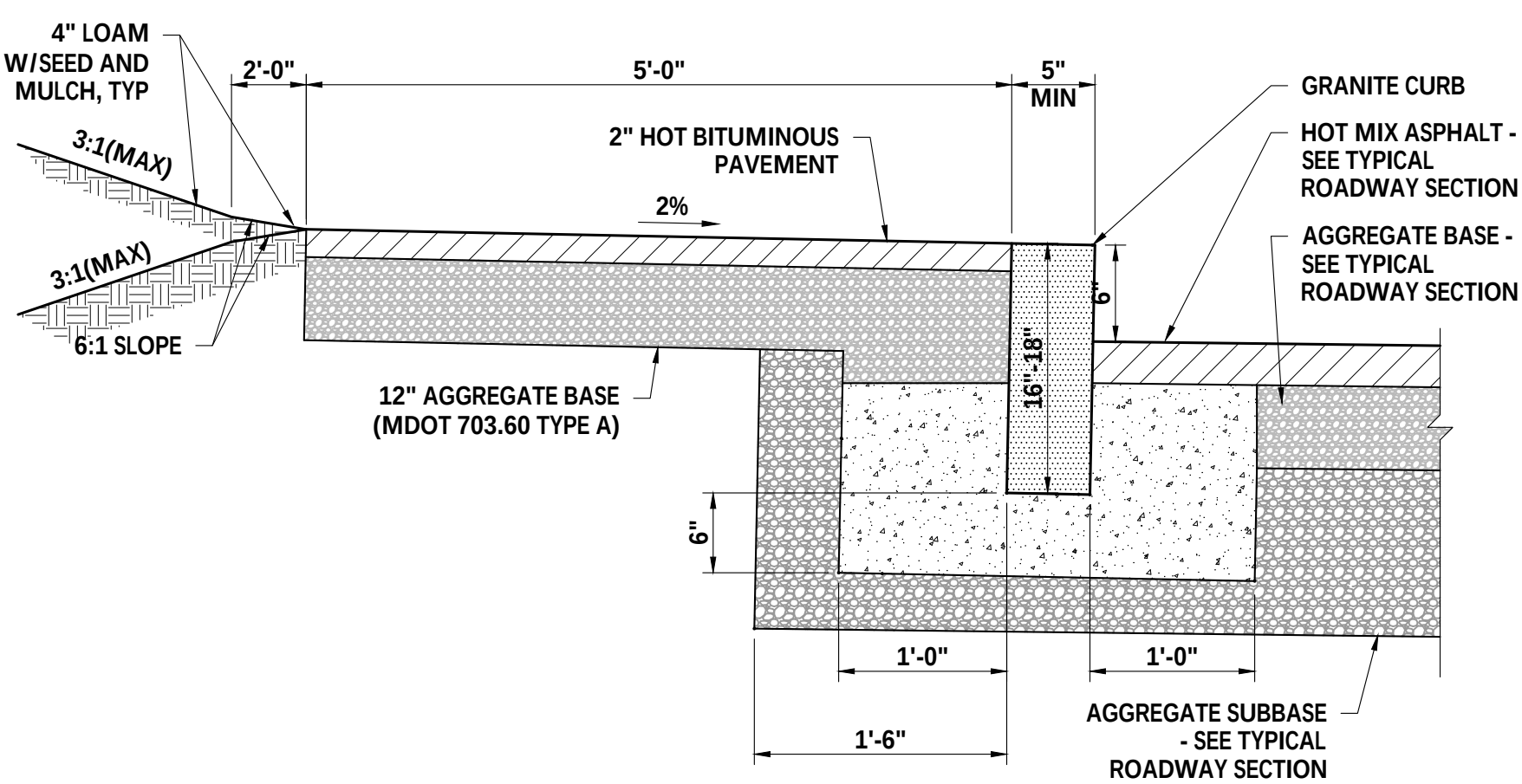
CRAWFORD DRIVE ROADWAY SECTION
STA 10+00 TO STA 12+63
SCALE: "NTS"



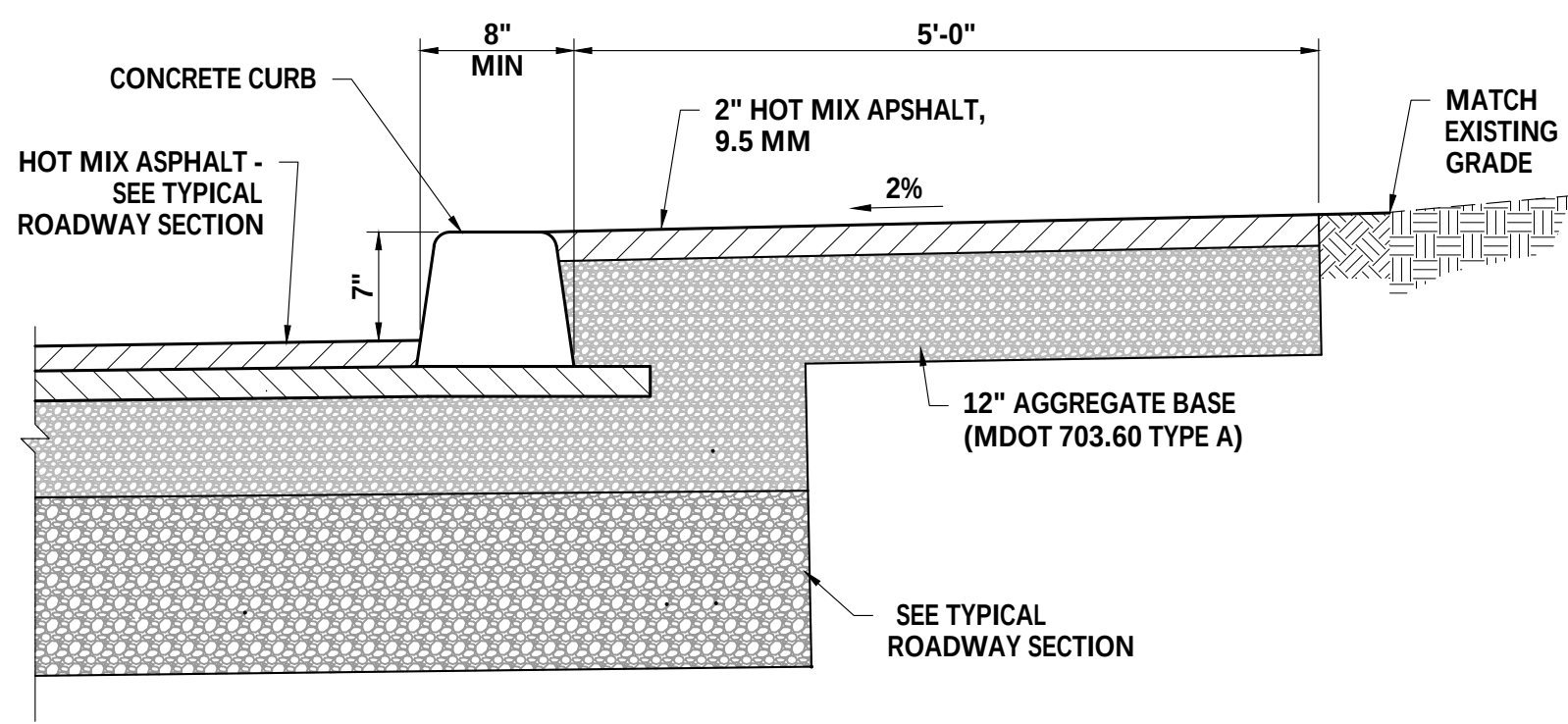
PAVED DRIVE APRON
SCALE: NTS



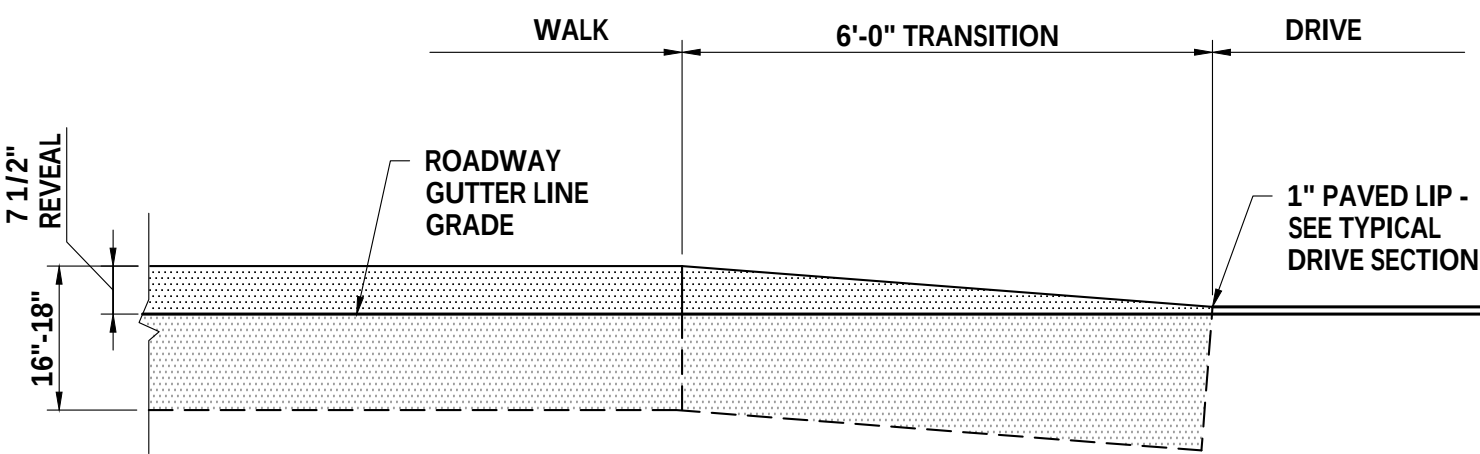
CAST IN PLACE CONCRETE CURB
SCALE: NTS



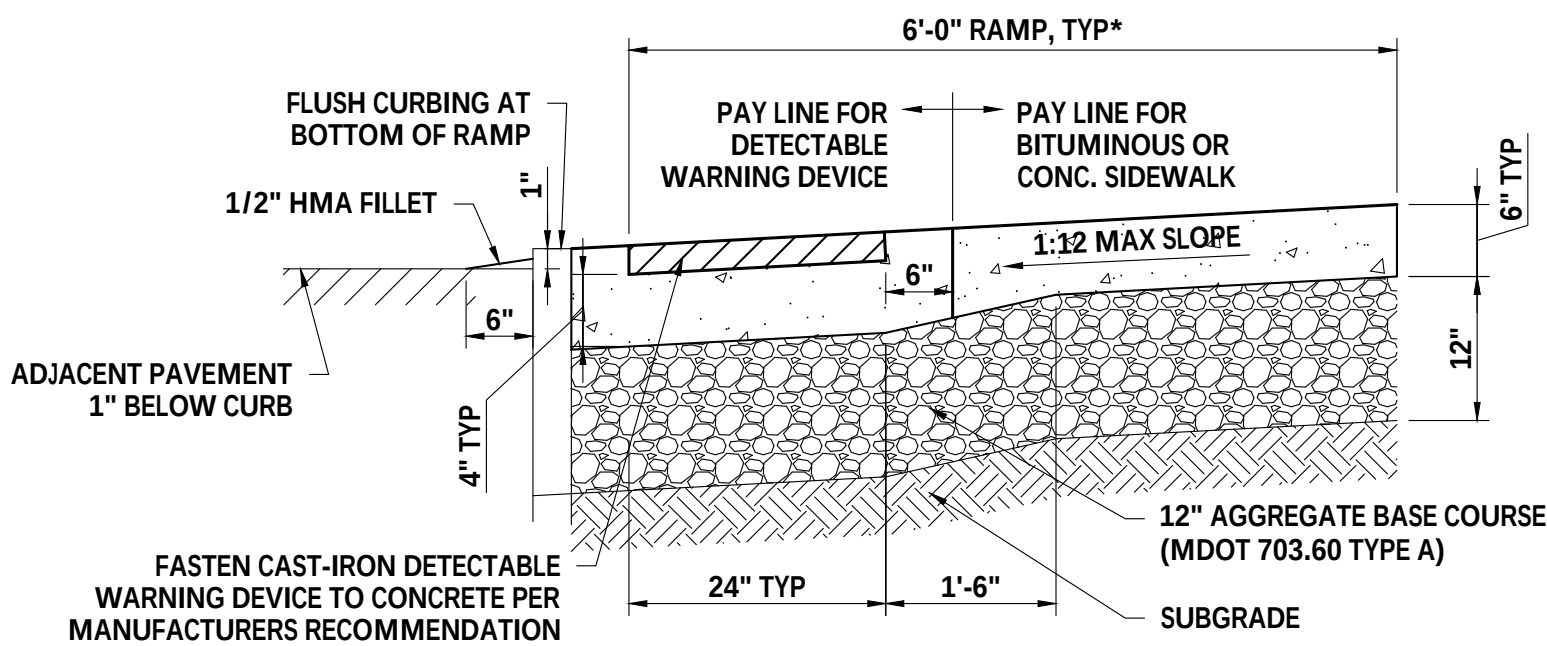
GRANITE CURB WITH CONCRETE
SCALE: NTS



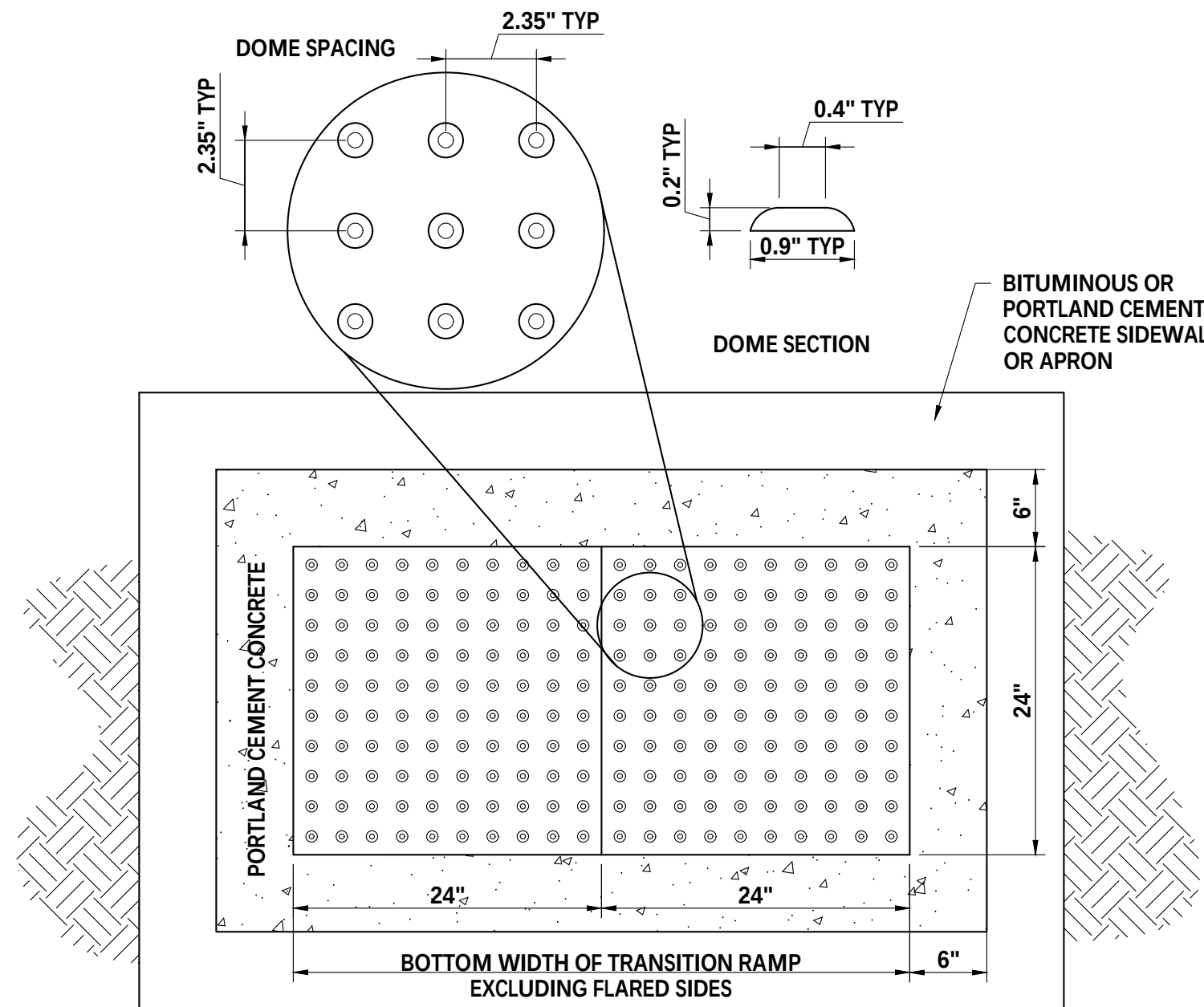
CONCRETE CURB WITH BITUMINOUS SIDEWALK
SCALE: NTS



GRANITE CURB TRANSITION
SCALE: NTS

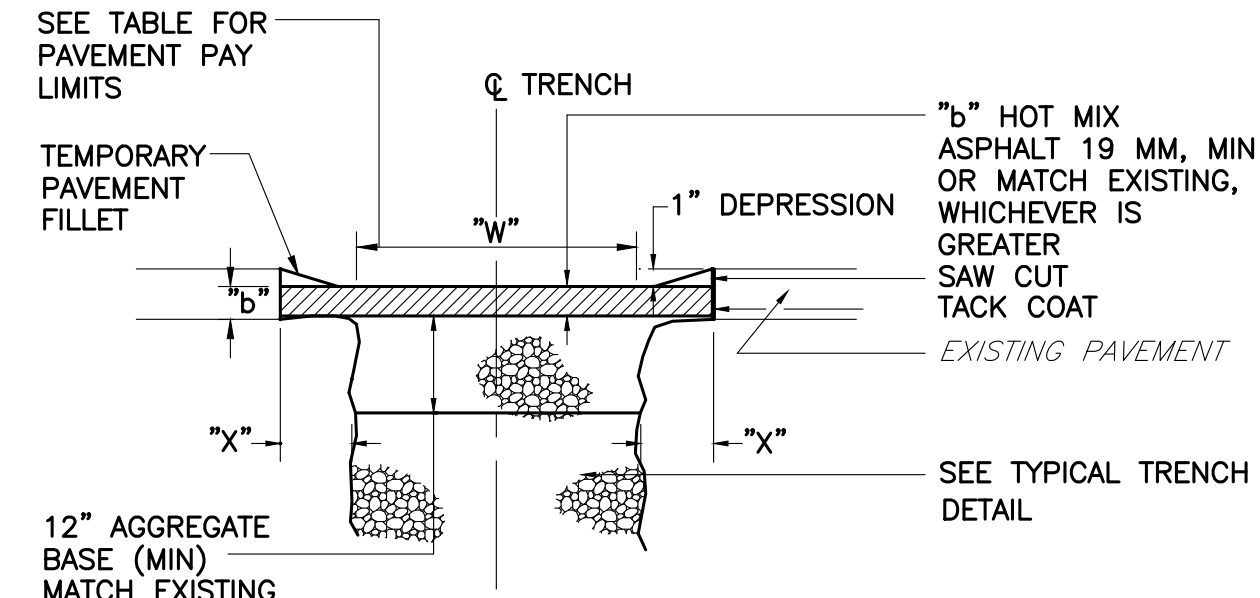


SECTION - CAST IRON DETECTABLE WARNING DEVICE

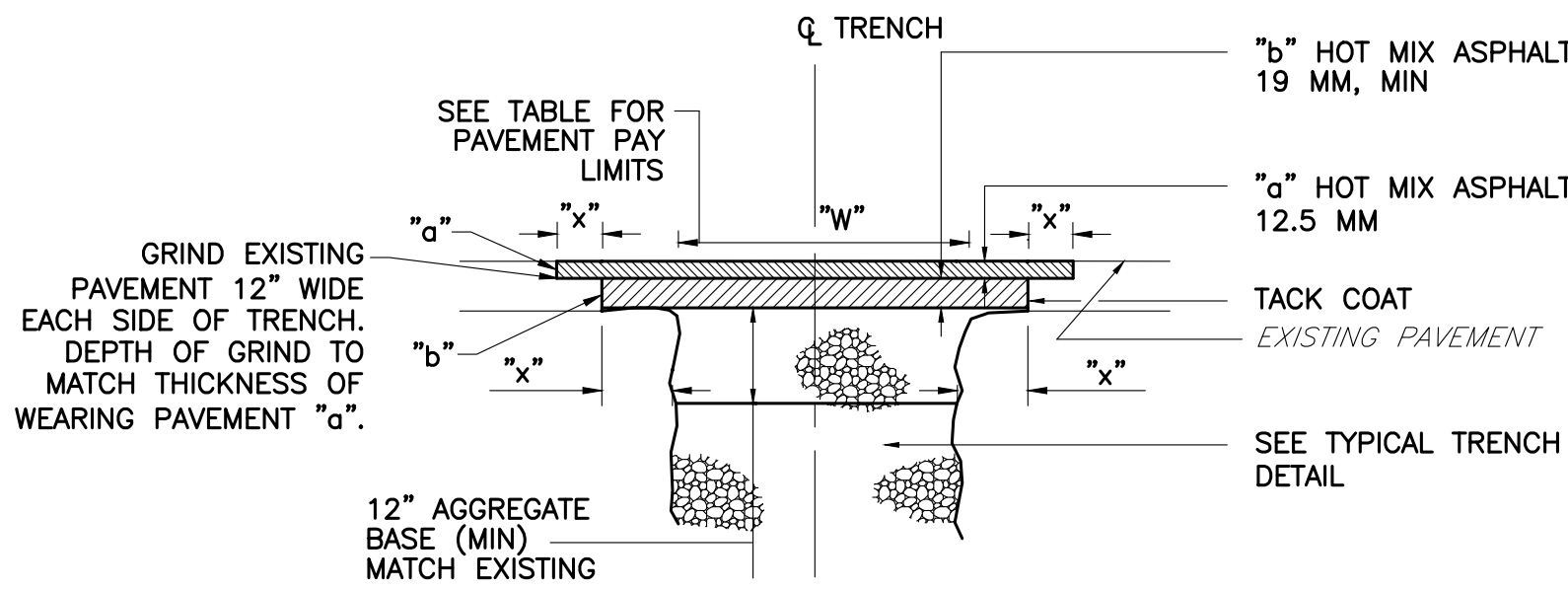


- NOTE:
1. ALL DETECTABLE WARNING DEVICES SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG). 2'x2', 2'x4' AND RADIUS DEVICES ARE ACCEPTABLE.
 2. INSTALL DETECTABLE WARNING DEVICES AT ALL ROADWAYS, HIGH USE ACCESS WAYS, OR AT THE DIRECTION OF THE ENGINEER.
 3. ALL DEVICES SHALL HAVE A MIN. 6" WIDTH PORTLAND CEMENT CONCRETE SURROUND REGARDLESS OF THE SURROUNDING WALK OR APRON MATERIAL.

**RECTANGULAR CAST IRON HANDICAP
DETECTABLE WARNING DEVICE DETAIL**
SCALE: NTS



INITIAL TRENCH PAVING



FINAL TRENCH PAVING
SCALE: NTS

NOTE:
INITIAL TRENCH PAVING MAY BE USED AS THE BASE COURSE FOR FINAL PAVING IF IN GOOD REPAIR AND OF THE MINIMUM REQUIRED THICKNESS.

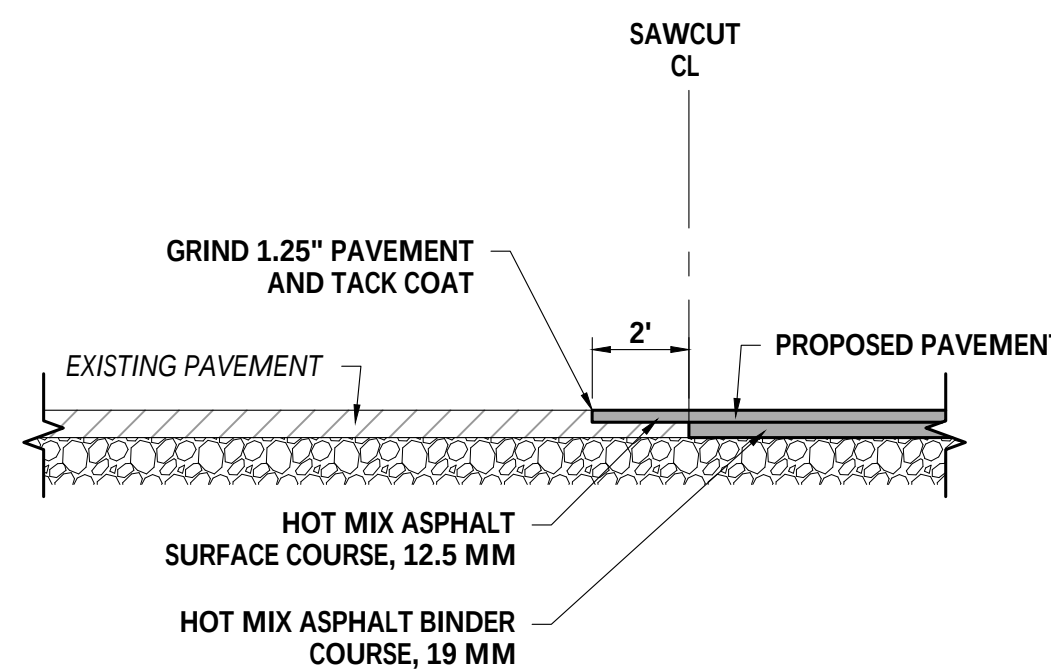
LOCATION	WEARING "a"	BINDER "b"	"x"
ALL STREETS	1 1/2"	2 1/2"	1"

PAVING SCHEDULE

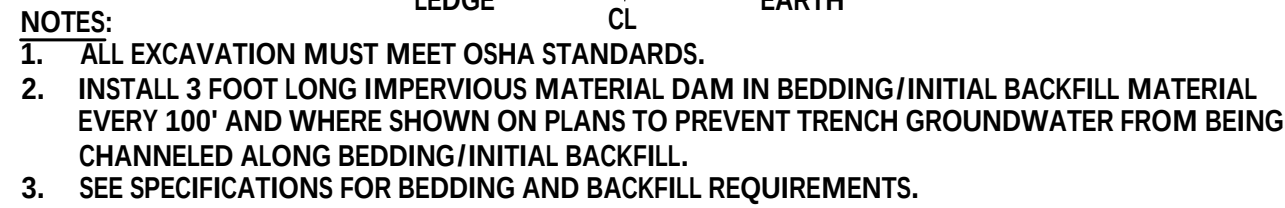
PIPE ID	W (FOR 0'-10' DEEP TRENCH)
6"-30"	7'

NOTE: "W" SHALL BE INCREASED BY 1' FOR TRENCHES 10'-15' DEEP AND BY 2' FOR TRENCHES 15'-20' DEEP.

