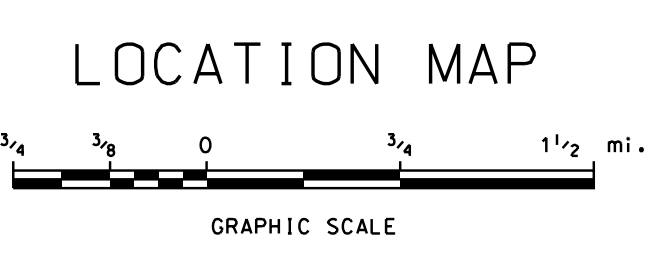
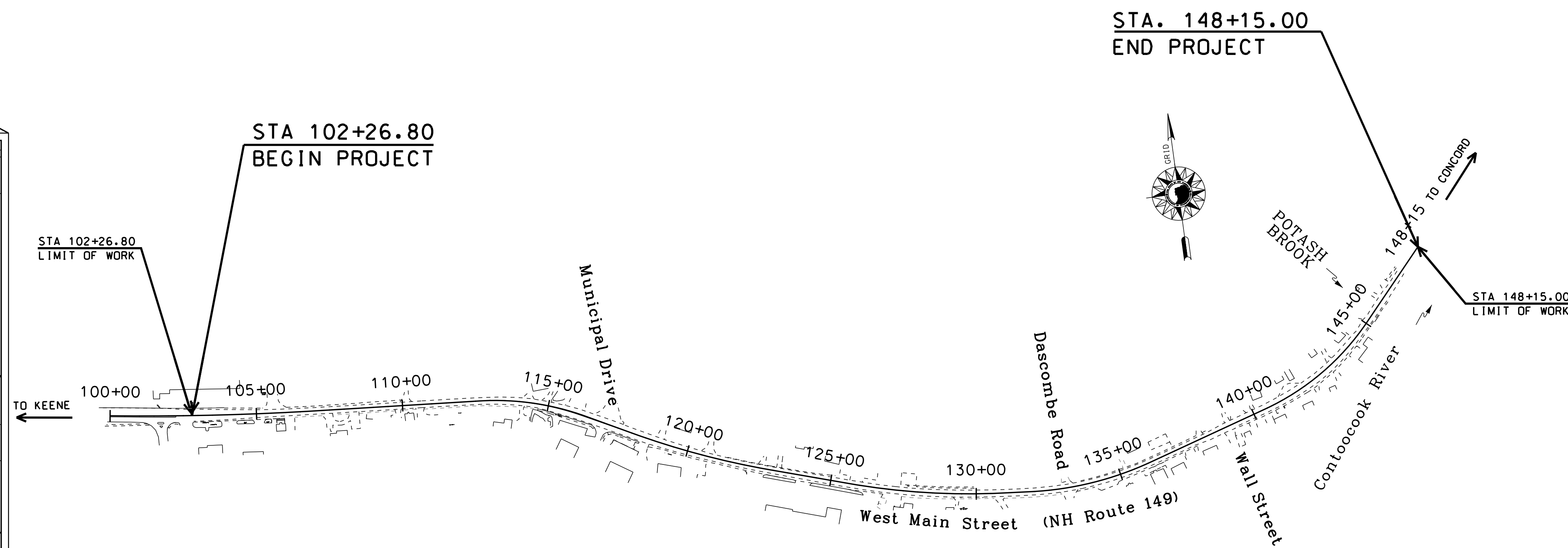
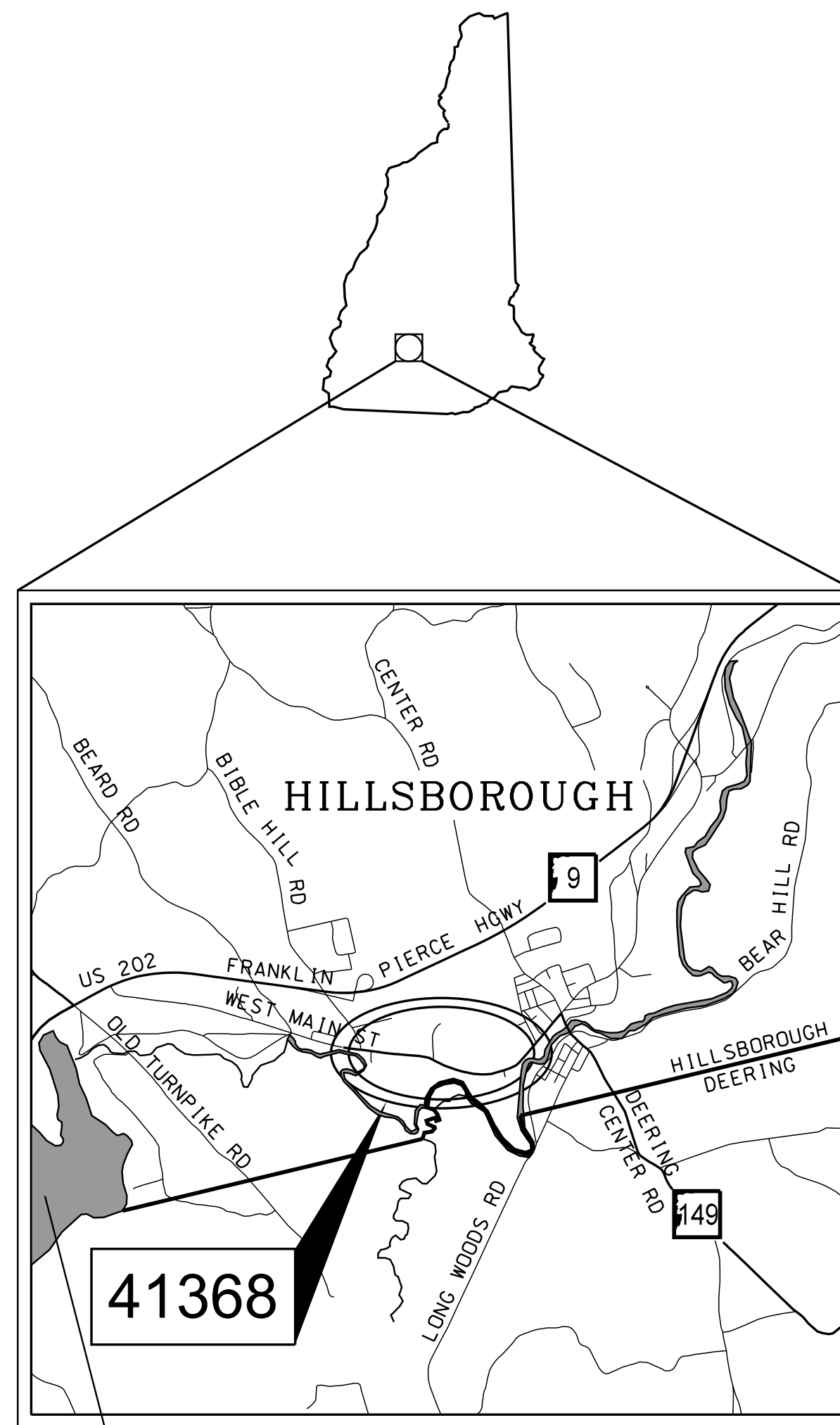


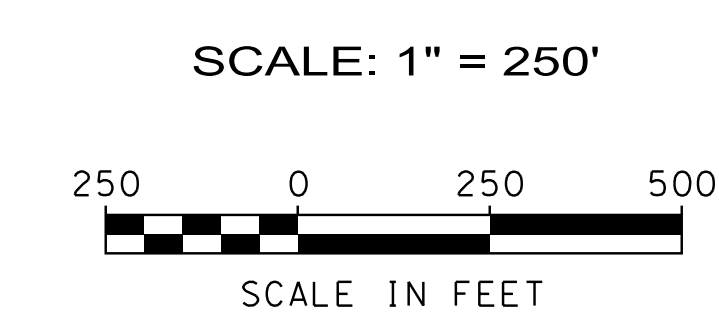
CONSTRUCTION PLANS FEDERAL AID PROJECT

FHWA NH PROJECT NO. X-A004(609)
NHDOT PROJECT NO. 41368
WEST MAIN STREET SIDEWALK IMPROVEMENTS
3/28/2023

DESIGN DATA	
AVERAGE DAILY TRAFFIC 20 21	7,260
AVERAGE DAILY TRAFFIC 20 41	8,860
PERCENT OF TRUCKS	UNKNOWN
DESIGN SPEED	35 MPH
LENGTH OF PROJECT	4588.2 FT
LENGTH OF SIDEWALK	4109.2



TOWN OF HILLSBOROUGH, NH
HILLSBOROUGH COUNTY



NOT FOR CONSTRUCTION

DRAFT FINAL PLANS
REVIEW SUBMISSION
SUBJECT TO CHANGE
DATE 3/28/2023

TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
FEDERAL PROJECT NO.	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
X-A004(609)	41368	1	112

ENGINEER: BRIAN M. BRESLEND NO. 15117
 DATE 3/28/2023
 CHECKED BY: BMB
 DRAWN BY: GMC/DID
 DATE 3/28/2023

PLANS PREPARED BY:

D&K NO. 324277

GENERAL

EDGE OF PAVEMENT TRAVELED WAY	PROPOSED ROADWAY	existing roadway	(pavement removed outside slope lines)
DRIVEWAYS		(label surface type)	
BUILDINGS		(label house or type of building)	(building to be removed)
FOUNDATION		(label type)	
LEACH FIELD		leach field	
BRIDGE CROSSINGS	STREAM	OVERPASS	
STEPS AND WALK		(label type)	
INTERMITTENT WATER COURSE			
SHORE LINE	river/stream	pond	(label name of water body)
POTENTIAL WET AREA SYMBOL			
BRUSH OR WOODS LINE			
TREES (PLANS)	(deciduous)	(coniferous)	(stump)
TREE OR STUMP (CROSS-SECTIONS)			(show station, circumference in feet & type)
HEDGE		(label type)	
MONITORING WELL		mon	
WELL			
FLAG POLE			

ORIGINAL GROUND (TYPICALS)	
ROCK OUTCROP	
ROCK LINE (TYPICALS & SECTIONS ONLY)	
GUARDRAIL (label type)	existing bgr PROPOSED cgr
JERSEY BARRIER	
CURB (LABEL TYPE)	
STONE WALL	
RETAINING WALL (LABEL TYPE)	(points toward retained ground)
FENCE (LABEL TYPE)	
SIGNS	(single post) (double post)
GAS PUMP	gp
FUEL TANK (ABOVE GROUND)	ft (label size & type)
STORAGE TANK FILLER CAP	fc
SEPTIC TANK	
GRAVE	gr
MAILBOX	mb
VENT PIPE	vp
SATELLITE DISH ANTENNA	da
PHONE	ph
GROUND LIGHT/LAMP POST	gl lp
BORING LOCATION	B
TEST PIT	TP
INTERSTATE NUMBERED HIGHWAY	293
UNITED STATES NUMBERED HIGHWAY	3
STATE NUMBERED HIGHWAY	102

SHORELAND - WETLAND

WETLAND DESIGNATION AND TYPE	
DELINEATED WETLAND	PUB2E
ORDINARY HIGH WATER	OHW
TOP OF BANK	TOB
TOP OF BANK & ORDINARY HIGH WATER	TOBOHW
NORMAL HIGH WATER	NHW
WIDTH AT BANK FULL	WBF
PRIME WETLAND	PWET
PRIME WETLAND 100' BUFFER	PWET100
NON-JURISDICTIONAL DRAINAGE AREA	NJDA
COWARDIN DISTINCTION LINE	CDL
TIDAL BUFFER ZONE	TBZ
DEVELOPED TIDAL BUFFER ZONE	DTBZ
HIGHEST OBSERVABLE TIDE LINE	HOTL
MEAN HIGH WATER	MHW
MEAN LOW WATER	MLW
VERNAL POOL	VP
SPECIAL AQUATIC SITE	SAS
REFERENCE LINE	REF
WATER FRONT BUFFER	WB50
NATURAL WOODLAND BUFFER	NWB150
PROTECTED SHORELAND	PS250
INVASIVE SPECIES LABEL	I.S.
INVASIVE SPECIES	INV

FLOODPLAIN / FLOODWAY

500 YEAR FLOODPLAIN BOUNDARY	FP500
100 YEAR FLOODPLAIN BOUNDARY	FP100
FLOODWAY	FW

ENGINEERING

CONSTRUCTION BASELINE	
PC, PT, POT (ON CONST BASELINE)	
PI (IN CONSTRUCTION BASELINES)	
INTERSECTION OR EQUATION OF TWO LINES	
ORIGINAL GROUND LINE (PROFILES AND CROSS-SECTIONS)	
PROFILE GRADE LINE (PROFILES AND CROSS-SECTIONS)	
CLEARING LINE	
SLOPE LINE	
SLOPE LINE (FILL)	
SLOPE LINE (CUT)	
PROFILES AND CROSS SECTIONS:	
ORIGINAL GROUND ELEVATION (LEFT)	72.5
FINISHED GRADE ELEVATION (RIGHT)	79.14

ENGINEER: BRIAN M. BRESLEND NO. 15117

D&K NO. 324277



REVISION DATE	9-1-2016
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TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
STANDARD SYMBOLS			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
stdsyml1_2	41368	3	112

SDR PROCESSED	DATE	DATE	DATE	DATE
NEW DESIGN	GMC/OID	GMC/OID	SMB	SMB
SHEET CHECKED	BRIAN M. BRESLEND	NO. 15117		
AS BUILT DETAILS				

REVISIONS AFTER PROPOSAL

STATION

STATION

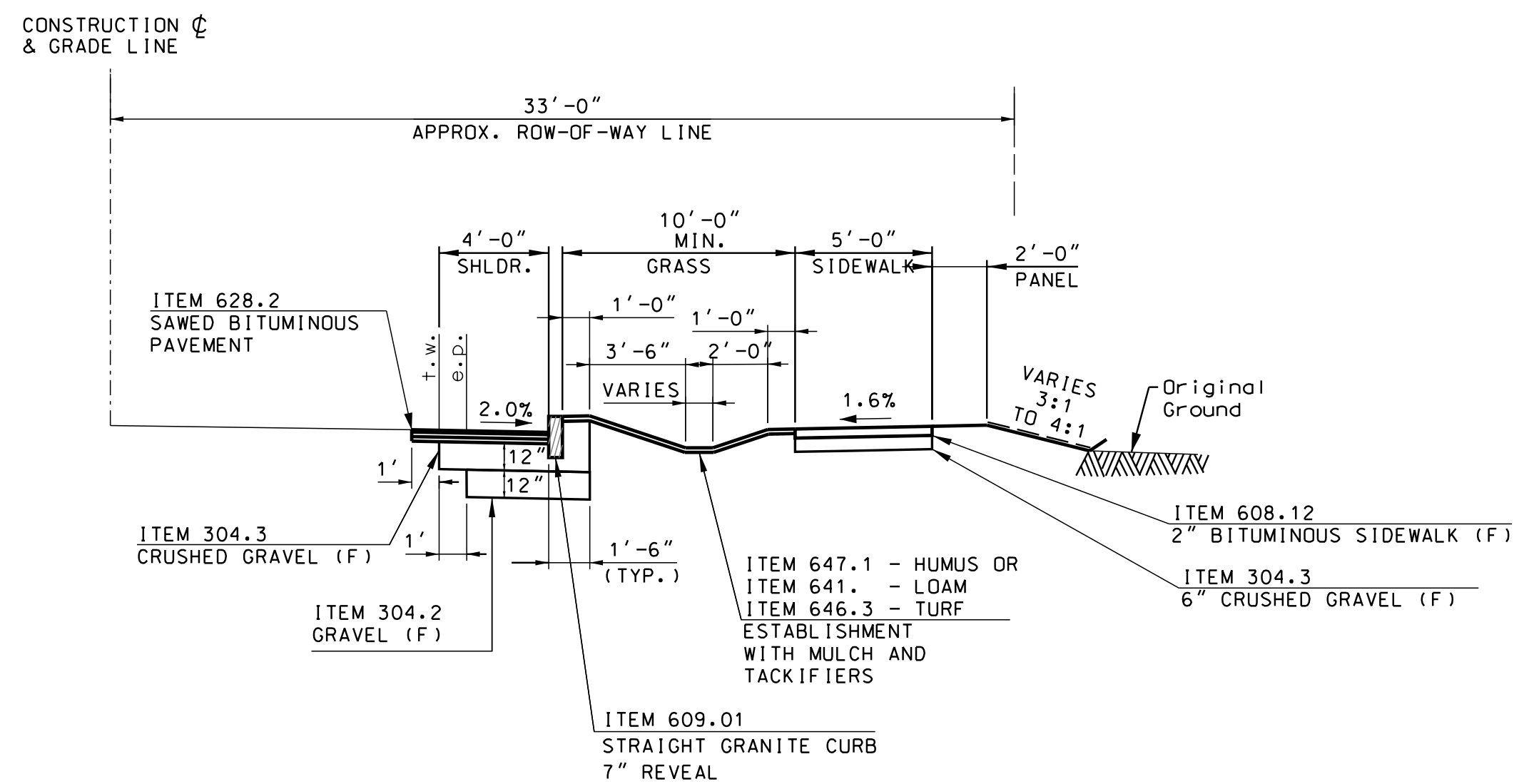
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NUMBER

DATE

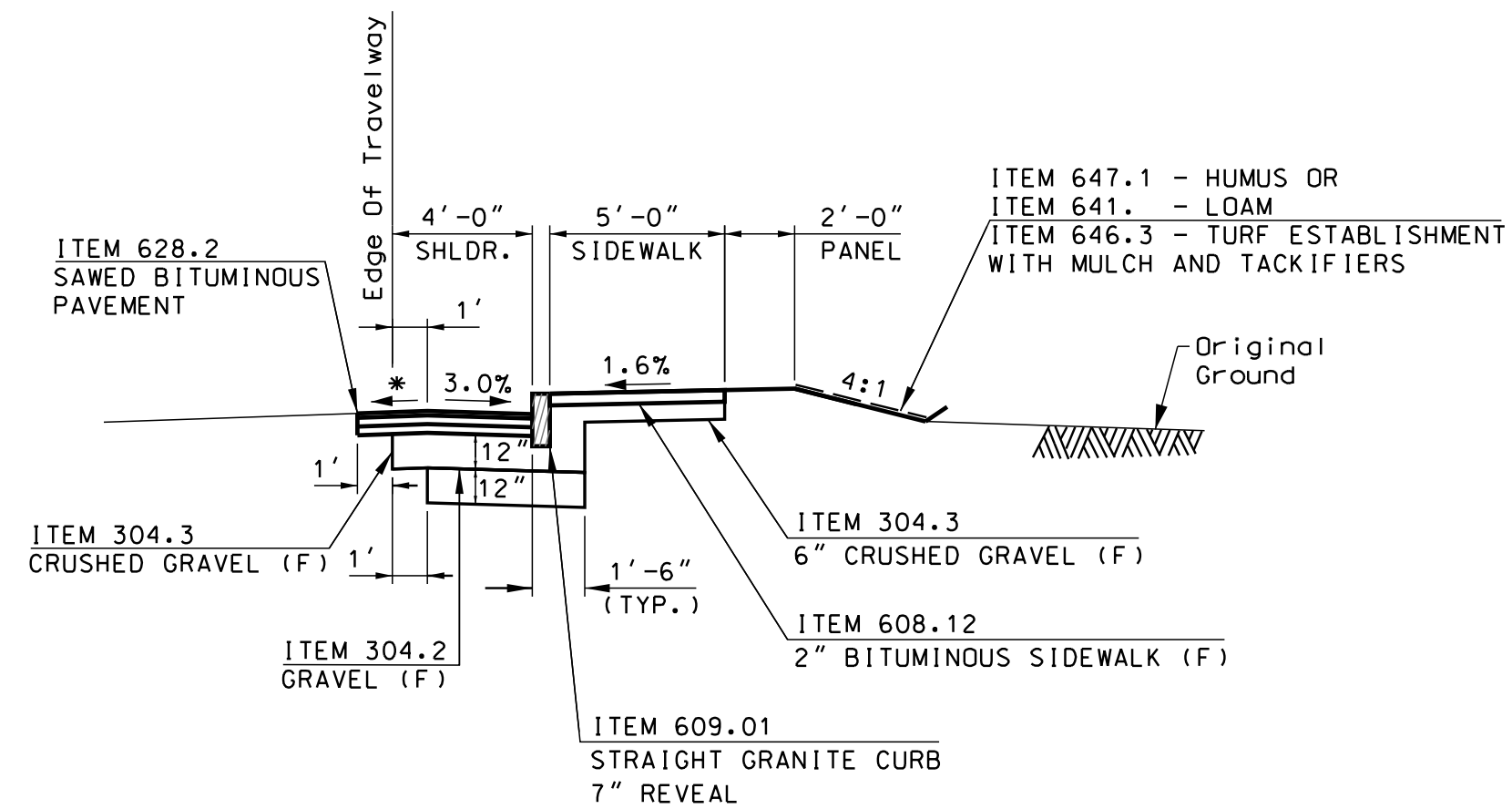
DATE

DESCRIPTION



WEST MAIN STREET PROPOSED 5' SIDEWALK AND GRASS STRIP WITH SWALE

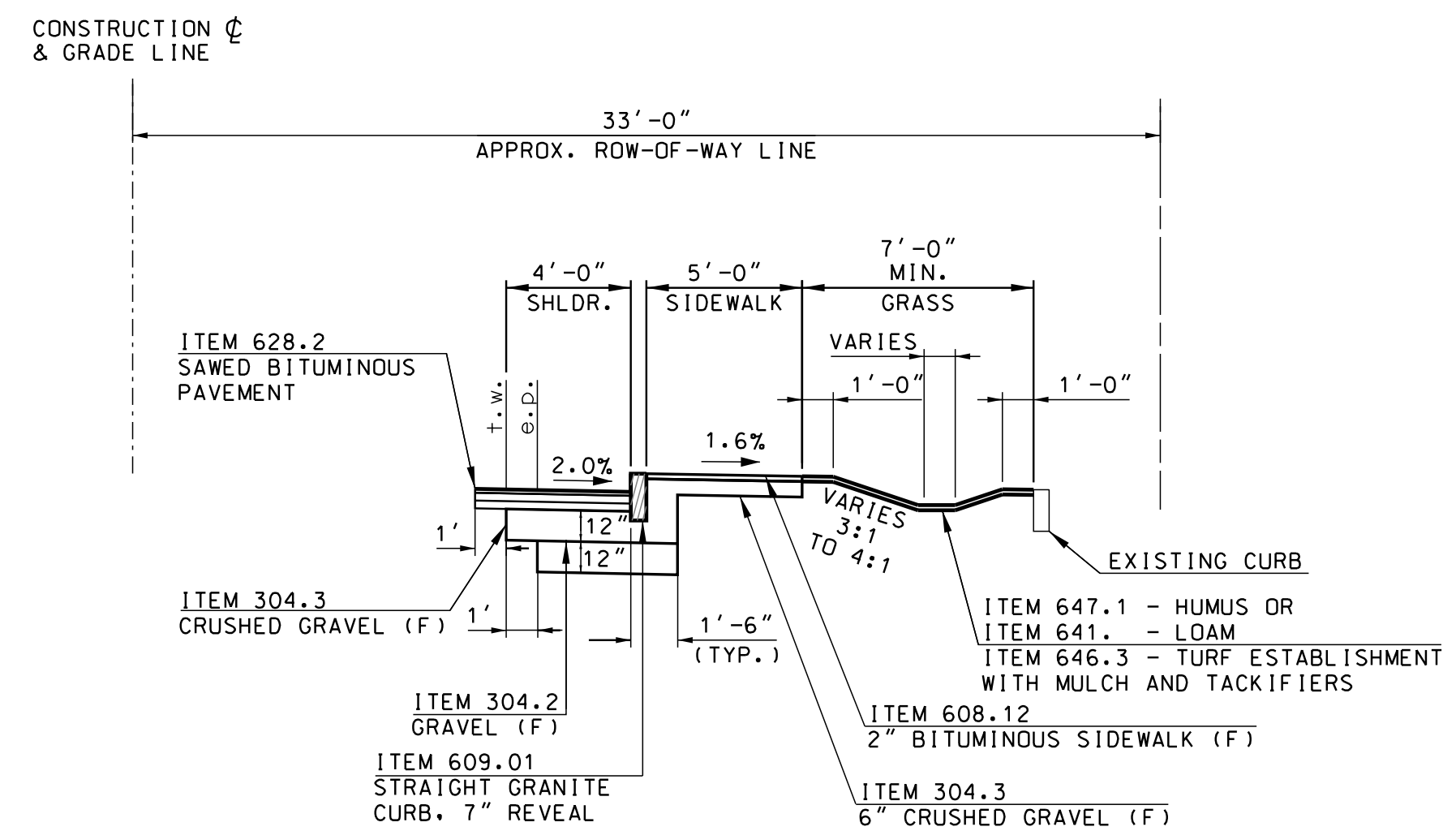
STA 106+30.00 RT TO STA 109+75.00 RT
 STA 110+48.00 RT TO STA 111+75.00 RT
 STA 128+64.00 RT TO STA 130+15.00 RT
 STA 131+05.00 RT TO STA 132+98.00 RT
 NOT TO SCALE



HIGH SIDE OF SUPERELEVATION

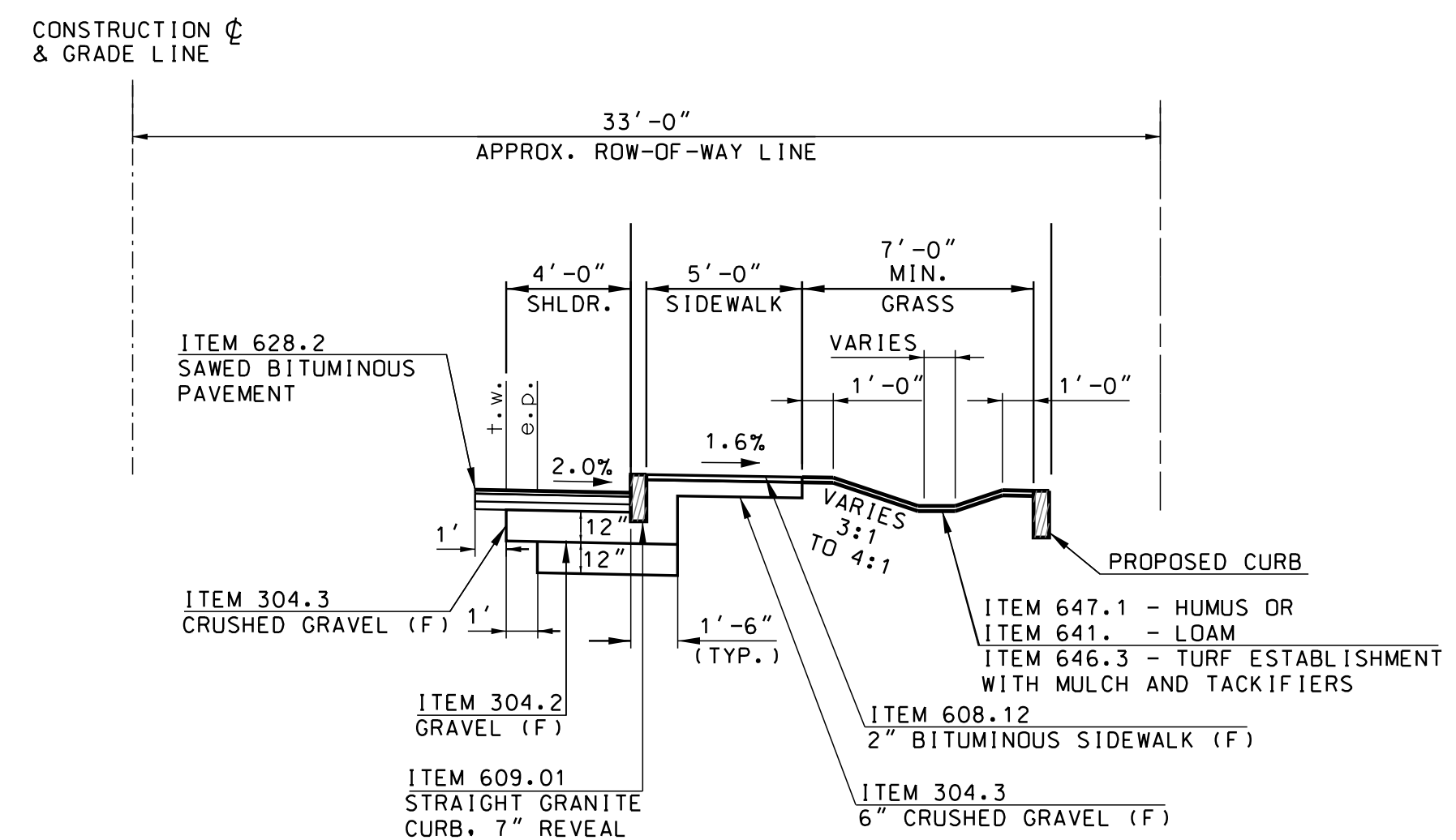
NOT TO SCALE

SUBBASE TOLERANCE: +/- 1 INCH (TOTAL THICKNESS)
 HOT BITUMINOUS PAVEMENT TOLERANCE +/- 1/4 INCH (TOTAL THICKNESS)



WEST MAIN STREET PROPOSED 5' SIDEWALK ISLAND WITH GRASS SWALE

STA 119+25.00 RT TO STA 120+08.00 RT
 STA 122+57.00 RT TO STA 126+22.00 RT
 NOT TO SCALE



WEST MAIN STREET PROPOSED 5' SIDEWALK ISLAND WITH GRASS SWALE

STA 109+93.00 RT TO STA 110+48.00 RT
 STA 119+25.00 RT TO STA 120+25.00 RT
 STA 136+00.00 RT TO STA 136+76.00 RT
 STA 137+00.00 RT TO STA 137+25.00 RT
 NOT TO SCALE

D&K NO. 324277



TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
TYPICAL SECTION 02			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368+typ	41368	6	112

SDR PROCESSED	DATE	DATE	DATE	DATE	DATE
	NEW DESIGN	BMB	3/28/2023	3/28/2023	
	SHEET CHECKED	CMB			
	ENGINEER	BRIAN M. BRESLEND NO. 15117			
	AS BUILT DETAILS				

REVISIONS AFTER PROPOSAL

DESCRIPTION

STATION

STATION

DATE

NUMBER

GENERAL

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF NEW HAMPSHIRE, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2016, AND ITS LATEST REVISION AND/OR UPDATES, AND THE SPECIAL PROVISIONS FOR THIS PROJECT.
2. THE CONTRACTOR MUST PARTICIPATE IN AN ON-SITE PRE-CONSTRUCTION CONFERENCE.
3. ALL DIMENSIONS ARE HORIZONTAL AND VERTICAL, AND ARE GIVEN AT 68 DEGREES FARENHEIT.
4. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS AND REQUIREMENTS.
5. THE CONTRACTOR SHALL REVIEW AND UNDERSTAND ALL APPLICABLE ENVIRONMENTAL PERMITS AND ENSURE THAT ALL CONSTRUCTION CONDITIONS ARE MET.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION SAFETY, AND MEANS AND METHODS TO PERFORM AND COMPLETE THE WORK.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO PRIVATE OR PUBLIC PROPERTY OUTSIDE THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS CAUSED BY THE CONTRACTOR, AT THE SOLE COST TO THE CONTRACTOR.
8. THE CONTRACTOR SHALL SUBMIT LITERATURE (MANUFACTURER'S LITERATURE, CUT SHEETS, APPLICATION PROCEDURES, ETC.) FOR ALL PRODUCTS PROPOSED FOR USE ON THE PROJECT, FOR APPROVAL BY THE ENGINEER.
9. CLEARING AND GRUBBING SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT.
10. THE CONTRACTOR SHALL COORDINATE WITH US FISH AND WILDLIFE ON NORTHERN LONG EARED BAT AVOIDANCE AND MINIMIZATION MEASURES. THIS COST SHALL BE INCIDENTAL TO THE CONTRACT.
11. ALL COMMERCIAL AND RESIDENTIAL PROPERTY OWNERS SHALL BE GIVEN 48 HOURS ADVANCE NOTIFICATION WHEN CONSTRUCTION IS TAKING PLACE ADJACENT TO PROPERTIES. THE COST ASSOCIATED WITH THIS TASK SHALL BE INCIDENTAL TO THE CONTRACT.

SURVEY

1. TOPOGRAPHICAL SURVEY WAS COMPLETED BY DUBOIS & KING, INC. IN FEBURARY AND MARCH OF 2018. LICENSED SURVEYOR IN RESPONSIBLE CHARGE: RANDALL P. OTIS NO. 01062.
2. PROJECT IS IN THE NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM ON THE FOLLOWING DATUMS:
HORIZONTAL: NORTH AMERICAN DATUM OF 1983 (NAD 83)
VERTICAL: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

RIGHT-OF-WAY

1. RIGHT-OF-WAY AND PROPERTY LINE BOUDARIES WAS ESTABLISHED BASED UPON:
-DEED RESEARCH
-TOWN OF HILLSBOROUGH GIS INFORMATION
-MONUMENTS FOUND DURING TOPOGRAPHICAL SURVEY

UTILITIES

1. UTILITIES SHOWN IN THE PLANS ARE BASED UPON:
- AS-BUILT PLANS
- TOPOGRAPHICAL SURVEY INFORMATION CONDUCTED BY DUBOIS & KING, INC.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND DETERMINING ALL UTILITIES (ABOVE AND BELOW GROUND) WITHIN THE PROJECT LIMITS, AND TO TAKE NECESSARY PRECAUTIONS TO PROTECT UTILITIES DURING CONSTRUCTION. CONTACT DIG-SAFE AT 1-888-DIG-SAFE (WWW.DIGSAFE.COM).

PERMITS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY ADDITIONAL PERMITS NECESSARY IF CONTRACTOR CHOOSES TO WORK OUTSIDE THE PERMITTED LIMITS.

MOBILIZATION AREAS

1. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL LAY OUT LIMITS OF ALL EASEMENTS AND TOWN'S RIGHT-OF-WAY WITHIN THE PROJECT LIMITS.
2. THE CONTRACTOR SHALL BE LIMITED TO MOBILIZATION WITHIN THE TOWN'S RIGHT-OF-WAY AND EASEMENT LIMITS. ADDITIONAL MOBILIZATION AREAS REQUIRED BY THE CONTRACTOR SHALL BE COORDINATED WITH THE AFFECTED PROPERTY OWNERS AND SHALL BE AT NO COST TO THE TOWN.

SIGNS

1. EDGES OF RELOCATED SIGNS SHALL NOT BE INSTALLED WITHIN 2 FEET FROM FACE OF CURB OR ROAD
2. RELOCATED SIGN POSTS SHOULD BE LOCATED OUTSIDE OF THE GUARDRAIL DEFLECTON ZONE.
3. EDGES OF RELOCATED SIGNS SHALL NOT BE INSTALLED WITHIN 2 FEET OF SIDEWALK.

PAVEMENT MARKINGS

1. ALL SYMBOLS, WORDS, TRANSVERSE MARKINGS (STOP BARS, CROSSWALK LINES, AND RAILROAD SYMBOLS), LANE LINES AND ALL OTHER MARKINGS NOTED WITH A (T) SHALL BE THERMOPLASTIC.
2. THE CONTRACTOR SHALL CONTACT JULIE MATHEWS - NHDOT BUREAU OF TRAFFIC AT 603-271-8011 AT LEAST TWO WEEKS PRIOR TO SCHEDULING PAVEMENT MARKING PLACEMENT.
3. PAVEMENT MARKINGS SHALL EXTEND BEYOND PROJECT LIMITS TO OVERLAP EXISTING MARKINGS THAT GET DISTURBED BY CONSTRUCTION.

LIST OF STANDARD PLANS USED

NO.	DESCRIPTION	DATE
CR-1	GRANITE CURB DETAILS	06-16-2010
CR-2	CURB DETAILS	06-16-2010
DR-1	GRATE AND FRAME DETAILS	06-16-2010 (REVISED 08-14-2015)
DR-2	GRATE AND FRAME, M.H.COVER AND PAVEMENT DEPRESSION DETAILS	06-16-2010 (REVISED 08-14-2015)
DR-4	DI-DB, UNDERDRAIN FLUSHING BASIN AND POLYETHYLENE LINER DETAILS	06-16-2010 (REVISED 08-14-2015)
DR-5	PRECAST REINFORCED CONCRETE C.B., D.I., AND M.H	06-16-2010 (REVISED 07-13-2001)
EW-1	EARTHWORK - MUCK EXCAVATION	07-13-2001 (REVISED 06-16-2010)
HW-1	HEADWALL DETAILS	07-13-2001 (REVISED 06-16-2010)
HW-2	HEADWALL DETAILS (45° WINGS)	07-13-2001 (REVISED 06-16-2010)
MB-1	MAILBOX DETAILS	07-13-2001 (REVISED 02-25-2016)
PL-1	PLANTING DETAILS	07-13-2001 (REVISED 02-26-2010)
PL-2	PLANTING DETAILS	07-13-2001 (REVISED 06-16-2010)
SL-1	PULL BOXES AND CONDUIT TRENCH DETAIL	07-13-2001 (REVISED 06-16-2010)
SL-2	CONCRETE FOUNDATIONS AND LIGHT POLE BASES, TYPE B	07-13-2001 (REVISED 06-16-2010)
PM-15	PEDESTRIAN CROSSINGS	02-22-2021
TC-1	AMENDMENTS TO PART VI MUTCD (2009)	08-03-2004 (REVISED 05-17-2019)
TC-2	UNIFORMED OFFICERS AND FLAGGER GUIDELINES	06-16-2017
TC-4	TWO WAY TRAFFIC LANE SHIFT	05-17-2019

TOWN OF HILLSBOROUGH, NEW HAMPSHIRE

PROJECT NOTES

D&K NO. 324277



DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368project notes	41368	7	112

SDR PROCESSED	DATE	DATE	DATE	DATE	DATE	DATE	DATE
	NEW DESIGN	DID	3/28/2023	3/28/2023	3/28/2023		
SHEET CHECKED	BMB	ENGINEER	BRIAN M. BRESLEND	NO. 15117			
	AS BUILT DETAILS						

REVISIONS AFTER PROPOSAL

STATION

STATION

DATE

NUMBER

DESCRIPTION

CURBING				
ITEM NO.	MARK NUMBER	RADIUS	609.01 STRAIGHT GRANITE CURB	609.02 CURVED GRANITE CURB
UNIT			LF	LF
LOCATION : WEST MAIN STREET				
	G-1A	10		15.55
	G-1B		53.15	
	G-1C		26.34	
	G-1D	10		16.01
	G-2A	10		15.45
	G-2B		42.07	
	G-2C	10		15.90
	G-2D		2.32	
	G-3A		3.53	
	G-3B	10		15.52
	G-3C		6.60	
	G-3D	10		15.86
	G-4A	5.5		8.58
	G-4B		15.91	
	G-4C	5.5		8.69
	G-5A		2.20	
	G-5B	10		15.51
	G-5C		24.83	
	G-5D	10		15.69
	G-5E		3.76	
	G-6A		3.76	
	G-6B	10		15.69
	G-6C		30.25	
	G-6D	5		7.86
	G-6E		8.76	
	G-7A		7.00	
	G-7B	5		7.85
	G-7C		45.40	
	G-7D	5		7.85
	G-7E		7.00	
	G-8A		6.94	
	G-8B	5		7.92
	G-8C		115.50	
	G-8D	5		7.85
	G-8E		7.00	
	G-9A		6.00	
	G-9B	5		7.85
	G-9C		45.31	
	G-9D	5		7.85
	G-9E		6.00	
	G-10A		41.53	
	G-10B		12.85	
	G-11A	5.5		8.64
	G-11B		182.26	
	G-11C	884		93.69
	G-11D		12.14	
	G-11E		4.90	
	G-11F		12.14	
	G-11G		11.68	
	G-11H	10		11.11

CURBING				
ITEM NO.	MARK NUMBER	RADIUS	609.01 STRAIGHT GRANITE CURB	609.02 CURVED GRANITE CURB
UNIT			LF	LF
LOCATION : WEST MAIN STREET				
	G-12A	10		11.09
	G-12B	884		47.75
	G-12C			17.45
	G-12D			17.67
	G-13A	515		31.27
	G-13B	10		18.24
	G-14A	6.75		21.21
	G-14B			41.25
	G-14C			28.44
	G-14D			8.29
	G-14E			2.52
	G-14F			8.16
	G-14G	6.75		20.28
	G-15A			15.45
	G-15B			3.36
	G-15C	3		9.42
	G-15D			3.36
	G-15E			18.81
	G-15F			37.09
	G-15G			10.30
	G-16A	10		11.02
	G-16B	2816		33.29
	G-16C			11.93
	G-16D			2.50
	G-16E			13.13
	G-16F	2816		48.63
	G-16G	15		23.52
	G-17A			9.85
	G-17B	3.5		7.24
	G-17C	15		16.00
	G-17D			98.49
	G-17E	15		16.09
	G-17F	3.5		7.24
	G-18A	3.5		7.24
	G-18B	15		16.08
	G-18C			7.00
	G-18D			10.79
	G-18E			4.00
	G-18F			10.20
	G-18G			80.55
	G-18H	2416		49.46
	G-18I	15		19.60
	G-18J	3.5		6.48
	G-18K			3.11
	G-19A	15		23.47
	G-19B	2416		26.48
	G-19C	10		15.67

CURBING				
ITEM NO.	MARK NUMBER	RADIUS	609.01 STRAIGHT GRANITE CURB	609.02 CURVED GRANITE CURB
UNIT			LF	LF
LOCATION : WEST MAIN STREET				
	G-20A			2.02
	G-20B	10		15.67
	G-20C	2416		50.17
	G-20D	10		15.67
	G-20E			2.02
	G-21A			2.02
	G-21B	10		15.67
	G-21C	2416		47.12
	G-21D	10		16.36
	G-21E			2.34
	G-22A			4.86
	G-22B	10		14.37
	G-22C	2416		107.84
	G-22D	10		11.02
	G-23A			4.02
	G-23B	10		7.58
	G-23C			86.47
	G-23D	1116		101.76
	G-23E	10		11.00
	G-23F			7.93
	G-24A	10		11.00
	G-24B	1116		73.83
	G-24C	10		15.62
	G-25A	10		15.62
	G-25B	1116		83.96
	G-25C	5.5		8.62
	G-26A	5.5		8.64
	G-26B			66.59
	G-26C	5.5		8.64
	G-27			77.59
	G-28			25.38
	G-29A	5.5		8.64
	G-29B			168.64
	G-29C	10		11.04
	G-30A	10		11.04
	G-30B			38.87
	G-30C	5.5		8.64

CURBING				
ITEM NO.	MARK NUMBER	RADIUS	609.01 STRAIGHT GRANITE CURB	609.02 CURVED GRANITE CURB
UNIT			LF	LF
LOCATION : WEST MAIN STREET				
	G-31A	5.5		8.64
	G-31B			20.45
	G-31C	5.5		8.64
	G-32A	5.5		8.62
	G-32B	866		151.61
	G-32C	10		10.99
	G-33A	10		11.10
	G-33B	866		43.44
	G-33C	10		10.99
	G-34A	10		10.99
	G-34B	866		48.15
	G-34C	5.5		8.62
	G-35A	5.5		8.60
	G-35B	866		103.58
	G-35C			11.64
	G-36A	10		13.23
	G-36B			67.47
	G-36C	10		11.04
	G-37A	10		11.04
	G-37B			7.24
	G-37C	10		11.21
	SUBTOTAL		2948.00	832.0
	ROUNDING		2.00	8.00
	TOTAL		2950.00	840.00

D&K NO. 324277



TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
<i>SUMMARY OF QUANTITIES</i>			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368sum	41368	8	112

SDR PROCESSED	DATE	3/28/2023
NEW DESIGN	DATE	3/28/2023
SHEET CHECKED	DATE	3/28/2023
ENGINEER	NO.	15117
AS BUILT DETAILS	DATE	

REVISIONS AFTER PROPOSAL

STATION

STATION

DATE

NUMBER

DATE

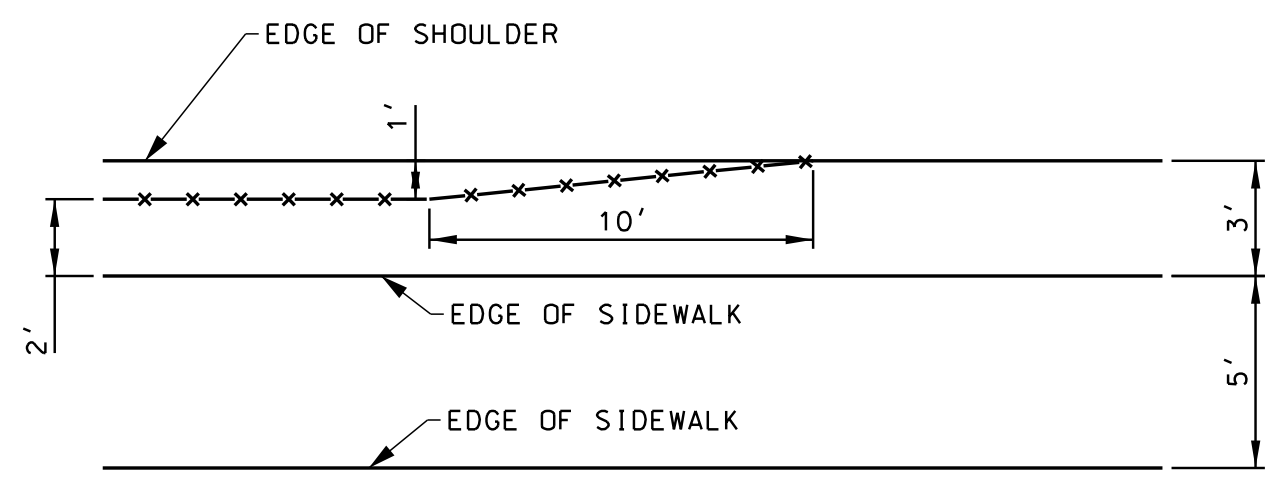
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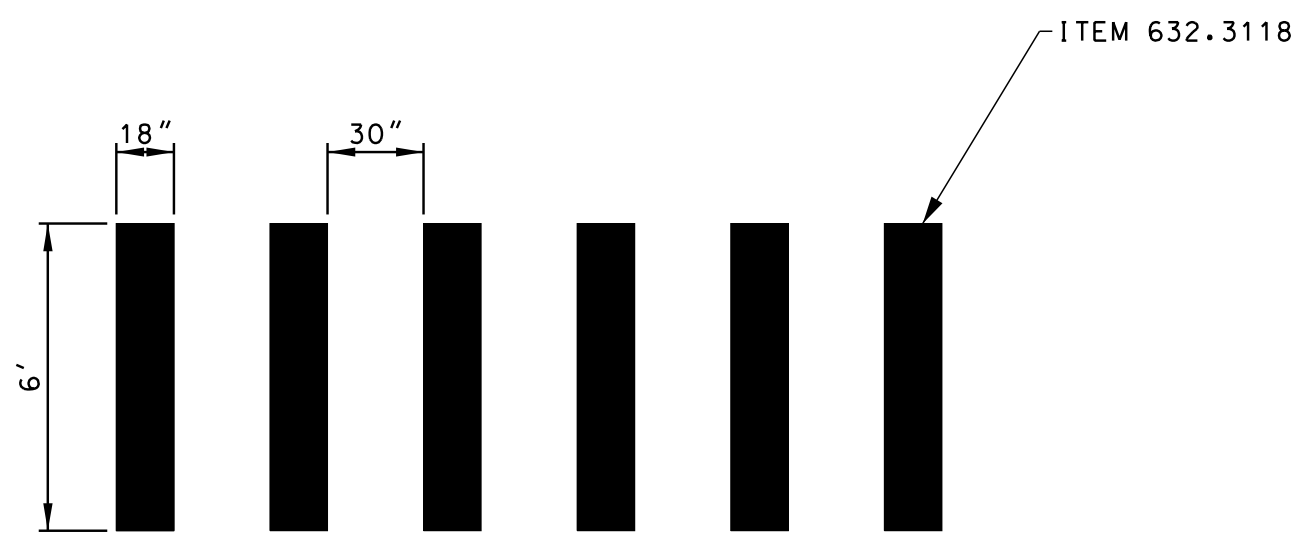
DATE

DATE

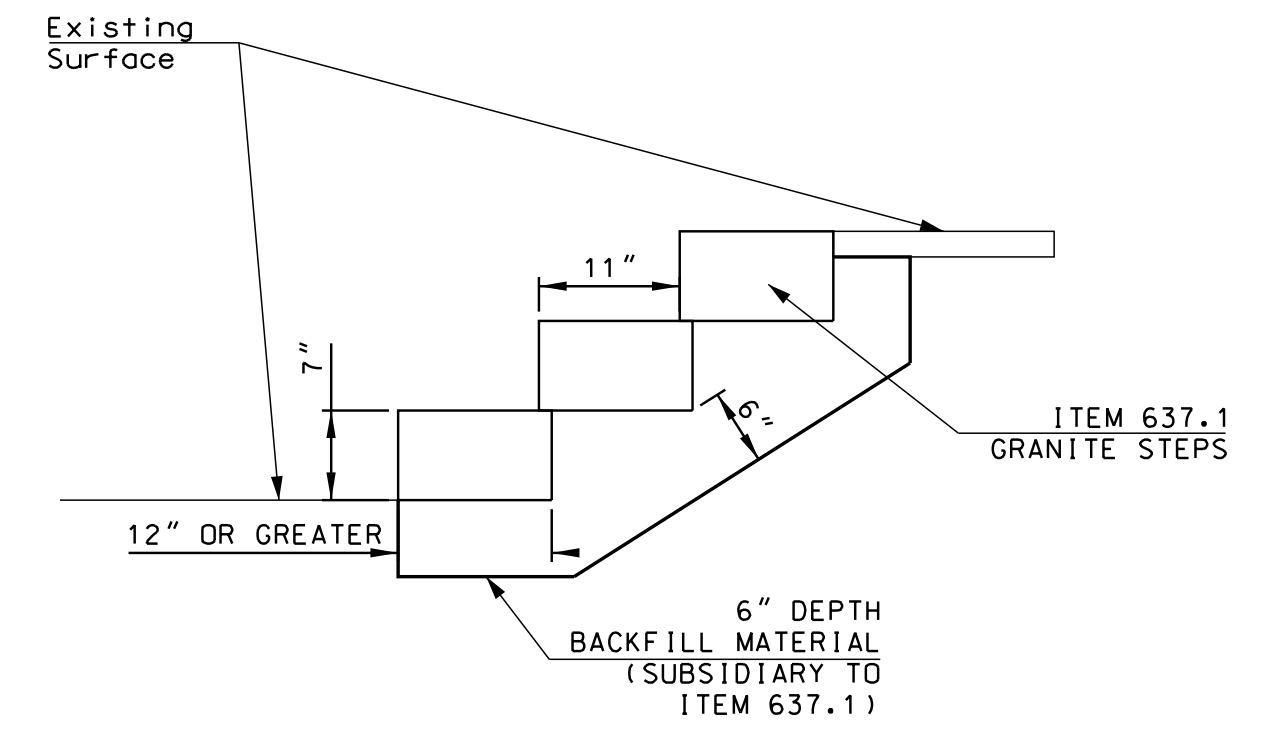
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SPLIT RAIL FENCE DETAIL
NOT TO SCALE

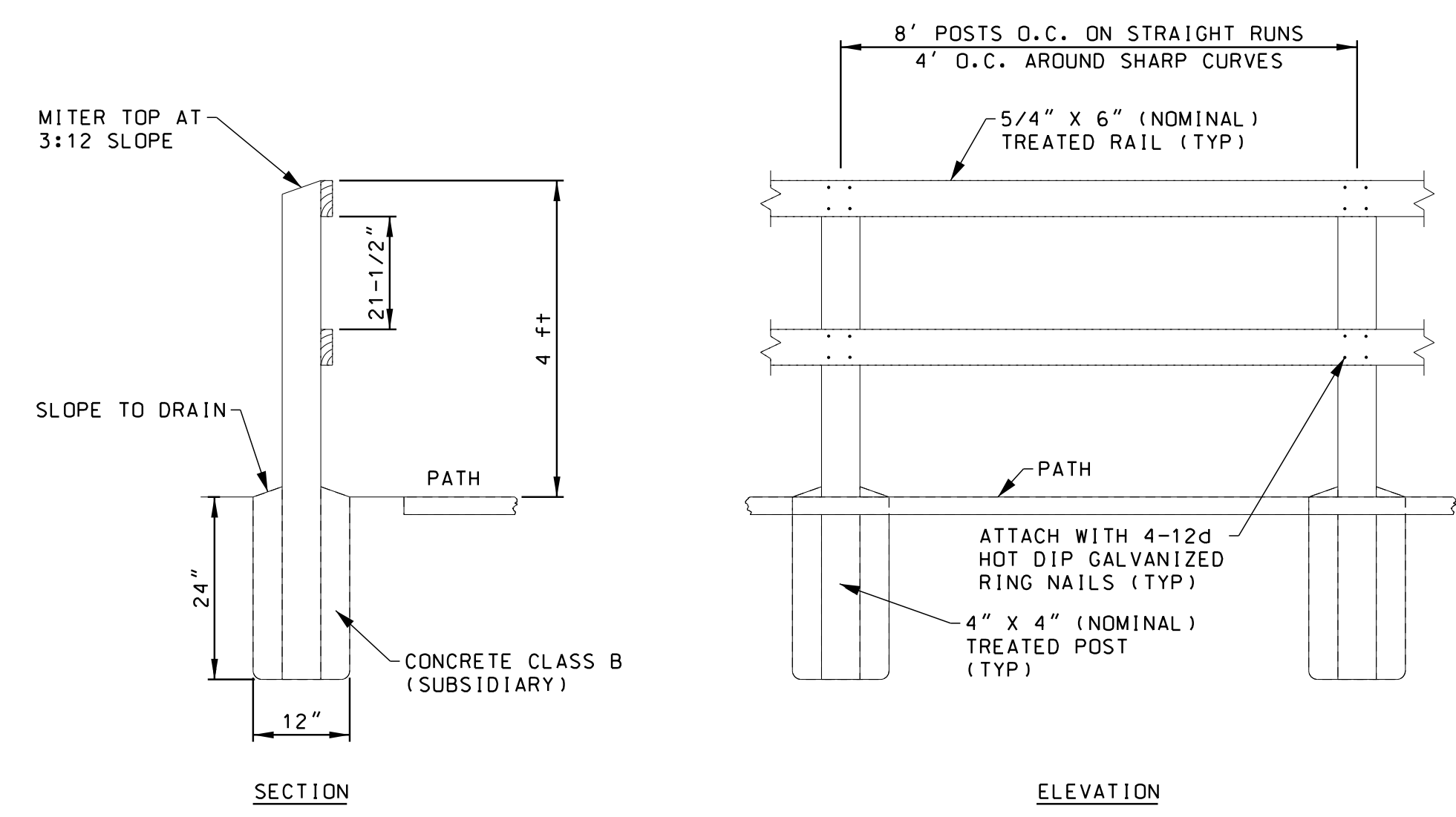


PIANO KEY CROSSWALK DETAIL
NOT TO SCALE



NOTE: EXCAVATION TO INSTALL GRANITE STEPS SHALL BE SUBSIDIARY TO ITEM 637.1

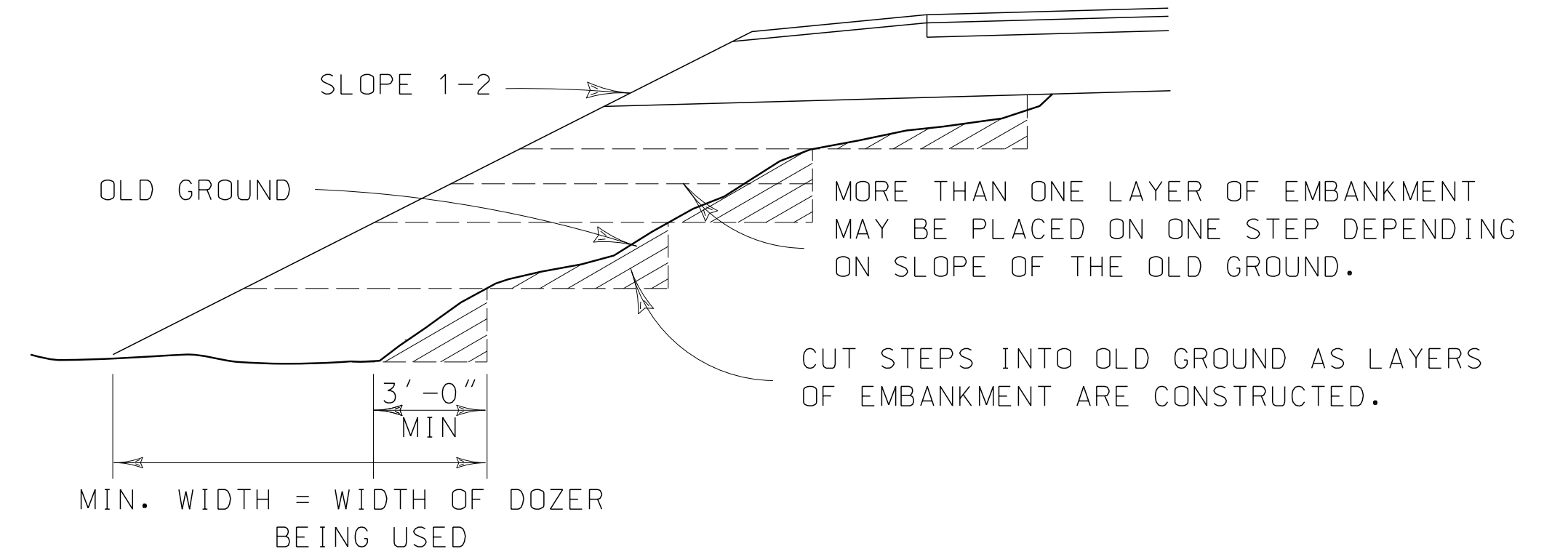
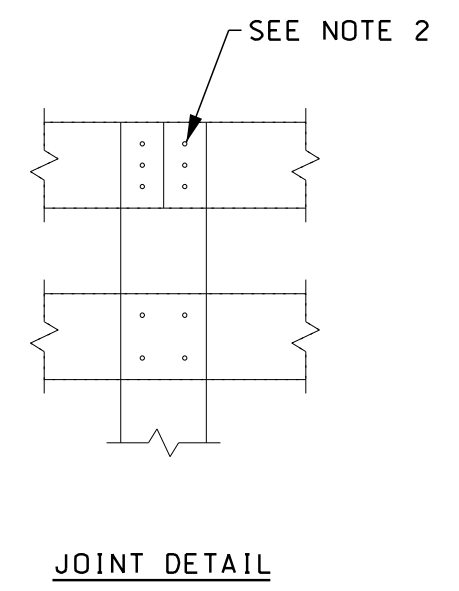
PROPOSED GRANITE STEPS
NOT TO SCALE



SPLIT RAIL FENCE DETAIL
NOT TO SCALE

NOTES:

1. ALL RAIL JOINTS SHALL BE CENTERED ON THE POSTS.
2. ALL JOINTS SHALL BE ATTACHED WITH 3-12d NAILS AND TWO ADJACENT RAILS SHALL NOT END ON THE SAME POST.
3. RAILS SHALL BE FLUSH TO THE POSTS AT THE END POSTS.

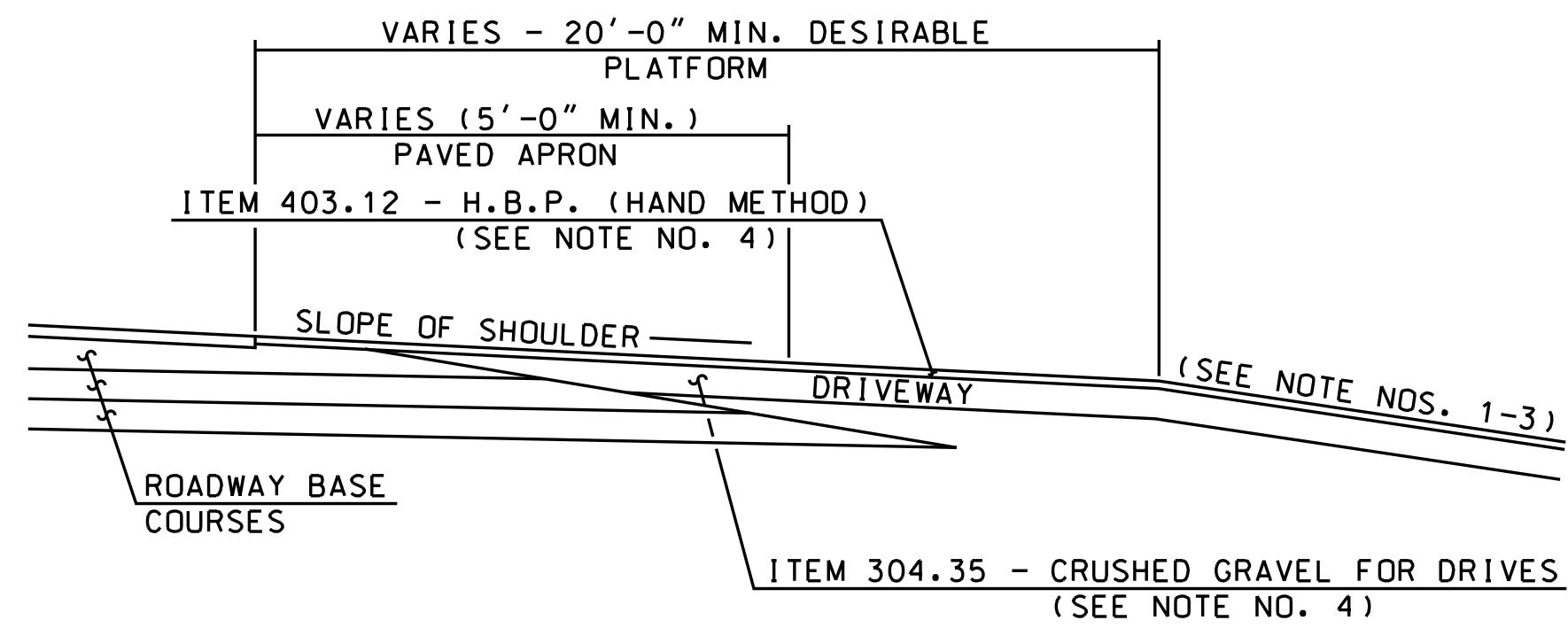


METHOD FOR CONSTRUCTING AN EMBANKMENT ON EARTH SLOPE

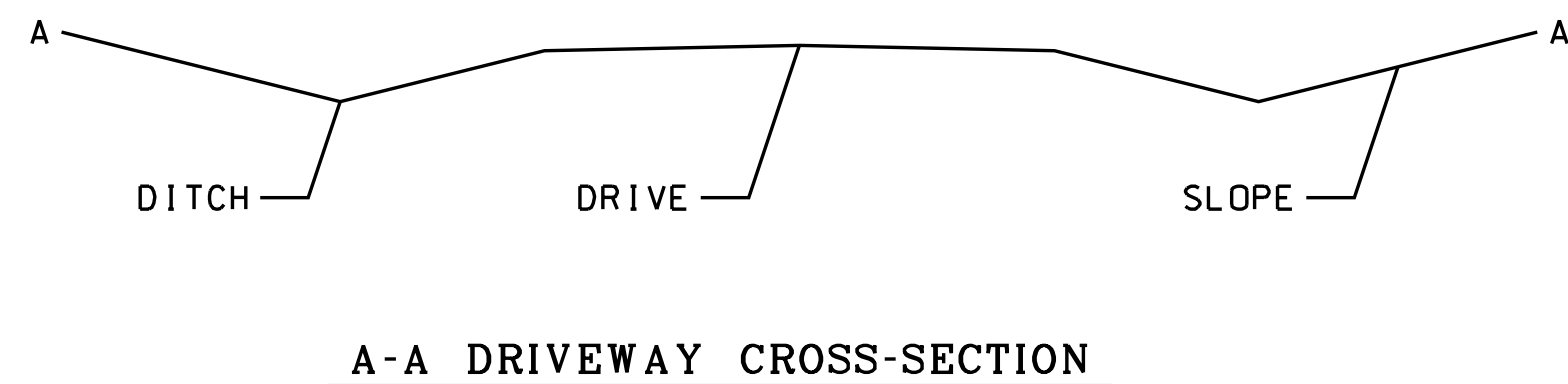
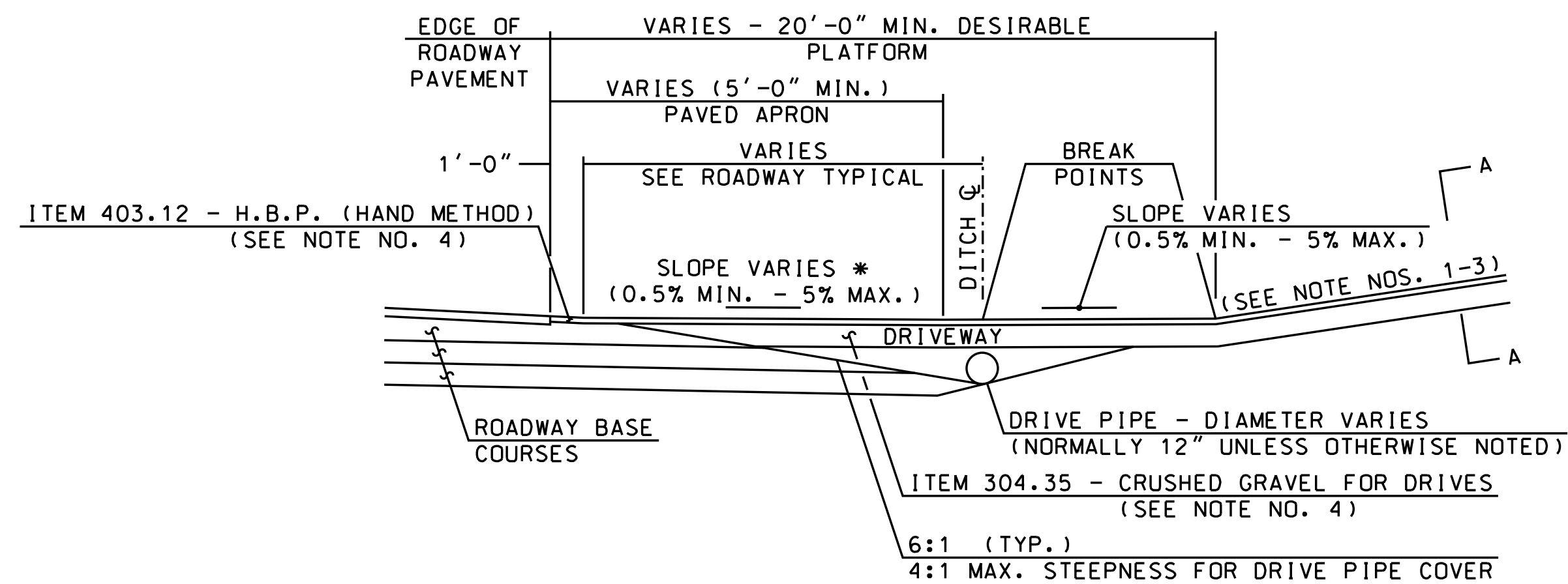
TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
D&K NO. 324277			
ROAD DETAILS			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368roaddetails	41368	12	112



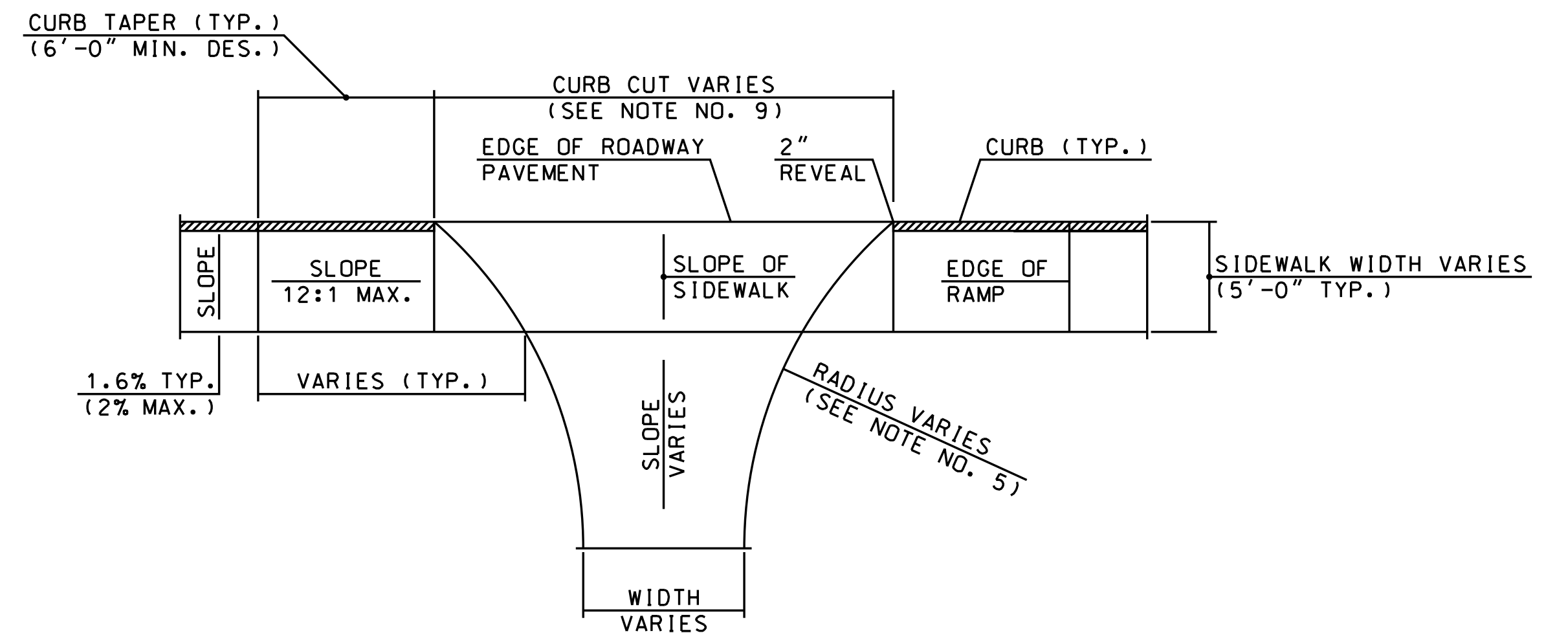
NOTE: REFER TO PAVEMENT LAYOUT PLANS AND CROSS-SECTIONS FOR DRIVEWAY LENGTHS, WIDTHS, RADII, CURB CUTS, GRADES AND PAVEMENT & BASE COURSE DEPTHS



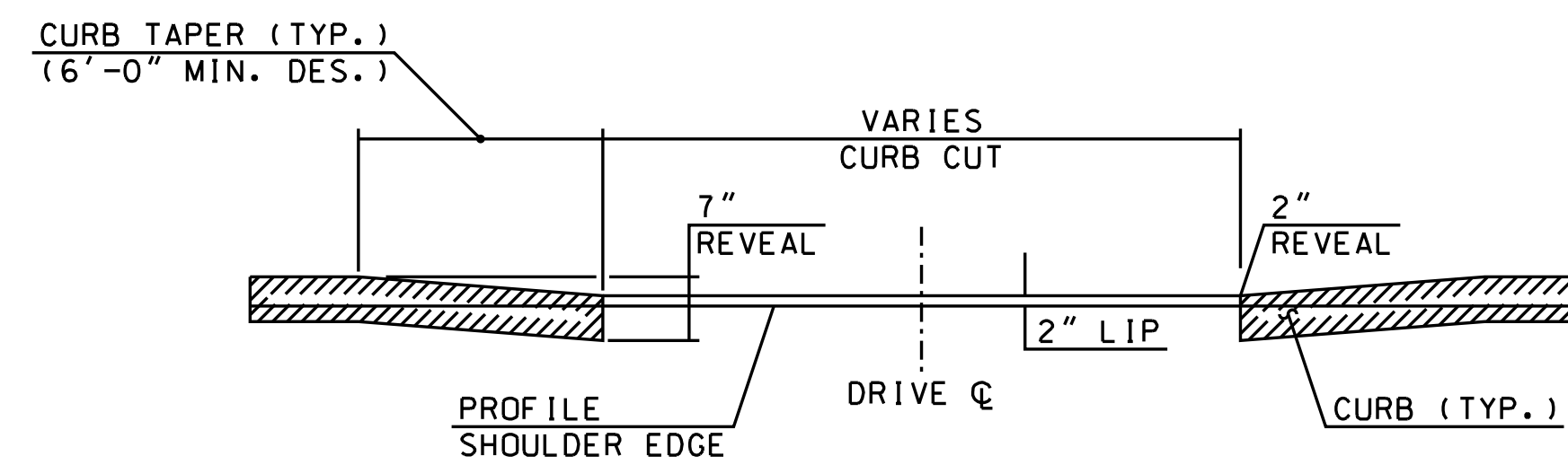
TYPICAL UNCURBED DRIVE IN FILL SECTION



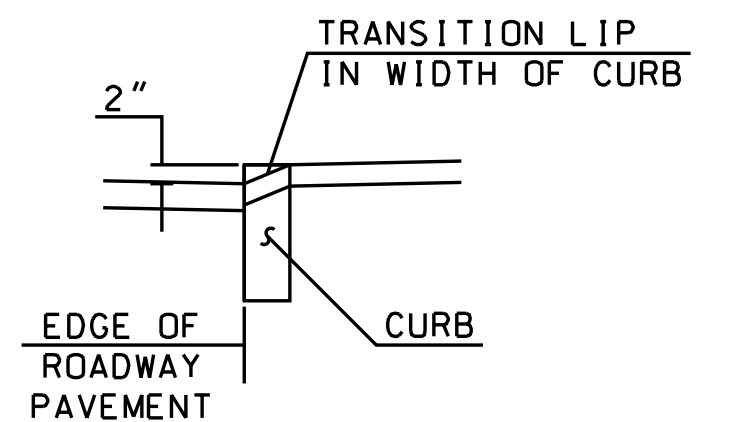
TYPICAL UNCURBED DRIVE IN CUT SECTION



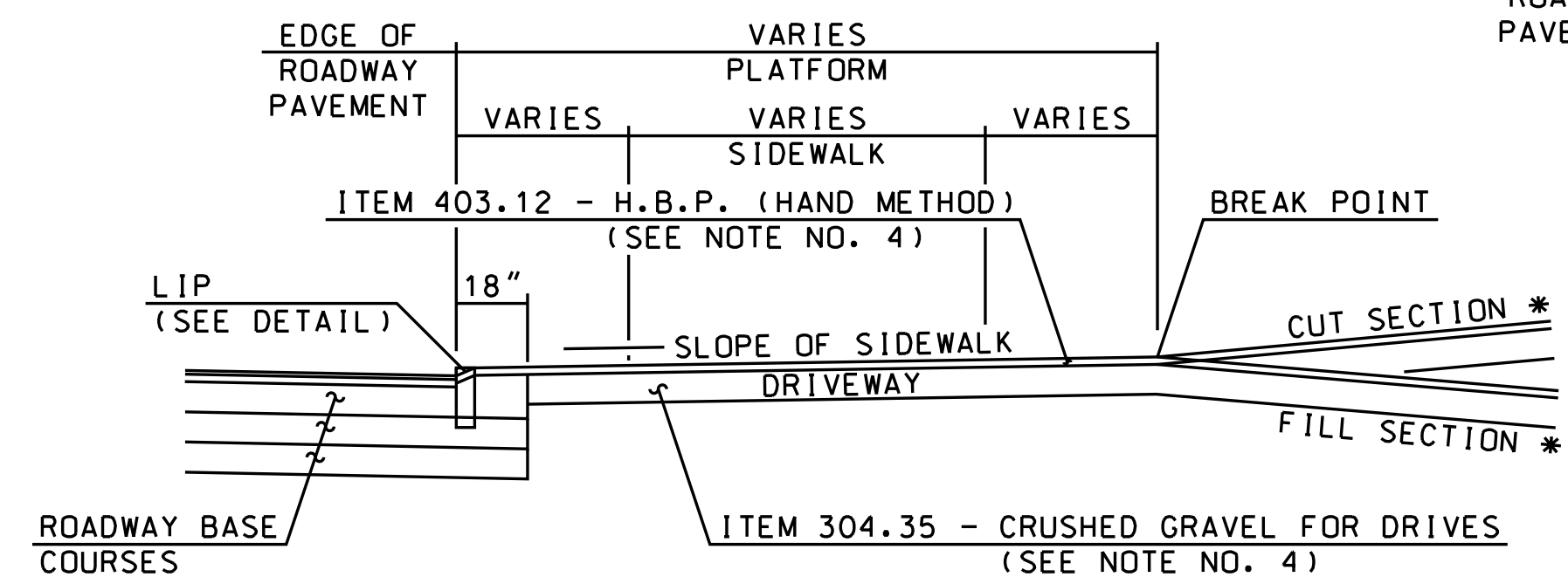
PLAN VIEW WITH SIDEWALK RAMP



END VIEW



LIP DETAIL



TYPICAL URBAN CURBED DRIVE IN CUT/FILL SECTION

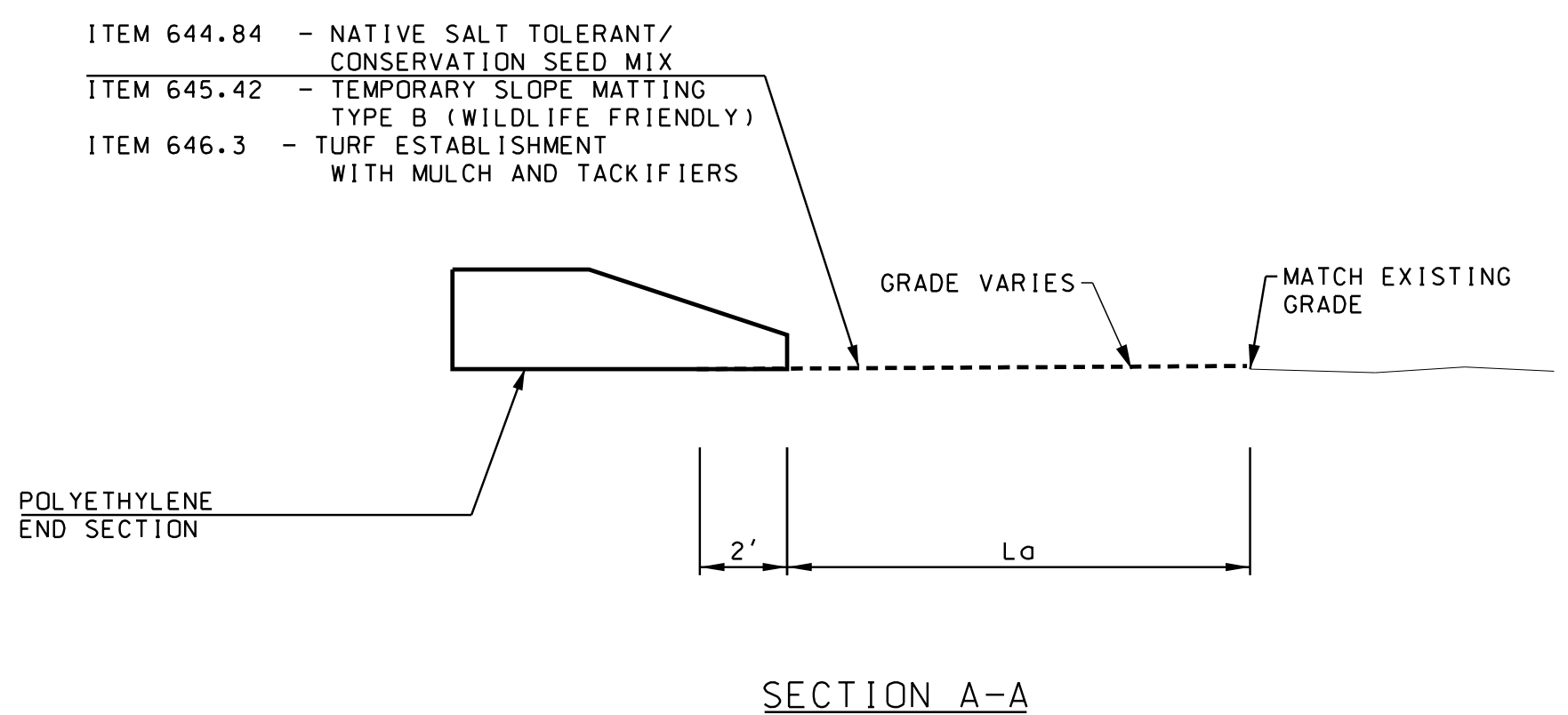
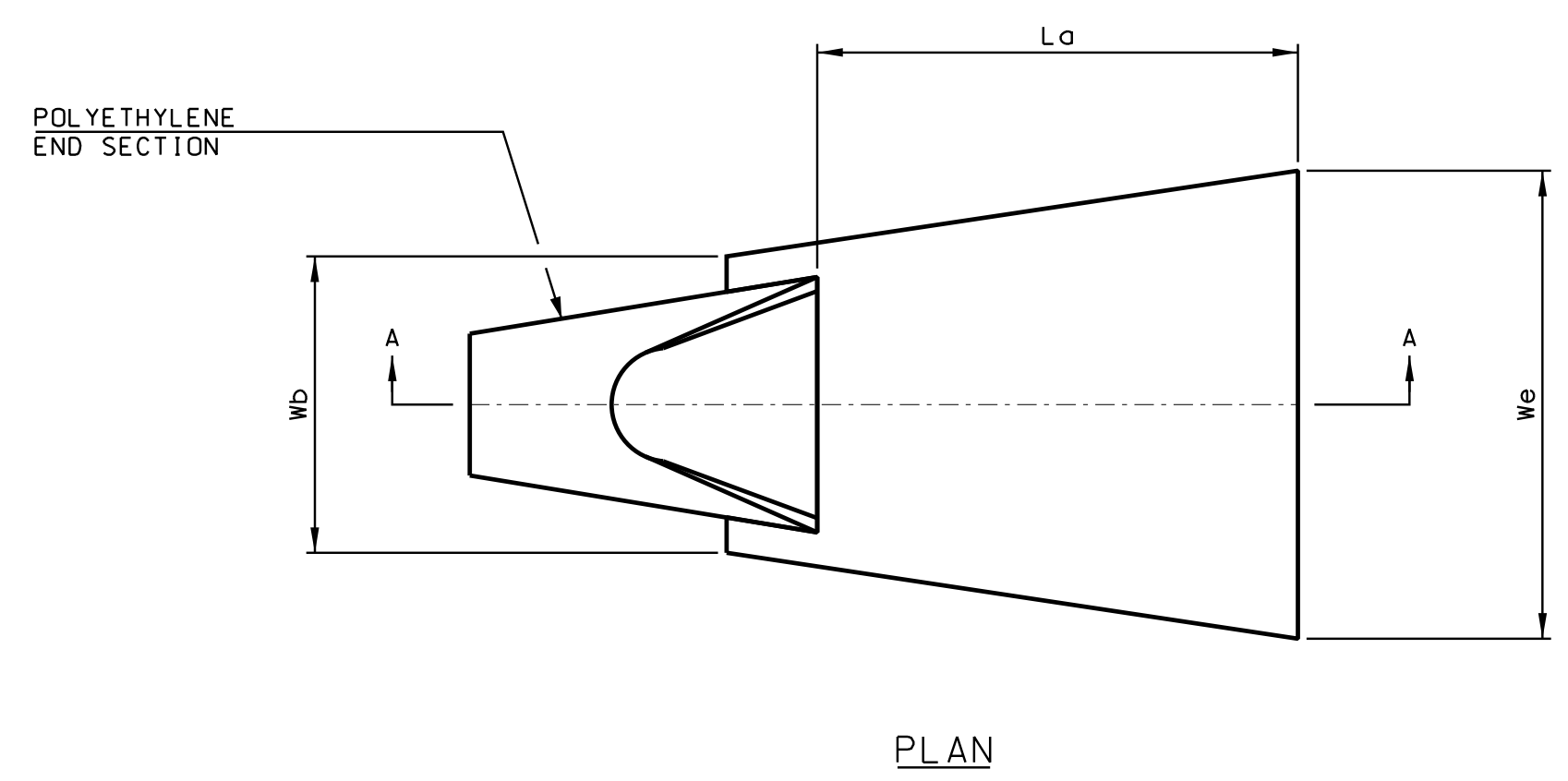
GENERAL NOTES

- GRADES OF MAJOR ENTRANCES BEYOND THE PLATFORM SHOULD NOT EXCEED 8%.
- GRADES OF OTHER DRIVES BEYOND THE PLATFORM SHOULD NOT EXCEED 15%, UNLESS OTHERWISE NOTED ON THE PLANS.
- THE ALGEBRAIC DIFFERENCE BETWEEN TWO ADJACENT GRADES SHOULD NOT EXCEED 10%.
- PAVEMENT AND BASE COURSE DEPTHS ARE:
 - TYPICALLY 8" CRUSHED GRAVEL WITH 3" HBP (HAND METHOD, PLACED IN 2 COURSES) FOR RESIDENTIAL DRIVES ADJACENT TO ROADWAYS WITH CONVENTIONAL CRUSHED GRAVEL, GRAVEL, AND SAND STRUCTURAL BOX. IF THE DRIVE IS ADJACENT TO A ROADWAY WITH A CRUSHED STONE STRUCTURAL BOX, 6" OF CRUSHED STONE FINE GRADATION MAY BE SUBSTITUTED FOR THE 8" OF CRUSHED GRAVEL NOTED ABOVE.
 - TYPICALLY 12" CRUSHED GRAVEL WITH 3" HBP (HAND METHOD, PLACED IN 2 COURSES) FOR COMMERCIAL DRIVES WITH FREQUENT HEAVY TRUCK TRAFFIC THAT ARE ADJACENT TO ROADWAYS WITH CONVENTIONAL CRUSHED GRAVEL, GRAVEL, AND SAND STRUCTURAL BOX. IF THE DRIVE IS ADJACENT TO A ROADWAY WITH A CRUSHED STONE STRUCTURAL BOX, 9" OF CRUSHED STONE FINE GRADATION MAY BE SUBSTITUTED FOR THE 12" OF CRUSHED GRAVEL NOTED ABOVE.
- FOR DESIGN CRITERIA AND OTHER ADDITIONAL INFORMATION, REFER TO THE NHDOT DRIVEWAY MANUAL.
- DITCHES ARE RECOMMENDED FOR UNCURBED DRIVEWAYS IN CUT SLOPES.
- USE SLOPED END SECTIONS ON DRIVE PIPES FOR UNCURBED DRIVEWAYS.
- CURBING CAN BE FLARED TO FIT DRIVE RADII IF APPROPRIATE OR ENDED AS DETAILED ABOVE.
- CURB CUTS FOR RESIDENTIAL DRIVES WITH ANGLES OF ENTRY OF 75°-90° ARE TYPICALLY 25'-0".

TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
DRIVEWAY DETAILS			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
driveway	41368	13	112

SDR PROCESSED	DATE	DATE	DATE	DATE
NEW DESIGN	OID	3/28/2023	3/28/2023	
SHEET CHECKED	BMB			
ENGINEER	BRIAN M. BRESLEND	NO. 15117		
AS BUILT DETAILS				

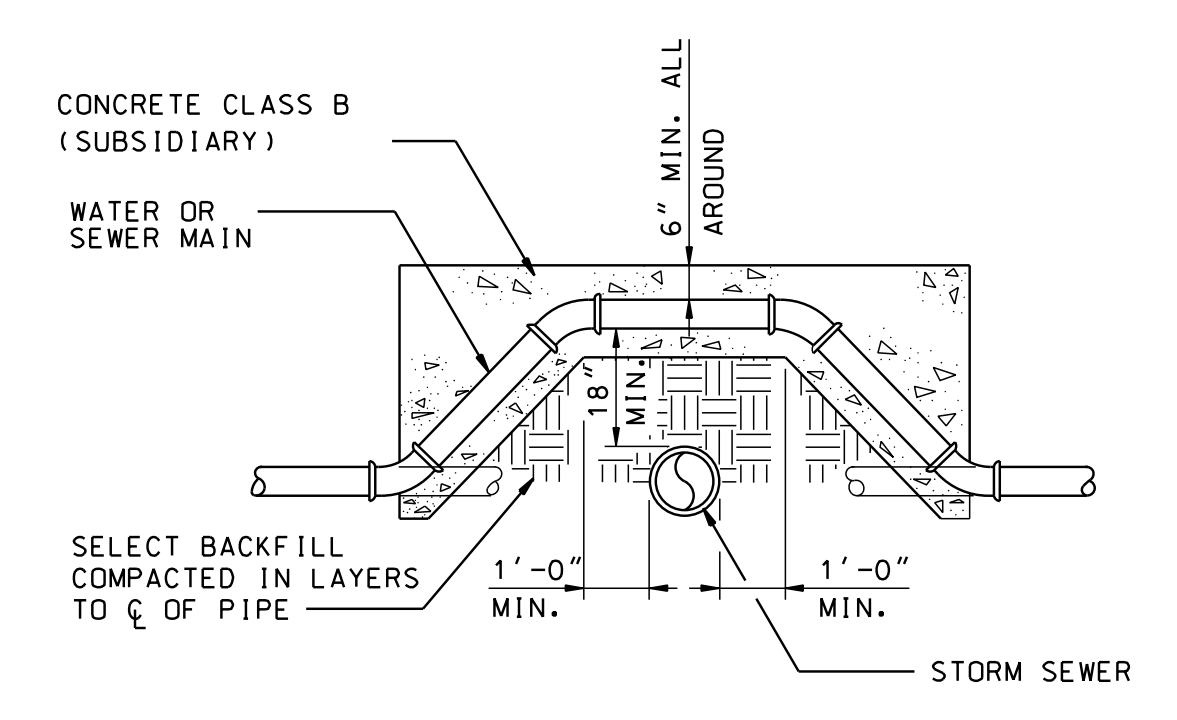
REVISIONS AFTER PROPOSAL	DESCRIPTION
STATION	
STATION	
DATE	
NUMBER	



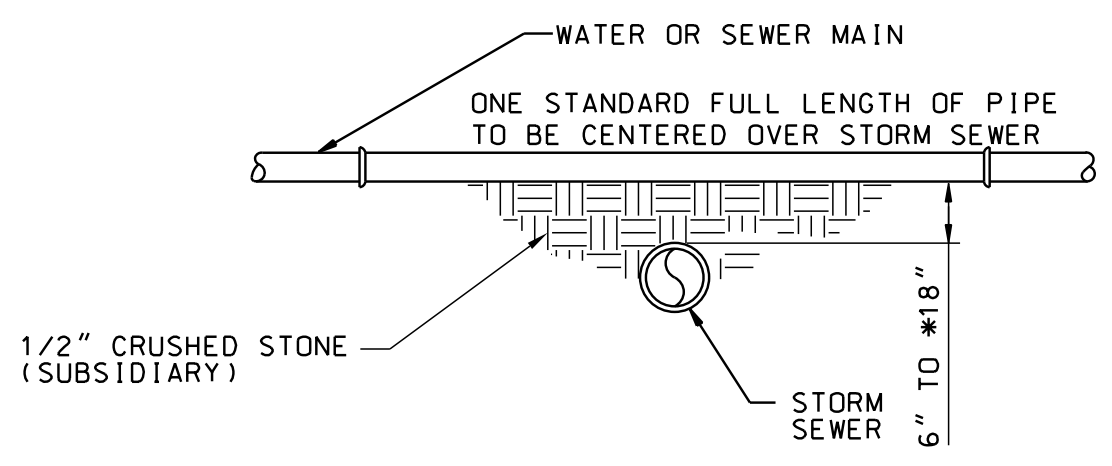
PIPE OUTLET TO FLAT AREA WITH NO CHANNEL
NOT TO SCALE

DRAINAGE NOTE	LOCATION	La (ft)	Wb (ft)	We (ft)
⬡	OUTLET	-	-	-
⬡	OUTLET	-	-	-

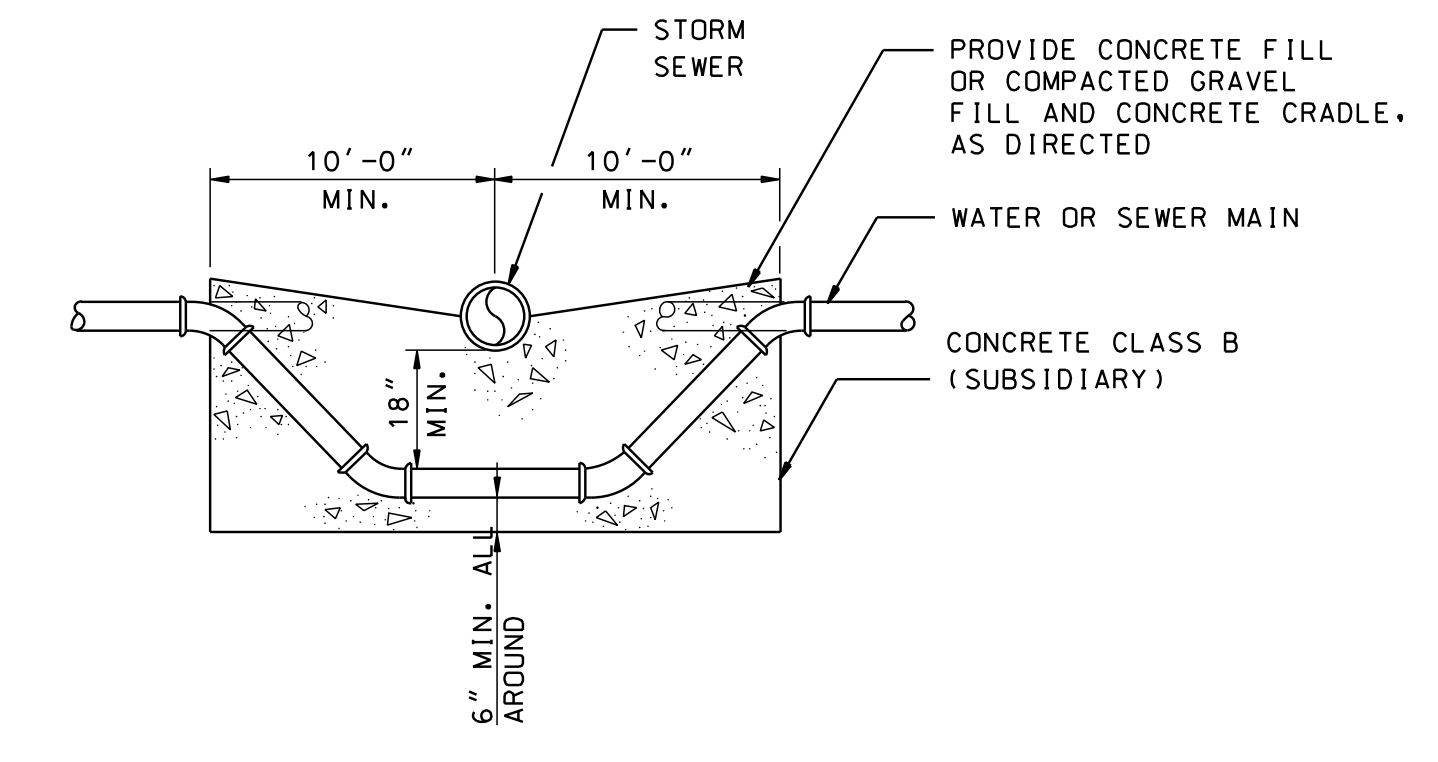
DETAIL NO. 1 WATER/SEWER MAIN RELOCATION - ABOVE STORM SEWER
(PREFERRED METHOD)
NOT TO SCALE



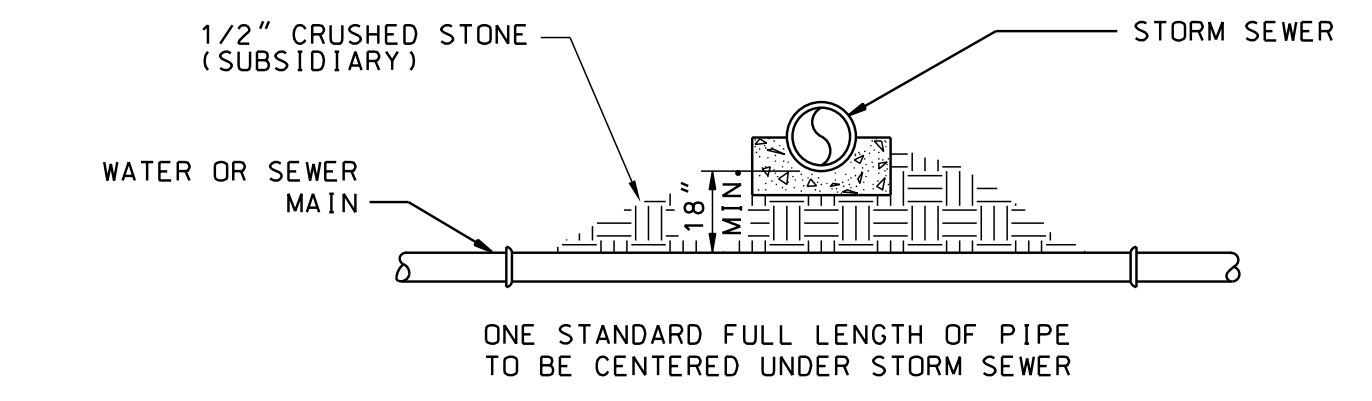
DETAIL NO. 2 WATER/SEWER MAIN LESS THAN 18" ABOVE STORM SEWER
NOT TO SCALE



DETAIL NO. 3 WATER/SEWER MAIN RELOCATION - BELOW STORM SEWER*
NOT TO SCALE
* ONLY IF PIPE CAN NOT GO OVER STORM SEWER LINE (NOT A RECOMMENDED METHOD)



DETAIL NO. 4 WATER/SEWER MAIN BELOW STORM SEWER*
NOT TO SCALE
* NOT A RECOMMENDED METHOD



- NOTES:**
- DETAILS NO.1 & NO.3 ALLOWABLE WATER/SEWER PIPE DEFLECTIONS MAY BE USED TO ACCOMPLISH THE RELOCATIONS IN LIEU OF ELBOWS AND FITTINGS.
 - DETAILS NO.2, NO.3 & NO.4 THE STORM SEWER PIPE SHALL BE CONSTRUCTED OR RECONSTRUCTED OF PVC C900 PRESSURE PIPE WITH MECHANICAL JOINTS AND PRESSURE TESTED FOR AT LEAST 20' EACH SIDE OF WATER MAIN.
 - DETAILS NO.1, NO.2, NO.3 & NO.4 WATER/SEWER MAIN TO BE RECONSTRUCTED SHALL BE PUSH-ON OR M.J. D.I. PIPE FOR A DISTANCE OF 10 FEET EACH SIDE OF THE CENTERLINE OF THE STORM SEWER.
 - DETAILS NO.3 & NO.4 UNDER NO CIRCUMSTANCES SHALL THE STORM SEWER BE LESS THAN 18" ABOVE THE WATER/SEWER MAIN.

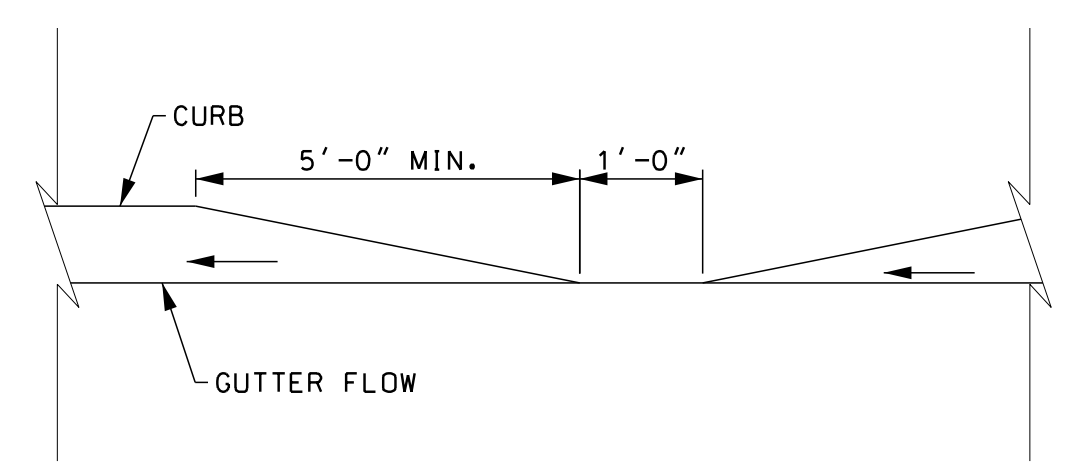
D&K NO. 324277



TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
DRAINAGE DETAILS 2 OF 3			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
drainage details	41368	15	112

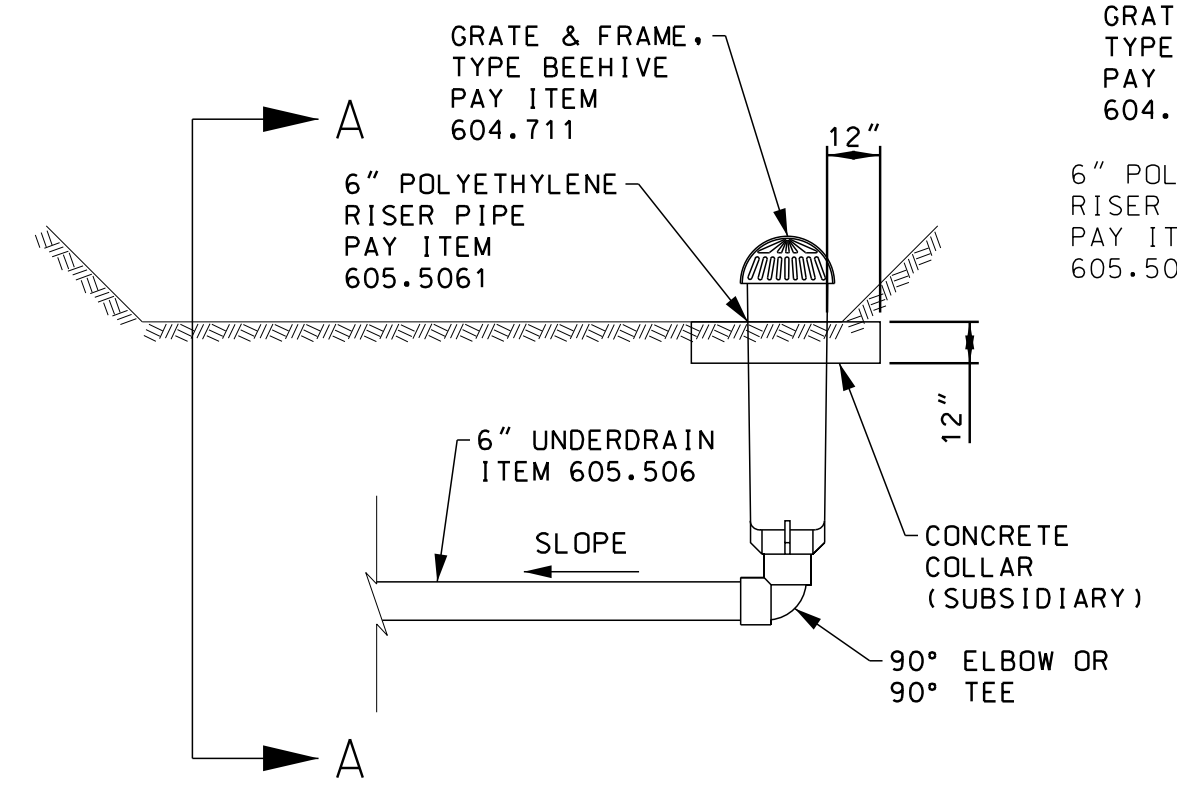
SDR PROCESSED	DATE	3/28/2023
NEW DESIGN	DATE	3/28/2023
SHEET CHECKED	DATE	3/28/2023
ENGINEER	NO.	15117
AS BUILT DETAILS	NO.	

REVISIONS AFTER PROPOSAL	DESCRIPTION
STATION	
STATION	
DATE	
NUMBER	



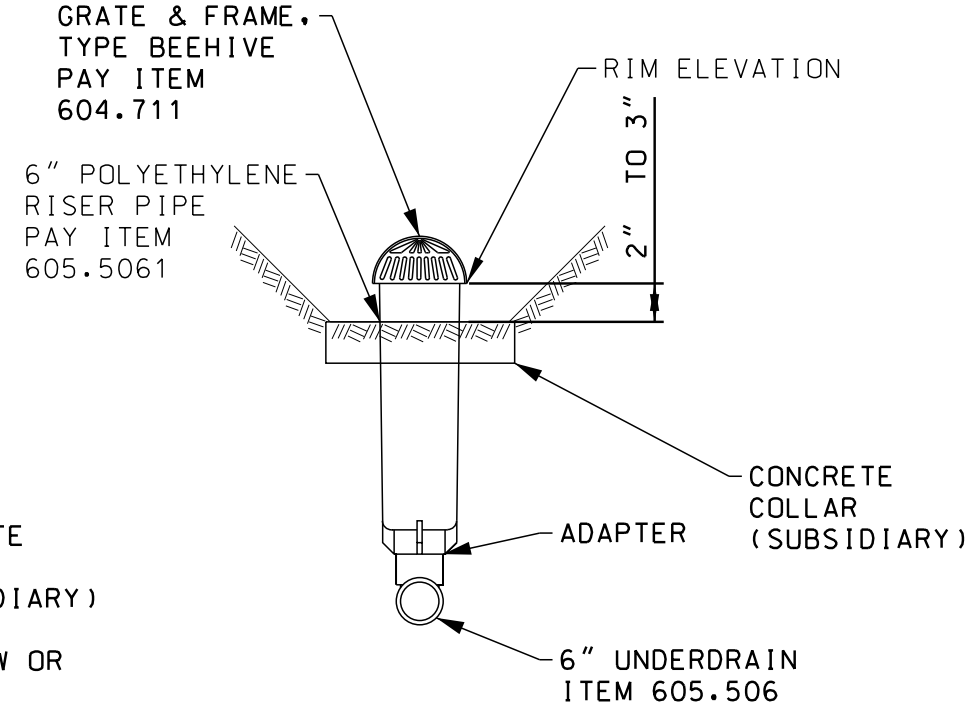
STORMWATER CURB TIP DOWN DETAIL

NOT TO SCALE
 STA. 106+60
 STA. 107+25
 STA. 108+08
 STA. 108+65
 STA. 111+50
 STA. 119+39 (OUTSIDE CURB)
 STA. 119+95 (OUTSIDE CURB)
 STA. 129+58



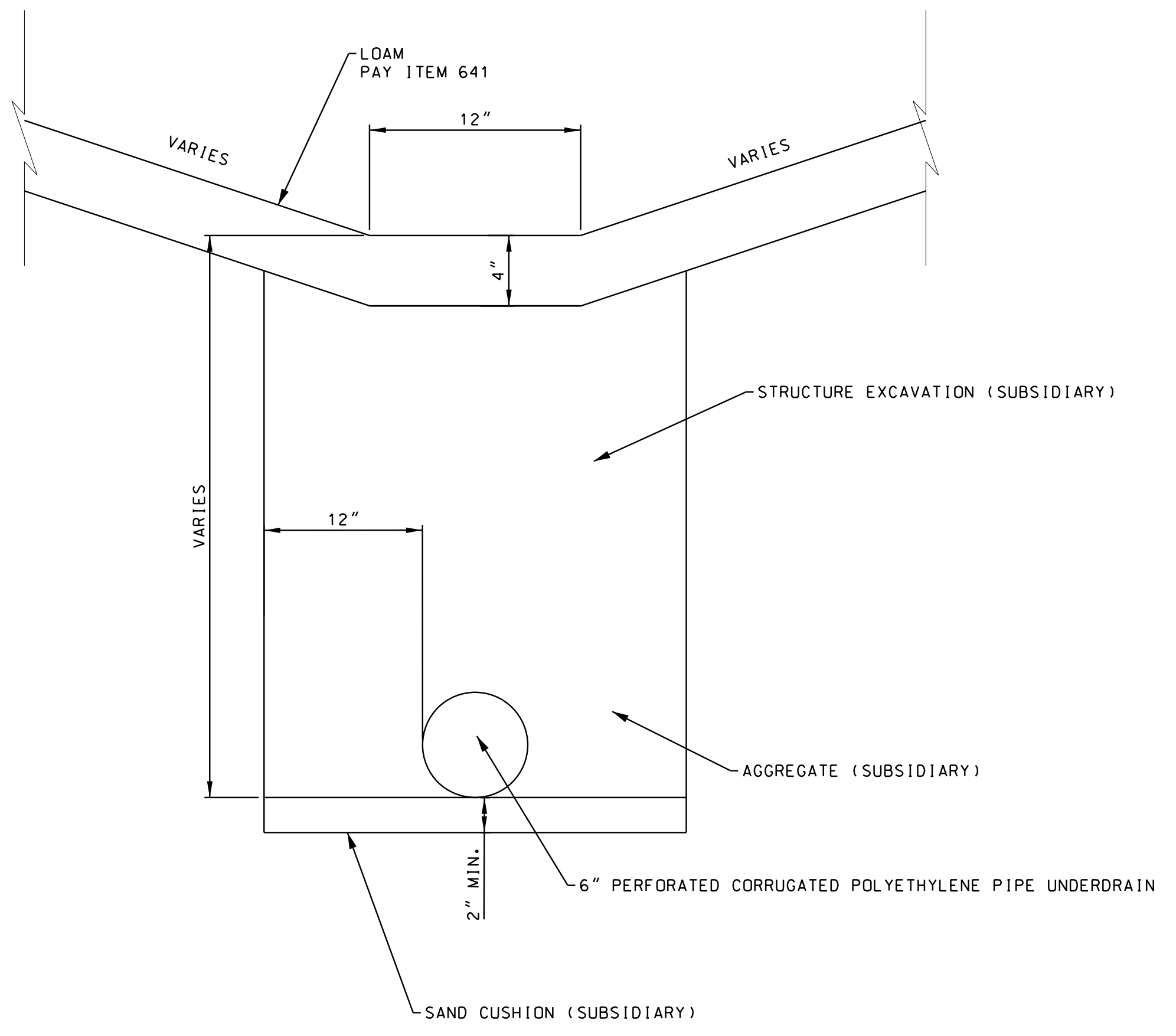
BEEHIVE RISER DETAIL

NOT TO SCALE



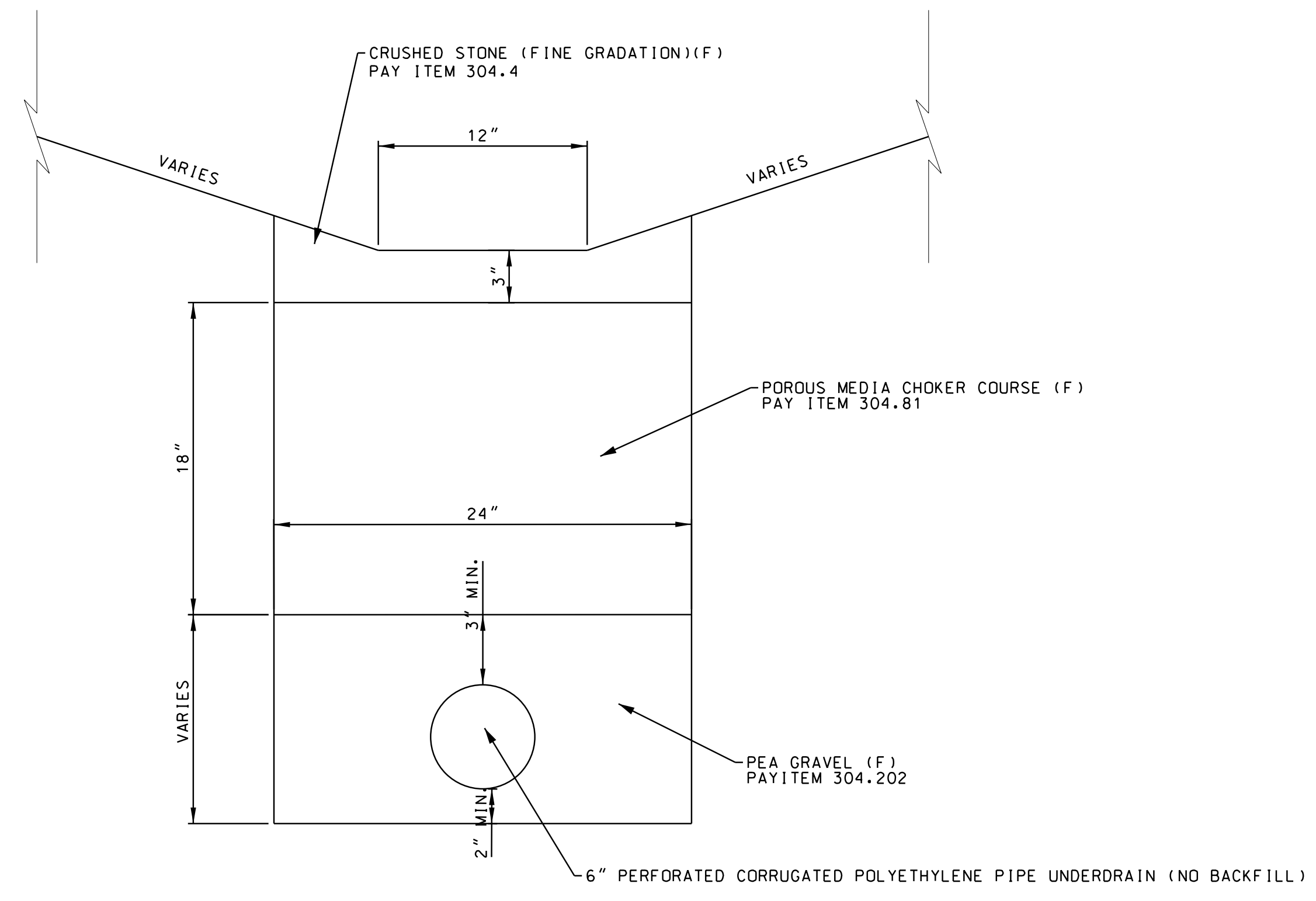
SECTION A-A

NOT TO SCALE



TYPICAL UNDERDRAIN SECTION

NOT TO SCALE



SAND FILTER MATERIAL SECTION

NOT TO SCALE

D&K NO. 324277



TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
DRAINAGE DETAILS 3 OF 3			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
drainage details	41368	16	112

GENERAL NOTES:

- THESE SHEETS ARE IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA), AND THE REQUIREMENTS OF THE 2011 PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT OF WAY (PROWAG).
- NOT ALL FACILITIES CAN BE CONSTRUCTED TO MEET THE DESIGN STANDARDS. FACILITIES THAT CANNOT BE CONSTRUCTED TO MEET THE DESIGN STANDARDS SHALL BE CONSTRUCTED TO MEET THE STANDARDS TO THE GREATEST EXTENT PRACTICABLE. NONSTANDARD FEATURES SHALL BE DOCUMENTED ON TECHNICAL INFEASIBILITY FORM AND SUBMITTED TO NHDOT ADA COORDINATOR FOR APPROVAL.
- TO CHECK FIELD LAYOUT ALL SLOPES AND GRADES SHALL BE MEASURED WITH A DIGITAL LEVEL USING AT LEAST TWO READINGS. WHERE THE READINGS VARY, THE MEASUREMENTS SHALL BE AVERAGED. GRADE (RUNNING SLOPE) SHALL BE MEASURED ALONG THE CENTERLINE AND OFFSET 1.00' TO 1.50' FROM THE CENTERLINE. CROSS SLOPES SHALL BE MEASURED PERPENDICULAR TO CENTERLINE AT 5.00' TO 10.00' INTERVALS.
- GRADES (RUNNING SLOPES) ARE MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL. CROSS SLOPES ARE MEASURED PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL.
- JOINTS BETWEEN SIDEWALKS, CURB RAMPS, TURNING SPACES AND ROADWAYS SHALL BE FLUSH AND FREE FROM ABRUPT VERTICAL CHANGES GREATER THAN 1/4". VERTICAL SURFACE DISCONTINUITIES BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 2:1. THE BEVEL SHALL BE APPLIED ACROSS THE ENTIRE JOINT. SEE DETAIL ON SHEET 9 OF 9.
- SIDEWALKS ARE CONNECTED TO ROADWAYS BY EITHER BLENDED TRANSITIONS OR CURB RAMPS. BLENDED TRANSITIONS ARE CONNECTIONS BETWEEN THE SIDEWALK LEVEL AND THE ROADWAY LEVEL THAT HAVE A MAXIMUM GRADE (RUNNING SLOPE) OF 5%, AND TRANSITIONS GREATER THAN 5% ARE CONSIDERED CURB RAMPS.
- CURB RAMPS AND BLENDED TRANSITIONS MAY REQUIRE THE INSTALLATION OF DETECTABLE WARNINGS. SEE ADDITIONAL "DETECTABLE WARNING DEVICE NOTES" ON THIS SHEET, AND DETAILS ON SHEET 6 OF 10 FOR DIMENSIONS, ORIENTATION AND INSTALLATION.
- VERTICAL ALIGNMENT SHALL BE GENERALLY PLANAR. GRADE BREAKS WITHIN THE PEDESTRIAN ACCESS ROUTE SHALL BE PERPENDICULAR TO THE DIRECTION OF TRAVEL AND SHALL NOT BE ROUNDED.
- THE CROSS SLOPE OF PEDESTRIAN ACCESS ROUTES (PAR) SHALL BE 2% MAXIMUM. THE FOLLOWING EXCEPTIONS ARE ALLOWED:
 - WHERE PEDESTRIAN CROSSINGS ARE PROVIDED AT INTERSECTIONS WITHOUT YIELD OR STOP CONTROL OR WHERE THERE IS ANY TRAFFIC SIGNAL, THE CROSS SLOPE OF A PEDESTRIAN ACCESS ROUTE CONTAINED WITHIN A CROSSING SHALL BE 5% MAXIMUM.
 - WHERE MIDBLOCK PEDESTRIAN CROSSINGS ARE PROVIDED, THE CROSS SLOPE OF A PEDESTRIAN ACCESS ROUTE CONTAINED WITHIN A MIDBLOCK CROSSING SHALL BE PERMITTED TO EQUAL THE STREET OR HIGHWAY GRADE.
- THE MINIMUM CLEAR WIDTH FOR PEDESTRIAN ACCESS ROUTES IS 4.00', EXCLUSIVE OF THE CURB. WHEN WALKWAY WIDTHS ARE LESS THAN 5.00', 5.00' x 5.00' PASSING SPACES, OR A FEATURE OF EQUAL OR GREATER DIMENSIONS (E.G., DRIVEWAYS) THAT MEET THE SLOPE CRITERIA, SHALL BE PROVIDED AT A MAXIMUM INTERVAL OF 200'. EXISTING DRIVEWAYS AND STREET CROSSING MAY ALSO SERVE AS PASSING SPACES.
- THE BUFFER ZONE IS A PHYSICAL DISTANCE SEPARATING THE PEDESTRIAN ACCESS ROUTE FROM THE VEHICLE TRAVELED WAY. THE BUFFER ZONE MAY BE PLANTED OR PAVED.
- WHEN CROSSING DRIVEWAYS, THE WORK SHALL BE IN CONFORMANCE WITH NHDOT DRIVEWAY DETAILS SHEET. THE CROSS SLOPE ACROSS DRIVEWAYS SHALL BE 2% MAXIMUM.
- FOR ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTONS, SEE DETAILS ON SHEET 8 OF 9.
- FOR RAMP COUNTER SLOPE REQUIREMENTS, SEE DETAILS ON SHEET 9 OF 9.

CURB RAMP NOTES:

- THE MINIMUM WIDTH OF A CURB RAMP SHALL BE 4.00'.
- THE FULL WIDTH OF THE RAMP OR LANDING SHALL BE CONTAINED WITHIN THE PAVEMENT MARKINGS AT MARKED CROSSWALKS.
- CURB RAMPS ARE NOT REQUIRED IN LOCATIONS WHERE THERE IS NO ACCESSIBLE PEDESTRIAN ACCESS ROUTE. UNLESS IT IS SERVING AS A LANDING FOR A PEDESTRIAN SIGNAL.
- THE GRADE (RUNNING SLOPE) OF A CURB RAMP SHALL BE A MAXIMUM OF 8.3%.
- WHERE EXISTING CONDITIONS DO NOT ALLOW THE CONSTRUCTION OF A CURB RAMP WITH A GRADE (RUNNING SLOPE) OF 8.3% OR LESS, THE RAMP LENGTH SHALL NOT BE REQUIRED TO EXCEED 15.00'.
- THE CROSS SLOPE OF THE CURB RAMP SHALL BE AS FLAT AS POSSIBLE AND STILL PROVIDE POSITIVE DRAINAGE. THE CROSS SLOPE OF A CURB RAMP 2% MAXIMUM. SEE NOTE 9 FOR EXCEPTIONS. WHERE THE EXISTING ROADWAY GRADE EXCEEDS 2%, THE CURB RAMP MAY BE WARPED ACCORDING TO THE DETAIL ON SHEET 9 OF 9 TO TIE INTO THE ROADWAY GRADE.
- RAMP SIDE TREATMENT OPTIONS ARE DETAILED ON SHEET 7 OF 9 FOR USE WITHIN THE BUFFER ZONE. WHERE A PEDESTRIAN CIRCULATION PATH CROSSES THE CURB RAMP, FLARED SIDES SHALL BE INSTALLED WITH A SLOPE OF 10% MAXIMUM. THE SLOPE OF FLARED SIDES IS MEASURED PARALLEL TO THE CURB LINE. (ALSO SEE CURB RAMP CONFIGURATION TYPE 7 ON SHEET 3 OF 9.)
- THE BACKSIDE OF A PARALLEL RAMP SHOULD BE GRADED TO MATCH EXISTING TERRAIN, UNLESS OTHERWISE SHOWN IN THE CONTRACT DOCUMENTS. WHERE GRADING IS NOT FEASIBLE DUE TO LIMITED ROW OR PHYSICAL CONSTRAINTS, A BACK CURB MAY BE INSTALLED. SEE DETAILS ON SHEET 7 OF 9.

TURNING SPACE AND CLEAR SPACE NOTES:

- WHERE A CHANGE IN DIRECTION IS REQUIRED TO UTILIZE A CURB RAMP, A TURNING SPACE SHALL BE PROVIDED AT THE BASE AND/OR THE TOP OF CURB RAMP AS APPLICABLE. TURNING SPACES SHALL BE PERMITTED TO OVERLAP CLEAR SPACES.
- WHERE THERE ARE NO VERTICAL CONSTRAINTS AT THE BACK OF SIDEWALK, (E.G., VERTICAL CURB, BUILDINGS, FENCES) THE TURNING SPACE DIMENSIONS SHALL BE 4.00' x 4.00' MINIMUM. WHERE THE TURNING SPACE IS CONSTRAINED AT THE BACK OF SIDEWALK, THE TURNING SPACE SHALL BE 4.00' x 5.00' MINIMUM. THE 5.00' DIMENSION SHALL BE PROVIDED PERPENDICULAR TO THE CONSTRAINT.
- TURNING SPACE MAXIMUM CROSS SLOPE IS 2% IN ANY DIRECTION.
- BEYOND THE BOTTOM GRADE BREAK, A CLEAR SPACE OF 4.00' x 4.00' MINIMUM SHALL BE PROVIDED WITHIN THE WIDTH OF THE PEDESTRIAN CROSSWALK, AND OUTSIDE THE PARALLEL VEHICLE TRAVEL LANE. THE CLEAR SPACE MAY OVERLAP TURNING SPACES, DETECTABLE WARNING SURFACES, AND DROP CURBS.

DETECTABLE WARNING DEVICE NOTES:

- DETECTABLE WARNING DEVICES (DWD) SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS ON PEDESTRIAN ACCESS ROUTES:
 - CURB RAMPS AT PEDESTRIAN CROSSINGS.
 - PEDESTRIAN REFUGE ISLANDS (WHERE THE LENGTH OF THE PEDESTRIAN ACCESS ROUTE ACROSS THE REFUGE ISLAND IS GREATER THAN OR EQUAL TO 6.00'). SEE SHEET 8 OF 9.
 - PEDESTRIAN AT-GRADE RAIL CROSSINGS NOT LOCATED WITHIN A STREET OR HIGHWAY.
 - DRIVEWAY CROSSINGS WITH NHDOT APPROVED AND MAINTAINED SIGNALS, YIELD OR STOP CONTROL. DETECTABLE WARNING DEVICES SHALL NOT BE PROVIDED AT CROSSINGS OF UNCONTROLLED DRIVEWAY APRONS.
- SOME DETECTABLE WARNING PRODUCTS REQUIRE A CONCRETE BORDER FOR PROPER INSTALLATION. IF REQUIRED, THE BORDER SHALL NOT EXCEED 2" IN WIDTH OR 6" ALONG ROADWAY EDGE/CURB. THE BORDER DIMENSION SHALL BE MEASURED FROM THE INSIDE EDGE OF THE RADIUS.
- THE DETAILS PROVIDED ARE NOT DRAWN TO SCALE. THE QUANTITY OF DOMES DEPICTED ON THE DETECTABLE WARNING DEVICE DETAIL IS FOR ILLUSTRATION ONLY. THE SIZE OF THE DETECTABLE WARNING FIELD SHALL BE 2.00' MINIMUM IN THE DIRECTION OF TRAVEL AND SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE, EXCLUDING ANY FLARED SIDES. THE WIDTH OF THE DETECTABLE WARNING FIELD INCLUDES A CONCRETE BORDER, IF PROVIDED. PLACEMENT AND ORIENTATION SHALL BE IN COMPLIANCE WITH THE DETAILS.
- ON SLOPES OF 5% OR GREATER, THE ROWS OF DOMES SHALL BE ALIGNED TO BE PERPENDICULAR OR RADIAL TO THE LOWER GRADE BREAK ON THE RAMP RUN. WHERE DOMES ARE ARRAYED RADially THEY MAY DIFFER IN DOME DIAMETER AND CENTER-TO-CENTER SPACING WITHIN THE RANGES SPECIFIED ON SHEET 9. ON SLOPES LESS THAN 5%, DOME ORIENTATION IS LESS CRITICAL AND MAY DIFFER FROM PERPENDICULAR OR RADIAL ALIGNMENT TO THE GRADE BREAK.
- THE DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT GUTTER, STREET OR HIGHWAY, OR PEDESTRIAN ACCESS ROUTE SURFACE.
- DETECTABLE WARNING PANELS SHALL BE CAST IRON WITH NO SURFACE COATING AND SHALL BE ALLOWED TO TRANSITION TO THEIR NATURAL PATINA.

DEFINITION OF TERMS:

LANDING: A 4.00' x 4.00' CLEAR SPACE WITH A 2% SLOPE OR LESS IN ALL DIRECTIONS.

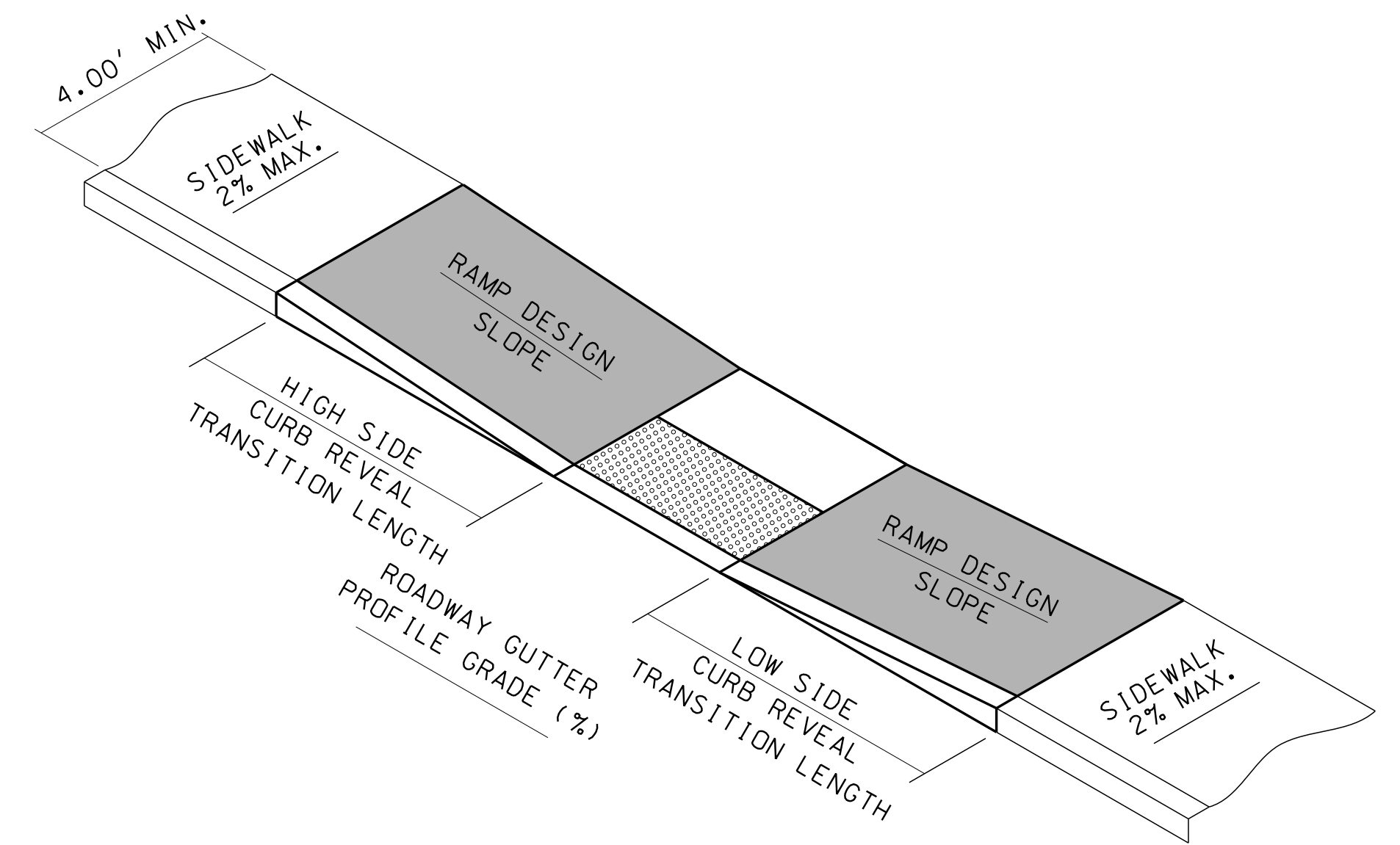
MAXIMUM EXTENT FEASIBLE: ALL CHANGES THAT ARE POSSIBLE ARE MADE TO COMPLY WITH ACCESSIBILITY STANDARDS.

PEDESTRIAN ACCESS ROUTE (PAR): A CONTINUOUS AND UNOBSTRUCTED PATH OF TRAVEL PROVIDED FOR PEDESTRIANS WITH DISABILITIES WITHIN OR CONINCIDING WITH A PEDESTRIAN CIRCULATION PATH. PAR SHALL BE 4' W MIN. (EXCLUDING CURBING), 2% MAX. CROSS SLOPE AND 1/4" OR LESS VERTICAL DISCONTINUITY.

TECHNICAL INFEASIBILITY: EXISTING PHYSICAL OR SITE CONSTRAINTS THAT PROHIBIT MODIFICATIONS OR ADDITIONS OF ELEMENTS, SPACES OR FEATURES TO COMPLY WITH MINIMUM ACCESSIBILITY REQUIREMENTS.

INDEX OF SHEETS

1 OF 9	INDEX OF SHEETS AND GENERAL NOTES
2 OF 9	CURB RAMP CONFIGURATIONS TYPE 1 - 5
3 OF 9	CURB RAMP CONFIGURATIONS TYPE 6 - 7
4 OF 9	CURB RAMP CONFIGURATIONS TYPE 8 - 11
5 OF 9	SLIP RAMP, SIDEWALK TO SHOULDER TRANSITION, ACCESS ISLAND
6 OF 9	DETECTABLE WARNING DEVICE PLACEMENT OPTIONS
7 OF 9	RAMP SIDE CONFIGURATIONS AND BACK TREATMENTS
8 OF 9	RR X-INGS, ROUNDABOUTS, PEDESTRIAN BUTTONS
9 OF 9	DETECTABLE WARNING DEVICE, TRUNCATED DOMES, MISCELLANEOUS DETAILS

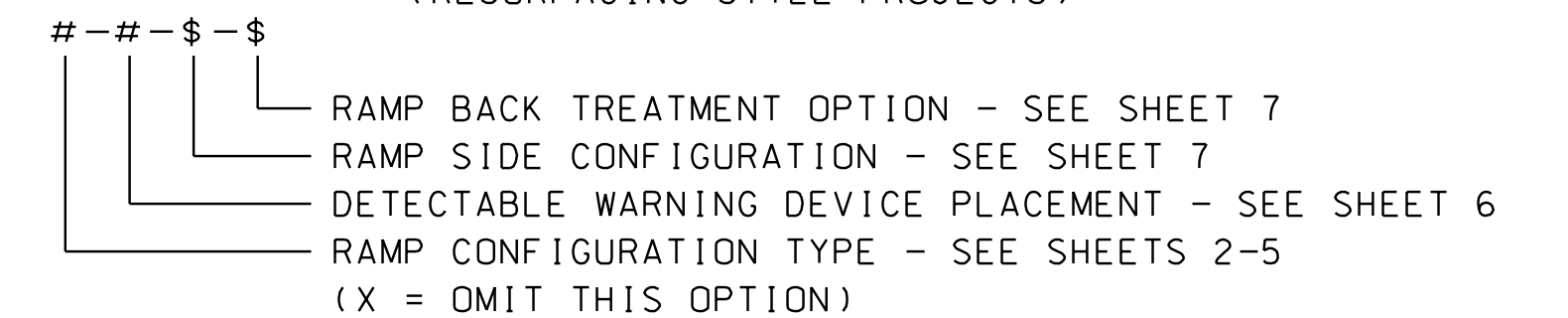


CURB REVEAL (INCHES)		7	6	5	4	3	2	1	
ROADWAY PROFILE GRADE (%)	Minimum Transition Length Required (FT)								
Low Side Transition Length	-10%	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
	-9%	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
	-8%	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
	-7%	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
	-6%	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
	-5%	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
	-4%	5.1	5.0	5.0	5.0	5.0	5.0	5.0	
	-3%	5.6	5.0	5.0	5.0	5.0	5.0	5.0	
	-2%	6.1	5.3	5.0	5.0	5.0	5.0	5.0	
	-1%	6.9	5.9	5.0	5.0	5.0	5.0	5.0	
High Side Transition Length	0%	7.8	6.7	5.6	5.0	5.0	5.0	5.0	
	1%	9.0	7.7	6.4	5.1	5.0	5.0	5.0	
	2%	10.6	9.1	7.6	6.1	5.0	5.0	5.0	
	3%	13.0	11.1	9.3	7.4	5.6	5.0	5.0	
	4%	15.0	14.3	11.9	9.5	7.1	5.0	5.0	
	5%	15.0	15.0	15.0	13.3	10.0	6.8	5.0	
	6%	15.0	15.0	15.0	15.0	15.0	11.3	5.3	
	7%	15.0	15.0	15.0	15.0	15.0	15.0	15.0	
	8%	15.0	15.0	15.0	15.0	15.0	15.0	15.0	
	9%	15.0	15.0	15.0	15.0	15.0	15.0	15.0	
10%	15.0	15.0	15.0	15.0	15.0	15.0	15.0		

THIS TABLE REPRESENTS THE MINIMUM LENGTH OF CURB RAMP TRANSITION BASED ON THE EXISTING ROADWAY PROFILE GRADE AND THE CURB REVEAL AT FULL HEIGHT ALONG THE SIDEWALK. THE MINIMUM TRANSITION LENGTH REQUIRED IS BASED ON 7.5% SLOPE AND INDICATED CURB REVEAL.

TREATMENT KEY LEGEND

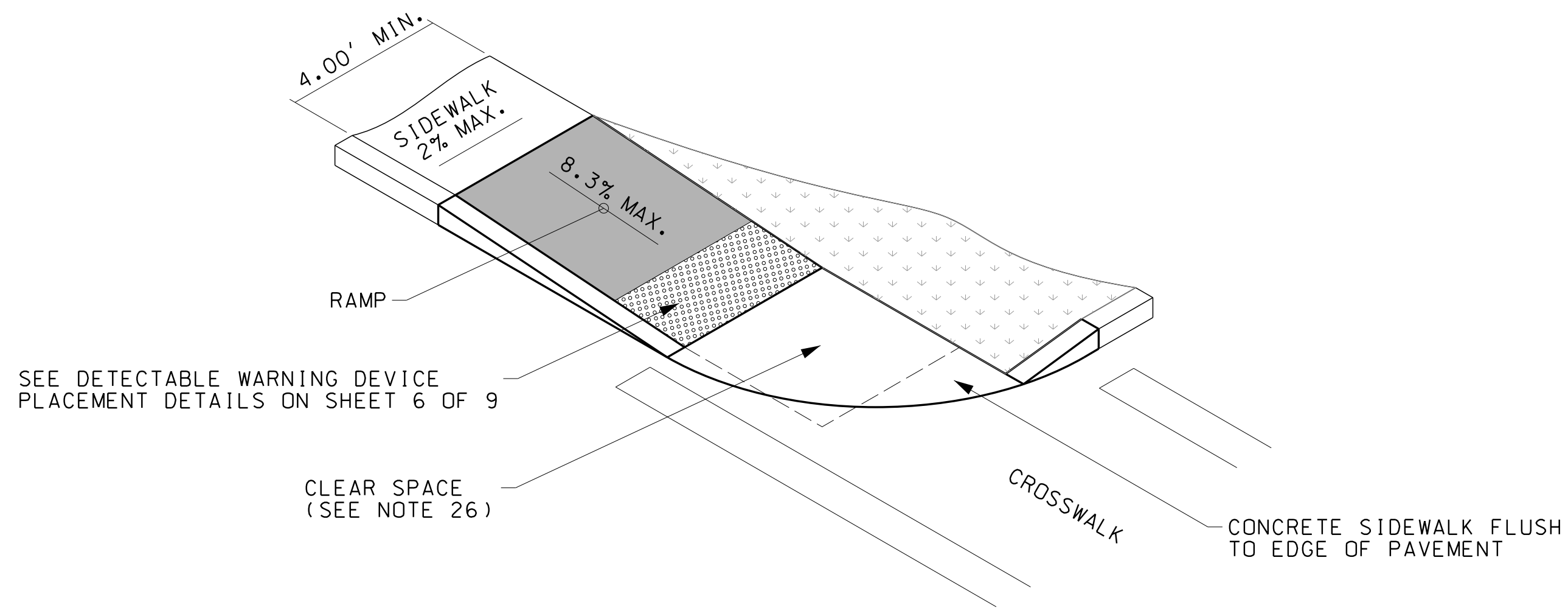
(RESURFACING STYLE PROJECTS)



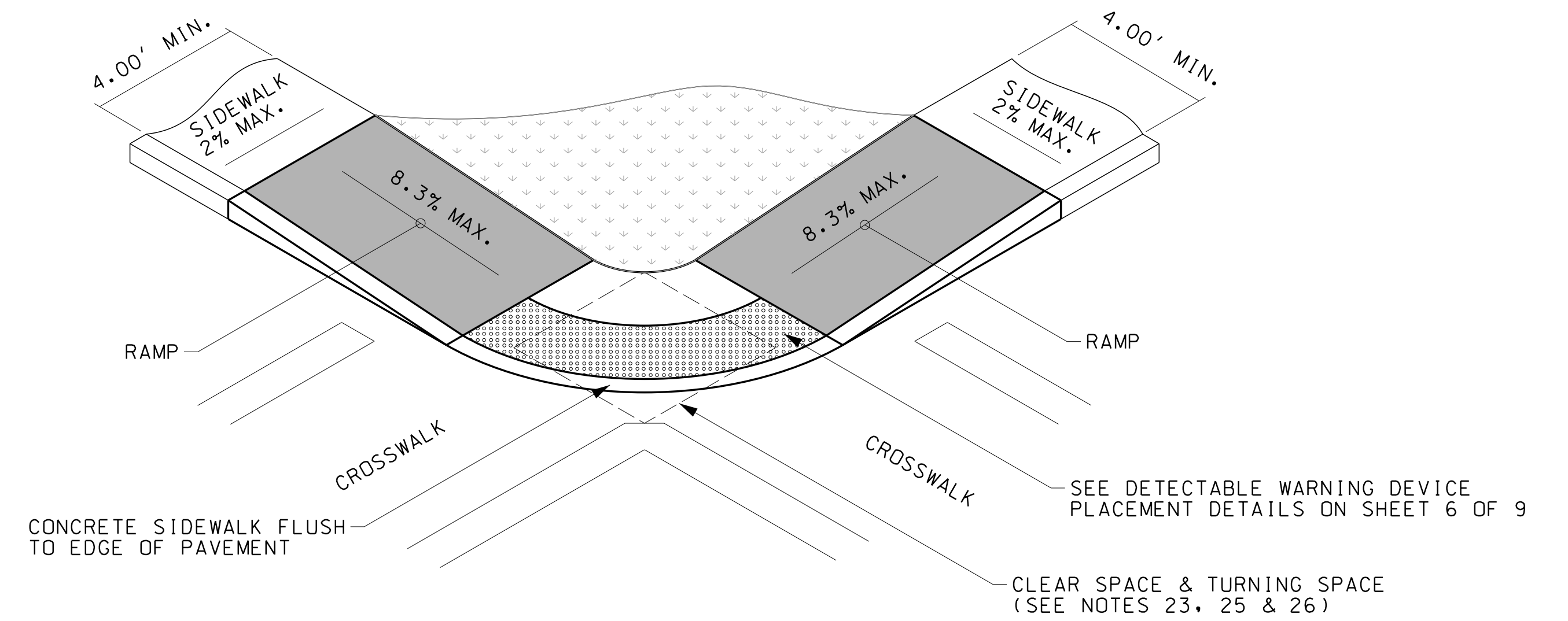
STATE OF NEW HAMPSHIRE
 DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN
SIDEWALK CURB RAMP DETAILS
 (SHEET 1 OF 9)

REVISION DATE	MODEL	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
6-18-18	Curb-Ramp-1	1368crb_ramp_1_9	41368	17	112

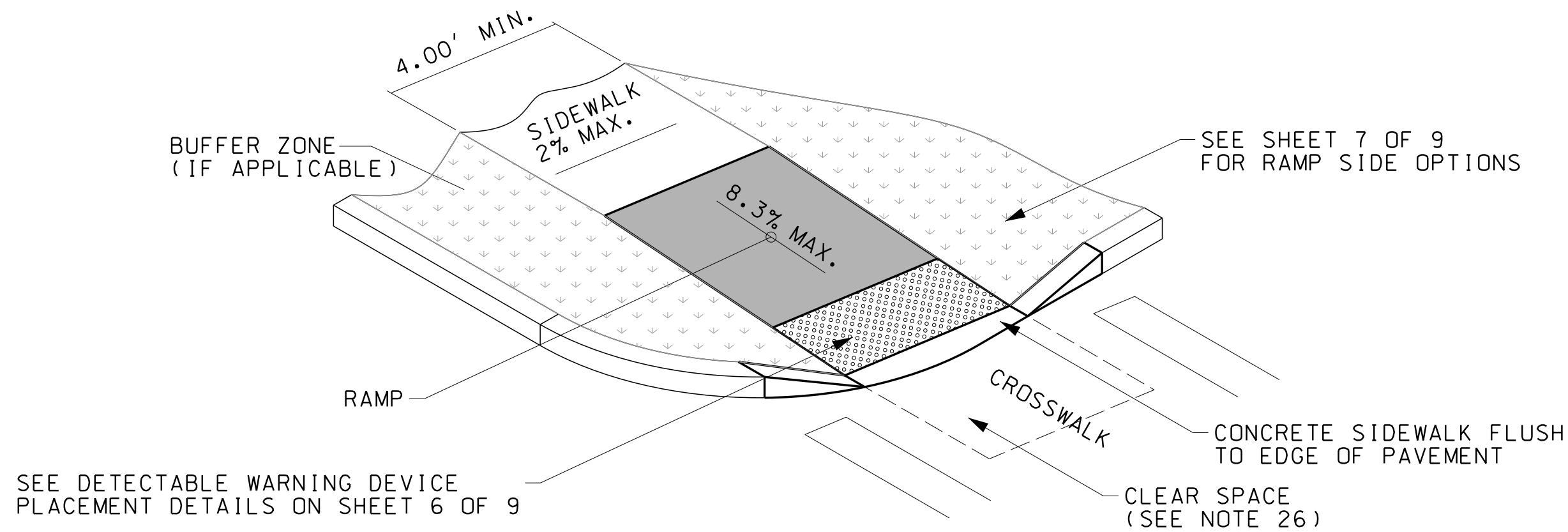
ENGINEER: BRIAN M. BRESLEND NO. 15117



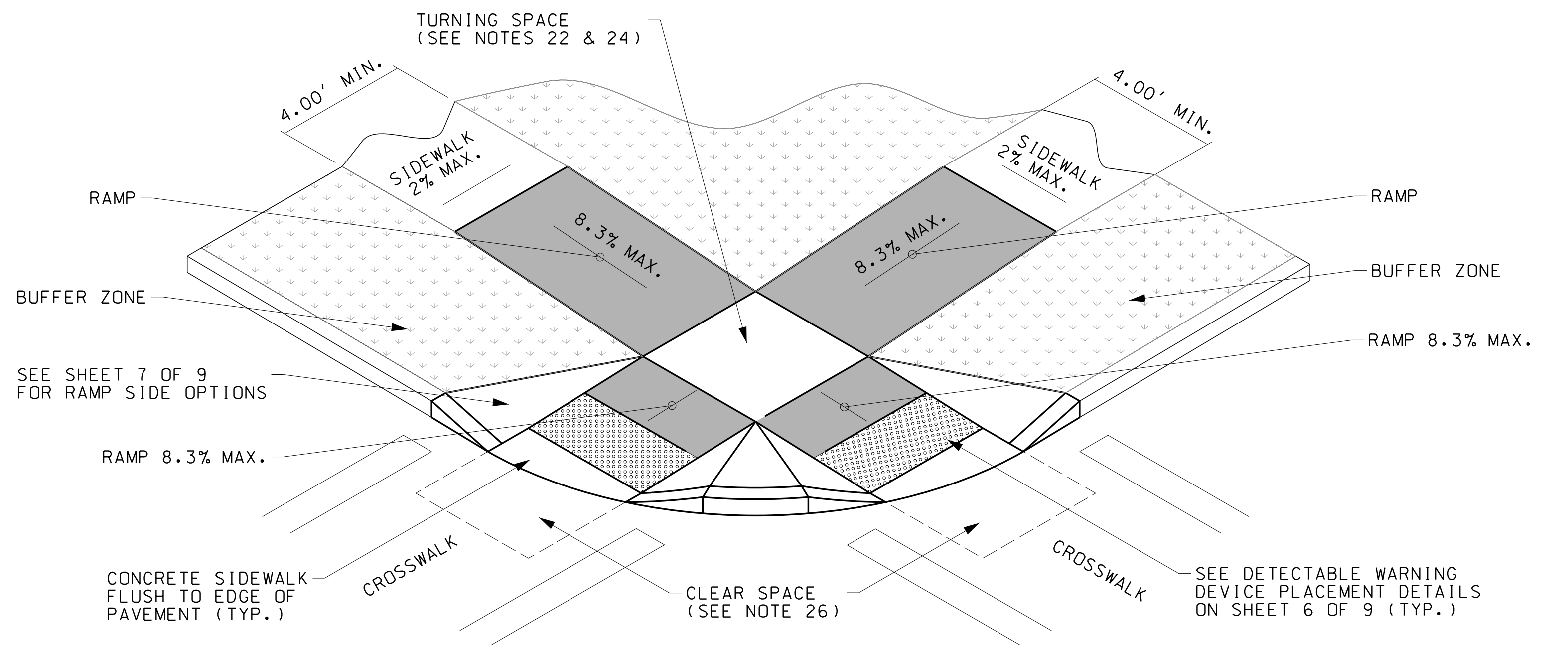
TYPE 1



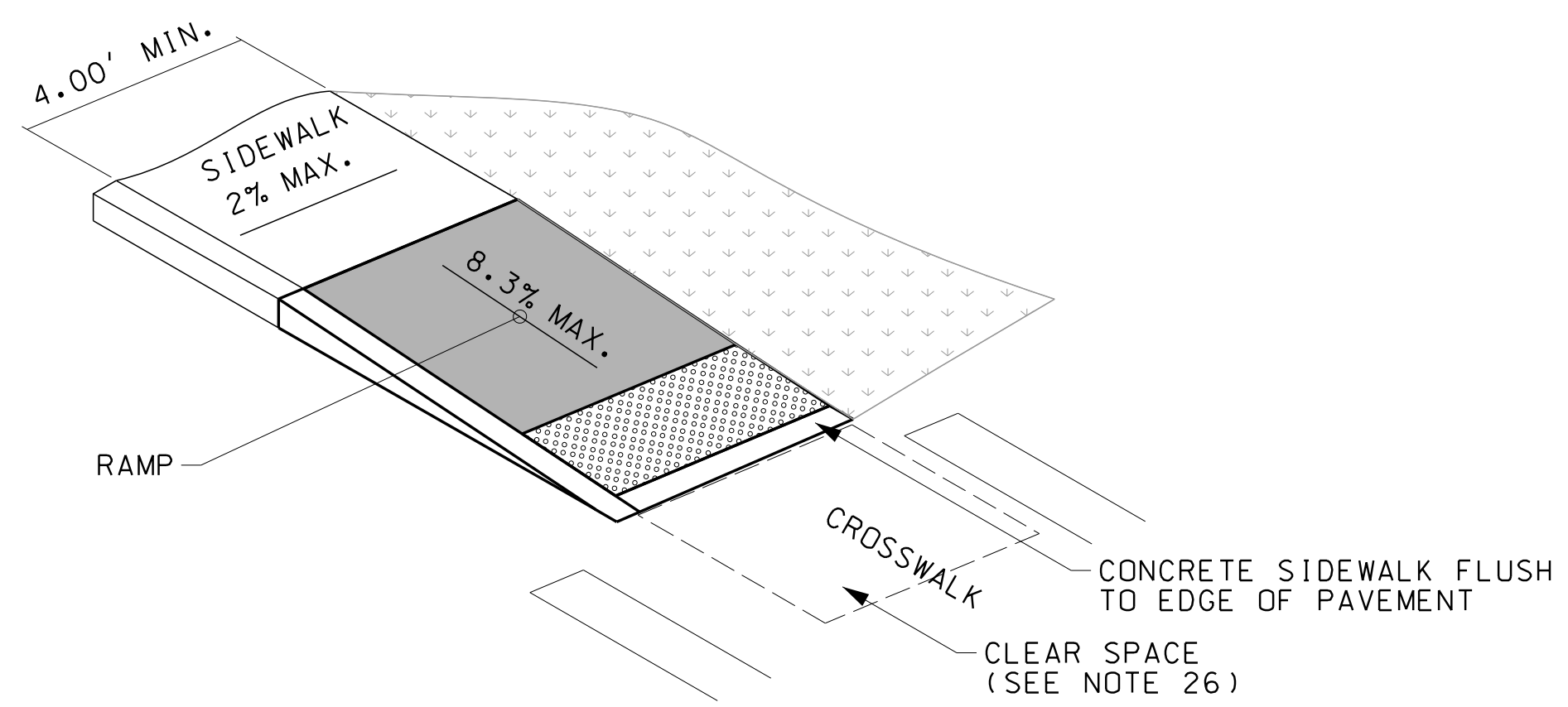
TYPE 4
NOT FOR NEW DESIGNS - RETROFITS ONLY



TYPE 2



TYPE 5



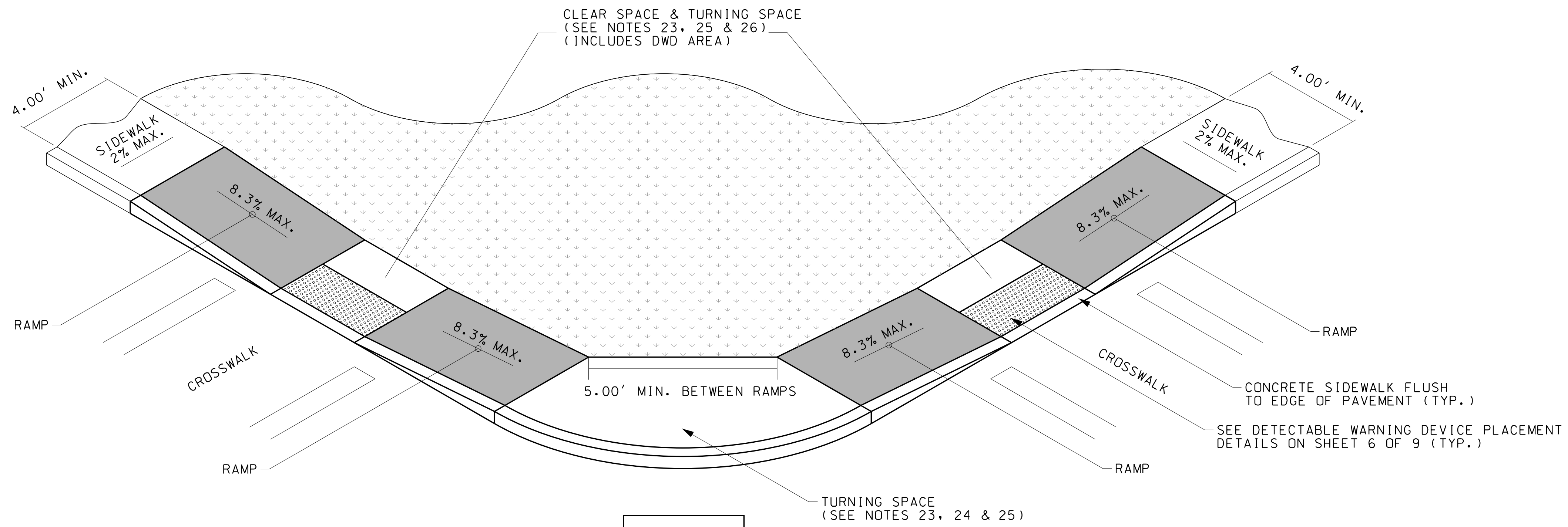
TYPE 3

CURB RAMP CONFIGURATIONS

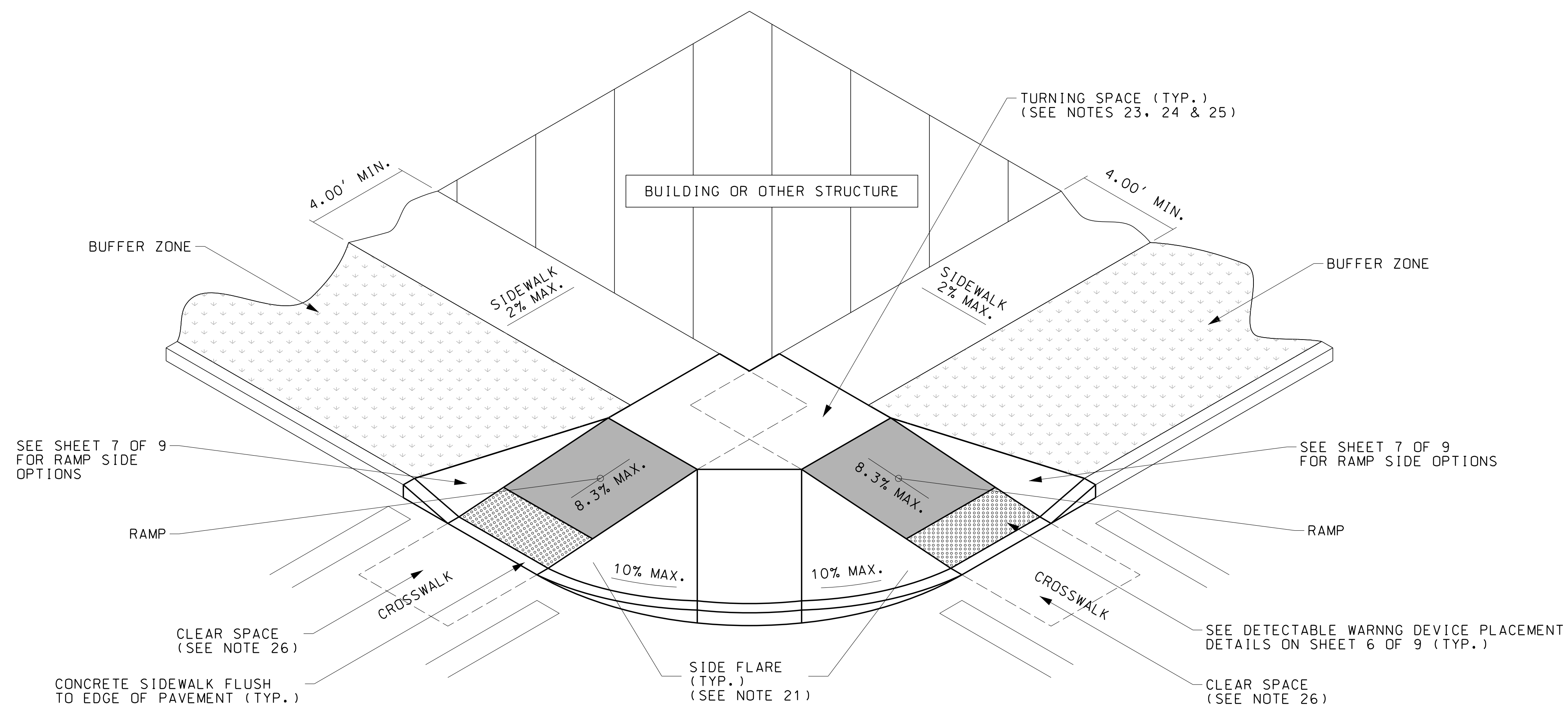
ENGINEER: BRIAN M. BRESLEND NO. 15117

NOTE:
ALL NOTES REFERENCED ON THIS SHEET CAN BE FOUND ON SIDEWALK CURB RAMP DETAILS, SHEET 1 OF 9.

STATE OF NEW HAMPSHIRE					
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN					
SIDEWALK CURB RAMP DETAILS (SHEET 2 OF 9)					
REVISION DATE	MODEL	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
6-18-18	Curb-Ramp-2	1368crb_ramp_1_9	41368	18	112



TYPE 6



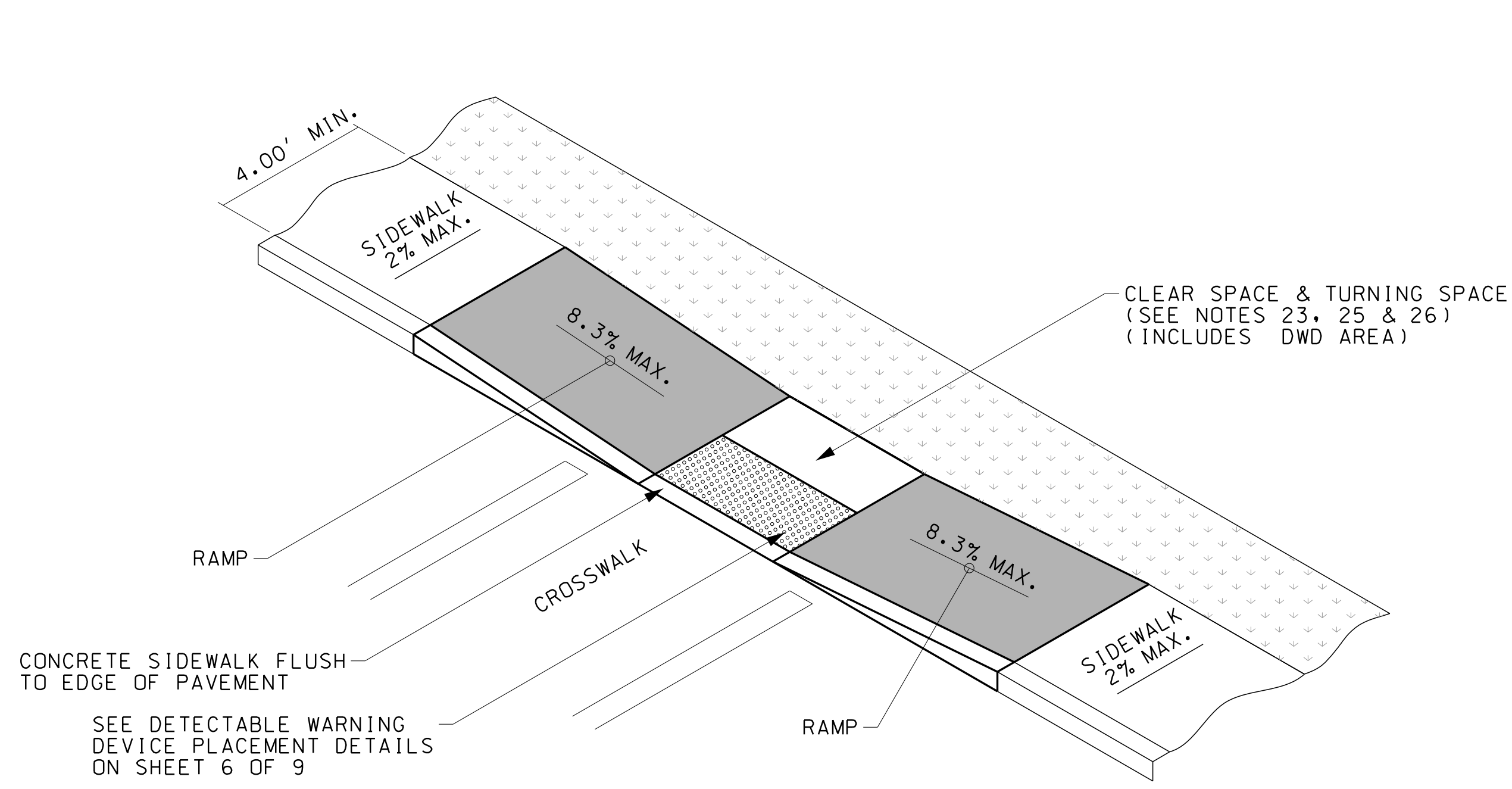
TYPE 7

CURB RAMP CONFIGURATIONS

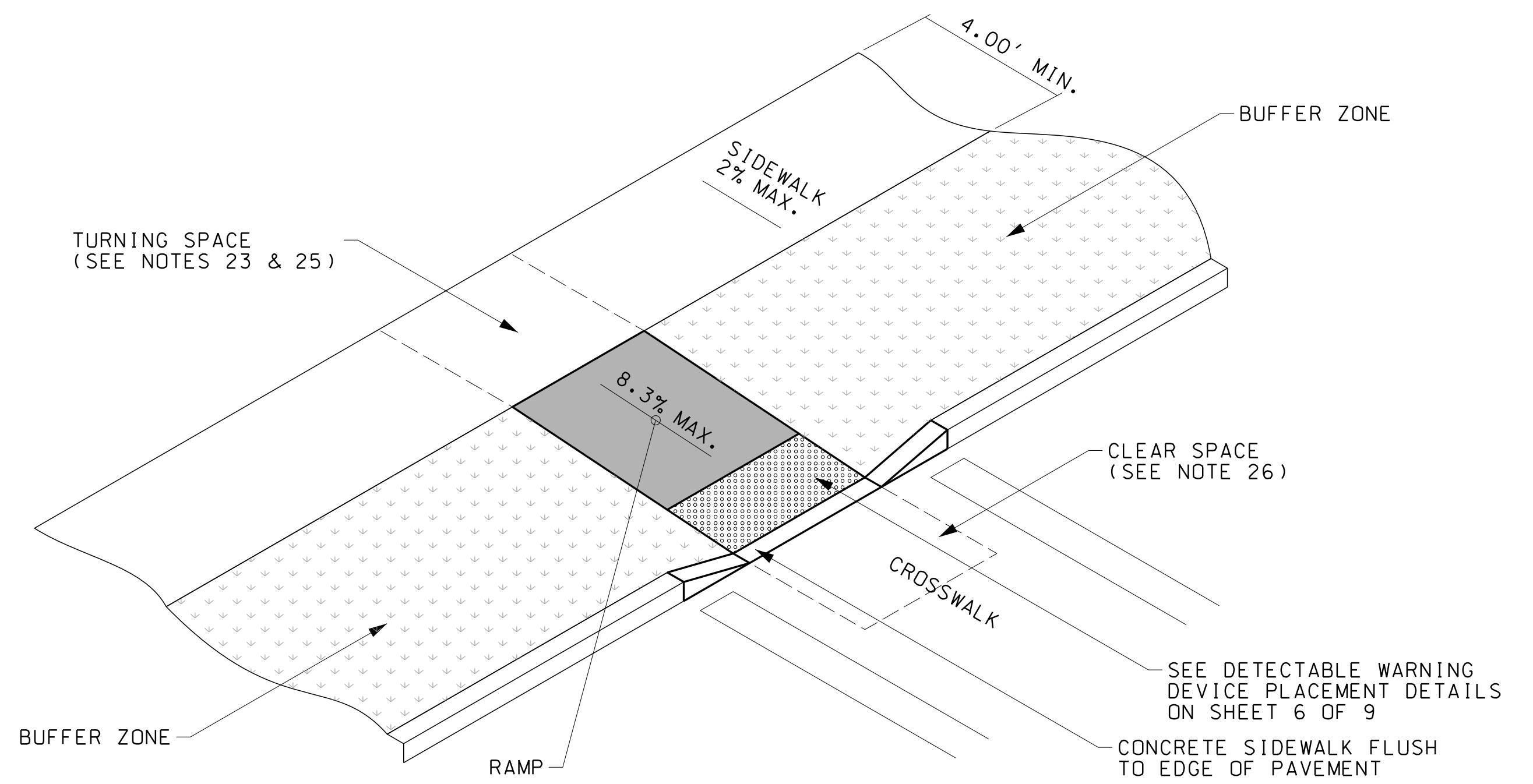
ENGINEER: BRIAN M. BRESLEND NO. 15117

NOTE:
ALL NOTES REFERENCED ON THIS SHEET CAN BE FOUND ON SIDEWALK CURB RAMP DETAILS, SHEET 1 OF 9.

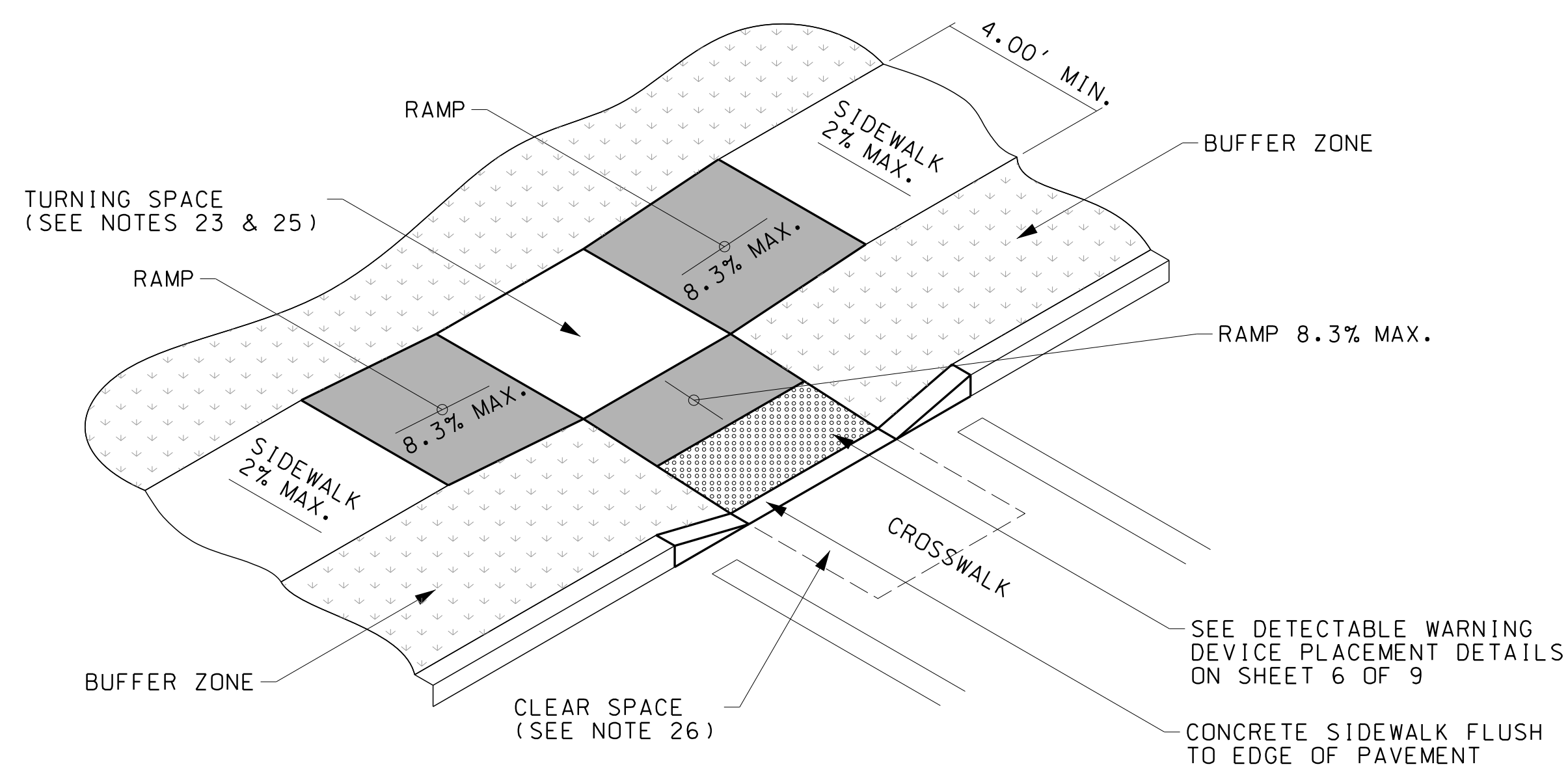
STATE OF NEW HAMPSHIRE					
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN					
SIDEWALK CURB RAMP DETAILS					
<i>(SHEET 3 OF 9)</i>					
REVISION DATE	MODEL	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
6-18-18	Curb-Ramp-3	1368crb_ramp_1_9	41368	19	112



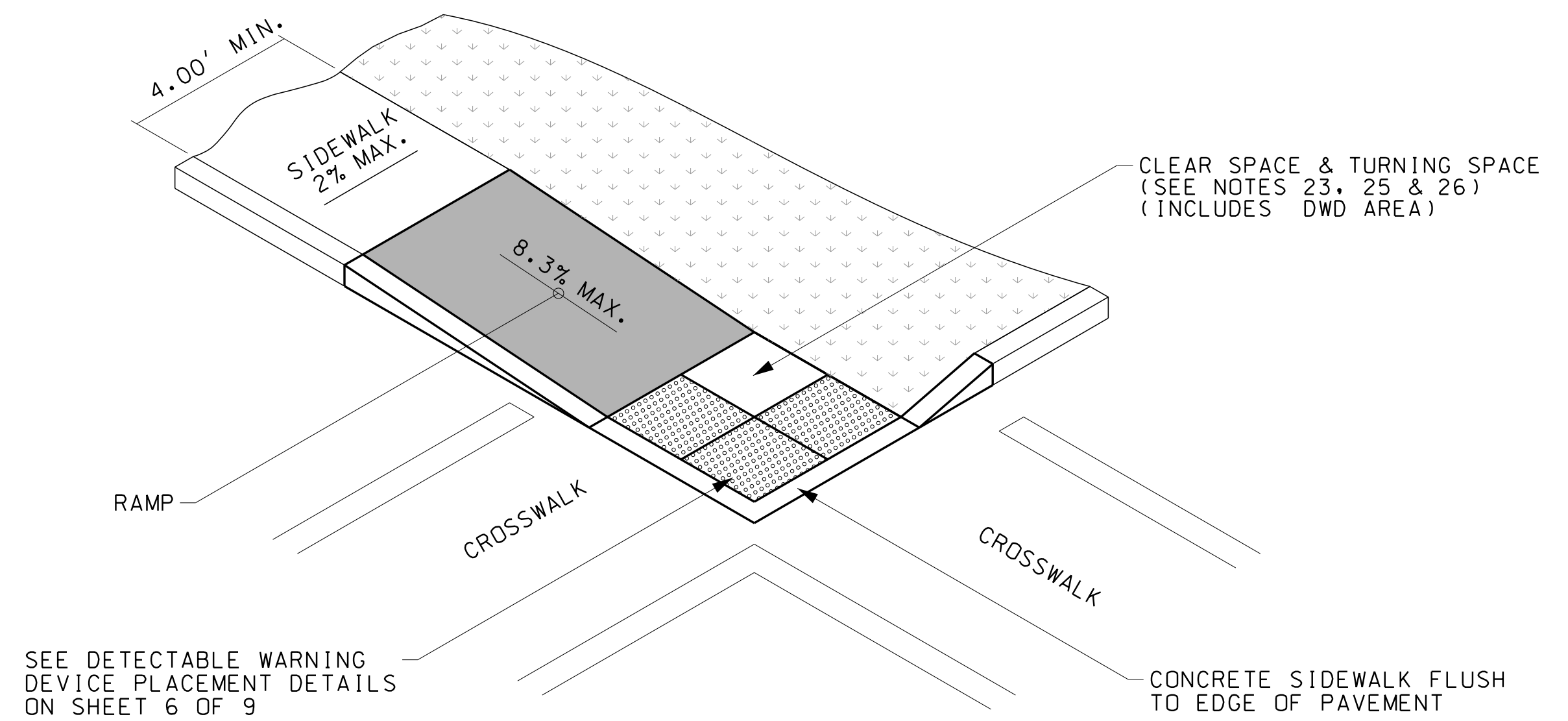
TYPE 8
MID BLOCK CROSSING OR T INTERSECTION



TYPE 10
MID BLOCK CROSSING OR T INTERSECTION



TYPE 9
MID BLOCK CROSSING OR T INTERSECTION



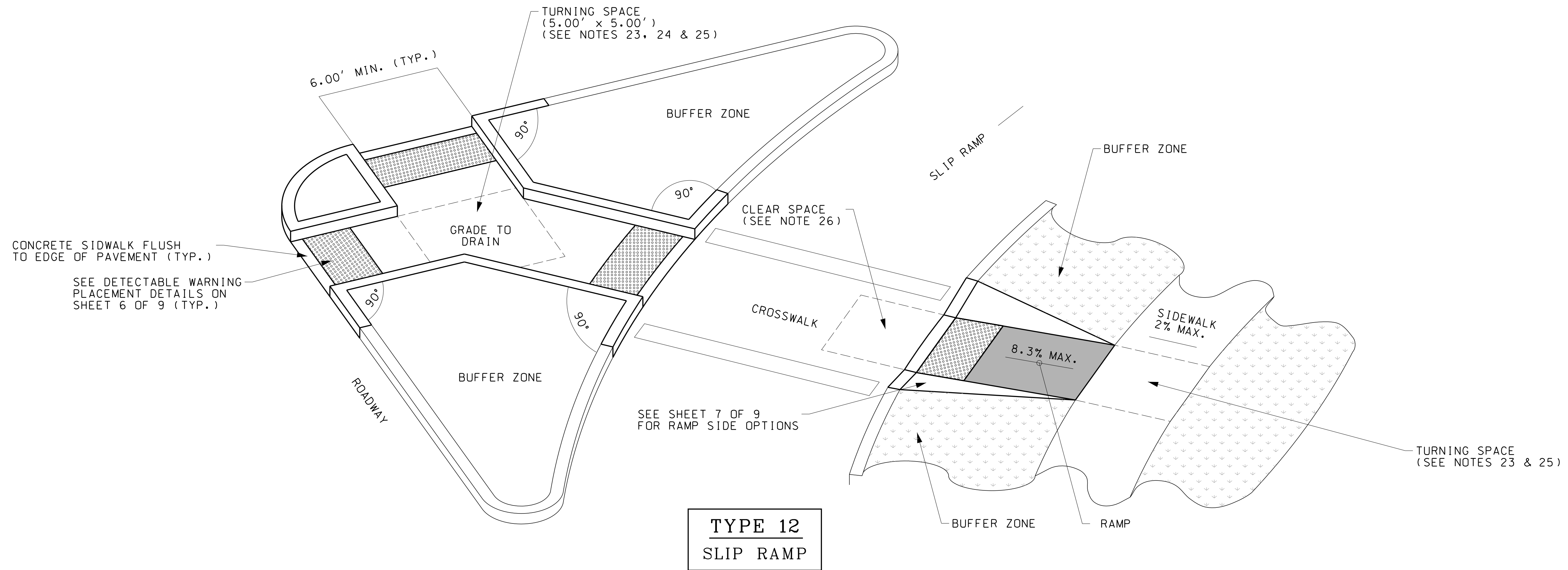
TYPE 11

CURB RAMP CONFIGURATIONS

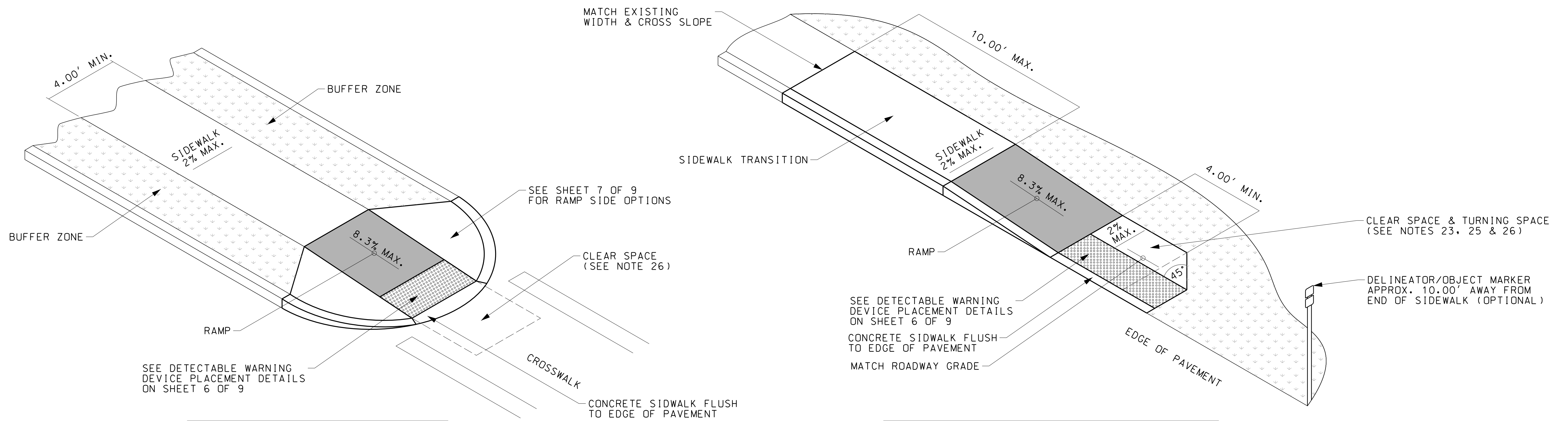
ENGINEER: BRIAN M. BRESLEND NO. 15117

NOTE:
ALL NOTES REFERENCED ON THIS SHEET CAN BE FOUND ON SIDEWALK CURB RAMP DETAILS, SHEET 1 OF 9.