TRENCH PAVEMENT PAY LIMITS



SHIPLAP PAVEMENT JOINT
SCALE: "NTS"



SCALE: "NTS"



SCALE: NTS



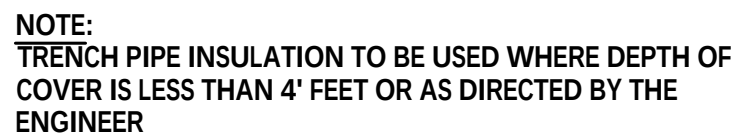
- 1. THE SIDEWALK WIDTH WILL BE PAVED IN ALL CASES.**

- 2. ALL RESIDENTIAL OR COMMERCIAL DRIVES 10% AND OVER WILL BE PAVED**

NOTES ON MAXIMUM DRIVEWAY PROFILES:

1. THESE PROFILES ARE A GUIDE FOR THE MAJORITY OF CASES, BUT SHOULD BE FIELD CHECKED WHEN THE MAIN LINE GRADE IS STEEP (4% TO 6% OR GREATER) OR THE ANGLE OF APPROACH TO THE DRIVE IS UNUSUAL.
2. GENERALLY THE MAJORITY OF DRIVES ON A PROJECT WILL BE BUILT WITH FLATTER PROFILES THAN THESE MAXIMUM CASES.
3. WHEN GRADING DRIVES WHICH ARE FLATTER THAN THE MAXIMUM PROFILES THE FOLLOWING RULE OF THUMB SHOULD BE USED: DO NOT EXCEED A GRADE % CHANGE OF MORE THAN 8% IN A 20' INCREMENT OF DRIVEWAY LENGTH. THIS APPLIES TO BOTH UP AND DOWN PROFILES. ALL RESIDENTIAL OR COMMERCIAL DRIVES 10% AND OVER WILL BE PAVED

NTS



SCALE: NTS



SCALE: "NTS"



SCALE: NTS

- NOTES:**
1. JOINTS ON EACH PIPE TO BE AS FAR FROM INTERSECTION AS POSSIBLE.
 2. IF LESS THAN 12", FLOWABLE FILL MAY BE REQUIRED RATHER THAN SCREENED STONE TO FACILITATE PROPER PIPE BEDDING AND COMPACTION AT ENGINEER'S DISCRETION. REFER TO SPECIFICATIONS SECTION 02225 FOR ADDITIONAL INFORMATION.

SCALE: NTS



SCALE: "NTS"

- NOTE:**

1. USE NEENAH FOUNDRY CURB INLET R-3305 - OR
EQUAL AS APPROVED BY ENGINEER



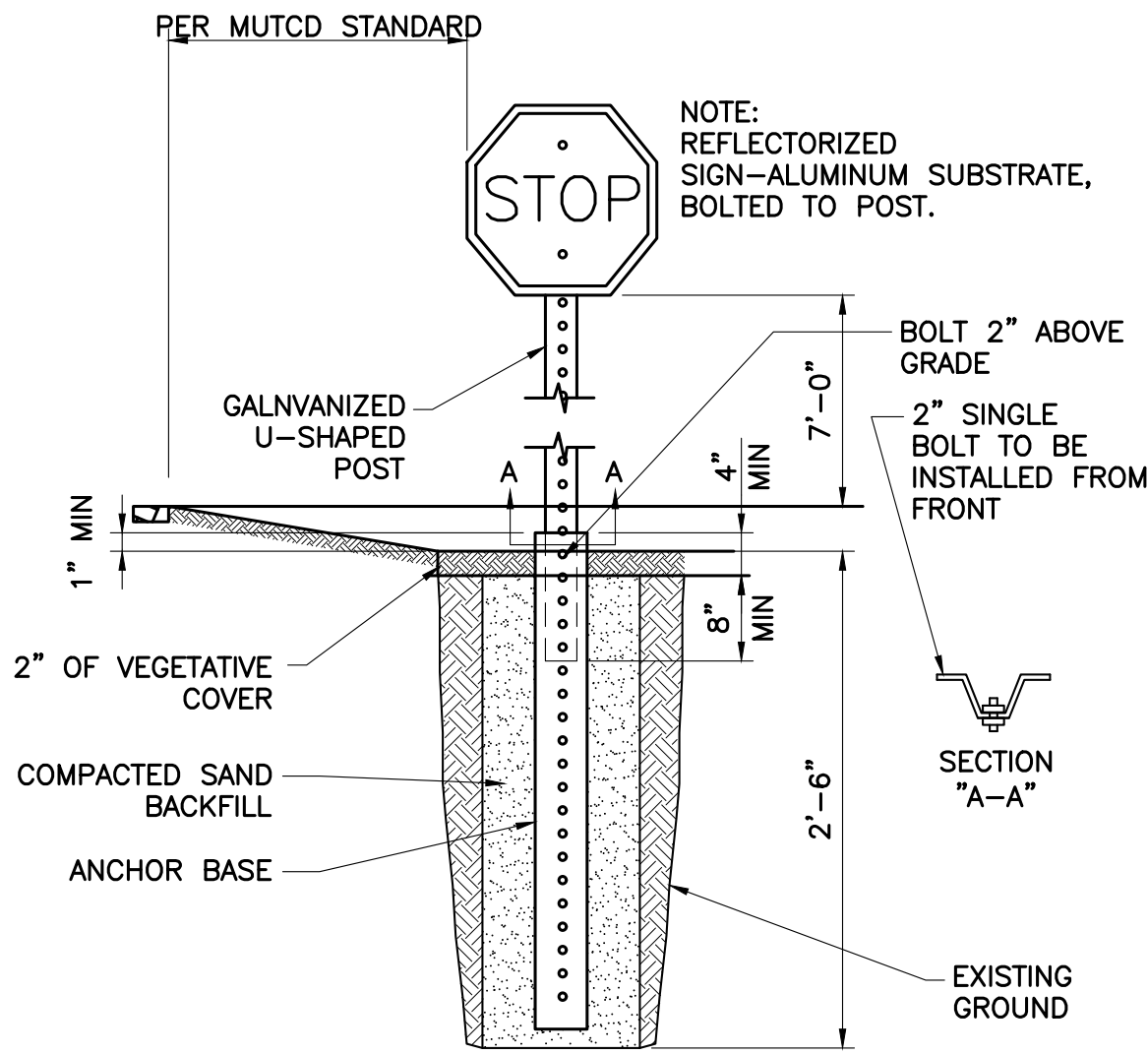
SECTION



SECTION

SCALE: NTS

DRAWING	C-9	CITY OF BATH, MAINE CRAWFORD DRIVE SIDEWALK AND ROAD IMPROVEMENTS	WRIGHT-PIERCE 207-725-8721 www.wright-pierce.com 11 BOWDOIN MILL ISLAND, SUITE 140 TOPSHAM, ME 04876			PROJECT NO: 20533 DESIGNED: LKREMER CAD COORD: M.LAPIERRE CAD: M.LAPIERRE CHECKED: NEDWARDS DATE: 6-14-2022 APPROVED: J.WIEGMAN DATE: 6-14-2022 SUBMISSION: CONTRACT DRAWINGS	NO	REVISIONS	APP'D. DATE
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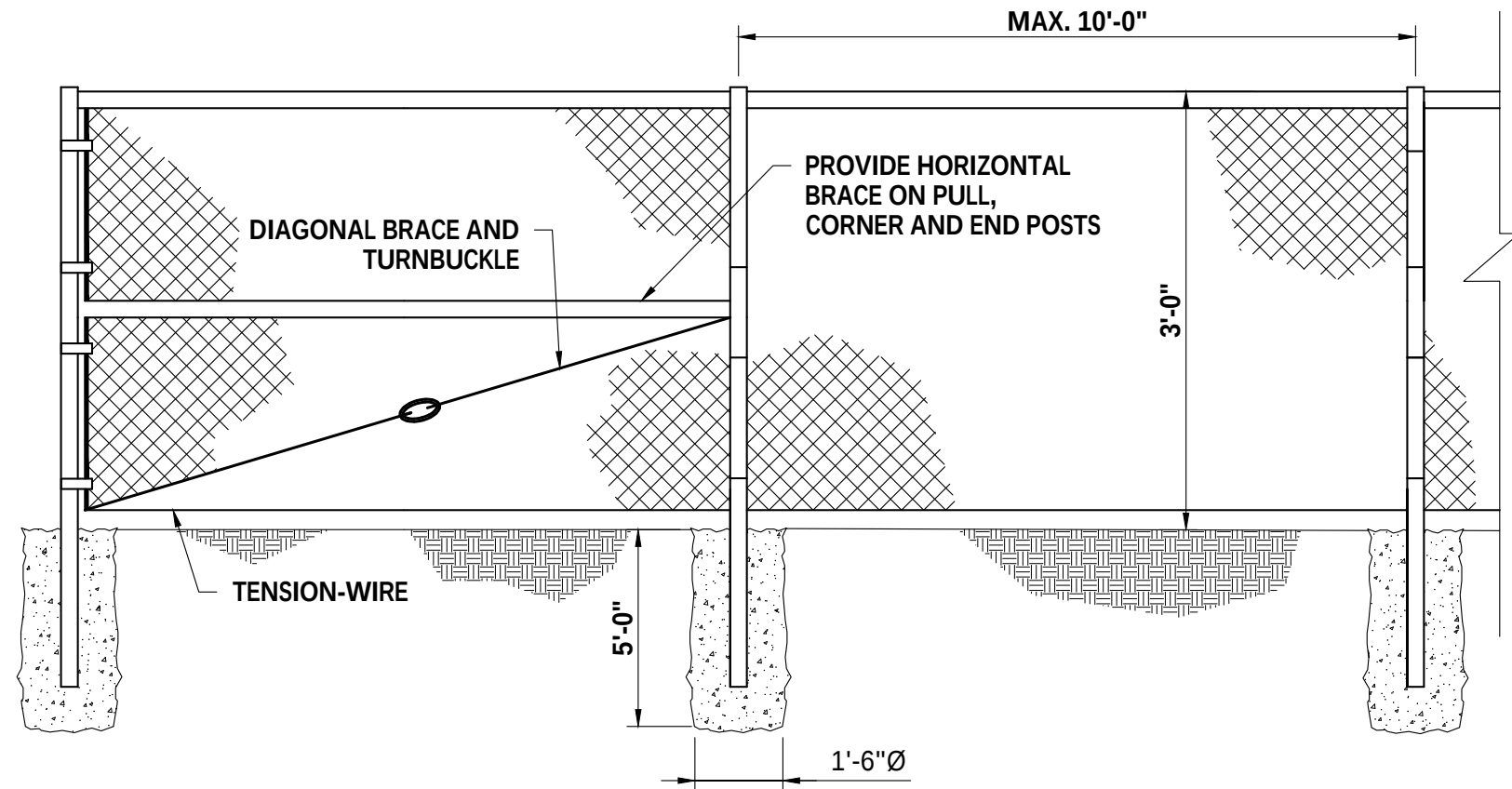


NOTES:
1. ALL SIGNS AND POSTS TO BE REPLACED UNLESS OTHERWISE DIRECTED BY ENGINEER.
2. REFER TO "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)" FOR SPECIFIC SIGN DIMENSIONS AND MATERIALS.

TYPICAL SIGN DETAIL - GALVANIZED U-SHAPED POST WITH ANCHORS
NTS



PAINTED STOP BAR
SCALE: NTS



NOTES:
1. SECURE POSTS IN CONCRETE AS SHOWN AT PULL, CORNER AND END POSTS (INCLUDING GATE POSTS).
2. IF CHAINLINK FENCE IS INSTALLED IN UNFRACTURED LEDGE, POST SHALL PENETRATE 2'-0" INTO THE LEDGE AND SHALL BE GROUTED INTO 6"Ø HOLE.

CHAINLINK FENCE
SCALE: "NTS"

CITY OF BATH, MAINE CRAWFORD DRIVE SIDEWALK AND ROAD IMPROVEMENTS		DRAWING	
DETAILS III		C-10	
WRIGHT-PIERCE 207-725-8721 www.wright-pierce.com 11 BOWDOIN MILL ISLAND, SUITE 140 TOPSHAM, ME 04076 STATE OF MAINE IAN S. WIEGMAN NO. 5582 PROFESSIONAL ENGINEER June 14, 2022		PROJECT NO. 20533 DESIGNED: L.KREMER CAD COORD: M.LAPIERRE CAD: M.LAPIERRE CHECKED: N.EDWARDS DATE: 6-14-2022 APPROVED: J.WIEGMAN DATE: 6-14-2022 SUBMISSION: CONTRACT DRAWINGS	
		REVISIONS	
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EROSION AND SEDIMENTATION CONTROL NOTES

THIS PLAN HAS BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION. THIS PLAN IS BASED ON THE STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION IN DEVELOPING AREAS IN ACCORDANCE WITH OCTOBER 2016 REVISION TO THE 2003 MAINE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs) MANUAL FOR DESIGNERS AND ENGINEERS.

THE PROPOSED LOCATIONS OF SILTATION AND EROSION CONTROL STRUCTURES ARE SHOWN ON THE SITE PLAN.

- ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE IN ACCORDANCE WITH 2014 REVISION TO THE 2003 MAINE EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONTRACTORS. ALL TEMPORARY MEASURES SHALL NOT BE REMOVED UNTIL SITE IS FULLY STABILIZED.
- IN AREAS ADJACENT TO NATURAL RESOURCES, LOCATIONS TO BE VEGETATED IN THEIR FINISH CONDITION SHALL BE STABILIZED WITH MULCH WITHIN 7 DAYS OF DISTURBANCE.
- AREAS THAT WILL NOT RECEIVE FINAL GRADING FOR UP TO ONE YEAR SHALL BE STABILIZED WITH MULCH WITHIN 7 DAYS OF DISTURBANCE
- THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE MAINTAINED IN AN UNTREATED OR UNVEGETATED CONDITION FOR THE MINIMUM TIME REQUIRED. IN GENERAL AREAS TO BE VEGETATED SHALL BE PERMANENTLY STABILIZED WITHIN 15 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF THE SOIL.
- SEDIMENT BARRIERS (SILT FENCE, STONE CHECK DAMS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF UPGRADIENT DRAINAGE AREAS.
- INSTALL SILT FENCE AT TOE OF SLOPES TO FILTER SILT FROM RUNOFF. SEE SILT FENCE DETAIL FOR PROPER INSTALLATION. SILT FENCE WILL REMAIN IN PLACE PER NOTE #5.
- ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR DECOMPOSITION. IF REPAIRS ARE IDENTIFIED, THEY SHALL BEGIN NO LATER THAN THE END OF THE FOLLOWING WORK DAY AND BE COMPLETE WITHIN 7 DAYS FROM INSPECTION. SEDIMENT DEPOSITS MUST BE REMOVED WHEN THEY REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE PERMANENTLY STABILIZED.
- NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2 TO 1) UNLESS STABILIZED WITH RIPRAP OR OTHER STRUCTURAL MEANS. NO SLOPES IN EXCESS OF 1.5H:1V SHALL BE ALLOWED.
- IF FINAL SEEDING AND SODDING IS NOT EXPECTED PRIOR TO THE ANTICIPATED DATE OF THE FIRST KILLING FROST, USE TEMPORARY ANNUAL RYEGRASS SEEDING AND MULCHING ON ROUGH GRADED SUBSOIL TO PROTECT THE SITE AND DELAY PERMANENT LOAMING, FINE GRADING, AND SEEDING OR SODDING UNTIL SPRING.
- WHEN FEASIBLE, TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINISH GRADED SHALL BE COMPLETED 30 DAYS PRIOR TO THE FIRST KILLING FROST.
- DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND REGRADED ONTO OPEN AREAS. POST SEEDING SEDIMENT, IF ANY, WILL BE DISPOSED OF IN AN ACCEPTABLE MANNER.
- REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND REVEGETATED.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE IS STABILIZED.
- EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
- EXPOSED AREA SHOULD BE LIMITED SUCH THAT THE AREA CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT.
- STABILIZATION SCHEDULE BEFORE WINTER:

- | | |
|--------------|---|
| SEPTEMBER 15 | ALL DISTURBED AREAS MUST BE SEEDED AND MULCHED. ALL SLOPES MUST BE STABILIZED, SEEDED AND MULCHED. SLOPES 3:1 OR GREATER TO BE STABILIZED WITH EROSION CONTROL MATTING AND SEEDED. ALL DISTURBED AREAS TO BE PROTECTED WITH AN ANNUAL GRASS MUST BE SEEDED AT A SEEDING RATE OF 3 POUNDS PER 1,000 SQUARE FEET AND MULCHED. |
| OCTOBER 1 | ALL GRASS-LINED DITCHES AND CHANNELS MUST BE STABILIZED WITH MULCH OR EROSION CONTROL BLANKET. |
| NOVEMBER 15 | ALL STONE-LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED. SLOPES THAT ARE COVERED WITH RIPRAP MUST BE CONSTRUCTED BY THAT DATE. |
| DECEMBER 1 | ALL DISTURBED AREAS WHERE THE GROWTH OF VEGETATION FAILS TO BE AT LEAST THREE INCHES TALL OR AT LEAST 75% OF THE DISTURBED SOIL IS COVERED BY VEGETATION, MUST BE PROTECTED FOR OVER-WINTER. |
- SEDIMENT BARRIERS SHALL BE INSTALLED DOWNGRADIENT OF STOCKPILES, AND STORMWATER SHALL BE PREVENTED FROM RUNNING ONTO THE STOCKPILES.
 - CONTRACTOR SHALL MAINTAIN ALL STABILIZED CONSTRUCTION ENTRANCES UNTIL ALL DISTURBED AREAS ARE STABILIZED.
 - MULCH MAY REQUIRE ANCHORING TO ENSURE THAT MULCH REMAINS IN-PLACE. MULCH NETTING, CRIMPING, OR PUNCHING ARE ACCEPTABLE METHODS. MULCH NETTING SHALL BE TENAX RADIX EROSION CONTROL NETS OR APPROVED EQUAL, AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
 - SPILL PREVENTION: CONTROLS MUST BE USED TO PREVENT POLLUTANTS FROM BEING DISCHARGED FROM MATERIALS AND EQUIPMENT ON-SITE, INCLUDING STORAGE PRACTICES TO MINIMIZE EXPOSURE OF THE MATERIALS TO STORMWATER, AND APPROPRIATE SPILL PREVENTION, CONTAINMENT, AND RESPONSE PLANNING AND IMPLEMENTATION.
 - GROUNDWATER PROTECTION: DURING CONSTRUCTION, LIQUID PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUNDWATER MAY NOT BE STORED OR HANDLED IN AREAS OF THE SITE DRAINING TO AN INFILTRATION AREA. AN "INFILTRATION AREA" IS ANY AREA OF THE SITE THAT BY DESIGN OR AS A RESULT OF SOILS, TOPOGRAPHY AND OTHER RELEVANT FACTORS, ACCUMULATES RUNOFF THAT INFILTRATES INTO THE SOIL. DUKES, BERMS, SLUMPS, AND OTHER FORMS OF SECONDARY CONTAMINANT THAT PREVENT DISCHARGE TO GROUNDWATER MAY BE USED TO ISOLATE PORTIONS OF THE SITE FOR THE PURPOSES OF STORAGE AND HANDLING OF THESE MATERIALS.
 - MINIMIZE THE EXPOSURE OF CONSTRUCTION DEBRIS, BUILDING AND LANDSCAPING MATERIALS, TRASH, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS TO PRECIPITATION AND STORMWATER RUNOFF. THESE MATERIALS MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE.
 - EXCAVATION DE-WATERING IS THE REMOVAL OF WATER FROM TRENCHES, FOUNDATIONS, COFFER DAMS, PONDS, AND OTHER AREAS WITHIN THE CONSTRUCTION AREA THAT RETAIN WATER AFTER EXCAVATION. IN MOST CASES THE COLLECTED WATER IS HEAVILY SILTED AND HINDERS CORRECT AND SAFE CONSTRUCTION PRACTICES. THE COLLECTED WATER REMOVED FROM THE PONDED AREA, EITHER THROUGH GRAVITY OR PUMPING, MUST BE SPREAD THROUGH NATURAL WOODED BUFFERS OR REMOVED TO AREAS THAT ARE SPECIFICALLY DESIGNED TO COLLECT THE MAXIMUM AMOUNT OF SEDIMENT POSSIBLE, LIKE A COFFERDAM SEDIMENTATION BASIN. AVOID ALLOWING THE WATER TO FLOW OVER DISTURBED AREAS OF THE SITE. EQUIVALENT MEASURES MAY BE TAKEN IF APPROVED BY THE DEPARTMENT.
 - AUTHORIZED NON-STORMWATER DISCHARGES: IDENTIFY AND PREVENT CONTAMINATION BY NON-STORMWATER DISCHARGES. WHERE ALLOWED NON-STORMWATER DISCHARGES EXIST, THEY MUST BE IDENTIFIED AND STEPS SHOULD BE TAKEN TO ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORMWATER COMPONENT(S) OF THE DISCHARGE. AUTHORIZED NON-STORMWATER DISCHARGES ARE:
 - DISCHARGES FROM FIREFIGHTING ACTIVITY;
 - FIRE HYDRANT FLUSHINGS;
 - VEHICLE WASHWATER IF DETERGENTS ARE NOT USED AND WASHING IS LIMITED TO THE EXTERIOR OF VEHICLES (ENGINE, UNDERCARRIAGE AND TRANSMISSION WASHING IS PROHIBITED);
 - DUST CONTROL RUNOFF IN ACCORDANCE WITH PERMIT CONDITIONS;
 - ROUTINE EXTERNAL BUILDING WASHDOWN, NOT INCLUDING SURFACE PAINT REMOVAL, THAT DOES NOT INVOLVE DETERGENTS;
 - PAVEMENT WASHWATER (WHERE SPILLS/LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED, UNLESS ALL SPILLED MATERIAL HAD BEEN REMOVED) IF DETERGENTS ARE NOT USED;
 - UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE;
 - UNCONTAMINATED GROUNDWATER OR SPRING WATER;
 - FOUNDATION OR FOOTER DRAIN-WATER WHERE FLOWS ARE NOT CONTAMINATED;
 - UNCONTAMINATED EXCAVATION DEWATERING;
 - POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHINGS; AND
 - LANDSCAPE IRRIGATION.
 - UNAUTHORIZED NON-STORMWATER DISCHARGES: THE MAINEDEP'S APPROVAL UNDER THIS CHAPTER DOES NOT AUTHORIZE A DISCHARGE THAT IS MIXED WITH A SOURCE OF NON-STORMWATER, OTHER THAN THOSE DISCHARGES IN COMPLIANCE WITH APPENDIX C (6). SPECIFICALLY, THE DEPARTMENT'S APPROVAL DOES NOT AUTHORIZE DISCHARGES OF THE FOLLOWING:
 - WASTEWATER FROM THE WASHOUT OR CLEANOUT OF CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS OR OTHER CONSTRUCTION MATERIALS;
 - FUELS, OILS OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE;
 - SOAPS, SOLVENTS, OR DETERGENTS USED IN VEHICLE AND EQUIPMENT WASHING; AND
 - TOXIC OR HAZARDOUS SUBSTANCES FROM A SPILL OR OTHER RELEASE.

EROSION CONTROL - WINTER CONSTRUCTION

- WINTER CONSTRUCTION PERIOD DEFINED: NOVEMBER 1 THROUGH APRIL 15.
- CONTINUATION OF EARTHWORK OPERATIONS ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO LARGER AREA OF THE SITE IS WITHOUT EROSION CONTROL PROTECTION AS LISTED IN ITEM 2 ABOVE.
- AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW AT A RATE OF 100 LB. PER 1,000 SQUARE FEET (WITH OR WITHOUT SEEDING) OR DORMANT SEEDED, MULCHED AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE. IN ALL CASES, MULCH SHALL BE APPLIED SUCH THAT SOIL SURFACE IS NOT VISIBLE THROUGH THE MULCH.
- BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1ST, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE-FREEZING TEMPERATURES, THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1ST AND IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED AND IS SMOOTH, THEN THE AREA MUST BE STABILIZED WITH MULCH. IF CONSTRUCTION CONTINUES DURING FREEZING WEATHER, ALL EXPOSED AREAS SHALL BE GRADED BEFORE FREEZING AND THE SURFACE TEMPORARILY PROTECTED FROM EROSION BY THE APPLICATION OF MULCH. SLOPES SHALL NOT BE LEFT EXPOSED OVER THE WINTER OR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS TREATED IN THE ABOVE MANNER. UNTIL SUCH TIME AS WEATHER CONDITIONS ALLOW DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF BALES OF HAY OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS.
- THE APPLICATION OF MULCH TO FINE GRADED AREAS WILL BE STABILIZED AS FOLLOWS:
 - BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING, ASPHALT EMULSION, CHEMICAL TACK OR WOOD CELLULOSE FIBER.
 - MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPES EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GRATER THAN 8%. THIS SHALL BE IN ADDITION TO EROSION CONTROL MATTING-DITCHES DETAIL.
 - MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15%. AFTER OCTOBER 1ST, THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.
- AFTER NOVEMBER 1ST THE CONTRACTOR SHALL APPLY MULCH AND ANCHORING ON ALL BARE EARTH AT THE END OF EACH WORKING DAY.
- DURING WINTER CONSTRUCTION PERIODS ALL SNOW SHALL BE REMOVED FROM AREAS OF MULCHING PRIOR TO PLACEMENT.
- THE INSPECTION FREQUENCY FOR WINTER CONSTRUCTION SHALL BE AFTER EACH RAINFALL, SNOWSTORM, OR THAWING, AND AT LEAST ONCE A WEEK.