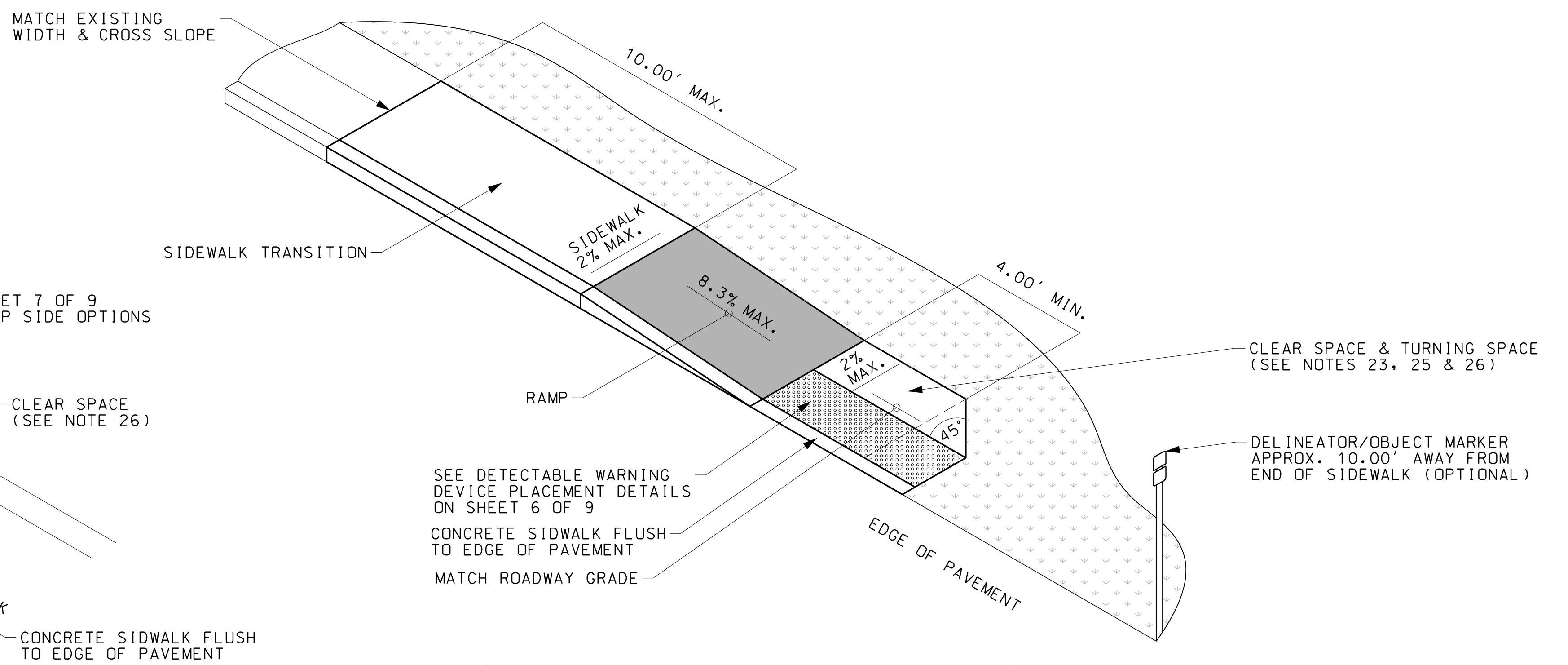
STATE OF NEW HAMPSHIRE					
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN					
SIDEWALK CURB RAMP DETAILS					
<i>(SHEET 4 OF 9)</i>					
REVISION DATE	MODEL	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
6-18-18	Curb-Ramp-4	1368crb_ramp_1_9	41368	20	112



TYPE 12
SLIP RAMP



TYPE 13
ACCESS ISLAND CURB RAMP



TYPE 14
SIDEWALK TO SHOULDER TRANSITION

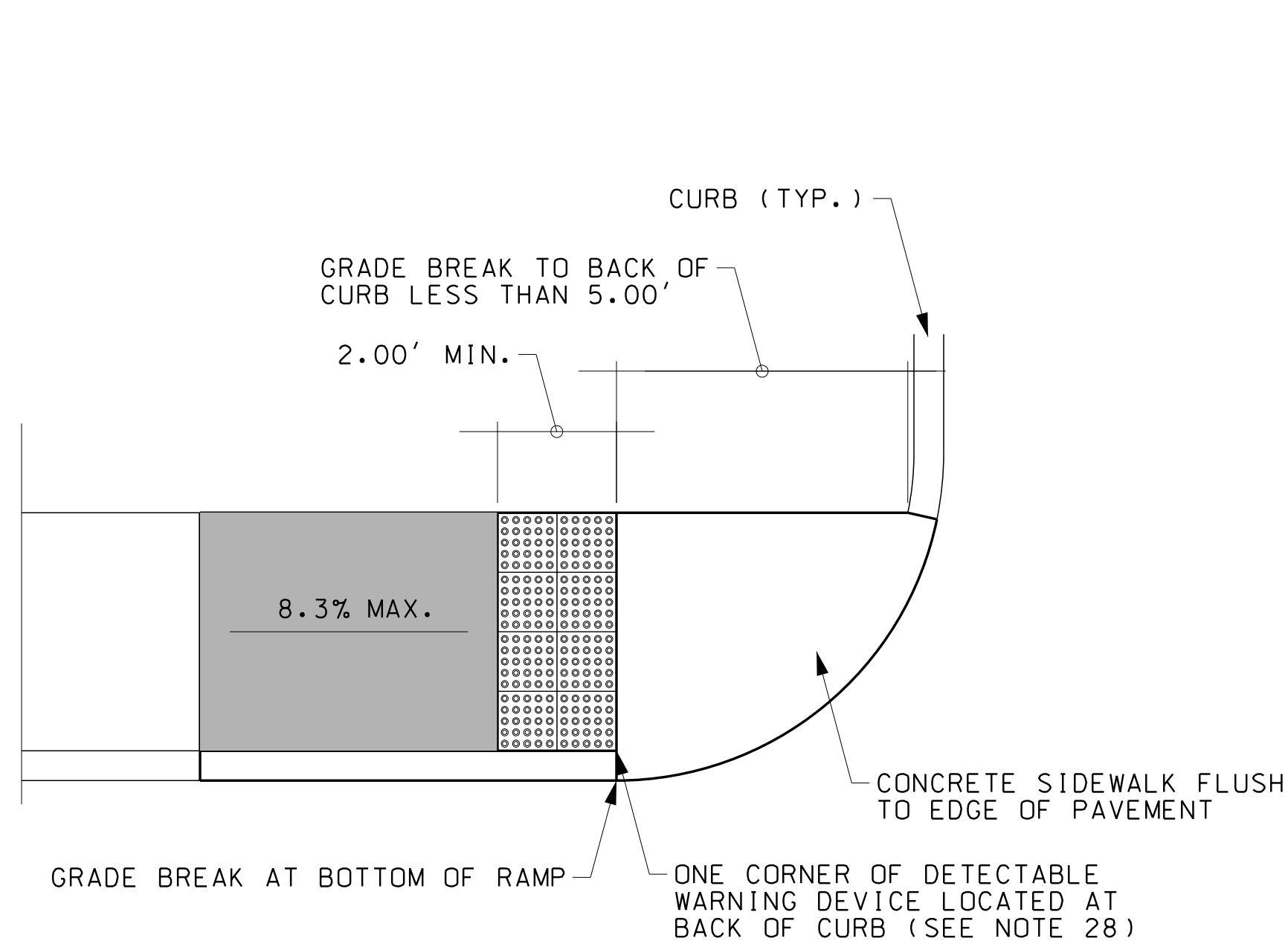
CURB RAMP CONFIGURATIONS

STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN
SIDEWALK CURB RAMP DETAILS
(SHEET 5 OF 9)

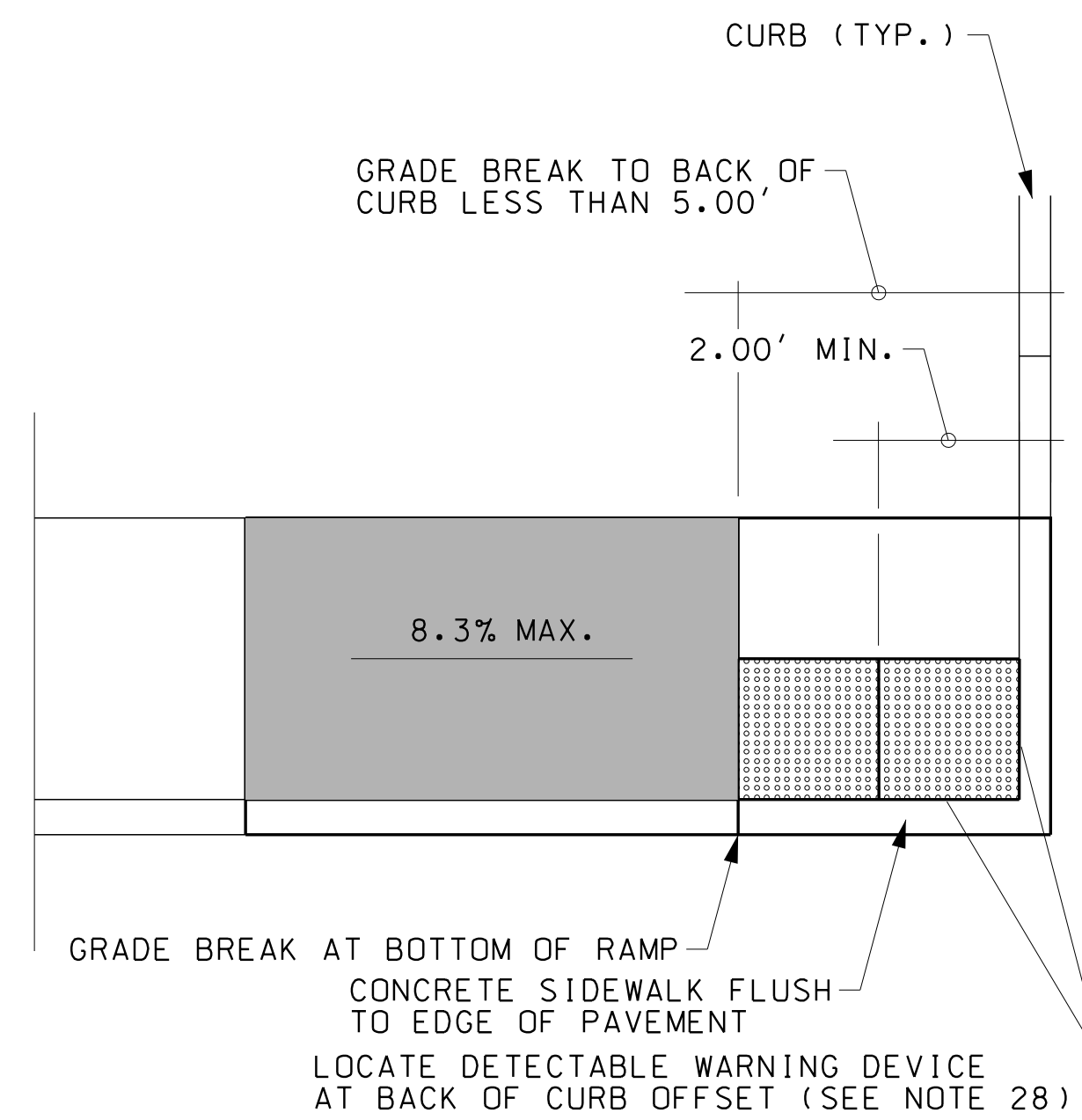
ENGINEER: BRIAN M. BRESLEND NO. 15117

NOTE:
ALL NOTES REFERENCED ON THIS SHEET CAN BE FOUND ON SIDEWALK CURB RAMP DETAILS, SHEET 1 OF 9.

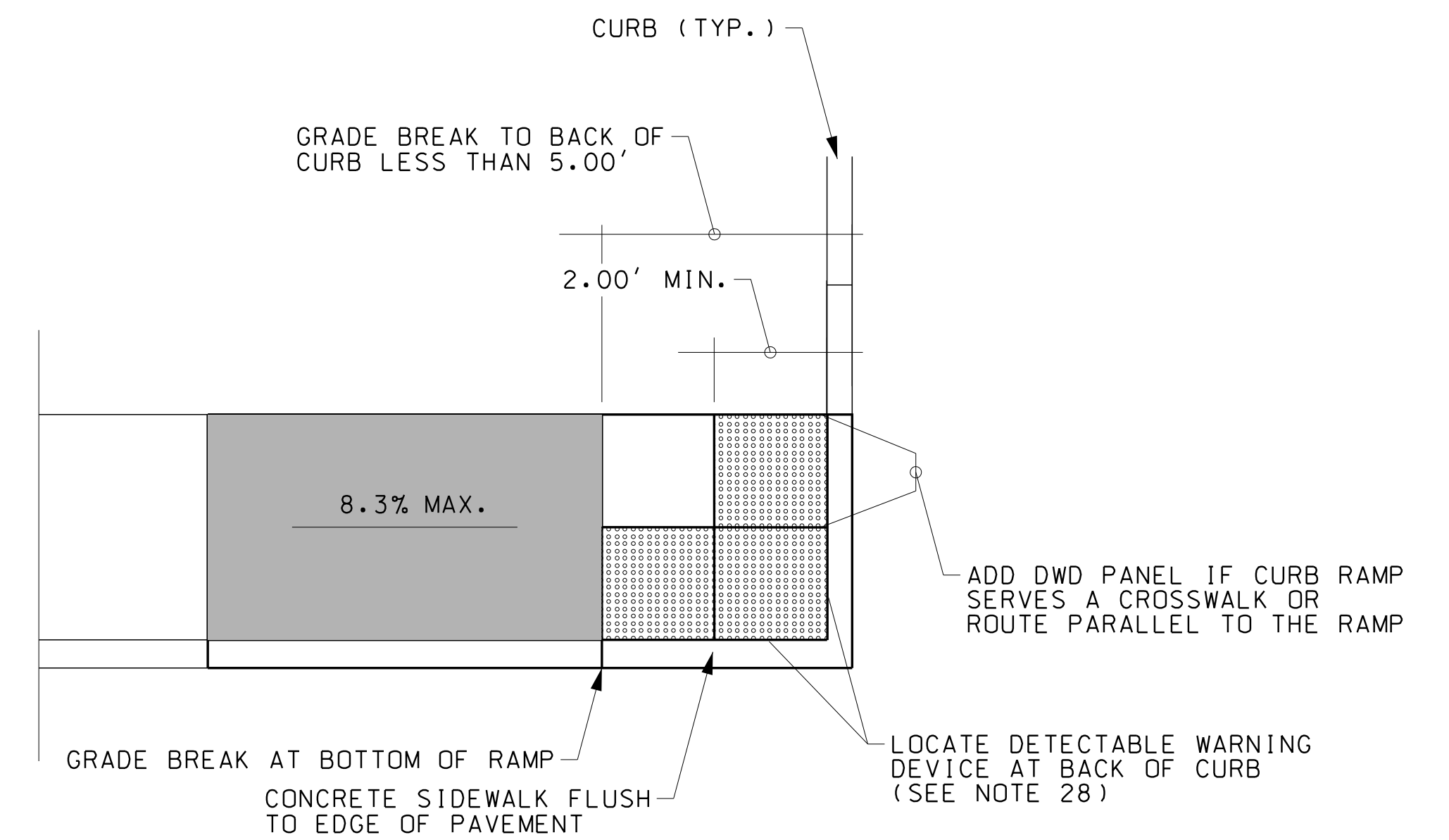
REVISION DATE	MODEL	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
6-18-18	Curb-Ramp-5	1368crb_ramp_1_9	41368	21	112



OPTION 1

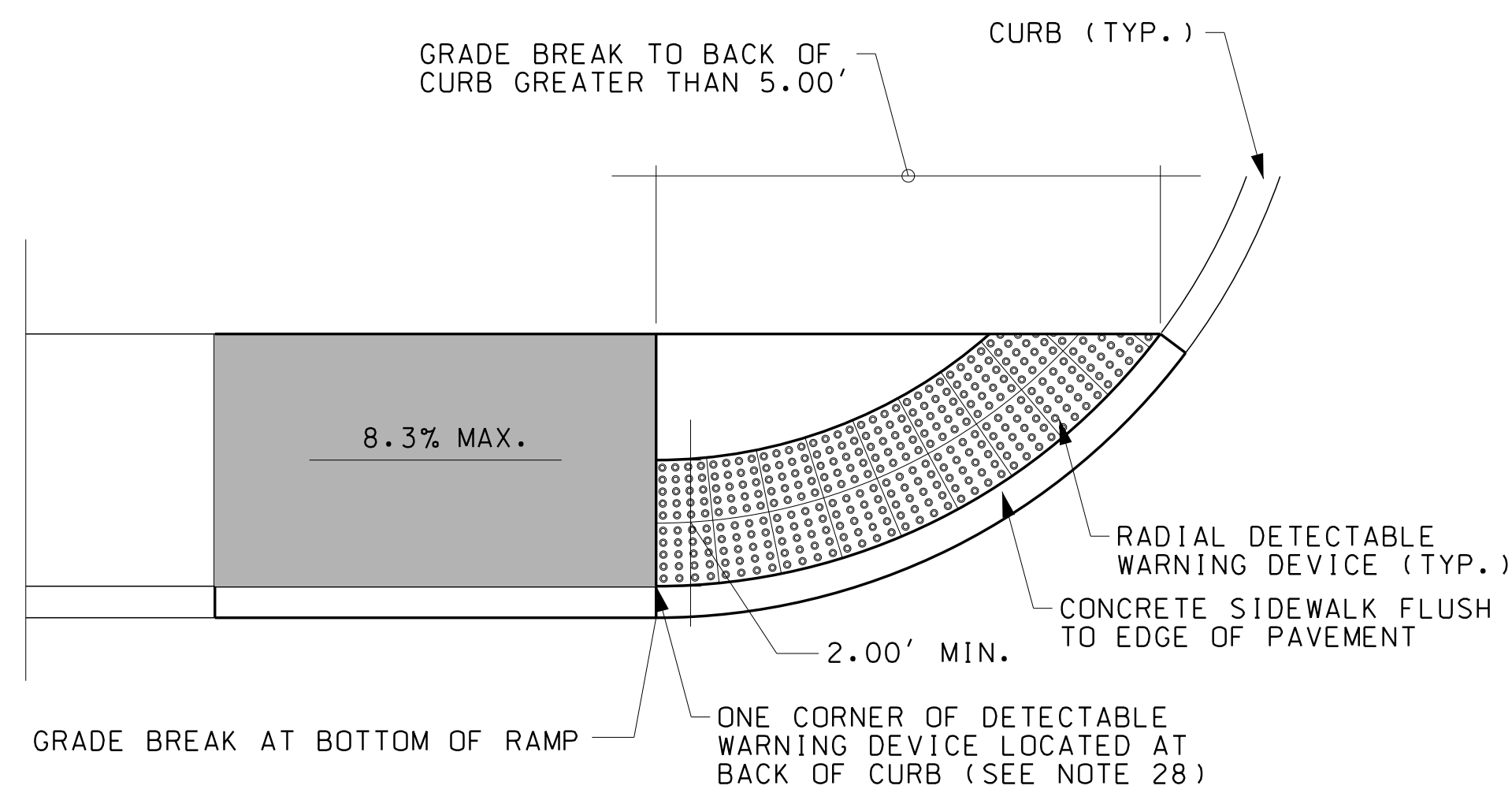


OPTION 2

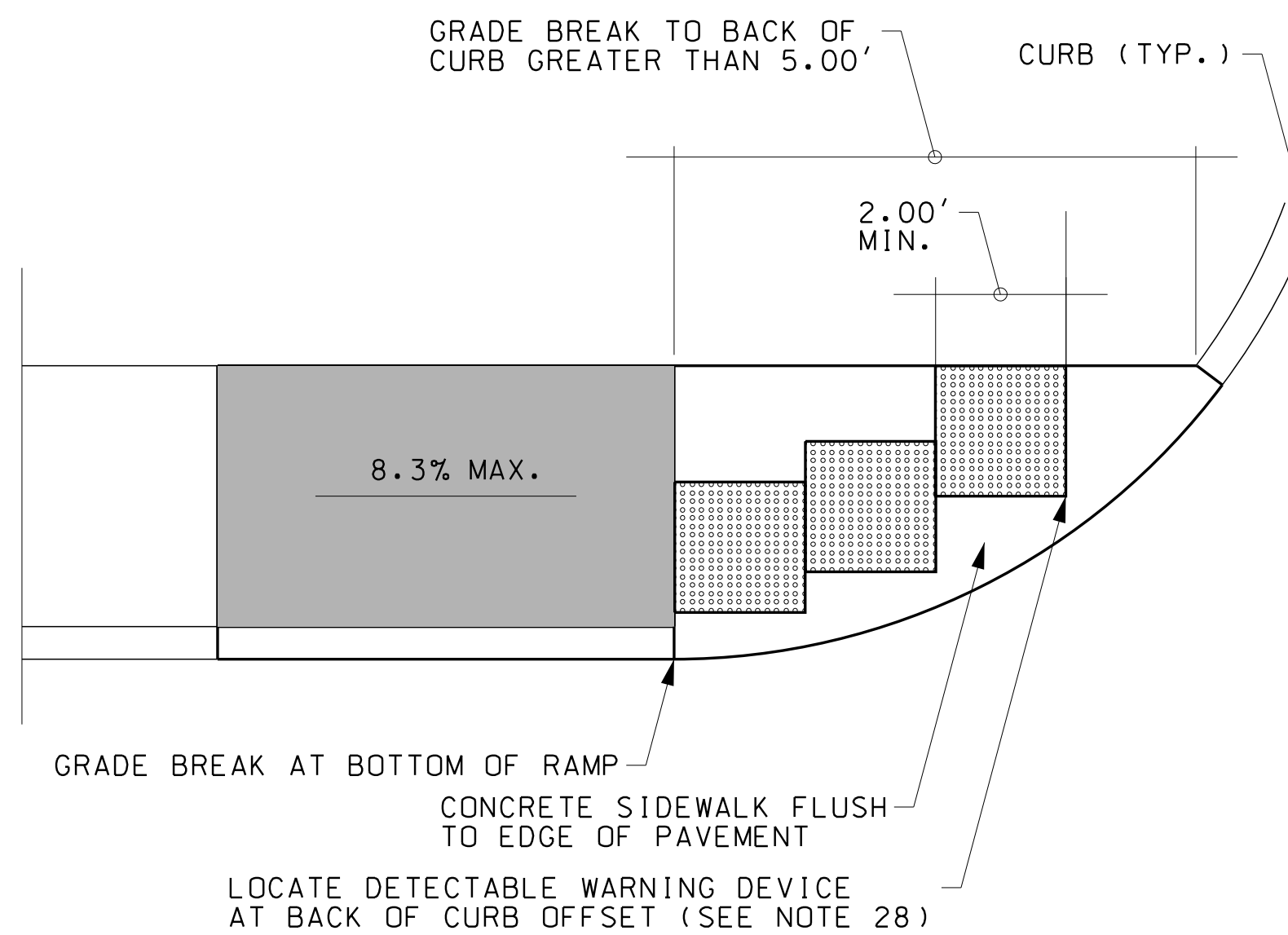


OPTION 2A

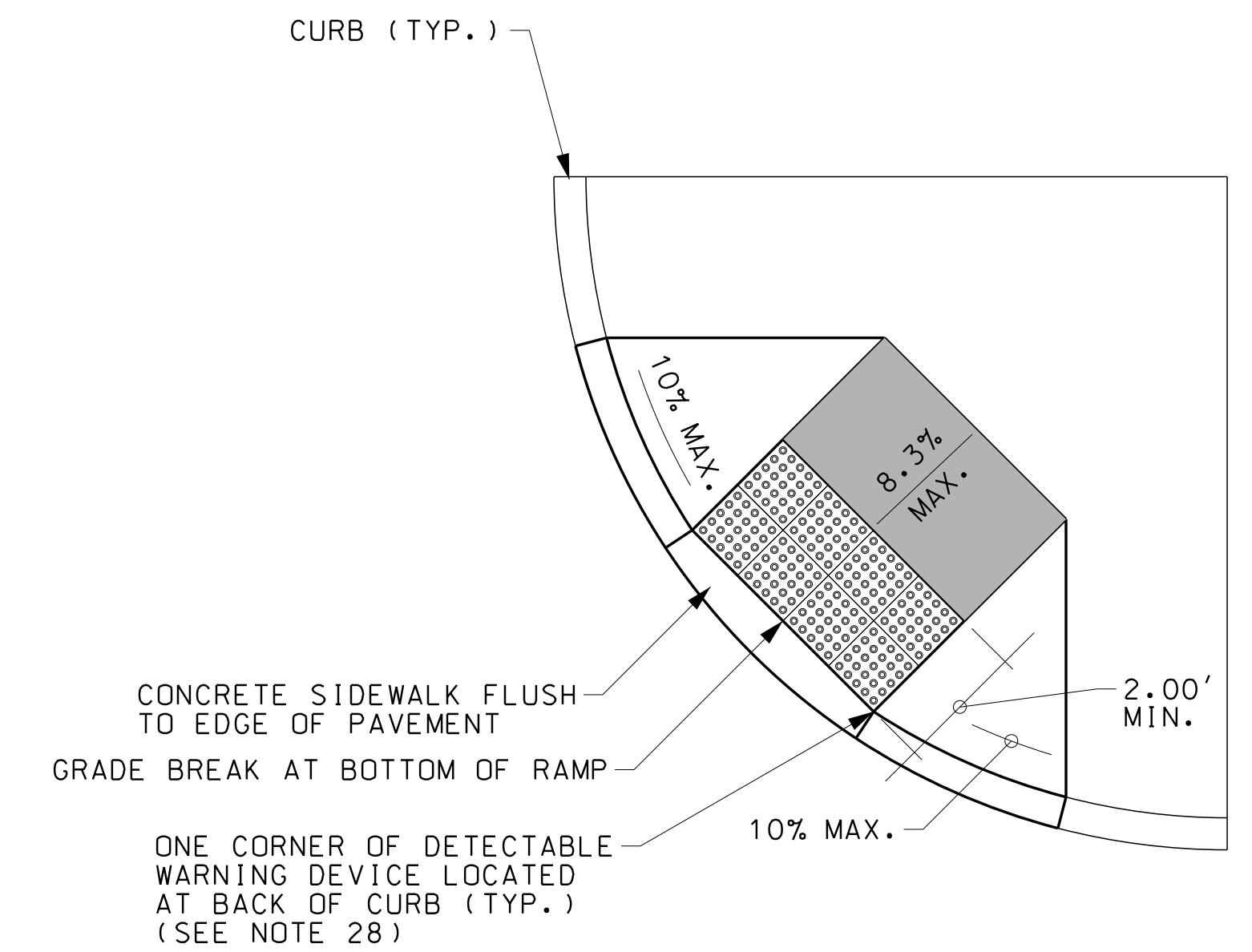
GRADE BREAK TO BACK OF CURB LESS THAN 5.00'



OPTION 3



OPTION 4



OPTION 5

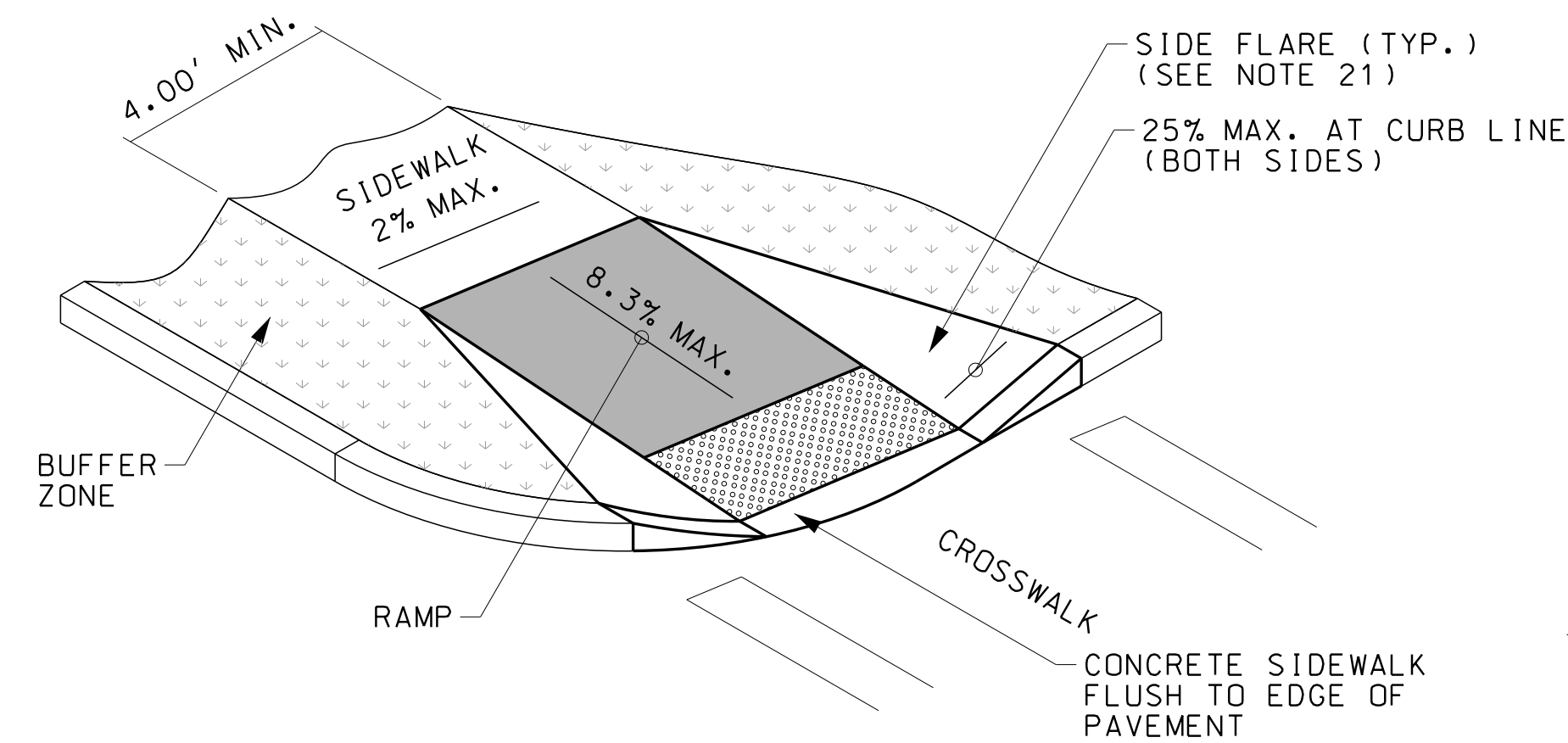
GRADE BREAK TO BACK OF CURB GREATER THAN 5.00'

DETECTABLE WARNING DEVICE (DWD) PLACEMENT OPTION DETAILS

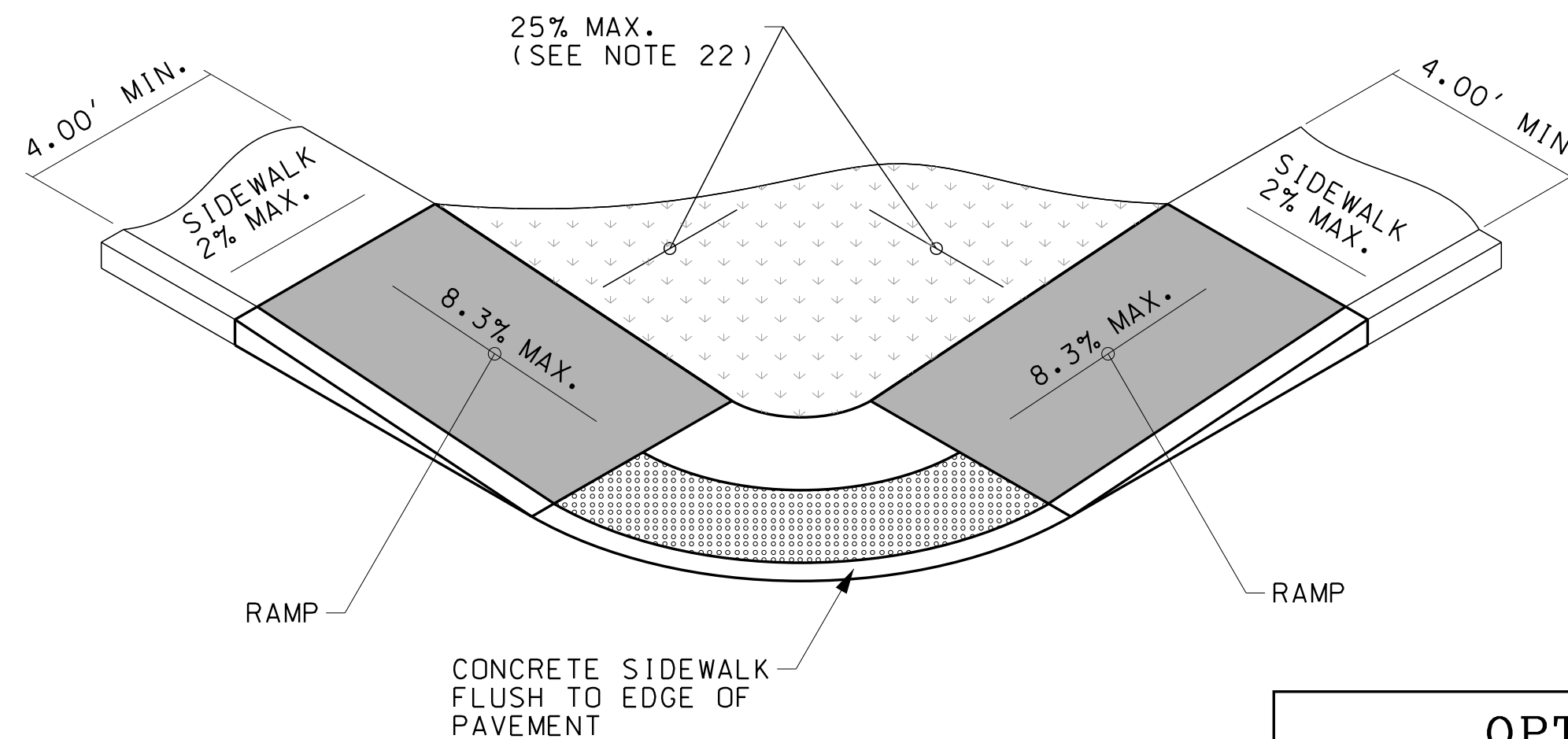
ENGINEER: BRIAN M. BRESLEND NO. 15117

NOTE:
ALL NOTES REFERENCED ON THIS SHEET CAN BE FOUND ON SIDEWALK CURB RAMP DETAILS, SHEET 1 OF 9.

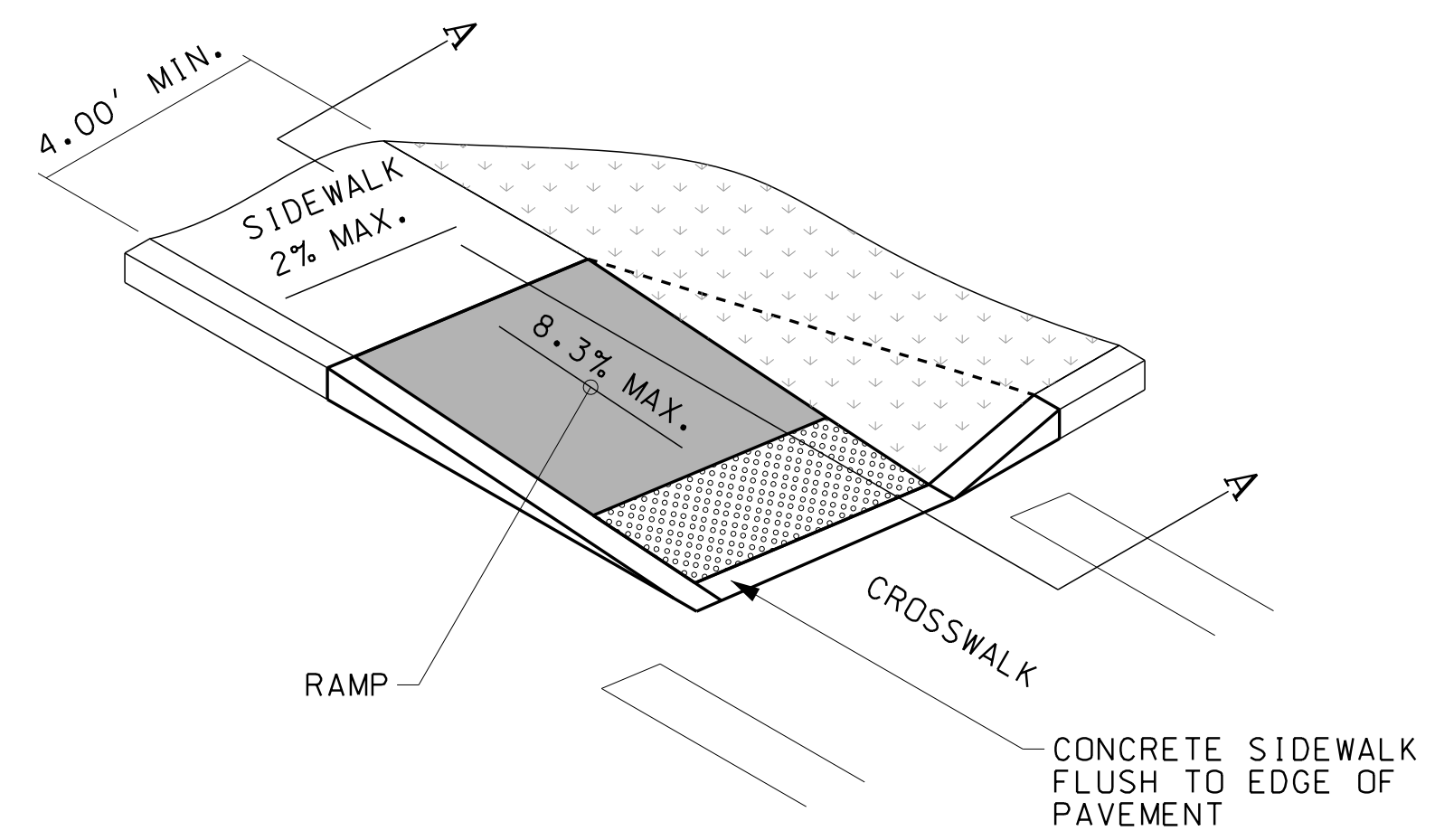
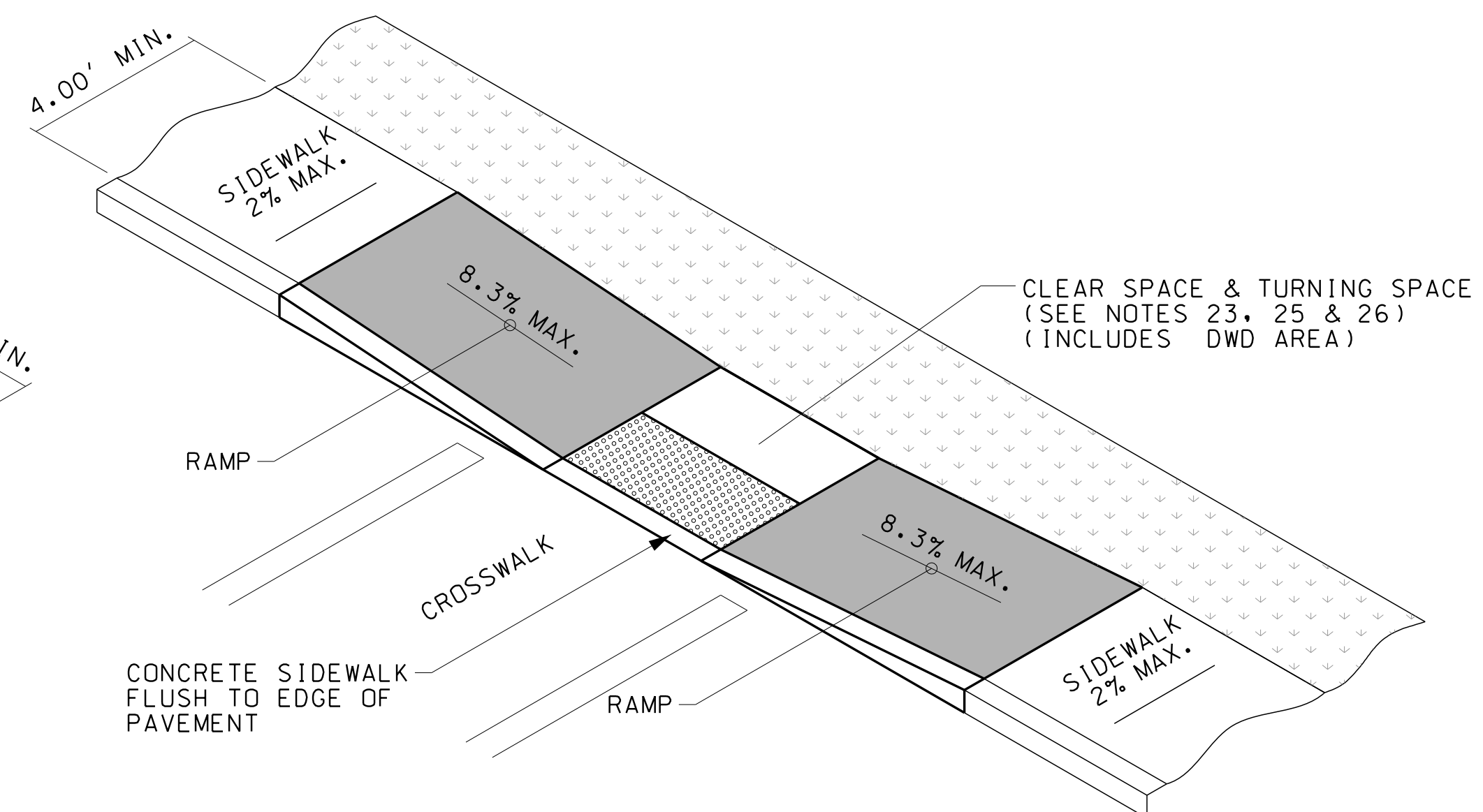
STATE OF NEW HAMPSHIRE					
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN					
SIDEWALK CURB RAMP DETAILS					
(SHEET 6 OF 9)					
REVISION DATE	MODEL	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
6-18-18	Curb-Ramp-6	1368crb_ramp_1_9	41368	22	112



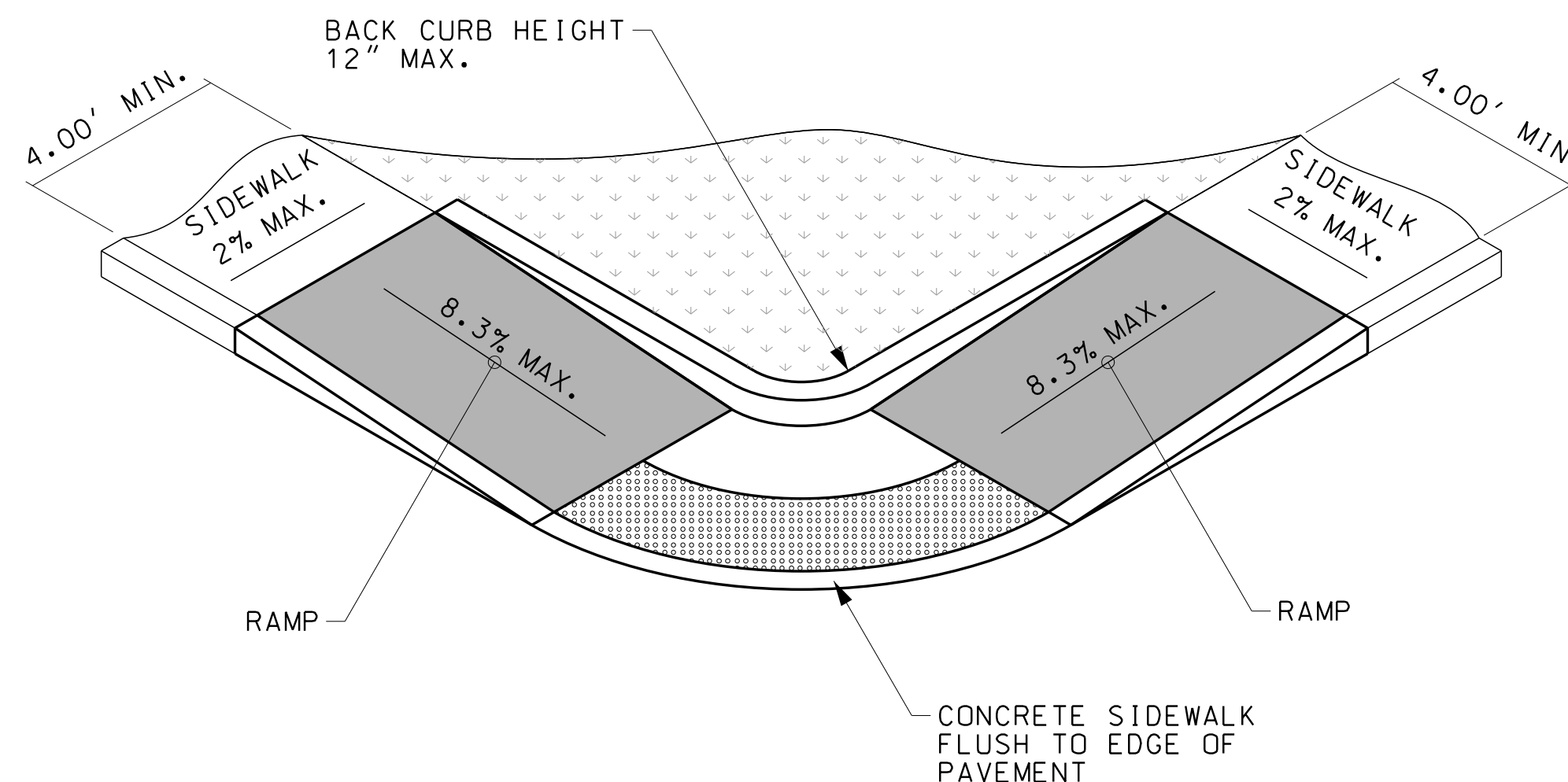
OPTION A
FLARED CONCRETE



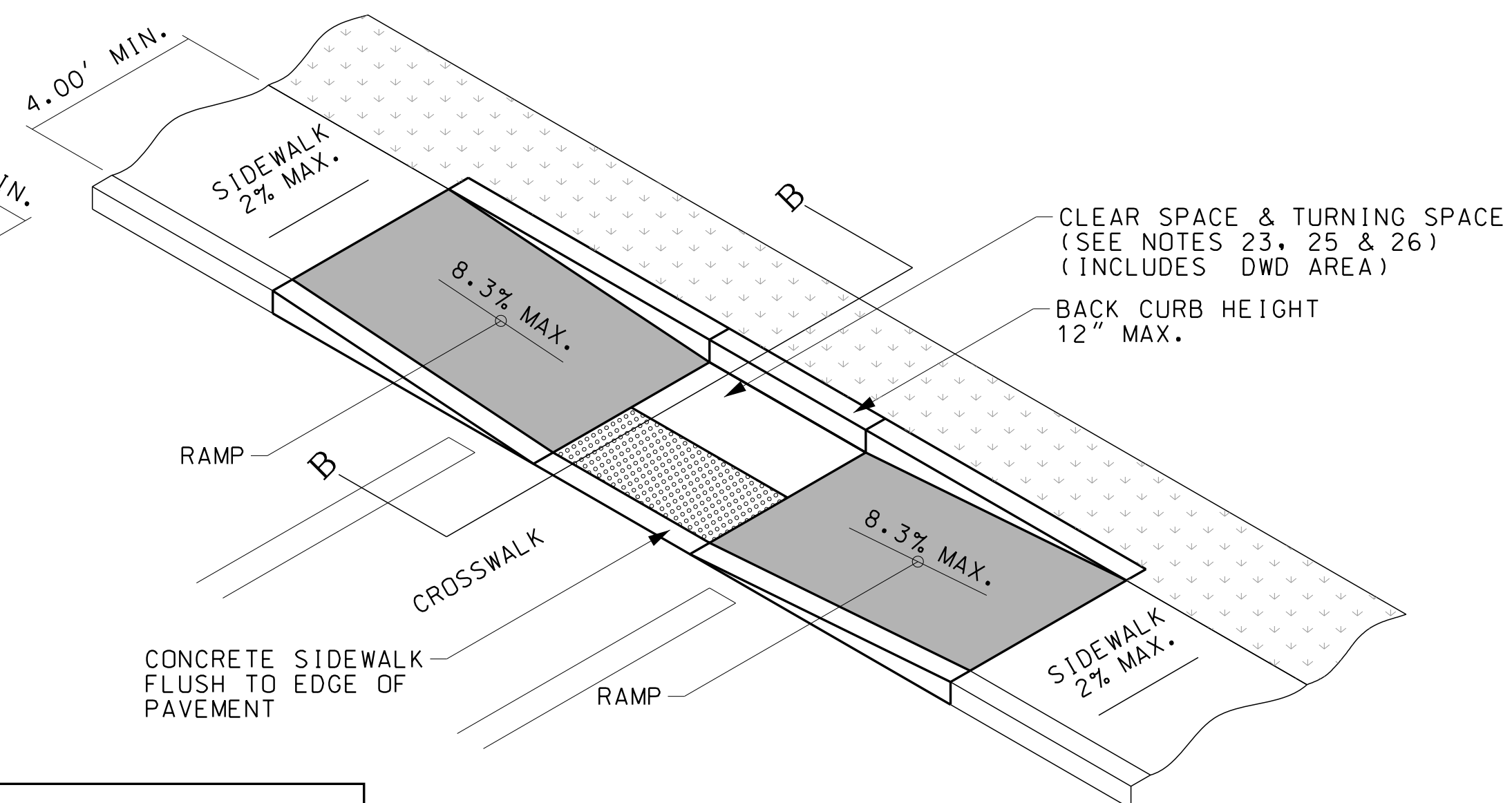
OPTION A
GRADED EARTH AND TURF



OPTION B
GRADED EARTH



OPTION B
BACK CURB



OPTION C
UNCURBED INTERSECTION

RAMP SIDE CONFIGURATIONS

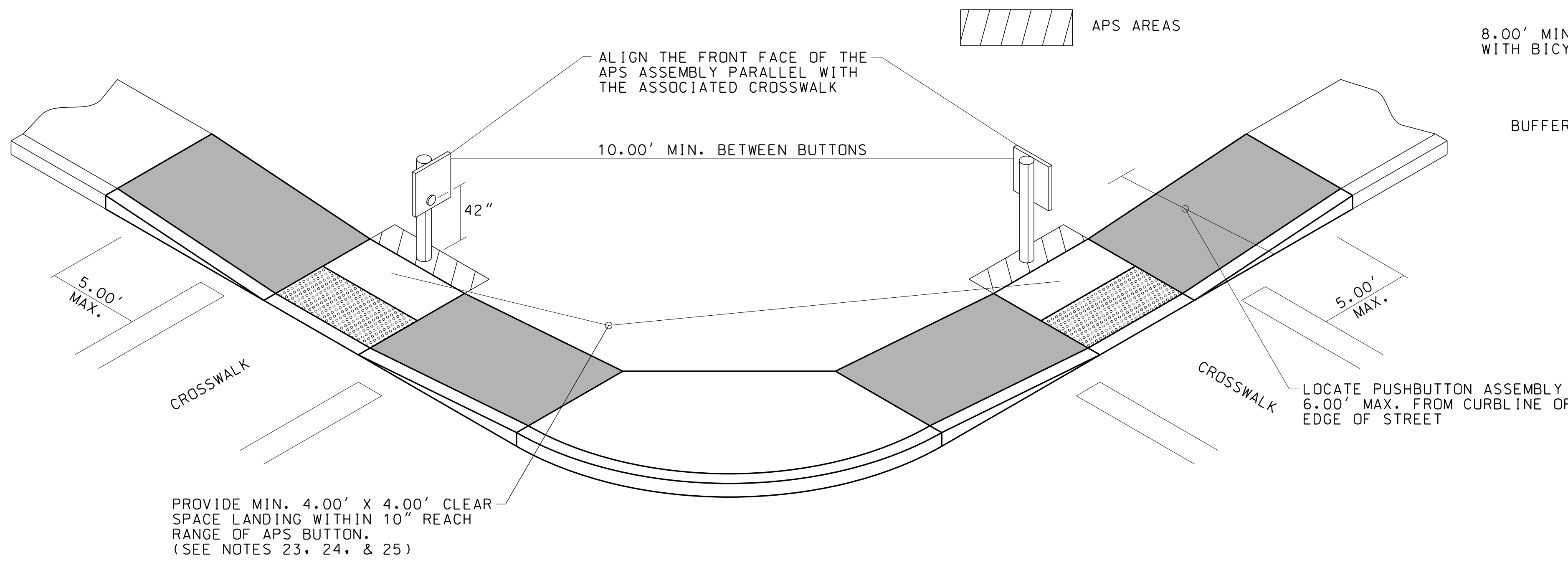
RAMP BACK TREATMENTS

NOTE:
ALL NOTES REFERENCED ON THIS SHEET CAN BE FOUND ON SIDEWALK CURB RAMP DETAILS, SHEET 1 OF 9.

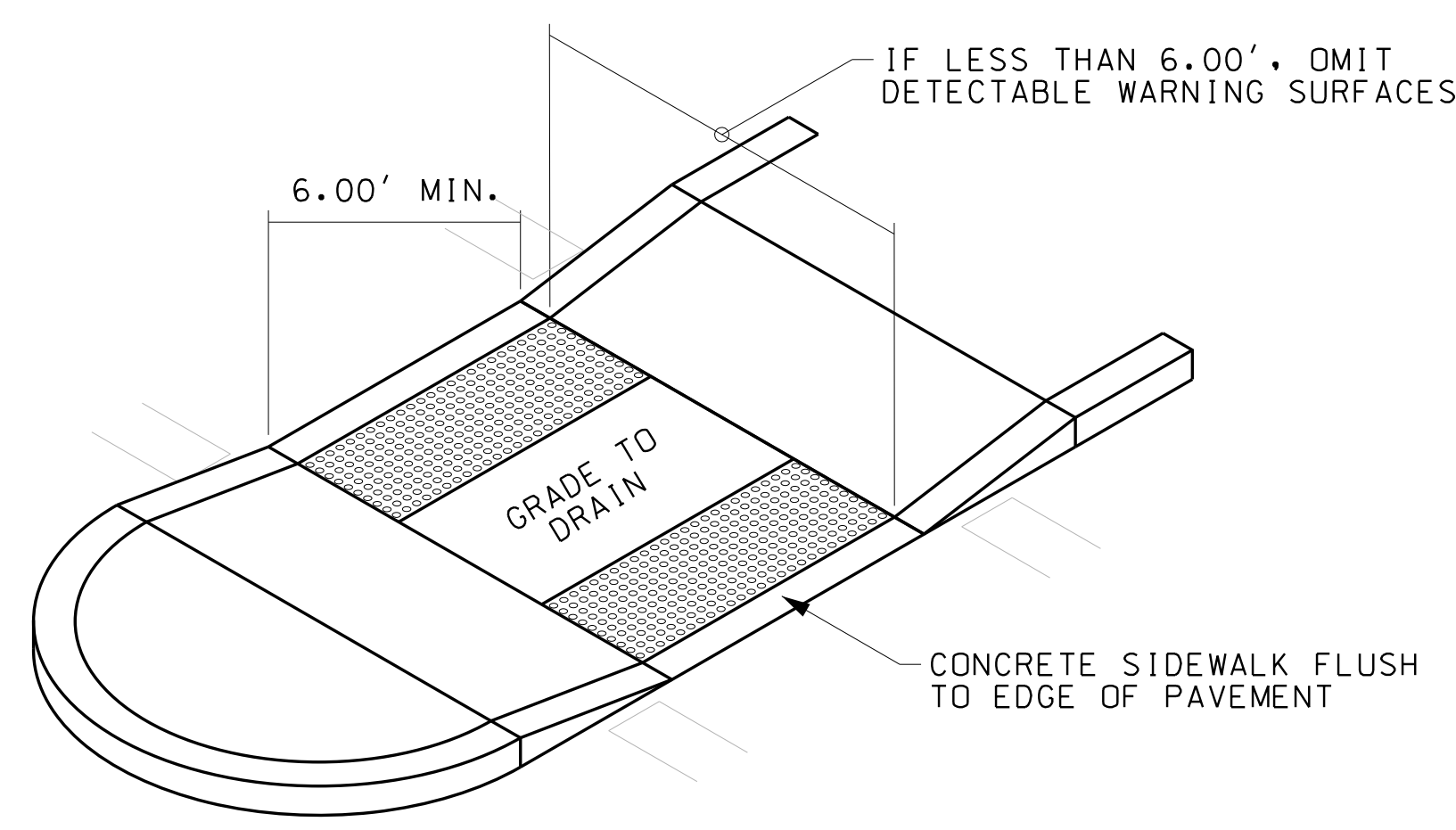
STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN
SIDEWALK CURB RAMP DETAILS
(SHEET 7 OF 9)

REVISION DATE	MODEL	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
6-18-18	Curb-Ramp-7	1368crb_ramp_1_9	41368	23	112

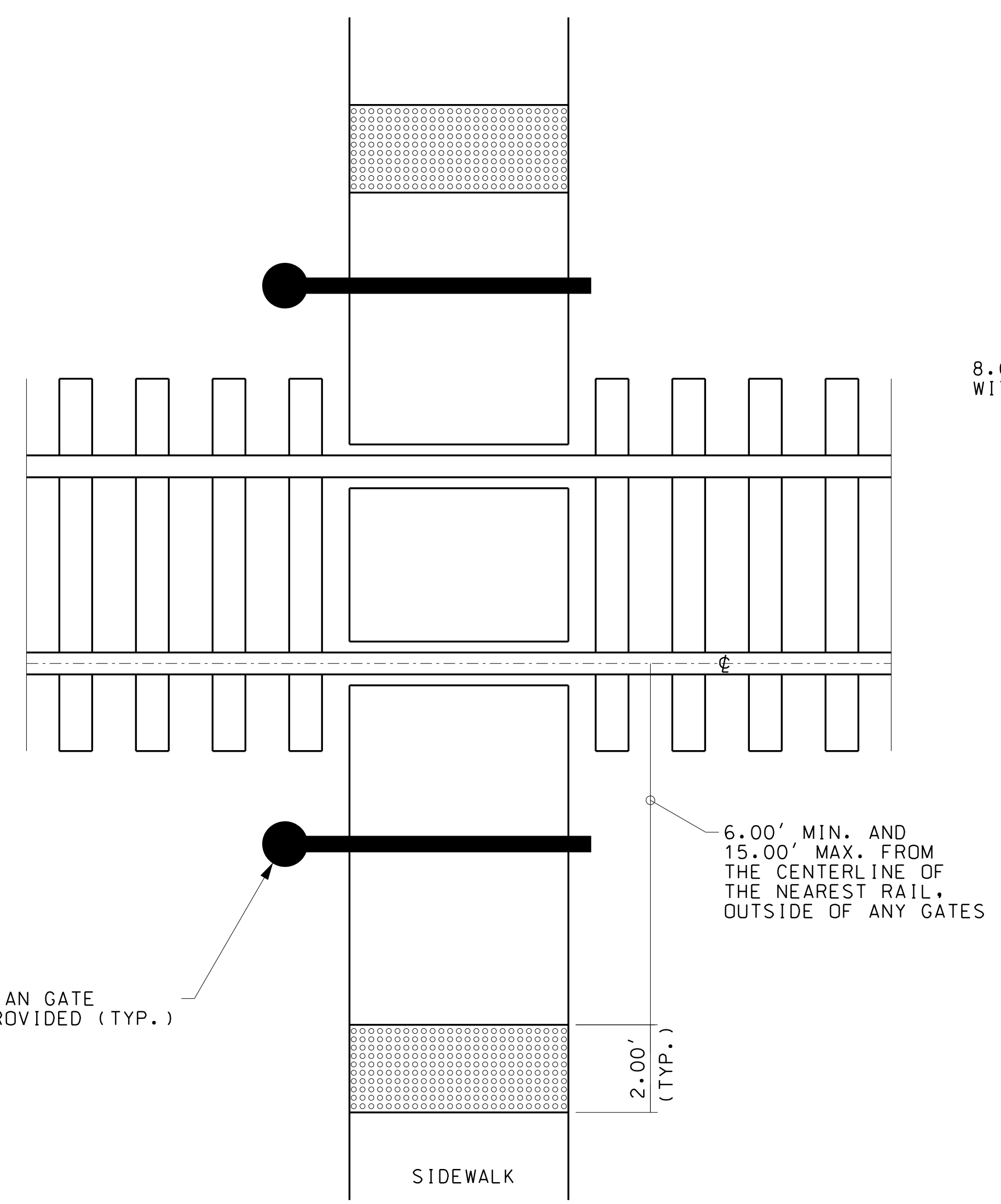
ENGINEER: BRIAN M. BRESLEND NO. 15117



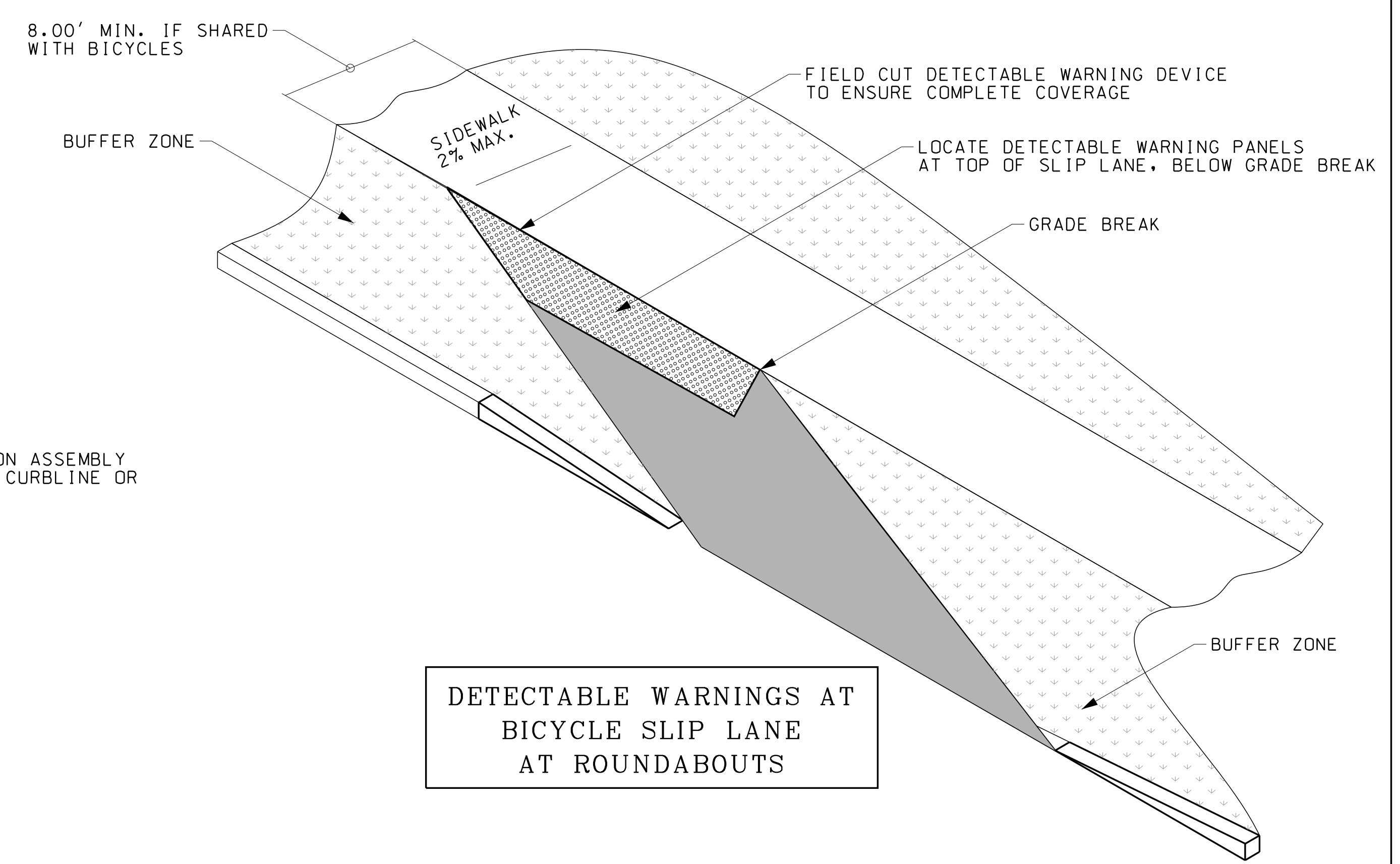
ACCESSIBLE PEDESTRIAN SIGNAL (APS)
PUSHBUTTON LOCATION



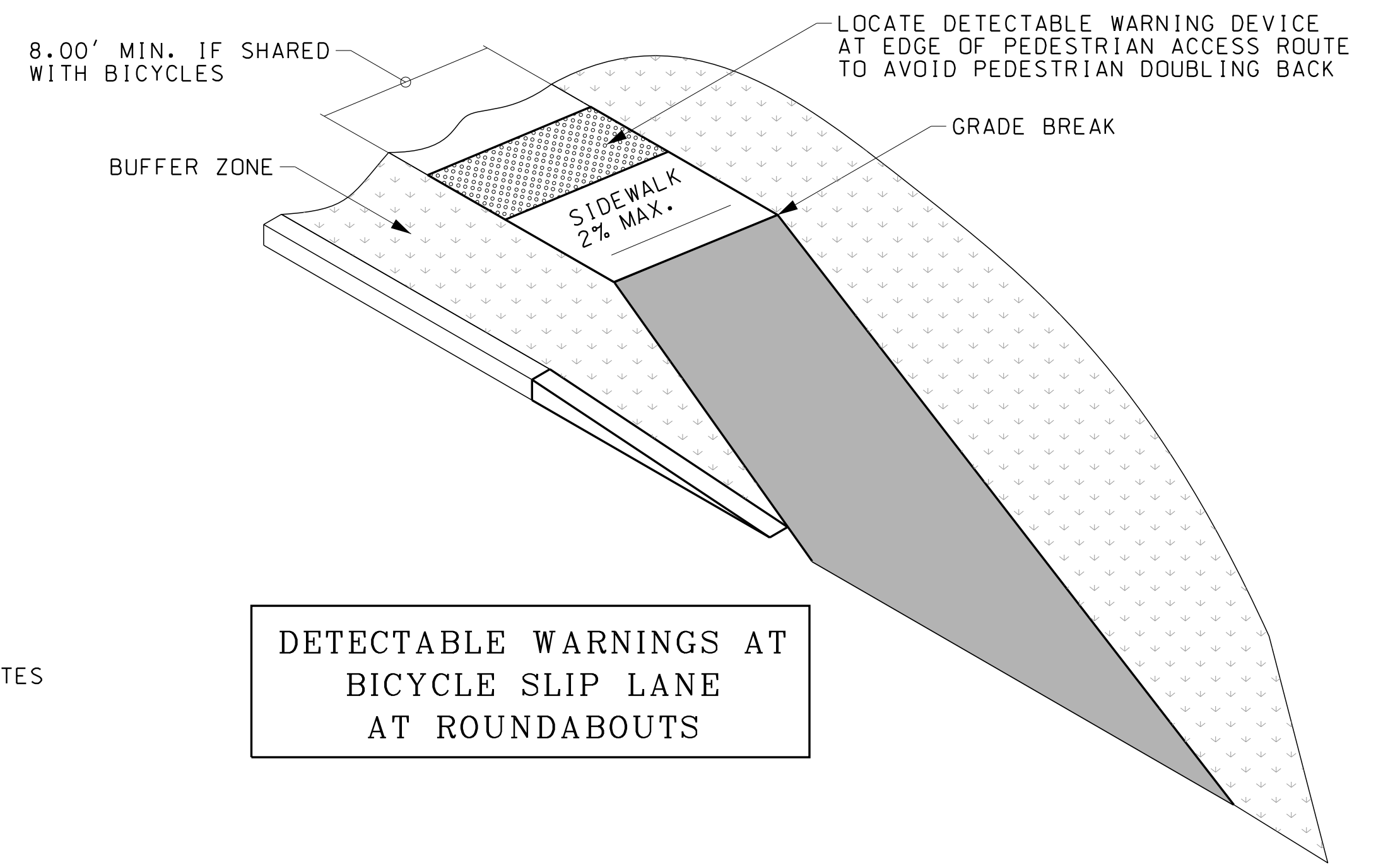
DETECTABLE WARNINGS AT
PEDESTRIAN REFUGE ISLANDS
NON-ELEVATED
CROSSING



DETECTABLE WARNINGS
AT RAILROAD CROSSING



DETECTABLE WARNINGS AT
BICYCLE SLIP LANE
AT ROUNDABOUTS



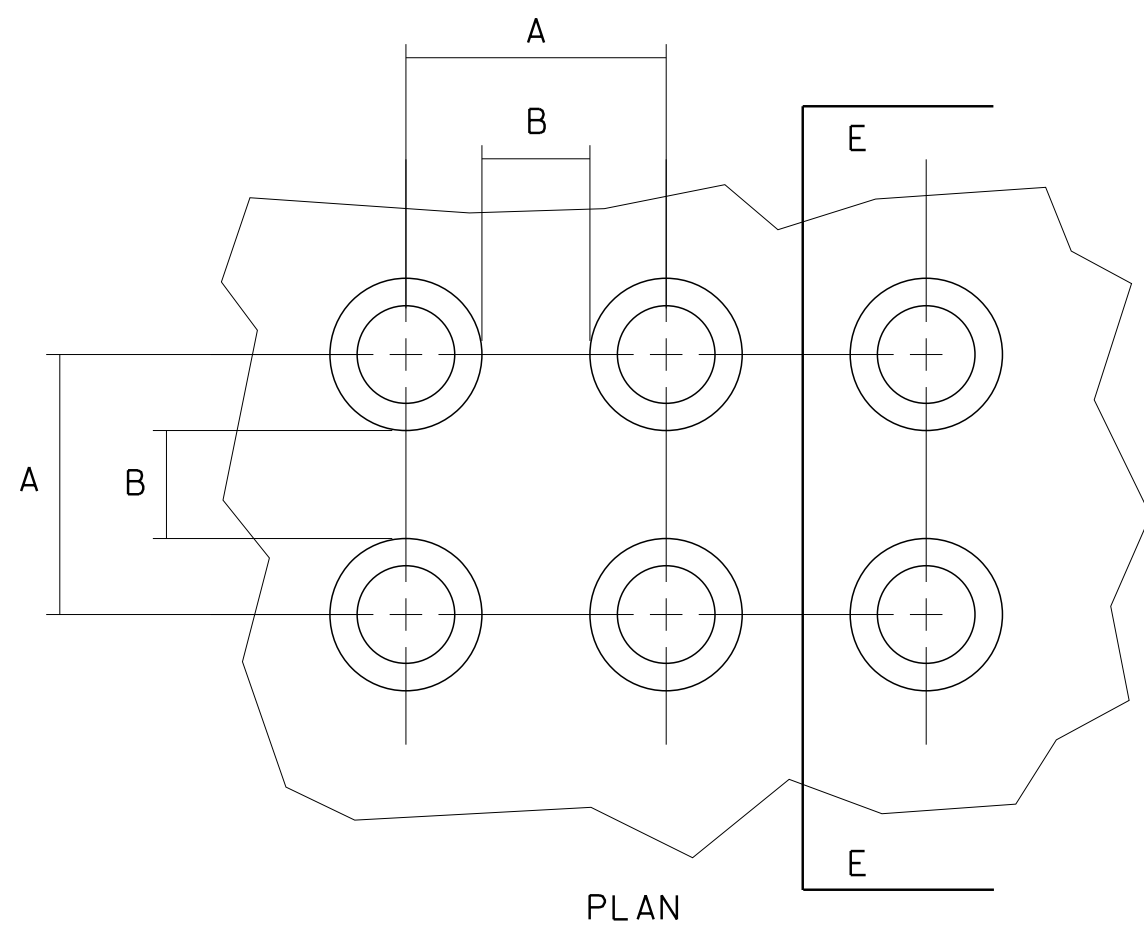
DETECTABLE WARNINGS AT
BICYCLE SLIP LANE
AT ROUNDABOUTS

ENGINEER: BRIAN M. BRESLEND NO. 15117

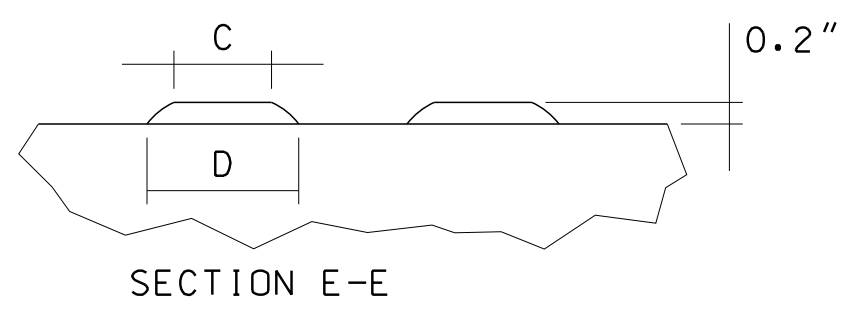
NOTE:
ALL NOTES REFERENCED ON THIS SHEET CAN BE FOUND ON SIDEWALK CURB RAMP DETAILS, SHEET 1 OF 9.

STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN
SIDEWALK CURB RAMP DETAILS
(SHEET 8 OF 9)

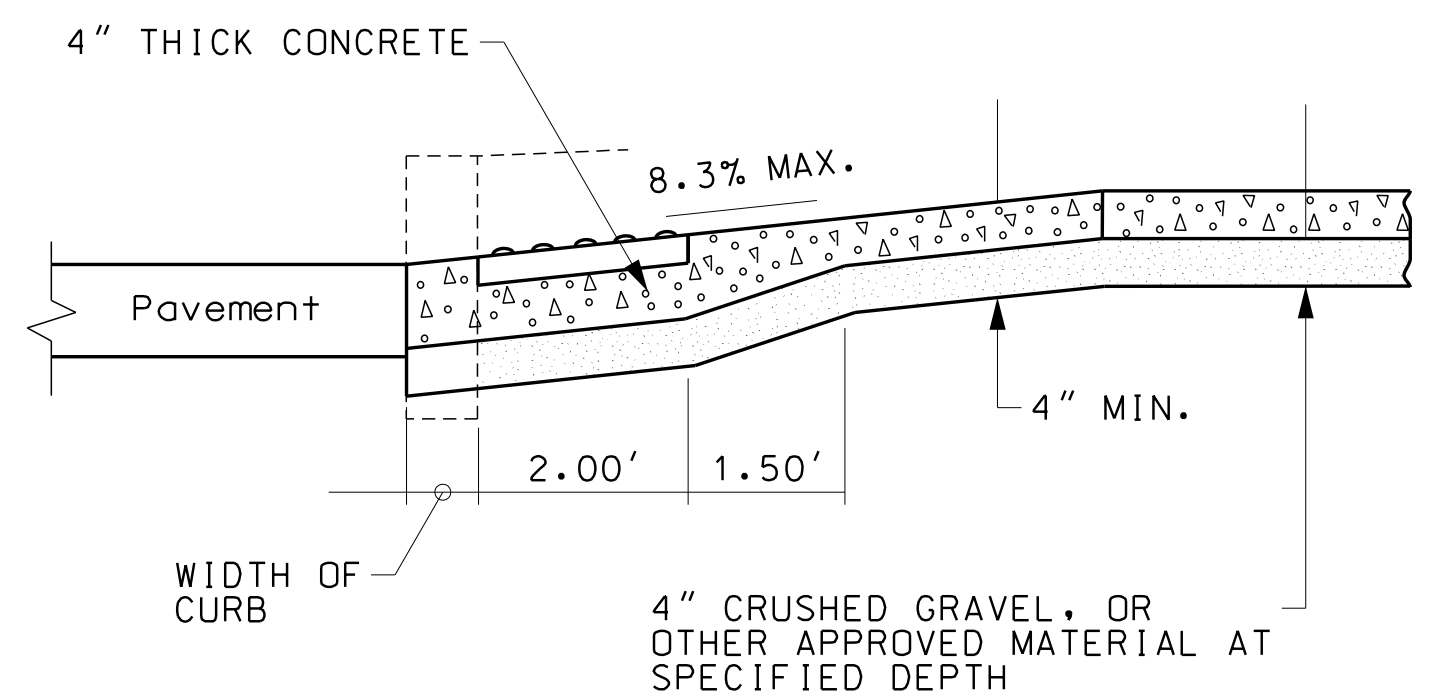
REVISION DATE	MODEL	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
6-18-18	Curb-Ramp-8	1368crb_ramp_1_9	41368	24	112



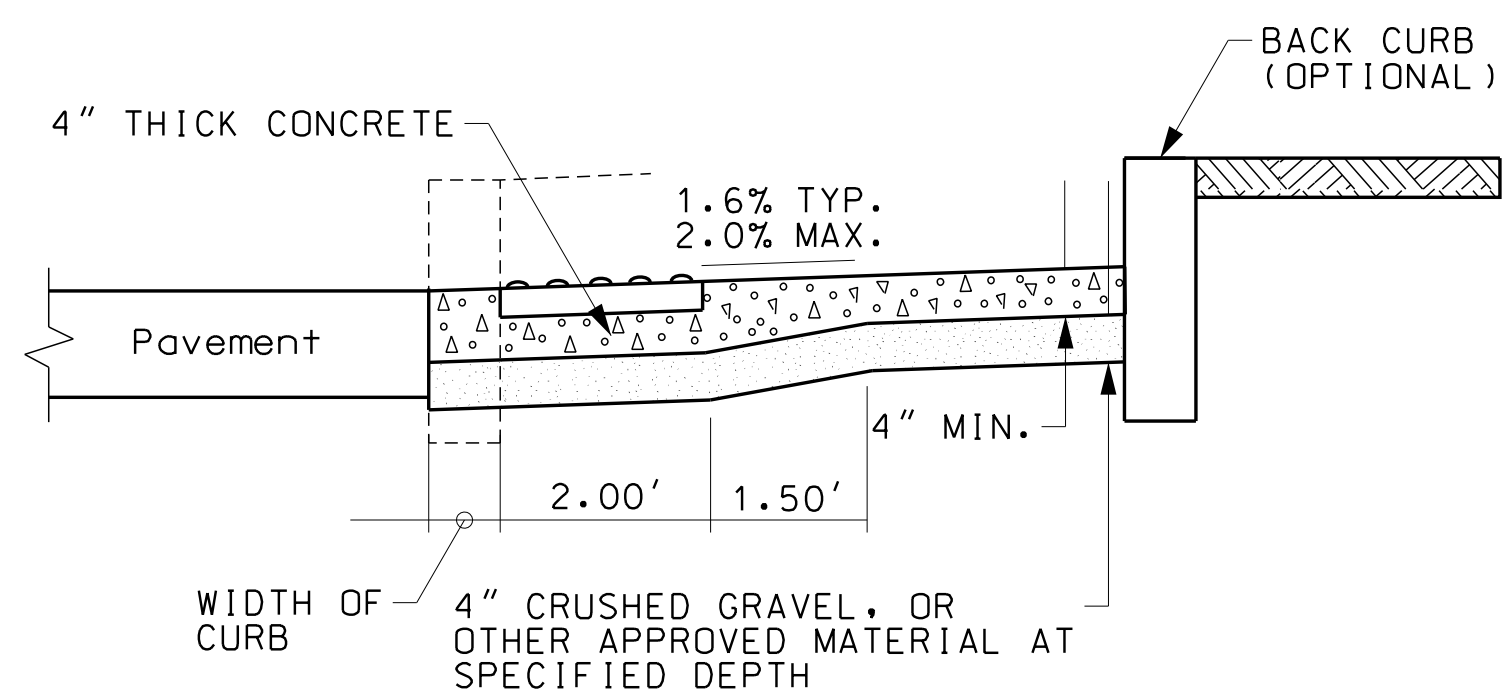
TRUNCATED DOME DIMENSIONS		
DIM.	MIN. (IN)	MAX. (IN)
A	1.6"	2.4"
B	0.65"	1.5"
C	50% - 65% OF D DIM.	
D	0.9"	1.4"



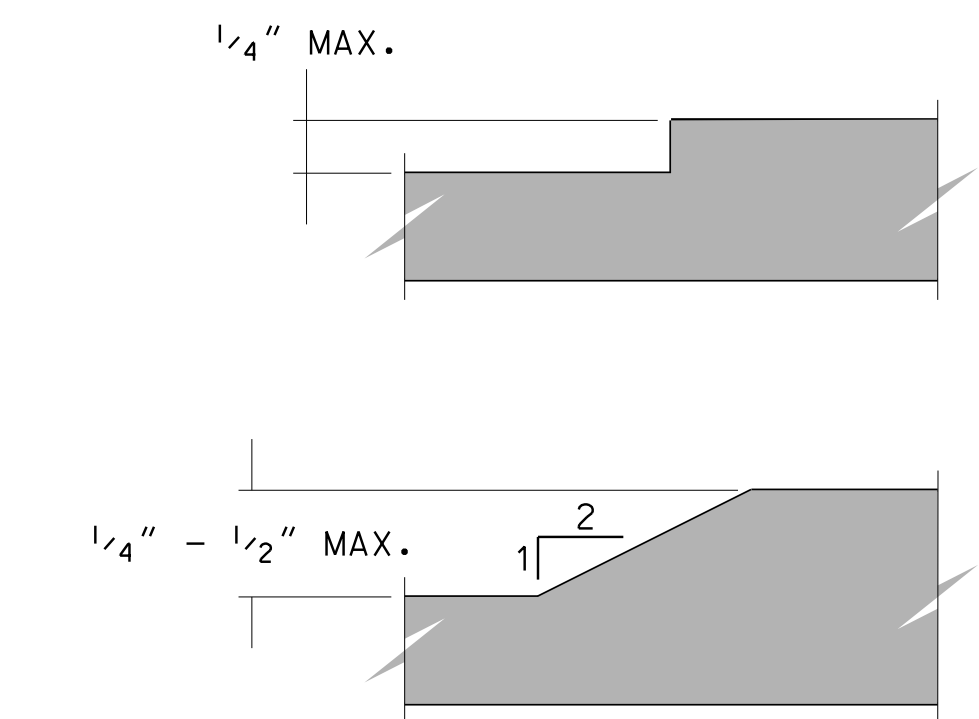
**DETECTABLE WARNING DEVICES (DWD)
TRUNCATED DOME DETAILS**



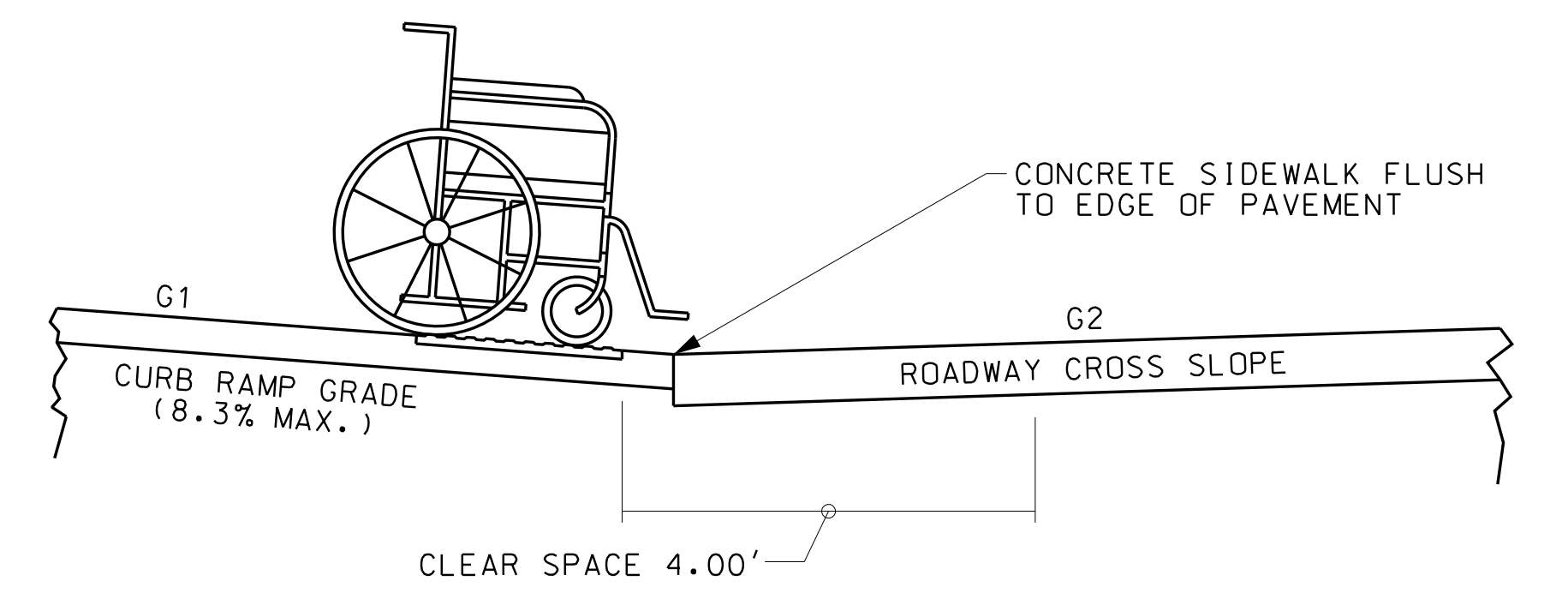
SECTION A-A
SEE SHEET 7 OF 9



SECTION B-B
SEE SHEET 7 OF 9

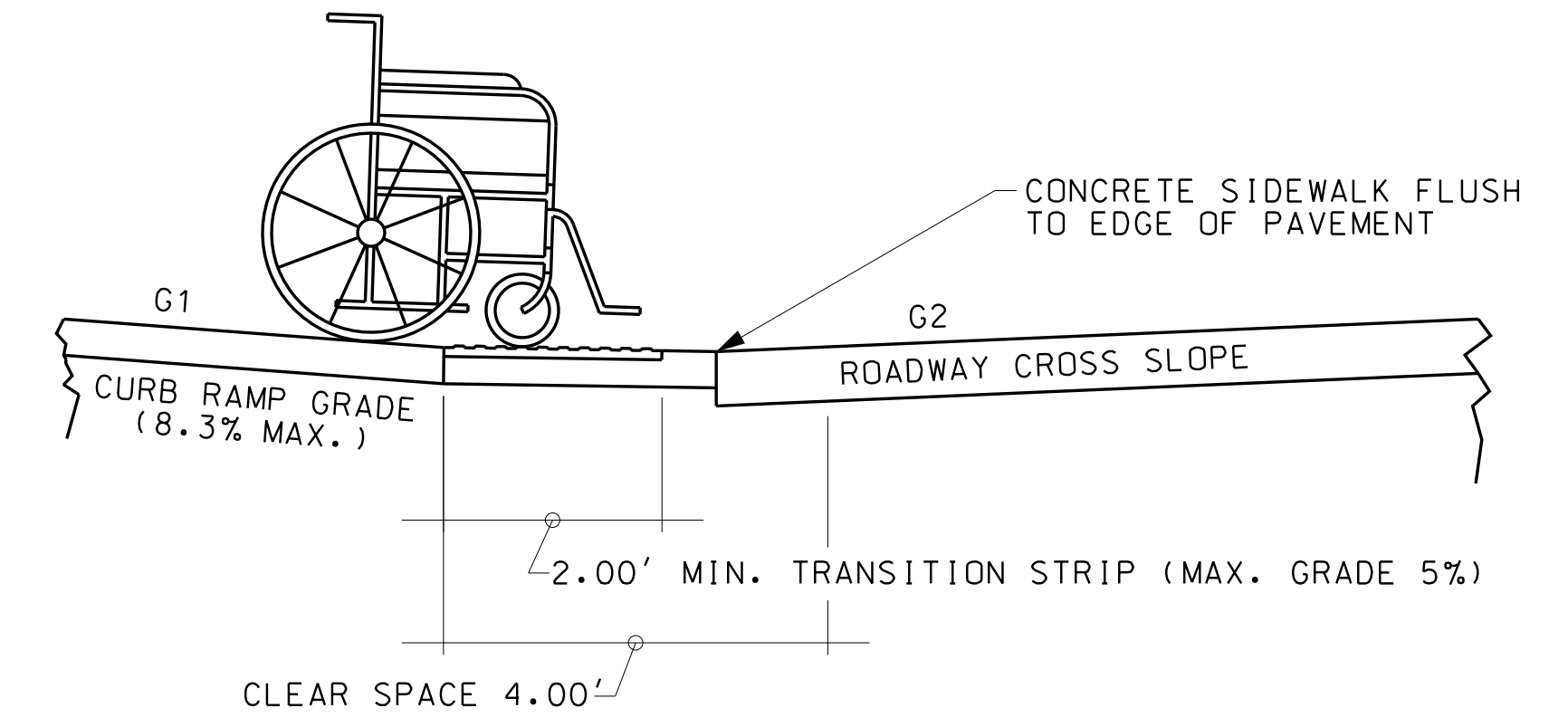


VERTICAL SURFACE DISCONTINUITIES
SEE NOTE 5



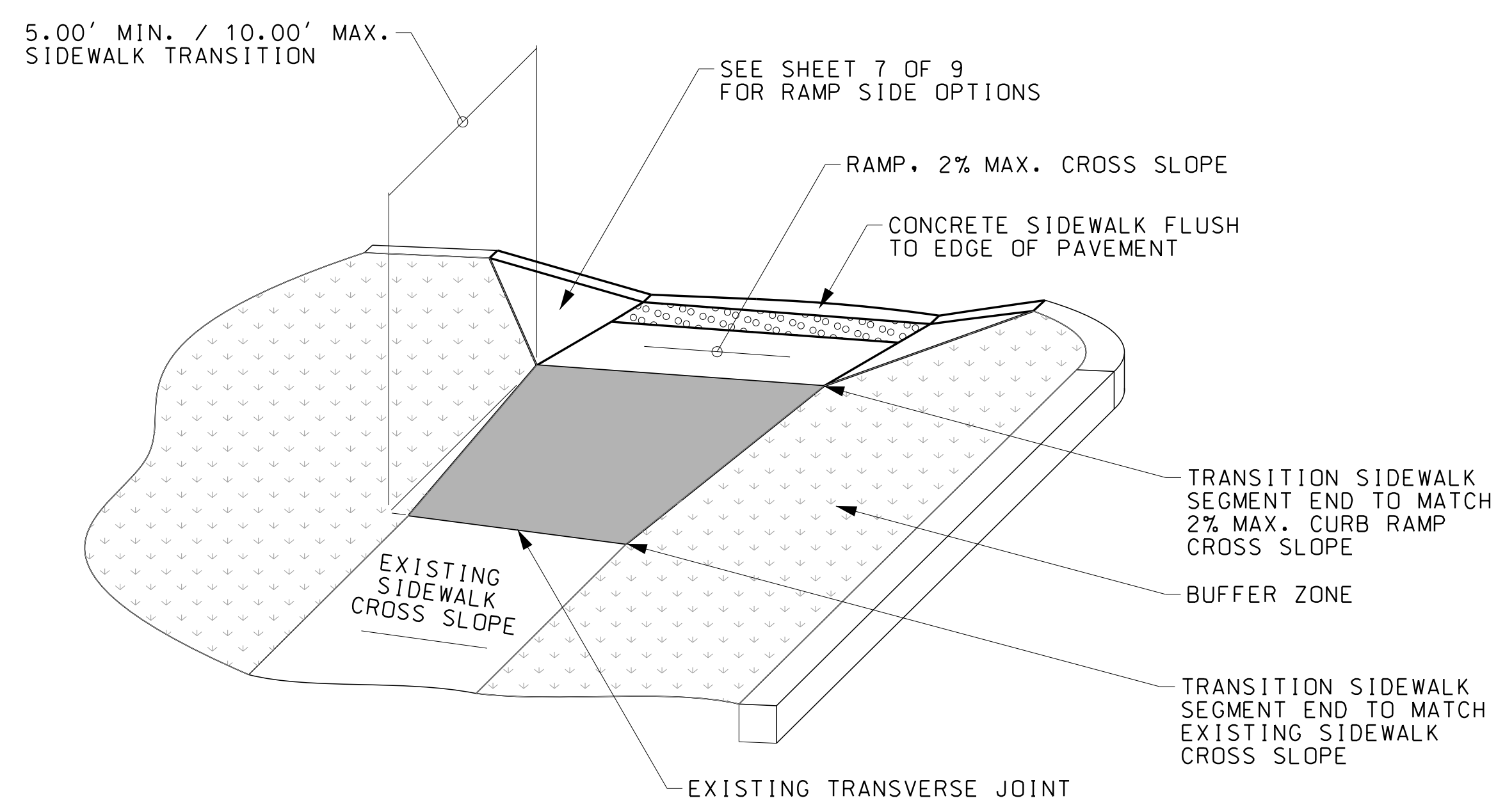
COUNTER SLOPE CONDITION 1

$A = G2 - G1$
ALGEBRAIC DIFFERENCE (A) BETWEEN ROADWAY CROSS SLOPE AND CURB RAMP GRADE IS LESS THAN 13.3%.