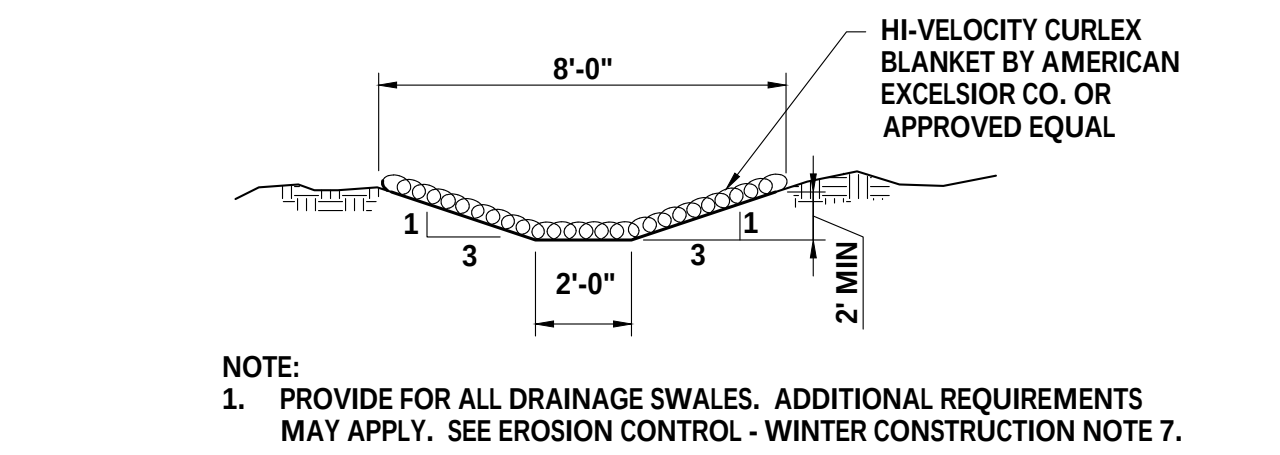
EROSION CONTROL - WETLAND NOTES

- WETLANDS AND SURFACE WATERS (EXCEPTING THOSE WHICH ARE TO BE FILLED IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS) WILL BE PROTECTED WITH SILT FENCE INSTALLED AT THE EDGE OF THE WETLAND OR THE BOUNDARY OF WETLAND DISTURBANCE.
- IF THE WORK INCLUDES CROSSING OF WETLANDS AND/OR STREAMS, THE CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS WORKING IN THESE AREAS.
- ANY WETLAND CROSSING WORK SHALL BE COMPLETED BETWEEN THE PERIOD OF MAY 1 AND SEPTEMBER 30.
- ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION WITHIN OR ADJACENT TO WETLAND AREAS. ALL TEMPORARY MEASURES SHALL NOT BE REMOVED UNTIL SITE IS FULLY STABILIZED.
- WETLAND VEGETATIVE LAYERS SHALL BE REMOVED AND SALVAGED FOR RESTORATION OF THE DISTURBED AREAS.
- STORAGE AREAS FOR WETLAND MATERIALS SHALL BE PROPERLY PROTECTED AGAINST EROSION.
- SEEDING OF THE DISTURBED AREAS WITHIN WETLAND AREAS SHALL UTILIZE MIXTURES APPROPRIATE FOR WETLAND AREAS AS OUTLINED IN THE SPECIFICATIONS.

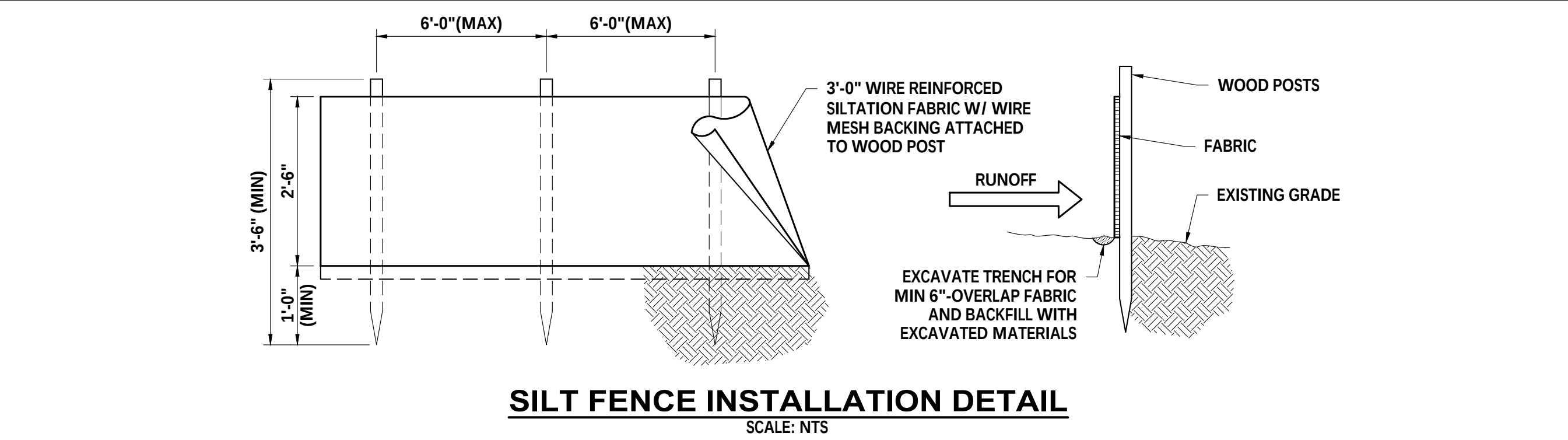
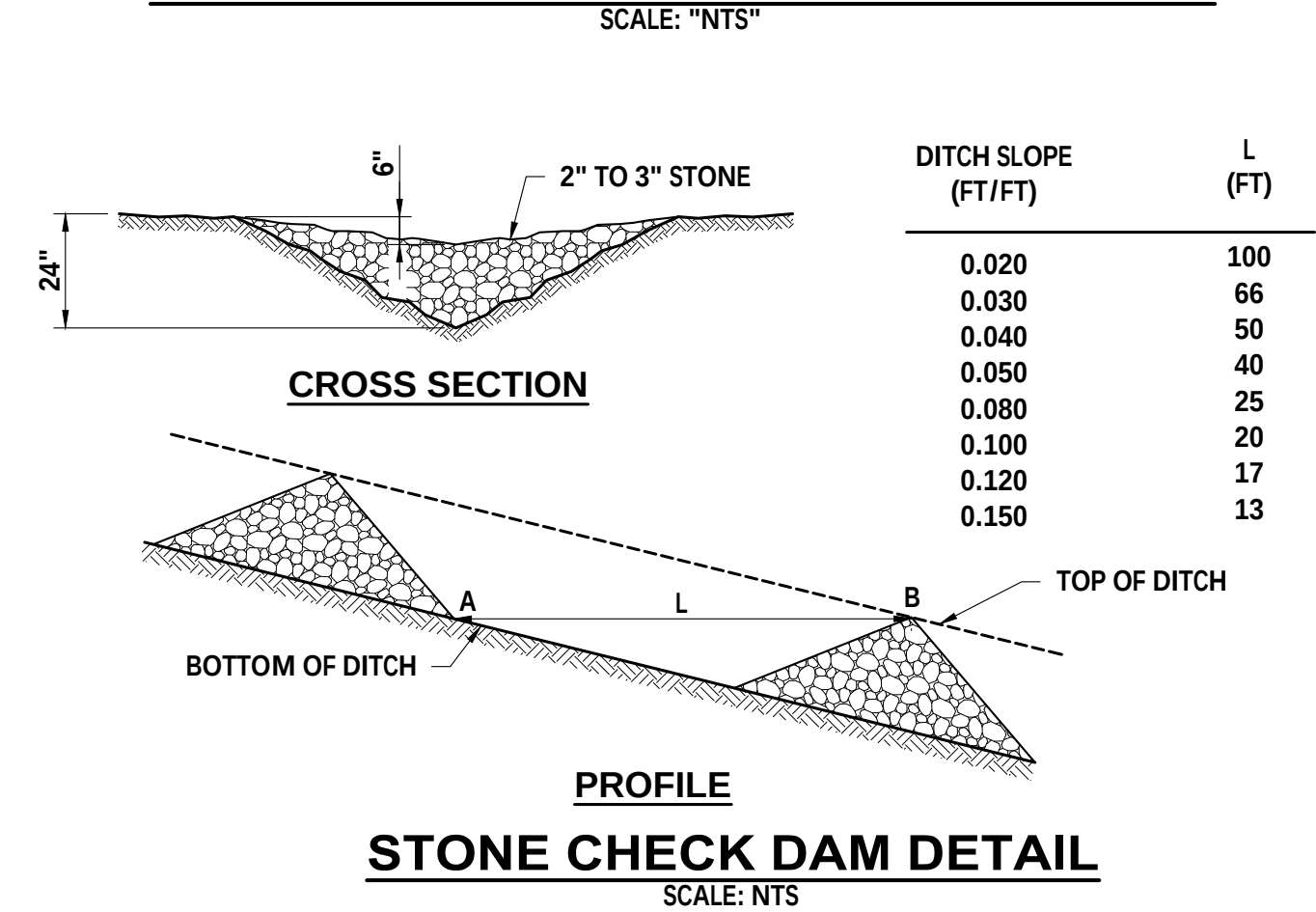
INSPECTIONS

REGULAR INSPECTIONS OF ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE MADE AT LEAST WEEKLY AND PRIOR TO AND FOLLOWING STORM EVENTS. MINIMUM INSPECTIONS SHALL BE MADE AS LISTED IN THE TABLE BELOW. SEE INSPECTIONS, MAINTENANCE AND HOUSEKEEPING PLAN FOR ADDITIONAL INFORMATION.

INSPECTED ITEM	EXAMPLE REPAIR INDICATORS
MULCHED SURFACES	THIN MULCH OR INADEQUATE APPLICATION. WIND MOVEMENT
SEEDED SURFACES	POOR SEED GERMINATION. LOSS OF MULCH. DEVELOPMENT OF RIVULETS.
SEDIMENT BARRIER	SEDIMENT BUILD-UP TO ONE HALF THE HEIGHT OF THE BARRIER. UNDERMINING OF THE BARRIER. SUPPORTING STAKES LOOSE, TOPPLED OR UNMARKED. BREAKS IN BARRIER.
PERIMETER DIVERSION	DISCHARGE IS TO STABILIZED AREA. EROSION OR BREAKS IN BARRIER. SUPPORTING STAKES LOOSE, TOPPLED OR UNMARKED.
CATCH BASIN PROTECTION	SEDIMENT BUILD-UP AND STRUCTURE BLOCKAGES. SLOW FLOW/PONDING WATER. BREAKS IN FABRIC OR VOIDS IN BARRIER.
DEWATERING FILTER	BREAKS IN FABRIC OR SUPPORTING STRUCTURE. SLOW FLOW, INDICATING HIGH SEDIMENT BUILD-UP.
CONSTRUCTION ENTRANCE	SEDIMENTATION OF ROADWAYS. OFF-SITE DUST COMPLAINTS.

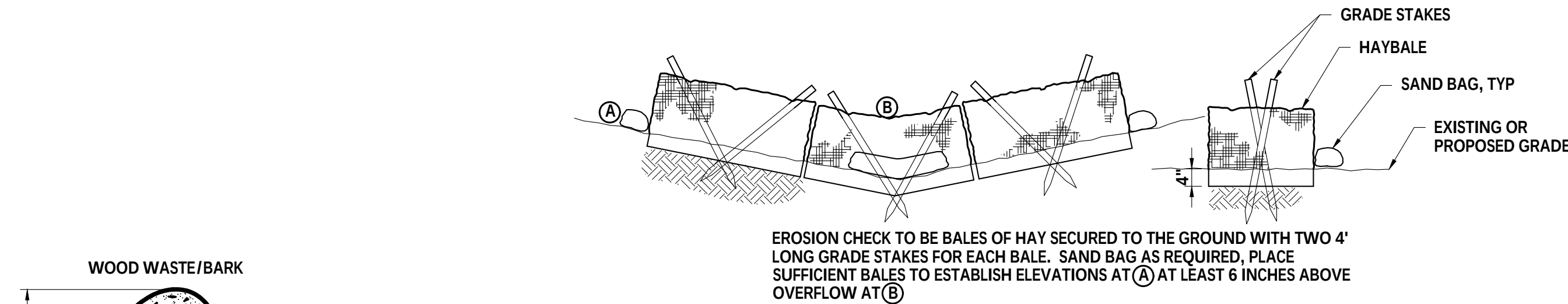


EROSION CONTROL MATTING - DITCHES



SILT FENCE INSTALLATION DETAIL

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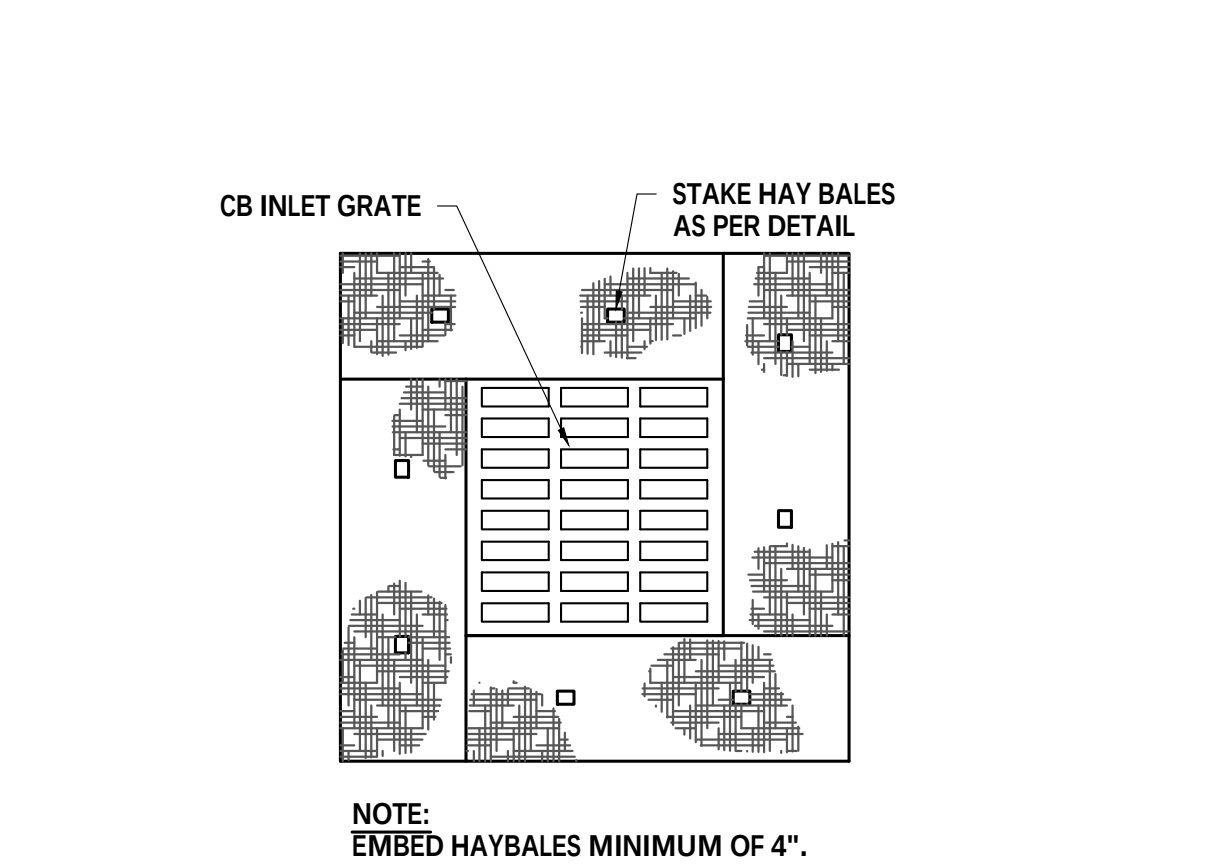
HAY BALE CHECK DAM

SCALE: "NTS"

- NOTES:
- EROSION CONTROL MIX SHOULD CONTAIN A WELL-GRADED MIXTURE OF PARTICLE SIZES AND MAY CONTAIN ROCKS LESS THAN 4" IN DIAMETER. EROSION CONTROL MIX SHOULD BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH SUCH AS FLY ASH OR YARD SCRAPING. LARGE PORTIONS OF SILTS, CLAYS OR FINE SANDS ARE NOT ACCEPTABLE IN THE MIX. THE MIX COMPOSITION SHOULD MEET THE FOLLOWING STANDARDS:
 - THE ORGANIC MATTER CONTENT SHOULD BE BETWEEN 80% AND 100%, DRY WEIGHT BASIS.
 - PARTICLE SIZE BY WEIGHT SHOULD BE 100% PASSING A 6" SCREEN AND 70% TO 85% PASSING A 0.75" SCREEN.
 - THE ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED.
 - SOLUBLE SALTS CONTENT SHALL BE < 4.0 MMHOS/CM.
 - THE PH SHOULD BE BETWEEN 5.0 AND 8.0.
 - DO NOT USE ECM BERM AT BASE OF SLOPES 8% OR GREATER.

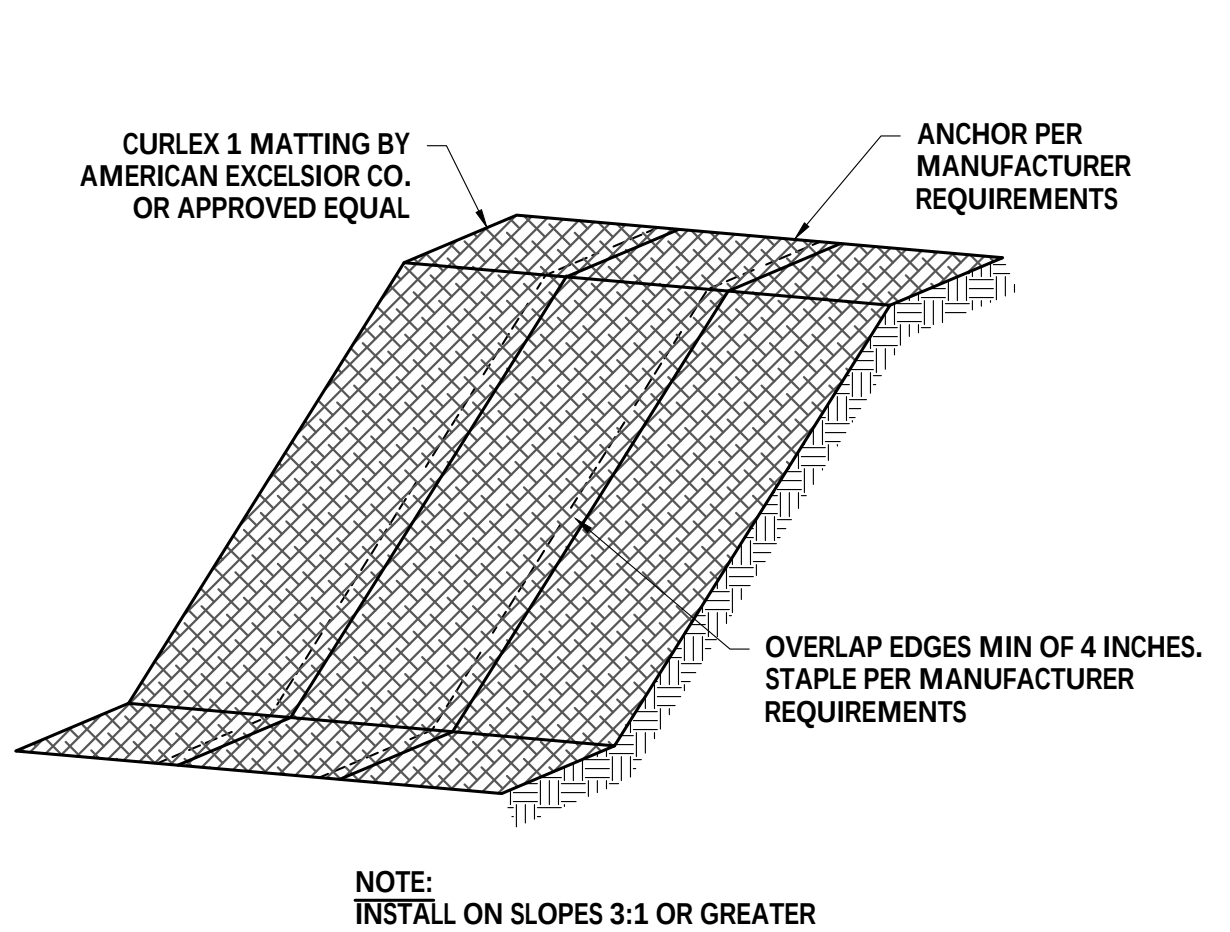
EROSION CONTROL MULCH BERM

SCALE: "NTS"



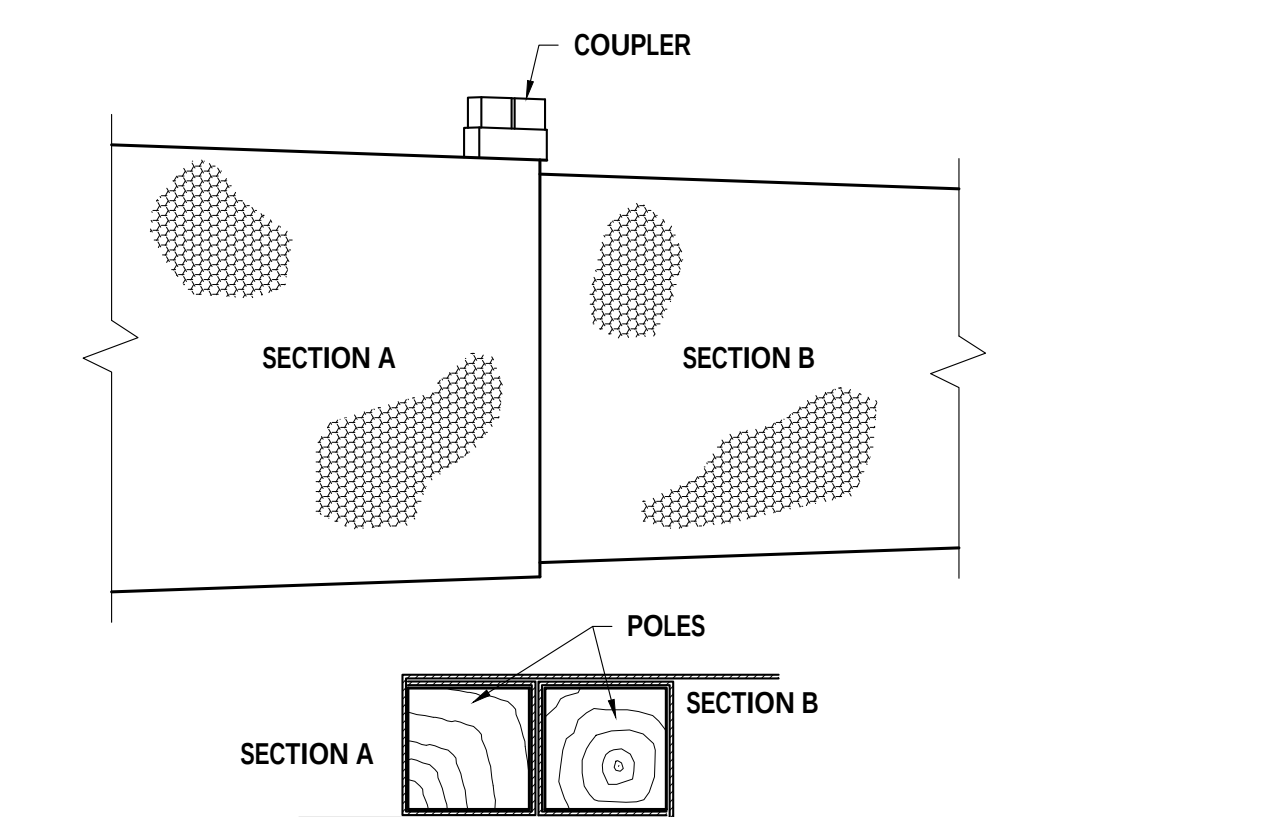
HAY BALE CB INLET PROTECTION

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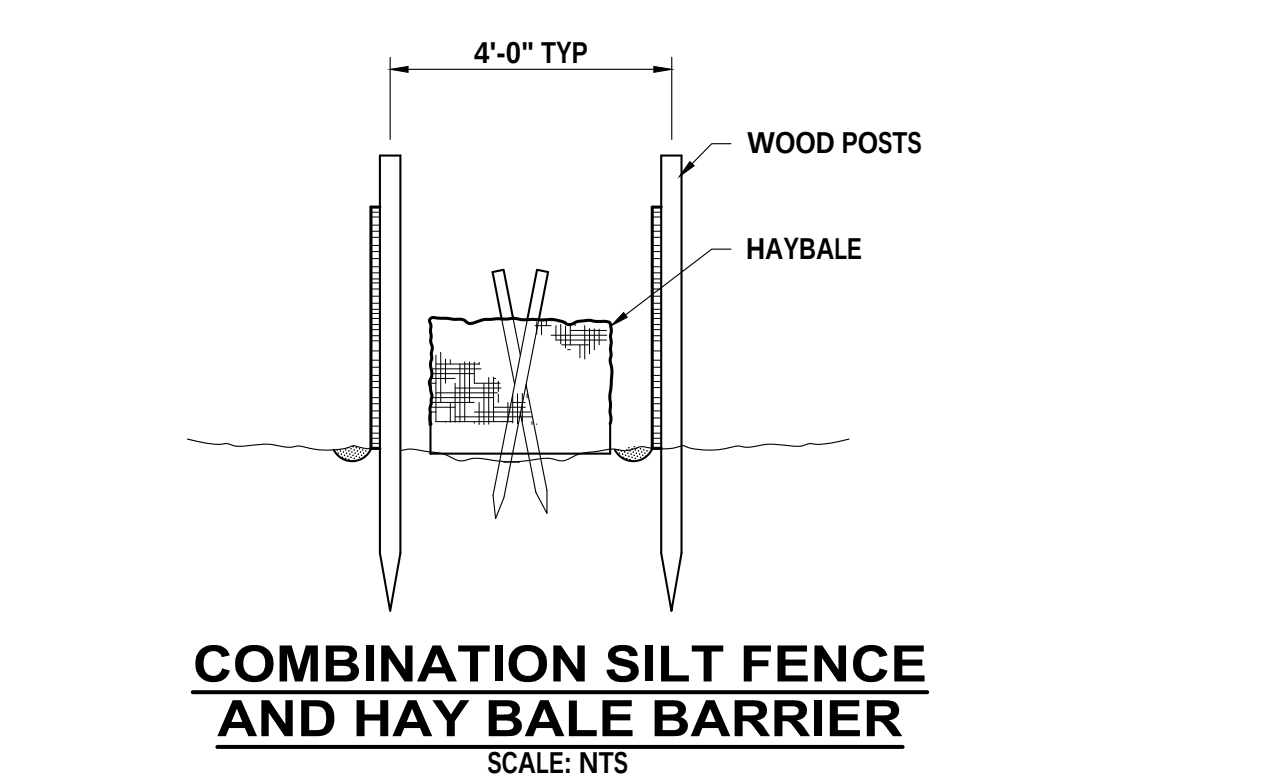
EROSION CONTROL MATTING - SLOPES