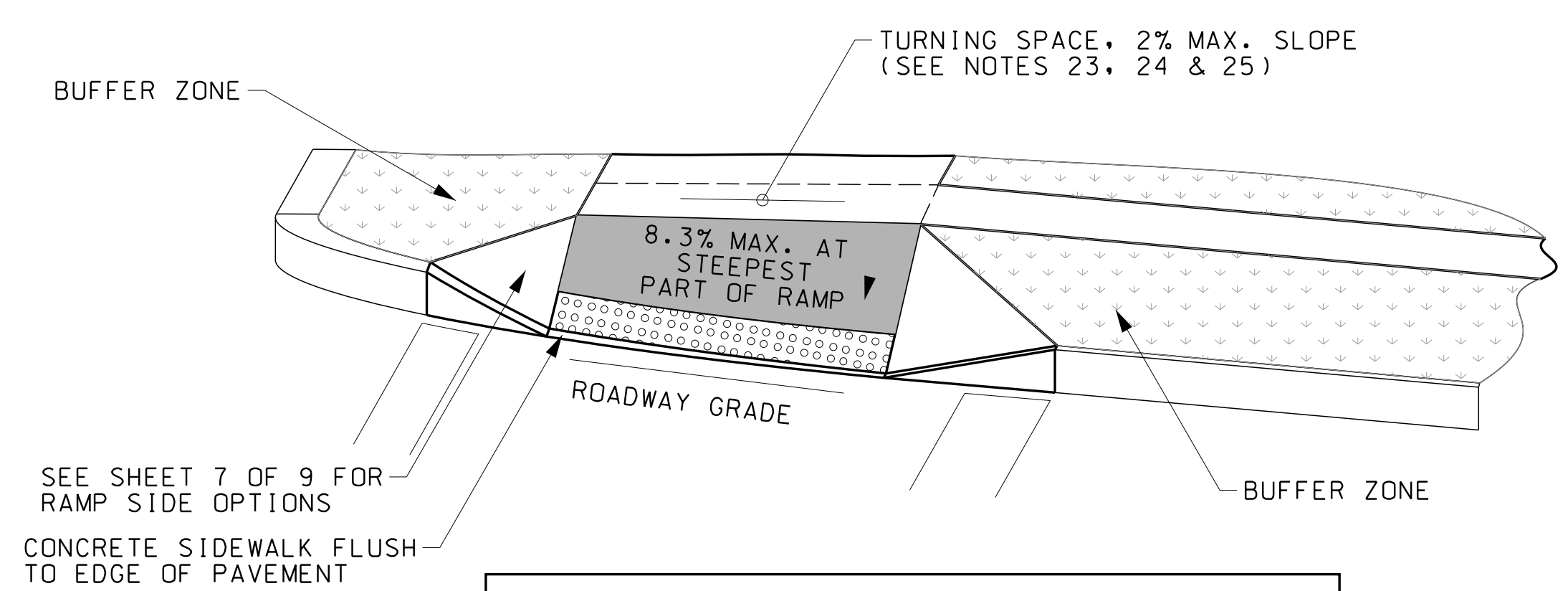
COUNTER SLOPE CONDITION 2

$A = G2 - G1$
ALGEBRAIC DIFFERENCE (A) BETWEEN ROADWAY SLOPE AND CURB RAMP GRADE IS GREATER THAN 13.3%. TRANSITION STRIP REQUIRED (MAX. GRADE 5%)



TRANSITION BETWEEN CURB RAMP AND EXISTING SIDEWALK

USE FOR CROSS SLOPE AND WIDTH TRANSITIONS



CURB RAMP CROSS SLOPE TRANSITION

REFER TO NOTE 20 FOR CROSS SLOPE REQUIREMENTS

ENGINEER: BRIAN M. BRESLEND NO. 15117

NOTE:
ALL NOTES REFERENCED ON THIS SHEET CAN BE FOUND ON SIDEWALK CURB RAMP DETAILS, SHEET 1 OF 9.

STATE OF NEW HAMPSHIRE					
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN					
SIDEWALK CURB RAMP DETAILS (SHEET 9 OF 9)					
REVISION DATE	MODEL	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
6-18-18	Curb-Ramp-9	1368crb_ramp_1_9	41368	25	112

SDR PROCESSED		DATE		DATE		DATE		DATE		DATE		DATE		DATE	
NEW DESIGN		OID		3/28/2023		3/28/2023		3/28/2023		3/28/2023		3/28/2023		3/28/2023	
SHEET CHECKED		BMB		BRIAN M. BRESLEND		NO. 15117		AS BUILT DETAILS							
REVISIONS AFTER PROPOSAL		STATION		STATION		STATION		STATION		STATION		STATION		STATION	
DESCRIPTION															

Element	Point TYPE	Point Number	Station	Northing	Easting	Radius	Length	Delta /Theta	Rotation Direction
WEST MAIN STREET									
Tangent	POB		100+00.00	222986.1292	917817.2351				
	P.C.		100+38.46	222980.6391	917855.2995				
Arc	P.C.		100+38.46	222980.6391	917855.2995	10000	677.52	3°52'54.91"	Left
	P.I.		103+77.35	222932.2606	918190.7196				
	C.C.			232878.2191	919282.8532				
	P.T.		107+15.98	222906.7011	918528.6454				
Tangent	P.T.		107+15.98	222906.7011	918528.6454				
	P.C.		112+57.62	222865.8505	919068.7388				
Arc	P.C.		112+57.62	222865.8505	919068.7388	900	355.14	22°36'31.63"	Right
	P.I.		114+37.53	222852.2816	919248.1359				
	C.C.			221968.4139	919000.8601				
	P.T.		116+12.76	222770.7886	919408.5302				
Tangent	P.T.		116+12.76	222770.7886	919408.5302				
	P.C.		118+35.30	222669.9841	919606.9332				
Arc	P.C.		118+35.30	222669.9841	919606.9332	2800	451.28	9°14'04.13"	Left
	P.I.		120+61.43	222567.5545	919808.5348				
	C.C.			225166.2609	920875.24				
	P.T.		122+86.58	222498.8044	920023.9611				
Tangent	P.T.		122+86.58	222498.8044	920023.9611				
	P.I.		124+22.56	222457.4618	920153.5068				
Tangent	P.I.		124+22.56	222457.4618	920153.5068				
	P.C.		125+58.55	222416.1192	920283.0525				
Arc	P.C.		125+58.55	222416.1192	920283.0525	2400	533.5	12°44'11.21"	Left
	P.I.		128+26.40	222334.6836	920538.2284				
	C.C.			224702.5105	921012.7201				
	P.T.		130+92.05	222311.5096	920805.0795				
Tangent	P.T.		130+92.05	222311.5096	920805.0795				
	P.C.		131+86.67	222303.3228	920899.351				
Arc	P.C.		131+86.67	222303.3228	920899.351	1100	423.08	22°02'12.35"	Left
	P.I.		134+00.86	222284.7922	921112.7325				
	C.C.			223399.1983	920994.5196				
	P.T.		136+09.75	222347.6765	921317.4777				
Tangent	P.T.		136+09.75	222347.6765	921317.4777				
	P.C.		140+42.12	222474.6182	921730.7881				
Arc	P.C.		140+42.12	222474.6182	921730.7881	850	461.24	31°05'27.61"	Left
	P.I.		142+78.57	222544.0404	921956.8203				
	C.C.			223287.1577	921481.2295				
	P.T.		145+03.36	222720.2127	922114.533				
Tangent	P.T.		145+03.36	222720.2127	922114.533				
	POE		147+12.33	222875.911	922253.917				

D&K NO. 324277



TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
HORIZONTAL ALIGNMENT TABLE			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368aligntable	41368	26	112

SDR PROCESSED
 NEW DESIGN
 SHEET CHECKED
 ENGINEER
 AS BUILT DETAILS
 DATE 3/28/2023
 DATE 3/28/2023
 DATE 15117
 NO. 15117
 BRIAN M. BRESLEND
 NO. 15117
 STATION
 STATION
 DATE
 NUMBER
 REVISIONS AFTER PROPOSAL
 DESCRIPTION

Element	Point Type	Northing	Easting	Radius	Length	Delta /Theta
Aligment Name: G-1						
Arc	P.C.	222916.8472	918092.7856	10	15.55	89°04'42.57"
	P.I.	222926.6137	918093.9895			
	C.C.	222915.6238	918102.7105			
	P.T.	222925.5671	918103.7741			
Tangent	P.T.	222925.5671	918103.7741	53.15		
	P.I.	222919.9140	918156.6230			
Tangent	P.I.	222919.9140	918156.6230	26.34		
	P.C.	222917.8450	918182.8862			
Arc	P.C.	222917.8450	918182.8862	10	16.01	91°44'18.80"
	P.I.	222917.0354	918193.1625			
	C.C.	222907.8759	918182.1008			
	P.T.	222906.7884	918192.0415			
Aligment Name: G-2						
Arc	P.C.	222903.3913	918242.2512	10	15.45	88°32'55.33"
	P.I.	222913.0886	918243.2628			
	C.C.	222902.3537	918252.1972			
	P.T.	222912.3228	918252.9826			
Tangent	P.T.	222912.3228	918252.9826	42.07		
	P.I.	222909.0185	918294.9273			
Arc	P.C.	222909.0185	918294.9273	10	15.90	91°05'48.14"
	P.I.	222908.2179	918305.0891			
	C.C.	222899.0494	918294.1419			
	P.T.	222898.0733	918304.0942			
Tangent	P.T.	222898.0733	918304.0942	2.32		
	P.O.E.	222895.7636	918303.8677			
Aligment Name: G-3						
Tangent	POB	222892.5289	918335.1526	3.53		
	P.C.	222896.0390	918335.4857			
Arc	P.C.	222896.0390	918335.4857	10	15.52	88°56'57.89"
	P.I.	222905.8133	918336.4134			
	C.C.	222895.0942	918345.4410			
	P.T.	222905.0651	918346.2031			
Tangent	P.T.	222905.0651	918346.2031	6.60		
	P.I.	222904.5623	918352.7803			
Arc	P.C.	222904.5623	918352.7803	10	15.86	90°53'55.01"
	P.I.	222903.7882	918362.9088			
	C.C.	222894.5914	918352.0182			
	P.T.	222893.6730	918361.9759			

Element	Point Type	Northing	Easting	Radius	Length	Delta /Theta
Aligment Name: G-4						
Arc	P.C.	222897.0043	918379.5060	5.5	8.58	89°19'57.19"
	P.I.	222902.4185	918379.9960			
	C.C.	222896.5086	918384.9836			
	P.T.	222901.9916	918385.4156			
Tangent	P.T.	222901.9916	918385.4156	15.91		
	P.C.	222900.7423	918401.2751			
Arc	P.C.	222900.7423	918401.2751	5.5	8.69	90°30'49.01"
	P.I.	222900.3065	918406.8075			
	C.C.	222895.2593	918400.8432			
	P.T.	222894.7783	918406.3221			
Aligment Name: G-5						
Tangent	POB	222885.6751	918440.3287	2.20		
	P.C.	222887.8608	918440.5553			
Arc	P.C.	222887.8608	918440.5553	10	15.51	88°50'31.74"
	P.I.	222897.6085	918441.5661			
	C.C.	222886.8294	918450.5020			
	P.T.	222896.7949	918451.3322			
Tangent	P.T.	222896.7949	918451.3322	24.83		
	P.C.	222894.7644	918476.0763			
Arc	P.C.	222894.7644	918476.0763	10	15.69	89°53'59.97"
	P.I.	222893.9604	918486.0265			
	C.C.	222884.7969	918475.2708			
	P.T.	222884.0089	918485.2397			
Tangent	P.T.	222884.0089	918485.2397	3.76		
	POE	222880.2571	918484.9560			
Aligment Name: G-6						
Tangent	POB	222879.0760	918499.8966	3.76		
	P.C.	222882.8267	918500.1931			
Arc	P.C.	222882.8267	918500.1931	10	15.69	89°53'59.97"
	P.I.	222892.7782	918500.9798			
	C.C.	222882.0386	918510.162			
	P.T.	222892.0089	918510.9327			
Tangent	P.T.	222892.0089	918510.9327	30.25		
	P.C.	222889.7235	918541.0913			
Arc	P.C.	222889.7235	918541.0913	5	7.86	90°04'41.94"
	P.I.	222889.3527	918546.0844			
	C.C.	222884.7372	918540.721			
	P.T.	222884.3601	918545.7067			
Tangent	P.T.	222884.3601	918545.7067	8.76		
	POE	222875.6257	918545.0461			

Element	Point Type	Northing	Easting	Radius	Length	Delta /Theta
Aligment Name: G-7						
Tangent	POB	222875.1081	918575.0926	7.00		
	P.C.	222882.0881	918575.6206			
Arc	P.C.	222882.0881	918575.6206	5	7.85	90°00'00.00"
	P.I.	222887.0739	918575.9977			
	C.C.	222881.7110	918580.6063			
	P.T.	222886.6968	918580.9835			
Tangent	P.T.	222886.6968	918580.9835	45.40		
	P.C.	222883.2729	918626.2516			
Arc	P.C.	222883.2729	918626.2516	5	7.85	90°00'00.00"
	P.I.	222882.8958	918631.2374			
	C.C.	222878.2871	918625.8745			
	P.T.	222877.9100	918630.8603			
Tangent	P.T.	222877.9100	918630.8603	7.00		
	POE	222870.9300	918630.3323			
Aligment Name: G-8						
Tangent	POB	222868.6673	918660.2469	6.94		
	P.C.	222875.5912	918660.6831			
Arc	P.C.	222875.5912	918660.6831	5	7.92	90°43'15.28"
	P.I.	222880.6445	918661.0014			
	C.C.	222875.2769	918665.6732			
	P.T.	222880.2627	918666.0503			
Tangent	P.T.	222880.2627	918666.0503	115.50		
	P.C.	222871.5518	918781.2178			
Arc	P.C.	222871.5518	918781.2178	5	7.85	90°00'00.00"
	P.I.	222871.1747	918786.2035			
	C.C.	222866.5661	918780.8407			
	P.T.	222866.1890	918785.8264			
Tangent	P.T.	222866.1890	918785.8264	7.00		
	POE	222859.2089	918785.2985			

D&K NO. 324277



TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
CURB ALIGNMENT 1			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368curb_algm	41368	27	112

SDR PROCESSED DATE 3/28/2023
 NEW DESIGN DATE 3/28/2023
 SHEET CHECKED BMB DATE 3/28/2023
 ENGINEER BRIAN M. BRESLEND NO. 15117
 AS BUILT DETAILS DATE

Element	Point Type	Northing	Easting	Radius	Length	Delta /Theta
Aligment Name: G-15						
Tangent	POB	222598.8927	919680.1989		15.45	
	P.I.	222592.6186	919694.3207			
Tangent	P.I.	222593.5325	919694.7267		3.36	
	P.C.	222590.4582	919693.3608			
Arc	P.C.	222590.4582	919693.3608	3.00	9.42	180°00'00.00"
		NaN	NaN			
	C.C.	222589.2401	919696.1024			
	P.T.	222588.0220	919698.8440			
Tangent	P.T.	222588.0220	919698.8440		3.36	
	P.I.	222591.0963	919700.2099			
Tangent	P.I.	222590.1825	919699.8038		18.81	
	P.I.	222582.5470	919716.9895			
Tangent	P.I.	222582.547	919716.9895		37.09	
	P.I.	222568.1443	919751.1688			
Tangent	P.I.	222568.1443	919751.1688		10.3	
	POE	222564.1972	919760.6851			

Element	Point Type	Northing	Easting	Radius	Length	Delta /Theta
Aligment Name: G-16						
Arc	P.C.	222550.7026	919817.0731	10	11.02	63°08'28.00"
	P.I.	222554.7600	919821.6881			
	C.C.	222543.1923	919823.6758			
	P.T.	222552.4773	919827.3892			
Arc	P.R.C.	222552.4773	919827.3892	2816	33.29	0°40'38.28"
	P.I.	222546.2808	919842.8459			
	C.C.	225166.2609	920875.2400			
	P.T.	222540.2705	919858.3672			
Tangent	P.T.	222540.2705	919858.3672		11.93	
	P.I.	222533.3356	919868.0702			
Tangent	P.I.	222533.3356	919868.0702		2.50	
	P.I.	222532.4186	919870.3960			
Tangent	P.I.	222532.4186	919870.3960		13.13	
	P.C.	222530.7095	919883.4111			
Arc	P.C.	222530.7095	919883.4111	2816	48.63	0°59'21.81"
	P.I.	222522.1457	919906.1672			
	C.C.	225166.2609	920875.2400			
	P.R.C.	222513.9762	919929.0678			
Arc	P.R.C.	222513.9762	919929.0678	15	23.52	89°50'53.55"
	P.I.	222508.9495	919943.1583			
	C.C.	222499.8483	919924.0278			
	P.T.	222494.8457	919938.1690			

Element	Point Type	Northing	Easting	Radius	Length	Delta /Theta
Aligment Name: G-17						
Tangent	POB	222476.2954	919999.2781		9.85	
	P.C.	222479.2962	919989.8922			
Arc	P.C.	222479.2962	919989.8922	3.5	7.24	118°29'43.34"
	P.I.	222481.1239	919984.3009			
	C.C.	222482.6230	919990.9797			
	P.C.C.	222485.1659	919988.5747			
Arc	P.C.C.	222485.1659	919988.5747	15	16	61°06'09.34"
	P.I.	222491.2495	919995.0073			
	C.C.	222474.2678	919998.8816			
	P.T.	222488.5577	920003.4420			
Tangent	P.T.	222488.5577	920003.4420		98.49	
	P.C.	222458.6131	920097.2726			
Arc	P.C.	222458.6131	920097.2726	15	16.09	61°27'30.24"
	P.I.	222455.9022	920105.7672			
	C.C.	222444.3231	920092.7122			
	P.C.C.	222447.1446	920107.4444			
Arc	P.C.C.	222447.1446	920107.4444	3.5	7.24	118°34'18.76'
	P.I.	222441.3584	920108.5526			
	C.C.	222446.4863	920104.0069			
	P.T.	222443.1525	920102.9411			

TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
CURB ALIGNMENT 3			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368curb_algm	41368	29	112

D&K NO. 324277



SDR PROCESSED
 NEW DESIGN
 SHEET CHECKED
 ENGINEER
 AS BUILT DETAILS

3/28/2023
 3/28/2023
 BMB
 BRIAN M. BRESLEND
 NO. 15117

STATION
 STATION
 DATE
 NUMBER

REVISIONS AFTER PROPOSAL
 DESCRIPTION

Element	Point Type	Northing	Easting	Radius	Length	Delta /Theta
Aligment Name: G-18						
Arc	P.C.	222425.6584	920157.7758	3.5	7.24	118°34'18.76"
	P.I.	222427.4496	920152.1633			
	C.C.	222428.9928	920158.8399			
	P.C.C.	222431.5219	920156.4206			
Arc	P.C.C.	222431.5219	920156.4206	15	16.08	61°25'41.24"
	P.I.	222437.6818	920162.8601			
	C.C.	222420.6826	920166.7892			
	P.T.	222434.9725	920171.3496			
Tangent	P.T.	222434.9725	920171.3496	7.00		
	P.I.	222432.8443	920178.0182			
Tangent	P.I.	222432.8443	920178.0182	10.79		
	P.I.	222427.7157	920187.5104			
Tangent	P.I.	222427.7157	920187.5104	4.00		
	P.I.	222426.4996	920191.3210			
Tangent	P.I.	222426.4996	920191.3210	10.20		
	P.I.	222425.3646	920201.4557			
Tangent	P.I.	222425.3646	920201.4557	80.55		
	P.C.	222400.8766	920278.1880			
Arc	P.C.	222400.8766	920278.1880	2416	49.46	1°10'22.27"
	P.I.	222393.3584	920301.7463			
	C.C.	224702.5105	921012.7201			
	P.R.C.	222386.3239	920325.4535			
Arc	P.R.C.	222386.3239	920325.4535	15	19.60	74°52'43.15"
	P.I.	222383.0569	920336.4637			
	C.C.	222371.9436	920321.1865			
	P.C.C.	222371.5757	920336.1820			
Arc	P.C.C.	222371.5757	920336.1820	3.5	6.48	106°06'08.54"
	P.I.	222366.9238	920336.0678			
	C.C.	222371.6615	920332.6830			
	P.T.	222368.3237	920331.6301			
Tangent	P.T.	222368.3237	920331.6301	3.11		
	POE	222369.2605	920328.6603			

Element	Point Type	Northing	Easting	Radius	Length	Delta /Theta
Aligment Name: G-19						
Arc	P.C.	222354.3349	920383.7470	15	23.47	89°38'47.28"
	P.I.	222368.7350	920387.6042			
	C.C.	222350.4539	920398.2363			
	P.R.C.	222364.9668	920402.0278			
Arc	P.R.C.	222364.9668	920402.0278	2416	26.48	0°37'40.52"
	P.I.	222361.6203	920414.8369			
	C.C.	224702.5105	921012.7201			
	P.R.C.	222358.4145	920427.6818			
Arc	P.R.C.	222358.4145	920427.6818	10	15.67	89°45'49.77"
	P.I.	222356.0029	920437.3443			
	C.C.	222348.7121	920425.2603			
	P.T.	222346.3306	920434.9726			
Aligment Name: G-20						
Tangent	POB	222339.0100	920456.7981	2.02		
	P.C.	222340.9731	920457.2589			
Arc	P.C.	222340.9731	920457.2589	10	15.67	89°47'14.79"
	P.I.	222350.6724	920459.5361			
	C.C.	222338.6875	920466.9942			
	P.R.C.	222348.4312	920469.2437			
Arc	P.R.C.	222348.4312	920469.2437	2416	50.17	1°11'23.16"
	P.I.	222342.7883	920493.6862			
	C.C.	224702.5105	921012.7201			
	P.R.C.	222337.6541	920518.2407			
Arc	P.R.C.	222337.6541	920518.2407	10	15.67	89°45'49.77"
	P.I.	222335.6158	920527.9887			
	C.C.	222327.8658	920516.1940			
	P.T.	222325.8594	920525.9906			
Tangent	P.T.	222325.8594	920525.9906	2.02		
	POE	222323.8799	920525.5852			

Element	Point Type	Northing	Easting	Radius	Length	Delta /Theta
Aligment Name: G-21						
Tangent	POB	222314.4885	920573.9325	2.02		
	P.C.	222316.4758	920574.2976			
Arc	P.C.	222316.4758	920574.2976	10	15.67	89°45'49.77"
	P.I.	222326.2707	920576.0974			
	C.C.	222314.6686	920584.1330			
	P.R.C.	222324.5113	920585.8996			
Arc	P.R.C.	222324.5113	920585.8996	2416	47.12	1°07'02.54"
	P.I.	222320.3493	920609.0880			
	C.C.	224702.5105	921012.7201			
	P.R.C.	222316.6402	920632.3532			
Arc	P.R.C.	222316.6402	920632.3532	10	16.36	93°43'22.80"
	P.I.	222314.9601	920642.8920			
	C.C.	222306.7650	920630.7788			
	P.T.	222304.5527	920640.5310			
Tangent	P.T.	222304.5527	920640.5310	2.34		
	POE	222302.2748	920640.0143			
Aligment Name: G-22						
Tangent	POB	222300.2916	920649.6574	4.86		
	P.C.	222304.9621	920651.0002			
Arc	P.C.	222304.9621	920651.0002	10	14.37	82°18'19.85"
	P.I.	222313.3617	920653.4150			
	C.C.	222302.1991	920660.6109			
	P.R.C.	222312.0932	920662.0622			
Arc	P.R.C.	222312.0932	920662.0622	2416	107.84	2°33'26.81"
	P.I.	222304.2659	920715.4203			
	C.C.	224702.5105	921012.7201			
	P.R.C.	222298.8274	920769.0745			
Arc	P.R.C.	222298.8274	920769.0745	10	11.02	63°09'02.92"
	P.I.	222298.2075	920775.1893			
	C.C.	222288.8783	920768.0660			
	P.T.	222292.4720	920777.3980			

D&K NO. 324277



TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
CURB ALIGNMENT 4			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368curb_algm	41368	30	112

SDR PROCESSED
 NEW DESIGN
 SHEET CHECKED
 ENGINEER
 AS BUILT DETAILS

DATE
 DATE
 DATE
 DATE
 NO. 15117

3/28/2023
 3/28/2023

BMB
 BRIAN M. BRESLEND

STATION
 STATION
 STATION

REVISIONS AFTER PROPOSAL
 DESCRIPTION

Element	Point Type	Northing	Easting	Radius	Length	Delta /Theta
Aligment Name: G-33						
Arc	P.C.	222535.7809	921922.9493	10	11.10	63°35'27.17"
	P.I.	222541.9599	921922.4489			
	C.C.	222536.5882	921932.9167			
	P.R.C.	222545.1563	921927.7605			
Arc	P.R.C.	222545.1563	921927.7605	866	43.44	2°52'25.61"
	P.I.	222556.3570	921946.3726			
	C.C.	223287.1577	921481.2295			
	P.R.C.	222568.4767	921964.3998			
Arc	P.R.C.	222568.4767	921964.3998	10	10.99	62°57'50.01"
	P.I.	222571.8933	921969.4818			
	C.C.	222560.1778	921969.9792			
	P.T.	222568.9197	921974.8350			
Aligment Name: G-34						
Arc	P.C.	222578.8412	921988.9696	10	10.99	62°57'50.01"
	P.I.	222584.8864	921987.9923			
	C.C.	222580.4372	921998.8414			
	P.R.C.	222588.5048	921992.9326			
Arc	P.R.C.	222588.5048	921992.9326	866	48.15	3°11'09.08"
	P.I.	222602.7347	922012.3615			
	C.C.	223287.1577	921481.2295			
	P.R.C.	222618.0225	922030.9694			
Arc	P.R.C.	222618.0225	922030.9694	5.5	8.62	89°49'10.16"
	P.I.	222621.5029	922035.2058			
	C.C.	222613.7728	922034.4609			
	P.T.	222617.2776	922038.6995			

Element	Point Type	Northing	Easting	Radius	Length	Delta /Theta
Aligment Name: G-35						
Arc	P.C.	222628.9447	922052.4016	5.5	8.60	89°38'18.26"
	P.I.	222633.0726	922048.8196			
	C.C.	222632.5494	922056.5557			
	P.R.C.	222636.6806	922052.9248			
Arc	P.R.C.	222636.6806	922052.9248	866	103.58	6°51'09.79"
	P.I.	222670.9095	922091.8706			
	C.C.	223287.1577	921481.2295			
	P.T.	222709.5408	922126.4540			
Tangent	P.T.	222709.5408	922126.4540		11.64	
	POE	222718.2138	922134.2183			
Aligment Name: G:36						
Arc	P.C.	222734.0140	922095.2887	10	13.23	75°46'49.48"
	P.I.	222730.4067	922102.1842			
	C.C.	222742.8748	922099.9241			
	P.T.	222736.2048	922107.3748			
Tangent	P.T.	222736.2048	922107.3748		67.47	
	P.C.	222786.4768	922152.3792			
Arc	P.C.	222786.4768	922152.3792	10	11.04	63°15'22.74"
	P.I.	222791.0655	922156.4871			
	C.C.	222793.1468	922144.9285			
	P.T.	222796.7989	922154.2378			
Aligment Name: G-37						
Arc	P.C.	222809.5137	922165.6203	10	11.04	63°15'22.74"
	P.I.	222807.9102	922171.5667			
	C.C.	222819.1688	922168.2240			
	P.T.	222812.4989	922175.6746			
Tangent	P.T.	222812.4989	922175.6746		7.24	
	P.C.	222817.8924	922180.5030			
Arc	P.C.	222817.8924	922180.5030	10	11.21	64°12'03.56"
	P.I.	222822.5662	922184.6871			
	C.C.	222824.5623	922173.0523			
	P.T.	222828.3674	922182.3001			

D&K NO. 324277



TOWN OF HILLSBOROUGH, NEW HAMPSHIRE

CURB ALIGNMENT 6

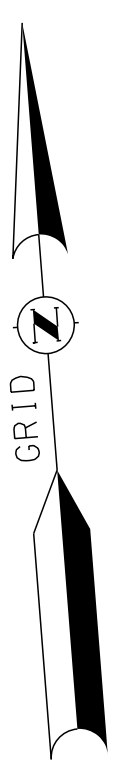
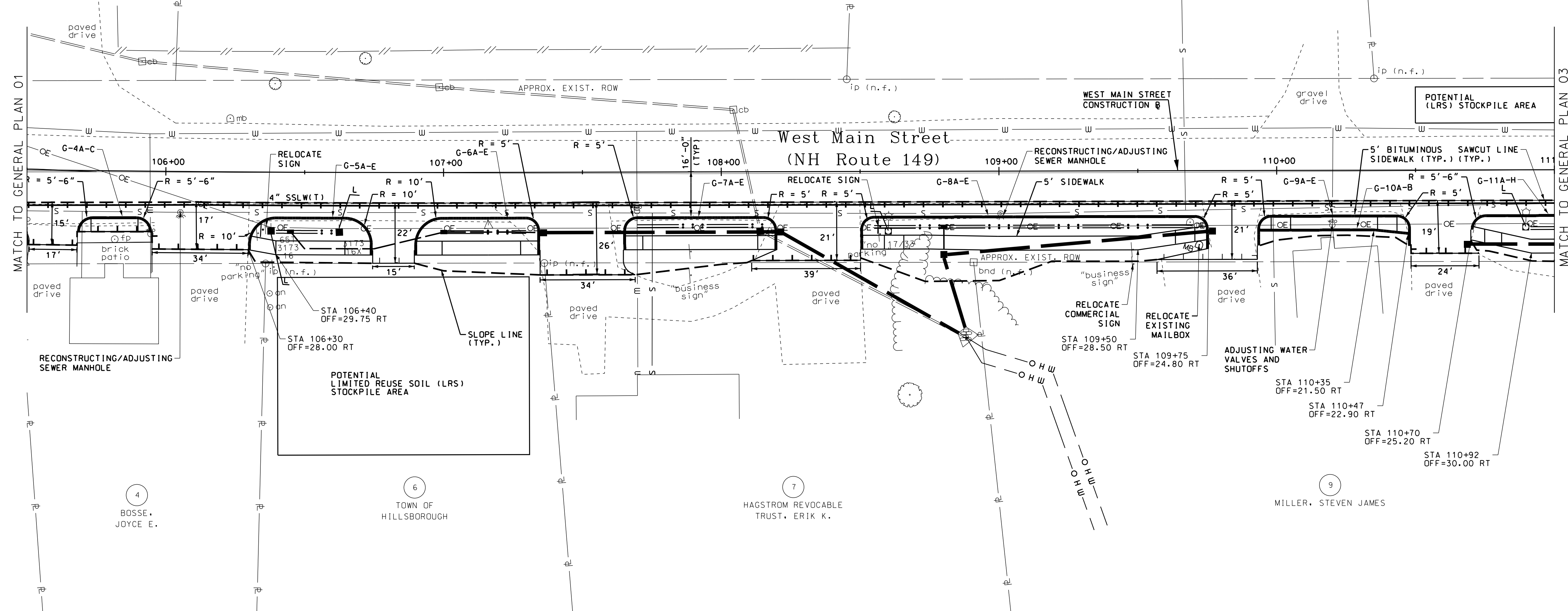
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368curb_algm	41368	32	112

REVISIONS AFTER PROPOSAL

NUMBER	DATE	STATION	DESCRIPTION

SDR PROCESSED	DATE	
NEW DESIGN	DATE	3/28/2023
SHEET CHECKED	DATE	3/28/2023
ENGINEER	NO.	15117
AS BUILT DETAILS	DATE	

CURB RAMPS			
STATION	POS.	TYPE	NOTE
105+75	RT	2	NO. DET. WARNING SURFACE
105+90	RT	2	NO. DET. WARNING SURFACE
106+44	RT	2	NO. DET. WARNING SURFACE
106+69	RT	2	NO. DET. WARNING SURFACE
107+02	RT	2	NO. DET. WARNING SURFACE
107+29	RT	2	NO. DET. WARNING SURFACE
107+65	RT	2	NO. DET. WARNING SURFACE
108+15	RT	2	NO. DET. WARNING SURFACE
108+61	RT	1	NO. DET. WARNING SURFACE
109+67	RT	1	NO. DET. WARNING SURFACE
109+99	RT	1	NO. DET. WARNING SURFACE
110+38	RT	1	NO. DET. WARNING SURFACE
110+72	RT	1	NO. DET. WARNING SURFACE

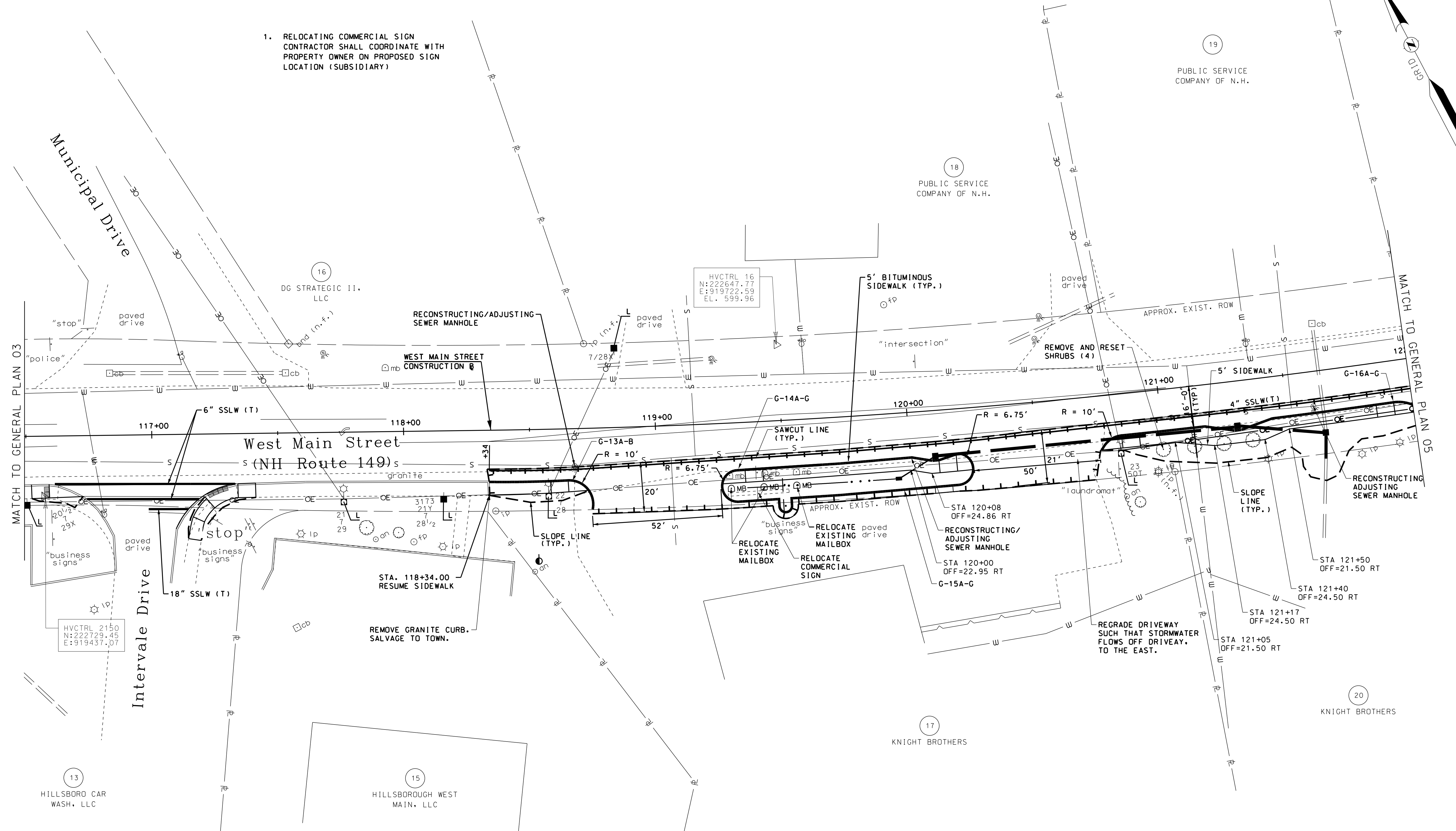


D&K NO. 324277

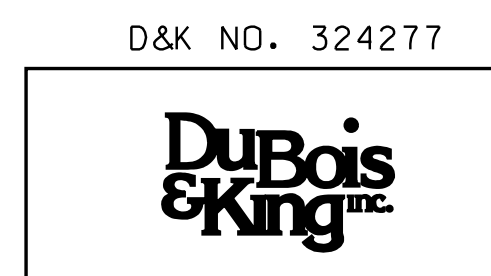
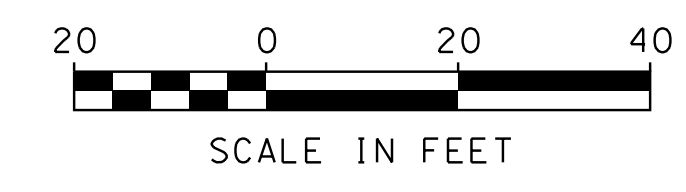


TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
GENERAL PLAN 02			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368genplans	41368	34	112

SDR PROCESSED	DATE	DESCRIPTION
NEW DESIGN	3/28/2023	GNC/TAM
SHEET CHECKED	3/28/2023	BMB
ENGINEER	15117	BRIAN M. BRESLEND
NO.		
AS BUILT DETAILS		



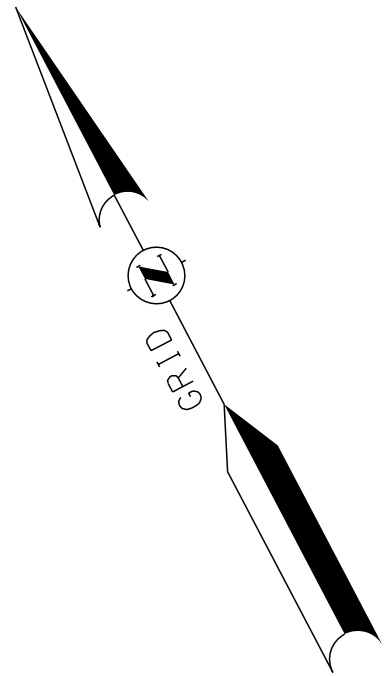
CURB RAMPS			
STATION	POS	TYPE	NOTE
118+62	RT	1	NO DET. WARNING SURFACE
119+30	RT	3	NO DET. WARNING SURFACE
120+84	RT	1	NO DET. WARNING SURFACE
121+93	RT	1	NO DET. WARNING SURFACE



TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
GENERAL PLAN 04			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368genplans	41368	36	112

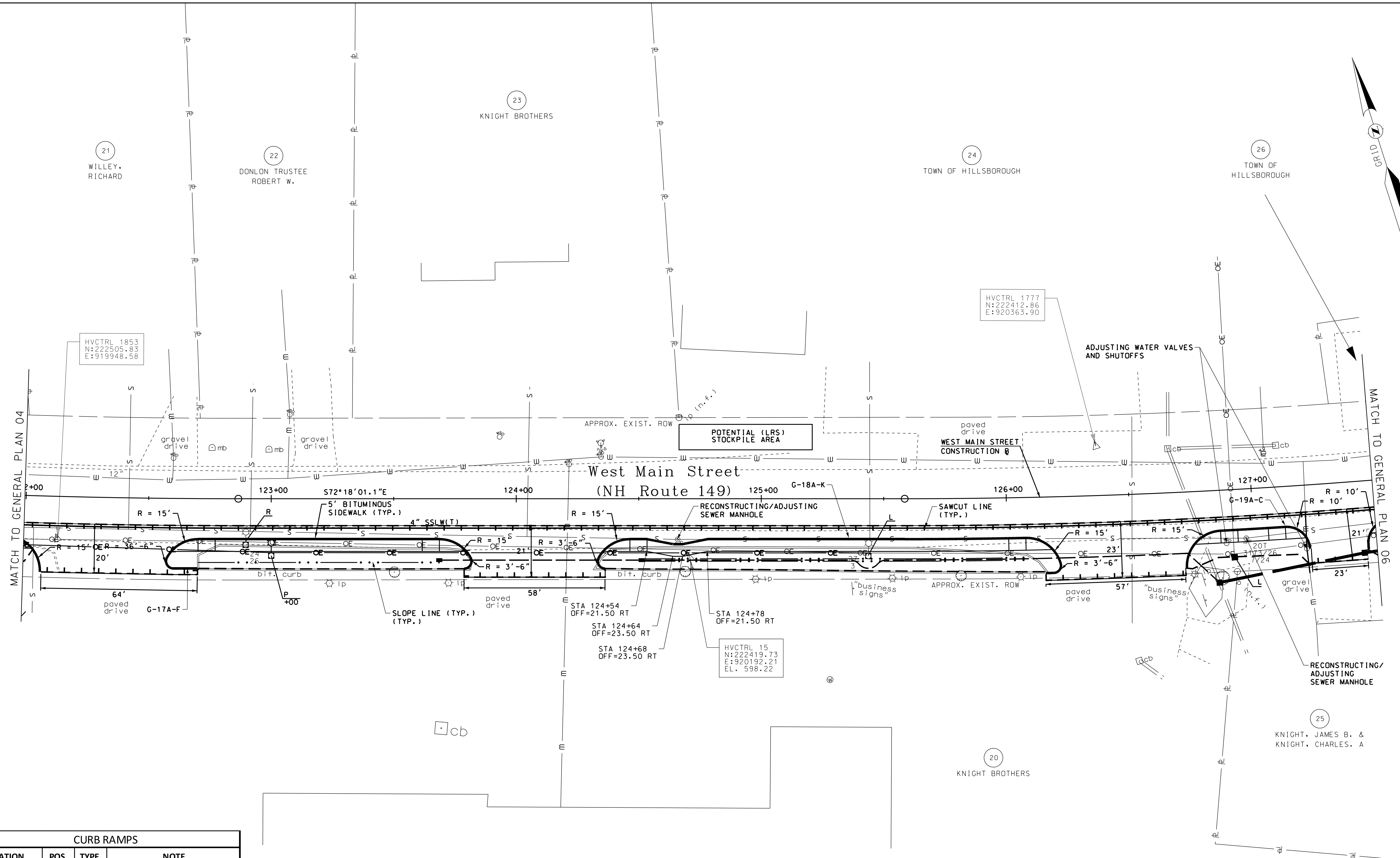
REVISIONS AFTER PROPOSAL	STATION	DESCRIPTION

1. RELOCATING COMMERCIAL SIGN
CONTRACTOR SHALL COORDINATE WITH
PROPERTY OWNER ON PROPOSED SIGN
LOCATION (SUBSIDIARY)



SDR PROCESSED	DATE	---
NEW DESIGN	GMC/TAM	DATE 3/28/2023
SHEET CHECKED	BMB	DATE 3/28/2023
ENGINEER	BRIAN M. BRESLEND	NO. 15117
AS BUILT DETAILS	DATE	---

REVISIONS AFTER PROPOSAL	STATION	DESCRIPTION



HVCTRL 1853
N:222505.83
E:919948.58

HVCTRL 1777
N:222412.86
E:920363.90

HVCTRL 15
N:222419.73
E:920192.21
EL. 598.22

CURB RAMPS			
STATION	POS.	TYPE	NOTE
122+66	RT	1	NO. DET. WARNING SURFACE
123+65	RT	1	NO. DET. WARNING SURFACE
124+42	RT	1	NO. DET. WARNING SURFACE
126+11	RT	1	NO. DET. WARNING SURFACE
126+80	RT	3	NO. DET. WARNING SURFACE
127+16	RT	3	NO. DET. WARNING SURFACE

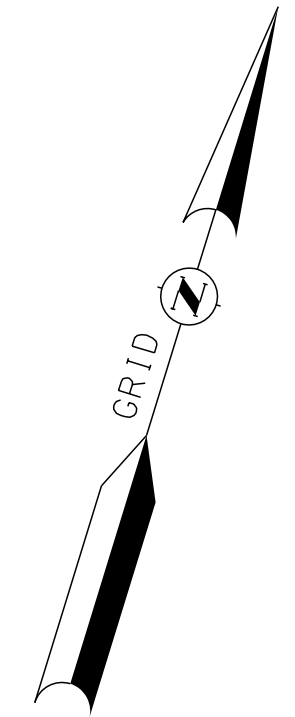
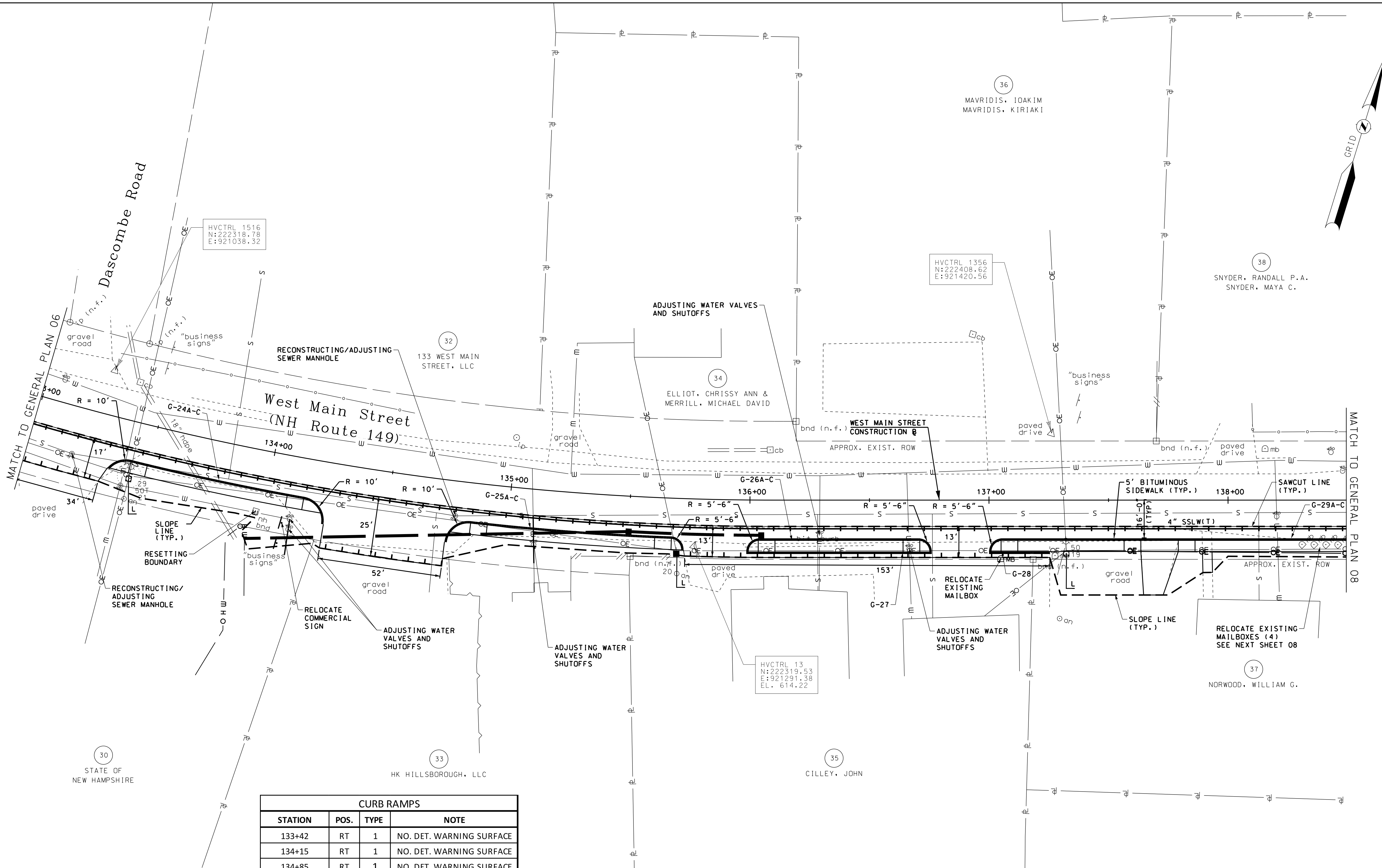


D&K NO. 324277

TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
GENERAL PLAN 05			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368genplans	41368	37	112

SDR PROCESSED	---	DATE	---
NEW DESIGN	GMC/TAM	DATE	3/28/2023
SHEET CHECKED	BMB	DATE	3/28/2023
ENGINEER	BRIAN M. BRESLEND	NO.	15117
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL	STATION	DESCRIPTION



CURB RAMP			
STATION	POS.	TYPE	NOTE
133+42	RT	1	NO. DET. WARNING SURFACE
134+15	RT	1	NO. DET. WARNING SURFACE
134+85	RT	1	NO. DET. WARNING SURFACE
135+68	RT	1	NO. DET. WARNING SURFACE
136+04	RT	1	NO. DET. WARNING SURFACE
136+71	RT	1	NO. DET. WARNING SURFACE
137+05	RT	1	NO. DET. WARNING SURFACE
137+60	RT	2	NO. DET. WARNING SURFACE
137+83	RT	2	NO. DET. WARNING SURFACE



TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
GENERAL PLAN 07			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368genPlans	41368	39	112

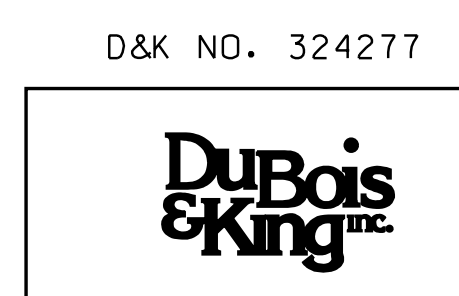
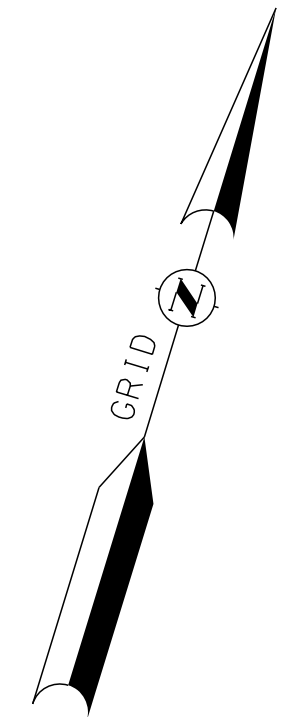
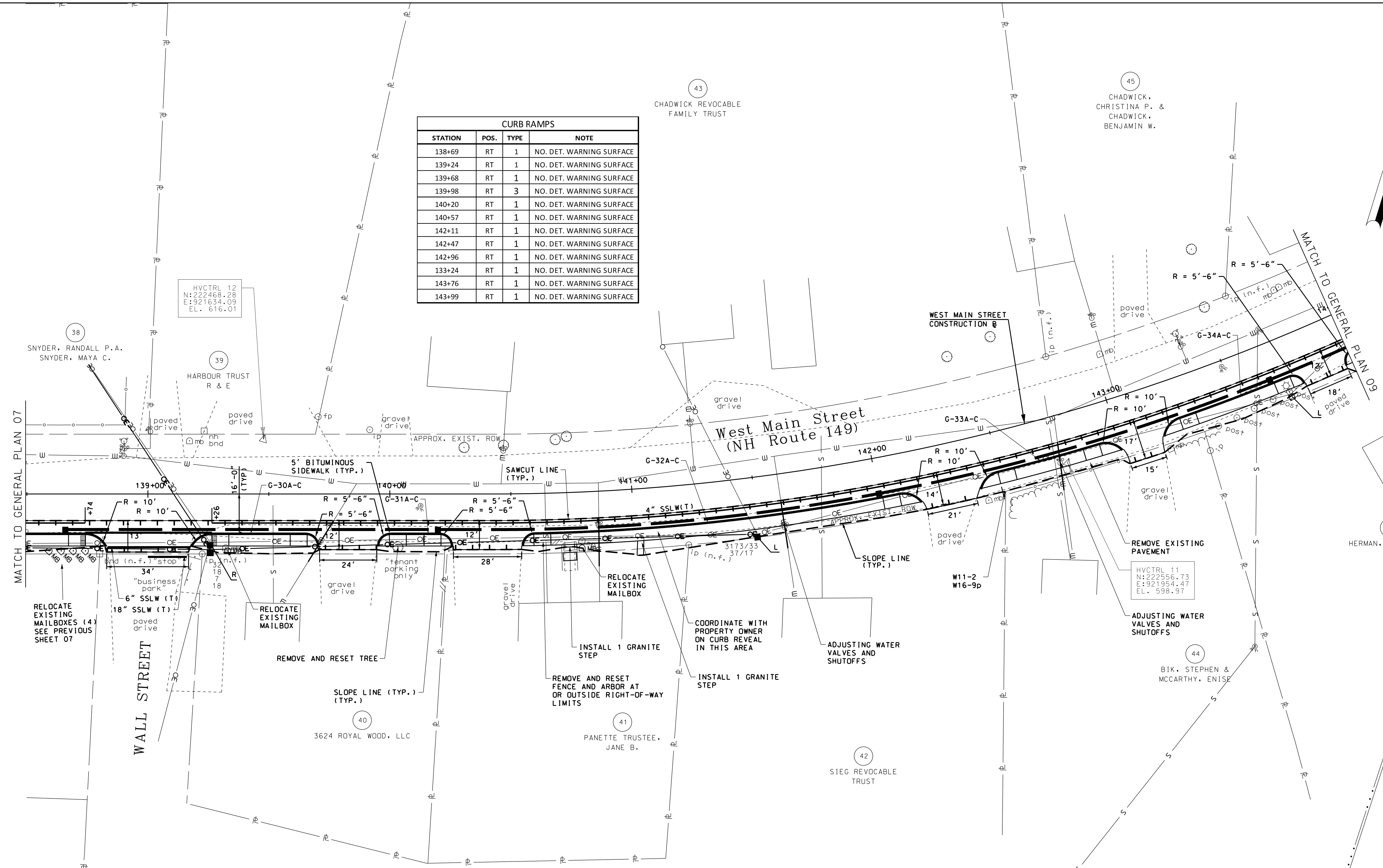
D&K NO. 324277

SDR PROCESSED	DATE	DATE	DATE	DATE
NEW DESIGN	DATE	DATE	DATE	DATE
SHEET CHECKED	DATE	DATE	DATE	DATE
ENGINEER	BRIAN M. BRESLEND	NO. 15117		
AS BUILT DETAILS				

REVISIONS AFTER PROPOSAL	STATION	DESCRIPTION

NUMBER	DATE	STATION	DESCRIPTION

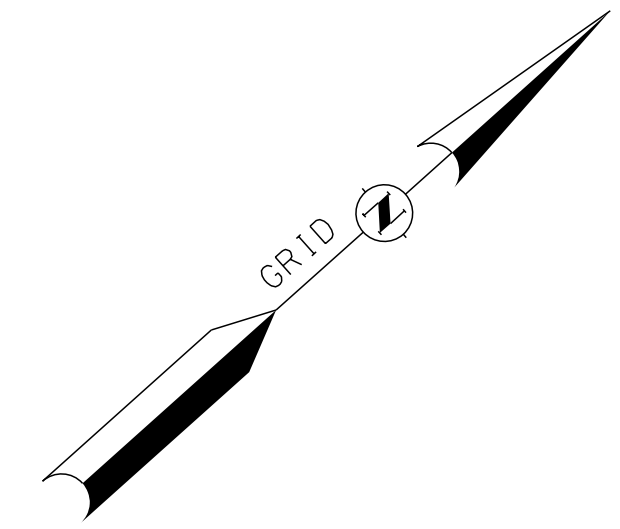
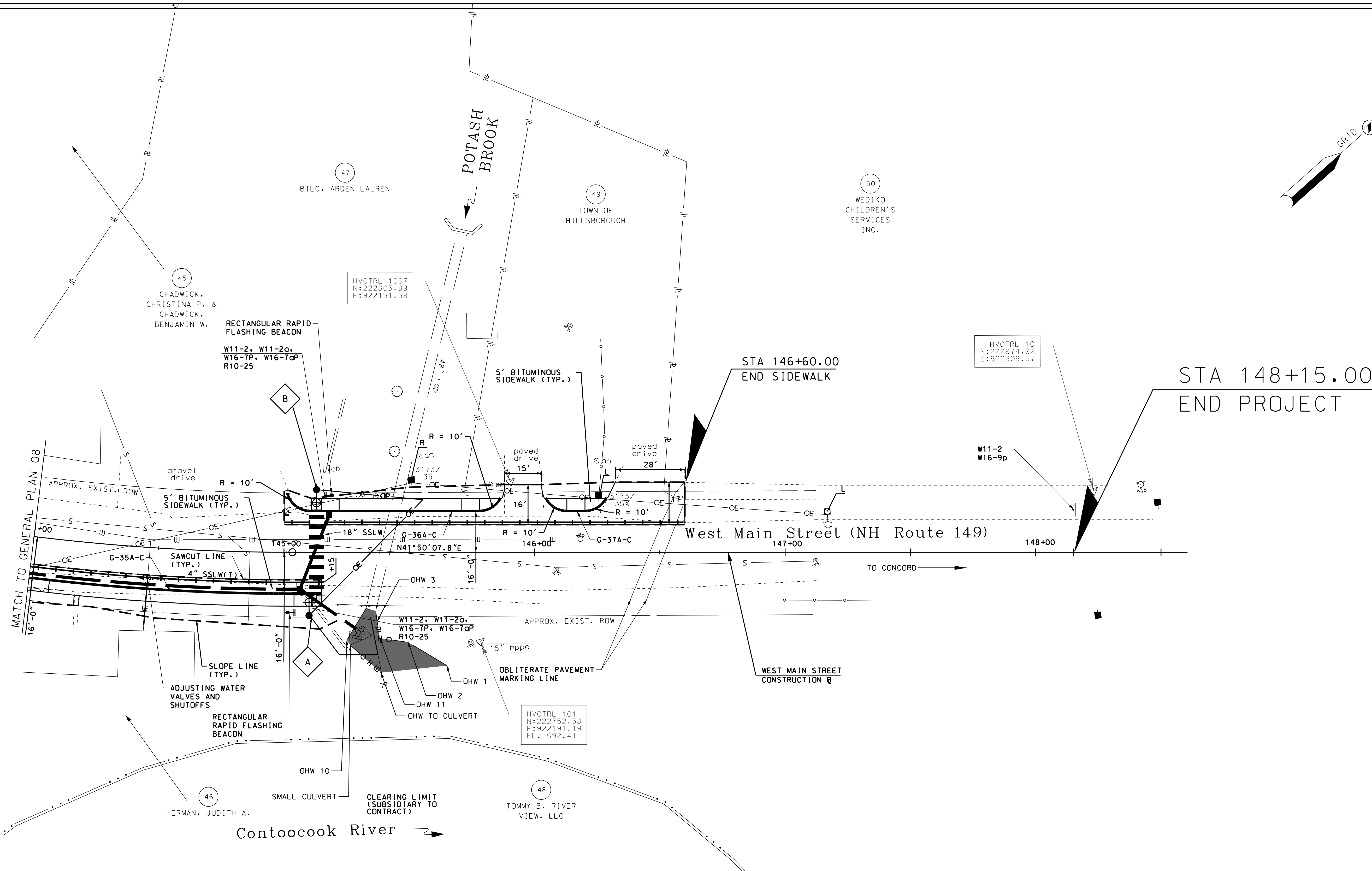
CURB RAMPS			
STATION	POS.	TYPE	NOTE
138+69	RT	1	NO. DET. WARNING SURFACE
139+24	RT	1	NO. DET. WARNING SURFACE
139+68	RT	1	NO. DET. WARNING SURFACE
139+98	RT	3	NO. DET. WARNING SURFACE
140+20	RT	1	NO. DET. WARNING SURFACE
140+57	RT	1	NO. DET. WARNING SURFACE
142+11	RT	1	NO. DET. WARNING SURFACE
142+47	RT	1	NO. DET. WARNING SURFACE
142+96	RT	1	NO. DET. WARNING SURFACE
133+24	RT	1	NO. DET. WARNING SURFACE
143+76	RT	1	NO. DET. WARNING SURFACE
143+99	RT	1	NO. DET. WARNING SURFACE



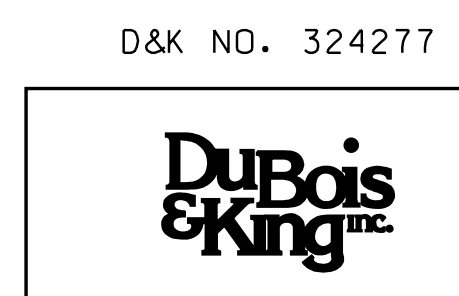
TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
GENERAL PLAN 08			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368genplans	41368	40	112

D&K NO. 324277

SDR PROCESSED	DATE	DESCRIPTION
NEW DESIGN	3/28/2023	GNC/TAM
SHEET CHECKED	3/28/2023	BMB
ENGINEER	15117	BRIAN M. BRESLEND
AS BUILT DETAILS		

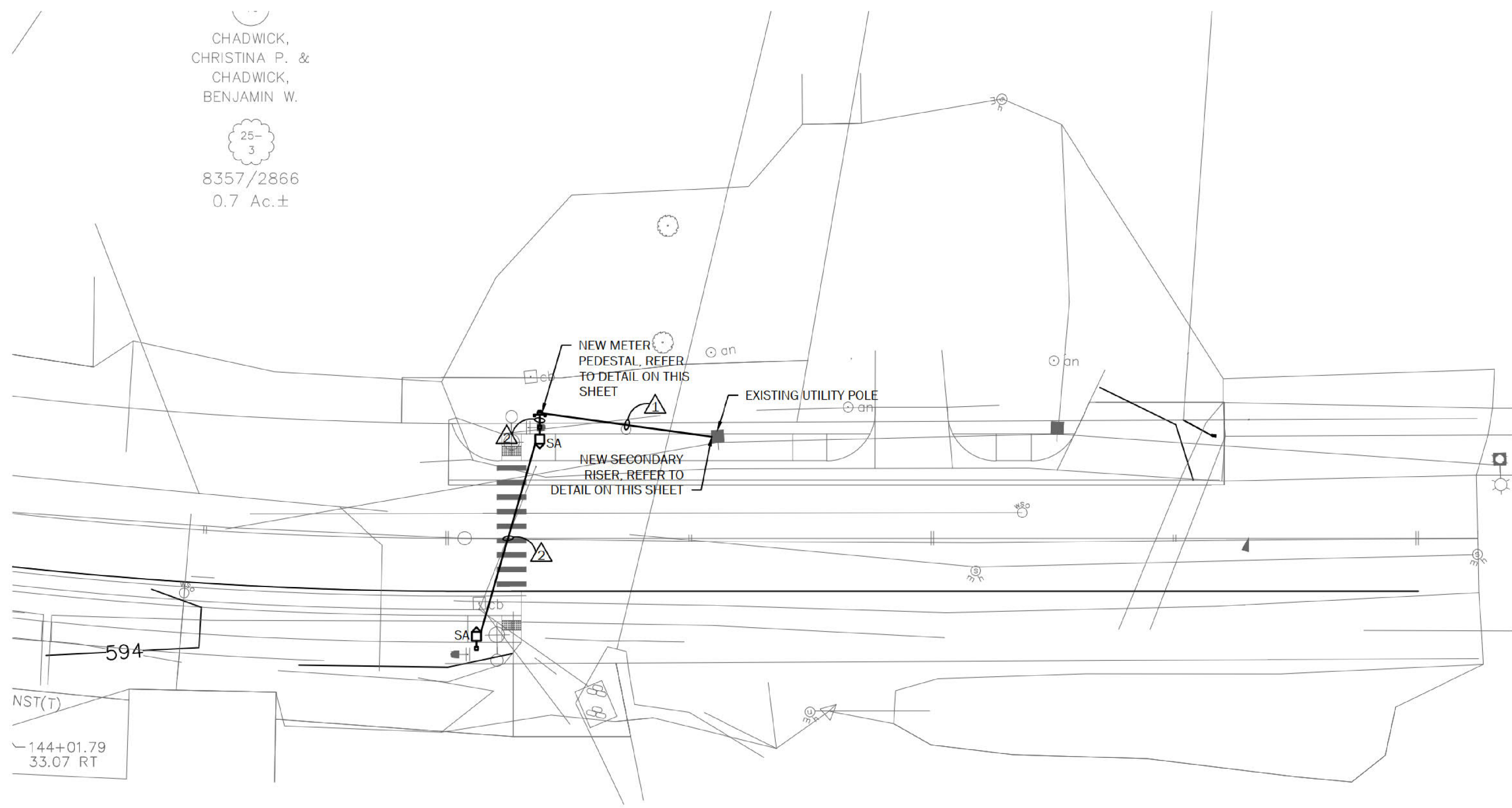


CURB RAMPS			
STATION	POS.	TYPE	NOTE
145+14	RT	8	NO. DET. WARNING SURFACE
145+75	LT	1	NO. DET. WARNING SURFACE
146+10	LT	1	NO. DET. WARNING SURFACE
146+25	LT	1	NO. DET. WARNING SURFACE

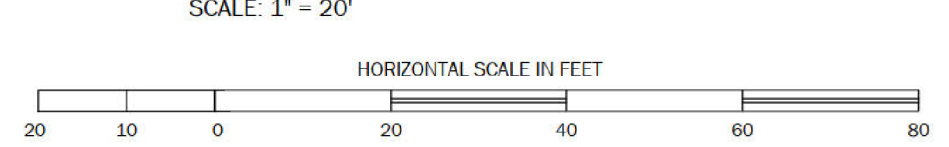


TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
GENERAL PLAN 09			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368genplans	41368	41	112

CHADWICK,
CHRISTINA P. &
CHADWICK,
BENJAMIN W.
25-3
8357/2866
0.7 Ac.±



ELECTRICAL LIGHTING PLAN

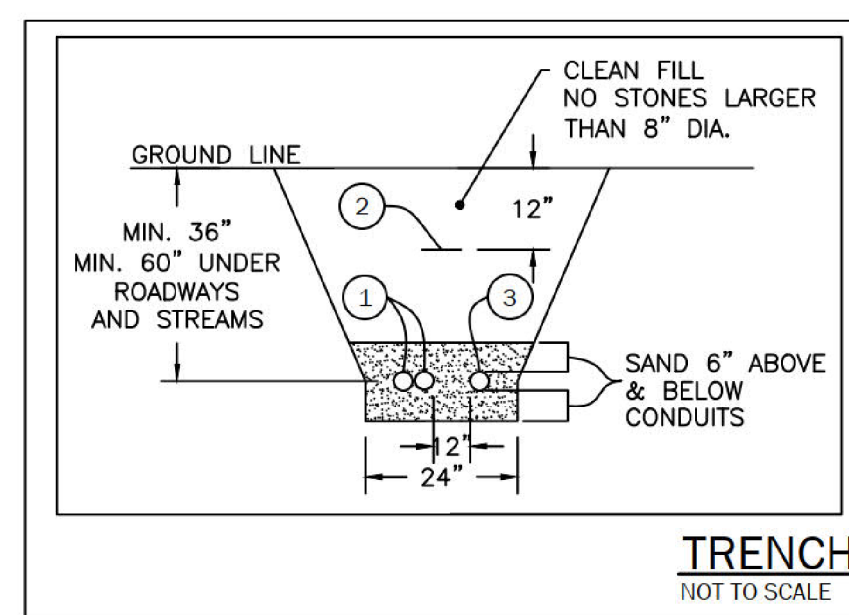
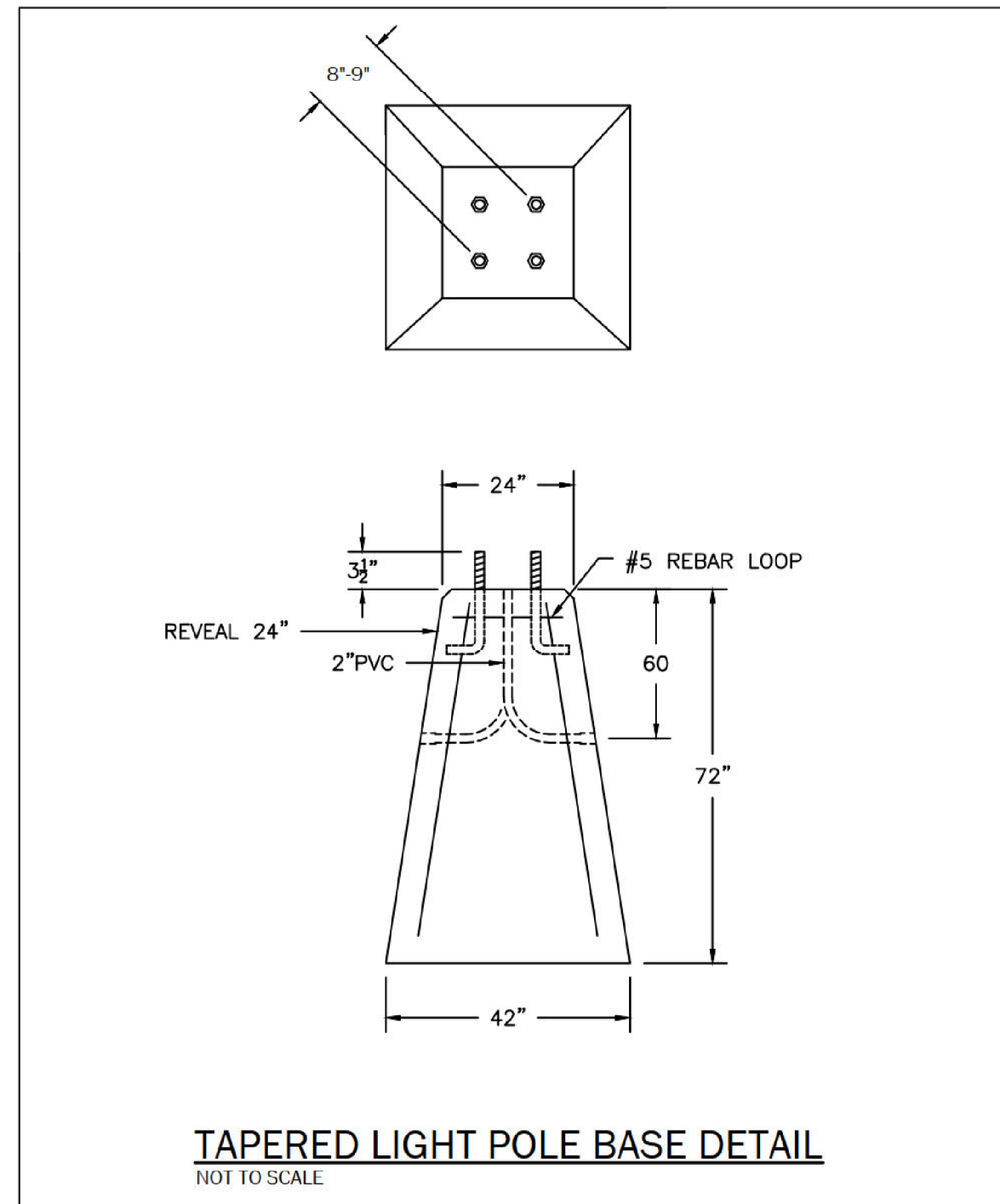
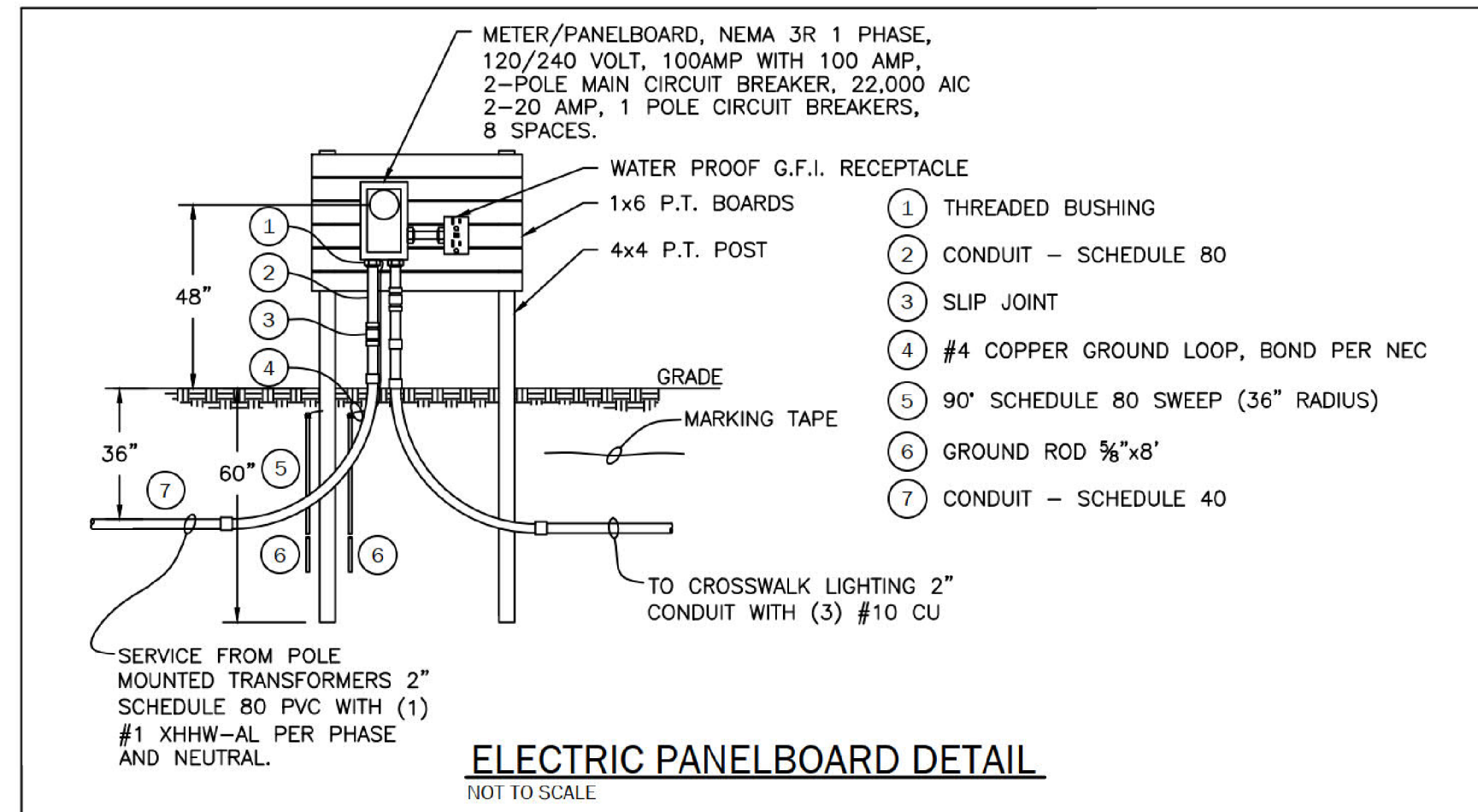
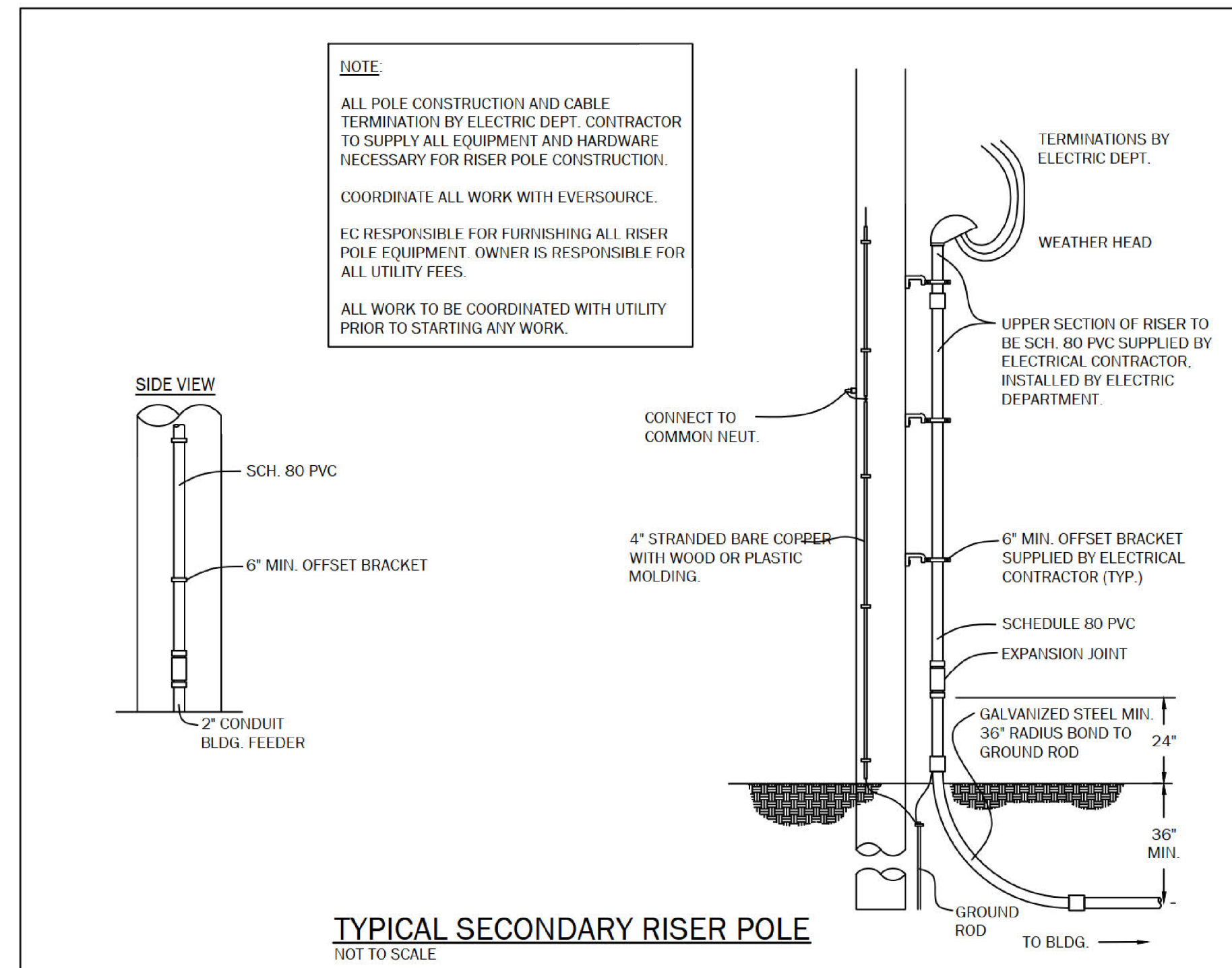


ELECTRICAL SERVICE, TELEPHONE CONDUIT & WIRE SCHEDULE

KEY	DESCRIPTION
△	(1) 2" SCHEDULE 80 PVC WITH (1) 1 XHHW-AL PER PHASE AND NEUTRAL WITH #6 AL GROUND - 100A SERVICE TO METER
△	(1) 2" SCHEDULE 80 PVC WITH (3) #10 CU - CROSSWALK LIGHTING POWER

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER & MODEL NO.	DESCRIPTION	LAMPS	WATTS	LUMENS	VOLTS	REMARKS
SA	LITHONIA LIGHTING DSXO LED-P1-30K-FTM- MVOLT-SPA-PERHS-BAA- DBLXD-G1-DLL127F1.5JU	POLE MOUNTED LIGHT	LED	38	4711	120/ 277	MOUNT 14' ABOVE FINISHED GRADE. PROVIDE TWISTLOCK PHOTOCELL CONTROL. PROVIDE 12" POLE ON 2" BASE LITHONIA SSA-12-4C-DM19AS-BAA-DBLXD



KEYED NOTES

KEY	DESCRIPTION
①	SERVICE CABLE DUCT SHALL BE PVC SCHEDULE 40. UNDER ROADS AND DRIVEWAYS TO BE SCHEDULE 80.
②	WARNING TAPE SHALL BE ELECTRIC LEGEND TYPE. ALLEN CAT.#ANT-1006-RE OR EQUAL. (WARNING TAPE SHALL BE PLACED 12" BELOW SURFACE.)
③	TELEPHONE AND CATV DUCTS SHALL BE 4" PVC SCHEDULE 40. UNDER ROADS & DRIVEWAYS TO BE SCHEDULE 80. MAINTAIN 12" SEPARATION FROM ELECTRIC. 1- 3" SPARE CONDUIT.

SDR PROCESSED	DATE	DATE	DATE	DATE	DATE
NEW DESIGN	RMR				
SHEET CHECKED	BMB				
ENGINEER	BRIAN M. BRESLEND NO. 15177				
AS BUILT DETAILS					

D&K NO. 324277



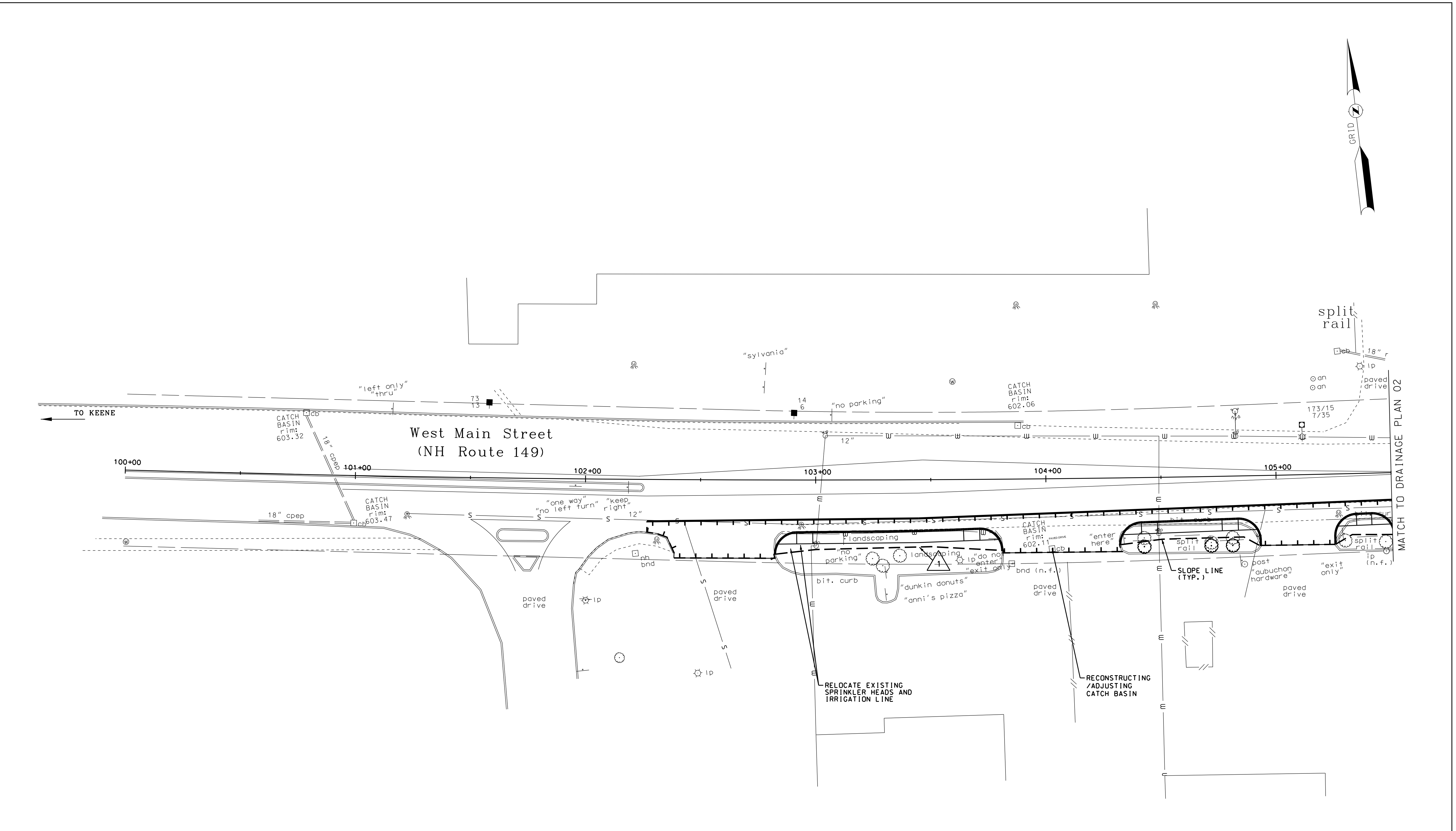
REVISION DATE
3-21-23

TOWN OF HILLSBOROUGH, NEW HAMPSHIRE

ELECTRICAL LIGHTING PLAN

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
	41368	42	112

SDR PROCESSED	---	DATE	
NEW DESIGN	GNC/TAM	DATE	3/28/2023
SHEET CHECKED	BMB	DATE	3/28/2023
ENGINEER	BRIAN M. BRESLEND	NO.	15117
AS BUILT DETAILS		DATE	



STORMWATER NOTES
 1. ESTIMATED QUANTITIES OF WATER & SEWER LINE & ANCILLARY PAY ITEMS HAVE BEEN ACCOUNTED FOR POTENTIAL IMPACTS BETWEEN EXISTING INFRASTRUCTURE AND PROPOSED IMPROVEMENTS.



D&K NO. 324277

TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
<i>DRAINAGE PLAN 01</i>			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368drnp1ans	41368	43	112

MATCH TO DRAINAGE PLAN 02

REVISIONS AFTER PROPOSAL

NUMBER	DATE	STATION	DESCRIPTION

SDR PROCESSED	DATE

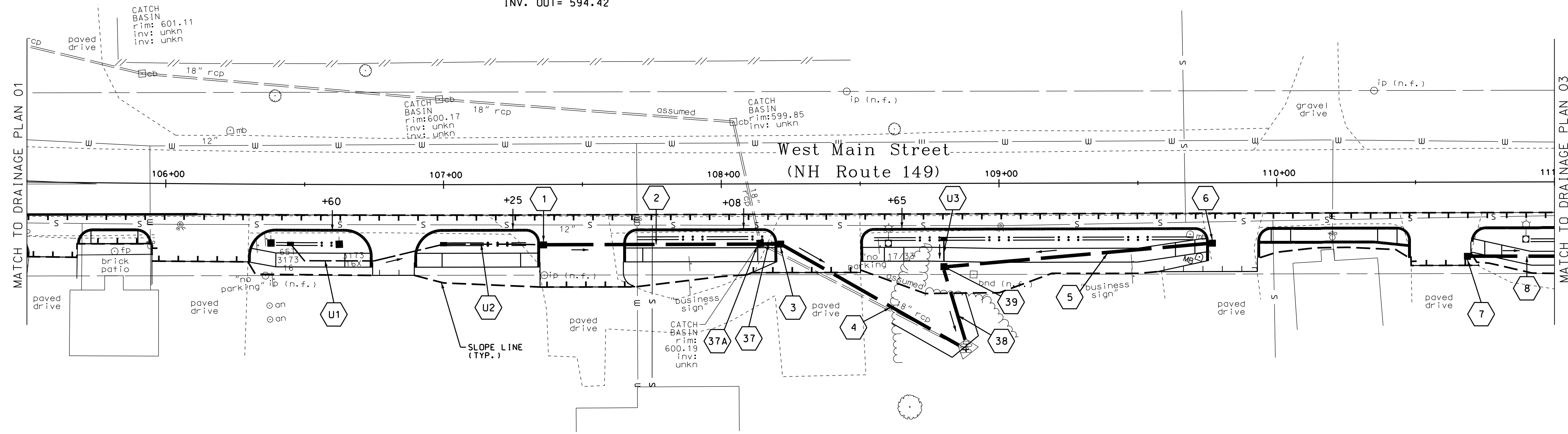
NEW DESIGN	DATE
GNC/TAM	3/28/2023

SHEET CHECKED	DATE
BMB	3/28/2023

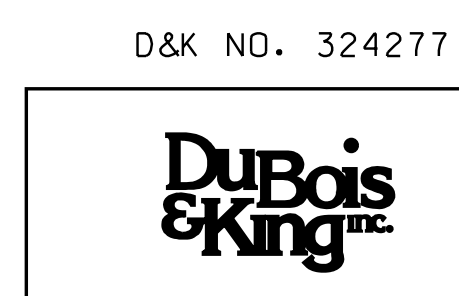
ENGINEER	NO.
BRIAN M. BRESLEND	15117

AS BUILT DETAILS

- 1 STA. 107+36 RT 21.75' CB. DEEP SUMP (TYPE B GRATE) RIM = 601.24 INV. IN = 596.61 INV. OUT = 595.99
- 2 STA. 107+36 RT 21.75' TO STA. 108+14 RT 21.45' INSTALL 15" PE (78') INV. IN = 595.99 INV. OUT = 595.37 S = 0.008
- 37A STA. 108+14 RT 21.45' CB. DEEP SUMP (TYPE B GRATE) RIM = 601.50 INV. IN = 595.37 INV. OUT = 595.37 REMOVE EXISTING CB. PAY ITEM 202.5
- 37 STA. 108+14 RT 21.45' TO STA. 108+21 RT 21.72' INSTALL 18" PE (7') INV. IN = 595.37 INV. OUT = 595.31 S = 0.008
- 3 STA. 108+21 RT 21.72' CB. DEEP SUMP (TYPE B GRATE) RIM = 601.08 INV. IN = 595.31 INV. OUT = 595.06
- 4 STA. 108+21 RT 21.72' TO STA. 108+85 RT 58.35' INSTALL 18" PE (73.85') WITH END SECTION INV. IN = 595.06 INV. OUT = 589.00 S = 0.082
- 38 REMOVE EXISTING 18" RCP PAY ITEM 202.41
- 38 STA. 108+80 RT 30.00' TO STA. 108+88 RT 56.35' INSTALL 18" PE (26.22') WITH END SECTION INV. IN = 594.42 INV. OUT = 589.00 S = 0.207
- 39 STA. 108+80 RT 30.00' CB. DEEP SUMP (TYPE B GRATE) RIM = 600.22 INV. IN = 597.94 INV. IN = 594.97 INV. OUT = 594.42
- 5 STA. 108+80 RT 30.00' TO STA. 109+77 RT 21.74' INSTALL 15" PE (95.78') INV. IN = 595.93 INV. OUT = 594.97 S = 0.01
- 6 STA. 109+77 RT 21.74' CB. DEEP SUMP (TYPE B GRATE) RIM = 601.18 INV. OUT = 595.93
- 7 STA. 110+69 RT 26.75' CB. DEEP SUMP (TYPE B GRATE) RIM = 601.11 INV. OUT = 595.86
- 8 STA. 110+69 RT 26.75' TO STA. 111+75 RT 27.00' INSTALL 15" PE (106.40') INV. IN = 595.86 INV. OUT = 594.48 S = 0.013
- U1 STA. 106+45 RT 21.50' TO STA. 107+00 RT 21.50' INSTALL 6" UNDERDRAIN (59.43') INV. IN = 598.49 INV. OUT = 597.69 S = 0.013
- U2 STA. 107+00 RT 21.50' TO STA. 107+36 RT 21.75' INSTALL 6" UNDERDRAIN (36.00') INV. IN = 597.69 INV. OUT = 596.61 S = 0.03
- U3 STA. 108+80 RT 20.00' TO STA. 108+80 RT 30.00' INSTALL 6" UNDERDRAIN (10.00') INV. IN = 598.44 INV. OUT = 597.94 S = 0.05
- INSTALL BEEHIVE GRATE RISER AT STA. 106+45 RT 20.50' RIM. 601.14
- INSTALL BEEHIVE GRATE RISER AT STA. 107+00 RT 21.50' RIM. 600.99
- INSTALL BEEHIVE GRATE RISER AT STA. 108+80 RT 20.00' RIM. 601.19



STORMWATER NOTES
 1. ESTIMATED QUANTITIES OF WATER & SEWER LINE & ANCILLARY PAY ITEMS HAVE BEEN ACCOUNTED FOR POTENTIAL IMPACTS BETWEEN EXISTING INFRASTRUCTURE AND PROPOSED IMPROVEMENTS.



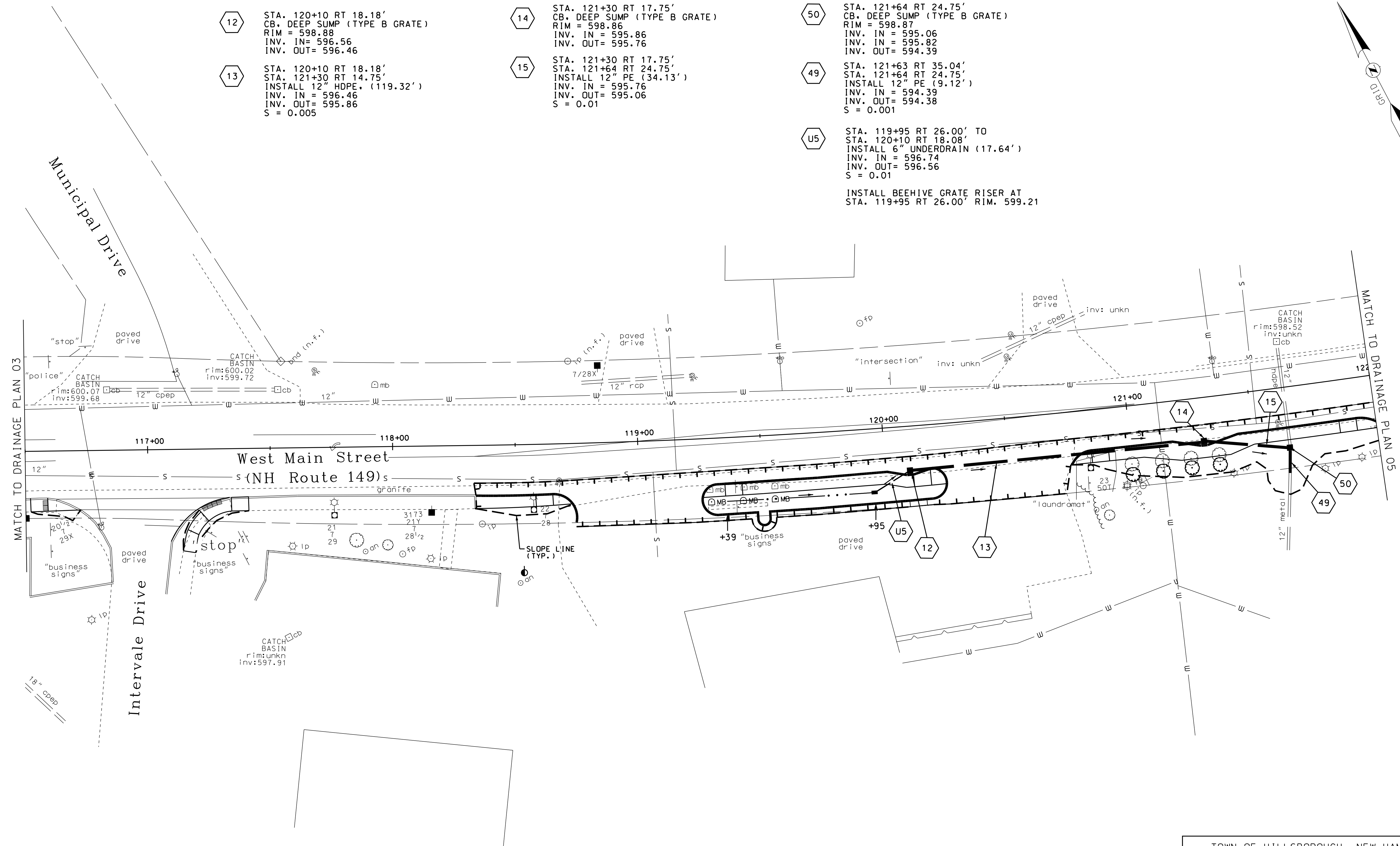
TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
DRAINAGE PLAN 02			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368drnp1ans	41368	44	112

D&K NO. 324277

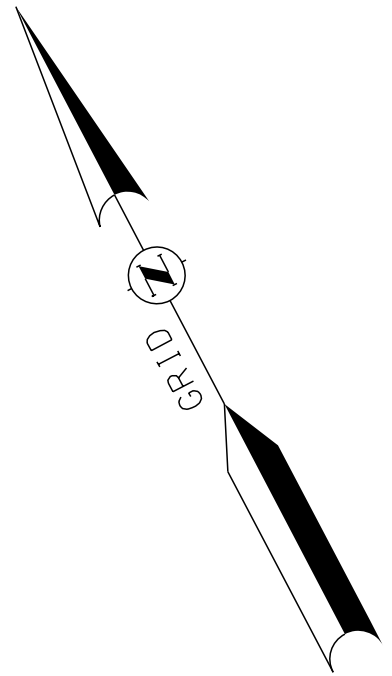
SDR PROCESSED	---	DATE	---
NEW DESIGN	GNC/TAM	DATE	3/28/2023
SHEET CHECKED	BMB	DATE	3/28/2023
ENGINEER	BRIAN M. BRESLEND	NO.	15117
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL	STATION	DESCRIPTION

STORMWATER NOTES
 1. ESTIMATED QUANTITIES OF WATER & SEWER LINE & ANCILLARY PAY ITEMS HAVE BEEN ACCOUNTED FOR POTENTIAL IMPACTS BETWEEN EXISTING INFRASTRUCTURE AND PROPOSED IMPROVEMENTS.



- 12 STA. 120+10 RT 18.18'
CB. DEEP SUMP (TYPE B GRATE)
RIM = 598.88
INV. IN = 596.56
INV. OUT = 596.46
 - 13 STA. 120+10 RT 18.18'
STA. 121+30 RT 14.75'
INSTALL 12" HDPE. (119.32')
INV. IN = 596.46
INV. OUT = 595.86
S = 0.005
 - 14 STA. 121+30 RT 17.75'
CB. DEEP SUMP (TYPE B GRATE)
RIM = 598.86
INV. IN = 595.86
INV. OUT = 595.76
 - 15 STA. 121+30 RT 17.75'
STA. 121+64 RT 24.75'
INSTALL 12" PE (34.13')
INV. IN = 595.76
INV. OUT = 595.06
S = 0.01
 - 49 STA. 121+63 RT 35.04'
STA. 121+64 RT 24.75'
INSTALL 12" PE (9.12')
INV. IN = 594.39
INV. OUT = 594.38
S = 0.001
 - 50 STA. 121+64 RT 24.75'
CB. DEEP SUMP (TYPE B GRATE)
RIM = 598.87
INV. IN = 595.06
INV. IN = 595.82
INV. OUT = 594.39
 - U5 STA. 119+95 RT 26.00' TO
STA. 120+10 RT 18.08'
INSTALL 6" UNDERDRAIN (17.64')
INV. IN = 596.74
INV. OUT = 596.56
S = 0.01
- INSTALL BEEHIVE GRATE RISER AT
 STA. 119+95 RT 26.00' RIM. 599.21



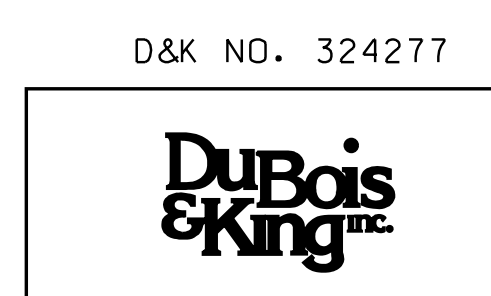
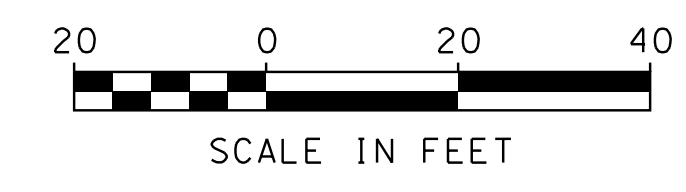
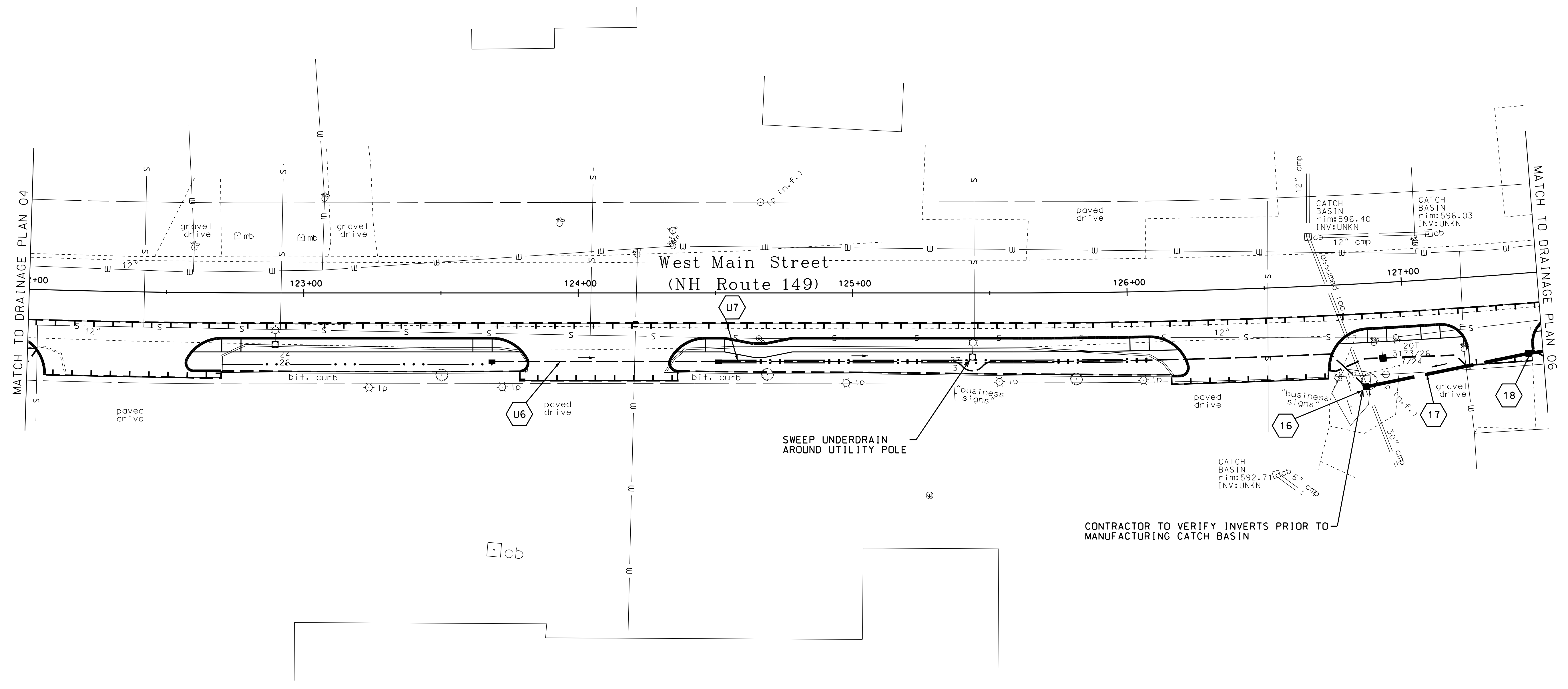
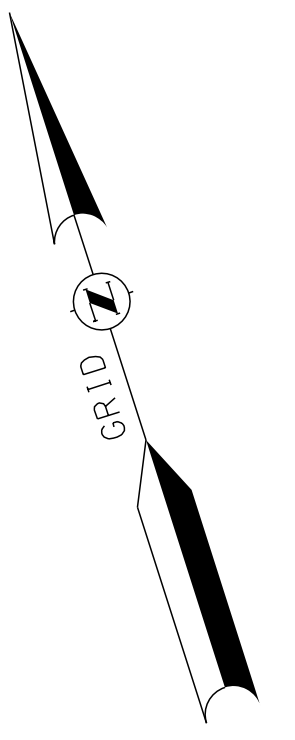
TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
DRAINAGE PLAN 04			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368drnp1ans	41368	46	112

REVISIONS AFTER PROPOSAL

NUMBER	DATE	STATION	DESCRIPTION

SDR PROCESSED	---	DATE	---
NEW DESIGN	GNC/TAM	DATE	3/28/2023
SHEET CHECKED	BMB	DATE	3/28/2023
ENGINEER	BRIAN M. BRESLEND	NO.	15117
AS BUILT DETAILS		DATE	

- U6** STA. 123+69 RT 25.00' TO STA. 124+51 RT 25.00'
 INSTALL 6" UNDERDRAIN (82.59')
 INV. IN = 595.68
 INV. OUT = 594.85
 S = 0.01
- INSTALL BEEHIVE GRATE RISER AT STA. 123+69 RT 25.00' RIM. 598.25
- U7** STA. 124+51 RT 25.00' TO STA. 126+85 RT 37.60'
 INSTALL 6" UNDERDRAIN (242.52')
 INV. IN = 594.85
 INV. OUT = 592.42
 S = 0.01
- INSTALL BEEHIVE GRATE RISER AT STA. 124+51 RT 25.00' RIM. 597.50
- 16** STA. 126+85 RT 37.60' DI. DEEP SUMP (TYPE B GRATE)
 RIM = 596.85
 INV. IN = 592.42
 INV. IN = 591.92
 INV. OUT = 591.15
- 17** STA. 126+85 RT 37.60' STA. 127+44 RT 29.30'
 INSTALL 15" PE (60.51')
 INV. IN = 592.51
 INV. OUT = 591.92
 S = 0.01
- 18** STA. 127+44 RT 29.30' DI. DEEP SUMP (TYPE B GRATE)
 RIM = 597.42
 INV. IN = 592.61
 INV. OUT = 592.51



TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
DRAINAGE PLAN 05			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368drnp1ans	41368	47	112

REVISIONS AFTER PROPOSAL

NUMBER	DATE	STATION	DESCRIPTION

SDR PROCESSED	DATE		DATE
NEW DESIGN	GNC/TAM		3/28/2023
SHEET CHECKED	BMB		3/28/2023
ENGINEER	BRIAN M. BRESLEND	NO. 15117	
AS BUILT DETAILS			

STORMWATER NOTES

1. ESTIMATED QUANTITIES OF WATER & SEWER LINE & ANCILLARY PAY ITEMS HAVE BEEN ACCOUNTED FOR POTENTIAL IMPACTS BETWEEN EXISTING INFRASTRUCTURE AND PROPOSED IMPROVEMENTS.

19 STA. 127+44, RT 29.30' TO STA. 128+64, RT 21.81' TO
INSTALL 15" PE (121.03')
INV. IN = 593.82
INV. OUT= 592.61
S = 0.01

43 STA. 128+64, RT 21.81' DI, DEEP SUMP (TYPE B GRATE)
RIM = 598.60
INV. IN = 595.42
INV. IN = 593.92
INV. OUT= 593.82

20 STA. 128+64, RT 21.81' STA. 130+00, RT 15.00' TO
INSTALL 15" PE (137.38')
INV. IN = 595.66
INV. OUT= 593.92
S = 0.01

44 STA. 130+00, RT 15.00' DI, DEEP SUMP (TYPE B GRATE)
RIM = 599.26
INV. IN = 595.71
INV. IN = 595.76
INV. OUT= 595.66

21 STA. 130+00, RT 15.00' TO STA. 131+08, RT 14.75' TO
INSTALL 15" PE (92.61')
INV. IN = 596.76
INV. OUT= 595.76
S = 0.01

22 STA. 131+08, RT 14.75' DI, DEEP SUMP (TYPE B GRATE)
RIM = 600.36
INV. IN = 597.86
INV. OUT= 596.76

U8 STA. 128+64 RT 21.81' TO STA. 128+86 RT 21.52' TO
INSTALL 6" UNDERDRAIN (22.83')
INV. IN = 595.65
INV. OUT= 595.42
S = 0.01

INSTALL BEEHIVE GRATE RISER AT STA. 128+86 RT 21.52' RIM. 598.40

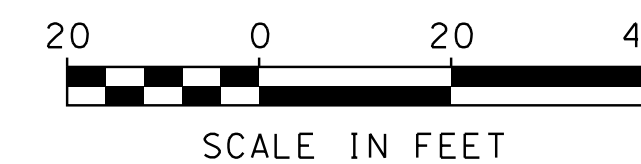
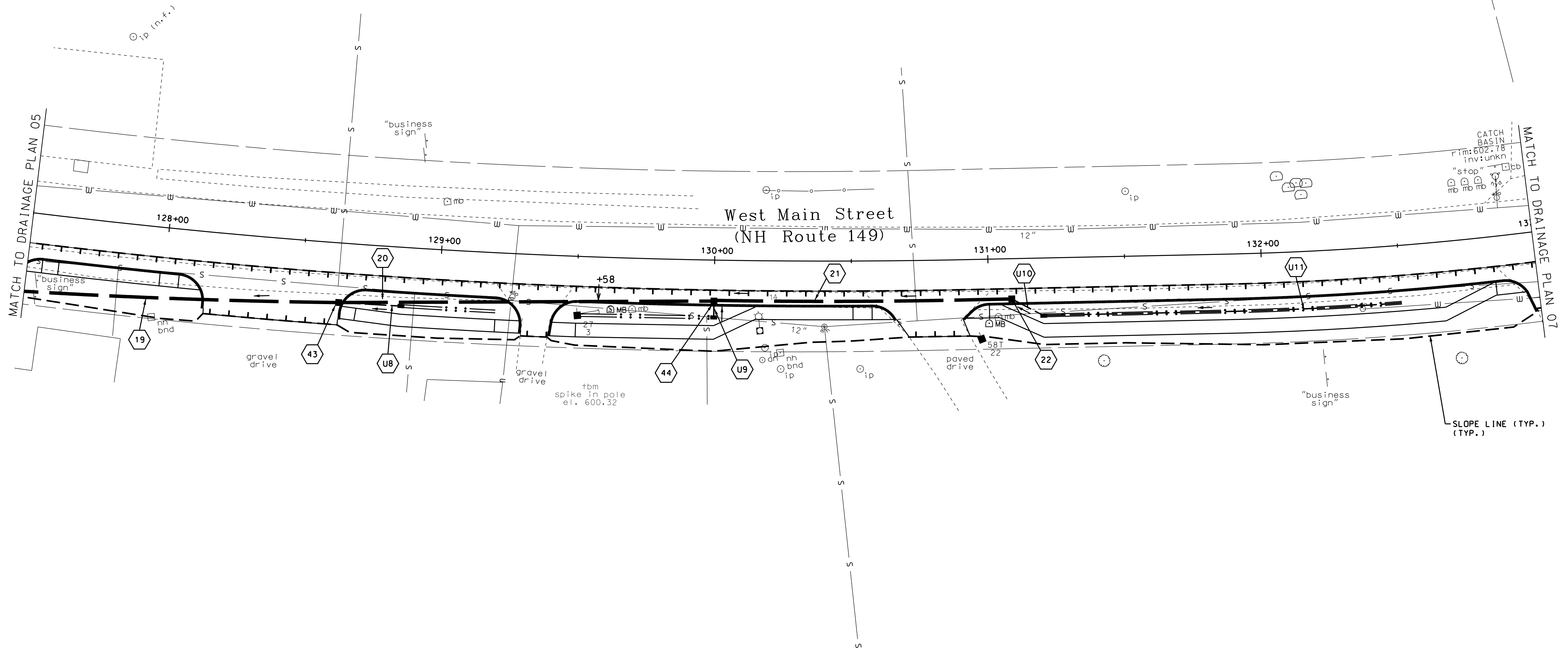
U9 STA. 130+00 RT 15.00' TO STA. 130+00 RT 21.00' TO
INSTALL 6" UNDERDRAIN (6.00')
INV. IN = 595.77
INV. OUT= 595.71
S = 0.01

INSTALL BEEHIVE GRATE RISER AT STA. 130+00 RT 21.00' RIM. 598.68

U10 STA. 131+08 RT 14.75' TO STA. 131+20 RT 21.00' TO
INSTALL 6" UNDERDRAIN (13.21')
INV. IN = 598.50
INV. OUT= 597.86
S = 0.05

INSTALL BEEHIVE GRATE RISER AT STA. 131+20 RT 21.00' RIM. 600.36

U11 STA. 131+20 RT 21.00' TO STA. 132+50 RT 21.00' TO
INSTALL 6" UNDERDRAIN (130')
INV. IN = 599.67
INV. OUT= 598.50
S = 0.009



D&K NO. 324277



TOWN OF HILLSBOROUGH, NEW HAMPSHIRE

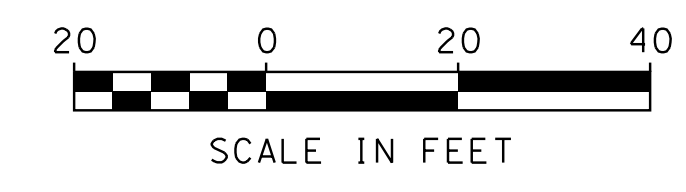
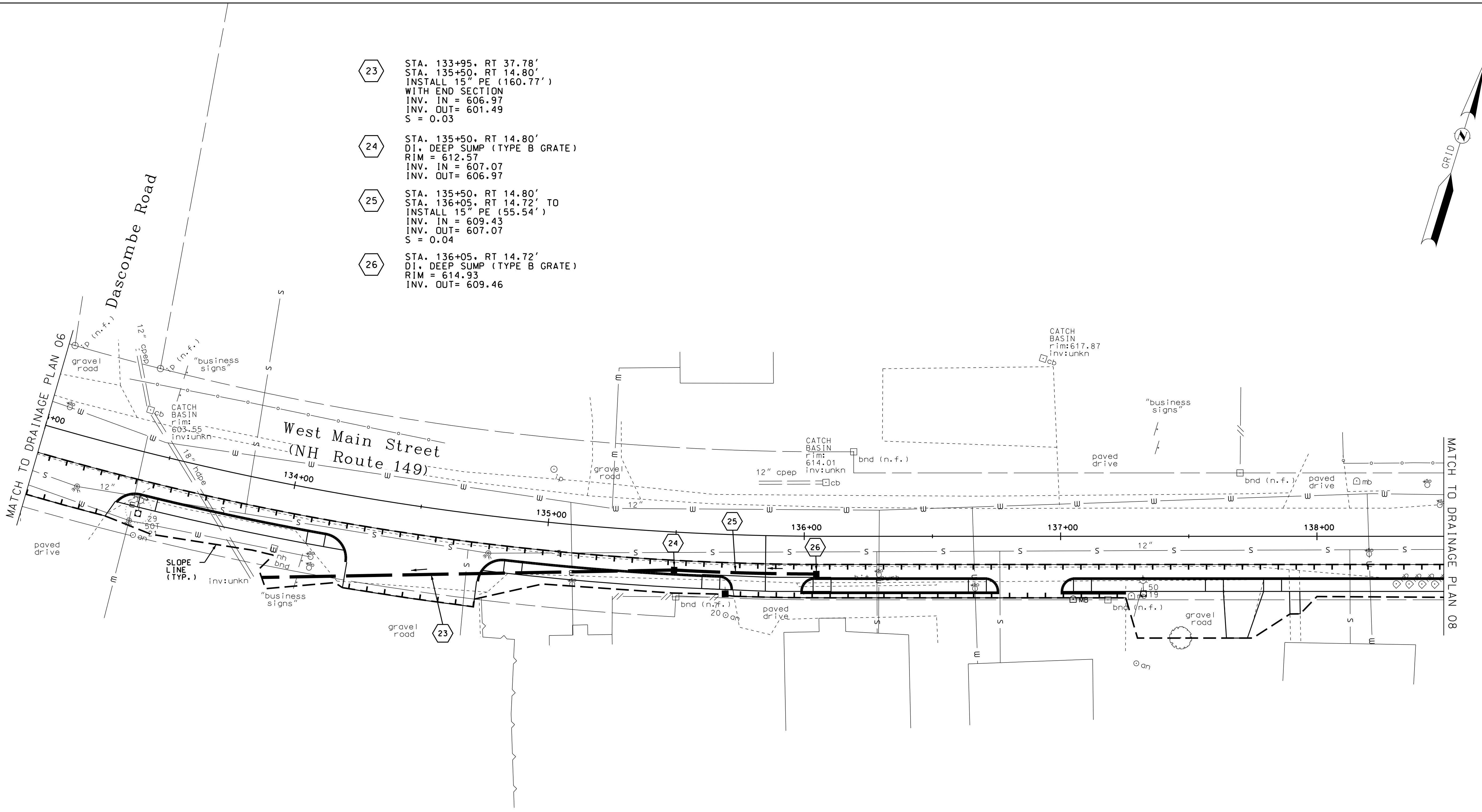
DRAINAGE PLAN 06

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368drnp1ans	41368	48	112

SDR PROCESSED	---	DATE	---
NEW DESIGN	GNC/TAM	DATE	3/28/2023
SHEET CHECKED	BMB	DATE	3/28/2023
ENGINEER	BRIAN M. BRESLEND	NO.	15117
AS BUILT DETAILS		DATE	

STORMWATER NOTES
 1. ESTIMATED QUANTITIES OF WATER & SEWER LINE & ANCILLARY PAY ITEMS HAVE BEEN ACCOUNTED FOR POTENTIAL IMPACTS BETWEEN EXISTING INFRASTRUCTURE AND PROPOSED IMPROVEMENTS.

- 23 STA. 133+95. RT 37.78'
 STA. 135+50. RT 14.80'
 INSTALL 15" PE (160.77')
 WITH END SECTION
 INV. IN = 606.97
 INV. OUT = 601.49
 S = 0.03
- 24 STA. 135+50. RT 14.80'
 DI. DEEP SUMP (TYPE B GRATE)
 RIM = 612.57
 INV. IN = 607.07
 INV. OUT = 606.97
- 25 STA. 135+50. RT 14.80'
 STA. 136+05. RT 14.72' TO
 INSTALL 15" PE (55.54')
 INV. IN = 609.43
 INV. OUT = 607.07
 S = 0.04
- 26 STA. 136+05. RT 14.72'
 DI. DEEP SUMP (TYPE B GRATE)
 RIM = 614.93
 INV. OUT = 609.46



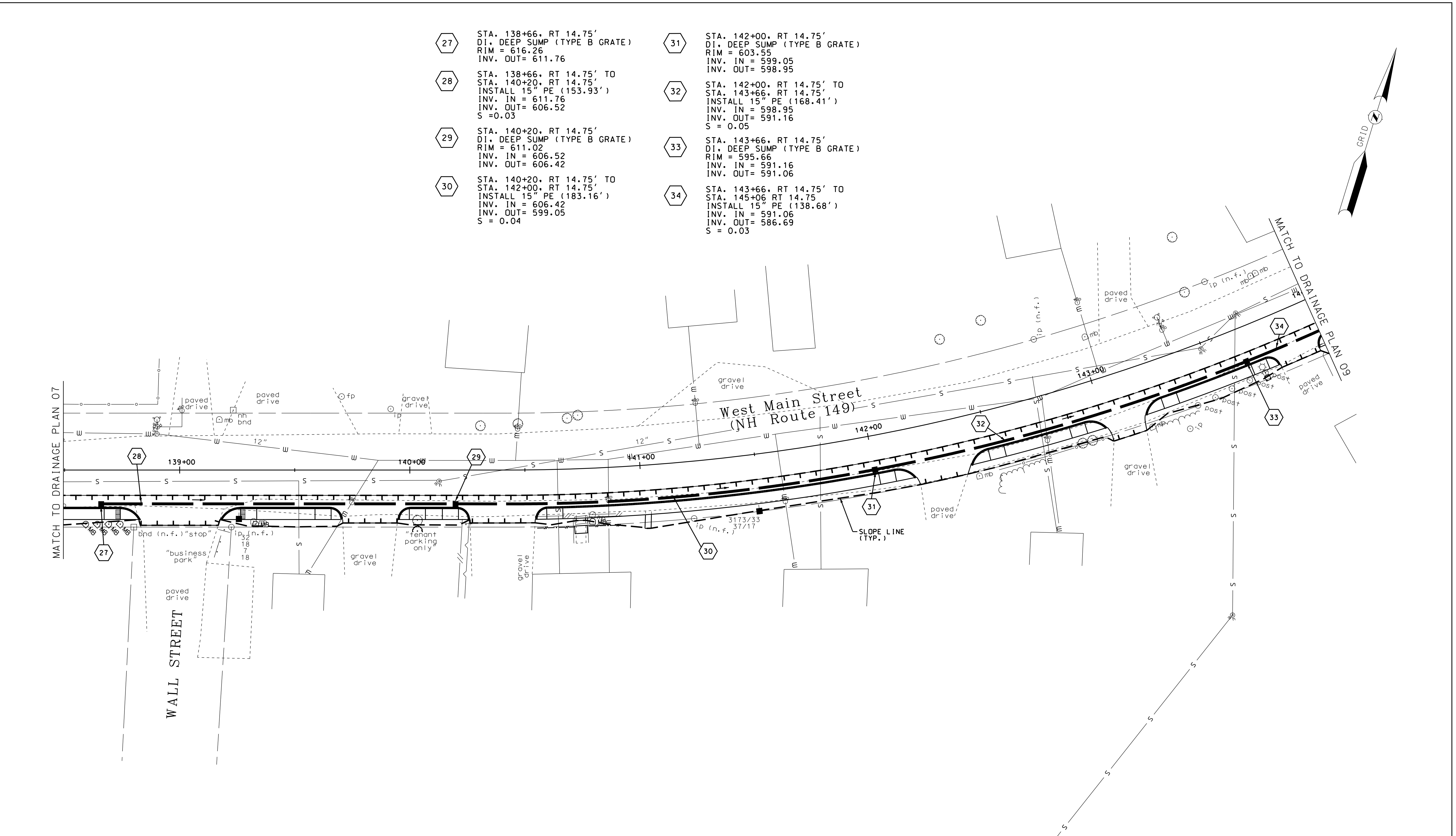
D&K NO. 324277

TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
DRAINAGE PLAN 07			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368drnp1ans	41368	49	112

SDR PROCESSED	---	DATE	---
NEW DESIGN	GNC/TAM	DATE	3/28/2023
SHEET CHECKED	BMB	DATE	3/28/2023
ENGINEER	BRIAN M. BRESLEND	NO.	15117
AS BUILT DETAILS		DATE	

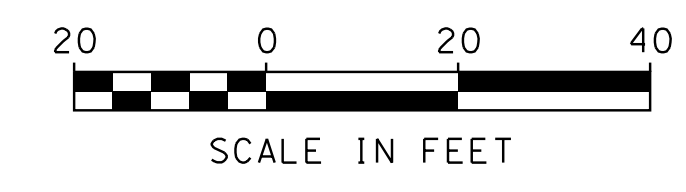
REVISIONS AFTER PROPOSAL	DESCRIPTION

STATION	
STATION	
DATE	
NUMBER	



- 27 STA. 138+66, RT 14.75'
DI. DEEP SUMP (TYPE B GRATE)
RIM = 616.26
INV. OUT= 611.76
- 28 STA. 138+66, RT 14.75' TO
STA. 140+20, RT 14.75'
INSTALL 15" PE (153.93')
INV. IN = 611.76
INV. OUT= 606.52
S = 0.03
- 29 STA. 140+20, RT 14.75'
DI. DEEP SUMP (TYPE B GRATE)
RIM = 611.02
INV. IN = 606.52
INV. OUT= 606.42
- 30 STA. 140+20, RT 14.75' TO
STA. 142+00, RT 14.75'
INSTALL 15" PE (183.16')
INV. IN = 606.42
INV. OUT= 599.05
S = 0.04
- 31 STA. 142+00, RT 14.75'
DI. DEEP SUMP (TYPE B GRATE)
RIM = 603.55
INV. IN = 599.05
INV. OUT= 598.95
- 32 STA. 142+00, RT 14.75' TO
STA. 143+66, RT 14.75'
INSTALL 15" PE (168.41')
INV. IN = 598.95
INV. OUT= 591.16
S = 0.05
- 33 STA. 143+66, RT 14.75'
DI. DEEP SUMP (TYPE B GRATE)
RIM = 595.66
INV. IN = 591.16
INV. OUT= 591.06
- 34 STA. 143+66, RT 14.75' TO
STA. 145+06 RT 14.75'
INSTALL 15" PE (138.68')
INV. IN = 591.06
INV. OUT= 586.69
S = 0.03

STORMWATER NOTES
 1. ESTIMATED QUANTITIES OF WATER & SEWER LINE & ANCILLARY PAY
 ITEMS HAVE BEEN ACCOUNTED FOR POTENTIAL IMPACTS BETWEEN
 EXISTING INFRASTRUCTURE AND PROPOSED IMPROVEMENTS.

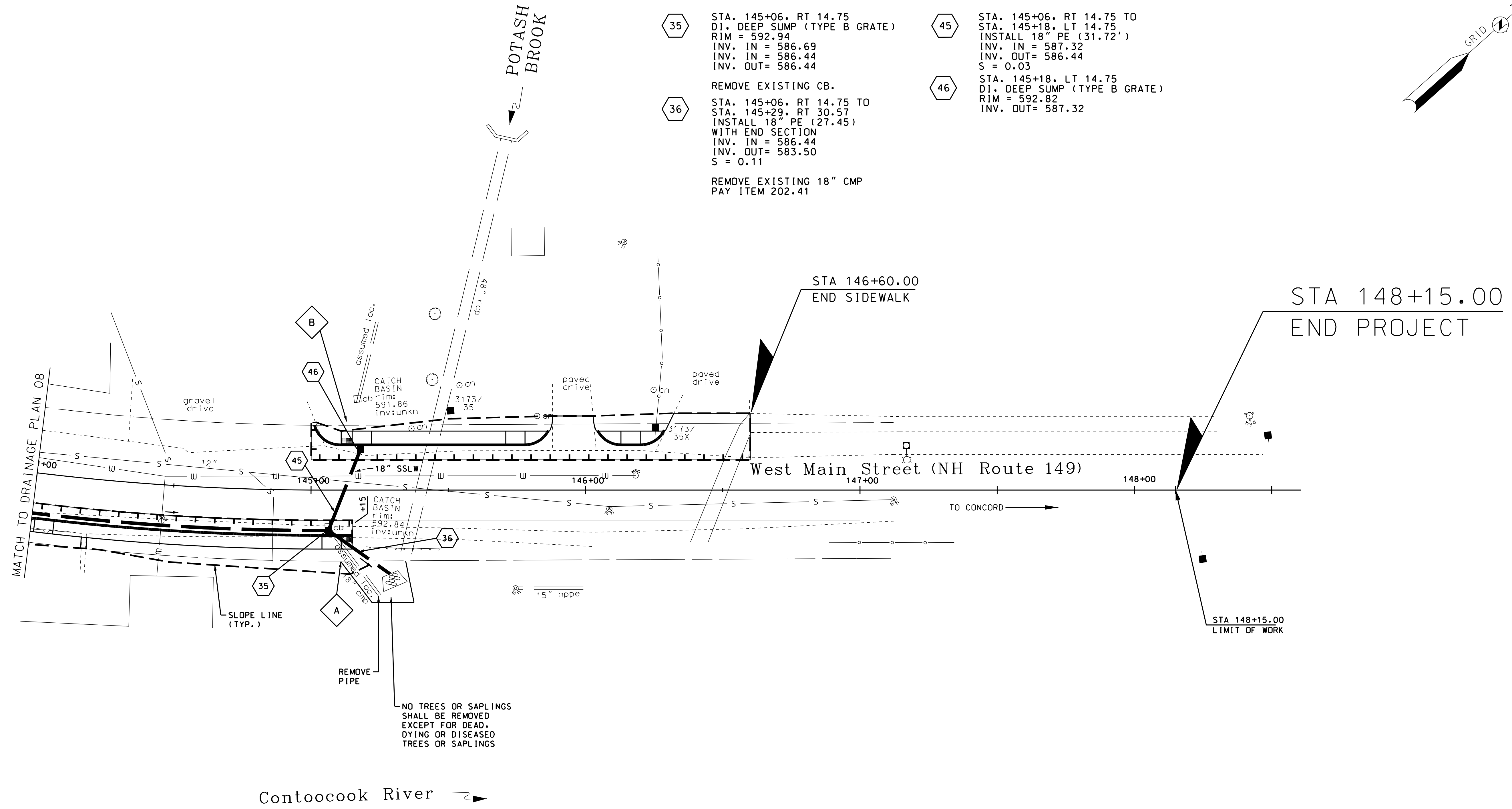


TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
DRAINAGE PLAN 08			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368drnp1ans	41368	50	112

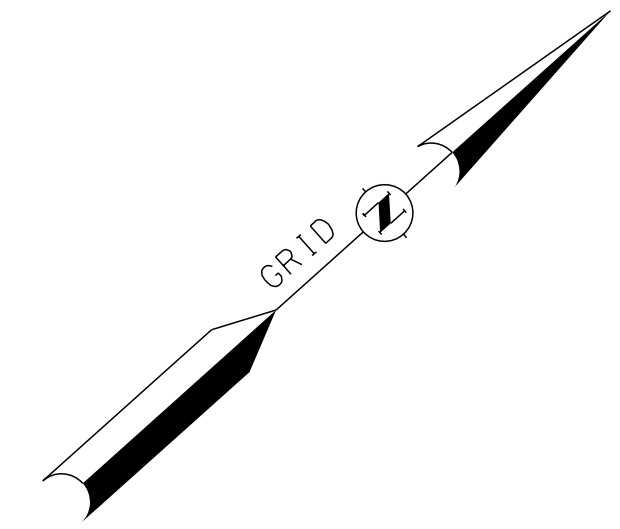
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NEW DESIGN	GNC/TAM	DATE	3/28/2023
SHEET CHECKED	BMB	DATE	3/28/2023
ENGINEER	BRIAN M. BRESLEND	NO.	15117
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL	STATION	DESCRIPTION

STORMWATER NOTES
 1. ESTIMATED QUANTITIES OF WATER & SEWER LINE & ANCILLARY PAY ITEMS HAVE BEEN ACCOUNTED FOR POTENTIAL IMPACTS BETWEEN EXISTING INFRASTRUCTURE AND PROPOSED IMPROVEMENTS.



- 35 STA. 145+06, RT 14.75
DI. DEEP SUMP (TYPE B GRATE)
RIM = 592.94
INV. IN = 586.69
INV. IN = 586.44
INV. OUT = 586.44
- 36 REMOVE EXISTING CB.
STA. 145+06, RT 14.75 TO
STA. 145+29, RT 30.57
INSTALL 18" PE (27.45)
WITH END SECTION
INV. IN = 586.44
INV. OUT = 583.50
S = 0.11
REMOVE EXISTING 18" CMP
PAY ITEM 202.41
- 45 STA. 145+06, RT 14.75 TO
STA. 145+18, LT 14.75
INSTALL 18" PE (31.72')
INV. IN = 587.32
INV. OUT = 586.44
S = 0.03
- 46 STA. 145+18, LT 14.75
DI. DEEP SUMP (TYPE B GRATE)
RIM = 592.82
INV. OUT = 587.32



REVISION DATE	3/28/2023
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D&K NO. 324277



TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
DRAINAGE PLAN 09			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368drnp1ans	41368	51	112

SDR PROCESSED		DATE		---	
NEW DESIGN	OID	DATE	3/28/2023	STATION	
SHEET CHECKED	BMB	DATE	3/28/2023	STATION	
ENGINEER	BRIAN M. BRESLEND	NO.	15117	DATE	
AS BUILT DETAILS					

REVISIONS AFTER PROPOSAL

ITEM #	IDENT #	SIGN SIZE		TEXT	TEXT DIMENSIONS			SHIELD SIZE (inch)	ARROW (inch)	NUMERAL (inch)	# SIGNS REQ'D	SIGN AREA (SQ. FT.)		POSTS PER SIGN					REMARKS	
		WIDTH (inch)	HEIGHT (inch)		LETTER HEIGHT (inch)							NOM AREA	TOTAL AREA	BREAKAWAY	STEEL I-BEAM	CONCRETE BASE	4" OD ALUMINUM	U-CHANNEL-GALV.		
					UC	LC	CAPS													
616.2021	W11-2	30	30								2	6.25	12.50						1	BLACK ON YELLOW / INSTALL RRFB WITH FOUNDATION
616.2021	W11-2a	30	30								2	6.25	12.50						1	BLACK ON YELLOW / INSTALL RRFB WITH FOUNDATION
616.2021	W16-7P	24	12								2	2.00	4.00							BLACK ON YELLOW
616.2021	W16-2aP	24	12								2	2.00	4.00							BLACK ON YELLOW
616.2021	R10-25	9	15								2	0.94	1.88							BLACK ON WHITE
615.0301	W11-2	30	30								2	6.25	12.50						1	BLACK ON YELLOW
615.0601	W16-9P	24	12								2	2.00	4.00							BLACK ON YELLOW; MOUNT BELOW W11-2

1. REFER TO THE 2016 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION PUBLISHED BY THE NHDOT.
2. NOTE NEW REFLECTIVITY REQUIREMENTS IN THE 2016 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 718 PUBLISHED BY THE NHDOT.
3. REFER TO THE 2010 STANDARD PLANS FOR ROAD CONSTRUCTION AS PUBLISHED BY THE NHDOT FOR EXACT DETAILS OF PERMANENT SIGNING STANDARDS AND NHDOT SPECIFIC SIGNS.
4. REFER TO THE LATEST EDITION OF THE STANDARD HIGHWAY SIGNS MANUAL AS PUBLISHED BY THE USDOT-FHWA FOR EXACT DETAILS OF BORDERS, ETC.
5. THE ALUMINUM OR U-CHANNEL POST SHALL BE FLUSH WITH THE TOP OF THE SIGN ON ALL SINGLE POST ASSEMBLIES.

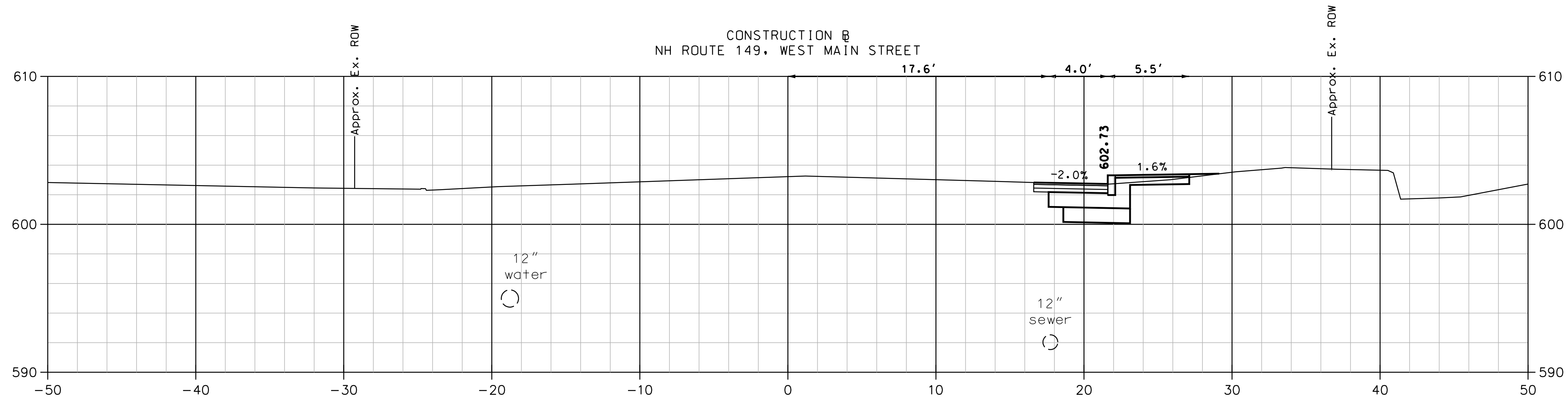
D&K NO. 324277



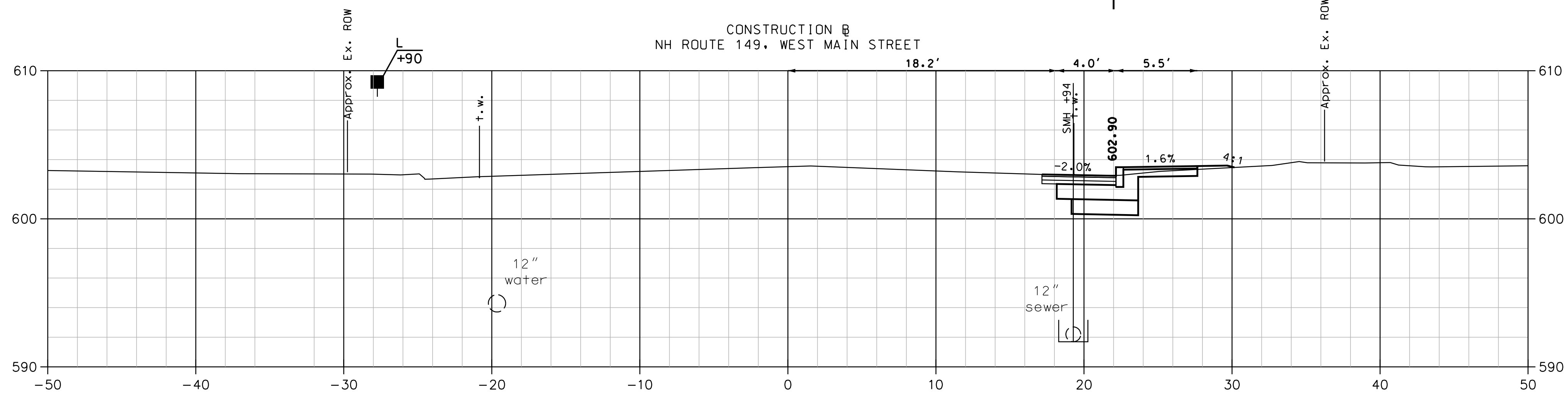
TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
SIGN TEXT LAYOUT			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368s+1	41368	52	112

REVISIONS AFTER PROPOSAL		STATION	DESCRIPTION
NUMBER	DATE	STATION	DESCRIPTION

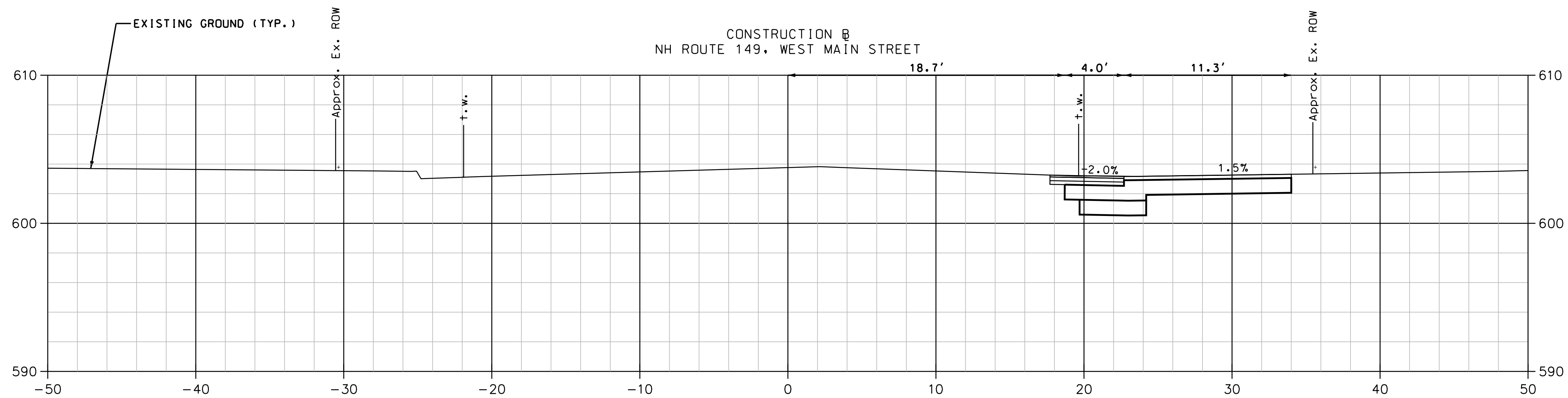
SDR PROCESSED	---	DATE	---
NEW DESIGN	GMC	DATE	3/28/2023
SHEET CHECKED	BMB	DATE	3/28/2023
AS BUILT DETAILS		DATE	



103+50



103+00



102+60

DRIVE RT

LIMIT OF WORK STA 102+26.80

NOTE:
PROPOSED GRADE AT CURB
IS THE GUTTER GRADE.

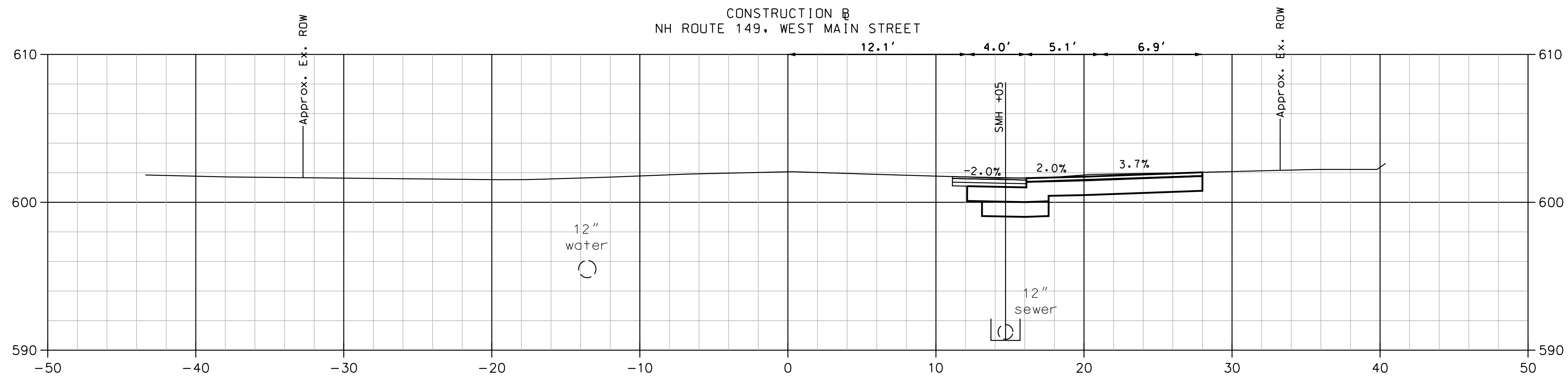
D&K NO. 324277



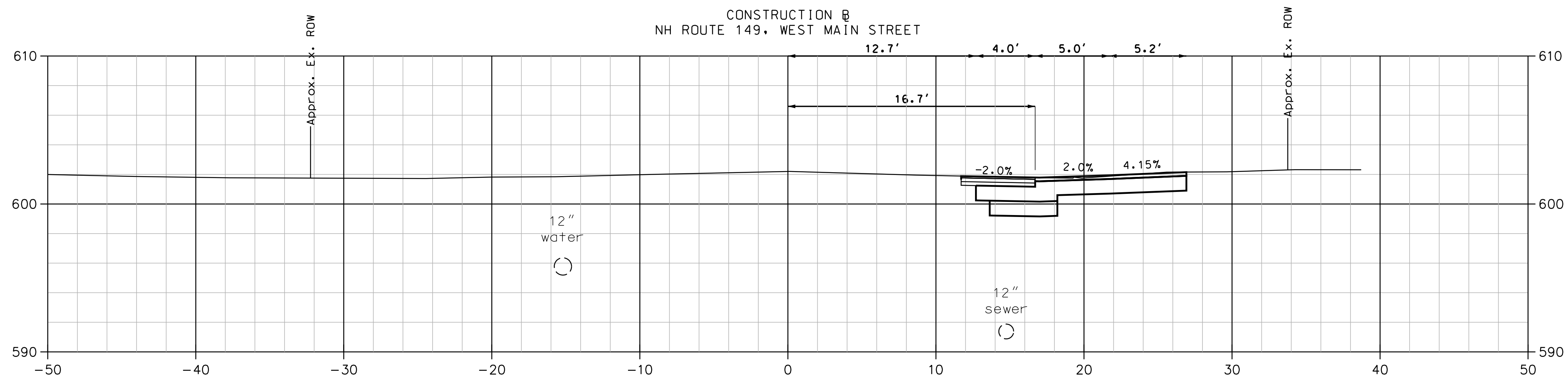
SHEET TOTALS					
COMMON EXCAV.	-	C.Y.	ROCK EXCAV.	-	C.Y.
FILL	-	C.Y.	MUCK EXCAV.	-	C.Y.
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS		
41368XS		\$\$#	\$T#		

REVISIONS AFTER PROPOSAL	
NUMBER	DATE
STATION	STATION
DESCRIPTION	DESCRIPTION

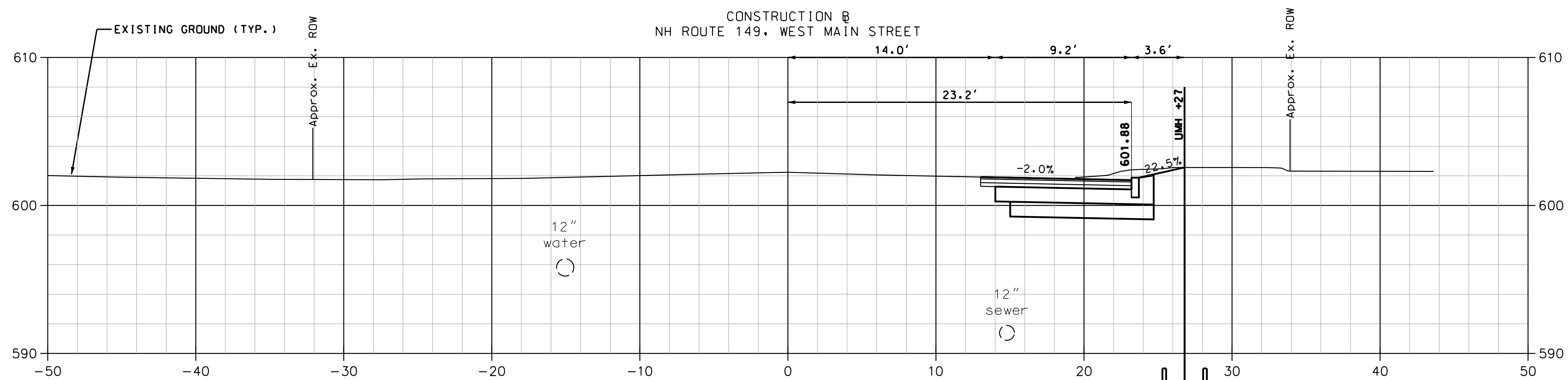
SDR PROCESSED	DATE	---
NEW DESIGN	DATE	3/28/2023
SHEET CHECKED	DATE	3/28/2023
AS BUILT DETAILS	DATE	



106+00
DRIVE RT



105+60
DRIVE RT



105+50

NOTE:
PROPOSED GRADE AT CURB
IS THE GUTTER GRADE.

D&K NO. 324277



SHEET TOTALS					
COMMON EXCAV.	—	C.Y.	ROCK EXCAV.	—	C.Y.
FILL	—	C.Y.	MUCK EXCAV.	—	C.Y.
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS		
41368XS		\$\$#	\$T#		

REVISIONS AFTER PROPOSAL

DESCRIPTION

STATION

STATION

DATE

NUMBER

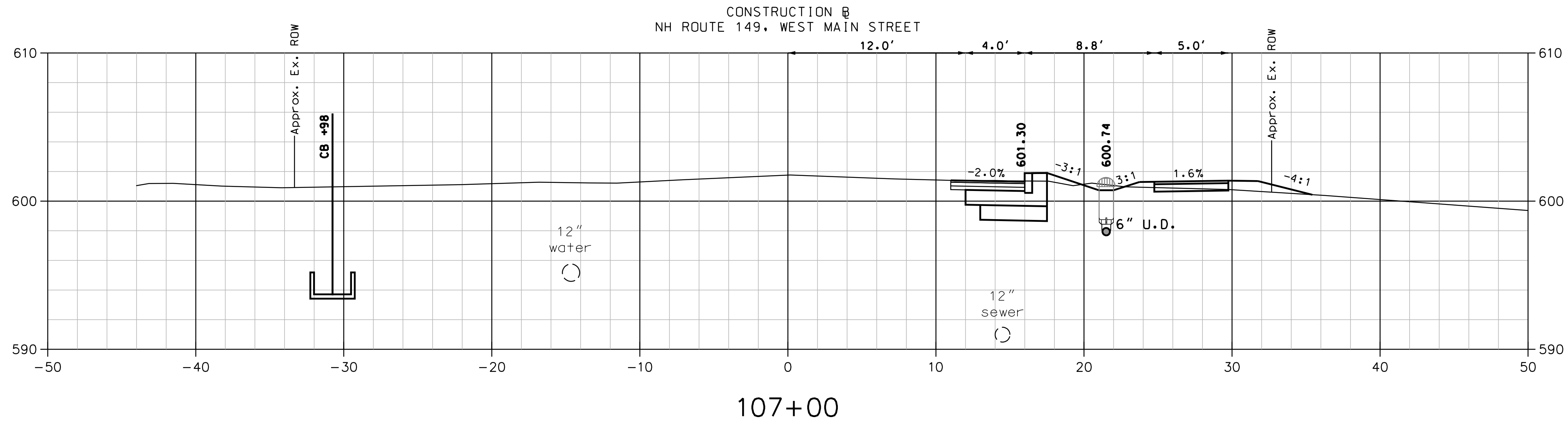
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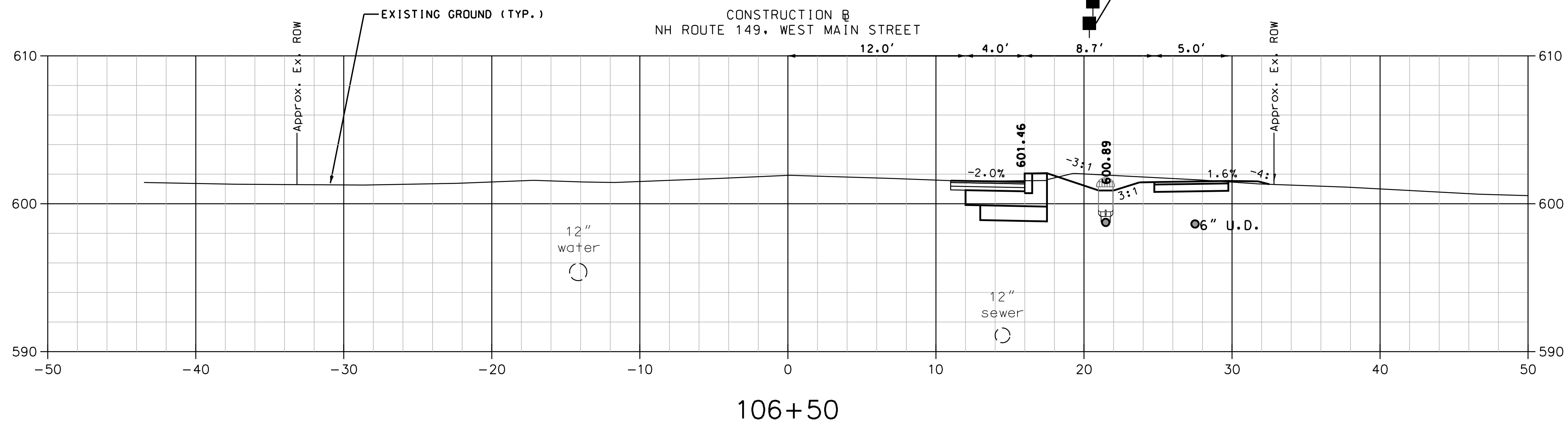
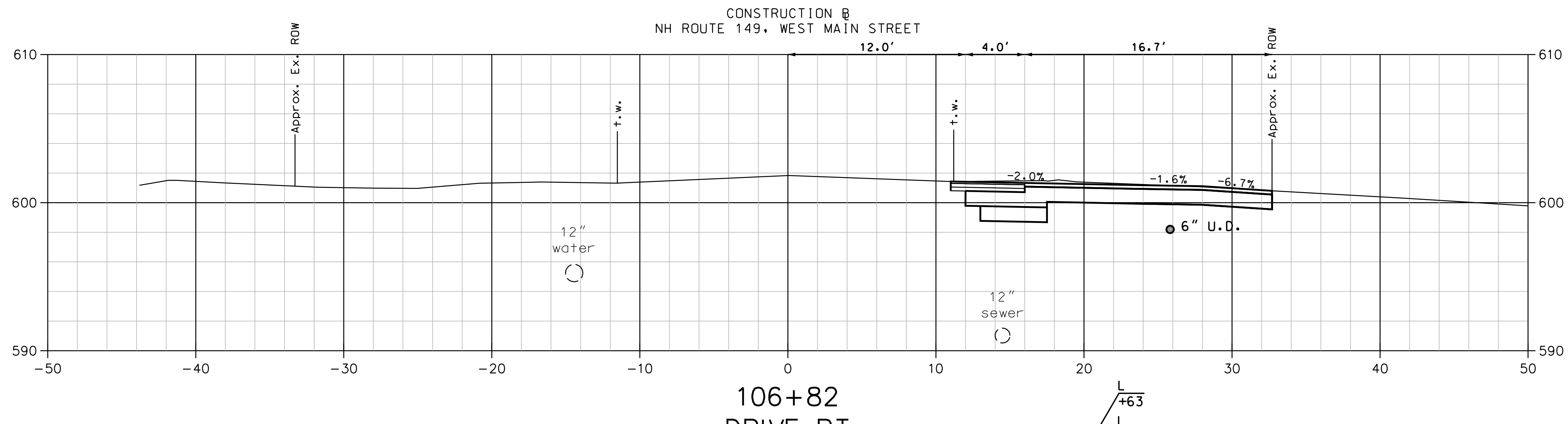
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AS BUILT DETAILS

SDR PROCESSED	---	DATE	---
NEW DESIGN	GMC	DATE	3/28/2023
SHEET CHECKED	BMB	DATE	3/28/2023
AS BUILT DETAILS		DATE	



NOTE:
PROPOSED GRADE AT CURB
IS THE GUTTER GRADE.



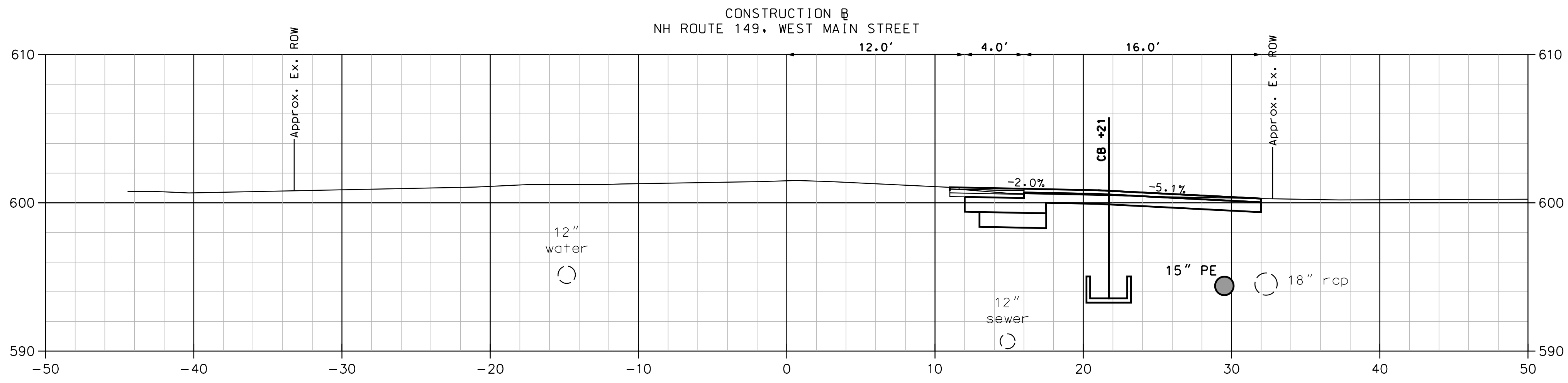
D&K NO. 324277



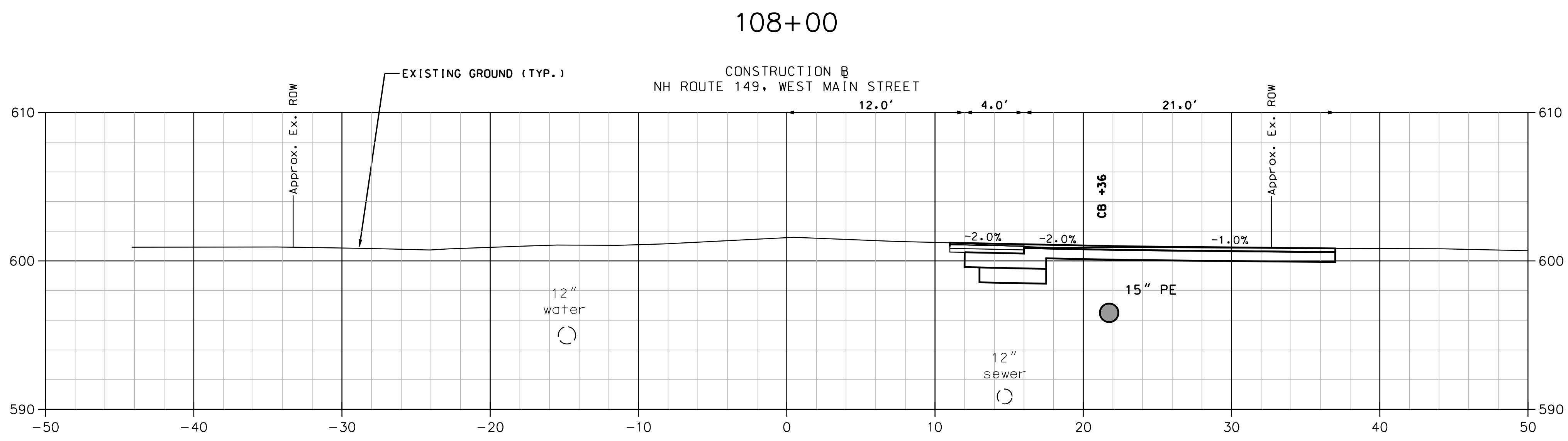
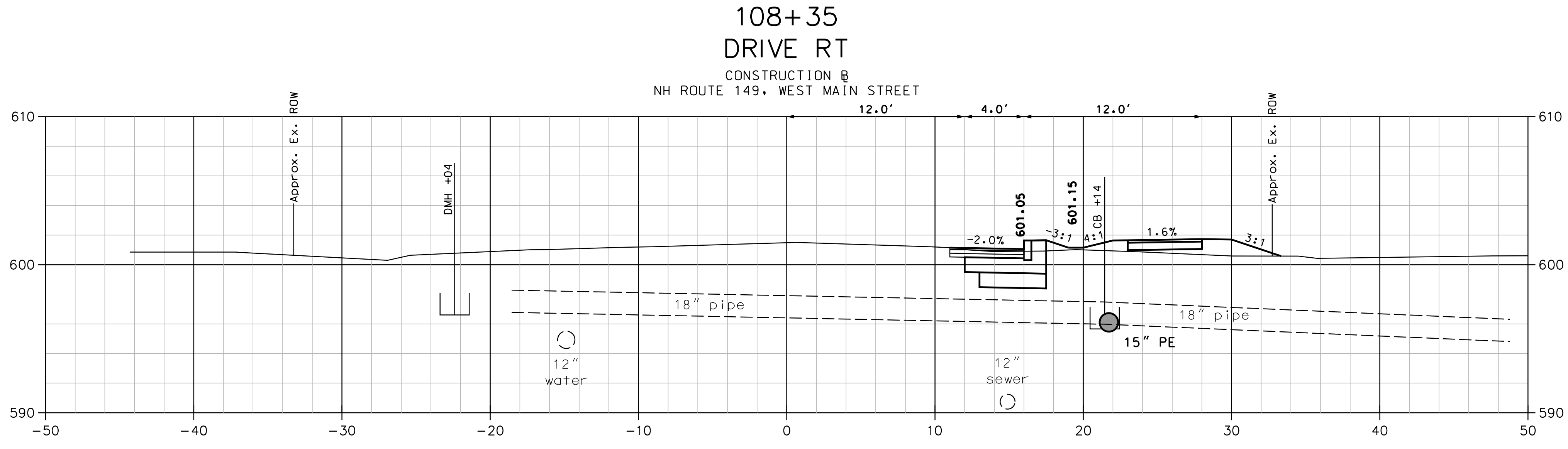
SHEET TOTALS					
COMMON EXCAV.	—	C.Y.	ROCK EXCAV.	—	C.Y.
FILL	—	C.Y.	MUCK EXCAV.	—	C.Y.
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS		
41368XS		\$\$#	\$T#		

REVISIONS AFTER PROPOSAL		STATION	DESCRIPTION
NUMBER	DATE	STATION	DESCRIPTION

SDR PROCESSED	---	DATE	---
NEW DESIGN	GMC	DATE	3/28/2023
SHEET CHECKED	BMB	DATE	3/28/2023
AS BUILT DETAILS		DATE	



NOTE:
PROPOSED GRADE AT CURB
IS THE GUTTER GRADE.



D&K NO. 324277

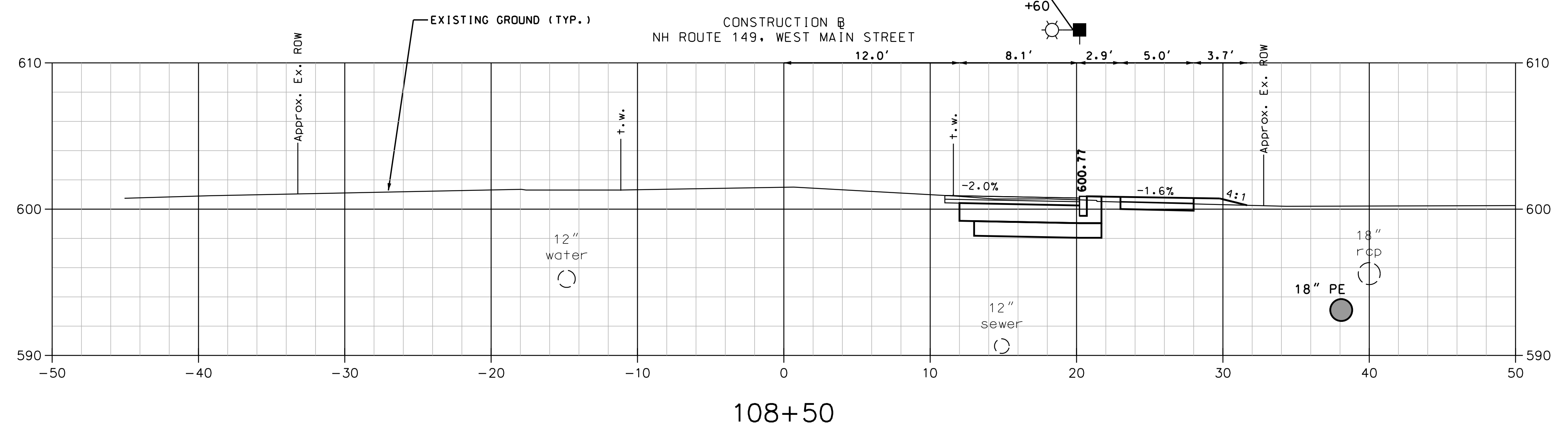
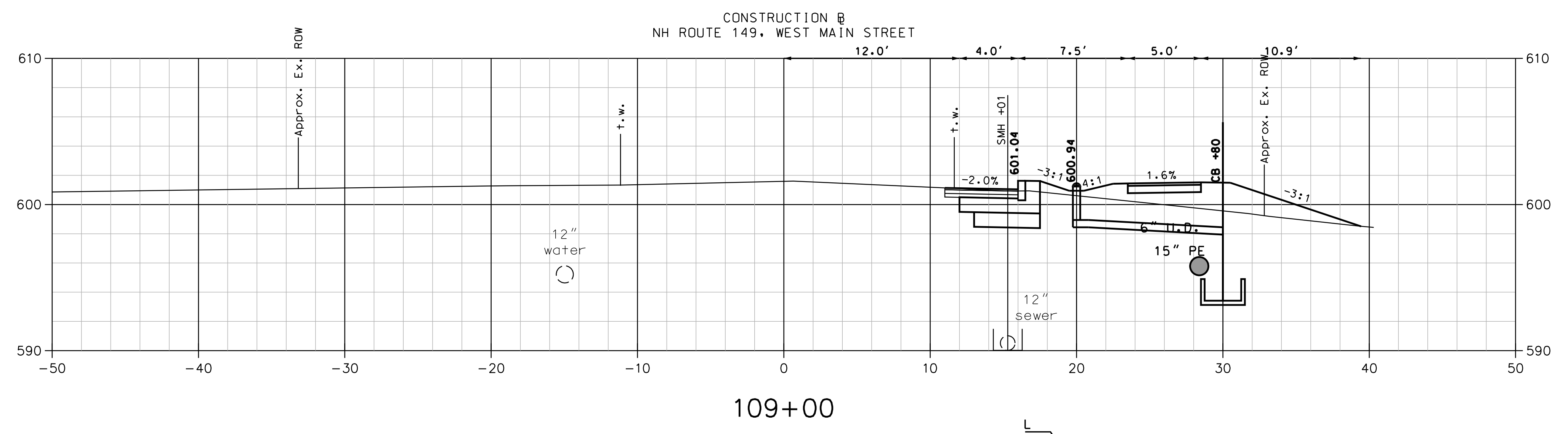
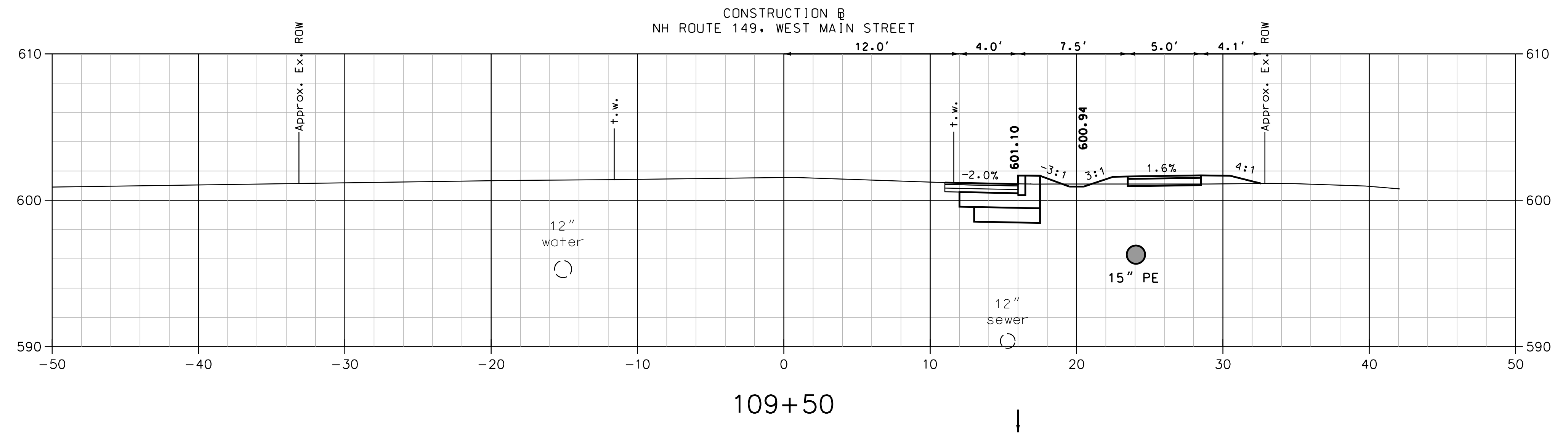


SHEET TOTALS					
COMMON EXCAV.	---	C.Y.	ROCK EXCAV.	---	C.Y.
FILL	---	C.Y.	MUCK EXCAV.	---	C.Y.
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS		
41368XS		\$\$#	\$T#		

REVISIONS AFTER PROPOSAL	
NUMBER	DATE
STATION	DESCRIPTION

SDR PROCESSED	DATE
NEW DESIGN	DATE
SHEET CHECKED	DATE
AS BUILT DETAILS	DATE

---	GMC	3/28/2023
---	BMB	3/28/2023



NOTE:
PROPOSED GRADE AT CURB
IS THE GUTTER GRADE.

D&K NO. 324277		SHEET TOTALS	
	COMMON EXCAV.	ROCK EXCAV.	
	FILL	MUCK EXCAV.	
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368XS		\$\$#	\$T#

REVISIONS AFTER PROPOSAL

DESCRIPTION

STATION

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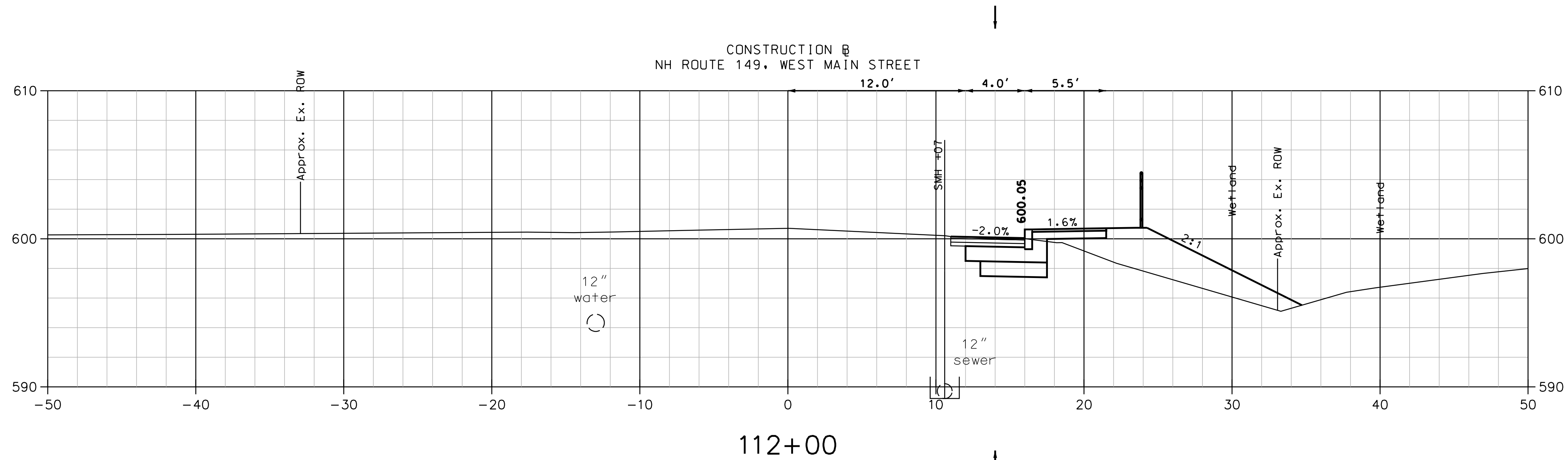
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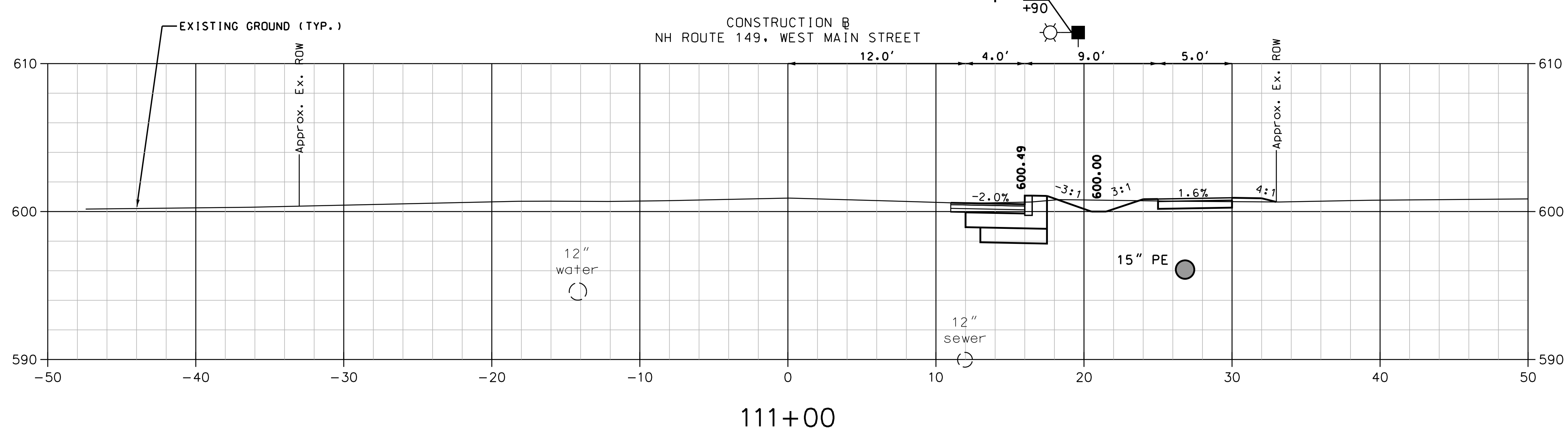
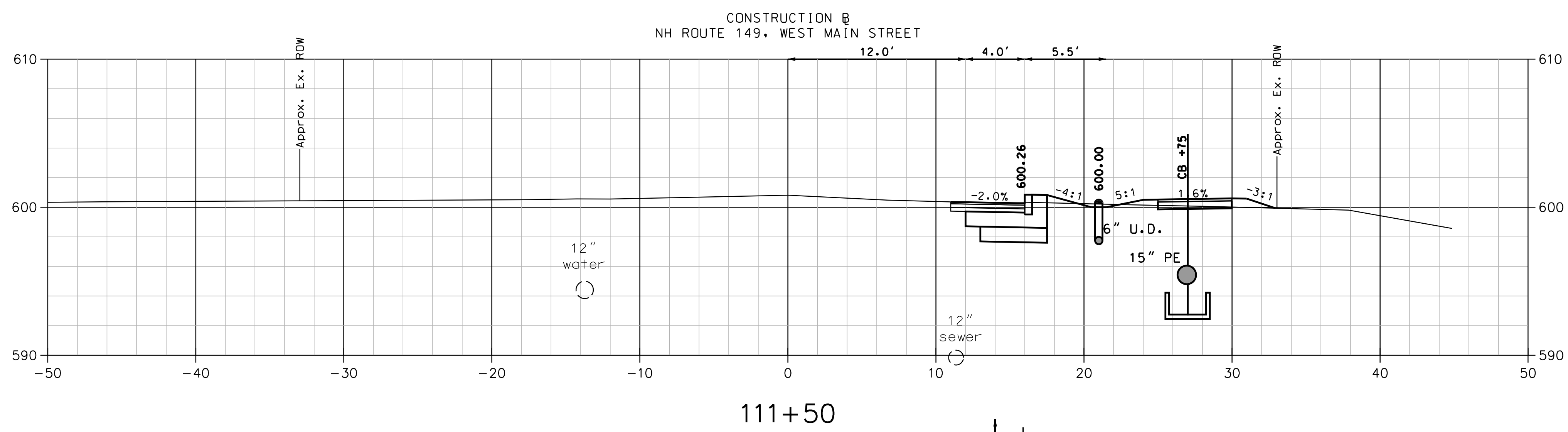
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REVISIONS AFTER PROPOSAL	
NUMBER	DATE
STATION	STATION
DESCRIPTION	DESCRIPTION

SDR PROCESSED	DATE	---
NEW DESIGN	DATE	3/28/2023
SHEET CHECKED	DATE	3/28/2023
AS BUILT DETAILS	DATE	



NOTE:
PROPOSED GRADE AT CURB
IS THE GUTTER GRADE.



D&K NO. 324277



SHEET TOTALS					
COMMON EXCAV.	---	C.Y.	ROCK EXCAV.	---	C.Y.
FILL	---	C.Y.	MUCK EXCAV.	---	C.Y.
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS		
41368XS		\$\$#	\$T#		

REVISIONS AFTER PROPOSAL

DESCRIPTION

STATION

STATION

DATE

NUMBER

DATE

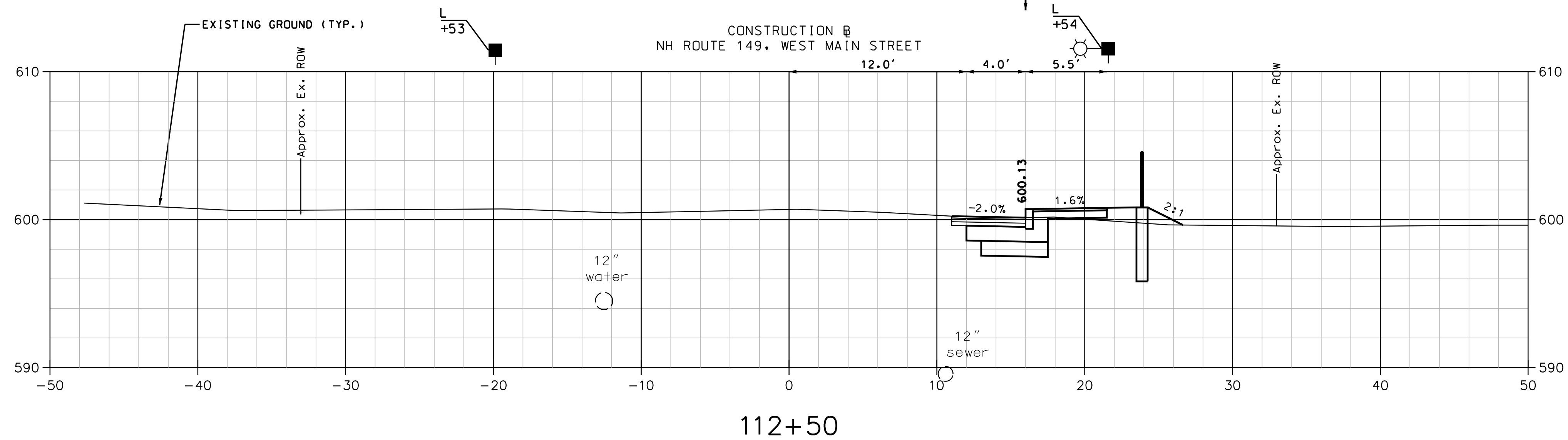
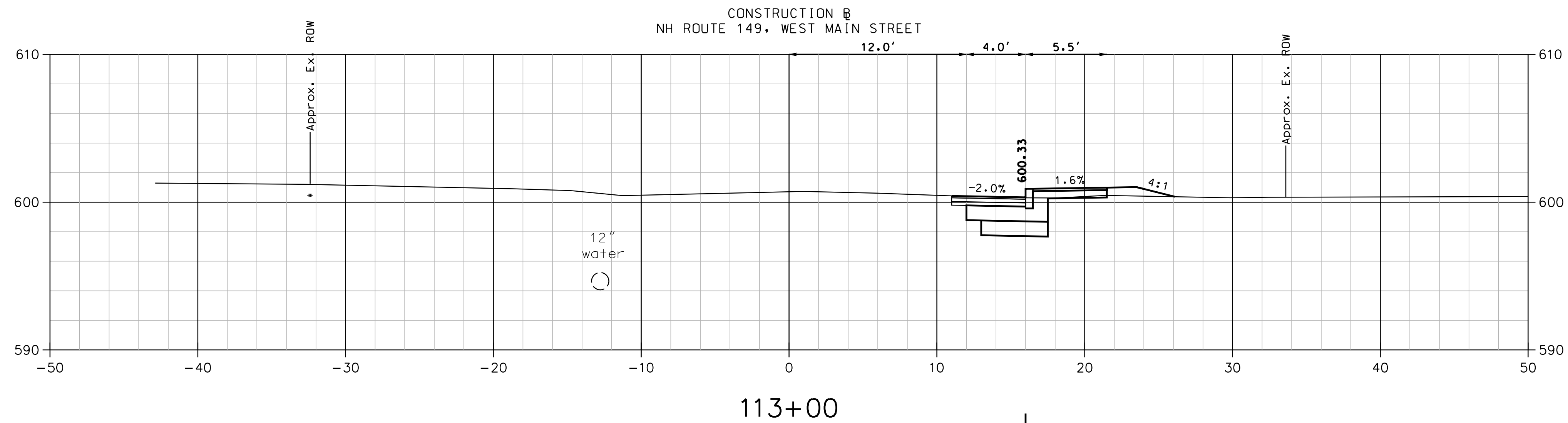
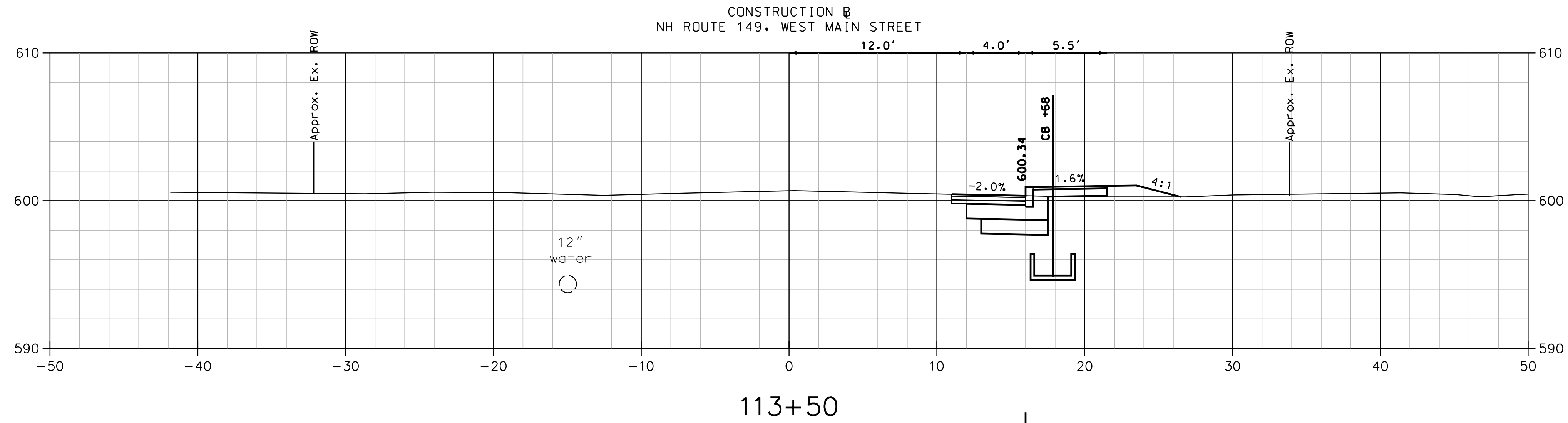
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SDR PROCESSED
NEW DESIGN
SHEET CHECKED
AS BUILT DETAILS

GMC
BMB

REVISIONS AFTER PROPOSAL	DESCRIPTION	STATION	STATION	DATE	NUMBER	DATE	DATE

SDR PROCESSED	---	DATE	---
NEW DESIGN	GMC	DATE	3/28/2023
SHEET CHECKED	BMB	DATE	3/28/2023
AS BUILT DETAILS		DATE	



NOTE:
PROPOSED GRADE AT CURB
IS THE GUTTER GRADE.