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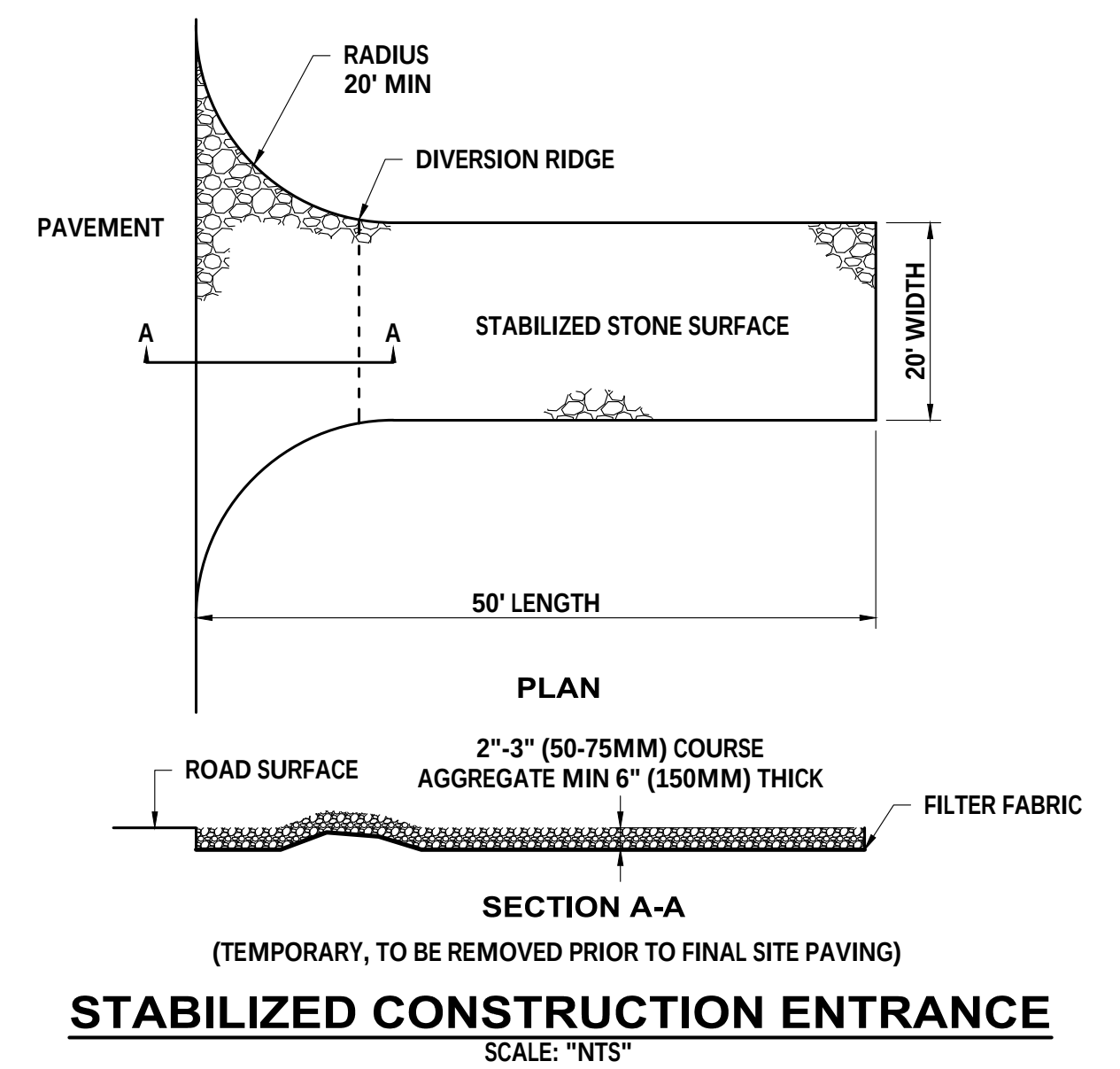
JOINING SILT FENCE SECTIONS

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COMBINATION SILT FENCE AND HAY BALE BARRIER

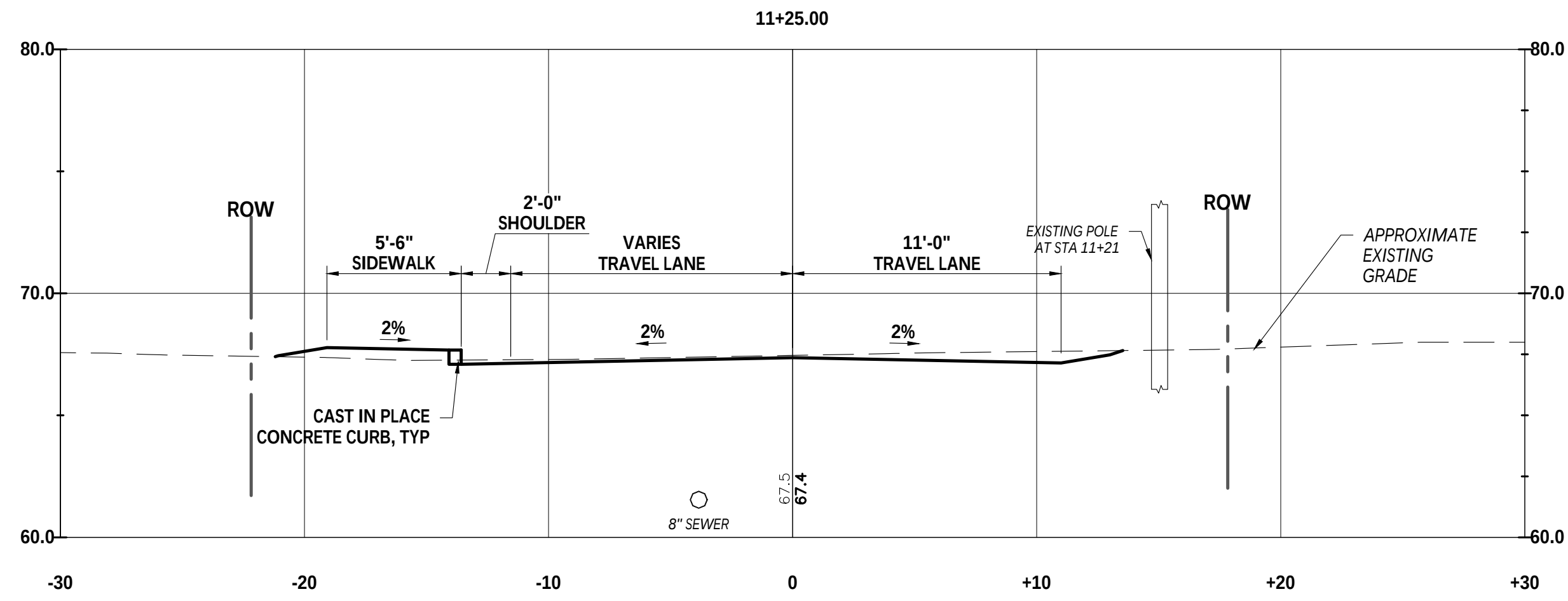
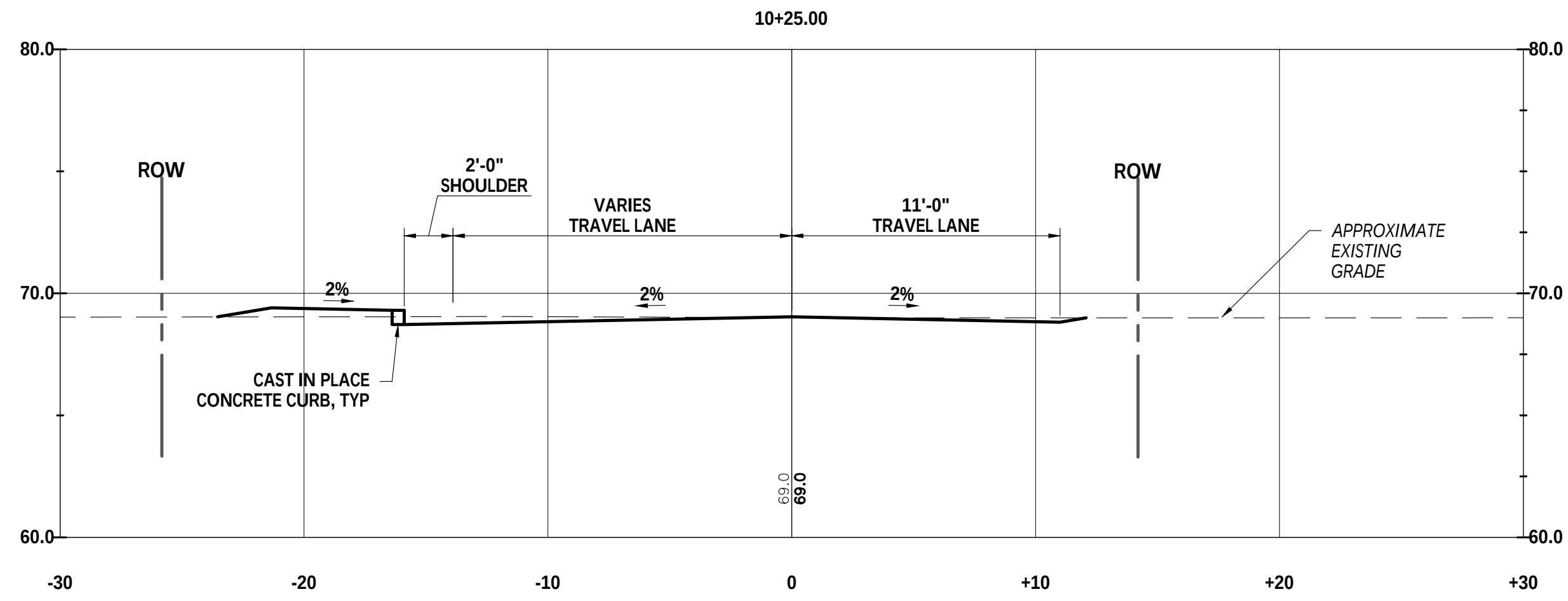
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STABILIZED CONSTRUCTION ENTRANCE

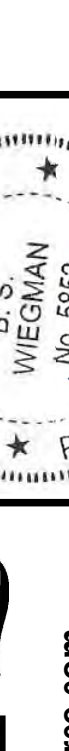
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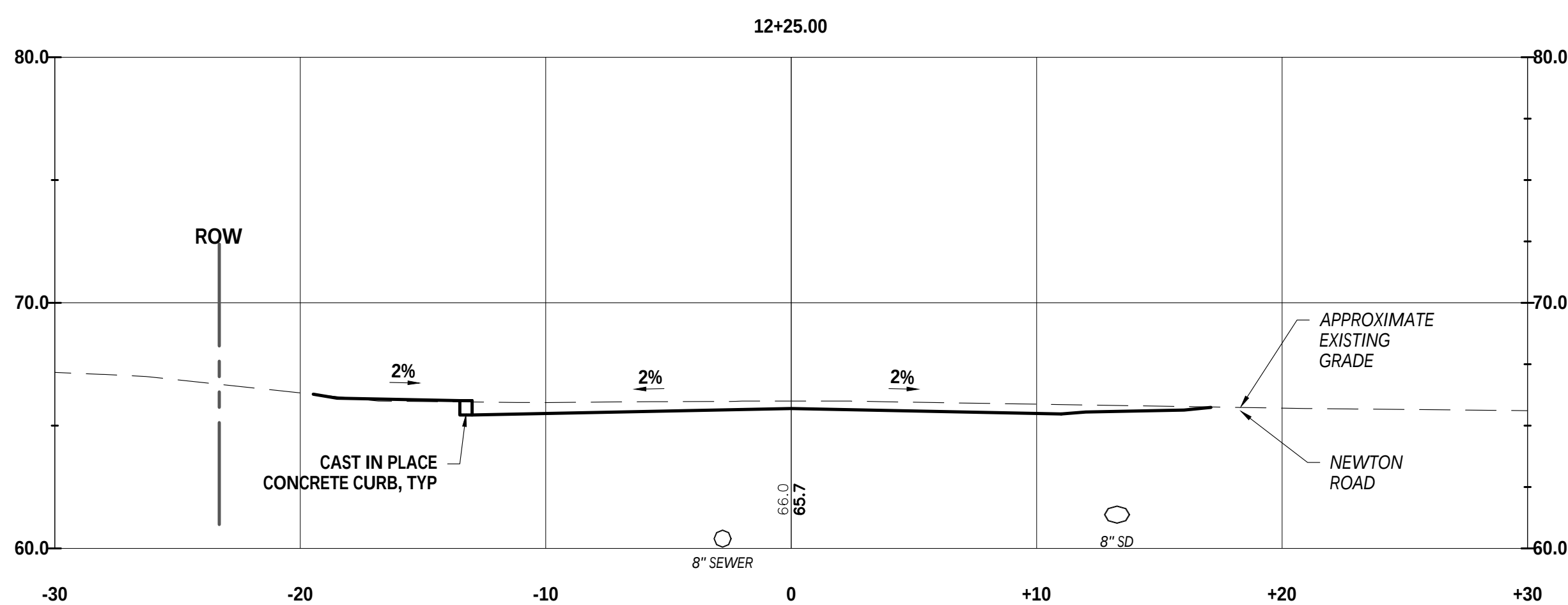
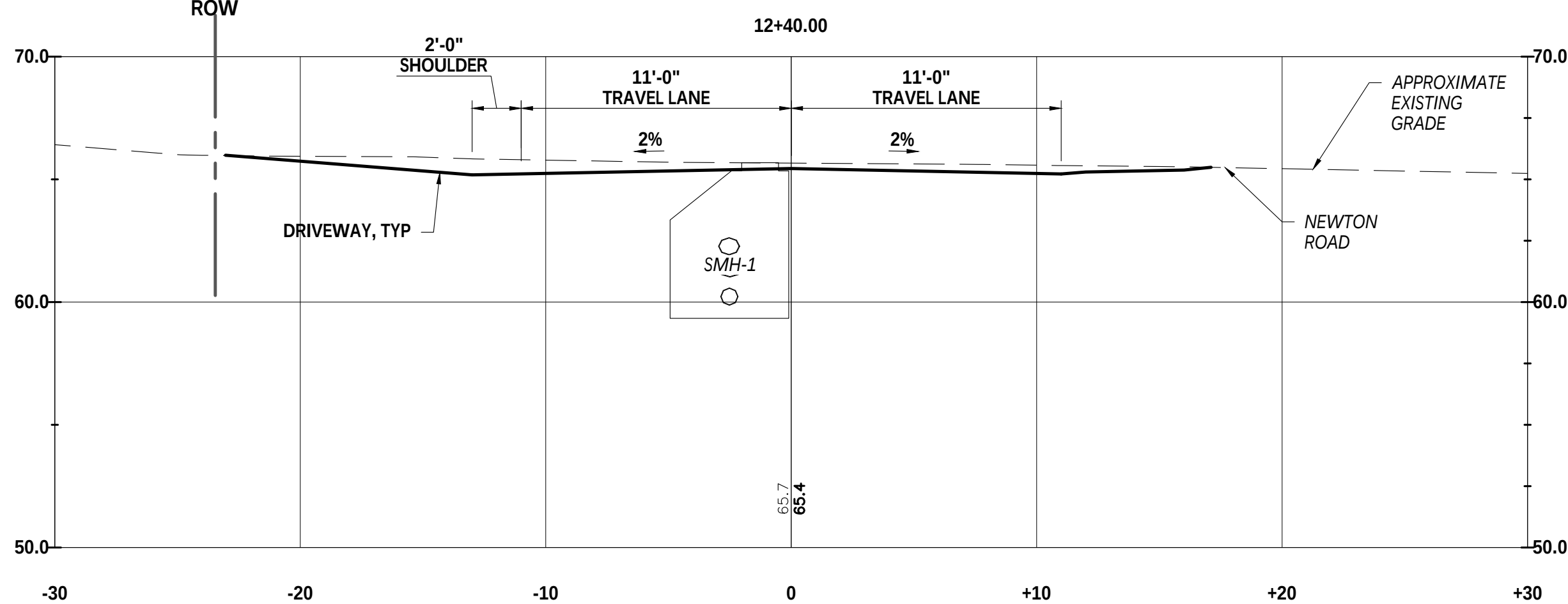
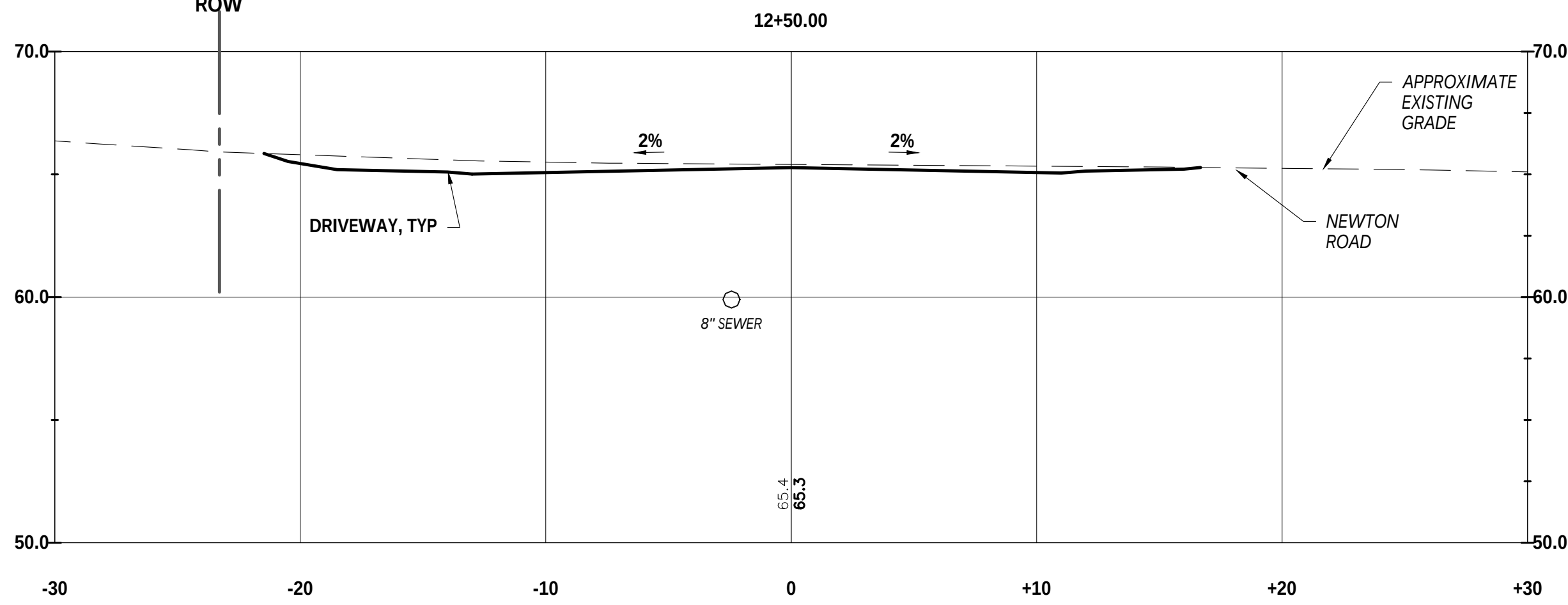
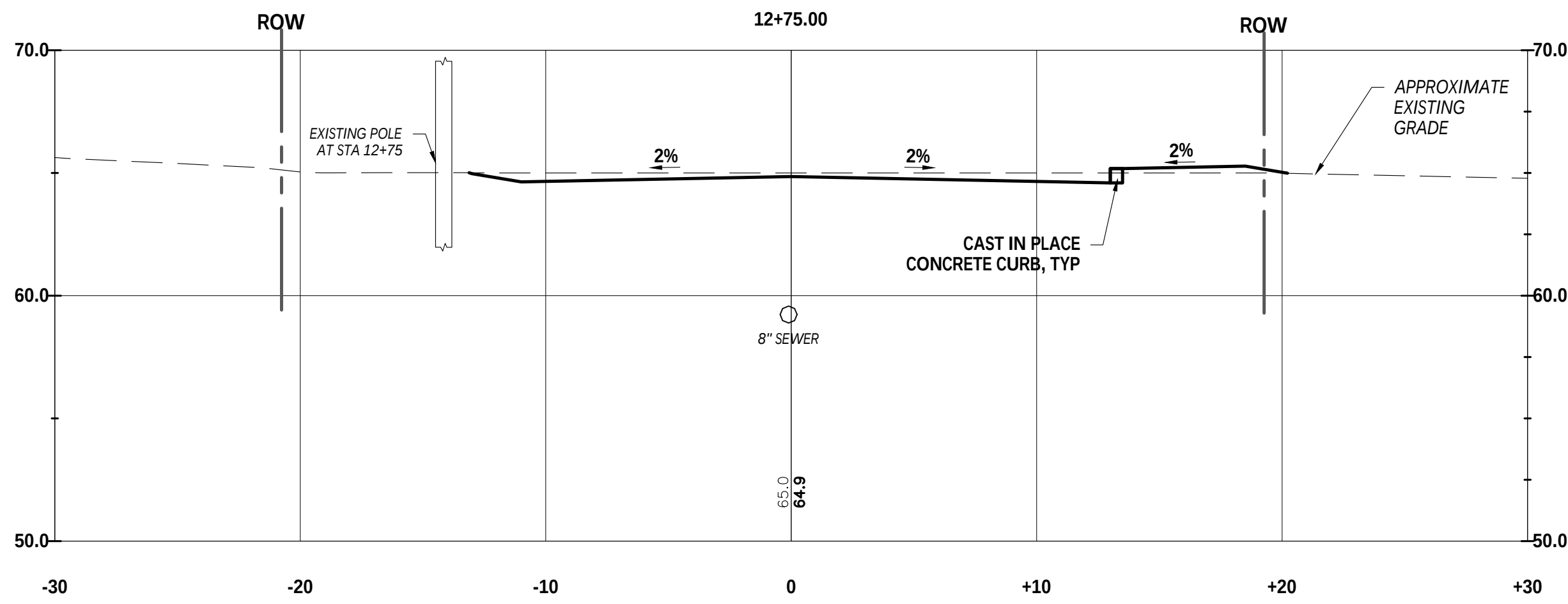
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CITY OF BATH, MAINE CRAWFORD DRIVE SIDEWALK AND ROAD IMPROVEMENTS								
EROSION CONTROL NOTES AND DETAILS								
DRAWING C-11								