D&K NO. 324277



SHEET TOTALS					
COMMON EXCAV.	---	C.Y.	ROCK EXCAV.	---	C.Y.
FILL	---	C.Y.	MUCK EXCAV.	---	C.Y.
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS		
41368XS					

REVISIONS AFTER PROPOSAL

DESCRIPTION

STATION

STATION

DATE

NUMBER

DATE

SDR PROCESSED

DATE

NEW DESIGN

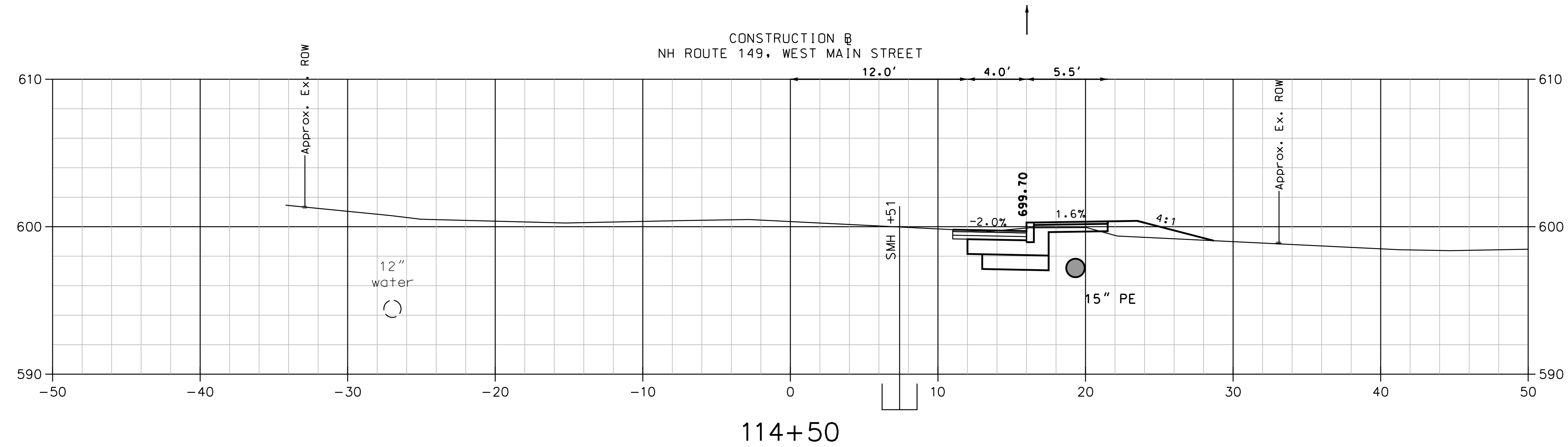
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SHEET CHECKED

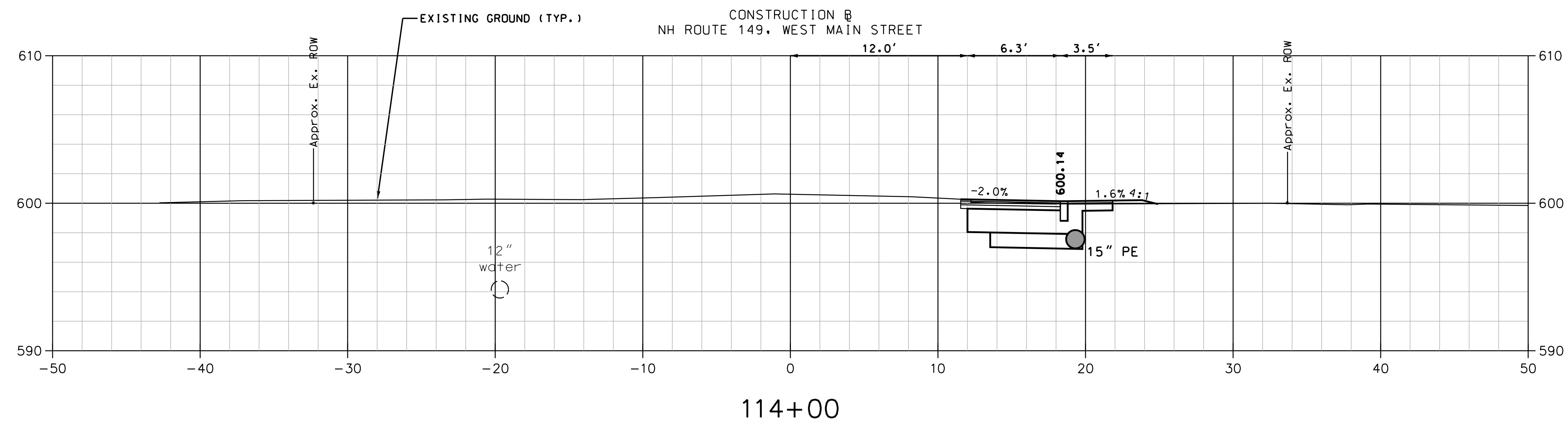
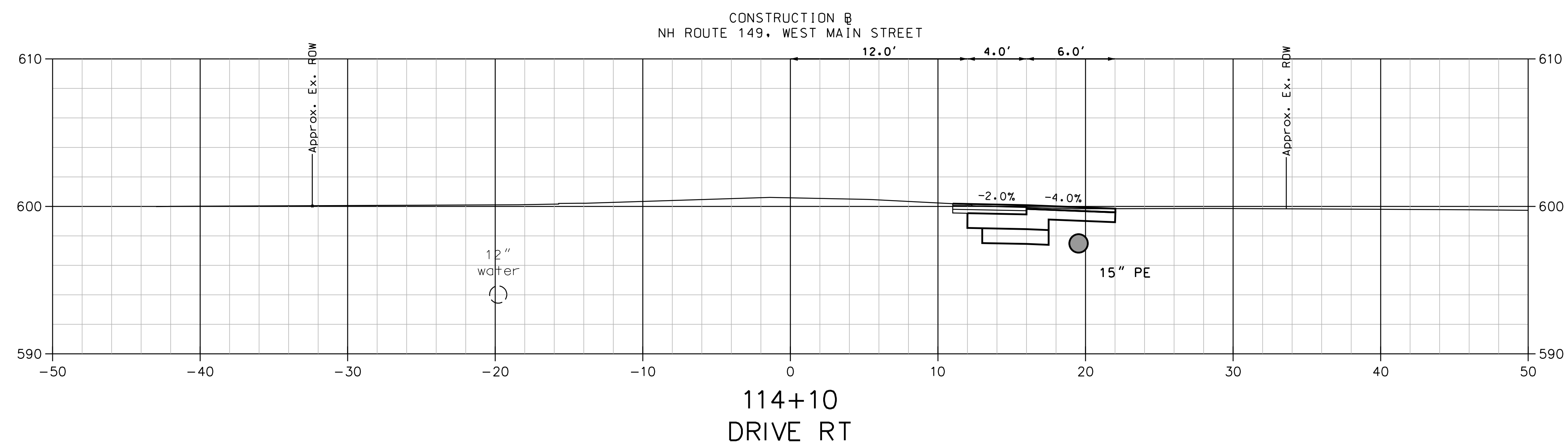
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AS BUILT DETAILS

SDR PROCESSED	---	DATE	---
NEW DESIGN	GMC	DATE	3/28/2023
SHEET CHECKED	BMB	DATE	3/28/2023
AS BUILT DETAILS		DATE	



NOTE:
PROPOSED GRADE AT CURB
IS THE GUTTER GRADE.



D&K NO. 324277



SHEET TOTALS			
COMMON EXCAV.	---	C.Y.	---
FILL	---	C.Y.	---
ROCK EXCAV.	---	C.Y.	---
MUCK EXCAV.	---	C.Y.	---
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368XS		\$\$#	\$\$#

REVISIONS AFTER PROPOSAL

DESCRIPTION

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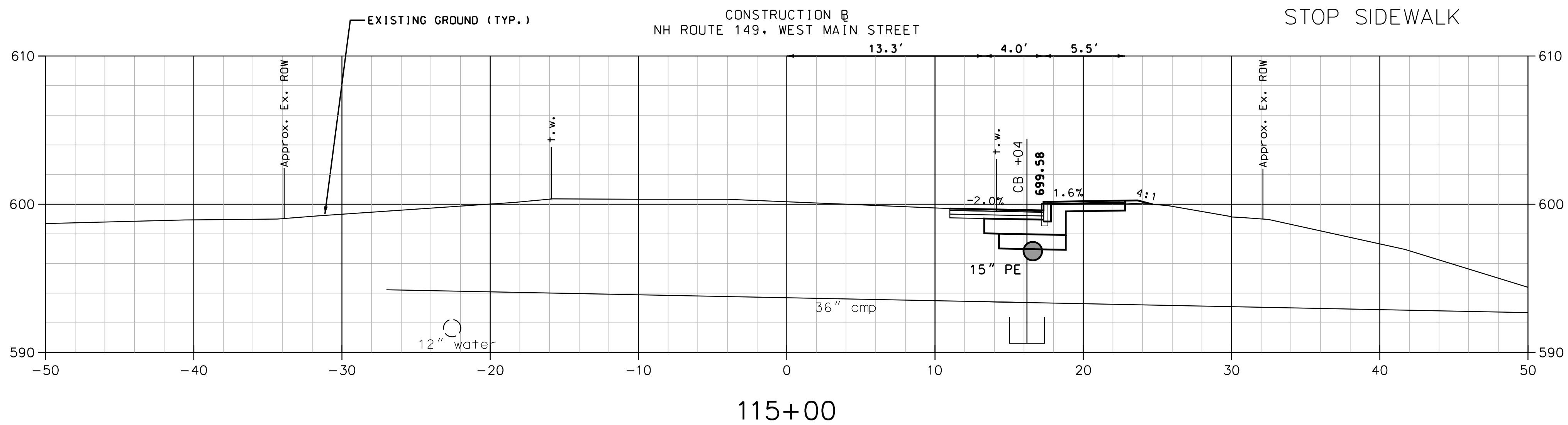
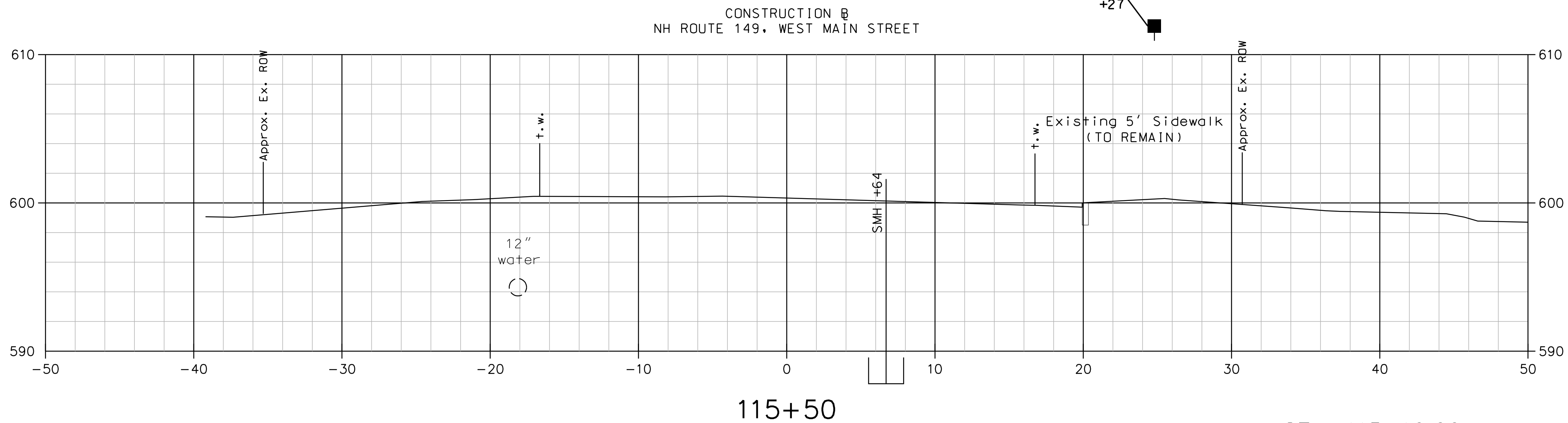
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SDR PROCESSED	---	DATE	---
NEW DESIGN	GMC	DATE	3/28/2023
SHEET CHECKED	BMB	DATE	3/28/2023
AS BUILT DETAILS		DATE	

NUMBER	DATE	STATION	DESCRIPTION



NOTE:
PROPOSED GRADE AT CURB
IS THE GUTTER GRADE.



D&K NO. 324277		SHEET TOTALS	
COMMON EXCAV.	---	C.Y.	---
FILL	---	C.Y.	---
ROCK EXCAV.	---	C.Y.	---
MUCK EXCAV.	---	C.Y.	---
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368XS		\$\$#	\$T#



REVISIONS AFTER PROPOSAL

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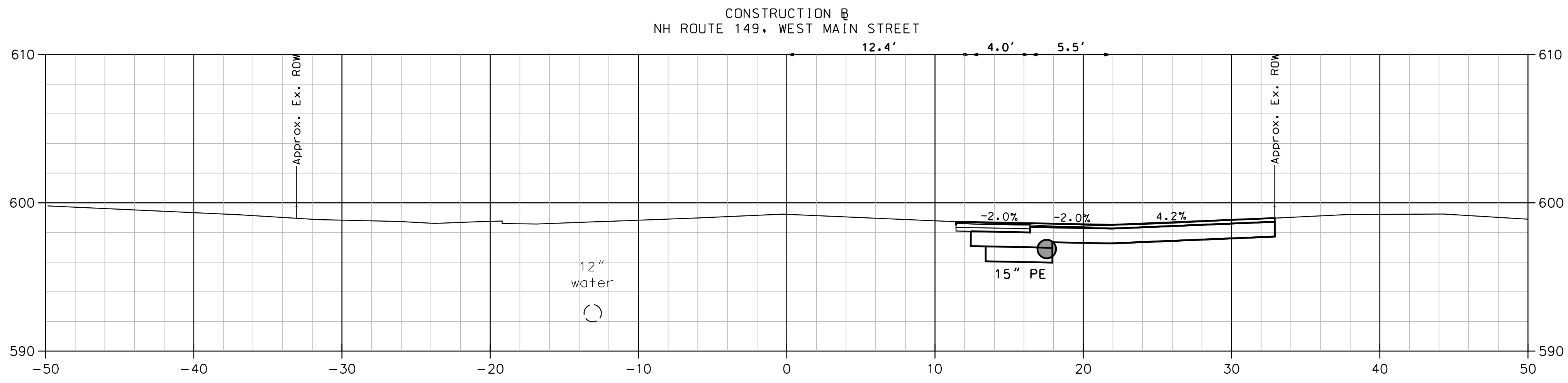
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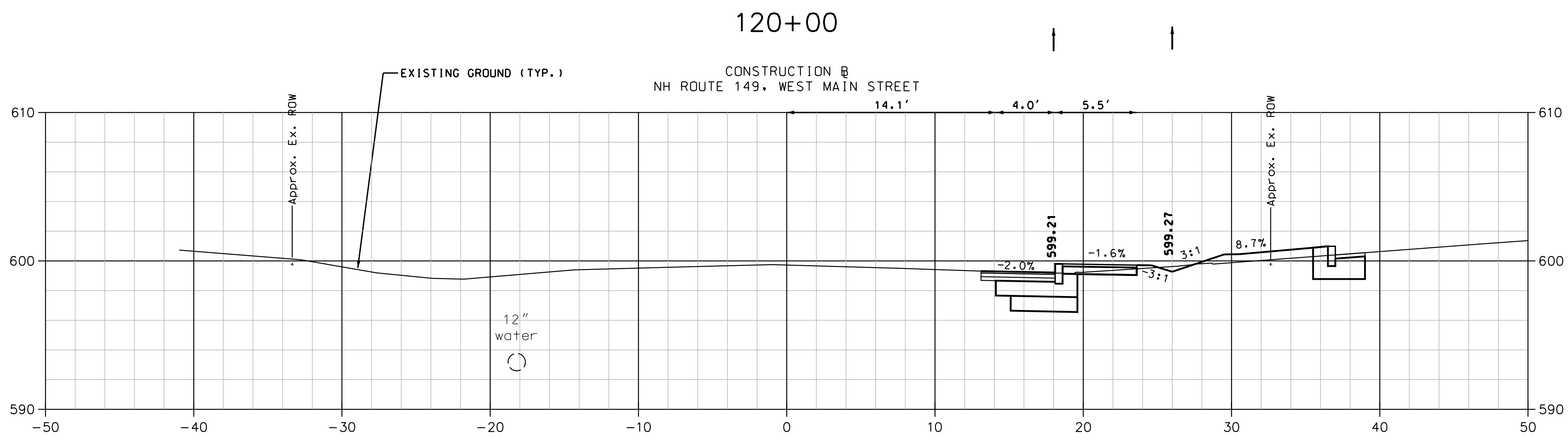
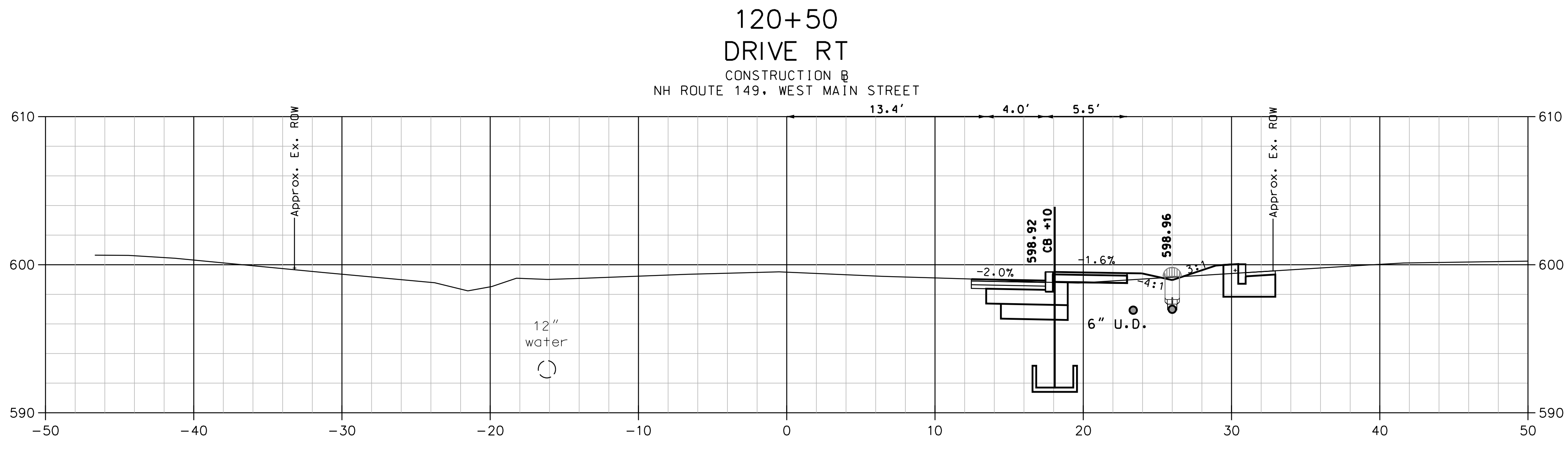
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REVISIONS AFTER PROPOSAL		STATION	DESCRIPTION
NUMBER	DATE	STATION	DESCRIPTION

SDR PROCESSED	DATE	---
NEW DESIGN	DATE	3/28/2023
SHEET CHECKED	DATE	3/28/2023
AS BUILT DETAILS	DATE	



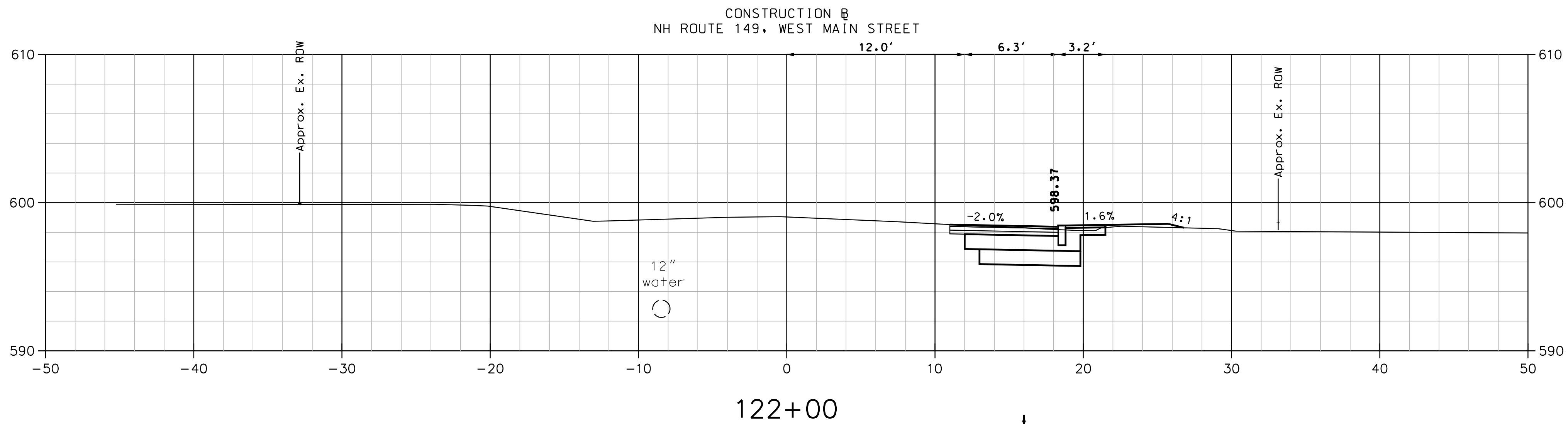
NOTE:
PROPOSED GRADE AT CURB
IS THE GUTTER GRADE.



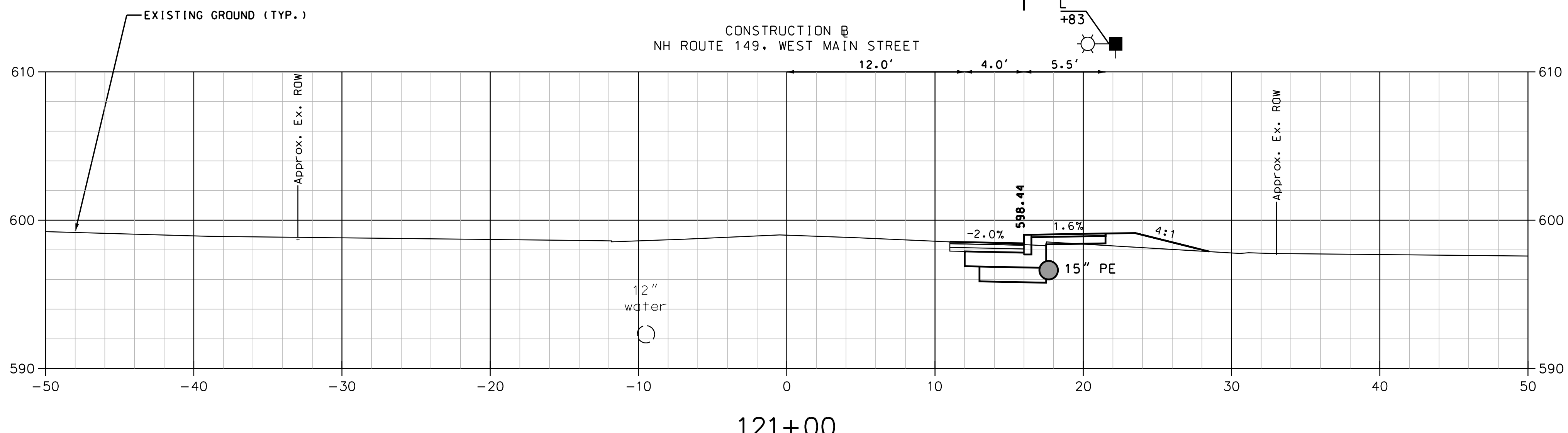
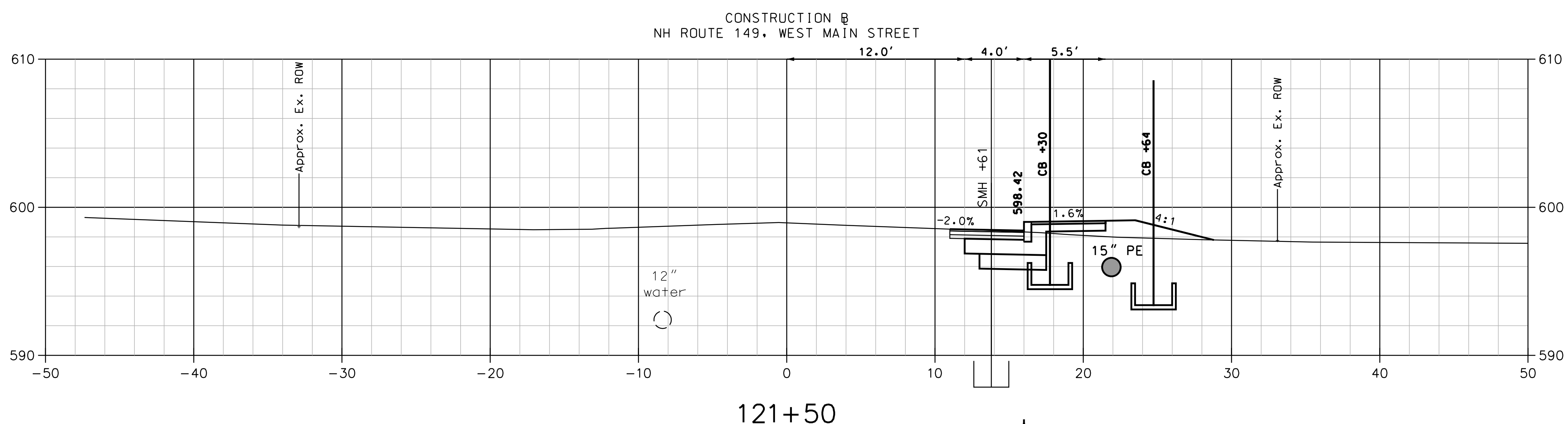
	SHEET TOTALS			
	COMMON EXCAV.	C.Y.	ROCK EXCAV.	C.Y.
	FILL	C.Y.	MUCK EXCAV.	C.Y.
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS	
41368XS		\$\$#	\$T#	

REVISIONS AFTER PROPOSAL		STATION	DESCRIPTION
NUMBER	DATE	STATION	DESCRIPTION

SDR PROCESSED	---	DATE	---
NEW DESIGN	GMC	DATE	3/28/2023
SHEET CHECKED	BMB	DATE	3/28/2023
AS BUILT DETAILS		DATE	



NOTE:
PROPOSED GRADE AT CURB
IS THE GUTTER GRADE.



D&K NO. 324277



SHEET TOTALS					
COMMON EXCAV.	—	C.Y.	ROCK EXCAV.	—	C.Y.
FILL	—	C.Y.	MUCK EXCAV.	—	C.Y.
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS		
41368XS		\$\$#	\$T#		

REVISIONS AFTER PROPOSAL

DESCRIPTION

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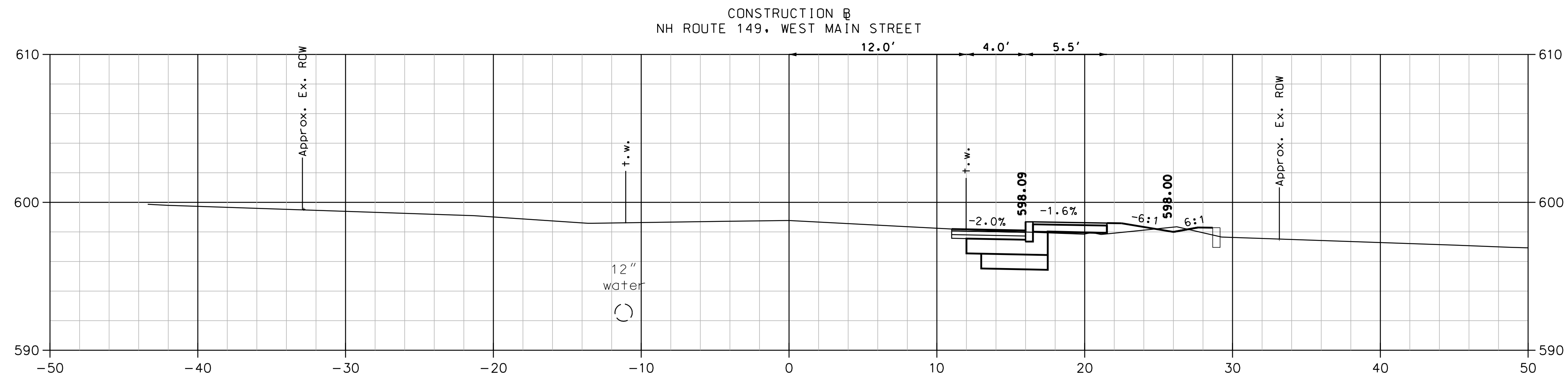
SDR PROCESSED
NEW DESIGN
SHEET CHECKED
AS BUILT DETAILS

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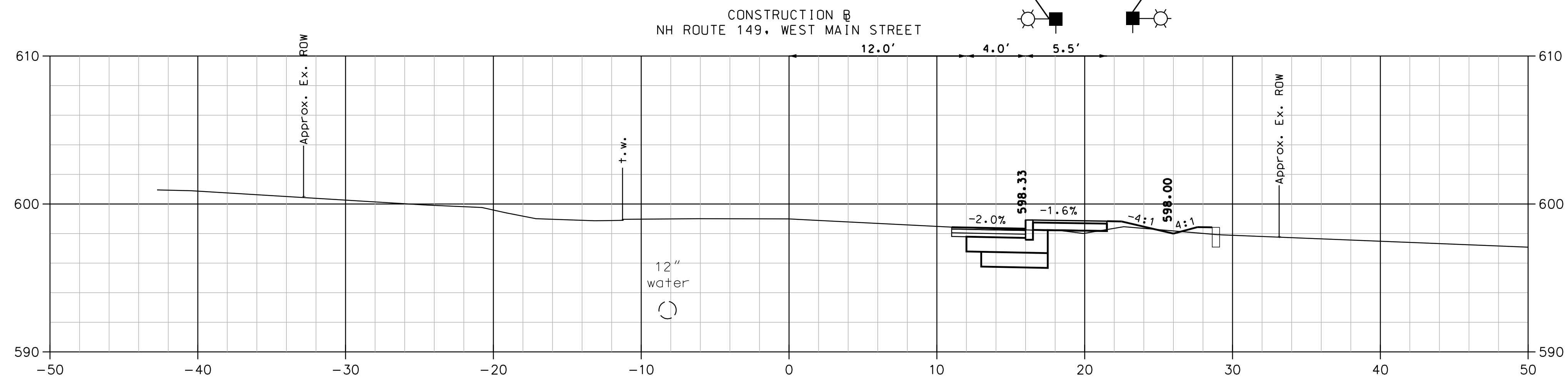
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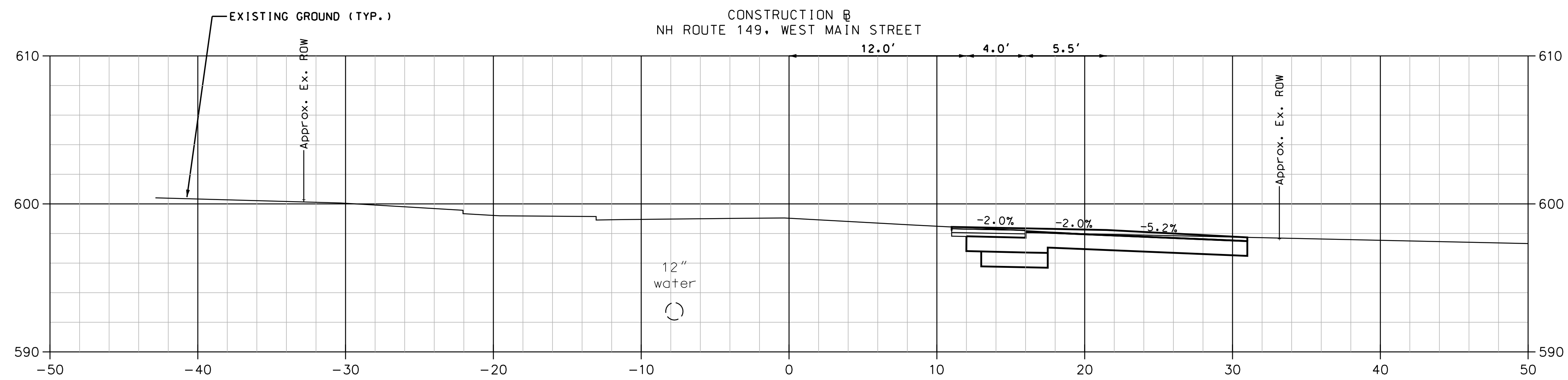
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123+50



123+00



122+50
DRIVE RT

NOTE:
PROPOSED GRADE AT CURB
IS THE GUTTER GRADE.

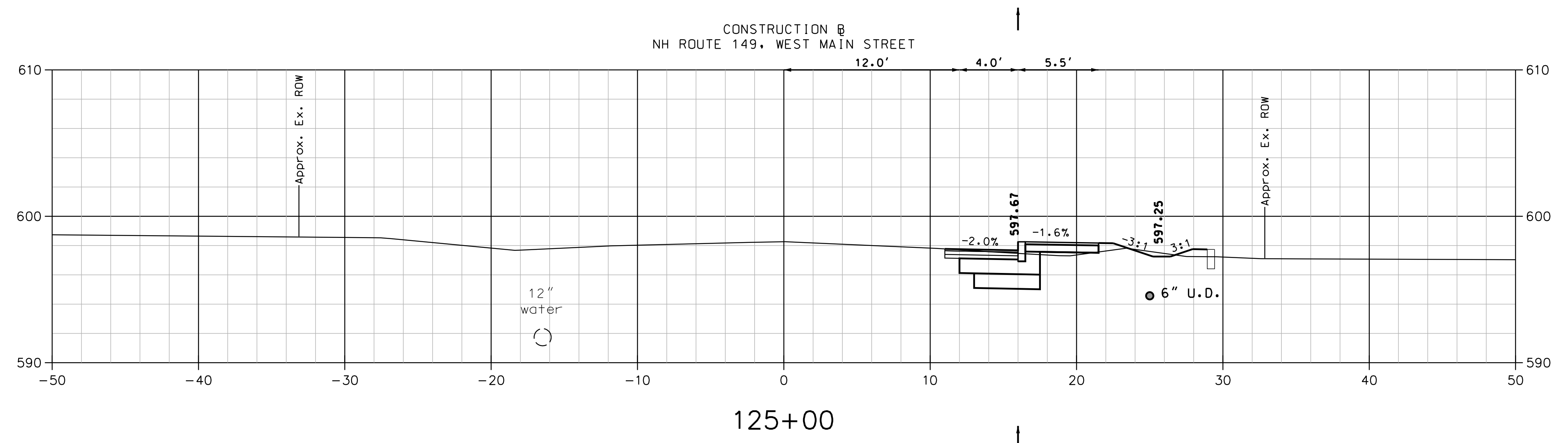
D&K NO. 324277



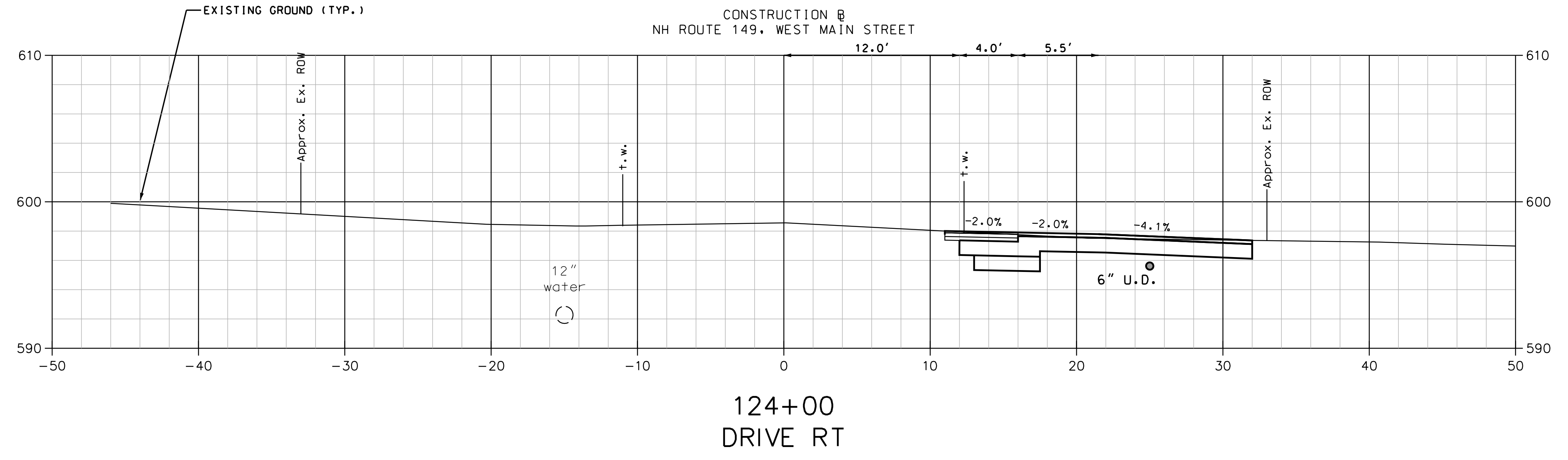
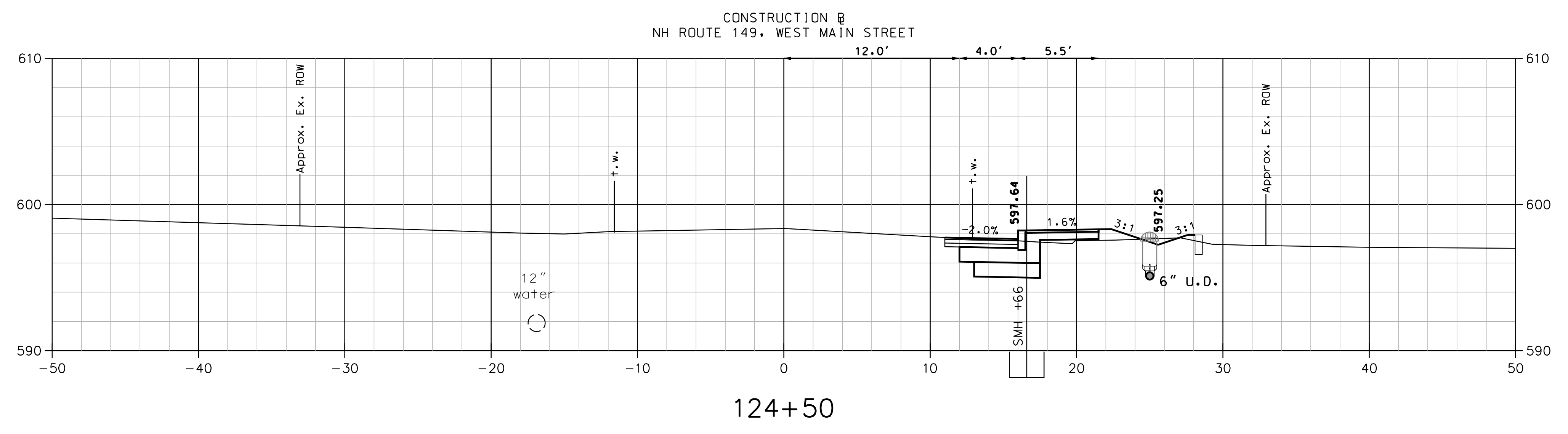
SHEET TOTALS					
COMMON EXCAV.	---	C.Y.	ROCK EXCAV.	---	C.Y.
FILL	---	C.Y.	MUCK EXCAV.	---	C.Y.
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS		
41368XS		\$S#	\$T#		

REVISIONS AFTER PROPOSAL		STATION	DESCRIPTION
NUMBER	DATE	STATION	DESCRIPTION

SDR PROCESSED	---	DATE	---
NEW DESIGN	GMC	DATE	3/28/2023
SHEET CHECKED	BMB	DATE	3/28/2023
AS BUILT DETAILS		DATE	



NOTE:
PROPOSED GRADE AT CURB
IS THE GUTTER GRADE.



D&K NO. 324277



SHEET TOTALS		COMMON EXCAV. _____ C.Y.		ROCK EXCAV. _____ C.Y.	
FILL _____ C.Y.		MUCK EXCAV. _____ C.Y.			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS		
41368XS		\$\$#	\$T#		

REVISIONS AFTER PROPOSAL

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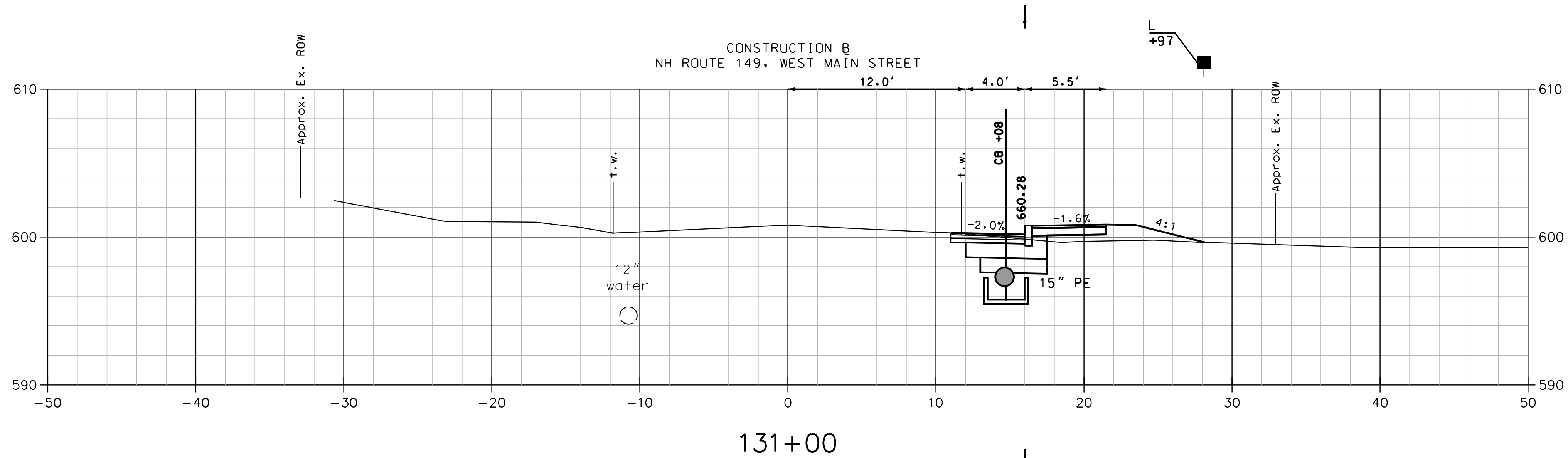
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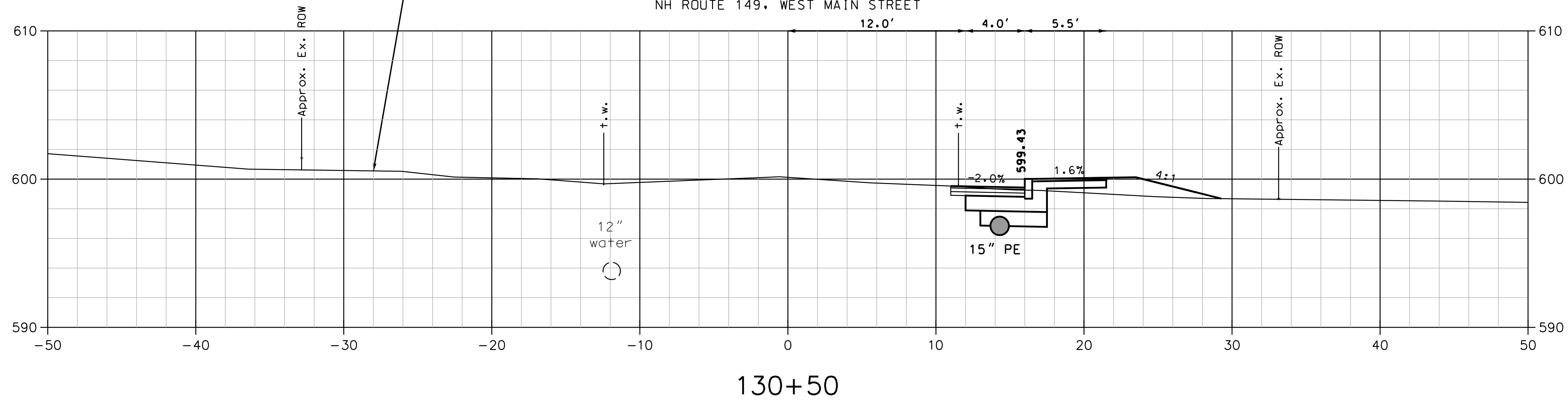
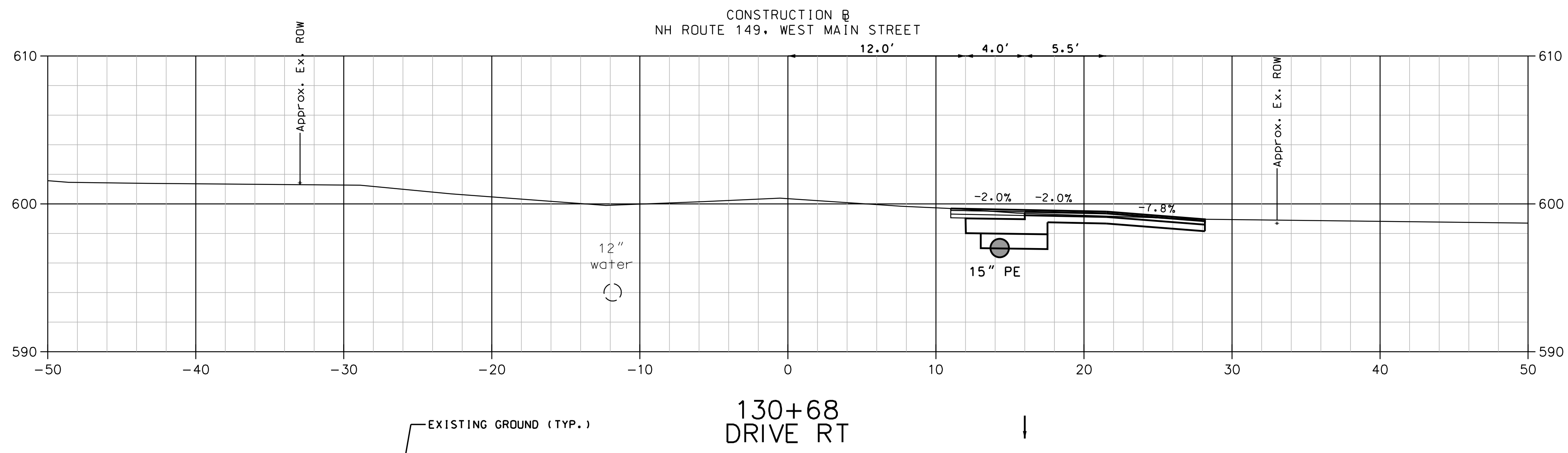
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REVISIONS AFTER PROPOSAL	
NUMBER	DATE
STATION	DESCRIPTION

SDR PROCESSED	DATE
NEW DESIGN	DATE
SHEET CHECKED	DATE
AS BUILT DETAILS	DATE



NOTE:
PROPOSED GRADE AT CURB
IS THE GUTTER GRADE.



D&K NO. 324277

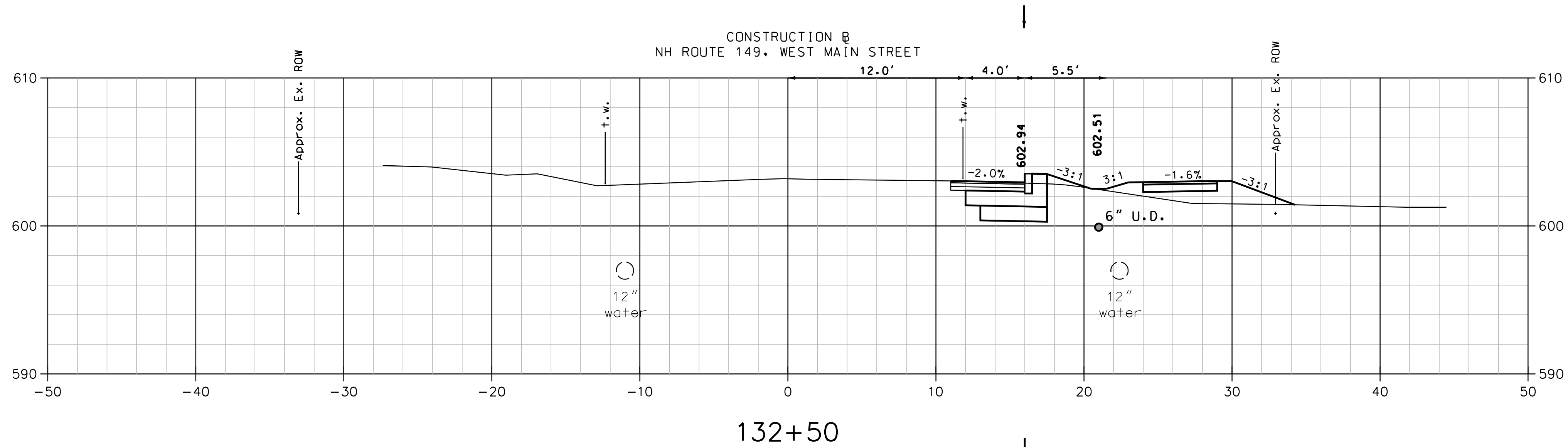


SHEET TOTALS		COMMON EXCAV. _____ C.Y.		ROCK EXCAV. _____ C.Y.	
		FILL _____ C.Y.		MUCK EXCAV. _____ C.Y.	
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS		
41368XS		\$\$#	\$T#\$		

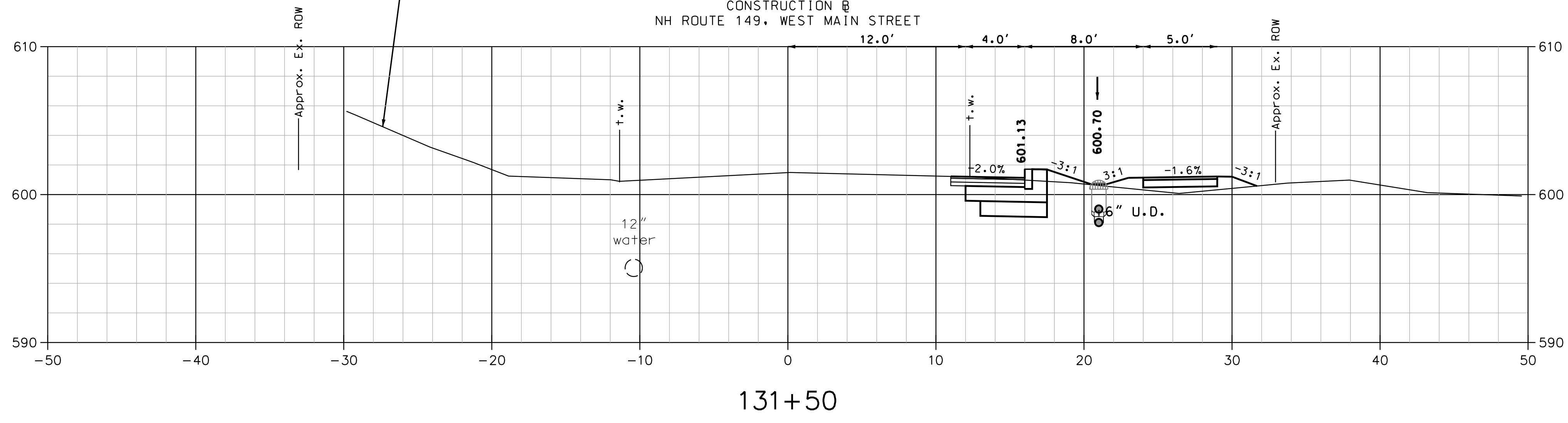
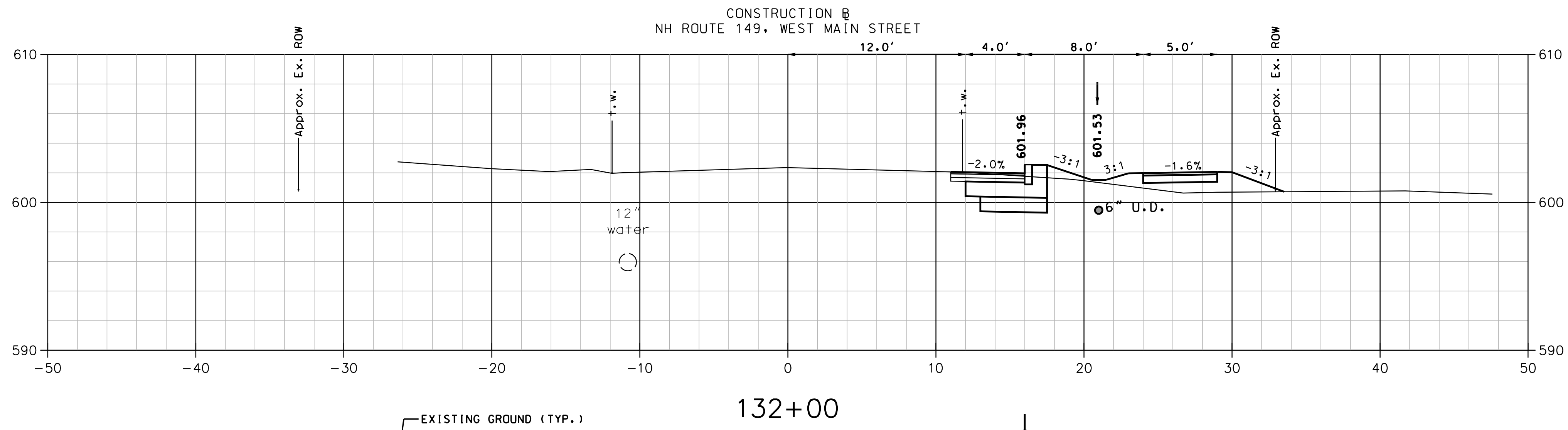
REVISIONS AFTER PROPOSAL	
NUMBER	DATE
STATION	DESCRIPTION

SDR PROCESSED	DATE
NEW DESIGN	DATE
SHEET CHECKED	DATE
AS BUILT DETAILS	DATE

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GMC	3/28/2023
BMB	3/28/2023



NOTE:
PROPOSED GRADE AT CURB
IS THE GUTTER GRADE.



D&K NO. 324277

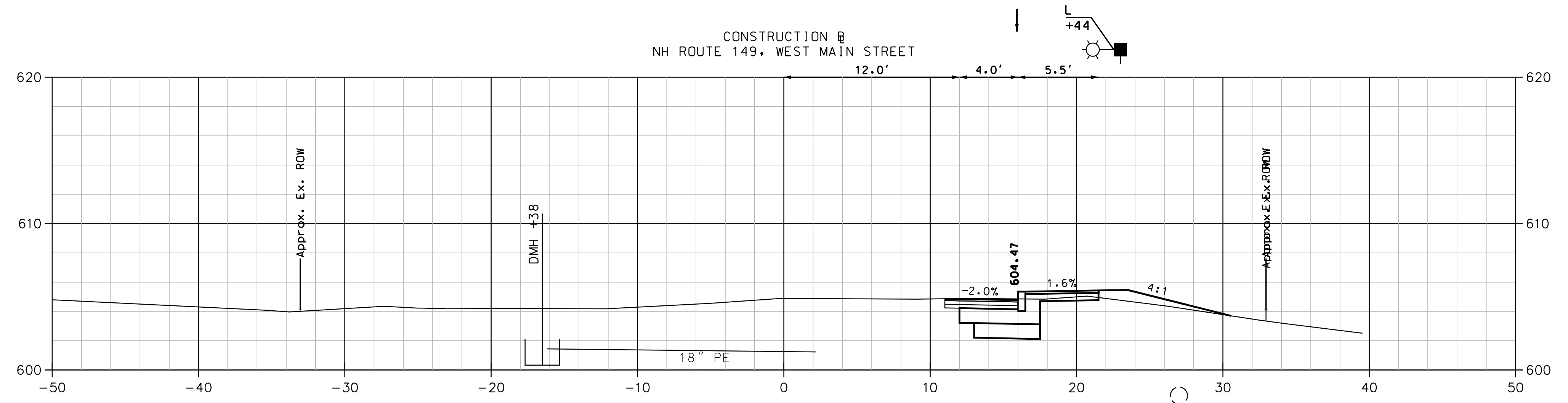


SHEET TOTALS					
COMMON EXCAV.	—	C.Y.	ROCK EXCAV.	—	C.Y.
FILL	—	C.Y.	MUCK EXCAV.	—	C.Y.
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS		
41368XS		\$\$#	\$T#		

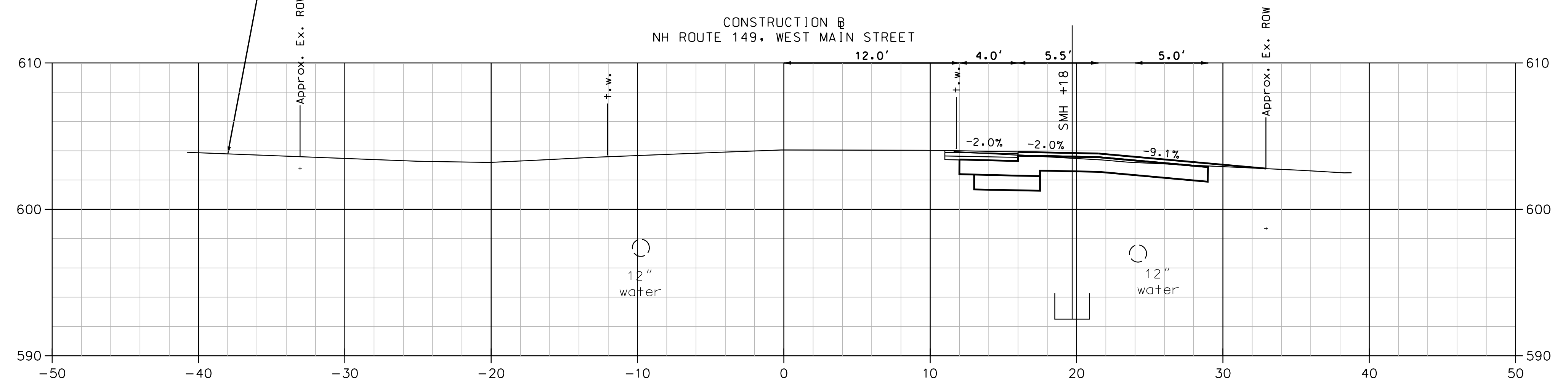
REVISIONS AFTER PROPOSAL		STATION	DESCRIPTION
NUMBER	DATE	STATION	DESCRIPTION

SDR PROCESSED	---	DATE	---
NEW DESIGN	GMC	DATE	3/28/2023
SHEET CHECKED	BMB	DATE	3/28/2023
AS BUILT DETAILS		DATE	

NOTE:
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IS THE GUTTER GRADE.



133+50



133+00
DRIVE RT

D&K NO. 324277



SHEET TOTALS					
COMMON EXCAV.	—	C.Y.	ROCK EXCAV.	—	C.Y.
FILL	—	C.Y.	MUCK EXCAV.	—	C.Y.
DGN	41368XS	STATE PROJECT NO.	SHEET NO.	\$S#	TOTAL SHEETS
				\$T#	

REVISIONS AFTER PROPOSAL

DESCRIPTION

STATION

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SDR PROCESSED
NEW DESIGN
SHEET CHECKED
AS BUILT DETAILS

DATE

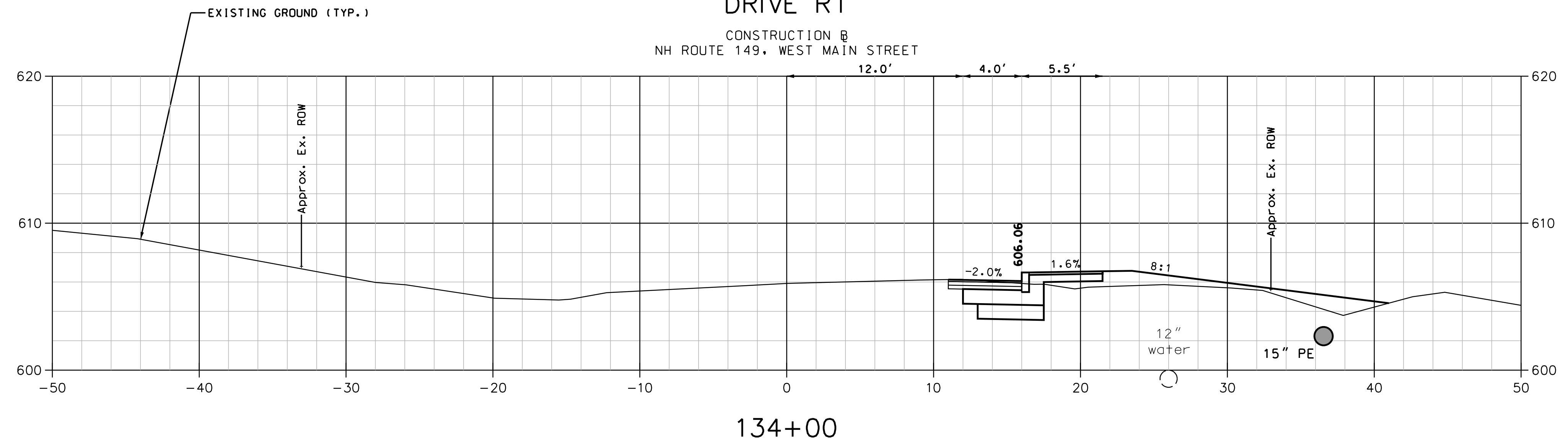
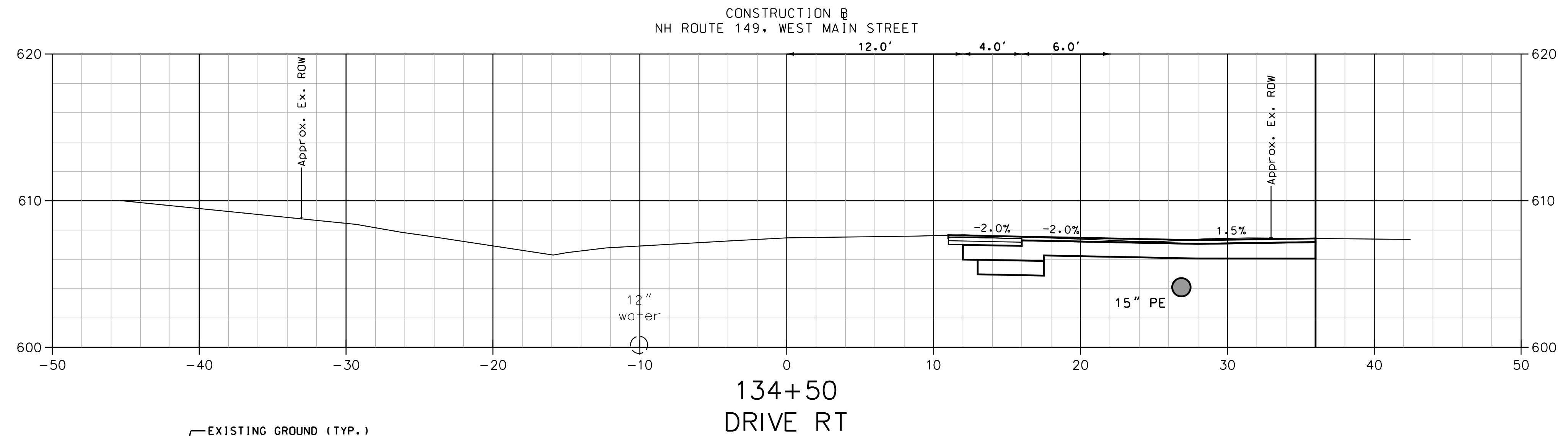
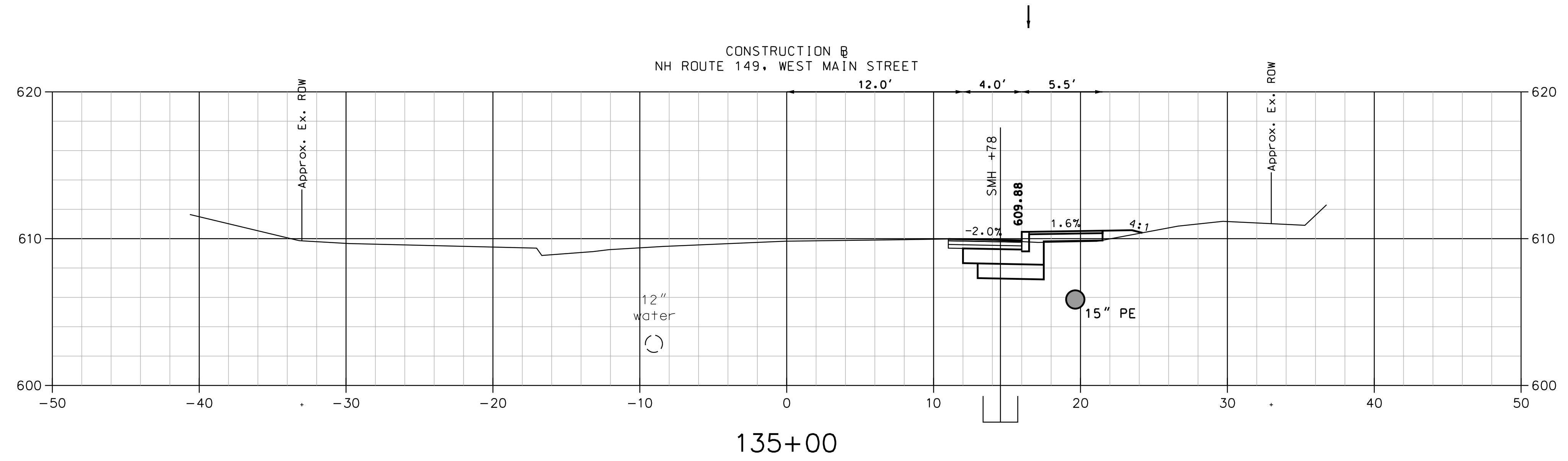
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NOTE:
PROPOSED GRADE AT CURB
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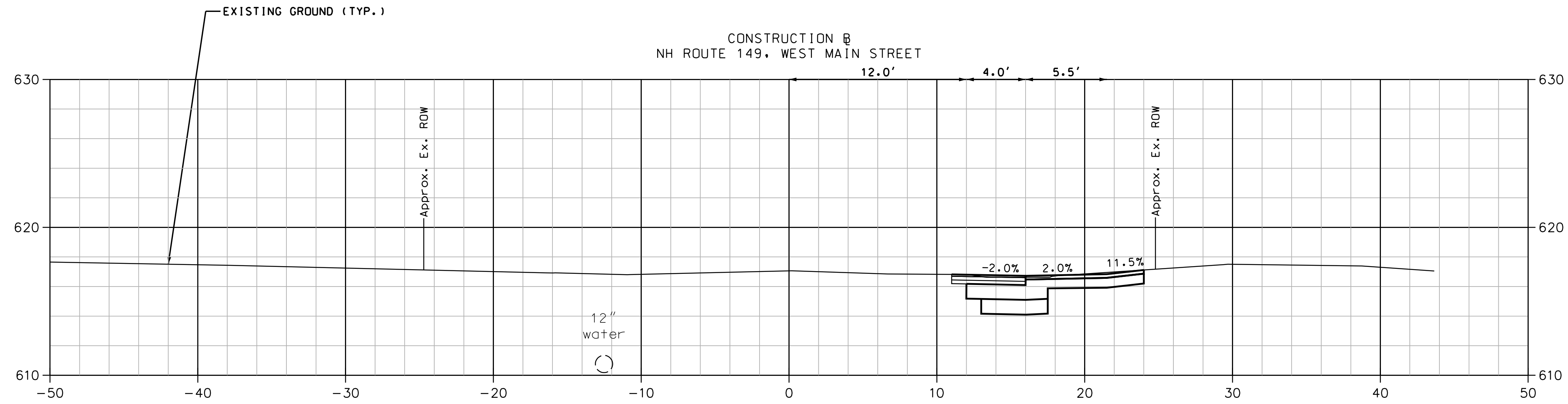
D&K NO. 324277



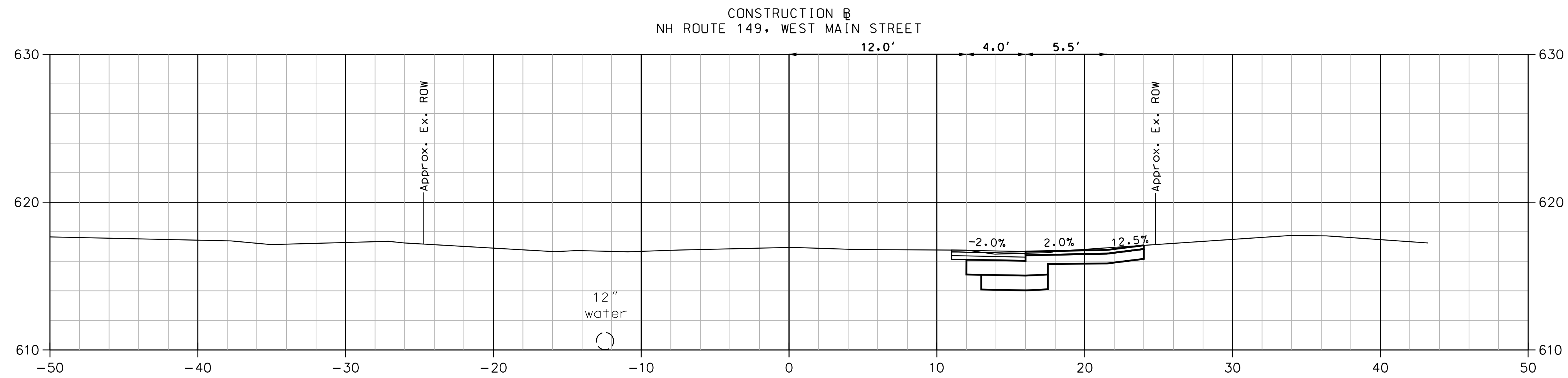
SHEET TOTALS					
COMMON EXCAV.	—	C.Y.	ROCK EXCAV.	—	C.Y.
FILL	—	C.Y.	MUCK EXCAV.	—	C.Y.
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS		
41368XS		\$\$#	\$T#		

REVISIONS AFTER PROPOSAL	
STATION	DESCRIPTION
NUMBER	DATE

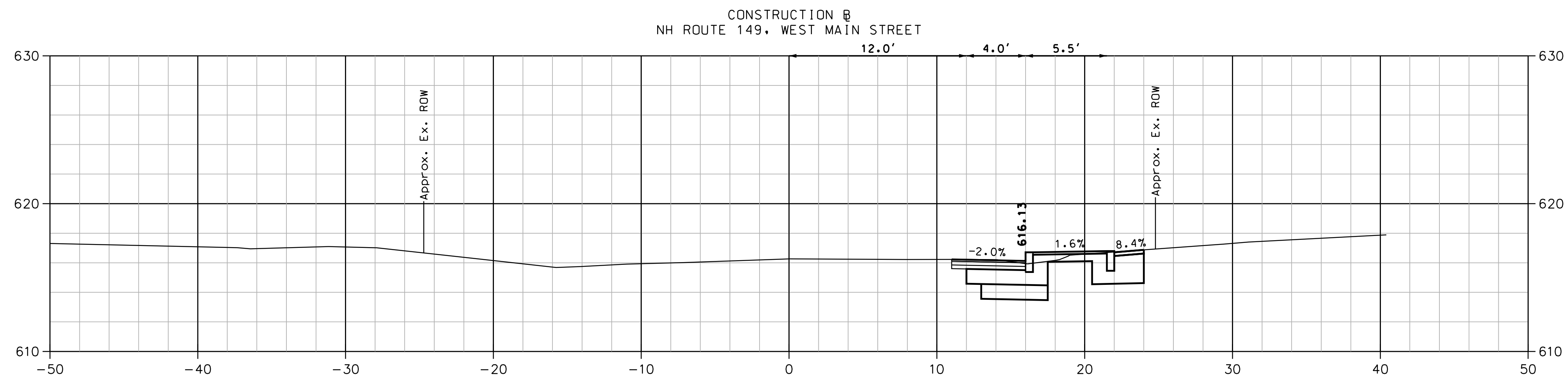
SDR PROCESSED	---	DATE	---
NEW DESIGN	GMC	DATE	3/28/2023
SHEET CHECKED	BMB	DATE	3/28/2023
AS BUILT DETAILS		DATE	



137+00
DRIVE RT



136+90
DRIVE RT



136+50

NOTE:
PROPOSED GRADE AT CURB
IS THE GUTTER GRADE.

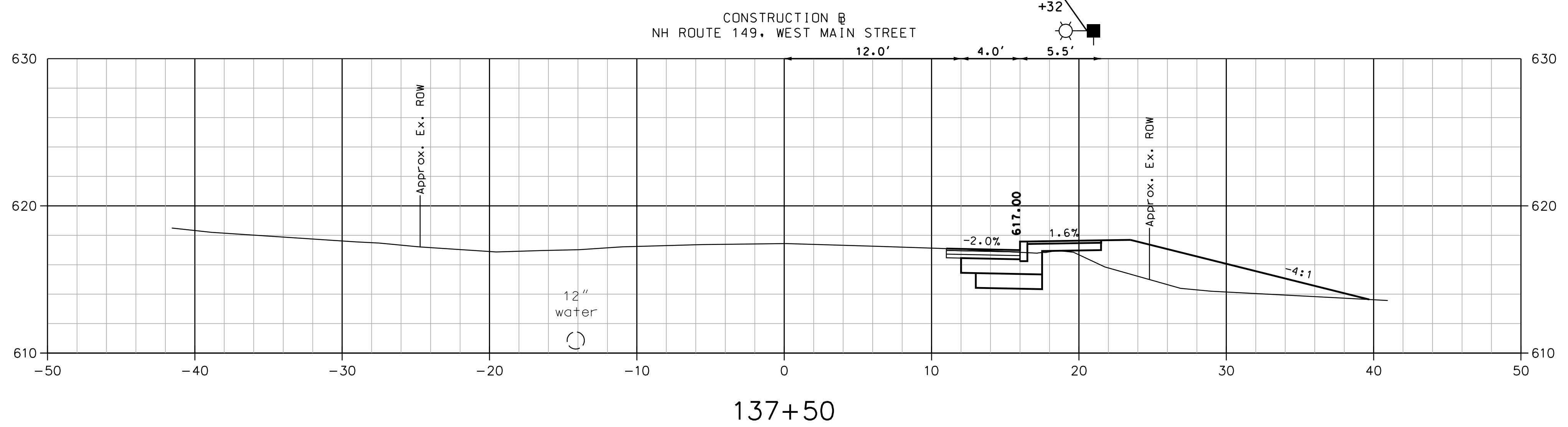
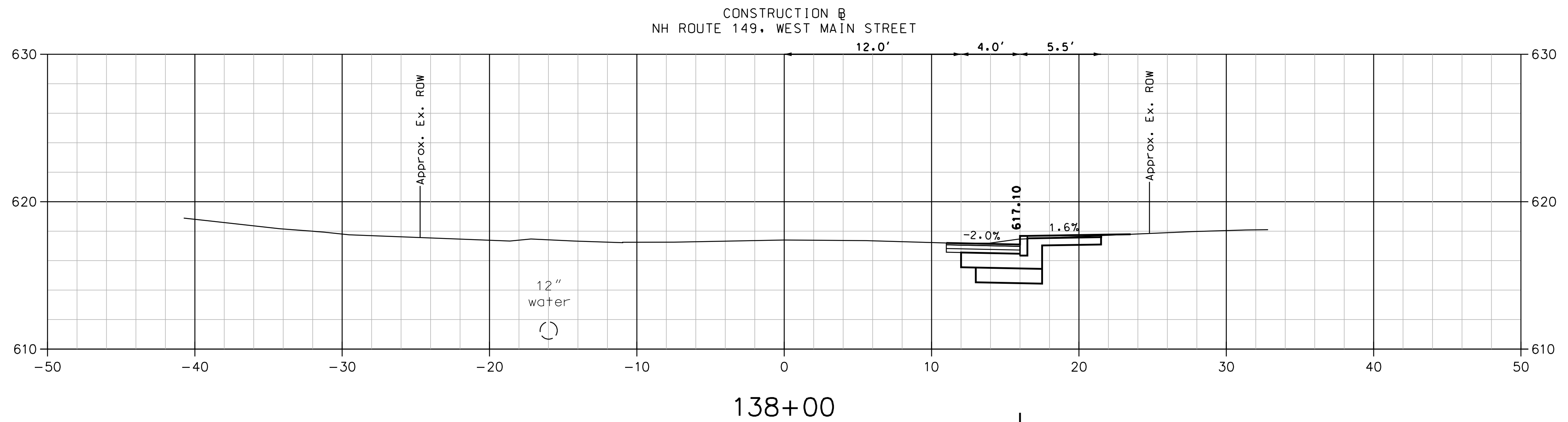
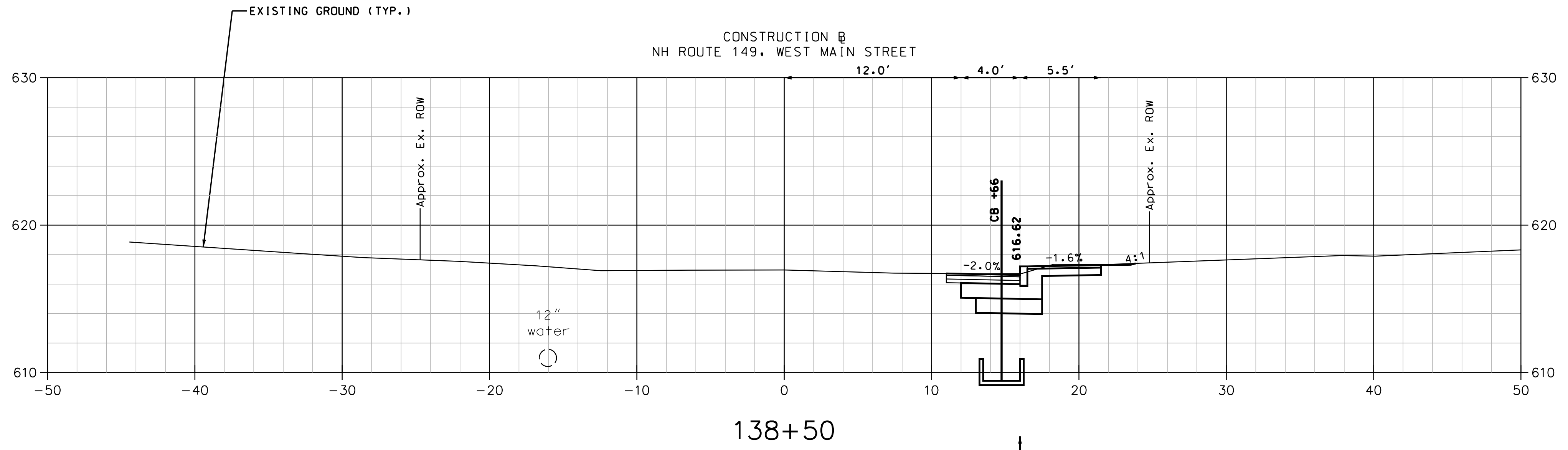
D&K NO. 324277



SHEET TOTALS					
COMMON EXCAV.	—	C.Y.	ROCK EXCAV.	—	C.Y.
FILL	—	C.Y.	MUCK EXCAV.	—	C.Y.
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS		
41368XS		\$\$#		\$T#\$	

REVISIONS AFTER PROPOSAL	
NUMBER	DATE
STATION	STATION
DESCRIPTION	DESCRIPTION

SDR PROCESSED	DATE
NEW DESIGN	DATE
SHEET CHECKED	DATE
AS BUILT DETAILS	DATE



NOTE:
PROPOSED GRADE AT CURB
IS THE GUTTER GRADE.

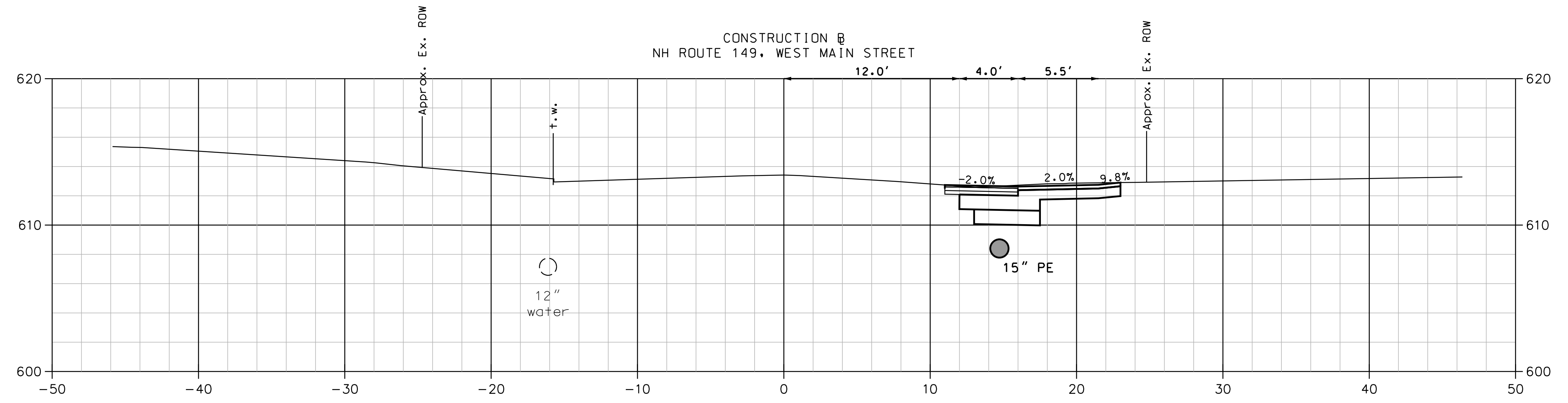
D&K NO. 324277



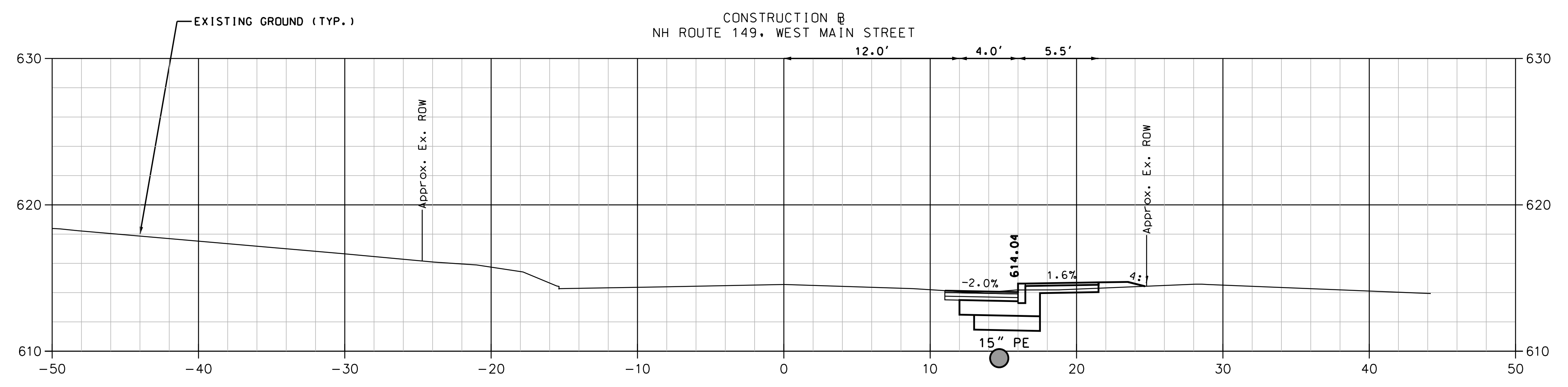
SHEET TOTALS		COMMON EXCAV. _____ C.Y.		ROCK EXCAV. _____ C.Y.	
		FILL _____ C.Y.		MUCK EXCAV. _____ C.Y.	
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS		
41368XS		\$\$#	T##		

REVISIONS AFTER PROPOSAL	
NUMBER	DATE
STATION	DESCRIPTION

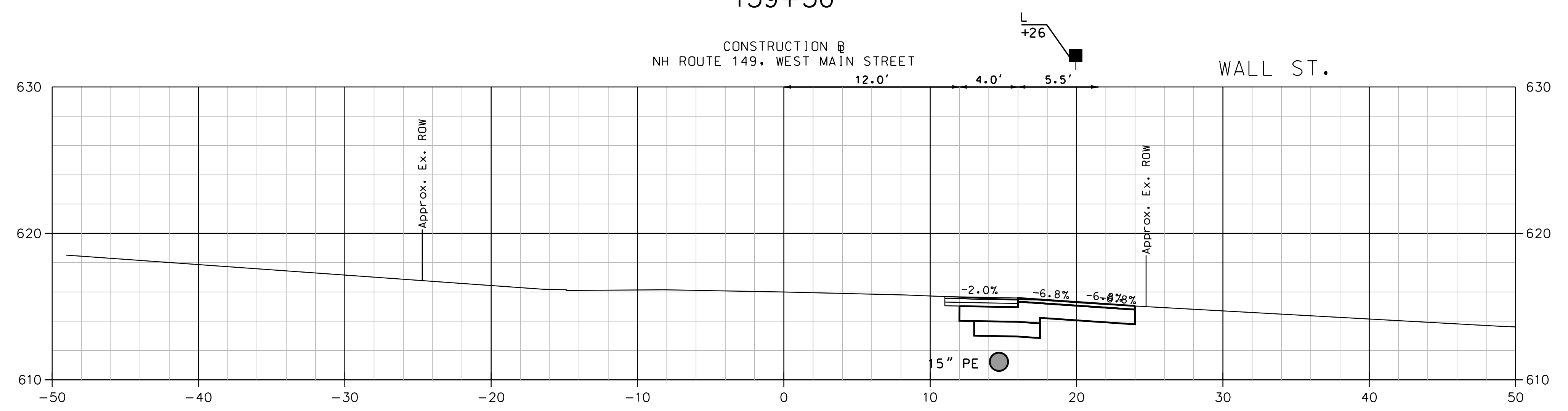
SDR PROCESSED	DATE	---
NEW DESIGN	GMC	3/28/2023
SHEET CHECKED	BMB	3/28/2023
AS BUILT DETAILS	DATE	



139+83
DRIVE RT



139+50



139+00
DRIVE RT

NOTE:
PROPOSED GRADE AT CURB
IS THE GUTTER GRADE.

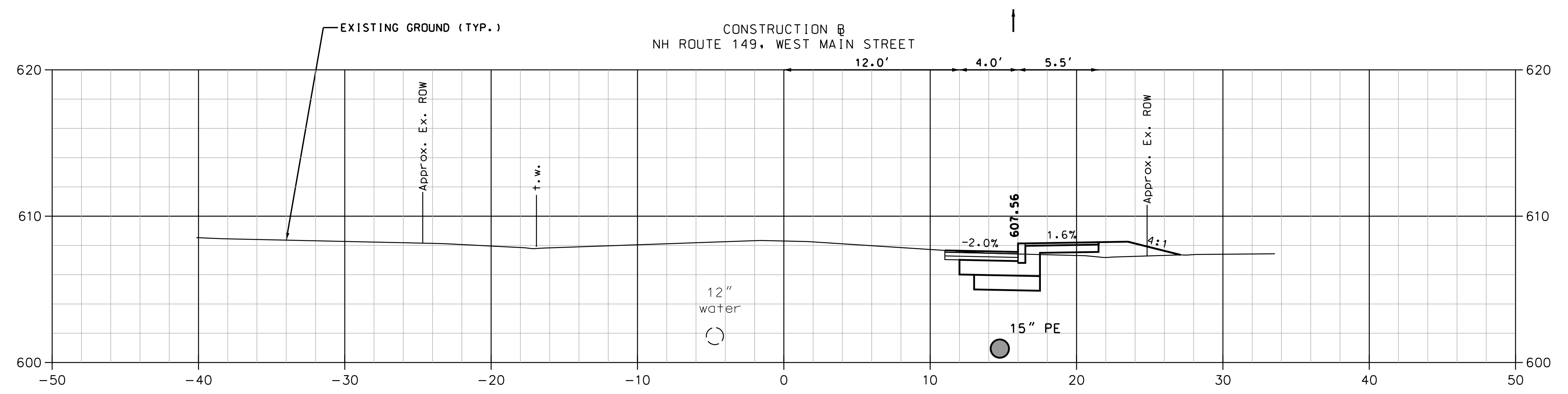
D&K NO. 324277



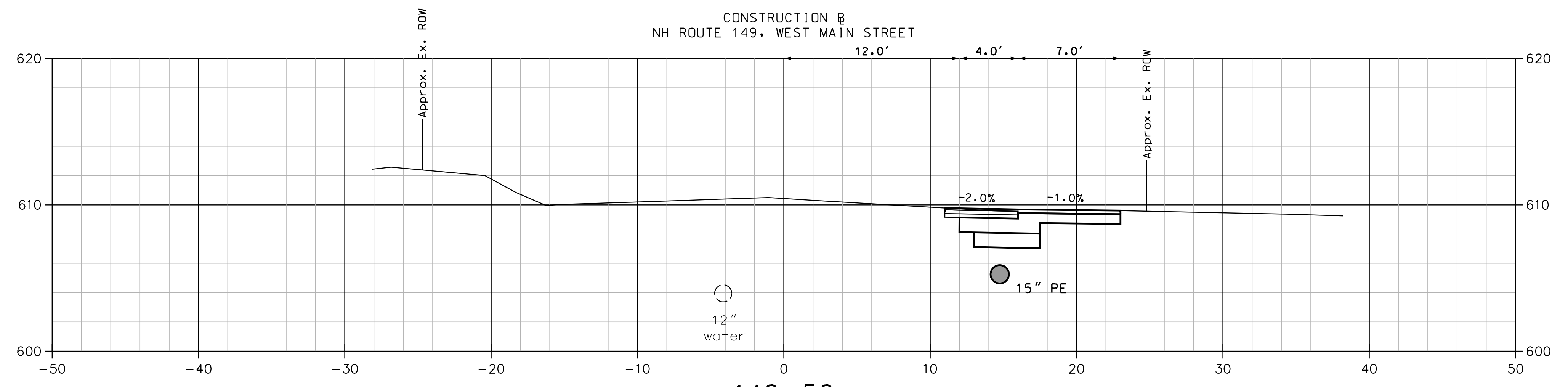
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FILL	—	C.Y.	MUCK EXCAV.	—	C.Y.
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS		
41368XS		\$\$#\$	\$T#\$		

REVISIONS AFTER PROPOSAL	
NUMBER	DATE
STATION	DESCRIPTION

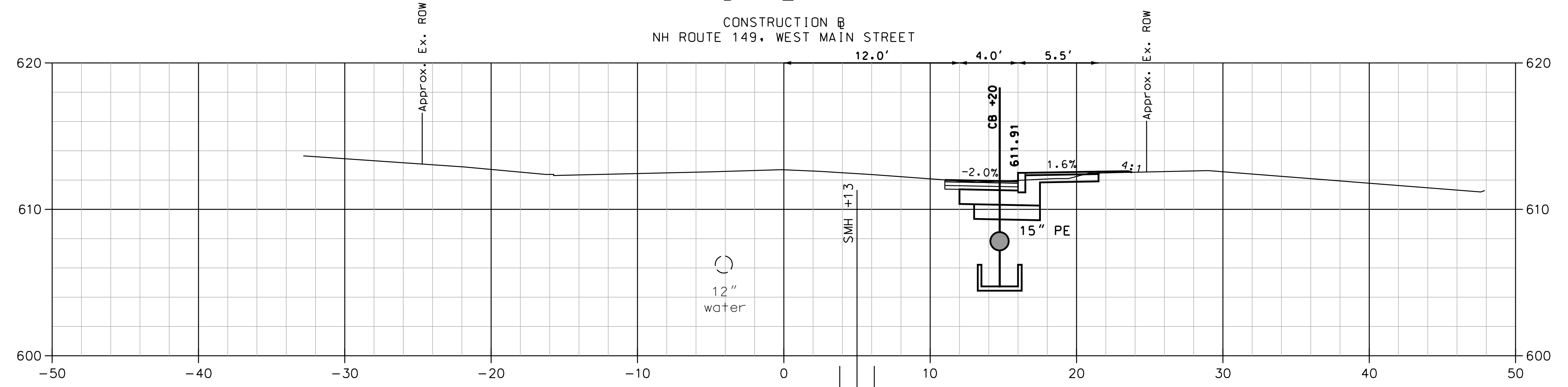
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NEW DESIGN	GMC	DATE	3/28/2023
SHEET CHECKED	BMB	DATE	3/28/2023
AS BUILT DETAILS		DATE	



141+00



140+50
DRIVE RT



140+00

NOTE:
PROPOSED GRADE AT CURB
IS THE GUTTER GRADE.

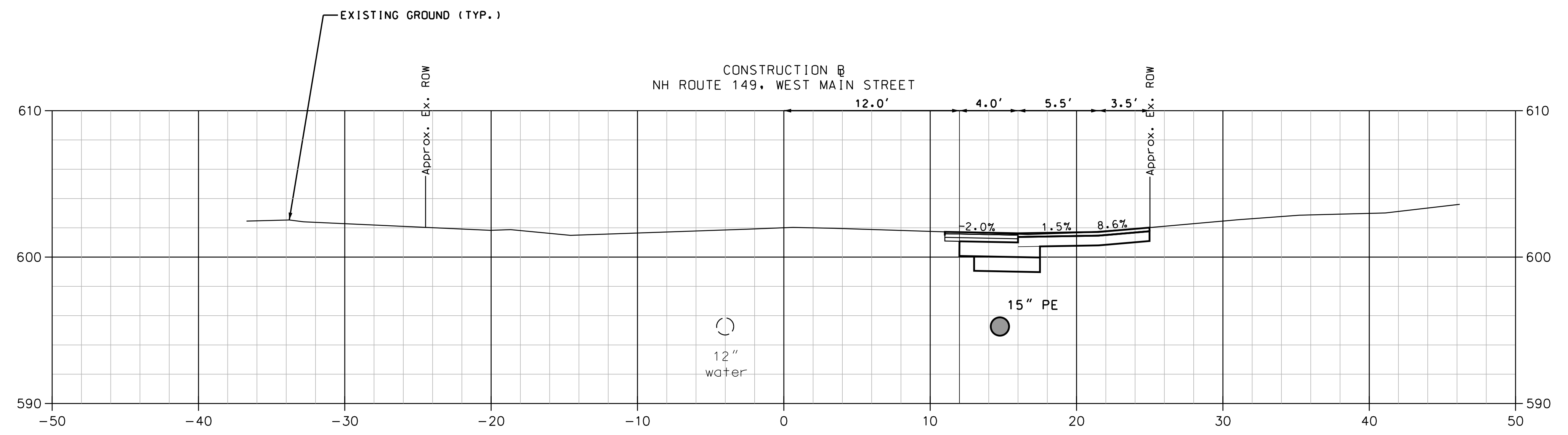
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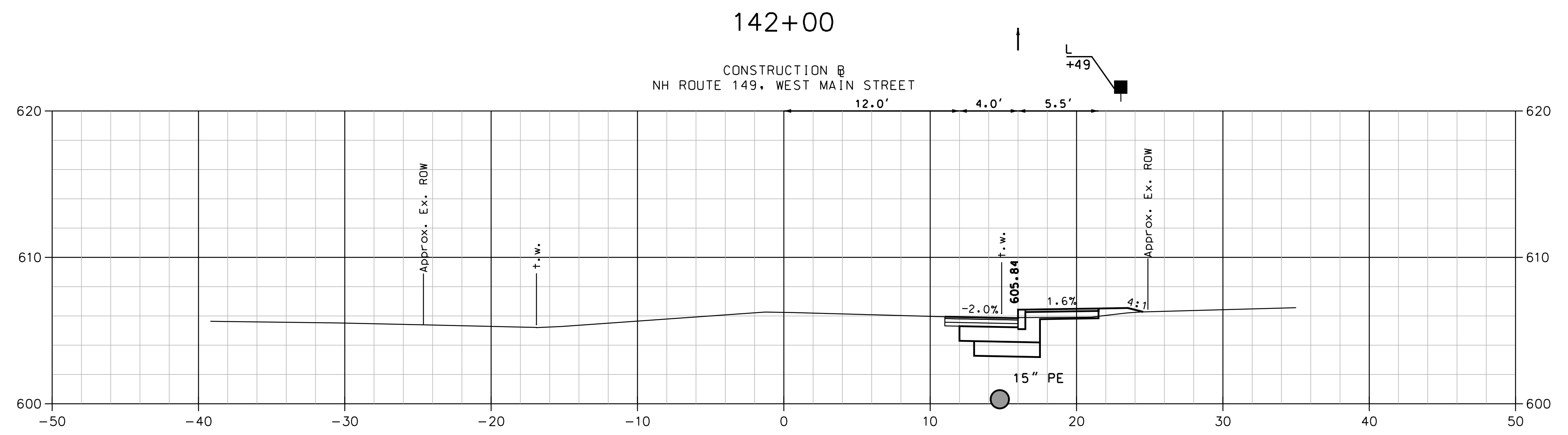
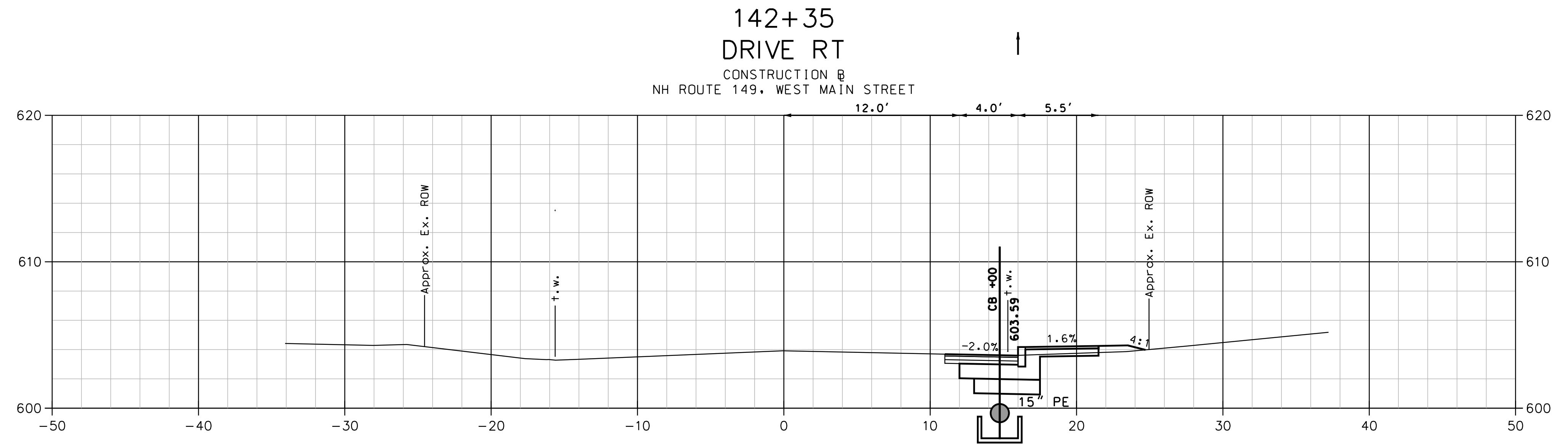
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FILL	---	C.Y.	MUCK EXCAV.	---	C.Y.
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS		
41368XS		\$\$#	\$T#		

REVISIONS AFTER PROPOSAL		STATION	DESCRIPTION
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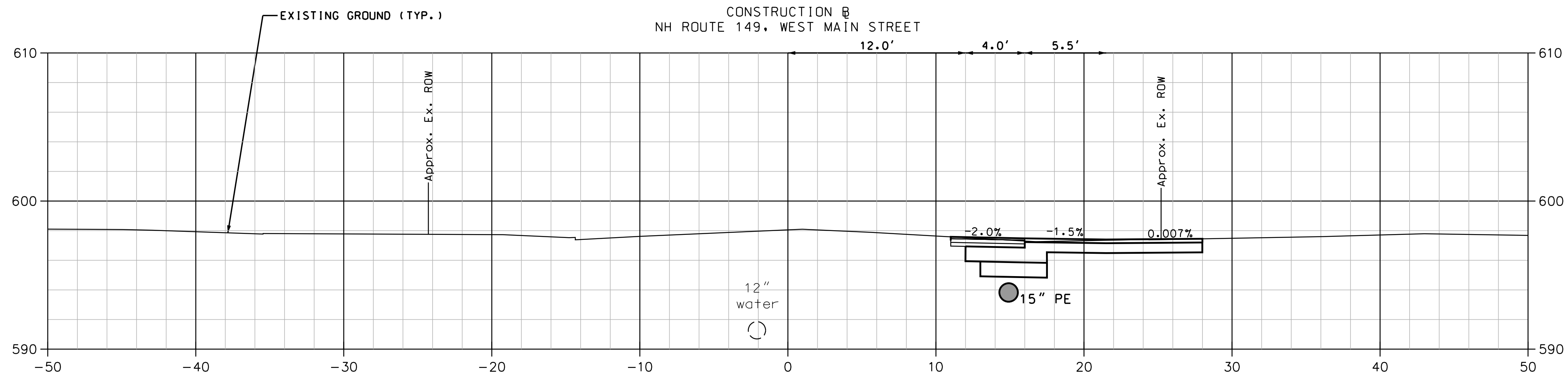
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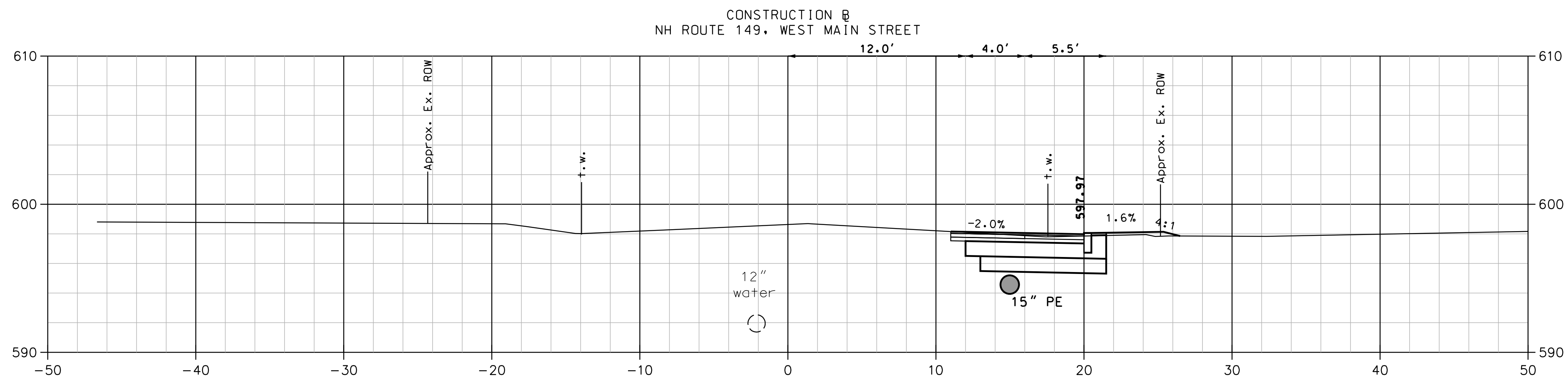
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FILL	— C.Y.	MUCK EXCAV.	— C.Y.
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368XS		\$\$#	\$T#\$

REVISIONS AFTER PROPOSAL	
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SDR PROCESSED	---	DATE	---
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SHEET CHECKED	BMB	DATE	3/28/2023
AS BUILT DETAILS		DATE	



143+15
DRIVE RT



143+00



142+50

NOTE:
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D&K NO. 324277



SHEET TOTALS			
COMMON EXCAV.	— C.Y.	ROCK EXCAV.	— C.Y.
FILL	— C.Y.	MUCK EXCAV.	— C.Y.
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368XS		\$\$#	\$T#

REVISIONS AFTER PROPOSAL

DESCRIPTION

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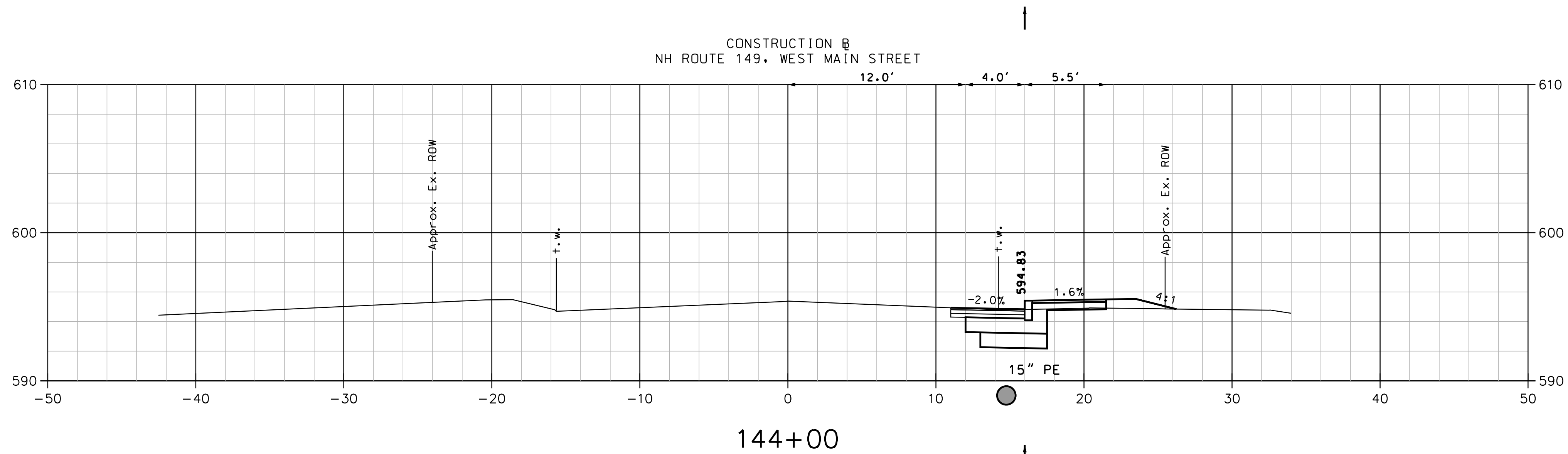
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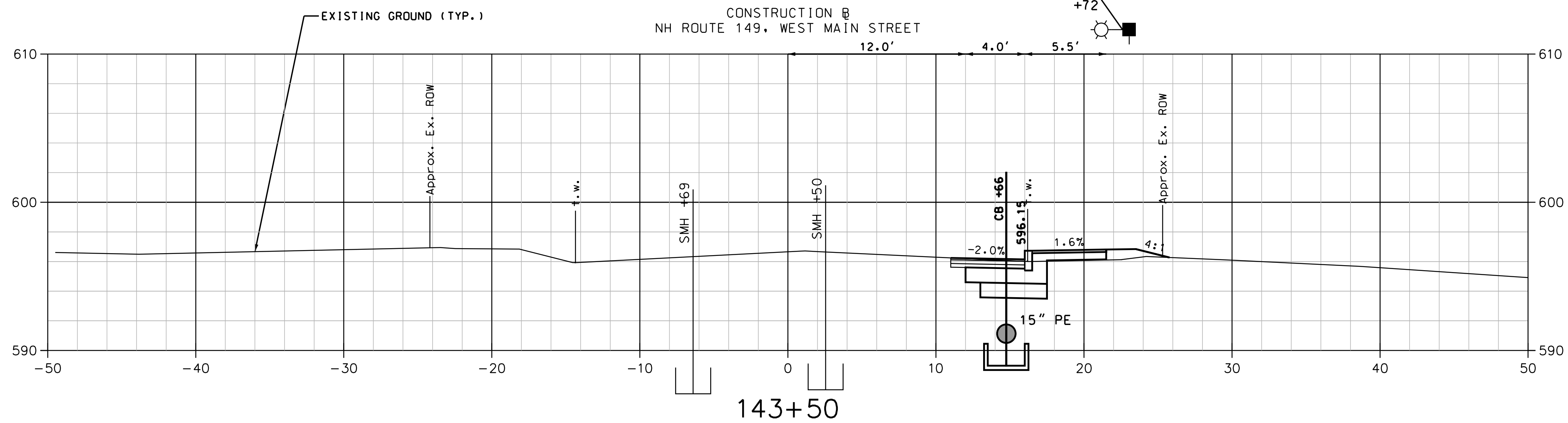
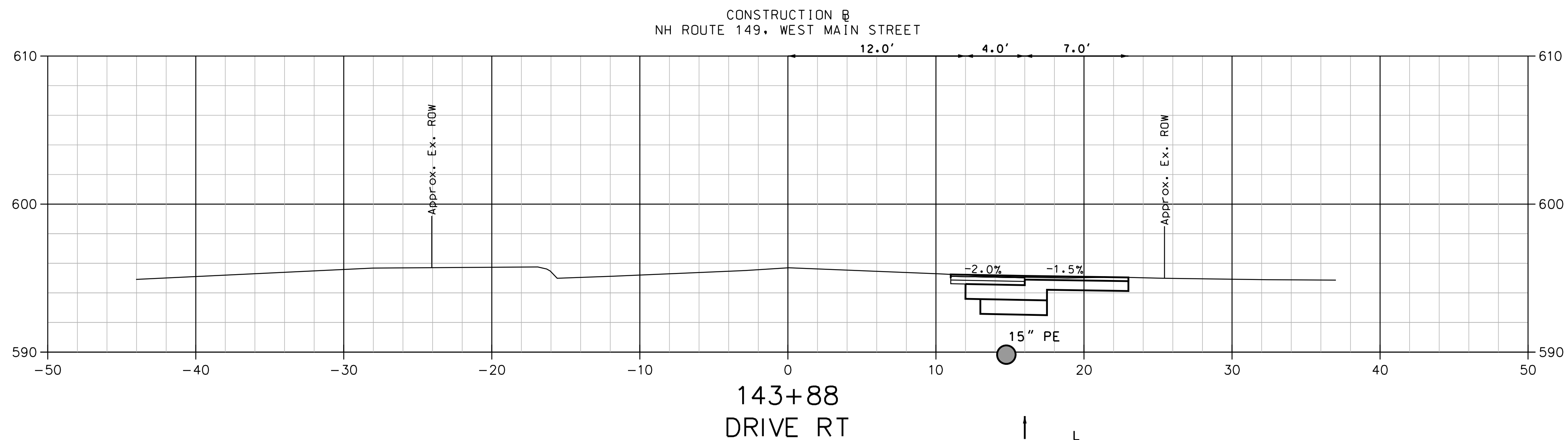
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NOTE:
PROPOSED GRADE AT CURB
IS THE GUTTER GRADE.



D&K NO. 324277



SHEET TOTALS			
COMMON EXCAV.	---	C.Y.	---
FILL	---	C.Y.	---
ROCK EXCAV.	---	C.Y.	---
MUCK EXCAV.	---	C.Y.	---
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368XS		\$\$#	\$T#

SDR PROCESSED	NEW DESIGN	CEB	3/28/2023	DATE	DATE	DATE	DATE
	SHEET CHECKED	CMB	3/28/2023	DATE	DATE	DATE	DATE
	ENGINEER	BRIAN M. BRESLEND	NO. 15117	NO.	NO.	NO.	NO.
	AS BUILT DETAILS						

EROSION CONTROL NOTES:

- CONTRACTOR SHALL PREPARE A SWPPP IN ACCORDANCE WITH DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 645. EROSION CONTROL PLANS SHOULD INCLUDE AN EROSION CONTROL STRATEGIES SHEET AND EROSION CONTROL PLANS THAT SHOW THE INTENDED EROSION CONTROL STRATEGIES. FOR INFORMATION ON THE EROSION CONTROL STRATEGIES SHEET, SEE NHDOT SPECIAL DETAILS, EROSION CONTROL STRATEGIES.
- THE CONTRACTOR SHALL MINIMIZE THE AMOUNT OF DISTURBED SOIL EXPOSED TO EROSION FROM STORM WATER AND WIND AT ANY TIME BY USING VEGETATIVE AND STRUCTURAL CONTROLS AND PROPER TIMING AND SEQUENCING OF CONSTRUCTION ACTIVITIES.
- ONLY DISTURB, CLEAR, OR GRADE AREAS NECESSARY FOR IMMEDIATE CONSTRUCTION ACTIVITY. FLAG OR OTHERWISE DELINEATE AREAS NOT TO BE DISTURBED. EXCLUDE VEHICLES AND CONSTRUCTION EQUIPMENT FROM THESE AREAS TO PRESERVE NATURAL VEGETATION.
- IF PROJECT IS GREATER THAN 5-ACRES, THE AREA OF UNSTABILIZED SOIL SHALL NOT EXCEED 5 ACRES AT ANY TIME UNLESS PROJECT PERMITS SPECIFICALLY PROVIDE FOR A GREATER AREA OF DISTURBANCE.
- ALL EROSION AND SEDIMENT CONTROL PRACTICES AND MEASURES TO BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THESE DRAWINGS, NOTES AND DETAILS, AND ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND APPROVED PERMITS, WHERE CONFLICTS EXIST, PERMITS SHALL GOVERN. PERIMETER CONTROLS TO BE INSTALLED PRIOR TO EARTH MOVEMENT OPERATIONS.
- THE CONTRACTOR SHALL USE PROPER EROSION AND SEDIMENT CONTROL MEASURES TO ENSURE NO SEDIMENT IS TRACKED OFF-SITE (E.G. NHDOT STABILIZED CONSTRUCTION ENTRANCE).
- DISTURBED AREAS WITH POTENTIAL TO DISCHARGE SEDIMENT-LADEN WATER INTO SURFACE WATERS OR OFF THE SITE MUST BE PROTECTED WITH TEMPORARY EROSION CONTROL MEASURES (E.G., SILT FENCE).
- AREAS TO BE FILLED SHALL BE CLEARED GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIALS WITH NO EXCEPTION OF TREES/SAPLINGS REMOVED WITHIN AREAS NOTED (EXCEPT DEAD/DYING OR DISEASED TREES/SAPLINGS).
- EXCAVATED TOPSOIL GRADE MATERIAL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED TEMPORARILY IN THE AMOUNT NECESSARY TO COMPLETE FINISHED GRADING (WITHIN PROPOSED CONSTRUCTION LIMITS) AND USED IN CONJUNCTION WITH SEEDING AND PLANTING THE PROJECT AREA.
- ALL STOCKPILES, BORROW AREAS, AND SPOILS SHALL BE PROTECTED FROM EROSION AND SURROUNDED BY SILT FENCE AND STABILIZED AS DESCRIBED UNDER "SOIL STOCKPILE PRACTICES" AS SPECIFIED ON THESE DRAWINGS OR IN THE NH STORMWATER MANAGEMENT MANUAL, VOLUME 3: CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROL (DECEMBER 2008).
- SLOPES SHALL NOT BE CREATED SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTIES WITHOUT ADEQUATE PROTECTION AGAINST SEDIMENTATION, EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED DAMAGES.
- FROZEN MATERIAL OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE SLUMPING MATERIALS ARE SUSCEPTIBLE TO ACCELERATED SETTLEMENT AND POTENTIAL ACCELERATED EROSION. WORK IN THESE MATERIALS TO BE PERFORMED UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER.
- REPAIR OR REPLACEMENT OF EROSION CONTROL MEASURES SHALL BE MADE PROMPTLY AS NEEDED, AND AS DESCRIBED IN THE INSPECTION, MONITORING AND MAINTENANCE NOTES ON THESE DRAWINGS AND IN ACCORDANCE WITH PERMITS AND AT DIRECTION OF THE ENGINEER.
- THE OUTER FACE OF THE FILL SLOPE SHALL BE ALLOWED TO STAY LOOSE, NOT ROLLED, COMPACTED, OR BLADED SMOOTH. ROUGHEN THE SURFACE OF ALL SLOPES DURING THE CONSTRUCTION OPERATION TO RETAIN WATER, INCREASE INFILTRATION, AND FACILITATE VEGETATION ESTABLISHMENT. SEE "SURFACE ROUGHENING" SPECIFICATIONS ON THESE DRAWINGS OR NH STORMWATER MANAGEMENT MANUAL, VOLUME 3: CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROL (DECEMBER 2008).
- USE SLOPE BREAKS, SUCH AS DIVERSIONS, BENCHES, OR CONTOUR FURROWS AS APPROPRIATE, TO REDUCE THE LENGTH OF CUT-AND-FILL SLOPES TO LIMIT SHEET AND RILL EROSION AND PREVENT GULLY EROSION. ALL BENCHES TO BE KEPT FREE OF SEDIMENT DURING ALL PHASES OF DEVELOPMENT.
- SEEDING AREAS SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 INCHES PRIOR TO PLACEMENT OF TOPSOIL. TOPSOIL TO BE PLACED WITHOUT SIGNIFICANT COMPACTION TO PROVIDE A LOOSE BEDDING FOR PLACEMENT OF SEED.
- SEE AND ADHERE TO TEMPORARY EROSION BLANKET SPECIFICATIONS ON THESE DRAWINGS OR IN THE NH STORMWATER MANAGEMENT MANUAL, VOLUME 3: CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROL (DECEMBER 2008).
- PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS ARE NOT MULCHED, SEED SHOULD BE PLACED FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS (NOVEMBER THROUGH MARCH). SEE WINTER CONSTRUCTION NOTES. PLANT ANNUAL RYE GRASS PRIOR TO OCTOBER 15TH.

EROSION CONTROL NOTES (CONT'D):

- ONCE DISTURBED AREAS HAVE BEEN STABILIZED AND VEGETATION IS ESTABLISHED, ALL TEMPORARY EROSION CONTROL MEASURES SUCH AS SILT FENCE SHALL BE REMOVED. AREAS DISTURBED BY REMOVAL OF THESE MEASURES SHALL BE IMMEDIATELY SEEDED ACCORDING TO SEEDING SPECIFICATIONS ON THESE DRAWINGS AND IN ACCORDANCE WITH PERMITS, IF A CONFLICT EXISTS PERMITS GOVERN.
- AN AREA IS CONSIDERED "STABLE" IF ONE OF THE FOLLOWING HAS OCCURRED: BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED; A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED; A MINIMUM OF 3" OF NON-EROSIVE MATERIAL (SUCH AS STONE RIP RAP OR A CERTIFIED COMPOST BLANKET) HAS BEEN INSTALLED; OR EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- ALL AREAS OF EXPOSED OR DISTURBED SOIL TO BE TEMPORARILY STABILIZED AS SOON AS PRACTICABLE BUT NO LATER THAN 72 HOURS FROM THE TIME OF INITIAL DISTURBANCE, UNLESS A SHORTER TIME IS SPECIFIED BY LOCAL AUTHORITIES, THE CONSTRUCTION SEQUENCE APPROVED AS PART OF THE ISSUED PERMIT, OR AN INDEPENDENT MONITOR.
- ALL AREAS OF EXPOSED OR DISTURBED SOIL TO BE PERMANENTLY STABILIZED AS SOON AS PRACTICABLE BUT NO LATER THAN 72 HOURS FOLLOWING FINAL GRADING.
- ALL WORK SHALL BE CONDUCTED IN ACCORDANCE WITH NH STORMWATER MANAGEMENT MANUAL, VOLUME 3: CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROL (DECEMBER 2008).
- TEMPORARY WATER DIVERSIONS SUCH AS SWALES AND BASINS MUST BE USED AS NECESSARY UNTIL AREAS WITHIN THE PROJECT ARE STABILIZED.
- ALL PONDS AND SWALES SHALL BE INSTALLED EARLY ON IN THE CONSTRUCTION SEQUENCE, BEFORE ROUGH GRADING THE SITE. ALL DRAINAGE SWALES SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
- CONTRACTOR TO FOLLOW BMPs FOR CONTROL OF INVANSIVE AND NOXIOUS PLANT SPECIES.

SOIL STOCKPILE PRACTICES:

- PURPOSE**
INCLUDE MEASURES TO LOCATE, MANAGE, AND PROTECT STOCKPILED EARTH MATERIALS, TO REDUCE OR ELIMINATE WIND AND WATER EROSION, AND PREVENT RESULTING AIR AND WATER POLLUTION FROM DISPLACED SEDIMENT.
- CONDITIONS WHERE PRACTICE APPLIES**
TOPSOIL, EXCAVATED MATERIALS, BORROW MATERIALS IMPORTED TO THE SITE, AND CONSTRUCTION AGGREGATES AND PAVING MATERIALS THAT ARE STOCKPILED ON THE SITE PRIOR TO USE IN THE CONSTRUCTION WORK.
- PLANNING CONSIDERATIONS**
1. TO BE SITED ON THE SITE IN COMPLIANCE WITH ALL PERMIT CONDITIONS GOVERNING SETBACKS FROM ADJACENT PROPERTY LINES AND WATER RESOURCES (INCLUDING WETLANDS).
2. SOIL AND EROSION CONTROL PRACTICES AT STOCKPILES SHOULD BE REGULARLY INSPECTED AND SHOULD BE ADJUSTED IMMEDIATELY TO RESPOND TO ONGOING CONSTRUCTION OPERATIONS. AS THE DELIVERY OF NEW MATERIALS OR THE REMOVAL OF MATERIALS FOR INCORPORATION INTO THE WORK MAY REQUIRE MODIFICATION AND UPDATING OF THE PROTECTIVE MEASURES TO KEEP THEM EFFECTIVE.
- SPECIFICATIONS**
1. GENERAL:
* LOCATE A MINIMUM OF 50 FEET AWAY FROM CONCENTRATED FLOWS OF STORMWATER, DRAINAGE COURSES, AND INLETS.
* PROTECT FROM STORMWATER RUN-ON USING TEMPORARY PERIMETER MEASURES SUCH AS DIVERSIONS, BERMS, SANDBAGS, OR OTHER APPROVED PRACTICE.
* TO BE SURROUNDED BY SEDIMENT BARRIERS AS DESCRIBED ON THESE DRAWINGS OR IN THE NH STORMWATER MANAGEMENT MANUAL, VOLUME 3: CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROL (DECEMBER 2008), TO PREVENT MIGRATION OF MATERIAL BEYOND THE IMMEDIATE CONFINES OF THE STOCKPILES.
* IMPLEMENT WIND EROSION CONTROL PRACTICES AS APPROPRIATE ON ALL STOCKPILED MATERIAL.
* PLACE BAGGED MATERIALS ON PALLETS AND UNDER COVER.
2. PROTECTION OF INACTIVE STOCKPILES:
* COVER WITH ANCHORED TARPS OR PROTECT WITH SOIL STABILIZATION MEASURES (TEMPORARY SEED AND MULCH OR OTHER TEMPORARY STABILIZATION PRACTICE) AND TEMPORARY PERIMETER SEDIMENT BARRIERS AT ALL TIMES.
* CONCRETE RUBBLE, ASPHALT CONCRETE RUBBLE, AGGREGATE MATERIALS, AND OTHER SIMILAR MATERIALS TO BE PROTECTED WITH TEMPORARY SEDIMENT PERIMETER BARRIERS AT ALL TIMES. IF THE MATERIALS ARE A SOURCE OF DUST, THEY ARE TO BE COVERED.
3. PROTECTION OF ACTIVE STOCKPILES:
* SURROUND WITH TEMPORARY LINEAR SEDIMENT BARRIERS PRIOR TO THE ONSET OF PRECIPITATION. PERIMETER BARRIERS TO BE MAINTAINED AT ALL TIMES, AND ADJUSTED AS NEEDED TO ACCOMMODATE THE DELIVERY AND REMOVAL OF MATERIALS FROM THE STOCKPILE. THE INTEGRITY OF THE BARRIER TO BE INSPECTED AT THE END OF EACH WORKING DAY.
* WHEN A STORM EVENT IS PREDICTED, STOCKPILES TO BE PROTECTED WITH AN ANCHORED PROTECTIVE COVERING.

- MAINTENANCE REQUIREMENTS**
1. INSPECT ALL SOIL STOCKPILES IMMEDIATELY AFTER STORM EVENTS AND AT THE FREQUENCIES SPECIFIED IN THE PROJECT EROSION AND SEDIMENT CONTROL PLAN AND IN APPLICABLE PERMITS. AT A MINIMUM, INSPECT WEEKLY DURING WET WEATHER PERIODS AND WITHIN 24 HOURS AFTER A RAIN EVENT OF EXCEEDING 1 INCH IN A 24-HOUR PERIOD TO VERIFY THAT EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE AND FUNCTIONING PROPERLY.
2. REPAIR AND/OR REPLACE PERIMETER CONTROLS AND STOCKPILE COVERINGS AS NEEDED TO KEEP THEM FUNCTIONING PROPERLY.

TEMPORARY EROSION CONTROL BLANKET:

- GENERAL DESCRIPTION**
INSTALLED ON PREPARED SOIL SURFACES TO PROVIDE EROSION PROTECTION AND SURFACE STABILITY ON STEEP SLOPES, VEGETATED CHANNELS, OR SHORELINES DURING VEGETATION ESTABLISHMENT.
- PURPOSE**
1. EROSION CONTROL BLANKETS TEMPORARILY STABILIZE AND PROTECT DISTURBED SOIL FROM RAINDROP IMPACT AND SURFACE EROSION.
2. HELP INCREASE INFILTRATION, DECREASE COMPACTION AND SOIL CRUSTING, AND CONSERVE SOIL MOISTURE.
3. INCREASES THE GERMINATION RATES FOR GRASSES AND LEGUMES AND PROMOTE VEGETATION ESTABLISHMENT.
4. PROTECT SEEDS FROM PREDATORS AND REDUCE DESICCATION AND EVAPORATION BY INSULATING THE SOIL AND SEED ENVIRONMENT.
- CONDITIONS WHERE PRACTICE APPLIES**
CAN BE APPLIED TO STEEP SLOPES AND OTHER AREAS SENSITIVE TO EROSION, TO SUPPLEMENT VEGETATION DURING INITIAL ESTABLISHMENT AND HELP PROVIDE FOR SAFE CONVEYANCE OF RUNOFF OVER THE PROTECTED SURFACE.
- PLANNING CONSIDERATIONS**
1. DURING THE GROWING SEASON (APRIL 15 - SEPTEMBER 15) USE MATS (OR MULCH AND BIODEGRADABLE NETTING) ON:
* THE BASE OF GRASSED WATERWAYS
* STEEP SLOPES (15% OR GREATER)
* ANY DISTURBED SOIL WITHIN 100 FEET OF LAKES, STREAMS AND WETLANDS
2. DURING THE LATE FALL AND WINTER (SEPTEMBER 15 - APRIL 15) USE HEAVY BIODEGRADABLE GRADE MATS. NO PLASTIC NETTING, MATS, OR BLANKETS SHALL BE USED IN WETLAND OR WATER ON ALL AREAS NOTED ABOVE PLUS USE LIGHTER GRADE MATS (OR MULCH AND BIODEGRADABLE NETTING) ON:
* SIDE SLOPES OF GRASSED WATERWAYS
* MODERATE SLOPES (GREATER THAN 8%) THERE MAY BE CASES WHERE MATS WILL BE NEEDED ON SLOPES FLATTER THAN 8%, DEPENDING ON SITE CONDITIONS AND THE LENGTH OF THE SLOPE.
3. THE MOST CRITICAL ASPECT OF INSTALLING MATS IS OBTAINING FIRM CONTINUOUS CONTACT BETWEEN THE MAT AND THE SOIL. WITHOUT SUCH CONTACT, THE MAT IS USELESS AND EROSION OCCURS.
4. INSTALL MATS AND STAPLE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- SPECIFICATIONS**
1. SITE PREPARATION:
PROPER SITE PREPARATION IS ESSENTIAL TO ENSURE COMPLETE CONTACT OF THE PROTECTION MATTING WITH THE SOIL.
* GRADE AND SHAPE AREA OF INSTALLATION.
* REMOVE ALL ROCKS, CLODS, TRASH, VEGETATIVE OR OTHER OBSTRUCTIONS SO THAT THE INSTALLED BLANKETS WILL HAVE DIRECT CONTACT WITH THE SOIL.
* PREPARE SEEDBED BY LOOSENING 2-3 INCHES OF TOPSOIL ABOVE FINAL GRADE.
* INCORPORATE AMENDMENTS, SUCH AS LIME AND FERTILIZER, INTO SOIL ACCORDING TO SOIL TEST AND THE SEEDING PLAN (IF PROVIDED).
2. SEEDING:
* SEED AREA BEFORE BLANKET INSTALLATION FOR EROSION CONTROL AND RE-VEGETATION. SEEDING AFTER MAT INSTALLATION IS OFTEN SPECIFIED FOR TURF REINFORCEMENT APPLICATION. WHEN SEEDING PRIOR TO BLANKET INSTALLATION, ALL CHECK SLOTS AND OTHER AREAS DISTURBED DURING INSTALLATION MUST BE RESEDED.
* WHERE SOIL FILLING IS SPECIFIED, SEED THE MATTING AND THE ENTIRE DISTURBED AREA AFTER INSTALLATION AND PRIOR TO FILLING THE MAT WITH SOIL.
3. INSTALLING AND ANCHORING BLANKETS
* BLANKETS SHALL BE PLACED WITHIN 24 HOURS AFTER SOWING SEED IN THAT AREA.
* EROSION CONTROL BLANKETS MUST BE 100% BIODEGRADABLE (PLASTIC NETTING WILL NOT BE ALLOWED).
* BLANKETS SHALL BE INSTALLED AND ANCHORED PER THE MANUFACTURER'S SPECIFICATIONS. IF THE MANUFACTURER DOES NOT PROVIDE INSTRUCTIONS, FOLLOW THOSE CONTAINED WITHIN THE NH STORMWATER MANAGEMENT MANUAL VOLUME 3 CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROLS (DECEMBER 2008).
* EROSION CONTROL BLANKET SHALL BE INSTALLED AND SECURED WITH BIOSTAKES (OR AN EQUIVALENT APPROVED BY THE ENGINEER) IN ACCORDANCE WITH MANUFACTURES INSTRUCTIONS. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE EROSION CONTROL BLANKET IS ADEQUATELY SECURED TO FINISHED GRADE SURFACE.
* U-SHAPED WIRE STAPLES, METAL GEOTEXTILE STAKE PINS, OR TRIANGULAR WOODEN STAKES CAN BE USED TO ANCHOR MATS TO THE GROUND SURFACE ONLY IF BIOSTAKES DO NOT PROVIDE APPROPRIATE ANCHORING AND ENGINEER'S APPROVAL IS OBTAINED.
* STAPLES AND STAKES SHOULD BE DRIVEN FLUSH TO THE SOIL SURFACE. ALL ANCHORS SHOULD HAVE SUFFICIENT GROUND PENETRATION TO RESIST PULLOUT. LONGER ANCHORS MAY BE REQUIRED FOR LOOSE SOILS.
- MAINTENANCE REQUIREMENTS**
1. ALL BLANKET AND MATS SHOULD BE INSPECTED WEEKLY DURING THE CONSTRUCTION PERIOD, AND AFTER ANY RAINFALL EVENT EXCEEDING 1 INCH IN A 24-HOUR PERIOD.
2. ANY FAILURE SHOULD BE REPAIRED IMMEDIATELY. IF WASHOUT OF THE SLOPE, DISPLACEMENT OF THE MAT, OR DAMAGE TO THE MAT OCCURS, THE AFFECTED SLOPE SHALL BE REPAIRED AND RESEDED, AND THE AFFECTED AREA OF MAT SHALL BE RE-INSTALLED OR REPLACED.

WINTER CONSTRUCTION NOTES:

- FOR SITE WORK CONSTRUCTION BETWEEN OCTOBER 15TH AND EARLY APRIL THE CONTRACTOR SHALL FOLLOW WINTER CONSTRUCTION EROSION PROTECTION METHODS AS DESCRIBED BELOW:
- CHECK ALL PERIMETER EROSION CONTROL MEASURES AND COMPLETE ANY REQUIRED MAINTENANCE AND REPAIR BEFORE THE GROUND FREEZES.
 - PUT IN PLACE ANY ADDITIONALLY NECESSARY EROSION CONTROL MEASURES: DIVERSION DIKES, HAY BALES, SILT FENCE, SEDIMENT TRAPS AND/OR BASINS, ETC. TO PROTECT DOWNSTREAM WATER QUALITY FROM ANTICIPATED WINTER WORK PRIOR TO GROUND FREEZING.

D&K NO. 324277



TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
<i>EROSION CONTROL NOTES (SHEET 1 OF 2)</i>			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368ecnotes	41368	89	74

SDR PROCESSED	NEW DESIGN	CEB	DATE	3/28/2023	REVISIONS AFTER PROPOSAL	DESCRIPTION
	SHEET CHECKED	CMB	DATE	3/28/2023		
	ENGINEER	BRIAN M. BRESLEND	NO.	15117		
	AS BUILT DETAILS					
			STATION			
			STATION			
			DATE			
			NUMBER			

WINTER CONSTRUCTION NOTES (CONT'D):

- ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED BIODEGRADABLE NETTING. THE INSTALLATION OF BIODEGRADABLE EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVERACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS. IF THE MATTING/NETTING IS TO BE TEMPORARY, THEN BIODEGRADABLE IS NOT NECESSARY, BUT NO PLASTIC NETTING/MATting SHALL BE ALLOWED IN WETLAND AREAS.
- ALL DITCHES OR SWALES THAT DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH OR THAT ARE DISTURBED AFTER OCTOBER 15TH SHALL BE STABILIZED WITH STONE OR BIODEGRADABLE EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
- AFTER OCTOBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES SHALL BE PROTECTED WITH A MINIMUM OF 3-INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3, OR IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER SEASON, BE CLEARED OF ANY ACCUMULATED SNOW AFTER EACH STORM EVENT.
- INSPECT THE EROSION AND SEDIMENT CONTROL MEASURES MORE FREQUENTLY THAN IS SPECIFIED IN THE EROSION CONTROL INSPECTION, MONITORING, AND MAINTENANCE SPECIFICATIONS FOUND ON THIS SHEET DURING THE WINTER AND SPRING THAW MONTHS TO PREVENT FAILURE AND/OR OVERLOADING.
- BEFORE PREDICTED THAWS AND/OR HEAVY RAIN EVENTS CHECK ALL MEASURES TO ENSURE THAT THEY WILL BE ABLE TO HANDLE POTENTIALLY HEAVY AND INTENSE RUNOFF AND SEDIMENTATION.
- CONTRACTOR SHALL BE PREPARED TO INSTALL A SECOND LINE OF DEFENSE IF PROBLEMS WITH IN-PLACE EROSION CONTROL MEASURES OCCUR DURING WINTER THAW AND SPRING RAIN EVENTS.
- AS EARLY AS PRACTICAL AT THE BEGINNING OF THE NEXT GROWING SEASON, CONTRACTOR SHALL STABILIZE COMPLETED AREAS WITH PERMANENT VEGETATIVE CONTROLS AS SPECIFIED ON THESE DRAWINGS.

GENERAL SEEDING FOR LONG TERM COVER SPECIFICATIONS:

REFERENCE: STORMWATER MANAGEMENT AND EROSION SEDIMENT CONTROL HANDBOOK FOR URBAN DEVELOPING AREAS IN NEW HAMPSHIRE (AUGUST 1992)

DEFINITION

ESTABLISHING GRASSES AND LEGUMES ON HIGHLY ERODIBLE SOILS OR CRITICALLY ERODING AREAS.

PURPOSE

- TO STABILIZE SOIL.
- TO REDUCE DAMAGE FROM SEDIMENT.
- TO MAINTAIN OR IMPROVE WATER QUALITY.
- TO REDUCE STORMWATER RUNOFF.

CONDITIONS WHERE PRACTICE APPLIES

ON ALL AREAS WHERE PERMANENT VEGETATIVE COVER IS NEEDED TO ACCOMPLISH ONE OR MORE OF THE ABOVE PURPOSES.

PLANNING CONSIDERATIONS

- IT IS IMPORTANT TO SELECT THE PROPER SEED MIXTURE FOR THE INTENDED USE OF THE AREA, THE SOIL CONDITIONS ON THE SITE, AND THE CLIMATE.
- WARM SEASON GRASSES SHOULD BE CONSIDERED FOR SANDY AND DROUGHTY SITES SUCH AS ROADSIDES AND SAND PITS.

SEEDING RECOMMENDATIONS

- GRADING AND SHAPING
 - SLOPES SHALL NOT BE STEEPER THAN 2:1; 3:1 SLOPES OR FLATTER ARE PREFERRED. WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE RECOMMENDED.
- SEEDBED PREPARATION
 - SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.
 - STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL SHOULD BE TILLED TO A DEPTH OF ABOUT 4 INCHES TO PREPARE A SEEDBED AND MIX FERTILIZER AND LIME IN TO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.
- ESTABLISHING A STAND
 - LIME AND FERTILIZER SHOULD BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING AND INCORPORATED INTO THE SOIL. KINDS AND AMOUNTS OF LIME AND FERTILIZER SHOULD BE BASED ON AN EVALUATION OF SOIL TESTS. WHEN A SOIL TEST IS NOT AVAILABLE, THE FOLLOWING MINIMUM AMOUNTS SHOULD BE APPLIED: AGRICULTURE LIMESTONE, 2 TONS PER ACRE OR 100 LBS. PER 1,000 SQ. FT. NITROGEN (N), 50 LBS. PER ACRE OR 1.1 LBS. PER 1,000 SQ. FT. PHOSPHATE (P2O5), 100 LBS. PER ACRE OR 2.2 LBS. PER 1,000 SQ. FT. POTASH (K2O), 100 LBS. PER ACRE OR 2.2 LBS. PER 1,000 SQ. FT. (NOTE: THIS IS THE EQUIVALENT OF 500 LBS. PER ACRE OF 10-20-20 FERTILIZER OR 1,000 LBS. PER ACRES OF 5-10-10.)
 - FERTILIZER SHOULD BE RESTRICTED TO A LOW PHOSPHATE, SLOW RELEASE NITROGEN FERTILIZER WHEN APPLIED TO AREAS BETWEEN 25 FEET AND 250 FEET FROM A SURFACE WATER BODY. NO FERTILIZER EXCEPT LIMESTONE SHOULD BE APPLIED WITHIN 25 FEET OF A SURFACE WATER BODY.
 - SEED SHOULD BE SPREAD UNIFORMLY BY THE METHOD MOST APPROPRIATE FOR THE SITE. METHODS INCLUDE BROADCASTING, DRILLING, AND HYDROSEEDING. WHERE BROADCASTING IS USED, COVER SEED WITH 0.25 INCH OF SOIL OR LESS, BY CULTIPACKING OR RAKING.
 - REFER TO TABLE 7-35 FOR APPROPRIATE SEED MIXTURES AND TABLE 7-36 FOR RATES OF SEEDING. ALL LEGUMES (CROWN VETCH, BIRDFOOT, TREFLOIL AND FLATPEA) MUST BE INOCULATED WITH THEIR SPECIFIC INOCULANT.

- WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 10 TO SEPTEMBER 1.
- MULCH

HAY OR STRAW

1.5 TO 2 TONS PER ACRE, 70 TO 90 LBS. PER 1,000 SQ. FT. CAN BE SPREAD BY HAND OR BY MACHINE. MUST BE DRY AND FREE OF MOLD. MAY BE USED WITH PLANTINGS OR FOR EROSION CONTROL ALONE. SUBJECT TO BLOWING AND SLIPPING ON STEEP SLOPES UNLESS ANCHORED.
- MAINTENANCE TO ESTABLISH A STAND
 - PLANTED AREAS SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED GROWTH.
 - FERTILIZATION NEED SHOULD BE DETERMINED BY ONSITE INSPECTIONS. SUPPLEMENTAL FERTILIZER IS USUALLY THE KEY TO FULLY COMPLETE THE ESTABLISHMENT OF THE STAND BECAUSE MOST PERENNIALS TAKE 2 TO 3 YEARS TO BECOME ESTABLISHED.
 - IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE ANTICIPATED, OCCASIONAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WOODY VEGETATION

SEEDING FOR TEMPORARY PROTECTION OF DISTURBED AREAS SPECIFICATIONS:

REFERENCE: NEW HAMPSHIRE STORMWATER MANUAL VOLUME 3 EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION (DECEMBER 2008)

DEFINITION

SEEDING OF GRASS OR SMALL GRAIN SUCH AS RYE, OATS, OR RYEGRASS ON A DISTURBED AREA TO PROVIDE PROTECTION FOR A LIMITED PERIOD OF TIME, USUALLY NOT MORE THAN ONE YEAR.

PURPOSE

- TO PROVIDE TEMPORARY PROTECTION AGAINST WIND OR WATER EROSION.
- TO IMPROVE WATER QUALITY BY REDUCING SEDIMENTATION OF SURFACE WATERS.
- TO FURTHER REDUCE DAMAGE FORM SEDIMENT AND RUNOFF TO DOWNSTREAM AREAS.

PLANNING CONSIDERATIONS

- PREVENTING EROSION IS ALWAYS PREFERRED OVER SEDIMENT CONTROL. WHEN A DISTURBED AREA WILL BE INACTIVE FOR A PROLONGED PERIOD OF TIME, EROSION CONTROL MEASURES SHOULD BE USED.
- TEMPORARY SEEDING IS ONLY EFFECTIVE FOR EROSION CONTROL WHILE THE VEGETATION IS ESTABLISHED. ANNUAL PLANTS THAT SPROUT QUICKLY AND GROW FOR ONLY ONE YEAR ARE USED FOR THIS PRACTICE.
- ADEQUATE SEEDBED PREPARATION, USE OF QUALITY SEED, AND TIMELY PLANTING ARE REQUIRED TO ACHIEVE A GOOD STAND OF VEGETATION TO CONTROL EROSION.

SEEDING RECOMMENDATIONS

- GRADING AND TEMPORARY STRUCTURE

ALL ESSENTIAL GRADING AND ALL TEMPORARY STRUCTURES, SUCH AS DIVERSIONS DAMS, DITCHES, AND DRAINS NEEDED TO PREVENT GULLYING AND REDUCE SILTATION SHOULD BE COMPLETED PRIOR TO SEEDING.
- SEEDBED PREPARATION

REMOVE STONES AND TRASH THAT WILL INTERFERE WITH SEEDING THE AREA. WHERE FEASIBLE, TILL THE SOIL TO A DEPTH OF ABOUT 3 INCHES TO PREPARE A SEEDBED AND MIX FERTILIZER INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.
- FERTILIZERS

SHOULD BE UNIFORMLY SPREAD OVER THE AREA PRIOR TO BEING INCORPORATED INTO THE SOIL. A MINIMUM OF 300 POUNDS PER ACRE (7 POUNDS PER 1,000 SQUARE FEET) OF 10-10-10 FERTILIZER, OR ITS EQUIVALENT, SHOULD BE APPLIED.

FERTILIZER SHOULD BE RESTRICTED TO A LOW PHOSPHATE, SLOW RELEASE NITROGEN FERTILIZER WHEN APPLIED TO AREAS BETWEEN 25 FEET AND 250 FEET FROM A SURFACE WATER BODY. NO FERTILIZER EXCEPT LIMESTONE SHOULD BE APPLIED WITHIN 25 FEET OF A SURFACE WATER BODY.
- SEED AND SEEDING

SEED AND SEEDING RATES MAY BE SELECTED FROM THE TABLE BELOW. THE SELECTION WILL BE BASED ON THE TIME OF YEAR OF THE SEEDING IS TO BE MADE AND THE LENGTH OF TIME THE VEGETATION IS TO AFFORD THE PROTECTION. THE SEED SHOULD BE SPREAD UNIFORMLY OVER THE AREA. AFTER SEEDING, THE SOIL SHOULD BE FIRMED BY ROLLING OR PACKING. WHERE ROLLING OR PACKING IS NOT FEASIBLE, THE SEED SHOULD BE COVERED LIGHTLY BY RAKING, DISKING, OR DRAGGING.
- MULCHING

WHERE IT IS IMPRACTICABLE TO INCORPORATE FERTILIZER AND SEED INTO MOIST SOIL, THE SEEDED AREA SHOULD BE MULCHED TO FACILITATE GERMINATION.
- PLANT SELECTION AND SEEDING RATES

SPECIES	PER ACRE	PER 1000 SF	
WINTER RYE	2 BU. OR 120 LBS	2.5 LBS	BEST FOR FALL SEEDING. SEED FROM AUGUST 15 TO SEPTEMBER 5 FOR BEST COVER. SEED TO A DEPTH OF 1 INCH.
OATS	2.5 BU. OR 80 LBS	2 LBS MAY 15	BEST FOR SPRING SEEDINGS. SEED NO LATER THAN FOR SUMMER PROTECTION. SEED TO A DEPTH OF 1 INCH.
ANNUAL RYEGRASS	40 LBS	1 LB.	GROWS QUICKLY, BUT IS OF SHORT DURATION. USE WHERE APPEARANCES ARE IMPORTANT. SEE EARLY SPRING AND/OR BETWEEN AUGUST 15 AND SEPTEMBER 15. COVER SEED WITH NO MORE THAN 0.25 INCH OF SOIL.

TABLE 7-35 -- SEEDING GUIDE

USE	SEEDING MIXTURE 1/	DROUGHTY	SOIL DRAINAGE		
			WELL DRAINED	MODERATELY WELL DRAINED	POORLY DRAINED
STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	A B C D E	FAIR POOR POOR FAIR FAIR	GOOD GOOD GOOD FAIR EXCELLENT	GOOD FAIR EXCELLENT GOOD EXCELLENT	FAIR FAIR GOOD EXCELLENT POOR

(TOPSOIL IS ESSENTIAL FOR GOOD TURF.)

1/ REFER TO SEEDING MIXTURES AND RATES IN TABLE 7-36

TABLE 7-36 -- SEEDING MIXTURES AND RATES

MIXTURE	POUNDS PER ACRE	POUNDS PER 1,000 SQ. FT.
A. TALL FESCUE	20	0.45
CREeping RED FESCUE	20	0.45
RED TOP	2	0.05
TOTAL	42	0.95
B. TALL FESCUE	15	0.35
CREeping RED FESCUE	10	0.25
CROWN VETCH OR FLATPEA	15 30	0.35 0.75
TOTAL	40 OR 55	0.95 OR 1.35
C. TALL FESCUE	20	0.45
CREeping RED FESCUE	20	0.45
BIRDFOOT TREFLOIL	8	0.20
TOTAL	48	1.1
D. BIRDFOOT TREFLOIL	20	0.25
READTOP	10	0.10
TOTAL	30	0.70
E. TALL FESCUE	20	0.45
FLATPEA	30	0.75
TOTAL	50	1.20

MAINTENANCE

- IF THE SEEDING FAILS TO GROW, IT MAY NEED TO BE RE-ESTABLISHED TO PROVIDE ADEQUATE EROSION CONTROL.
- IF WEEDS BECOME A PROBLEM, THEY MAY NEED TO BE CONTROLLED BY MOWING.

EROSION CONTROL INSPECTION MONITORING, AND MAINTENANCE:

- AT LEAST ONCE EVERY 7 CALENDAR DAYS AND DURING OR WITHIN 24 HOURS OF ANY RAIN EVENT IN WHICH 1 INCH OF PRECIPITATION OR MORE FALLS WITHIN A 24-HOUR PERIOD. THE CONTRACTOR SHALL HAVE QUALIFIED PERSONNEL INSPECT ALL CLEARED AND GRADED AREAS OF THE CONSTRUCTION SITE AND ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES.
- THIS INSPECTION WILL VERIFY THAT ALL EROSION CONTROL DEVICES ARE IN GOOD AND WORKING CONDITION. DISCHARGE LOCATIONS WILL BE INSPECTED TO VERIFY THAT SEDIMENTS ARE NOT ENTERING THE DRAINAGE SYSTEM AND ARE NOT EXITING THE PROJECT SITE. VEHICLE ACCESS LOCATIONS WILL BE INSPECTED FOR EVIDENCE OF SEDIMENT TRACKING INTO THE PUBLIC RIGHT-OF-WAY.
- ANY OBSERVED ACCUMULATION OF SEDIMENT OFF THE SITE WILL BE IMMEDIATELY REMOVED AND THE AREA RESTORED TO PRE-CONSTRUCTION CONDITIONS.
- THE CONTRACTOR SHALL MAINTAIN INSPECTION AND REPAIR REPORTS OF EROSION AND SEDIMENT CONTROL MONITORING AND THESE SHALL BE KEPT AT THE PROJECT SITE DURING CONSTRUCTION. THE REPORTS SHALL INCLUDE THE FOLLOWING:

- THE INSPECTION DATE;
- NAMES, TITLES, AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION;
- WEATHER INFORMATION AND A DESCRIPTION OF ANY DISCHARGES OCCURRING AT THE TIME OF THE INSPECTION;
- LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE;
- LOCATION(S) OF BMPS THAT NEED TO BE MAINTAINED;
- LOCATION(S) OF BMPS THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION;
- LOCATION(S) WHERE ADDITIONAL BMPS ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION; AND
- CORRECTIVE ACTION REQUIRED INCLUDING IMPLEMENTATION DATES

- TEMPORARY MEASURES

INSPECTION SHALL VERIFY THAT ANY TEMPORARY MEASURES BEING USED BY THE CONTRACTOR ARE CONSTRUCTED AND OPERATING IN ACCORDANCE WITH APPROVED STANDARDS AND SPECIFICATIONS. MEASURES SHALL BE REPAIRED AND ACCUMULATION OF SEDIMENTS SHALL BE CLEAN.

TOWN OF HILLSBOROUGH, NEW HAMPSHIRE

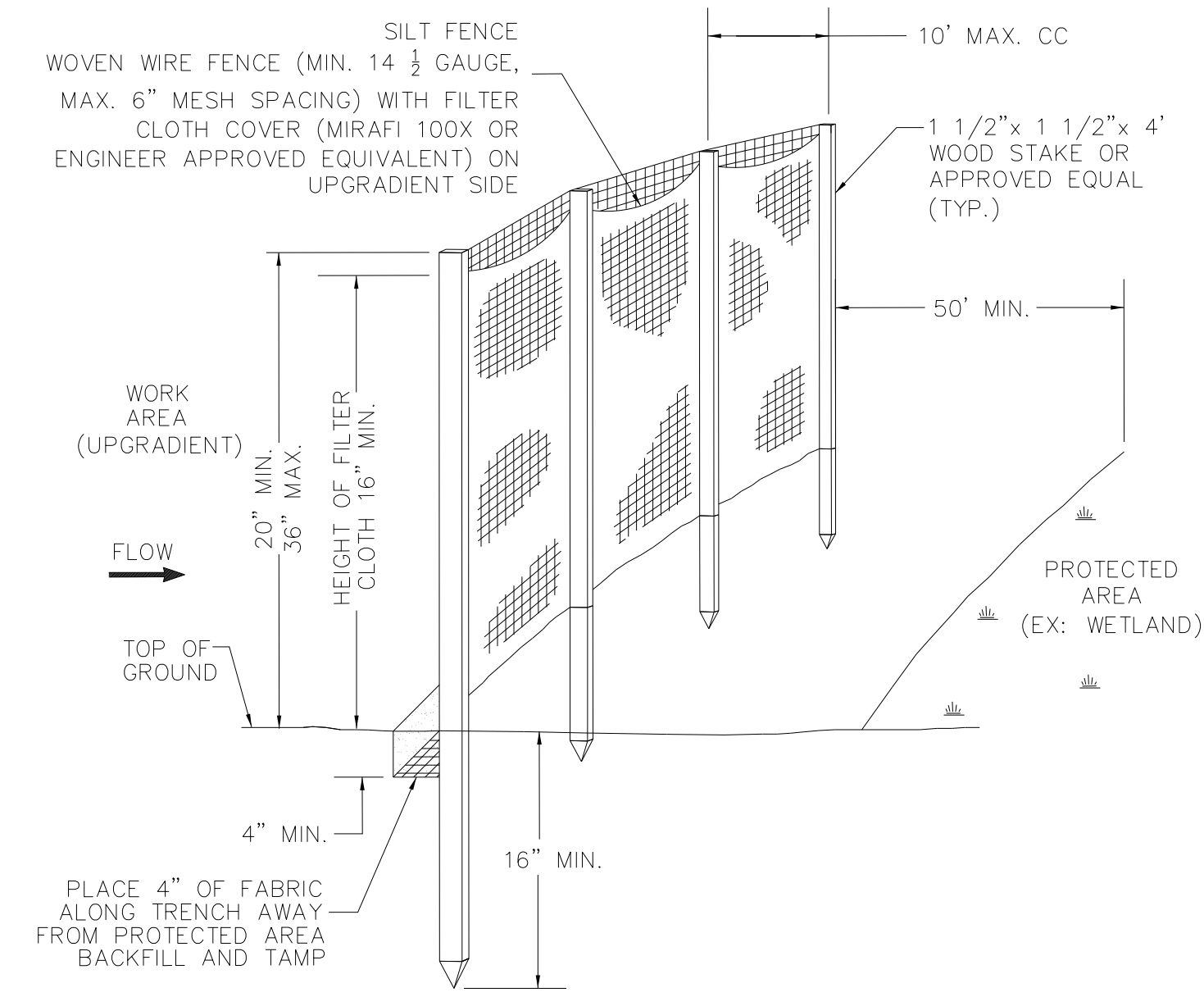
EROSION CONTROL NOTES (SHEET 2 OF 2)

D&K NO. 324277



DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368ecnotes	41368	90	65

REVISIONS AFTER PROPOSAL	STATION	DESCRIPTION
STATION		
DATE		
NUMBER		
DATE		
DATE		
DATE		



SILT FENCE

GENERAL DESCRIPTION

TEMPORARY SEDIMENT BARRIER CONSISTING OF FILTER FABRIC ATTACHED TO SUPPORTING POSTS AND ENTRENCHED IN SOIL. INSTALLED ACROSS OR AT THE TOE OF A SLOPE PERPENDICULAR TO RUNOFF (EXCEPT FOR ENDS FLARING UPSLOPE) TO INTERCEPT AND RETAIN SMALL AMOUNTS OF SEDIMENT FROM DISTURBED OR UNPROTECTED AREAS.

PURPOSE

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

CONSIDERATIONS

SILT FENCE USED WHERE:

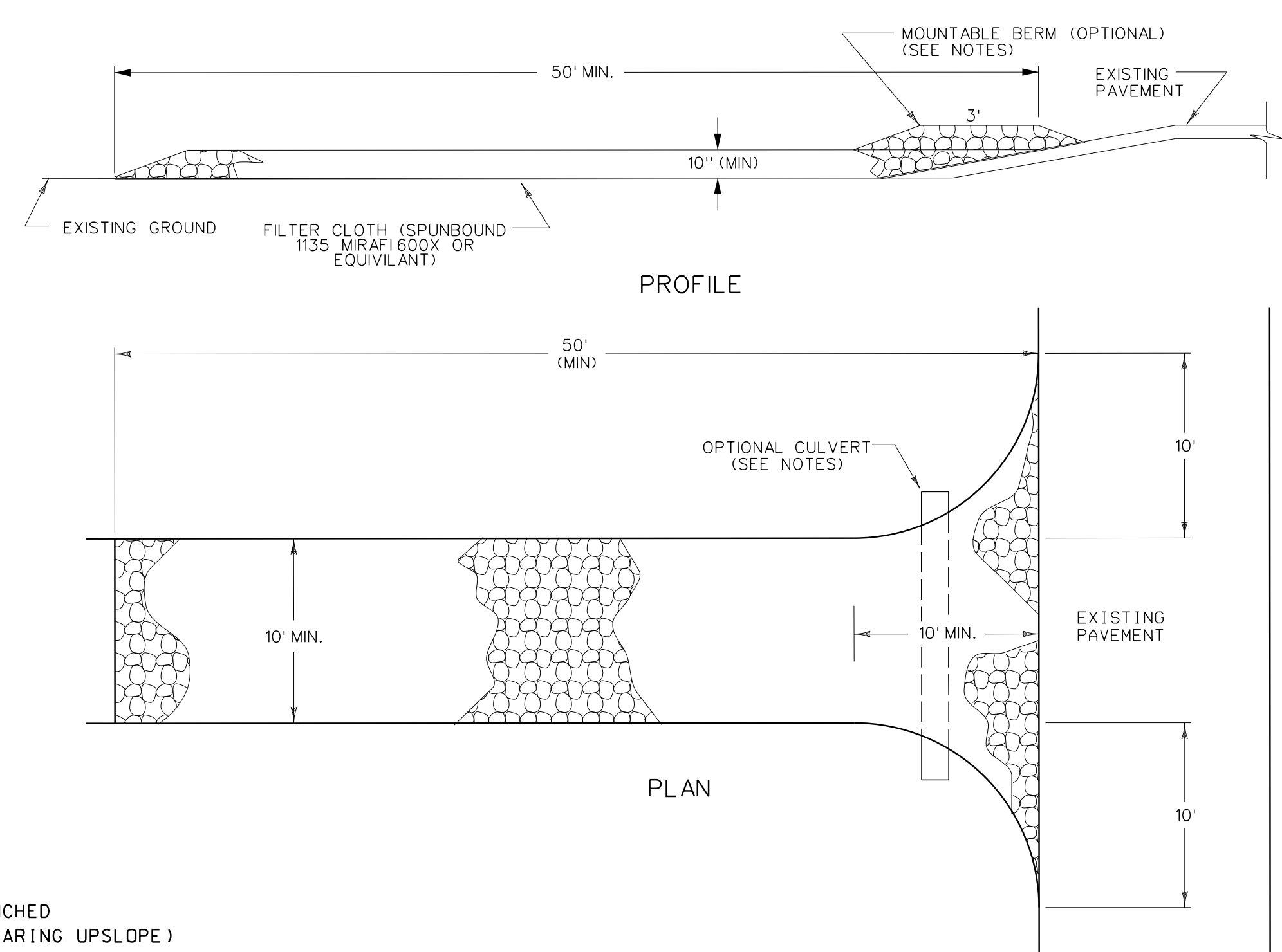
- * MAXIMUM LENGTH OF SLOPE ABOVE THE BARRIER IS 100 FEET; AND
- * MAXIMUM GRADIENT ABOVE THE BARRIER IS 50 PERCENT (2:1); AND
- * CONTRIBUTING DRAINAGE AREA IS LESS THAN 1/4 ACRE PER 100 FEET OF BARRIER LENGTH; AND
- * IF ANY OF THESE CONDITIONS ARE EXCEEDED, OTHER MEASURES MAY BE NECESSARY

SPECIFICATIONS

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

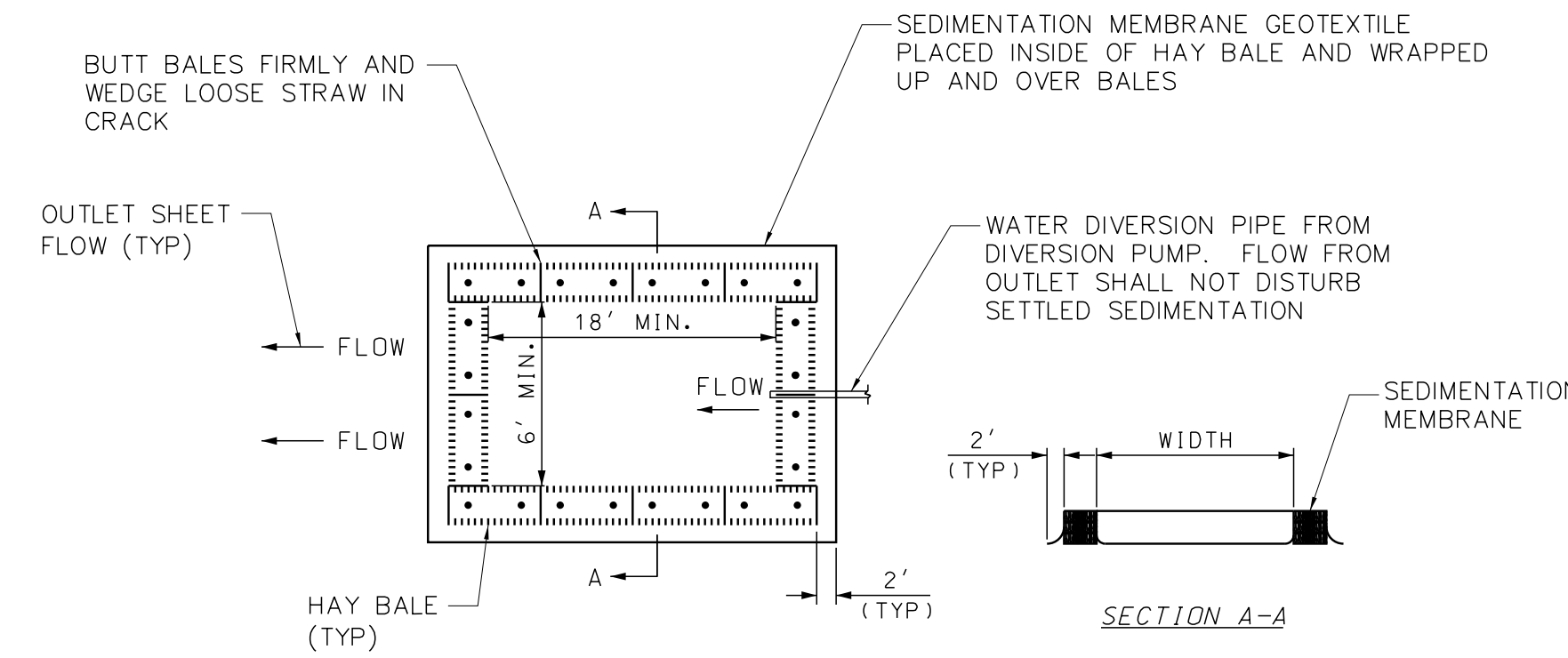
MAINTENANCE AND REMOVAL REQUIREMENTS

- INSPECT AND MAINTAIN IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
- REMOVE SEDIMENT DEPOSITION, AT A MINIMUM, WHEN DEPOSITION ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FENCE, AND MOVE SO SEDIMENT NOT READILY TRANSPORTED BACK TOWARD THE SILT FENCE.
- REPAIR SILT FENCE IMMEDIATELY IF THERE ARE ANY SIGNS OF EROSION OR SEDIMENTATION BELOW THEM. IF THERE ARE SIGNS OF UNDERCUTTING AT THE CENTER OR THE EDGES OF BARRIER, OR IMPOUNDING OF LARGE VOLUMES OF WATER BEHIND THEM, SEDIMENT BARRIERS TO BE REPLACED WITH A TEMPORARY CHECK DAM.
- IF SILT FENCE FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, REPLACE FABRIC PROMPTLY.
- DRESS REMAINING SEDIMENT DEPOSITS AFTER SILT FENCE IS NO LONGER REQUIRED TO CONFORM TO THE EXISTING GRADE, PREPARE, AND SEED.
- IF EVIDENCE OF END FLOW ON PROPERLY INSTALLED BARRIERS, EXTEND BARRIERS UPHILL OR CONSIDER REPLACING THEM WITH OTHER MEASURES, SUCH AS TEMPORARY DIVERSIONS AND SEDIMENT TRAPS.
- SILT FENCES HAVE USEFUL LIFE OF ONE SEASON. ON LONGER CONSTRUCTION PROJECTS, SILT FENCE TO BE REPLACED PERIODICALLY AS REQUIRED TO MAINTAIN EFFECTIVENESS.
- REMOVE AFTER CONSTRUCTION IS COMPLETED AND ALL AREAS ARE STABILIZED.



USDA - SCS STABILIZED CONSTRUCTION ENTRANCE (TYP.)

- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
- ALL COSTS FOR CONSTRUCTION, MAINTENANCE, AND REMOVAL OF STABILIZED CONSTRUCTION ENTRANCE SHALL BE INCIDENTAL TO ITEM 692, MOBILIZATION.



TEMPORARY SEDIMENTATION BASIN DETAIL

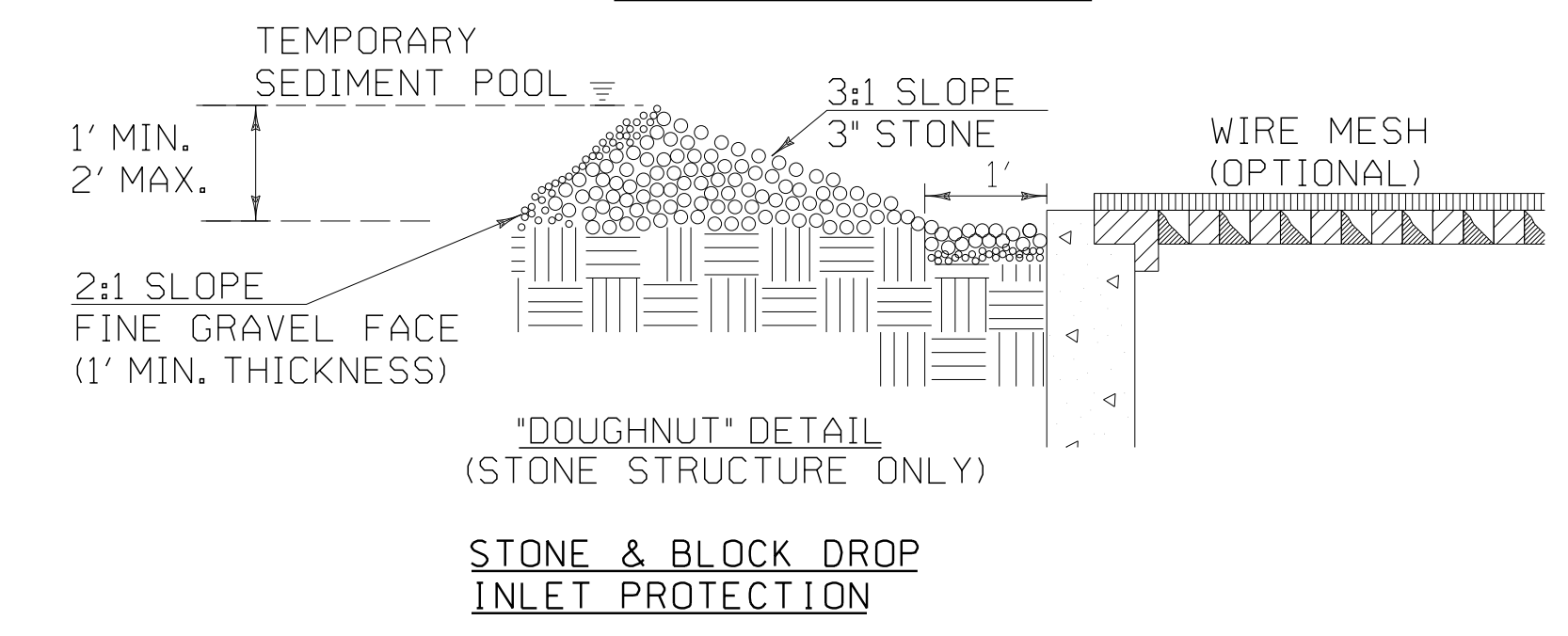
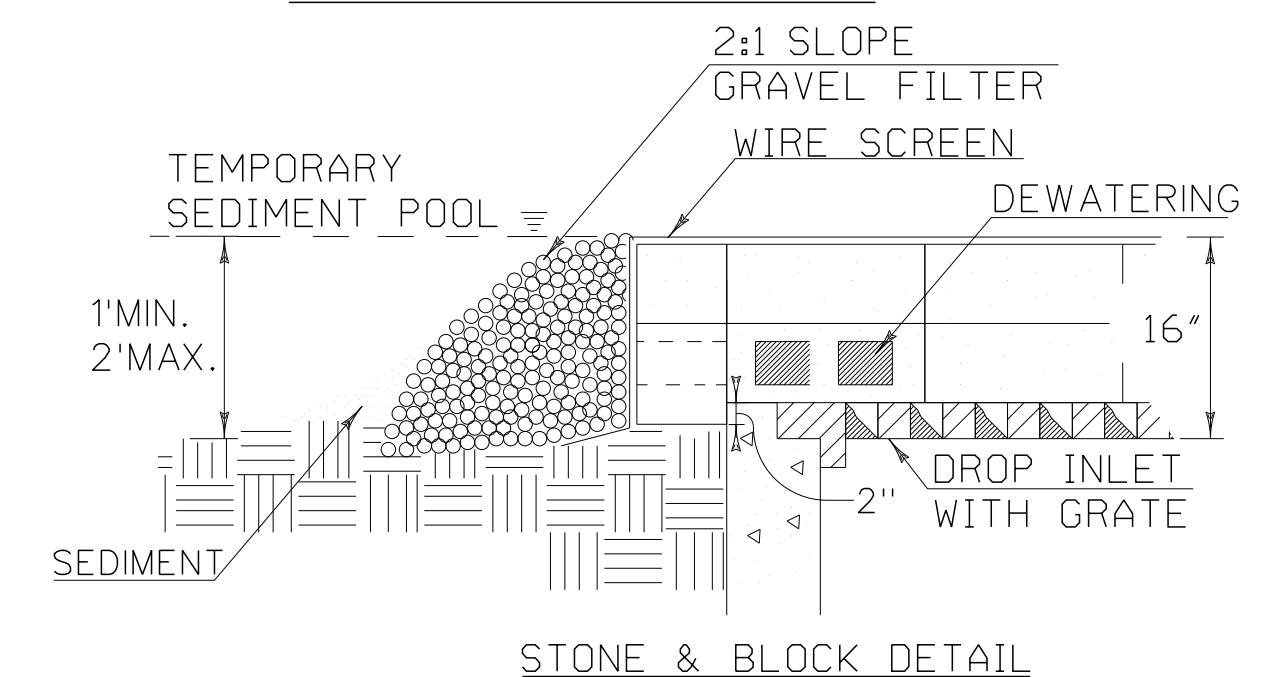
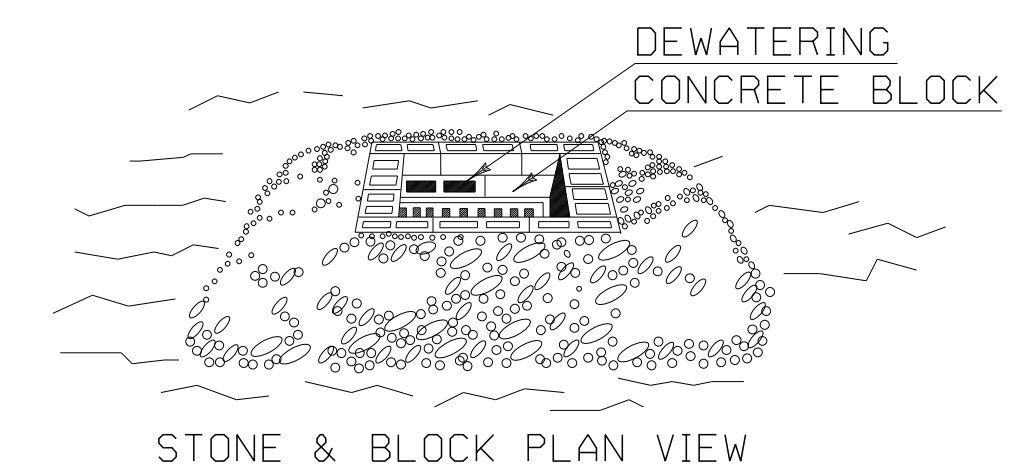
NOTES:

- THE BALES SHALL BE WIRE OR NYLON TIED. TO PRESERVE THE BINDINGS AS LONG AS POSSIBLE, THE BALES SHOULD BE INSTALLED WITH THE BINDINGS LOCATED AROUND THE SIDES OF THE BALE RATHER THAN ALONG THE TOP AND BOTTOM OF BALE.
- DIMENSIONS OF SEDIMENTATION BASIN SHALL BE FIELD DETERMINED TO ENSURE THAT OUTLET FLOW IS CLEAN OF SEDIMENT. LENGTHEN SEDIMENTATION BASIN AS NECESSARY TO ENSURE CLEAR OUTFLOW. OUTFLOW OF SEDIMENTATION BASIN SHALL BE LOCATED OPPOSITE FROM INFLOW OF DIVERSION PIPE.
- INLET DIVERSION PIPE SHALL NOT BE LOCATED ALONG THE BOTTOM OF BASIN TO PREVENT DISTURBANCE OF SETTLED SEDIMENTATION.
- COLLECTED SEDIMENT SHALL BE REMOVED ONCE ACCUMULATION HAS BEEN RECORDED TO A MAXIMUM DEPTH OF 4-INCHES.

RECOMMENDED CONTROL OF WATER SEQUENCING

BELOW IS A RECOMMENDED SEQUENCED CONTROL OF WATER OPERATIONS AND SHALL GENERALLY BE FOLLOWED. PROPOSED CHANGES TO THIS PLAN MUST RECEIVE PRIOR APPROVAL BY THE NHDES AND THE ENGINEER. COST FOR CONTROL OF WATER OPERATIONS SHALL BE INCLUDED UNDER ITEM 503.301, COFFERDAMS WITH SHEETING LEFT-IN-PLACE.

- INSTALL COFFERDAM, CHANNELING RIVER FLOW TO THE FAR SIDE OF INTENDED EXCAVATION AREA, ENABLING WORK TO BE PERFORMED IN THE DRY.
- EXCAVATE MATERIAL TO THE SPECIFIED LIMITS SHOWN ON THE PLANS.
- PUMPING MAY BE REQUIRED TO MAINTAIN A DRY WORK AREA. INSTALL TEMPORARY SUPPORTS AS NECESSARY, AS THE AREA IS EXCAVATED.
- CONSTRUCT NEW ABUTMENTS AS SPECIFIED. BACKFILL EXCAVATION AND PLACE RIPRAP.
- RELOCATE COFFERDAM TO CHANNEL RIVER FLOW TO THE SIDE OF COMPLETED CONSTRUCTION, CREATING DRY CONDITIONS ON THE OPPOSITE SIDE OF RIVER.
- EXCAVATE MATERIAL TO THE SPECIFIED LIMITS SHOWN ON THE PLANS.
- PUMPING MAY BE REQUIRED TO MAINTAIN A DRY WORK AREA. INSTALL TEMPORARY SUPPORTS AS NECESSARY, AS THE AREA IS EXCAVATED.
- CONSTRUCT NEW ABUTMENT AS SPECIFIED. BACKFILL EXCAVATION AND PLACE RIPRAP.
- REMOVE COFFERDAM AND RESTORE WATERWAY CONDITIONS ACCORDING TO THE PLAN PROVIDED.



CONSTRUCTION SPECIFICATIONS

- LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2" MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
- HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
- USE CLEAN STONE OR GRAVEL 1/2"- 3/4" IN DIAMETER PLACED 2" BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
- FOR STONE STRUCTURES ONLY, A 1' THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3" STONE AS SHOWN ON THE DRAWINGS.
- MAXIMUM DRAINAGE AREA 1 ACRE

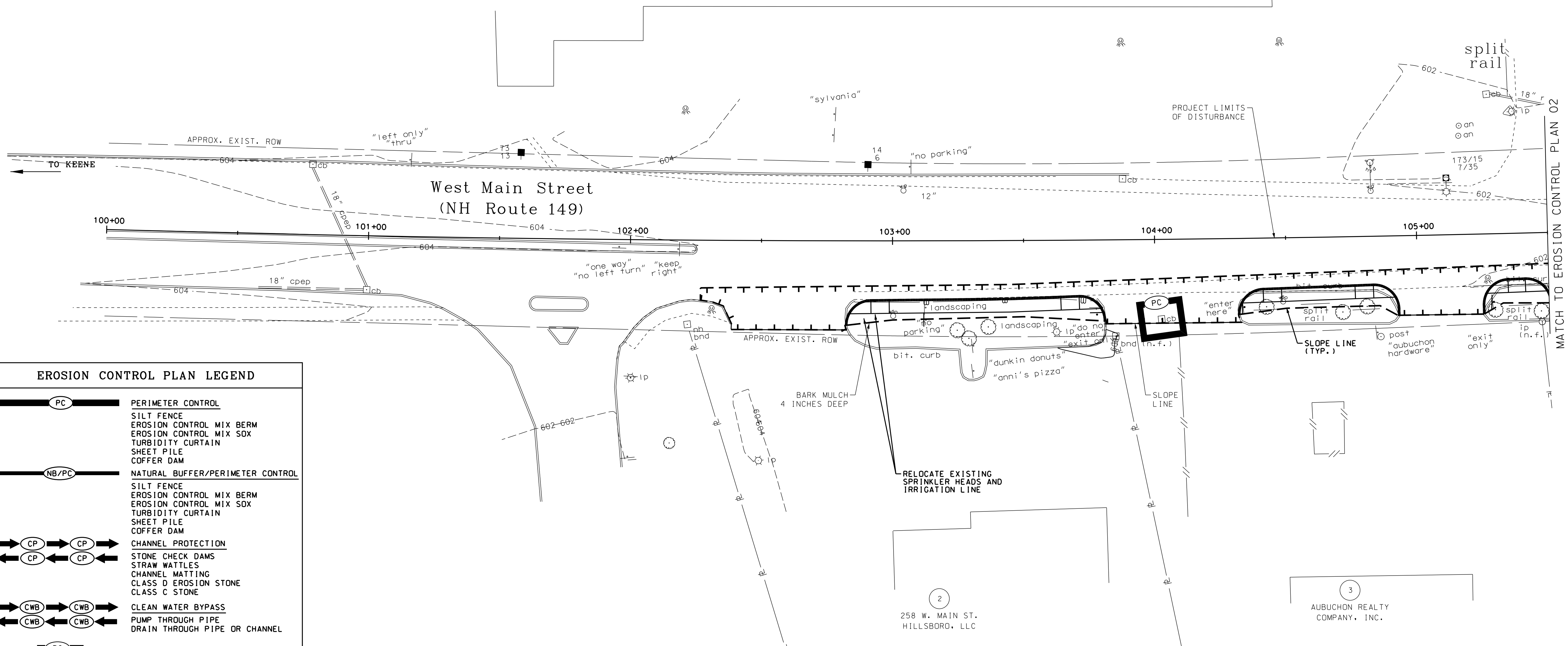
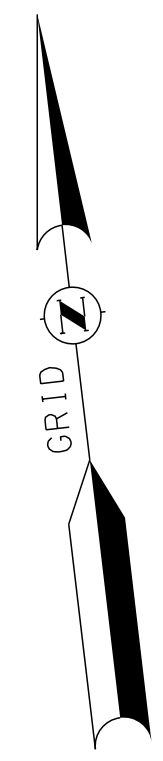
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TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
EROSION CONTROL DETAILS			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368ecdetails	41368	91	65

SDR PROCESSED	DATE	DESCRIPTION
NEW DESIGN	3/28/2023	
SHEET CHECKED	3/28/2023	
ENGINEER	BRIAN M. BRESLEND	NO. 15117
AS BUILT DETAILS		

1
OSRAM SYLVANIA, INC.



MATCH TO EROSION CONTROL PLAN 02

EROSION CONTROL PLAN LEGEND	
	PERIMETER CONTROL SILT FENCE EROSION CONTROL MIX BERM EROSION CONTROL MIX SOX TURBIDITY CURTAIN SHEET PILE COFFER DAM
	NATURAL BUFFER/PERIMETER CONTROL SILT FENCE EROSION CONTROL MIX BERM EROSION CONTROL MIX SOX TURBIDITY CURTAIN SHEET PILE COFFER DAM
	CHANNEL PROTECTION STONE CHECK DAMS STRAW WATTLES CHANNEL MATTING CLASS D EROSION STONE CLASS C STONE
	CLEAN WATER BYPASS PUMP THROUGH PIPE DRAIN THROUGH PIPE OR CHANNEL
	FILTER FABRIC DROP INLET PROTECTION
	ROLLED EROSION CONTROL PRODUCT (RECP) 653.20 (TEMP. EROSION MATTING)
	TEMPORARY SLOPE MATTING, TYPE D (WILDLIFE FRIENDLY)

2
258 W. MAIN ST.
HILLSBORO, LLC

3
AUBUCHON REALTY
COMPANY, INC.



D&K NO. 324277



TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
EROSION CONTROL PLAN 01			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368epsc	41368	92	112

SDR PROCESSED	---	DATE	---
NEW DESIGN	GMC/TAM	DATE	3/28/2023
SHEET CHECKED	BMB	DATE	3/28/2023
ENGINEER	BRIAN M. BRESLEND	NO.	15117
AS BUILT DETAILS		DATE	

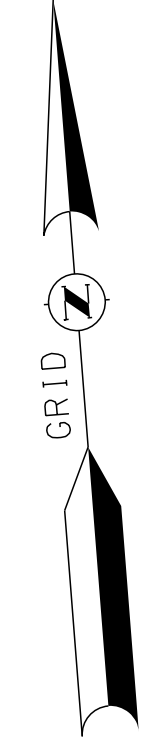
REVISIONS AFTER PROPOSAL	STATION	DESCRIPTION

1
OSRAM SYLANIA, INC.

5
OSRAM SYLANIA, INC.

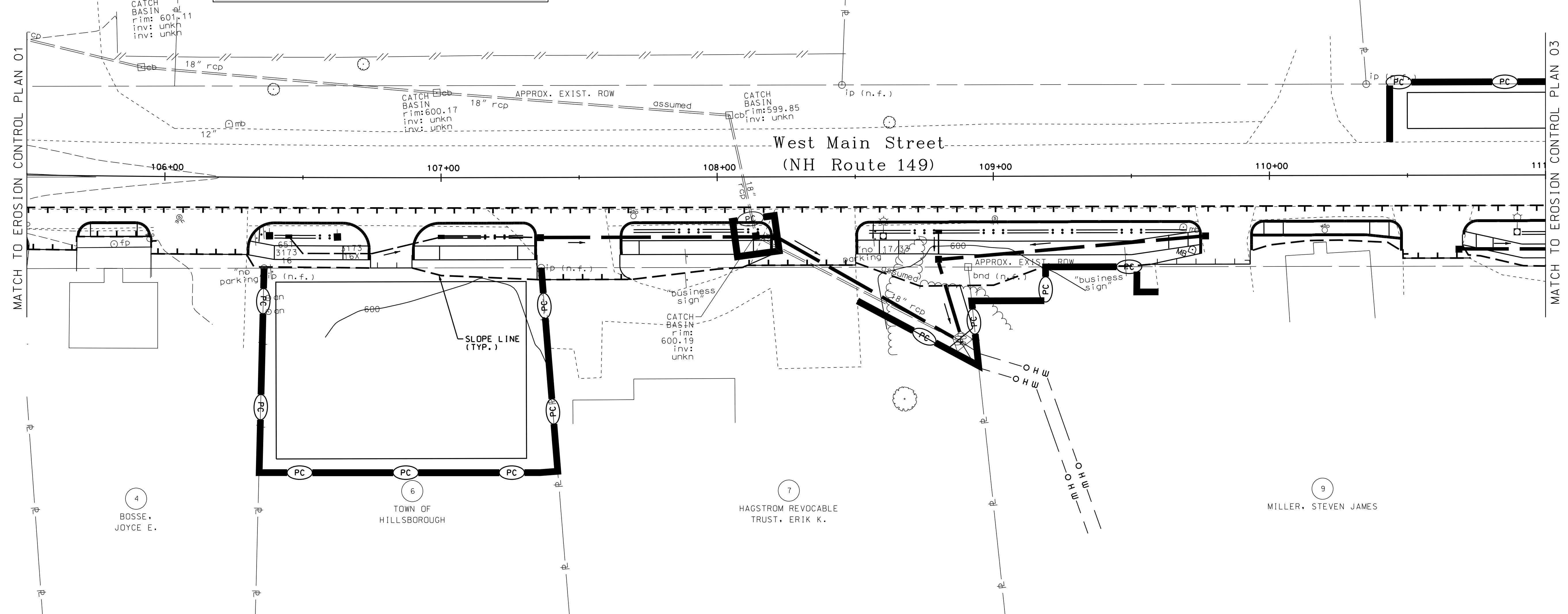
8
OSRAM SYLANIA, INC.