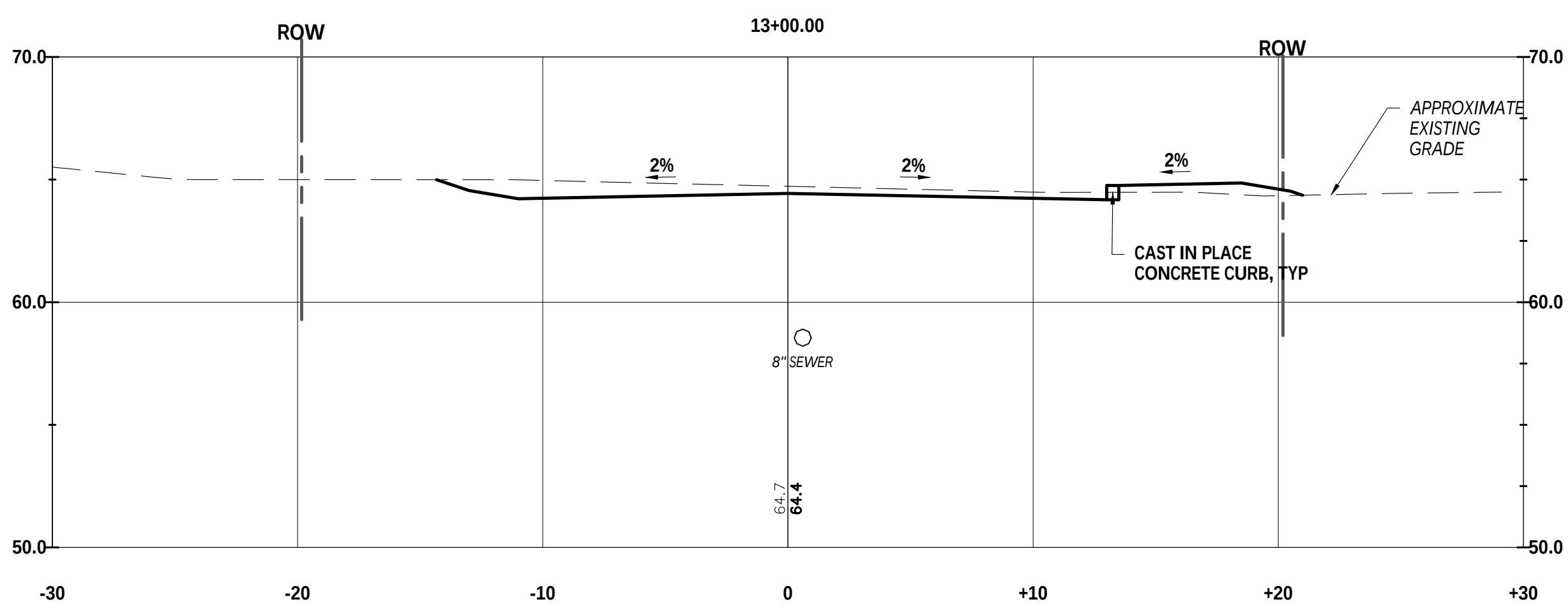
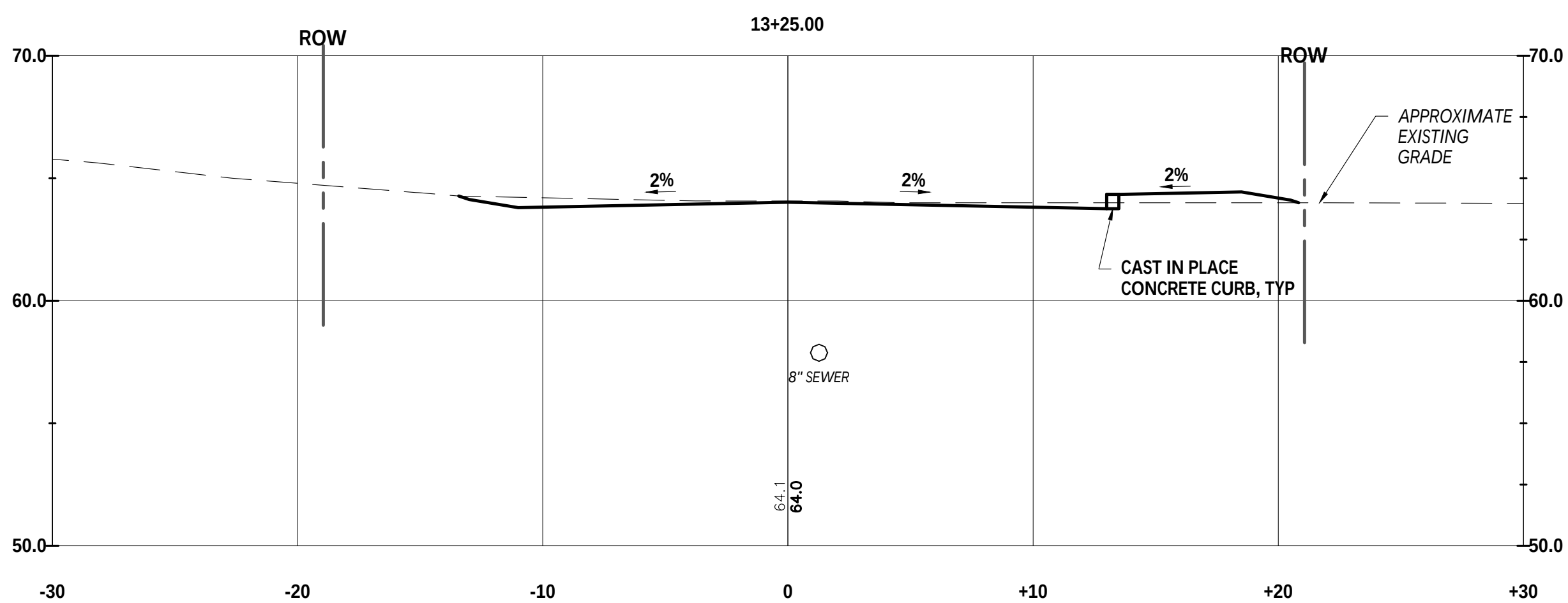
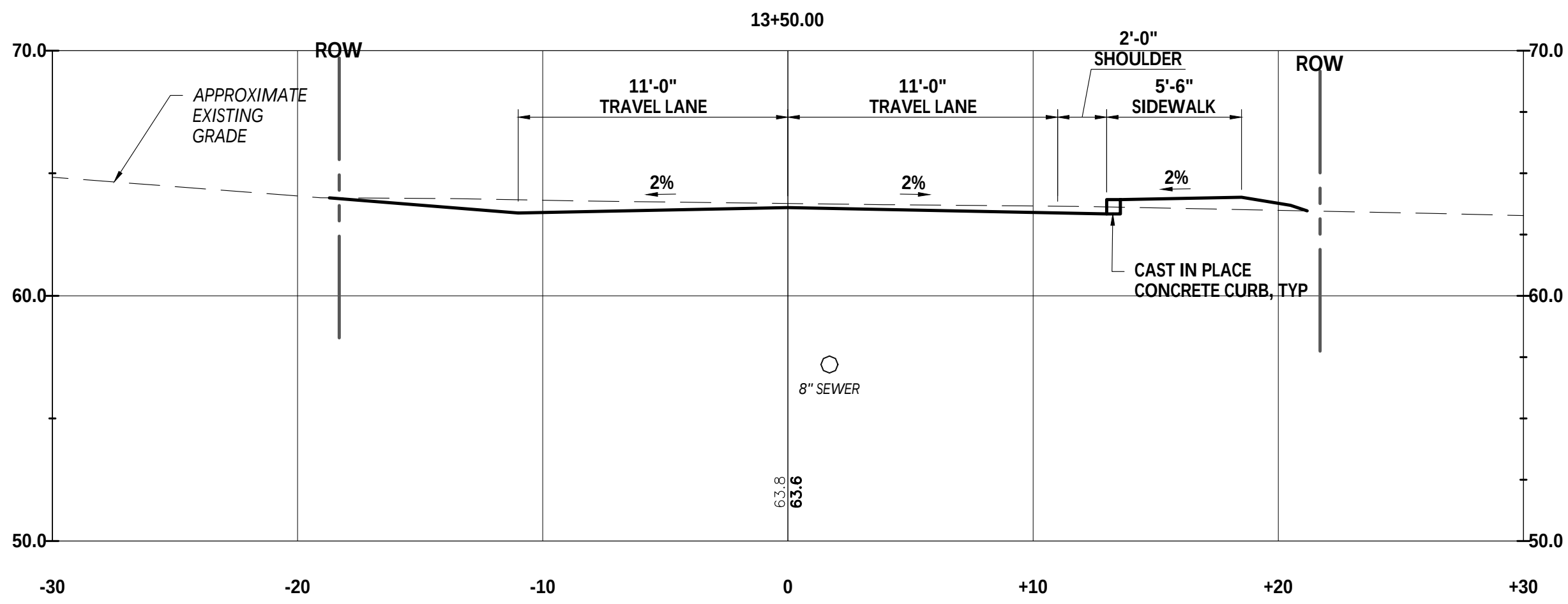
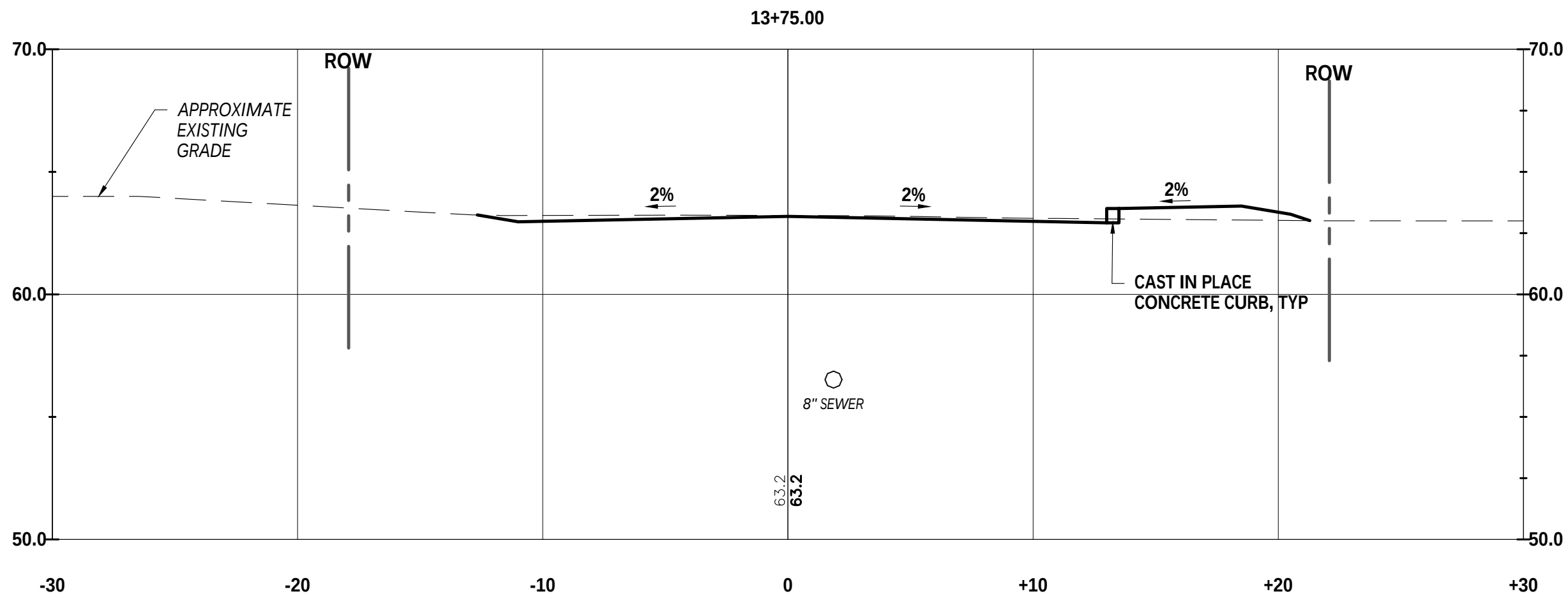
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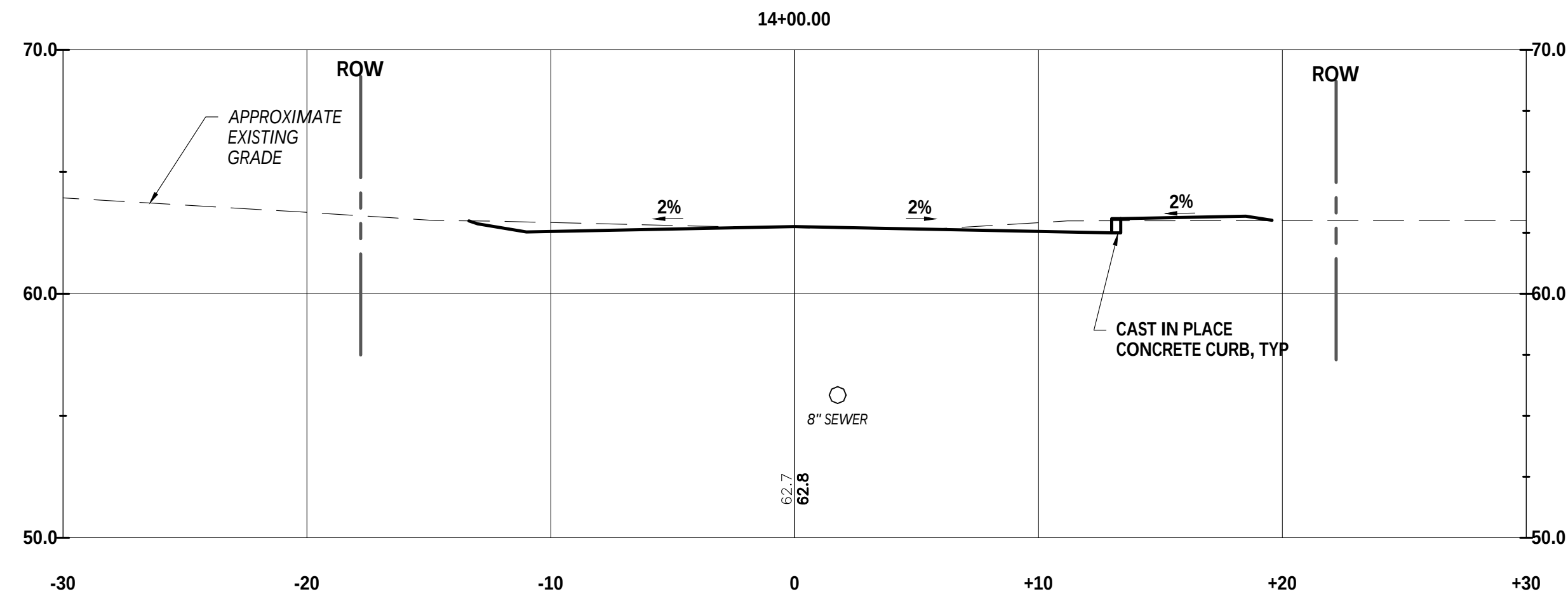
DRAWING	C-12	CITY OF BATH, MAINE CRAWFORD DRIVE SIDEWALK AND ROAD IMPROVEMENTS	 207-725-8721 www.wright-pierce.com 11 BOWDOIN MILL ISLAND, SUITE 440 TOPSHAM, ME 04876		PROJECT NO: 20533 DESIGNED: LKREMER CAD COORD: M.LAPIERRE CAD: M.LAPIERRE CHECKED: NEDWARDS DATE: 6-14-2022 APPROVED: J.WIEGMAN DATE: 6-14-2022 SUBMISSION: CONTRACT DRAWINGS	NO	REVISIONS	APP'D. DATE
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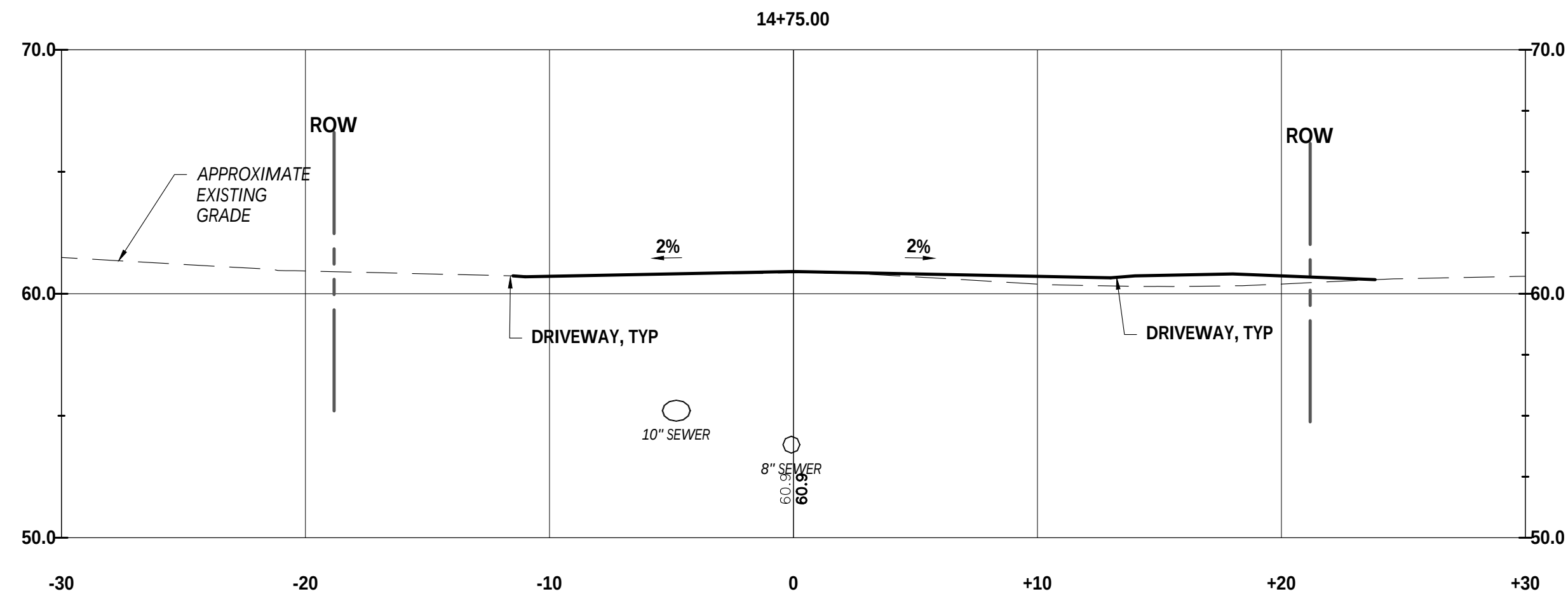
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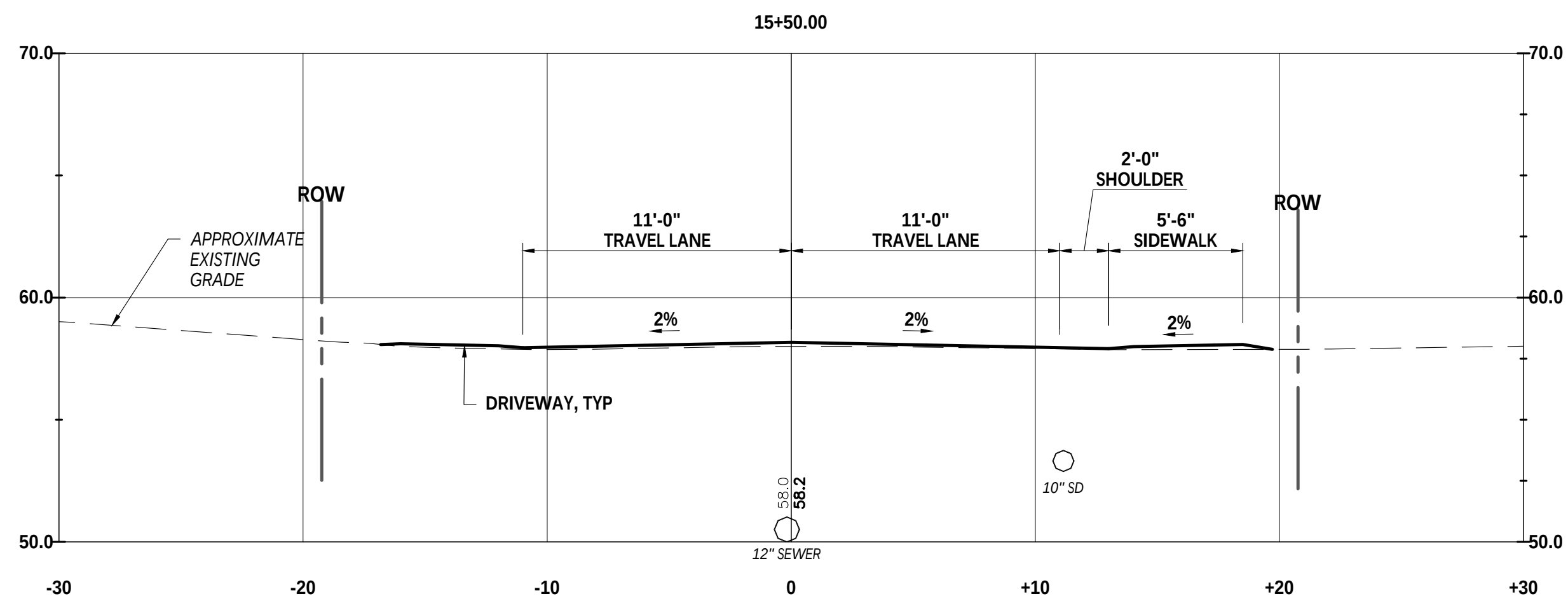
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CITY OF BATH, MAINE CRAWFORD DRIVE SIDEWALK AND ROAD IMPROVEMENTS		CROSS SECTIONS STA: 12+25 TO STA: 13+75		DRAWING C-13			
 207-725-8721 www.wright-pierce.com 11 BOWDOIN MILL ISLAND, SUITE 140 TOPSHAM, ME 04076							



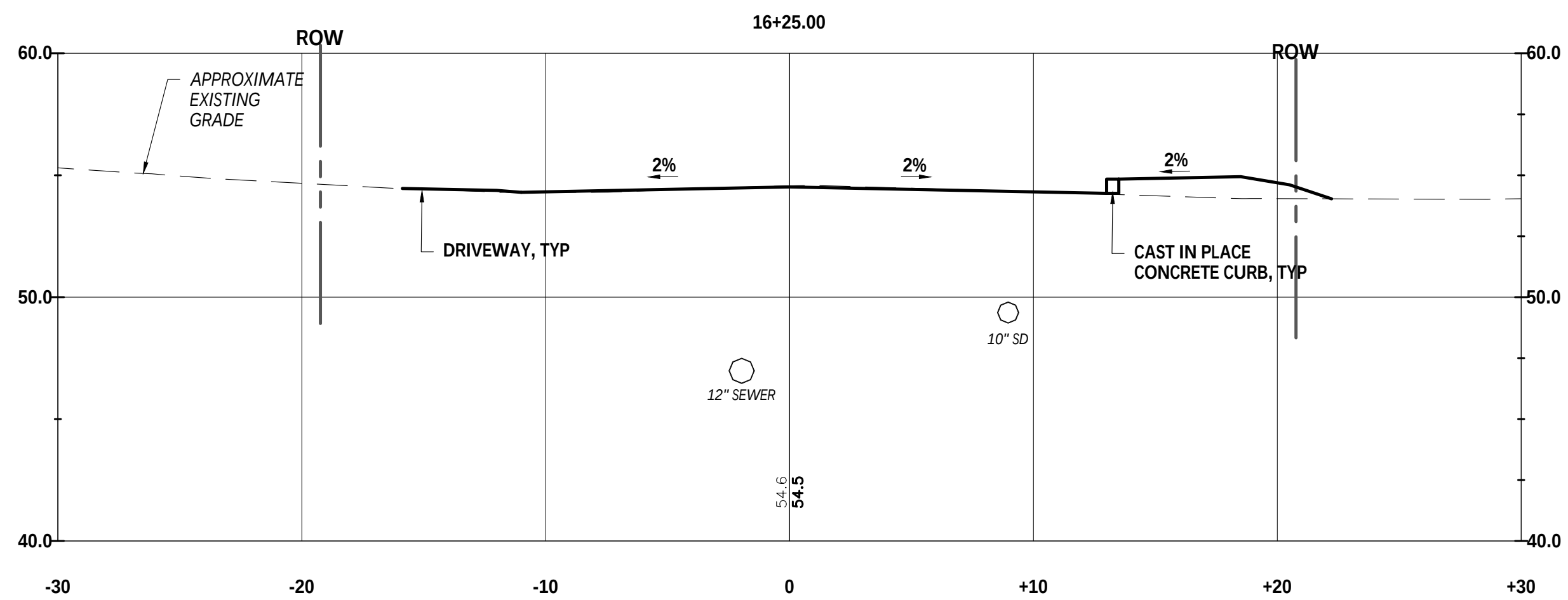
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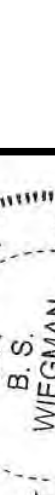


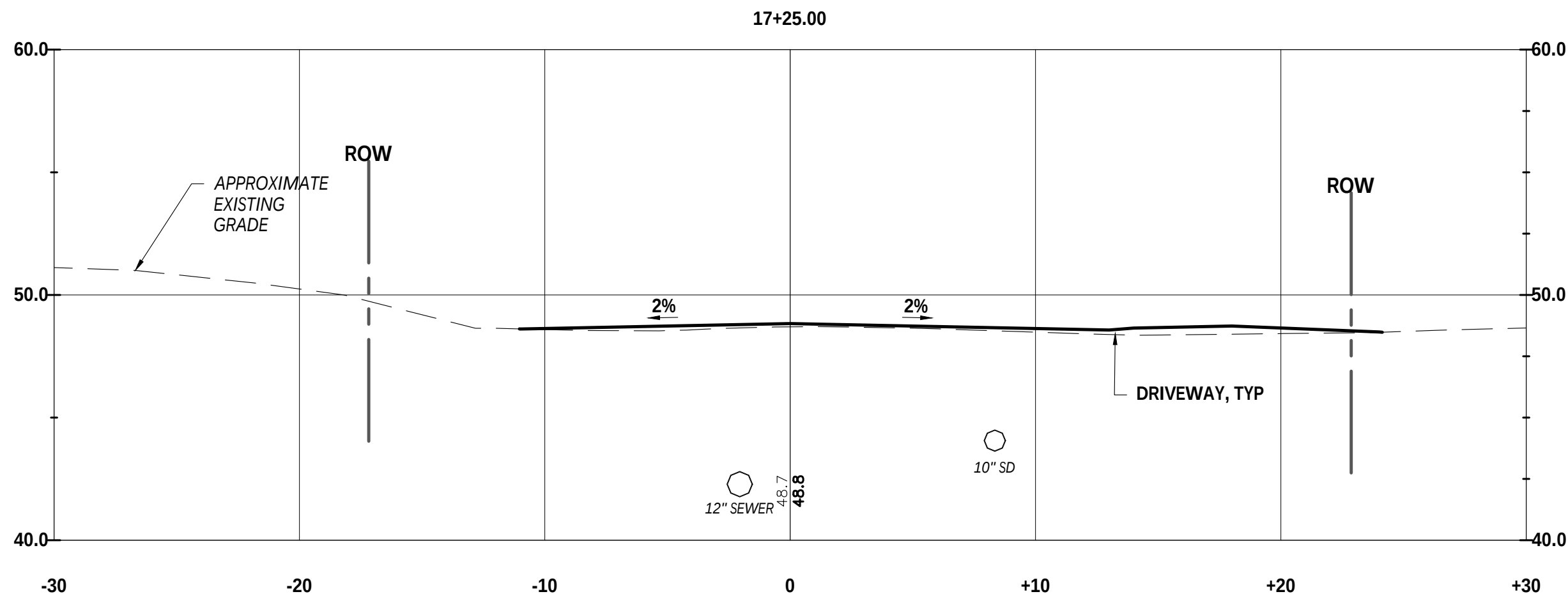
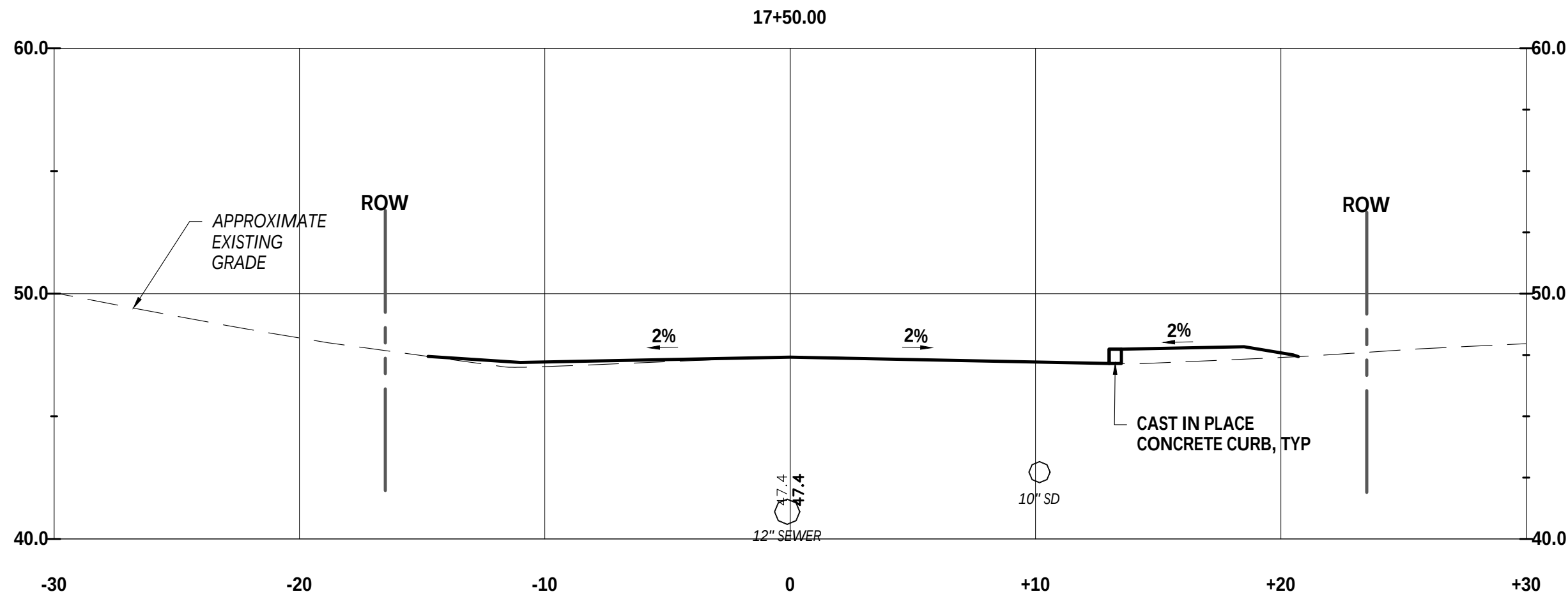
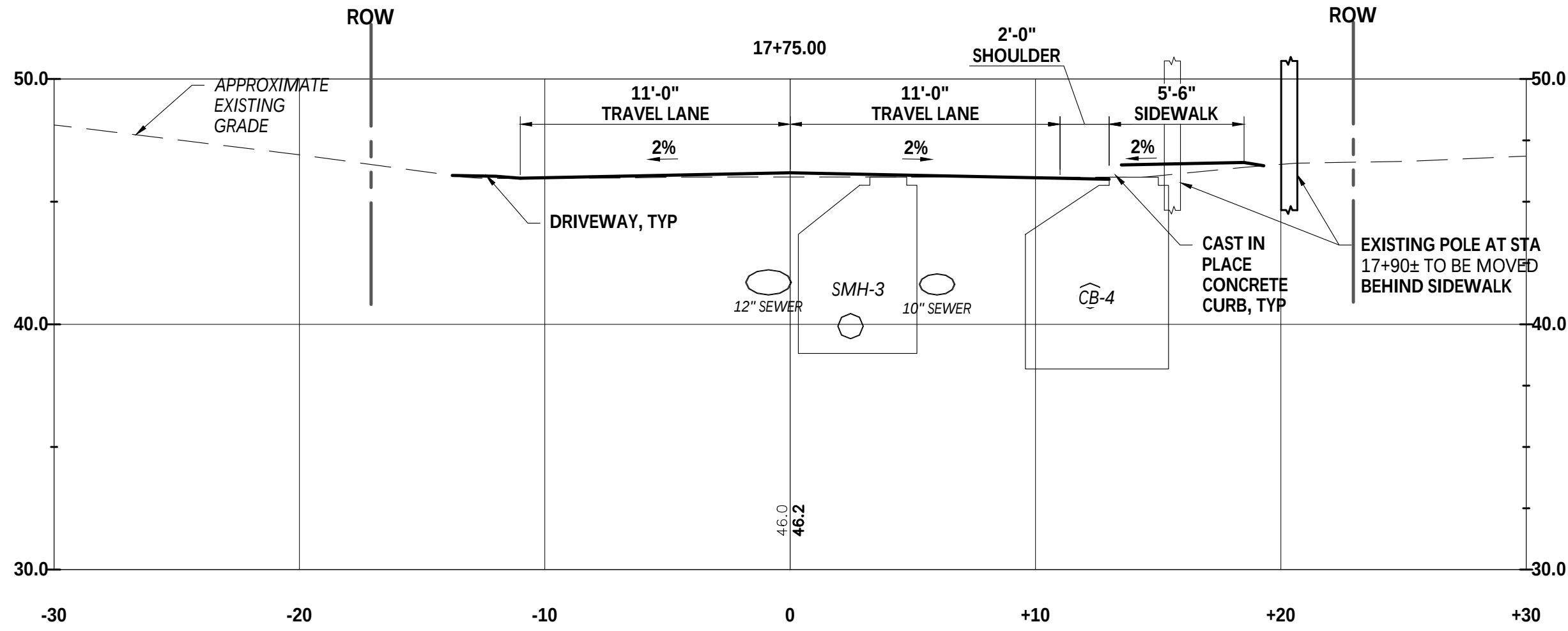
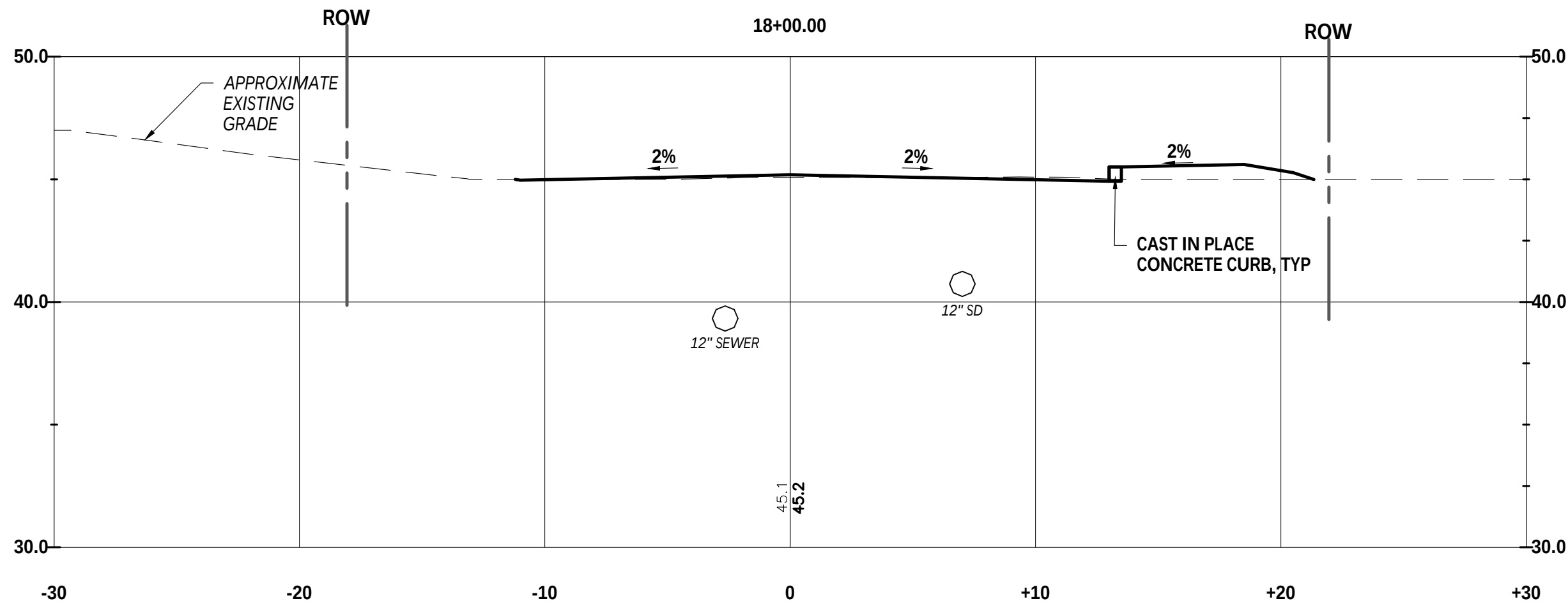
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				CAD COORD: M.LAPIERRE			
				CAD: M.LAPIERRE			
				CHECKED: M.EDWARDS			
				DATE: 6-14-2022			
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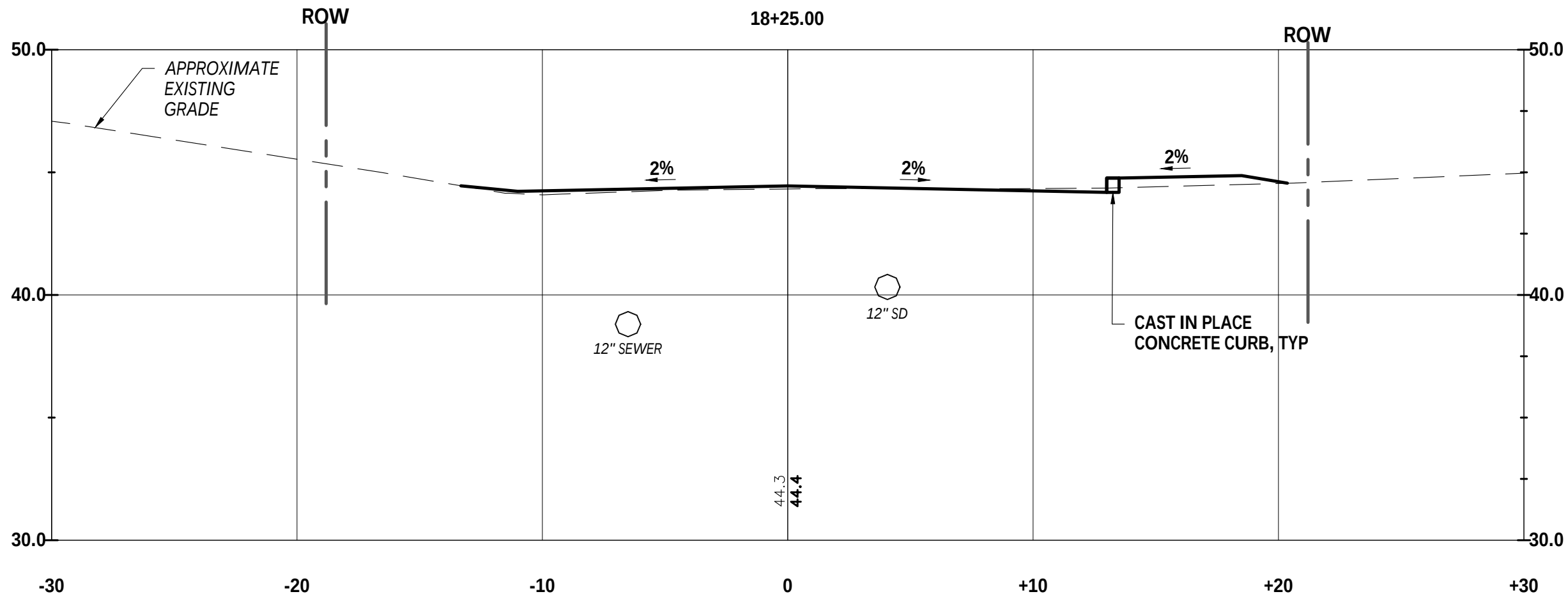
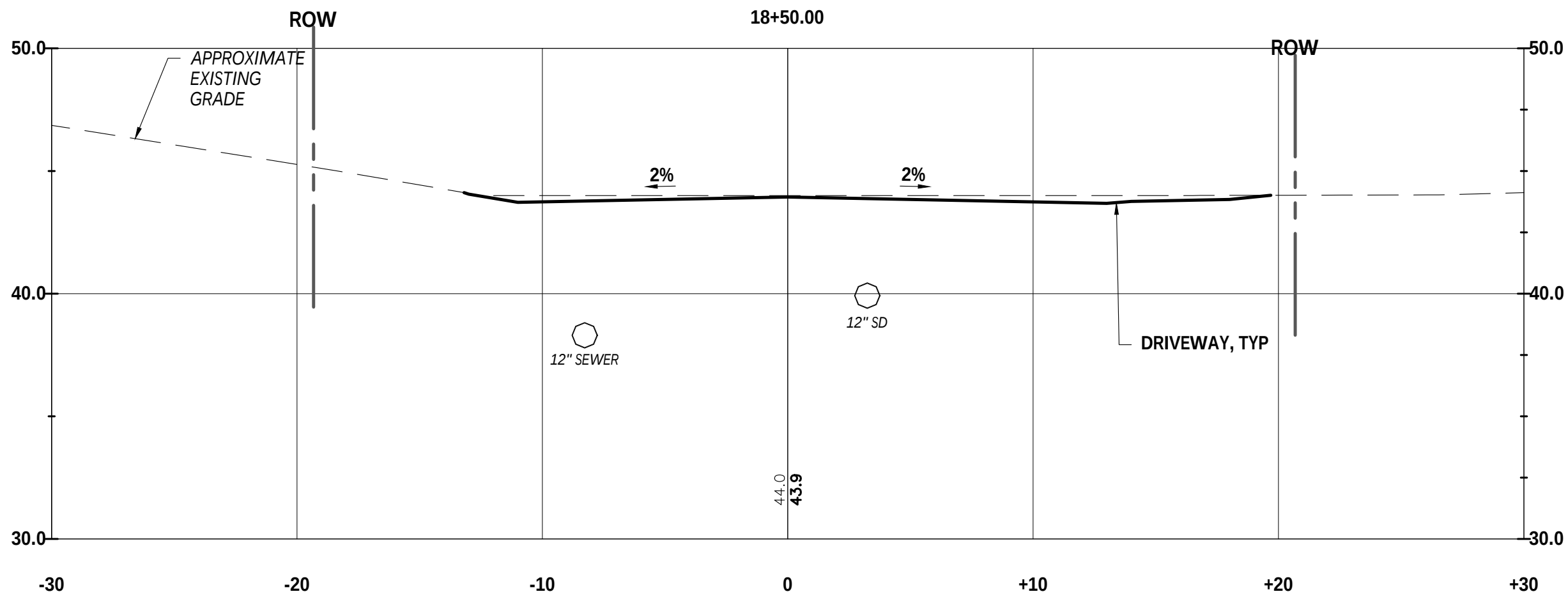
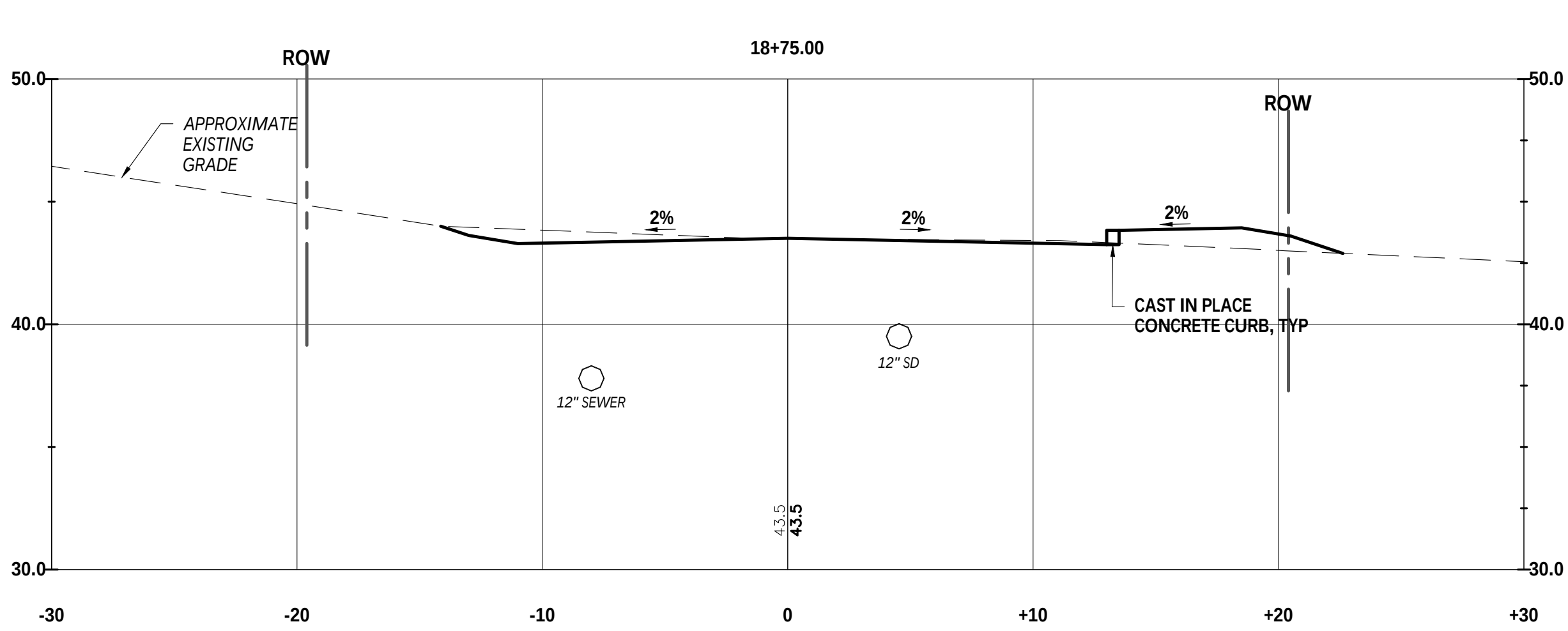
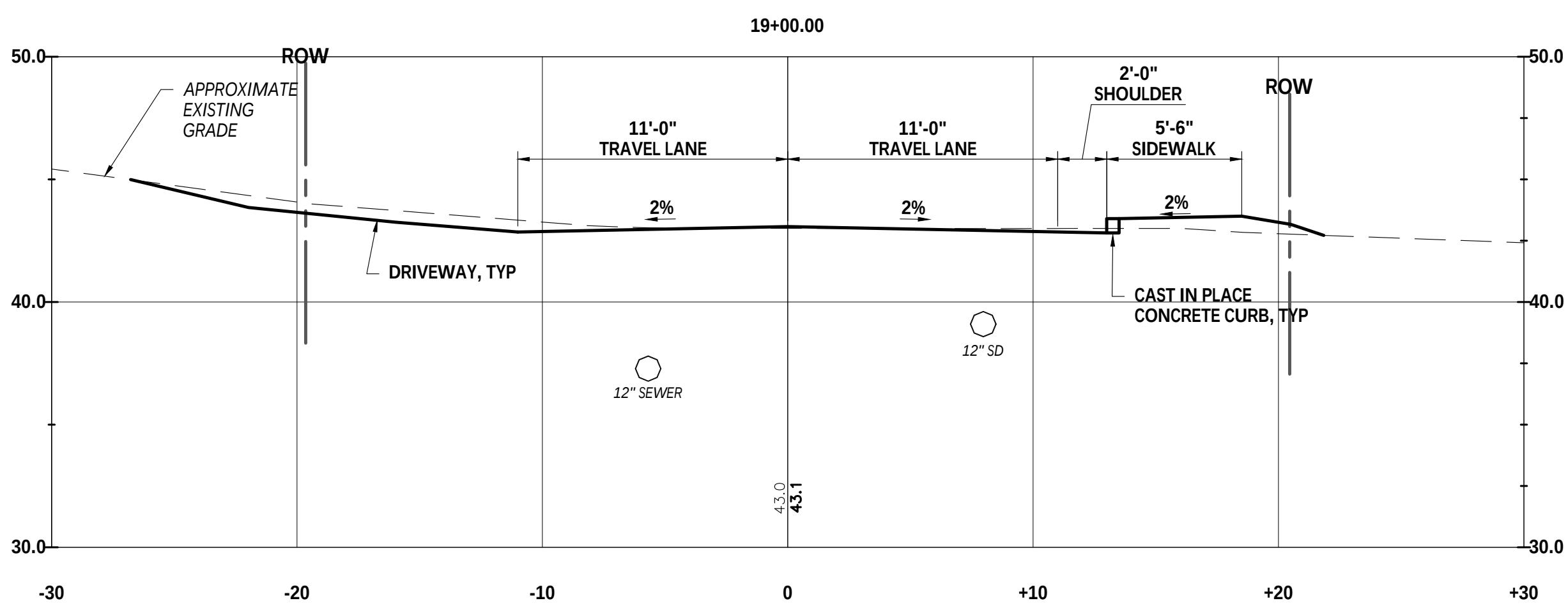
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DRAWING	CITY OF BATH, MAINE CRAWFORD DRIVE SIDEWALK AND ROAD IMPROVEMENTS	 207-725-8721 www.wright-pierce.com 11 BOWDOIN MILL ISLAND, SUITE 440 TOPSHAM, ME 04876			PROJECT NO: 20533 DESIGNED: LKREMER CAD COORD: M.LAPIERRE CAD: M.LAPIERRE CHECKED: NEDWARDS DATE: 6-14-2022 APPROVED: J.WIEGMAN DATE: 6-14-2022 SUBMISSION: CONTRACT DRAWINGS	NO	REVISIONS	APP'D. DATE
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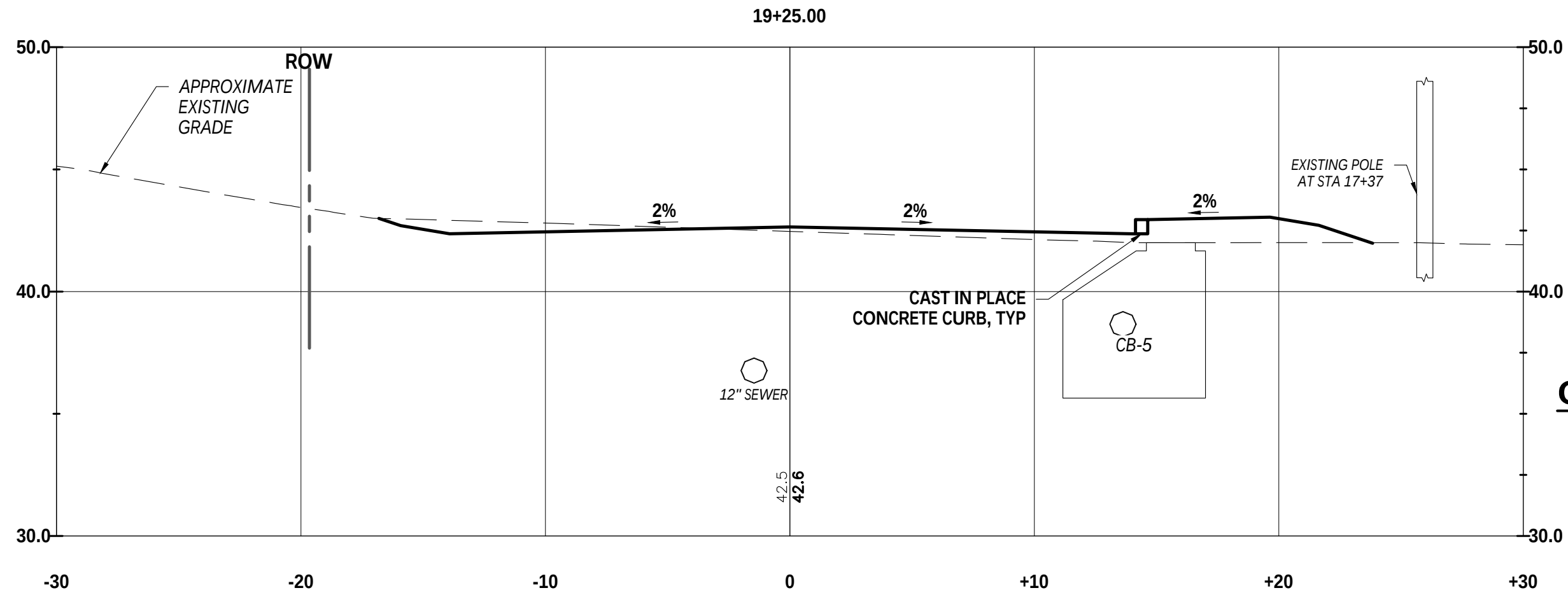
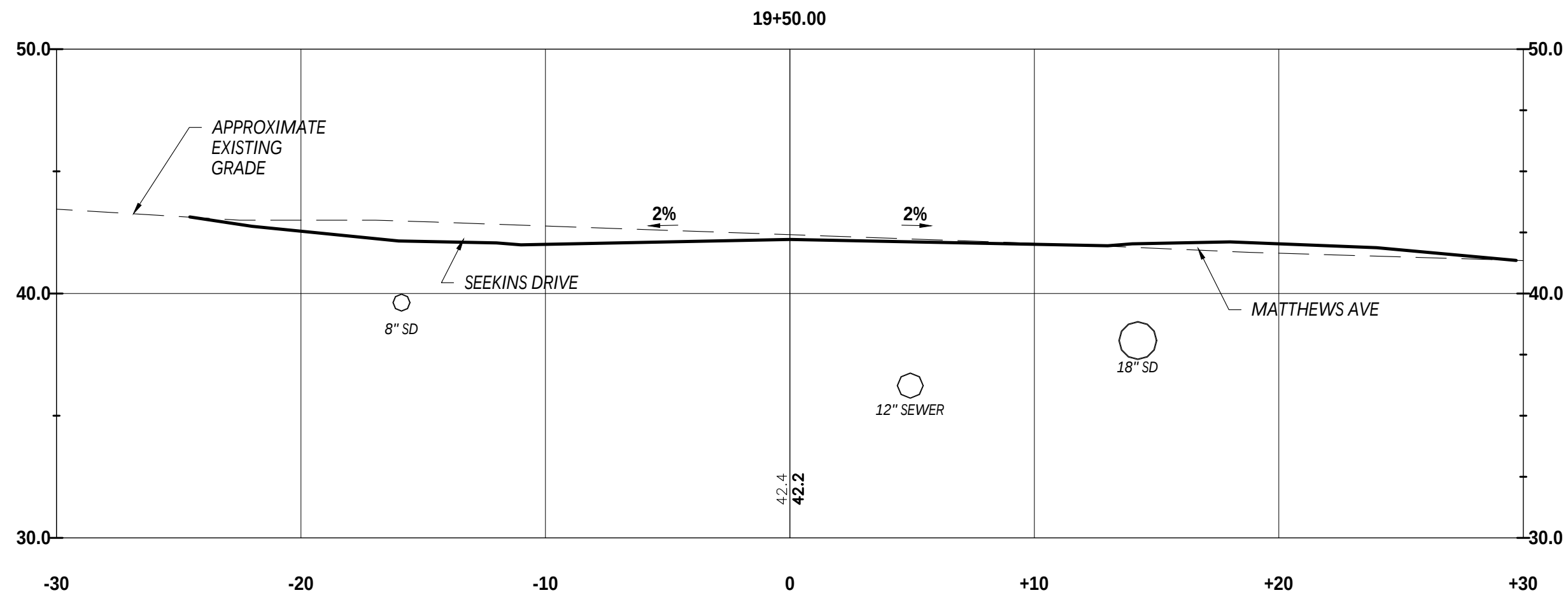
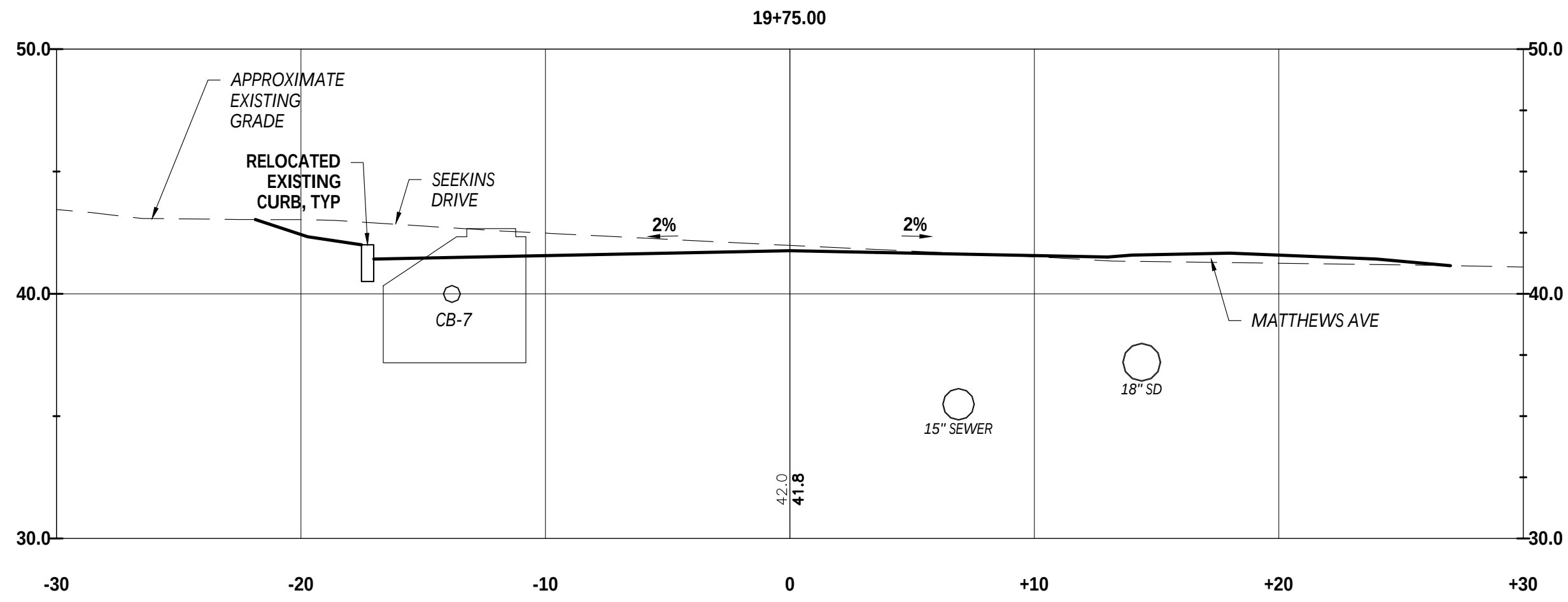
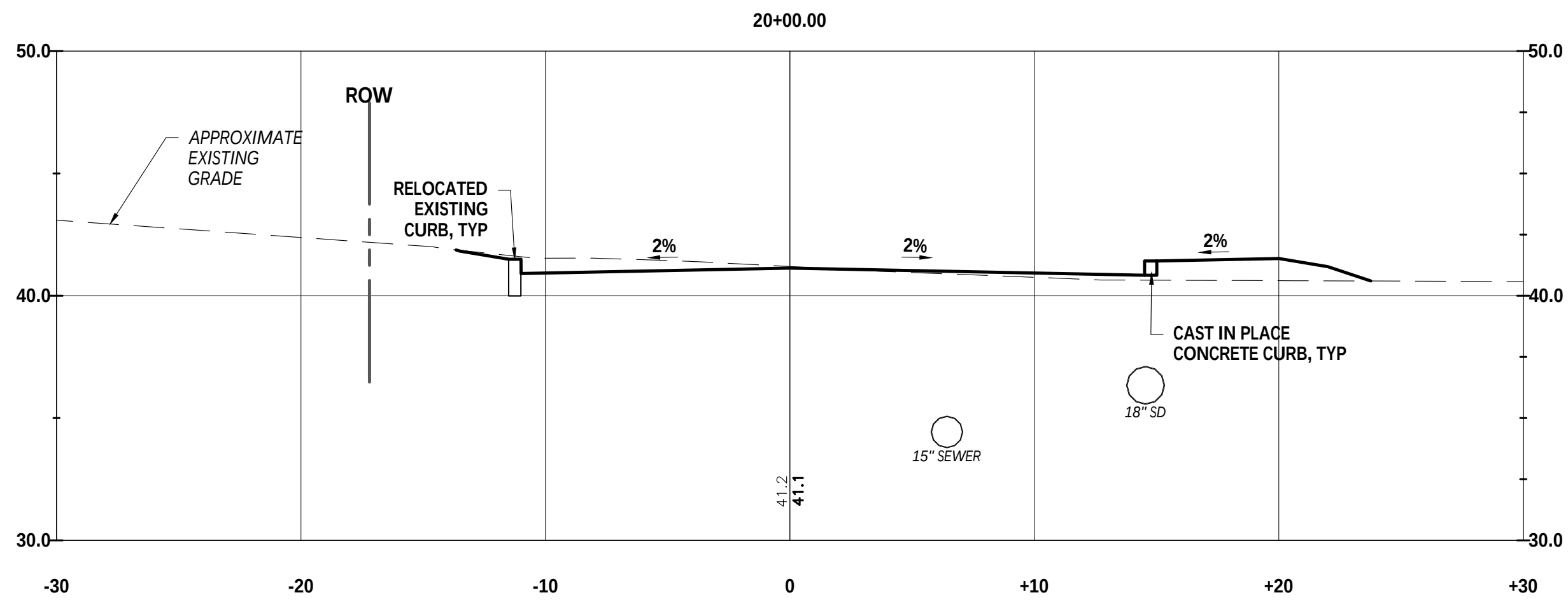


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WRIGHT-PIERCE 207-725-8721 www.wright-pierce.com 11 BOWDOIN MILL ISLAND, SUITE 140 TOPSHAM, ME 04076			
CITY OF BATH, MAINE CRAWFORD DRIVE SIDEWALK AND ROAD IMPROVEMENTS		CROSS SECTIONS STA: 17+25 TO STA: 19+00	
DRAWING C-16			

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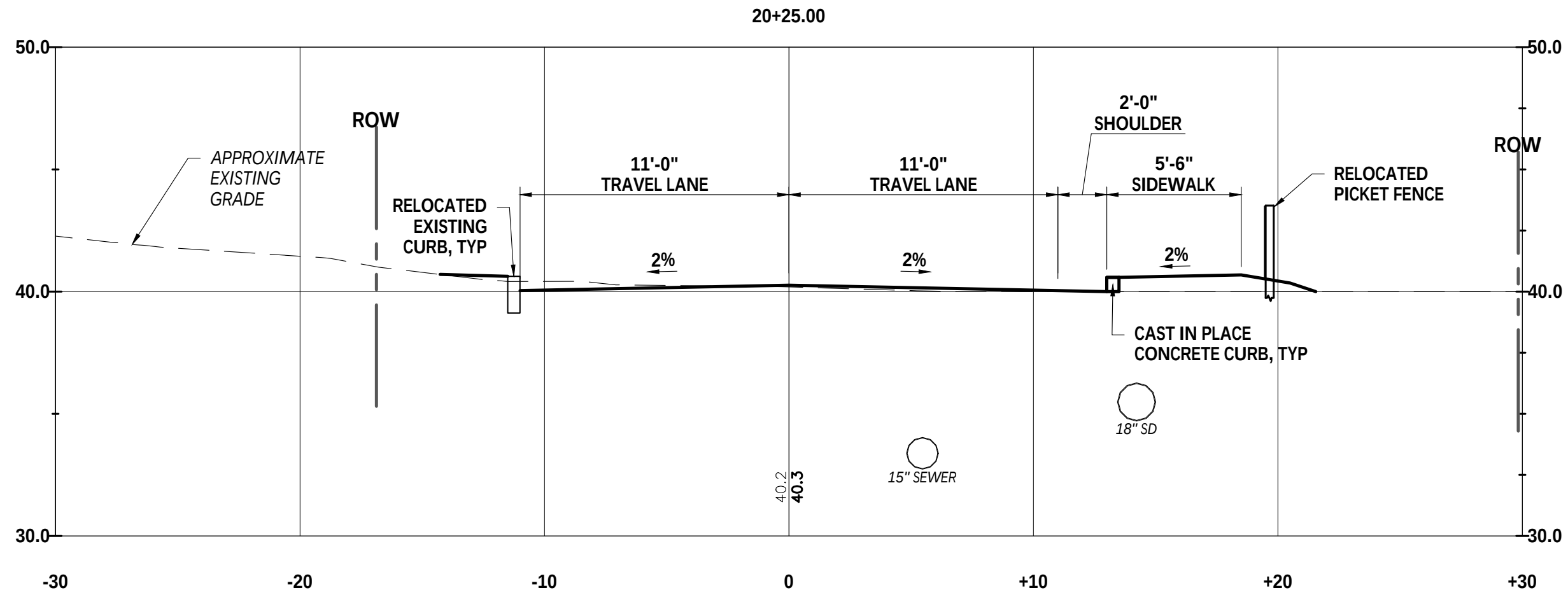
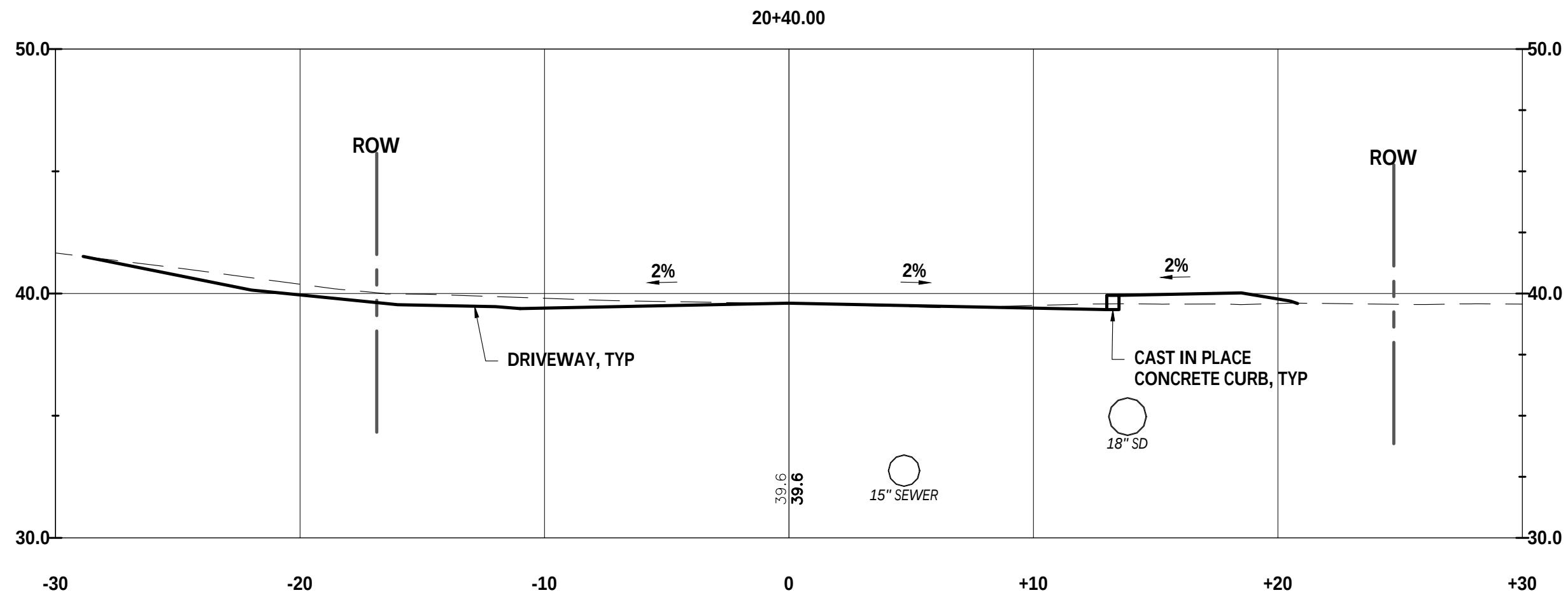
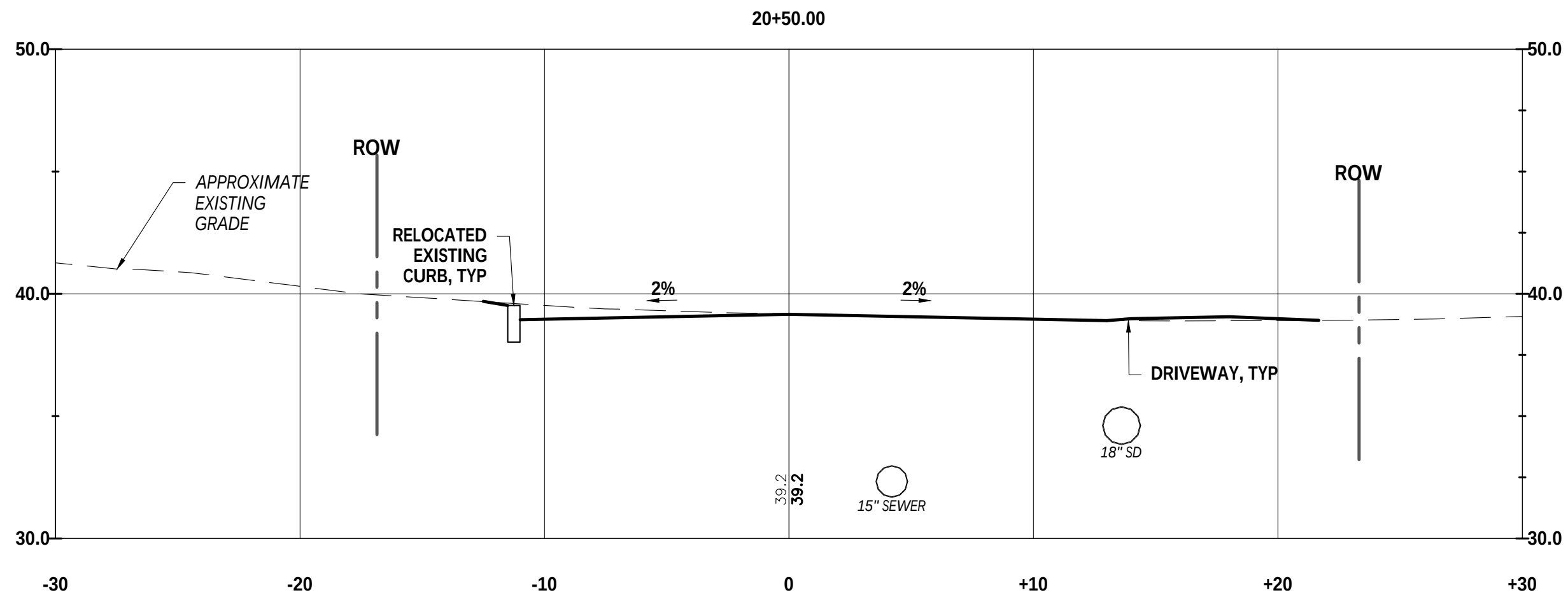
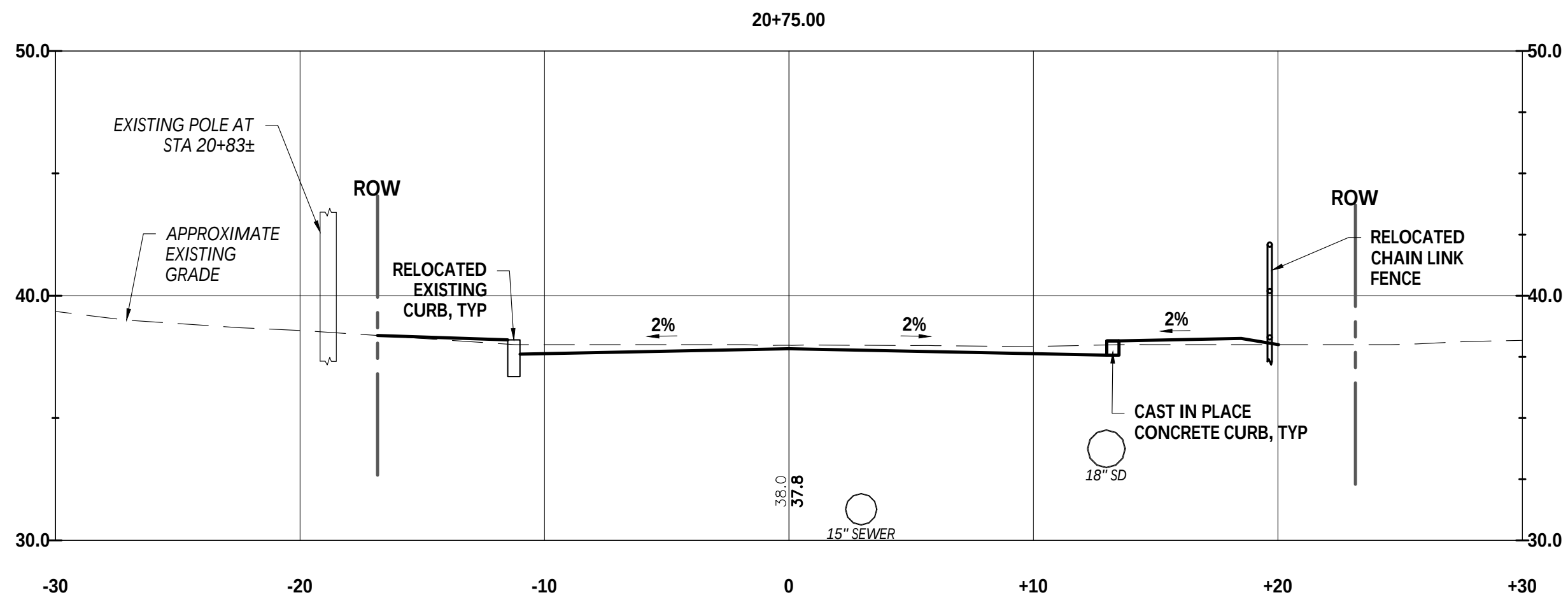
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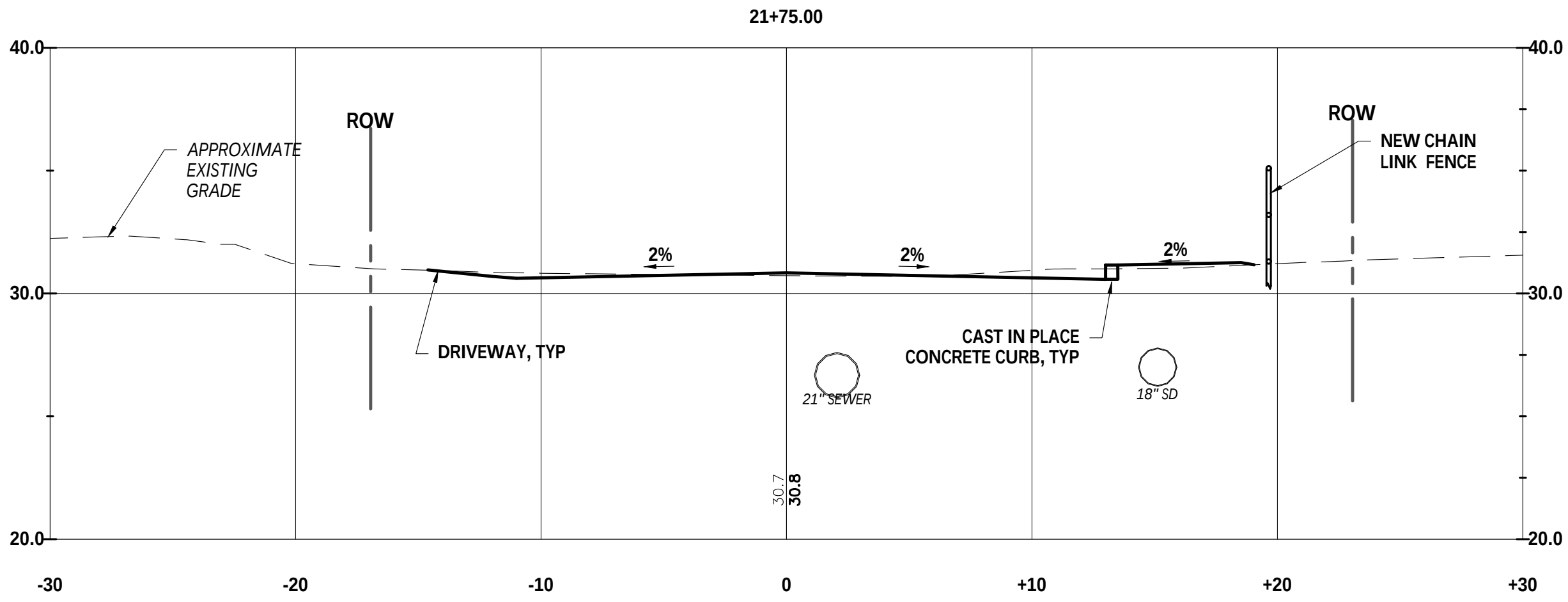
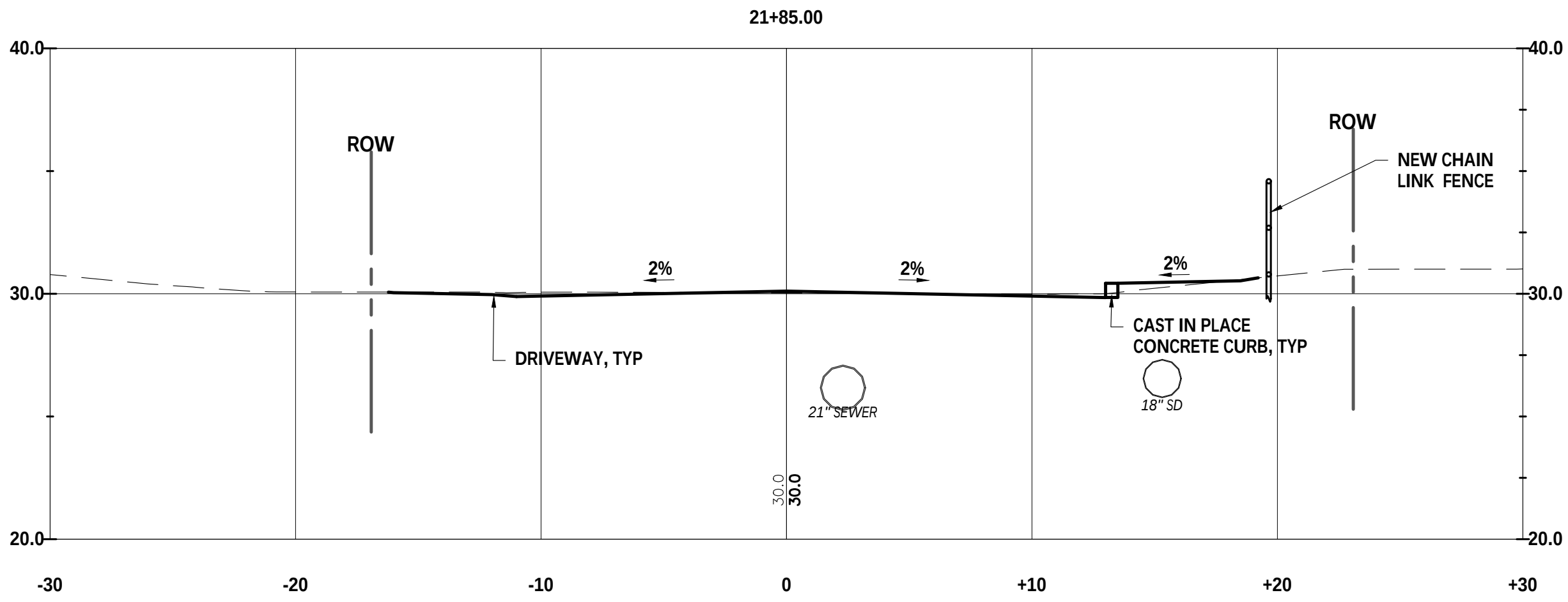
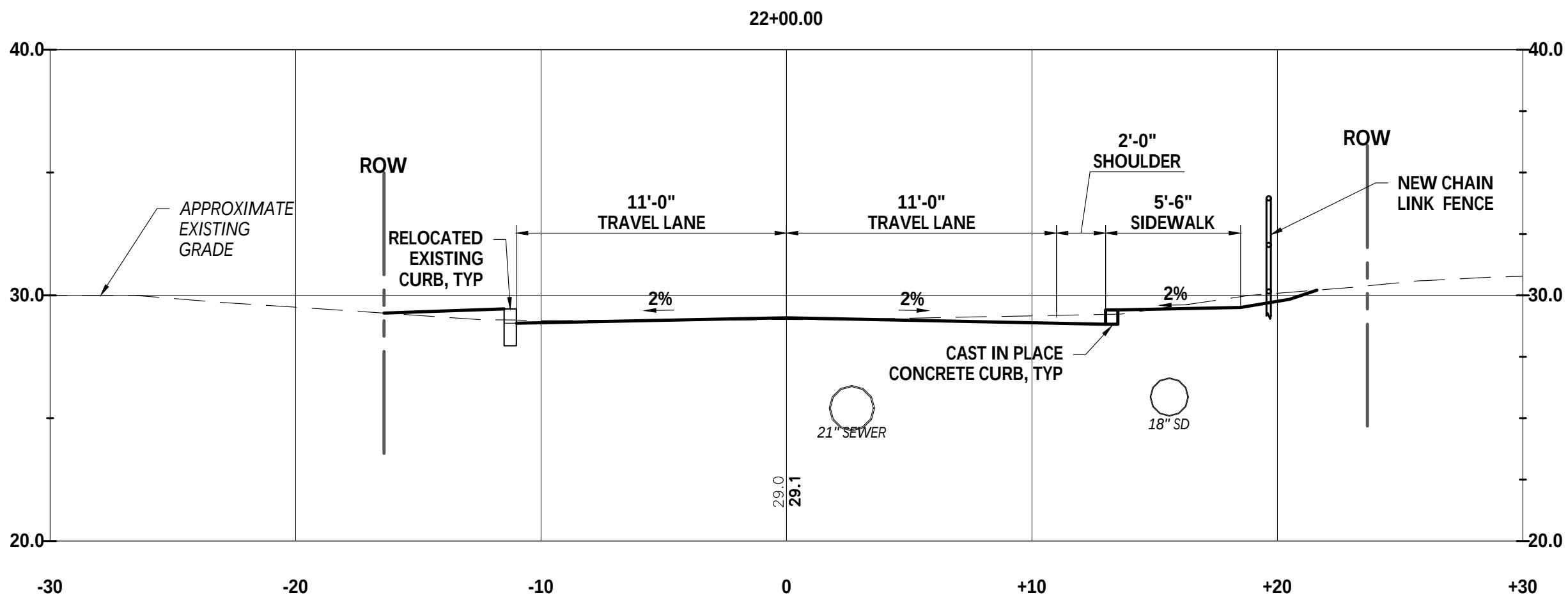
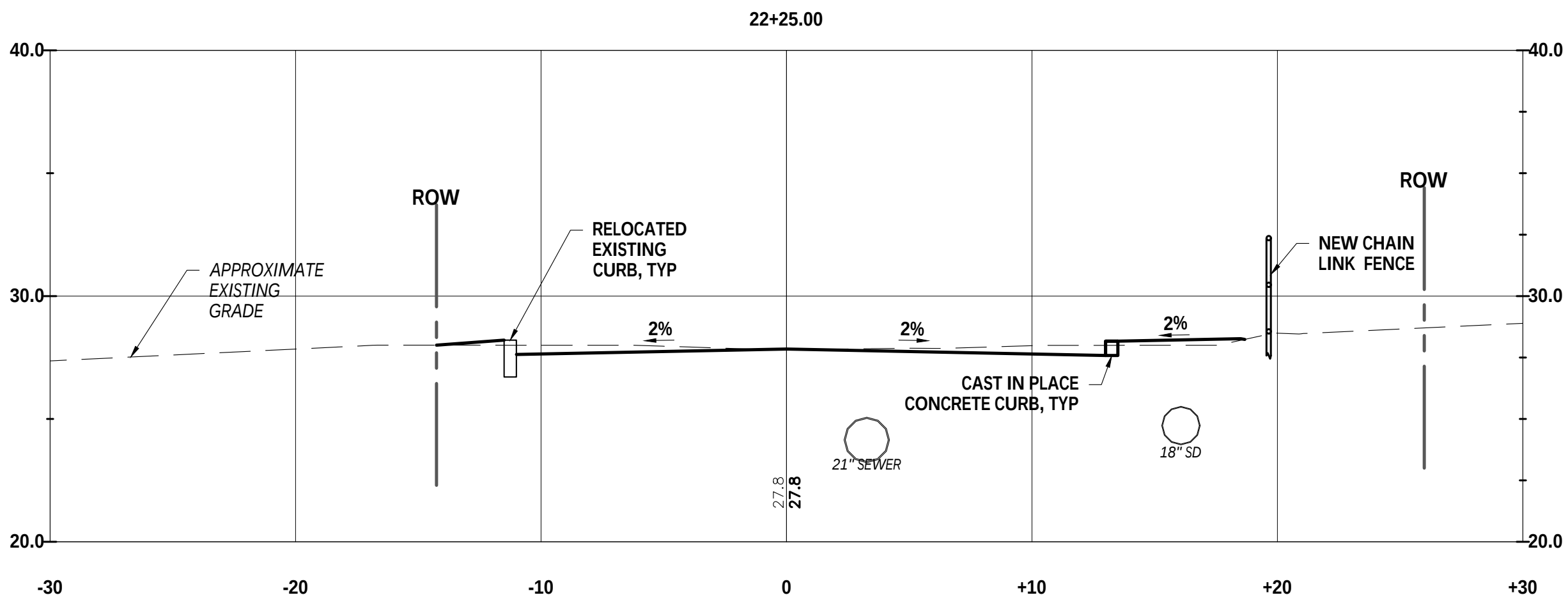
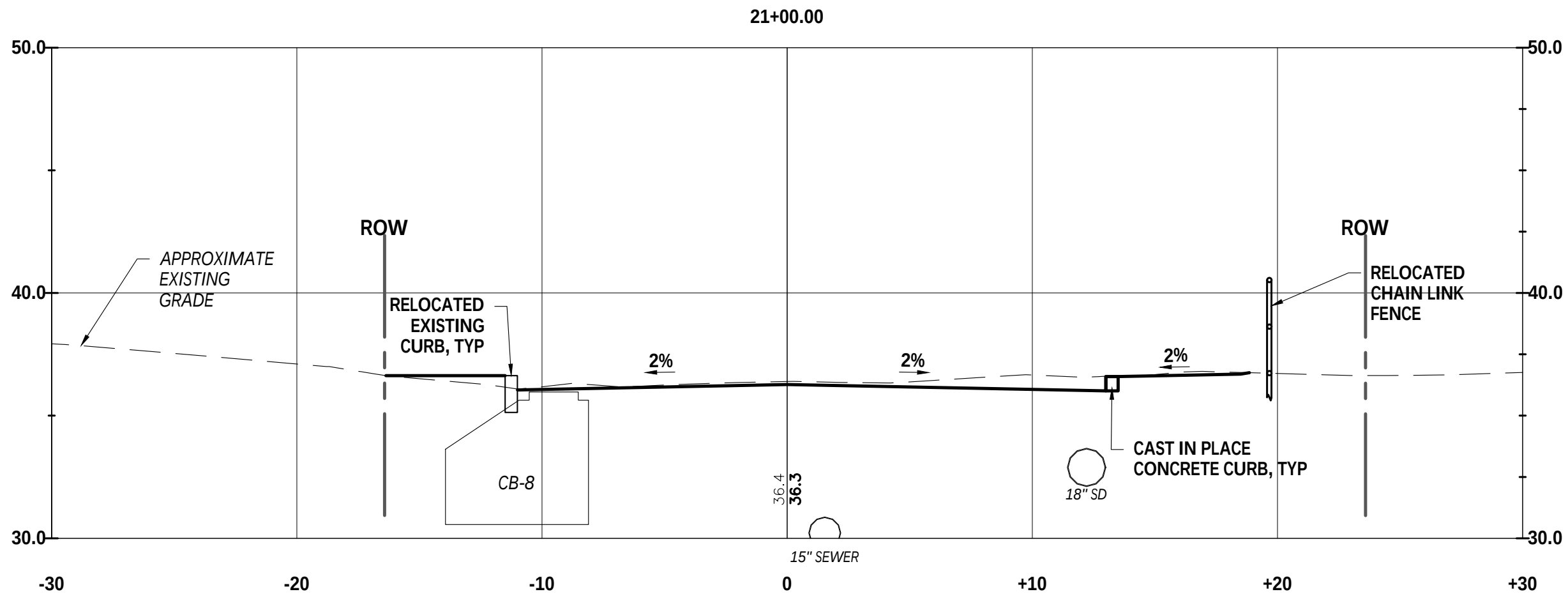
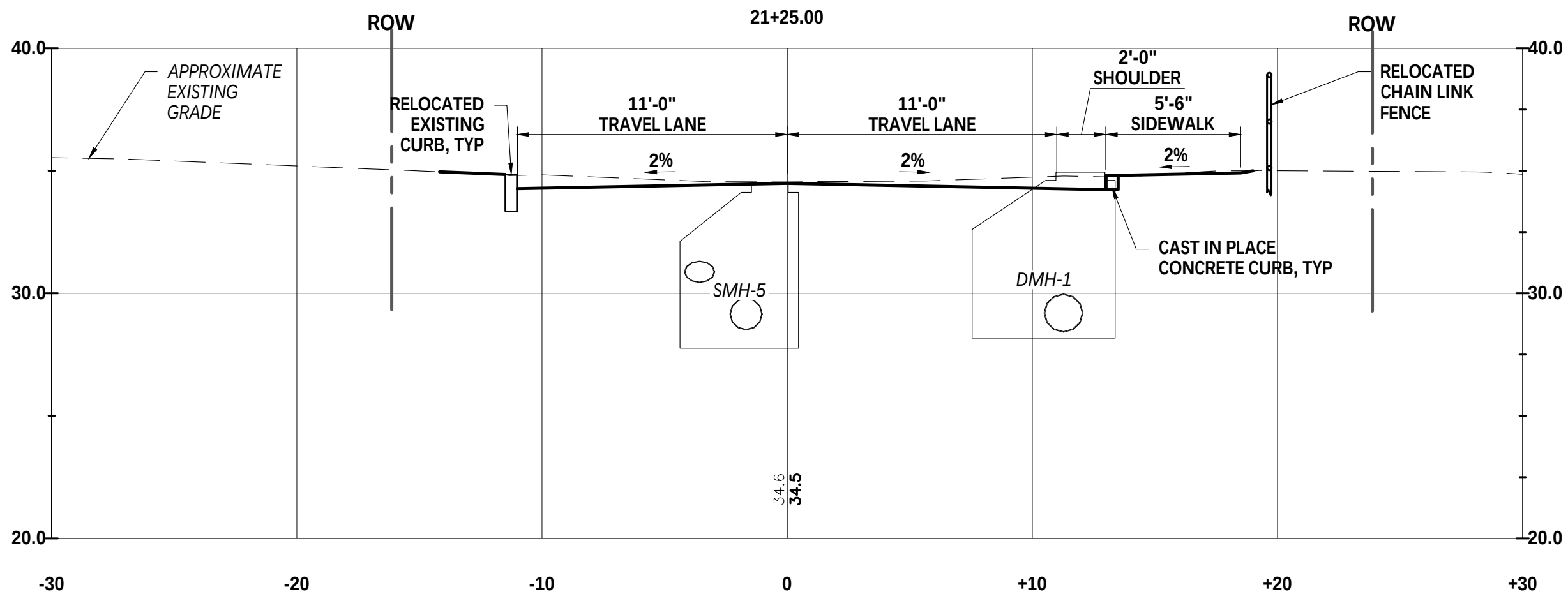
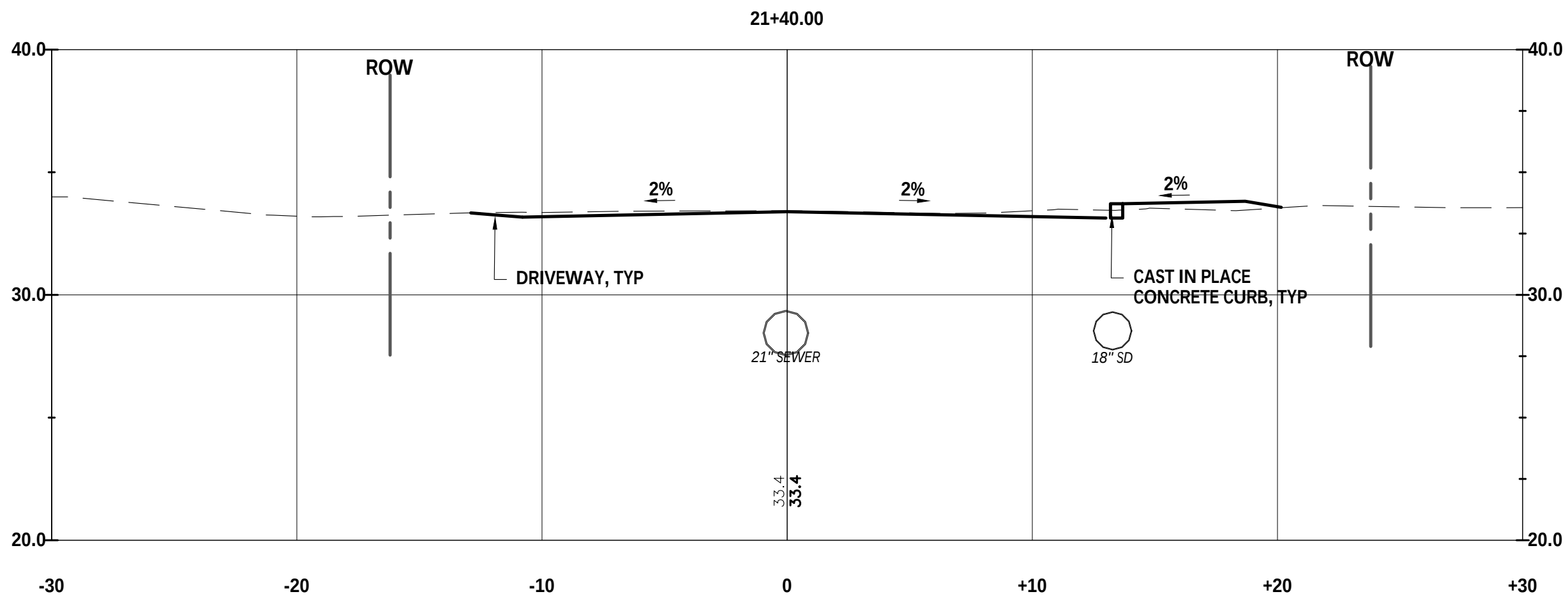
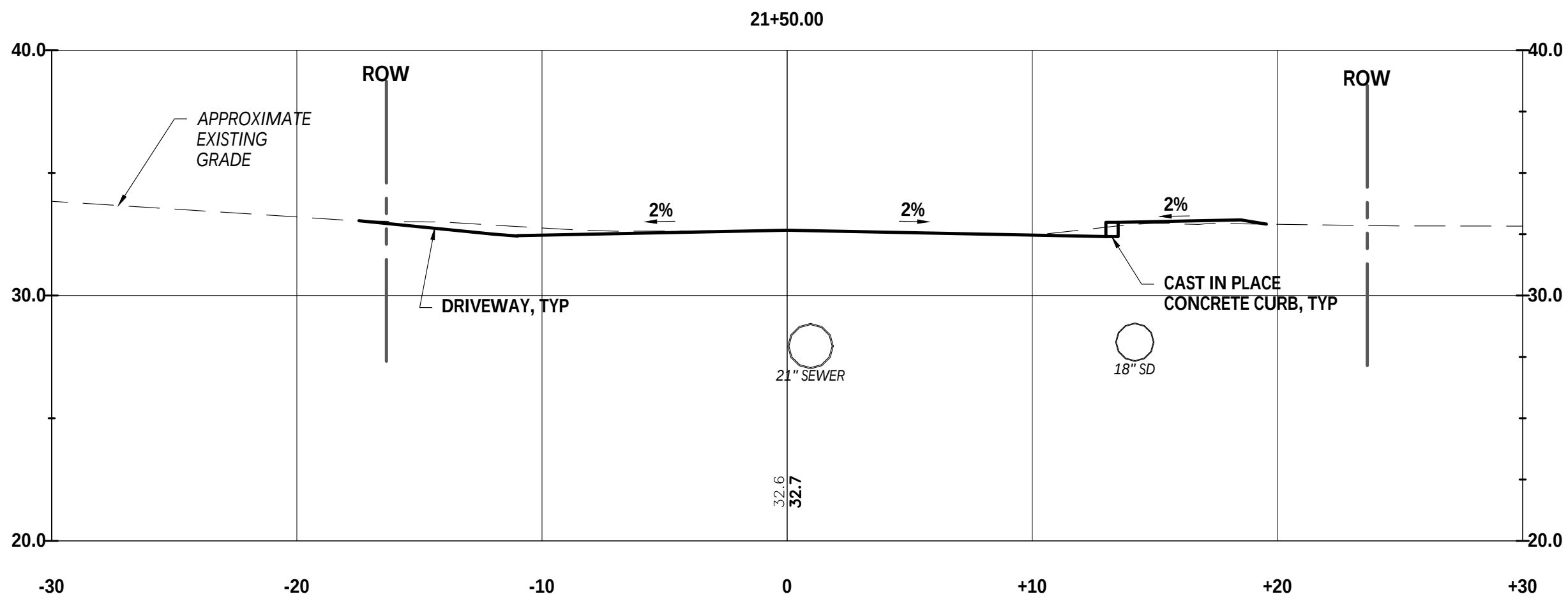
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CITY OF BATH, MAINE CRAWFORD DRIVE SIDEWALK AND ROAD IMPROVEMENTS CROSS SECTIONS STA: 19+25 TO STA: 20+75		 207-725-8721 www.wright-pierce.com 11 BOWDOIN MILL ISLAND, SUITE 140 TOPSHAM, ME 04076				REVISIONS		APPD	DATE
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				CAD COORD: M.LAPIERRE					
				CAD: M.LAPIERRE					
				CHECKED: N.EDWARDS					
				DATE: 6-14-2022					
				APPROVED: J.WIEGMAN					
				DATE: 6-14-2022					
				SUBMISSION: CONTRACT DRAWINGS					

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CROSS SECTIONS
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CAD COORD: MLAPIERRE	CAD: MLAPIERRE
CHECKED: N.EDWARDS	DATE: 6-14-2022
APPROVED: J.WEGMAN	DATE: 6-14-2022
SUBMISSION: CONTRACT DRAWINGS	

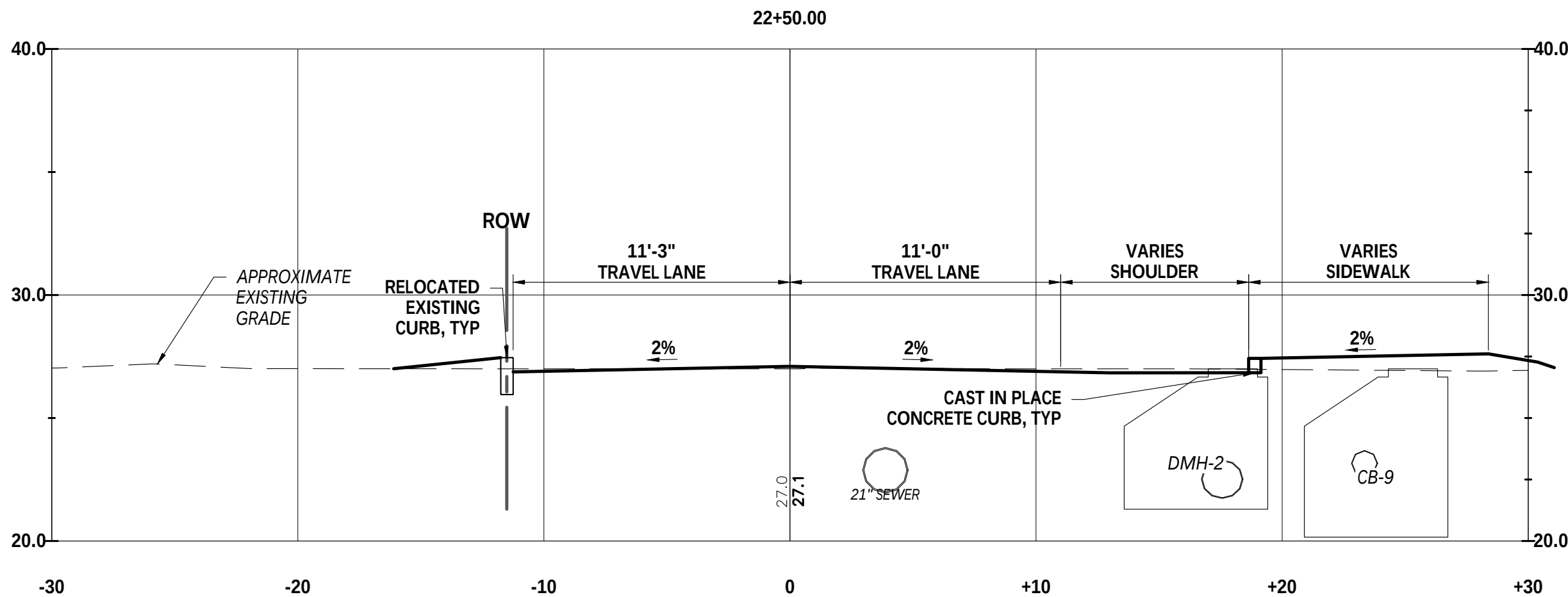
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CITY OF BATH, MAINE
CRAWFORD DRIVE
SIDEWALK AND ROAD IMPROVEMENTS

CROSS SECTIONS
STA: 21+00 TO STA: 22+25

DRAWING
C-18



CROSS SECTIONS
SCALE: 1"= 5'

CITY OF BATH, MAINE
CRAWFORD DRIVE
SIDEWALK AND ROAD IMPROVEMENTS

CROSS SECTIONS
STA: 22+50

DRAWING
C-19

PROJECT NO: 20533
DESIGNED: L.KREMER
CAD COORD: M.LAPIERRE
CAD: M.LAPIERRE
CHECKED: N.EDWARDS
DATE: 6-14-2022
APPROVED: J.WIEGMAN
DATE: 6-14-2022
SUBMISSION: CONTRACT DRAWINGS

NO

REVISIONS

APPD

DATE

STATE OF MAINE
JAN
WIEGMAN
NO 5852
PROFESSIONAL ENGINEER
JUNE 14, 2022

WRIGHT-PIERCE

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