10
SHEE, WILLIAMS S. JR.



EROSION CONTROL PLAN LEGEND	
	PERIMETER CONTROL SILT FENCE EROSION CONTROL MIX BERM EROSION CONTROL MIX SOX TURBIDITY CURTAIN SHEET PILE COFFER DAM
	NATURAL BUFFER/PERIMETER CONTROL SILT FENCE EROSION CONTROL MIX BERM EROSION CONTROL MIX SOX TURBIDITY CURTAIN SHEET PILE COFFER DAM
	CHANNEL PROTECTION STONE CHECK DAMS STRAW WATTLES CHANNEL MATTING CLASS D EROSION STONE CLASS C STONE
	CLEAN WATER BYPASS PUMP THROUGH PIPE DRAIN THROUGH PIPE OR CHANNEL

EROSION CONTROL PLAN LEGEND	
	FILTER FABRIC DROP INLET PROTECTION
	ROLLED EROSION CONTROL PRODUCT (RECP) 653.20 (TEMP. EROSION MATTING)



MATCH TO EROSION CONTROL PLAN 01

MATCH TO EROSION CONTROL PLAN 03

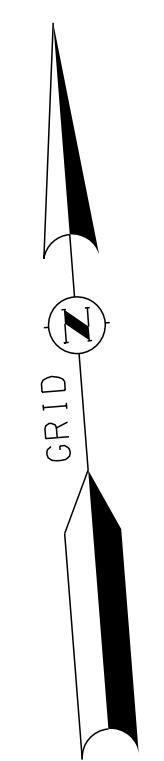
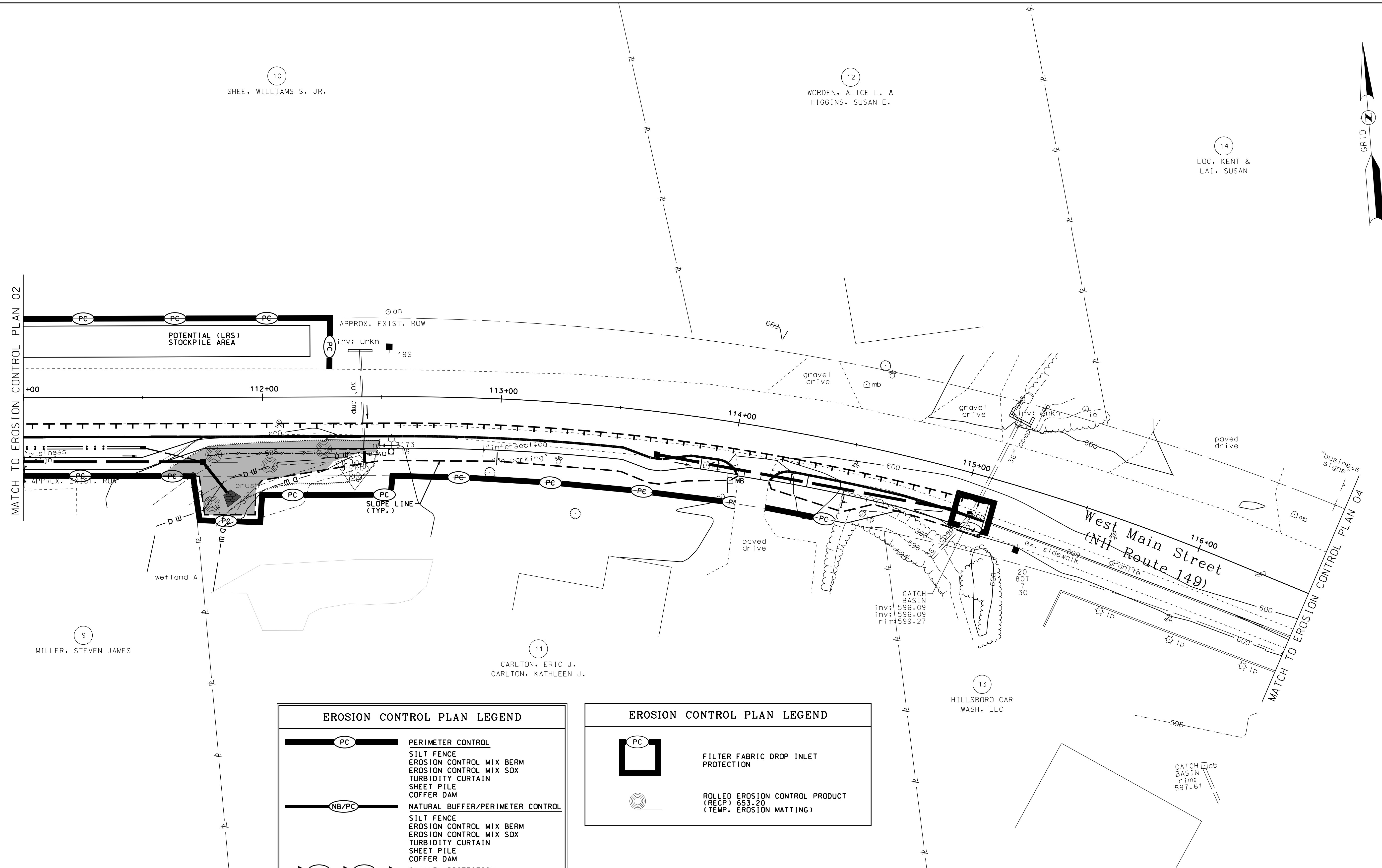


D&K NO. 324277



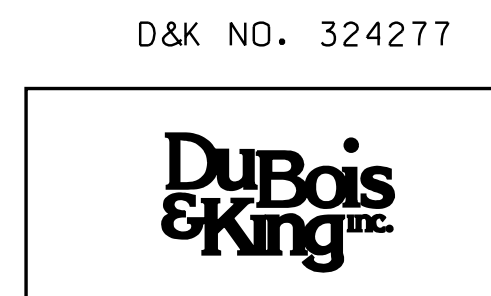
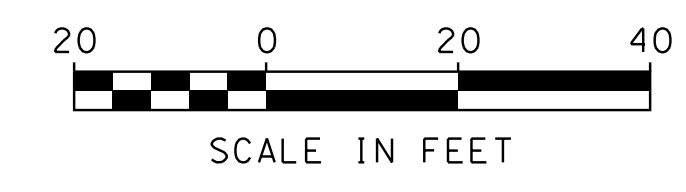
TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
EROSION CONTROL PLAN 02			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368epsc	41368	93	112

SDR PROCESSED	DATE	DESCRIPTION
NEW DESIGN	3/28/2023	
SHEET CHECKED	3/28/2023	
ENGINEER	BRIAN M. BRESLEND	NO. 15117
AS BUILT DETAILS		



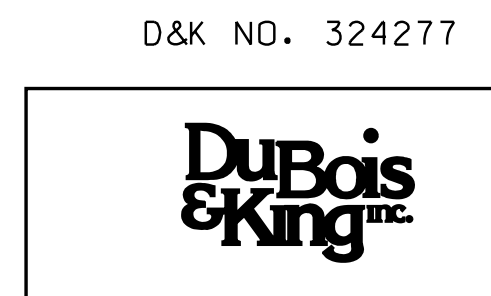
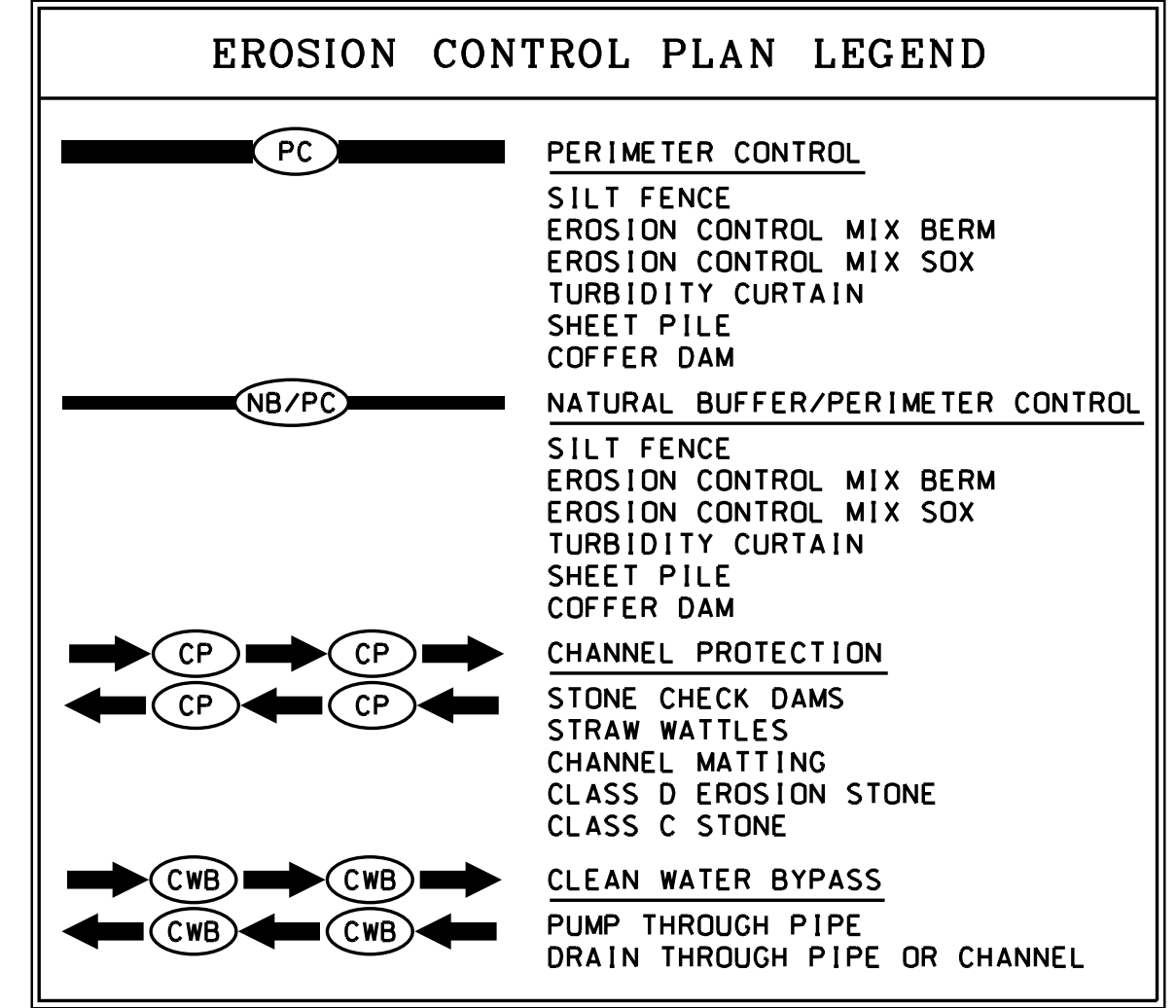
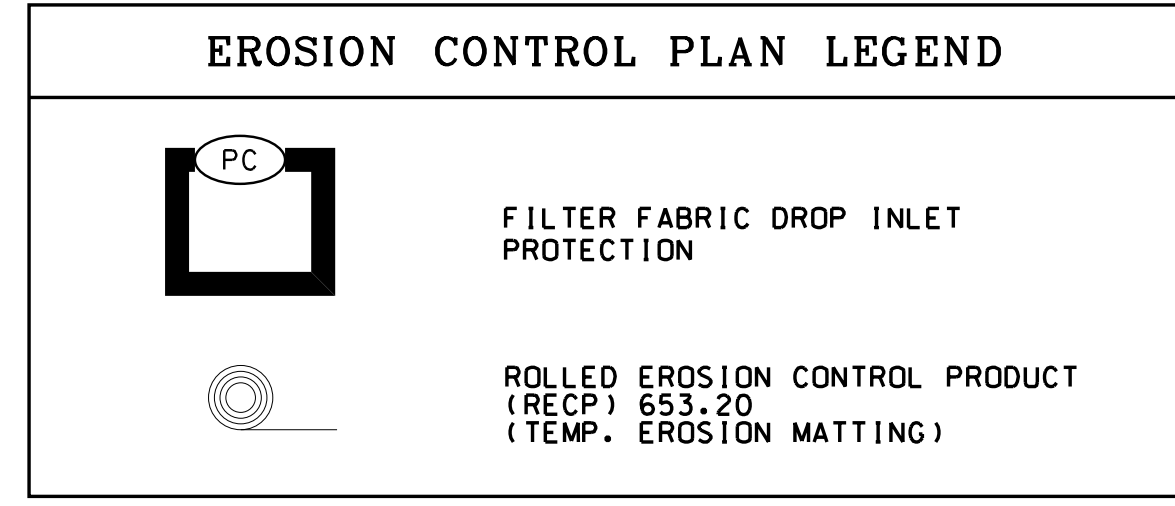
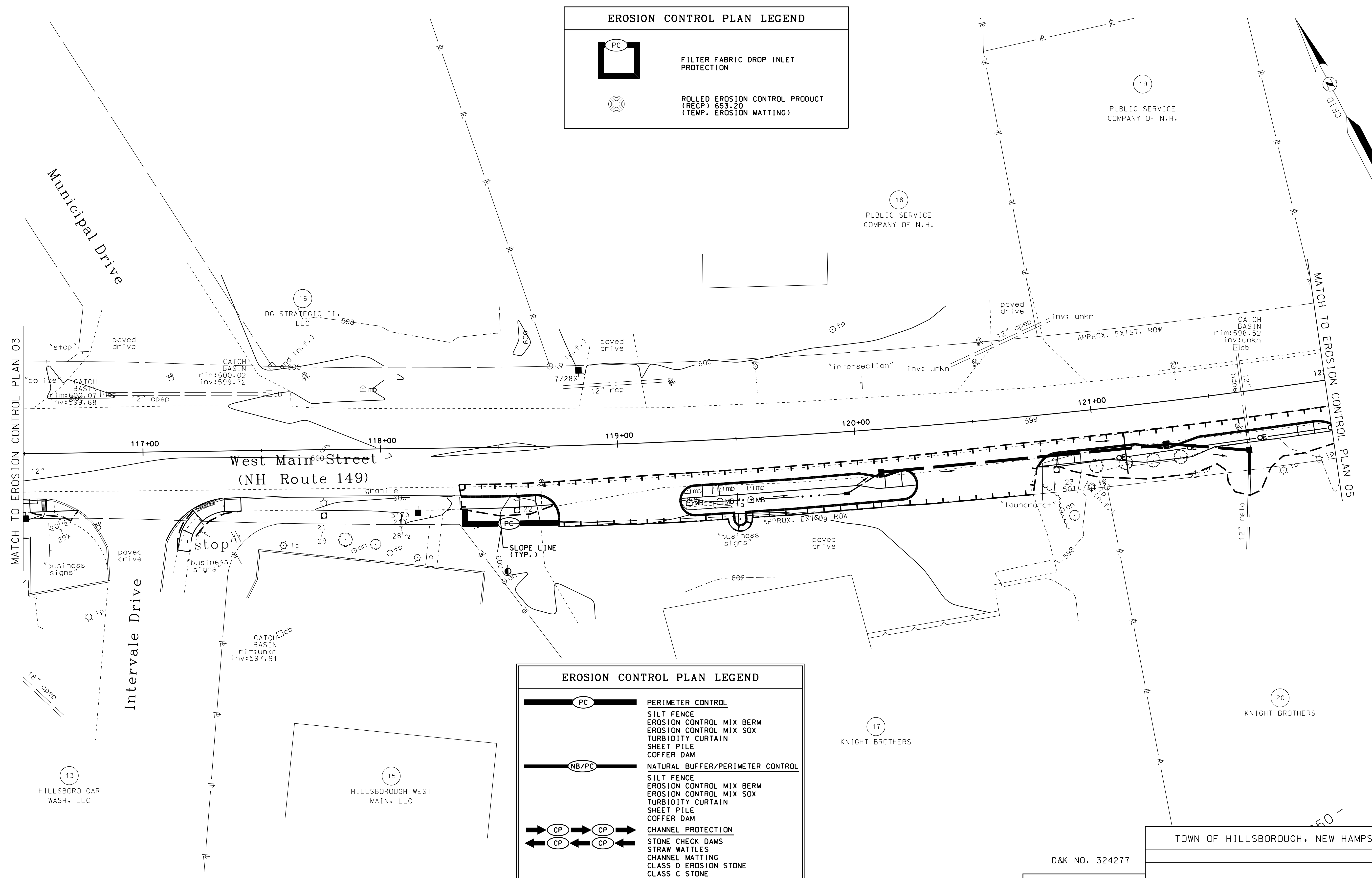
EROSION CONTROL PLAN LEGEND	
	PERIMETER CONTROL SILT FENCE EROSION CONTROL MIX BERM EROSION CONTROL MIX SOX TURBIDITY CURTAIN SHEET PILE COFFER DAM
	NATURAL BUFFER/PERIMETER CONTROL SILT FENCE EROSION CONTROL MIX BERM EROSION CONTROL MIX SOX TURBIDITY CURTAIN SHEET PILE COFFER DAM
	CHANNEL PROTECTION STONE CHECK DAMS STRAW WATTLES CHANNEL MATTING CLASS D EROSION STONE CLASS C STONE
	CLEAN WATER BYPASS PUMP THROUGH PIPE DRAIN THROUGH PIPE OR CHANNEL

EROSION CONTROL PLAN LEGEND	
	FILTER FABRIC DROP INLET PROTECTION
	ROLLED EROSION CONTROL PRODUCT (RECP) 653.20 (TEMP. EROSION MATTING)



TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
D&K NO. 324277			
EROSION CONTROL PLAN 03			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368epsc	41368	94	112

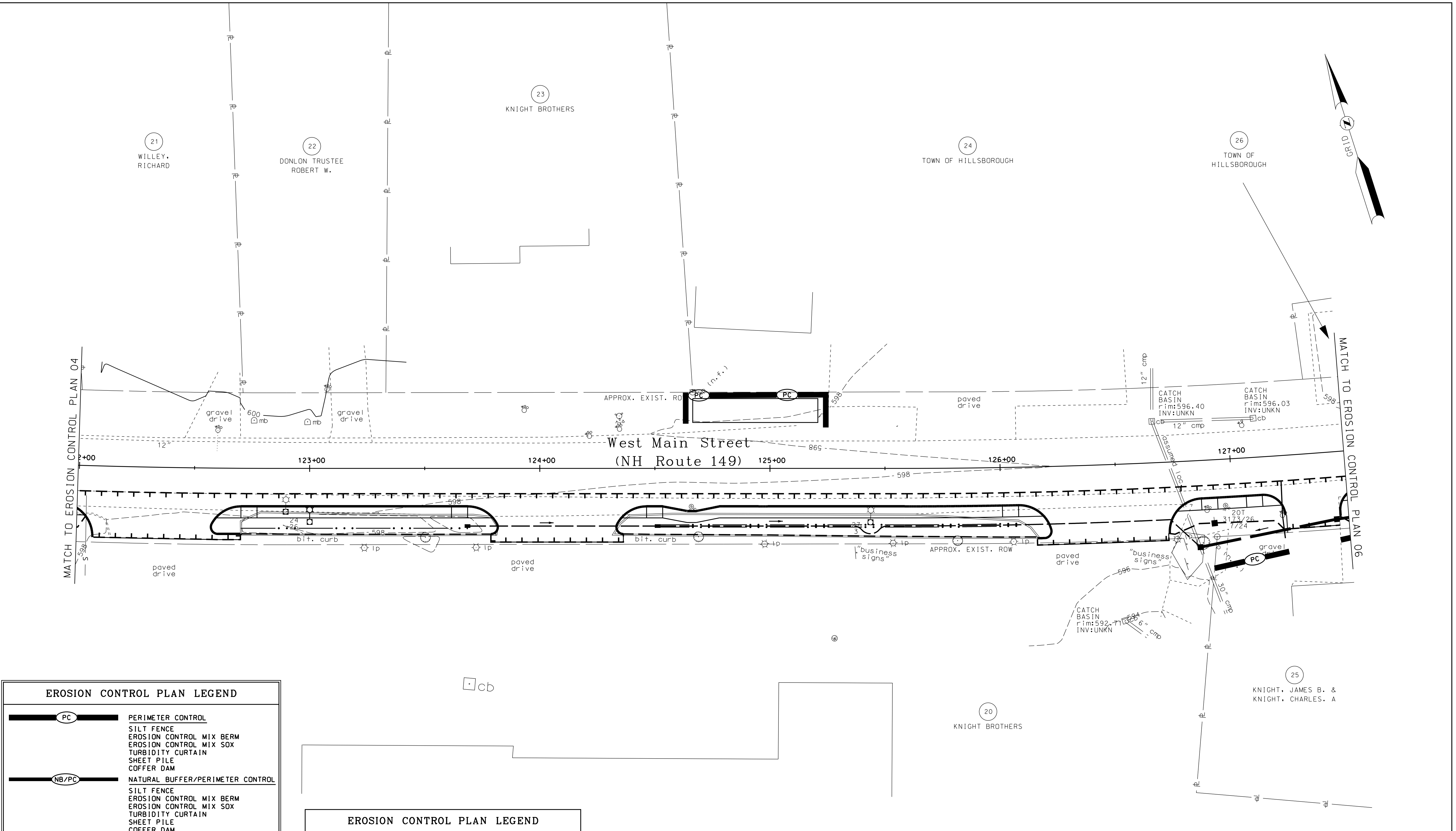
SDR PROCESSED	DATE	DESCRIPTION
NEW DESIGN	3/28/2023	GMC/TAM
SHEET CHECKED	3/28/2023	BMB
ENGINEER	15117	BRIAN M. BRESLEND
NO. 15117		
AS BUILT DETAILS		



TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
EROSION CONTROL PLAN 04			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368epsc	41368	95	112

REVISIONS AFTER PROPOSAL	STATION	DESCRIPTION

SDR PROCESSED		DATE		REVISIONS AFTER PROPOSAL	
NEW DESIGN	GMC/TAM	DATE	3/28/2023	STATION	DESCRIPTION
SHEET CHECKED	BMB	DATE	3/28/2023	NUMBER	
ENGINEER	BRIAN M. BRESLEND	NO.	15117	DATE	
AS BUILT DETAILS					



EROSION CONTROL PLAN LEGEND	
	PERIMETER CONTROL SILT FENCE EROSION CONTROL MIX BERM EROSION CONTROL MIX SOX TURBIDITY CURTAIN SHEET PILE COFFER DAM
	NATURAL BUFFER/PERIMETER CONTROL SILT FENCE EROSION CONTROL MIX BERM EROSION CONTROL MIX SOX TURBIDITY CURTAIN SHEET PILE COFFER DAM
	CHANNEL PROTECTION STONE CHECK DAMS STRAW WATTLES CHANNEL MATTING CLASS D EROSION STONE CLASS C STONE
	CLEAN WATER BYPASS PUMP THROUGH PIPE DRAIN THROUGH PIPE OR CHANNEL

EROSION CONTROL PLAN LEGEND	
	FILTER FABRIC DROP INLET PROTECTION
	ROLLED EROSION CONTROL PRODUCT (RECP) 653.20 (TEMP. EROSION MATTING)



D&K NO. 324277

DuBois & King

TOWN OF HILLSBOROUGH, NEW HAMPSHIRE

EROSION CONTROL PLAN 05

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368epsc	41368	96	112

SDR PROCESSED	---	DATE	---
NEW DESIGN	GMC/TAM	DATE	3/28/2023
SHEET CHECKED	BMB	DATE	3/28/2023
ENGINEER	BRIAN M. BRESLEND	NO.	15117
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL	STATION	DESCRIPTION

EROSION CONTROL PLAN LEGEND

FILTER FABRIC DROP INLET PROTECTION

ROLLED EROSION CONTROL PRODUCT (RECP) 653.20 (TEMP. EROSION MATTING)

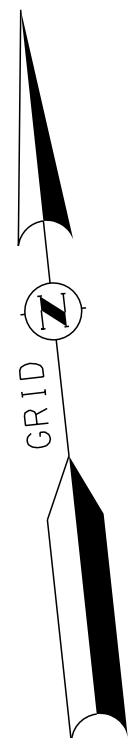
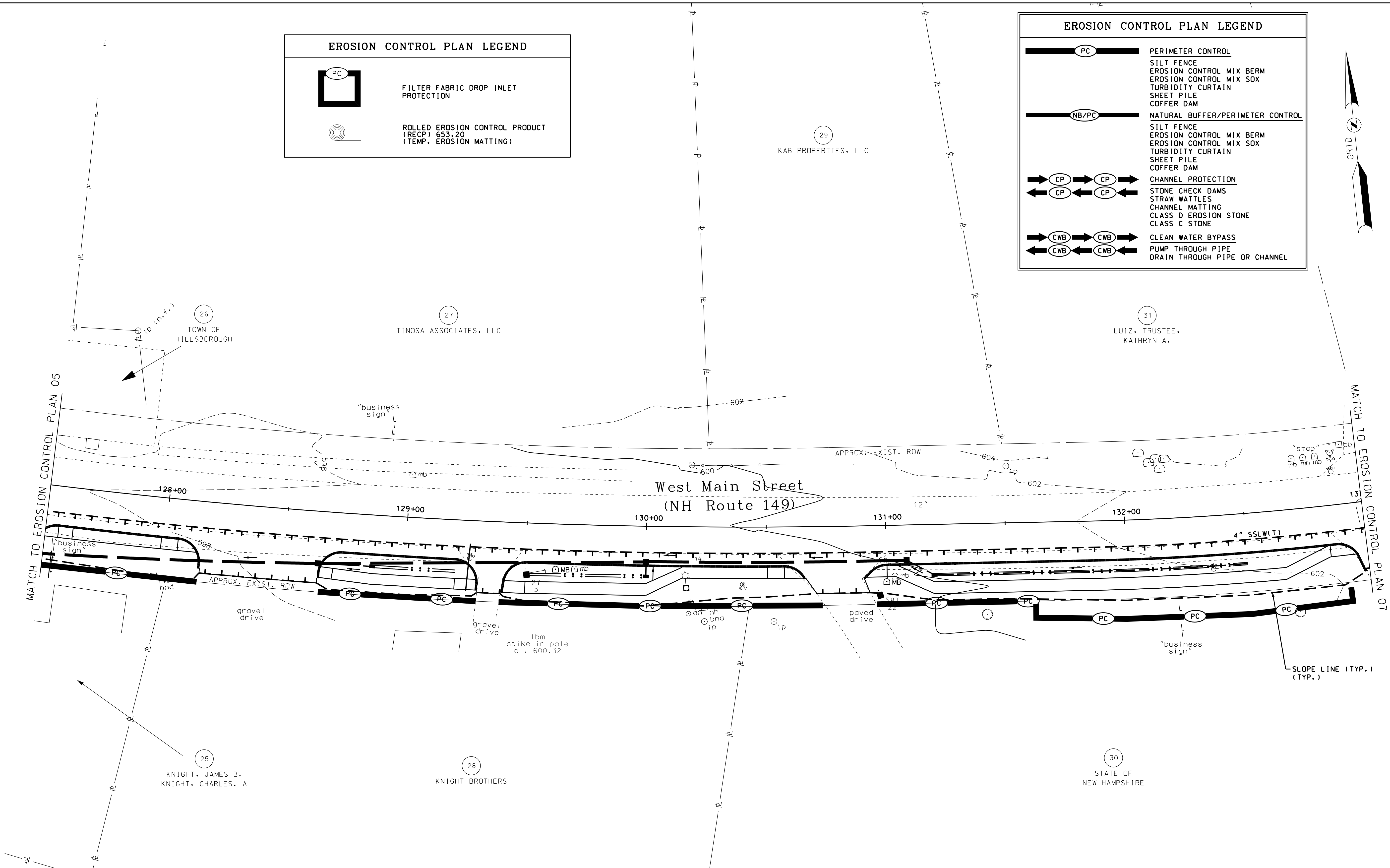
EROSION CONTROL PLAN LEGEND

PERIMETER CONTROL
SILT FENCE
EROSION CONTROL MIX BERM
EROSION CONTROL MIX SOX
TURBIDITY CURTAIN
SHEET PILE
COFFER DAM

NATURAL BUFFER/PERIMETER CONTROL
SILT FENCE
EROSION CONTROL MIX BERM
EROSION CONTROL MIX SOX
TURBIDITY CURTAIN
SHEET PILE
COFFER DAM

CHANNEL PROTECTION
STONE CHECK DAMS
STRAW WATTLES
CHANNEL MATTING
CLASS D EROSION STONE
CLASS C STONE

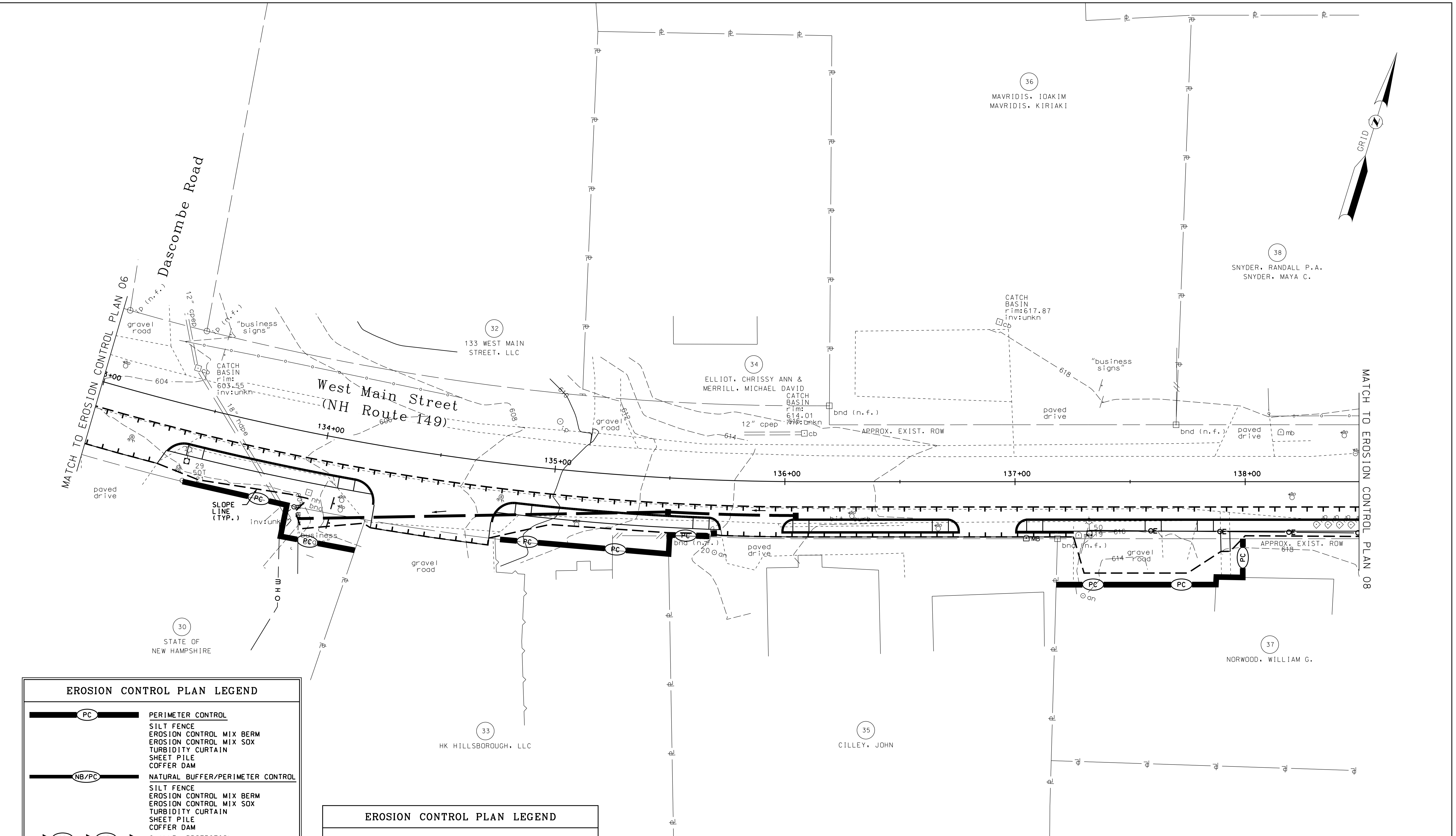
CLEAN WATER BYPASS
PUMP THROUGH PIPE
DRAIN THROUGH PIPE OR CHANNEL



D&K NO. 324277

TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
EROSION CONTROL PLAN 06			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368epsc	41368	97	112

SDR PROCESSED	DATE	DESCRIPTION
NEW DESIGN	DATE	DESCRIPTION
SHEET CHECKED	DATE	DESCRIPTION
ENGINEER	DATE	DESCRIPTION
AS BUILT DETAILS	DATE	DESCRIPTION



EROSION CONTROL PLAN LEGEND	
	PERIMETER CONTROL SILT FENCE EROSION CONTROL MIX BERM EROSION CONTROL MIX SOX TURBIDITY CURTAIN SHEET PILE COFFER DAM
	NATURAL BUFFER/PERIMETER CONTROL SILT FENCE EROSION CONTROL MIX BERM EROSION CONTROL MIX SOX TURBIDITY CURTAIN SHEET PILE COFFER DAM
	CHANNEL PROTECTION STONE CHECK DAMS STRAW WATTLES CHANNEL MATTING CLASS D EROSION STONE CLASS C STONE
	CLEAN WATER BYPASS PUMP THROUGH PIPE DRAIN THROUGH PIPE OR CHANNEL

EROSION CONTROL PLAN LEGEND	
	FILTER FABRIC DROP INLET PROTECTION
	ROLLED EROSION CONTROL PRODUCT (RECP) 653.20 (TEMP. EROSION MATTING)



D&K NO. 324277

DuBois & King

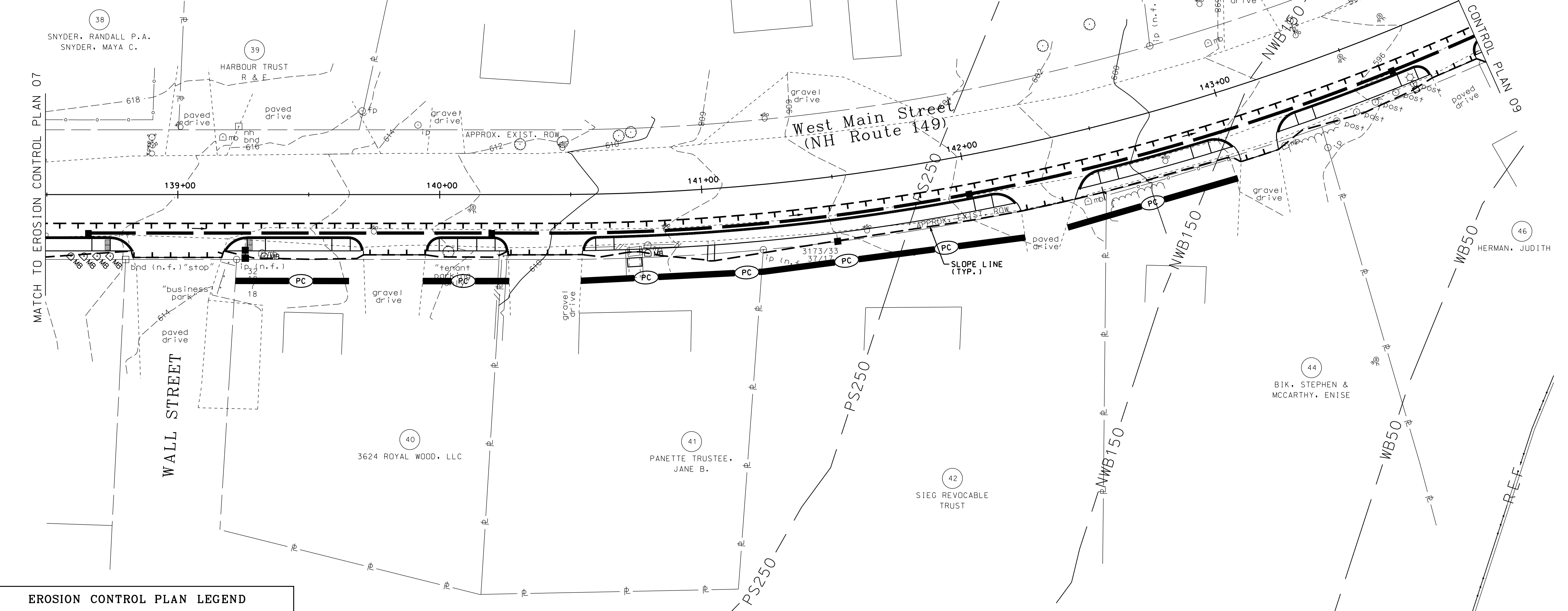
TOWN OF HILLSBOROUGH, NEW HAMPSHIRE

EROSION CONTROL PLAN 07

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368epsc	41368	98	112

SDR PROCESSED	DATE	---
NEW DESIGN	GMC/TAM	DATE 3/28/2023
SHEET CHECKED	BMB	DATE 3/28/2023
ENGINEER	BRIAN M. BRESLEND	NO. 15117
AS BUILT DETAILS	DATE	---

EROSION CONTROL PLAN LEGEND	
	PERIMETER CONTROL SILT FENCE EROSION CONTROL MIX BERM EROSION CONTROL MIX SOX TURBIDITY CURTAIN SHEET PILE COFFER DAM
	NATURAL BUFFER/PERIMETER CONTROL SILT FENCE EROSION CONTROL MIX BERM EROSION CONTROL MIX SOX TURBIDITY CURTAIN SHEET PILE COFFER DAM
	CHANNEL PROTECTION STONE CHECK DAMS STRAW WATTLES CHANNEL MATTING CLASS D EROSION STONE CLASS C STONE
	CLEAN WATER BYPASS PUMP THROUGH PIPE DRAIN THROUGH PIPE OR CHANNEL



EROSION CONTROL PLAN LEGEND	
	FILTER FABRIC DROP INLET PROTECTION
	ROLLED EROSION CONTROL PRODUCT (RECP) 653.20 (TEMP. EROSION MATTING)



TOWN OF HILLSBOROUGH, NEW HAMPSHIRE

D&K NO. 324277

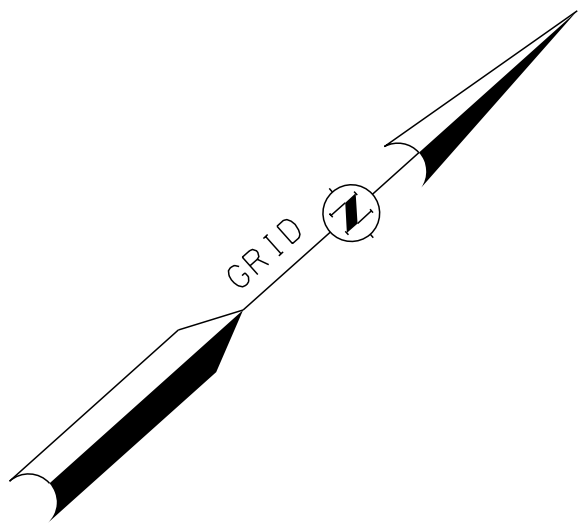
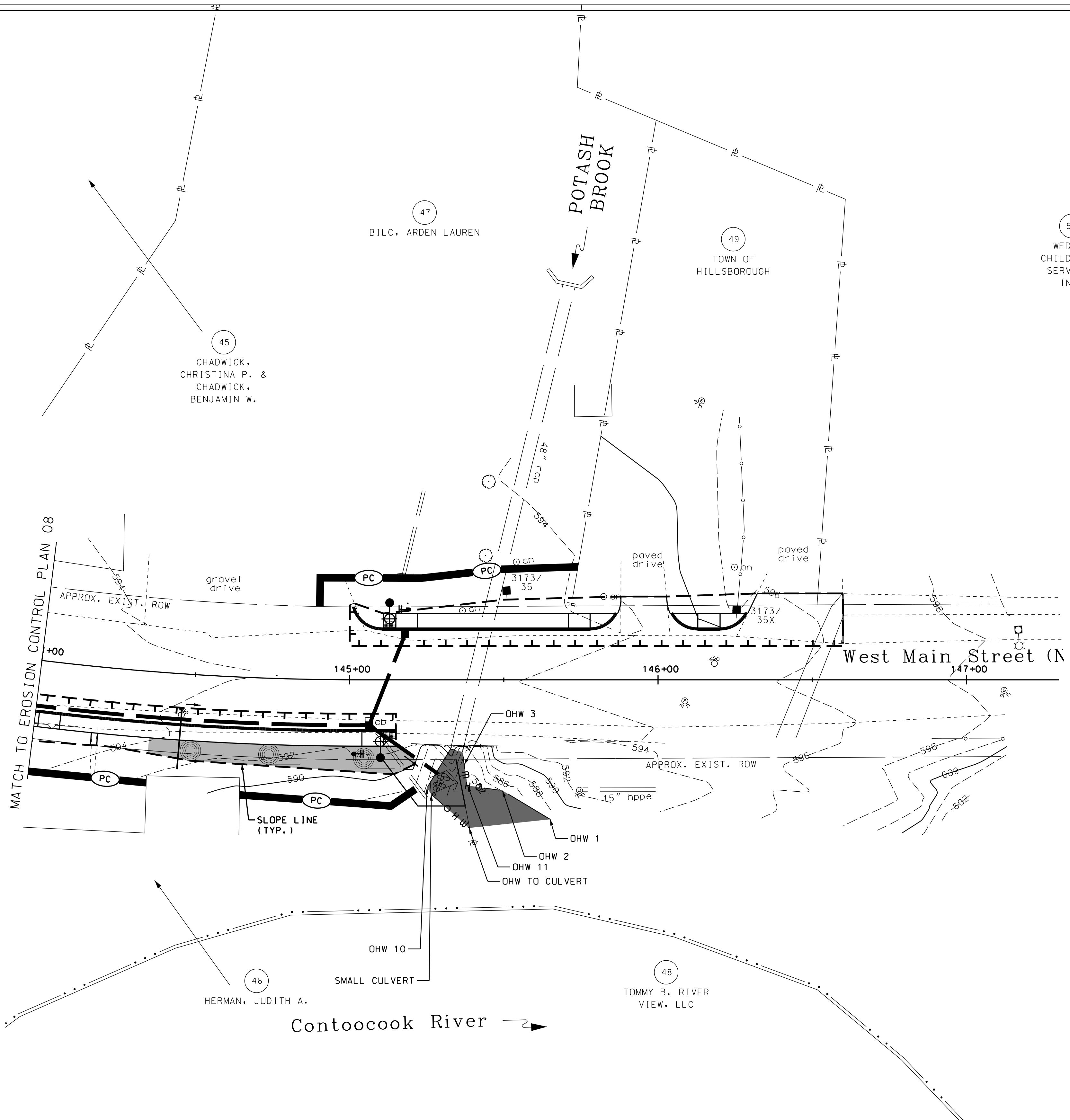
DuBois & King

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368epsc	41368	99	112

EROSION CONTROL PLAN 08

SDR PROCESSED	---	DATE	---
NEW DESIGN	GMC/TAM	DATE	3/28/2023
SHEET CHECKED	BMB	DATE	3/28/2023
ENGINEER	BRIAN M. BRESLEND	NO.	15117
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL	DESCRIPTION
STATION	
STATION	
DATE	
NUMBER	



EROSION CONTROL PLAN LEGEND	
	PERIMETER CONTROL SILT FENCE EROSION CONTROL MIX BERM EROSION CONTROL MIX SOX TURBIDITY CURTAIN SHEET PILE COFFER DAM
	NATURAL BUFFER/PERIMETER CONTROL SILT FENCE EROSION CONTROL MIX BERM EROSION CONTROL MIX SOX TURBIDITY CURTAIN SHEET PILE COFFER DAM
	CHANNEL PROTECTION STONE CHECK DAMS STRAW WATTLES CHANNEL MATTING CLASS D EROSION STONE CLASS C STONE
	CLEAN WATER BYPASS PUMP THROUGH PIPE DRAIN THROUGH PIPE OR CHANNEL

EROSION CONTROL PLAN LEGEND	
	FILTER FABRIC DROP INLET PROTECTION
	ROLLED EROSION CONTROL PRODUCT (RECP) 653, 20 (TEMP. EROSION MATTING)



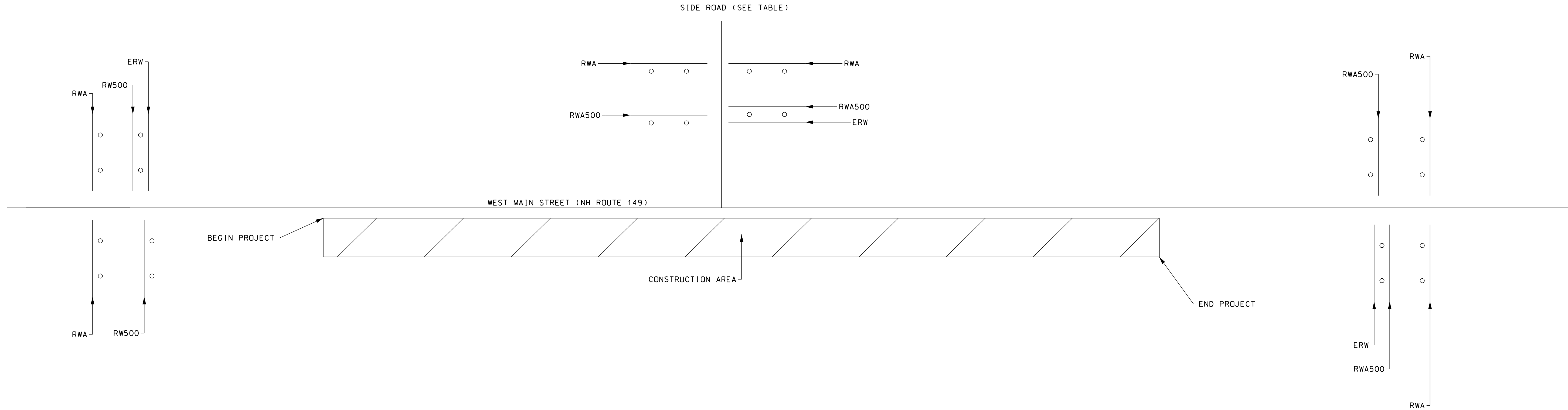
D&K NO. 324277



REVISION DATE
3/28/2023

TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
EROSION CONTROL PLAN 09			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368epsc	41368	100	112

CONSTRUCTION APPROACH SIGNING SCHEMATIC



	ROAD WORK AHEAD	ROAD WORK 500 FT	SIDE ROAD WORK AHEAD	SIDE ROAD WORK 500 FT	PCMS	END ROAD WORK	FLAGGER AHEAD
HILLSBOROUGH							
BEGIN PROJECT	2	2				1	
MUNICIPAL DRIVE	2	2				1	
DASCOMBE ROAD	2	2				1	
WALL STREET	2	2				1	
END PROJECT	2	2				1	

TOTALS	10	10				5	
--------	----	----	--	--	--	---	--

LEGEND

- SRWA = SIDE ROAD WORK AHEAD
- SRWA500 = SIDE ROAD WORK 500 FT
- RWA = ROAD WORK AHEAD
- RW500 = ROAD WORK 500 FT
- ERW = END ROAD WORK
- RWN = ROAD WORK NEXT XX MILES
- PCMS = PORTABLE CHANGEABLE MESSAGE SIGN
- FLG = FLAGGER AHEAD

SDR PROCESSED	DATE	3/28/2023
NEW DESIGN	DATE	3/28/2023
SHEET CHECKED	DATE	3/28/2023
AS BUILT DETAILS	DATE	



TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
CONSTRUCTION APPROACH SIGNING SHEET			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368cass	41368	101	112

REVISIONS AFTER PROPOSAL

STATION

STATION

DATE

NUMBER

DATE

DATE

SDR PROCESSED
NEW DESIGN
SHEET CHECKED
AS BUILT DETAILS

DESCRIPTION

STATION

STATION

DATE

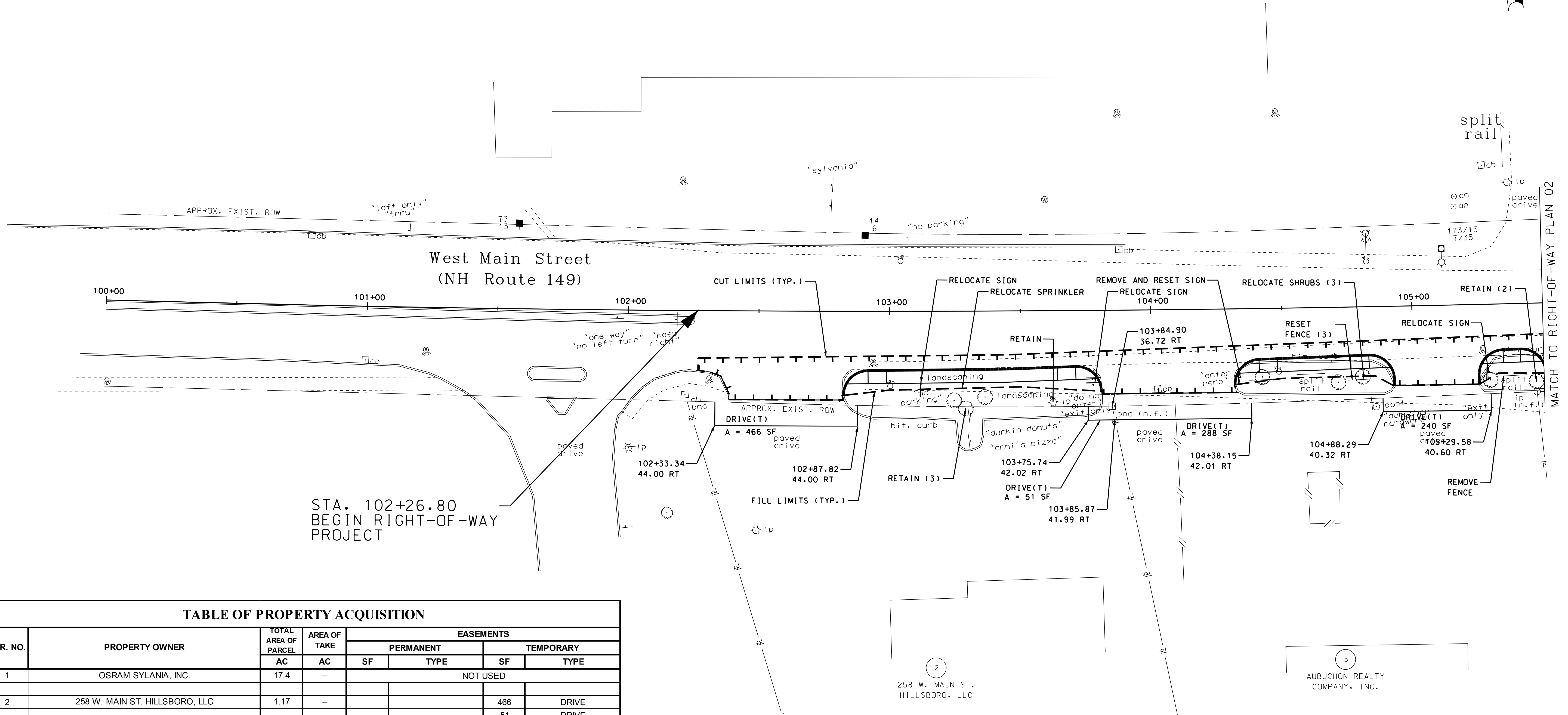
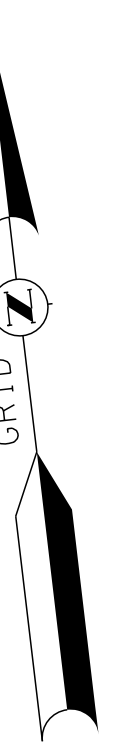
NUMBER

DATE

DATE

DESCRIPTION

1
OSRAM SYLANIA, INC.



STA. 102+26.80
BEGIN RIGHT-OF-WAY
PROJECT

TABLE OF PROPERTY ACQUISITION

PAR. NO.	PROPERTY OWNER	TOTAL AREA OF PARCEL AC	AREA OF TAKE AC	EASEMENTS			
				PERMANENT		TEMPORARY	
				SF	TYPE	SF	TYPE
1	OSRAM SYLANIA, INC.	17.4	-		NOT USED		
2	258 W. MAIN ST. HILLSBORO, LLC	1.17	-			466	DRIVE
						51	DRIVE
3	AUBUCHON REALTY COMPANY, INC.	0.93	-			288	DRIVE
						240	DRIVE

2
258 W. MAIN ST.
HILLSBORO, LLC

3
AUBUCHON REALTY
COMPANY, INC.



D&K NO. 324277



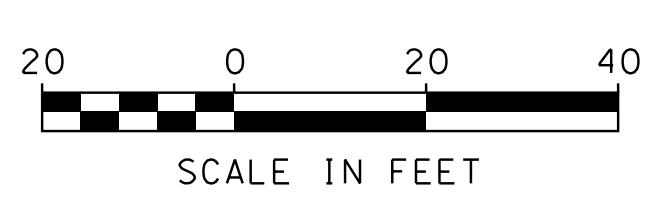
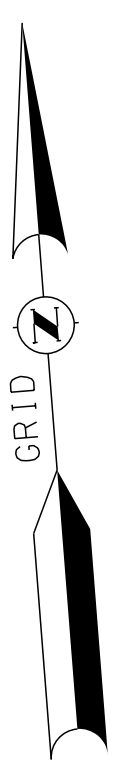
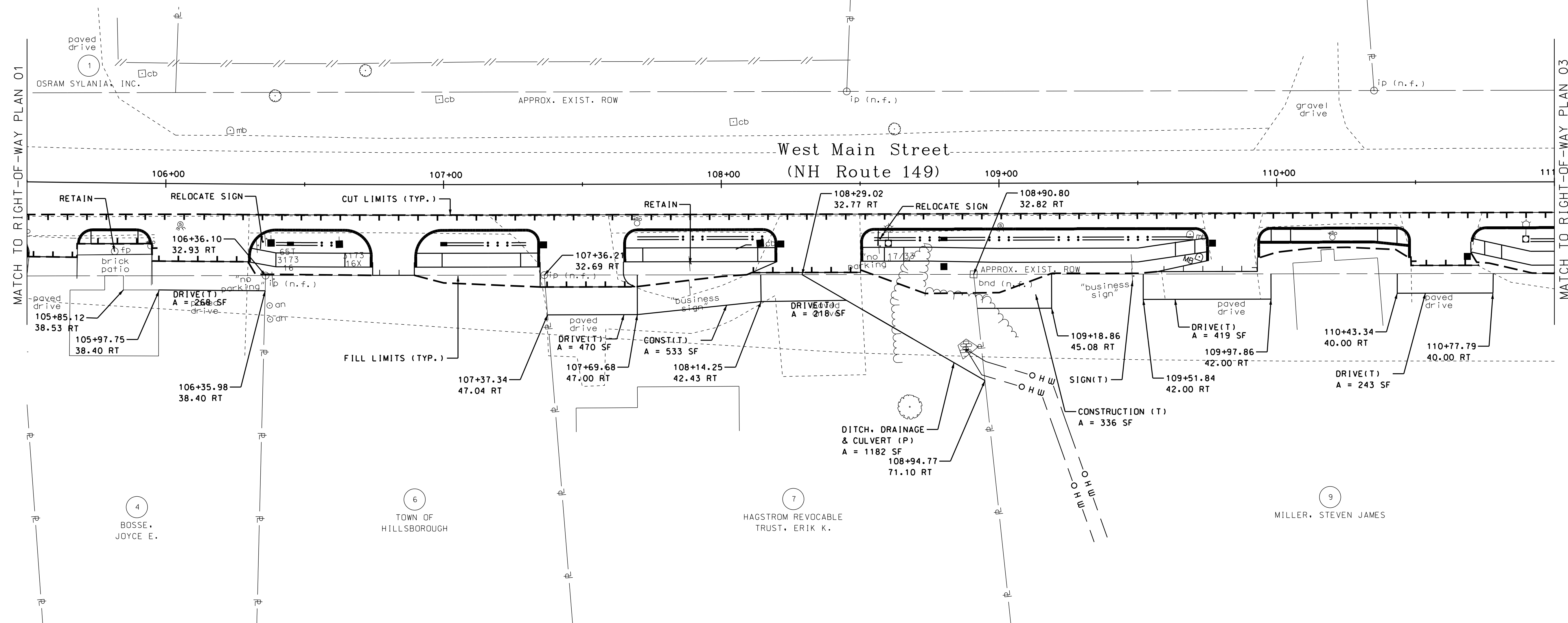
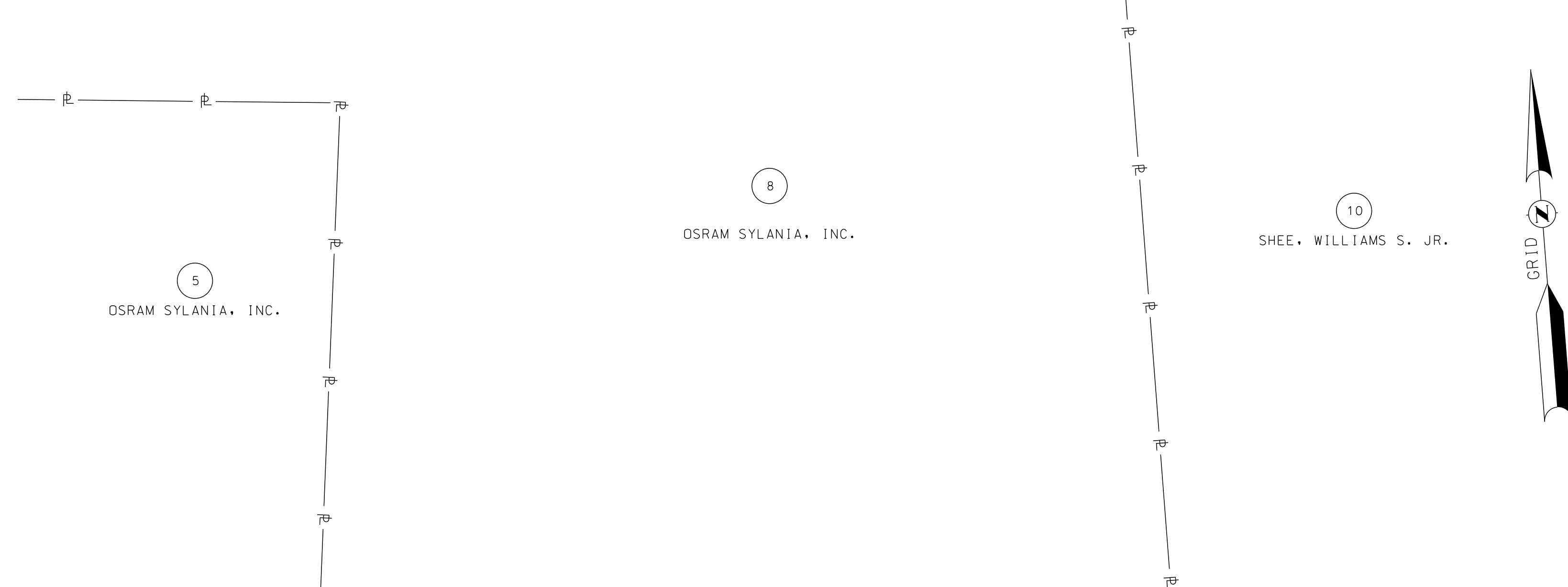
TOWN OF HILLSBOROUGH, NEW HAMPSHIRE

RIGHT-OF-WAY PLAN 01

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368rowplans	41368	102	112

SDR PROCESSED ---
 NEW DESIGN OJD DATE 3/28/2023
 SHEET CHECKED BMB DATE 3/28/2023
 AS BUILT DETAILS
 REVISIONS AFTER PROPOSAL
 STATION
 DATE
 NUMBER

TABLE OF PROPERTY ACQUISITION							
PAR. NO.	PROPERTY OWNER	TOTAL AREA OF PARCEL AC	AREA OF TAKE AC	EASEMENTS			
				PERMANENT		TEMPORARY	
			SF	TYPE	SF	TYPE	
4	BOSSE, JOYCE E.	0.4	--			268	DRIVE
5	OSRAM SYLANIA, INC.	0.9	--				NOT USED
6	TOWN OF HILLSBOROUGH	52.987	--				NOT USED
7	HAGSTROM REVOCABLE TRUST, ERIK	1.08	--			470	DRIVE
						533	CONSTRUCTION
						218	DRIVE
				1182	DITCH, DRAINAGE & CULVERT(P)		
8	OSRAM SYLANIA, INC.	3.38	--				NOT USED
9	MILLER, STEVEN JAMES	2.18	--			336	CONSTRUCTION
						--	SIGN
						419	DRIVE
						243	DRIVE
10	SHEE, WILLIAMS S. JR.	10.1	--				NOT USED



D&K NO. 324277



TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
RIGHT-OF-WAY PLAN 02			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368rowplans	41368	103	112

SDR PROCESSED	DATE	AS BUILT DETAILS
NEW DESIGN	DATE 3/28/2023	
SHEET CHECKED	DATE 3/28/2023	
BMB		

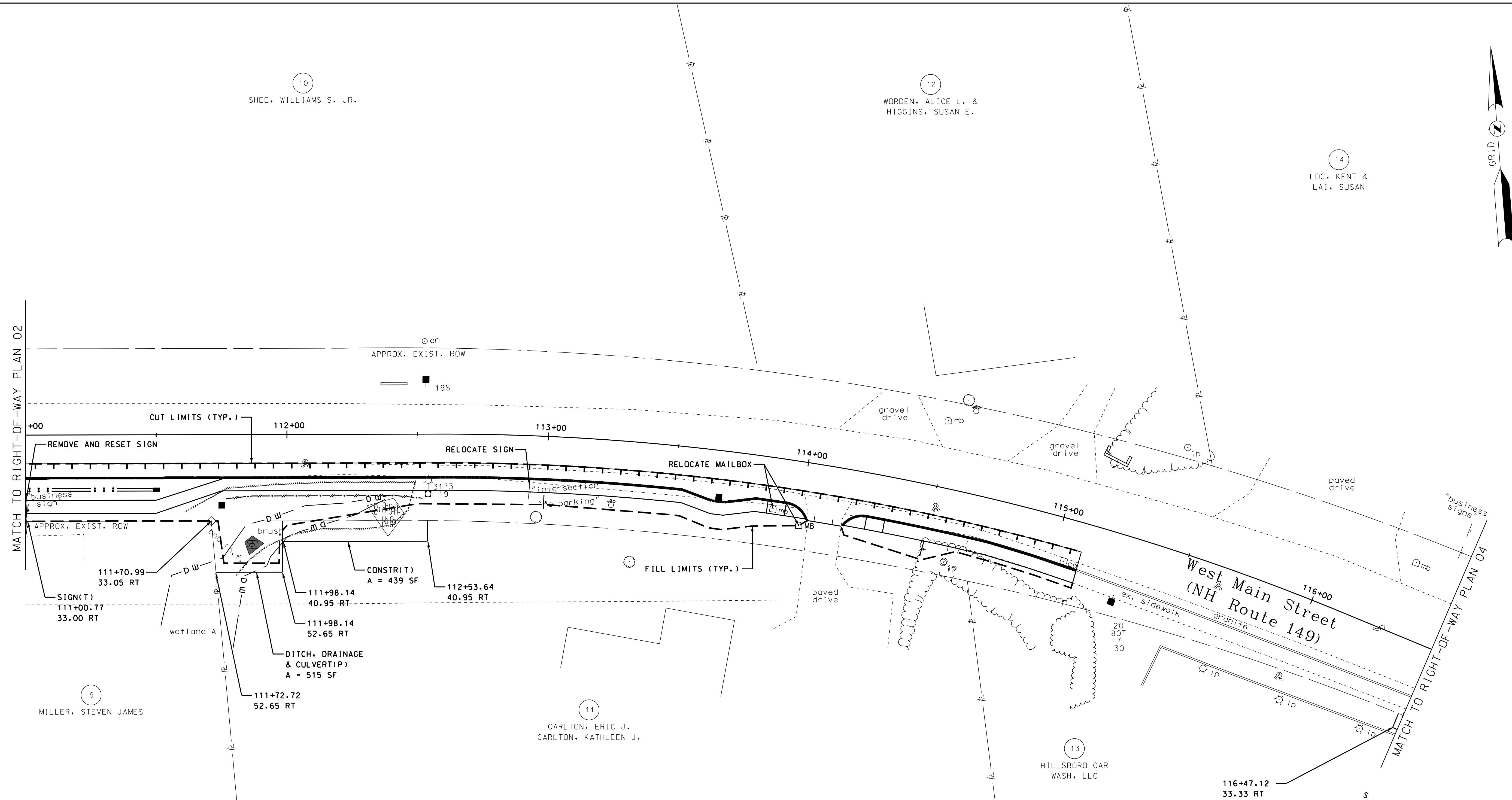
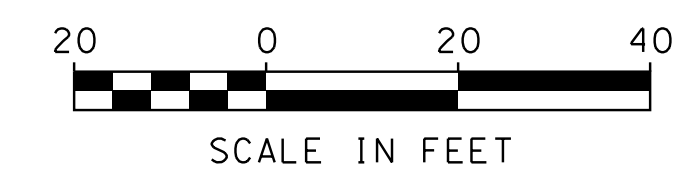


TABLE OF PROPERTY ACQUISITION

PAR. NO.	PROPERTY OWNER	TOTAL AREA OF PARCEL AC	AREA OF TAKE AC	EASEMENTS			
				PERMANENT		TEMPORARY	
				SF	TYPE	SF	TYPE
9	MILLER, STEVEN JAMES	2.18	--				SIGN
10	SHEE, WILLIAMS S. JR.	10.1	--				NOT USED
11	CARLTON, ERIC J., CARLTON, KATHLEEN J.	2.0	--	515	DITCH, DRAINAGE & CULVERT(P)	439	CONSTRUCTION
12	WORDEN, ALICE L. & HIGGINS, SUSAN E.	2.3	--				NOT USED
13	HILLSBORO CAR WASH, LLC	1.08	--			171	SLOPE
						1107	CONSTRUCTION
14	LOC, KENT & LAI, SUSAN	0.9	--				NOT USED



D&K NO. 324277



TOWN OF HILLSBOROUGH, NH			
RIGHT-OF-WAY PLAN 03			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368rowplans	41368	104	112

REVISIONS AFTER PROPOSAL

STATION

STATION

DATE

NUMBER

DATE

DATE

DATE

DATE

DATE

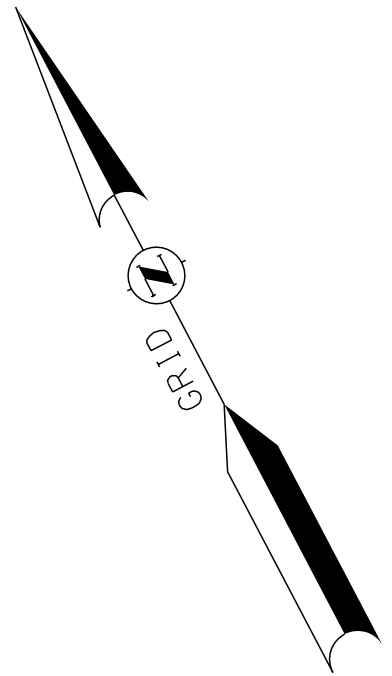
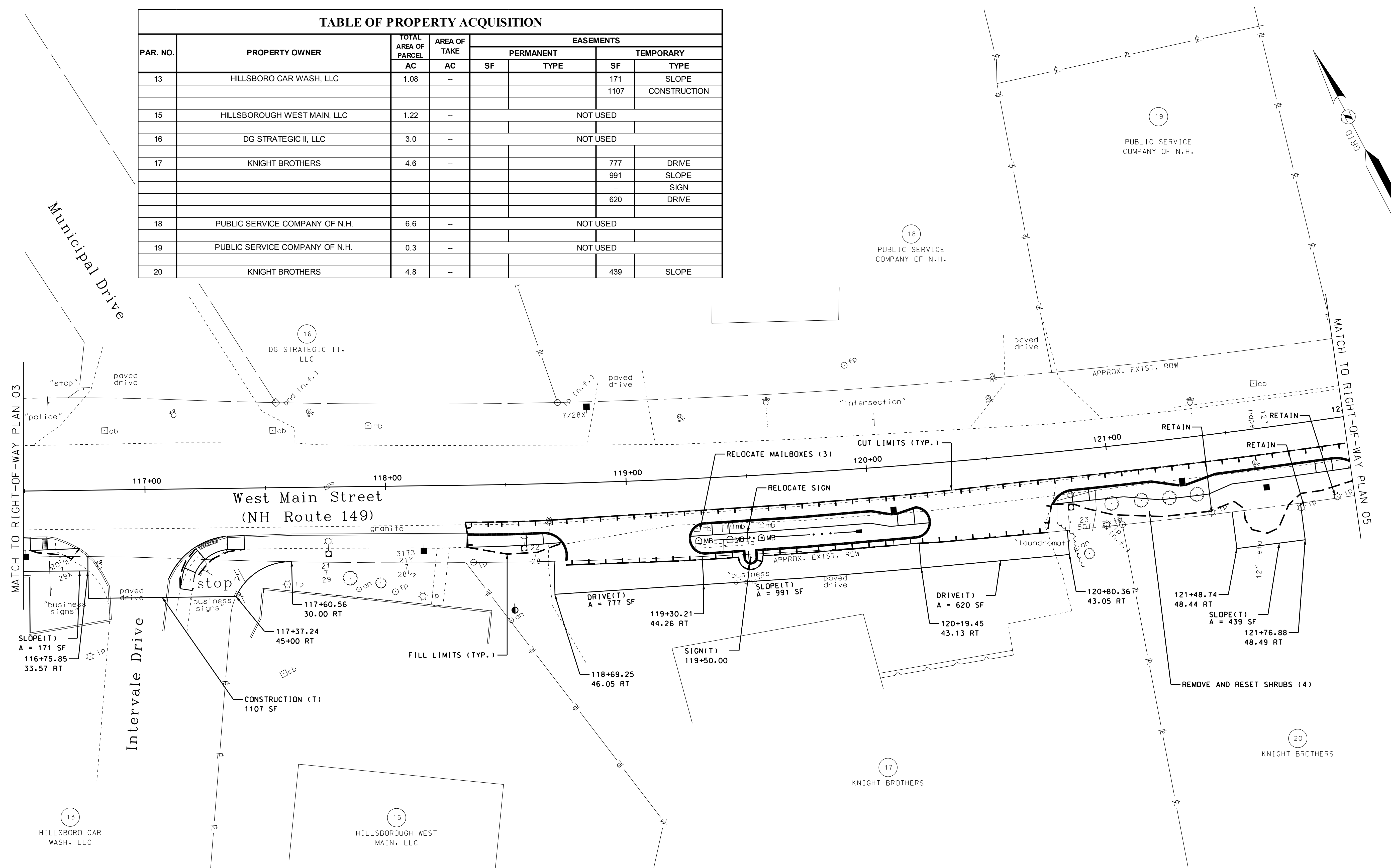
DATE

DATE

DATE

TABLE OF PROPERTY ACQUISITION

PAR. NO.	PROPERTY OWNER	TOTAL AREA OF PARCEL AC	AREA OF TAKE AC	EASEMENTS			
				PERMANENT		TEMPORARY	
				SF	TYPE	SF	TYPE
13	HILLSBORO CAR WASH, LLC	1.08	--			171	SLOPE
						1107	CONSTRUCTION
15	HILLSBOROUGH WEST MAIN, LLC	1.22	--	NOT USED			
16	DG STRATEGIC II, LLC	3.0	--	NOT USED			
17	KNIGHT BROTHERS	4.6	--			777	DRIVE
						991	SLOPE
						--	SIGN
						620	DRIVE
18	PUBLIC SERVICE COMPANY OF N.H.	6.6	--	NOT USED			
19	PUBLIC SERVICE COMPANY OF N.H.	0.3	--	NOT USED			
20	KNIGHT BROTHERS	4.8	--			439	SLOPE



TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
<i>RIGHT-OF-WAY PLAN 04</i>			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368rowplans	41368	105	112

MATCH TO RIGHT-OF-WAY PLAN 03

MATCH TO RIGHT-OF-WAY PLAN 05

Municipal Drive

Intervale Drive

West Main Street
(NH Route 149)

13
HILLSBORO CAR WASH, LLC

16
DG STRATEGIC II, LLC

15
HILLSBOROUGH WEST MAIN, LLC

18
PUBLIC SERVICE COMPANY OF N.H.

19
PUBLIC SERVICE COMPANY OF N.H.

17
KNIGHT BROTHERS

20
KNIGHT BROTHERS

SDR PROCESSED	DATE	AS BUILT DETAILS
NEW DESIGN	DATE 3/28/2023	
SHEET CHECKED	DATE 3/28/2023	
BMG		

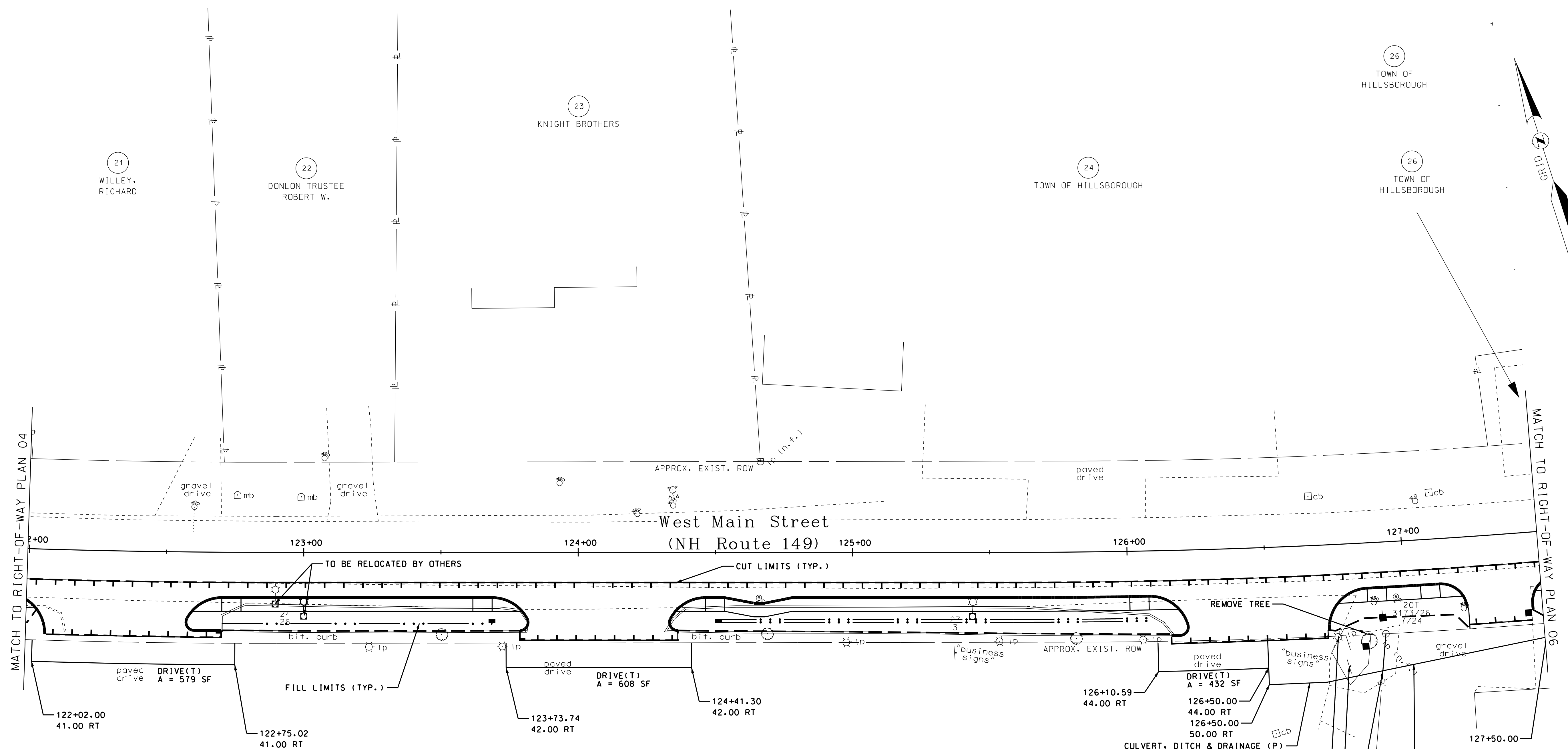
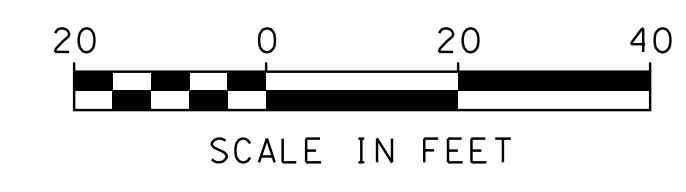
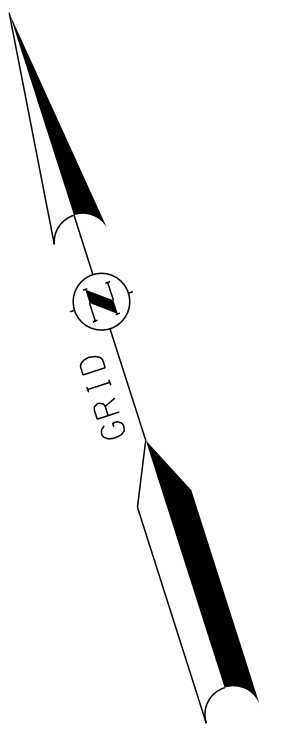


TABLE OF PROPERTY ACQUISITION

PAR. NO.	PROPERTY OWNER	TOTAL AREA OF PARCEL	AREA OF TAKE	EASEMENTS							
				PERMANENT		TEMPORARY					
				AC	AC	SF	TYPE	SF	TYPE		
20	KNIGHT BROTHERS	4.8	--			579	DRIVE	608	DRIVE	432	DRIVE
				670	DITCH, DRAINAGE & CULVERT(P)						
21	WILLEY, RICHARD	3.4	--		NOT USED						
22	DONLON TRUSTEE ROBERT W.	0.3	--		NOT USED						
23	KNIGHT BROTHERS	2.6	--		NOT USED						
24	TOWN OF HILLSBOROUGH	9.5	--		NOT USED						
25	KNIGHT, JAMES B. & KNIGHT, CHARLES. A.	0.2	-	535	DITCH, DRAINAGE & CULVERT(P)						
26	TOWN OF HILLSBOROUGH	0.05	--		NOT USED						



TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
RIGHT-OF-WAY PLAN 05			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368rowplans	41368	106	112



REVISIONS AFTER PROPOSAL

STATION

STATION

DATE

NUMBER

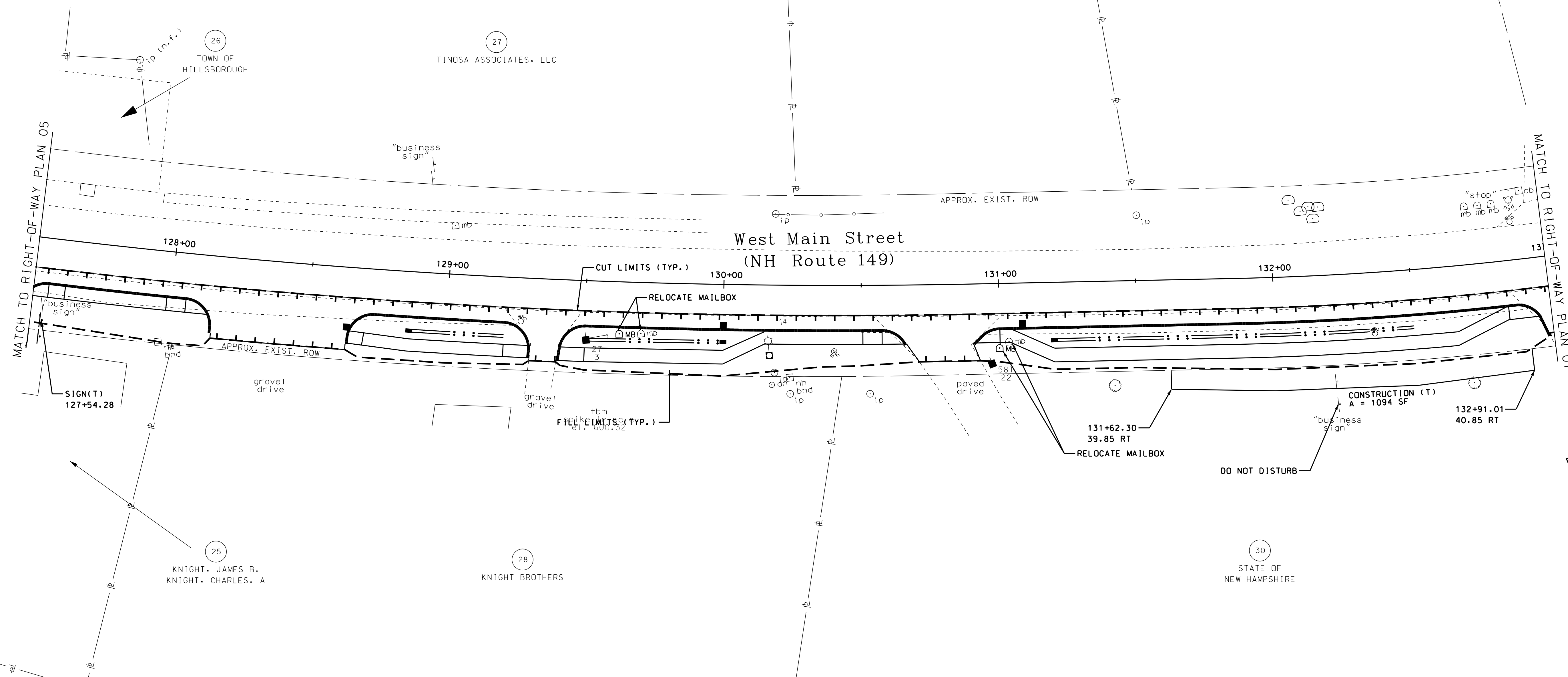
DATE 3/28/2023

DATE 3/28/2023

SDR PROCESSED
NEW DESIGN
SHEET CHECKED
AS BUILT DETAILS

DESCRIPTION

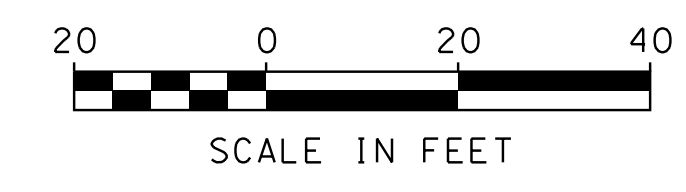
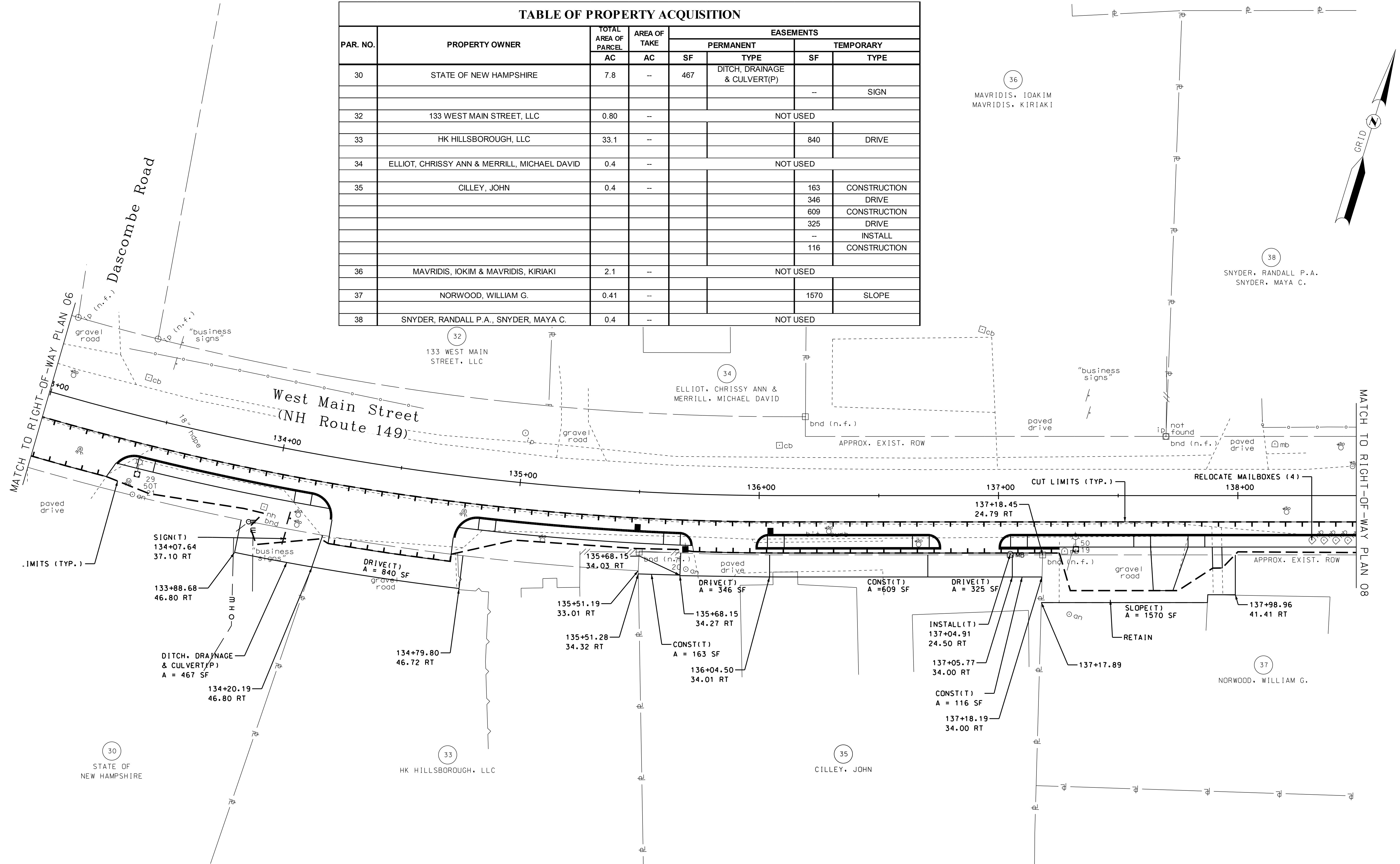
PAR. NO.	PROPERTY OWNER	TOTAL AREA OF PARCEL AC	AREA OF TAKE AC	EASEMENTS			
				PERMANENT		TEMPORARY	
				SF	TYPE	SF	TYPE
25	KNIGHT, JAMES B. & KNIGHT, CHARLES. A.	0.2	--			--	SIGN
26	TOWN OF HILLSBOROUGH	0.05	--		NOT USED		
27	TINOSA ASSOCIATES, LLC	1.5	--		NOT USED		
28	KNIGHT BROTHERS	2.2	--		NOT USED		
29	KAB PROPERTIES, LLC	0.9	--		NOT USED		
30	STATE OF NEW HAMPSHIRE	7.8	--			1094	CONSTRUCTION
31	LUIZ, TRUSTEE, KATHRYN A.	0.90	--		NOT USED		



TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
RIGHT-OF-WAY PLAN 06			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368rowplans	41368	107	112

SDR PROCESSED	DATE	DATE	DATE	DATE
NEW DESIGN	OTD	3/28/2023	3/28/2023	
SHEET CHECKED	BMB			
AS BUILT DETAILS				

PAR. NO.	PROPERTY OWNER	TOTAL AREA OF PARCEL AC	AREA OF TAKE AC	EASEMENTS			
				PERMANENT		TEMPORARY	
				SF	TYPE	SF	TYPE
30	STATE OF NEW HAMPSHIRE	7.8	--	467	DITCH, DRAINAGE & CULVERT(P)	--	SIGN
32	133 WEST MAIN STREET, LLC	0.80	--				NOT USED
33	HK HILLSBOROUGH, LLC	33.1	--			840	DRIVE
34	ELLIOT, CHRISSY ANN & MERRILL, MICHAEL DAVID	0.4	--				NOT USED
35	CILLEY, JOHN	0.4	--			163	CONSTRUCTION
						346	DRIVE
						609	CONSTRUCTION
						325	DRIVE
						--	INSTALL
						116	CONSTRUCTION
36	MAVRIDIS, IOKIM & MAVRIDIS, KIRIAKI	2.1	--				NOT USED
37	NORWOOD, WILLIAM G.	0.41	--			1570	SLOPE
38	SNYDER, RANDALL P.A., SNYDER, MAYA C.	0.4	--				NOT USED



D&K NO. 324277



TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
RIGHT-OF-WAY PLAN 07			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368rowplans	41368	108	112

REVISIONS AFTER PROPOSAL

STATION

STATION

DATE

NUMBER

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

TABLE OF PROPERTY ACQUISITION

PAR. NO.	PROPERTY OWNER	TOTAL AREA OF PARCEL AC	AREA OF TAKE AC	EASEMENTS			
				PERMANENT		TEMPORARY	
				SF	TYPE	SF	TYPE
38	SNYDER, RANDALL P.A., SNYDER, MAYA C.	0.4	--	NOT USED			
39	HARBOUR TRUST R & E	3.0	--	NOT USED			
40	3624 ROYAL WOOD, LLC	0.3	--			412	CONSTRUCTION
						287	DRIVE
						189	CONSTRUCTION
						--	INSTALL (TREE)
41	PANETTE TRUSTEE, JANE B.	0.3	--			297	DRIVE
						707	SLOPE
						--	INSTALL (FENCE)
						--	INSTALL (ARBOR)
						--	INSTALL (FENCE)
42	SIEG REVOCABLE TRUST	2.6	--			929	SLOPE
						316	DRIVE
						62	CONSTRUCTION
							SIGN

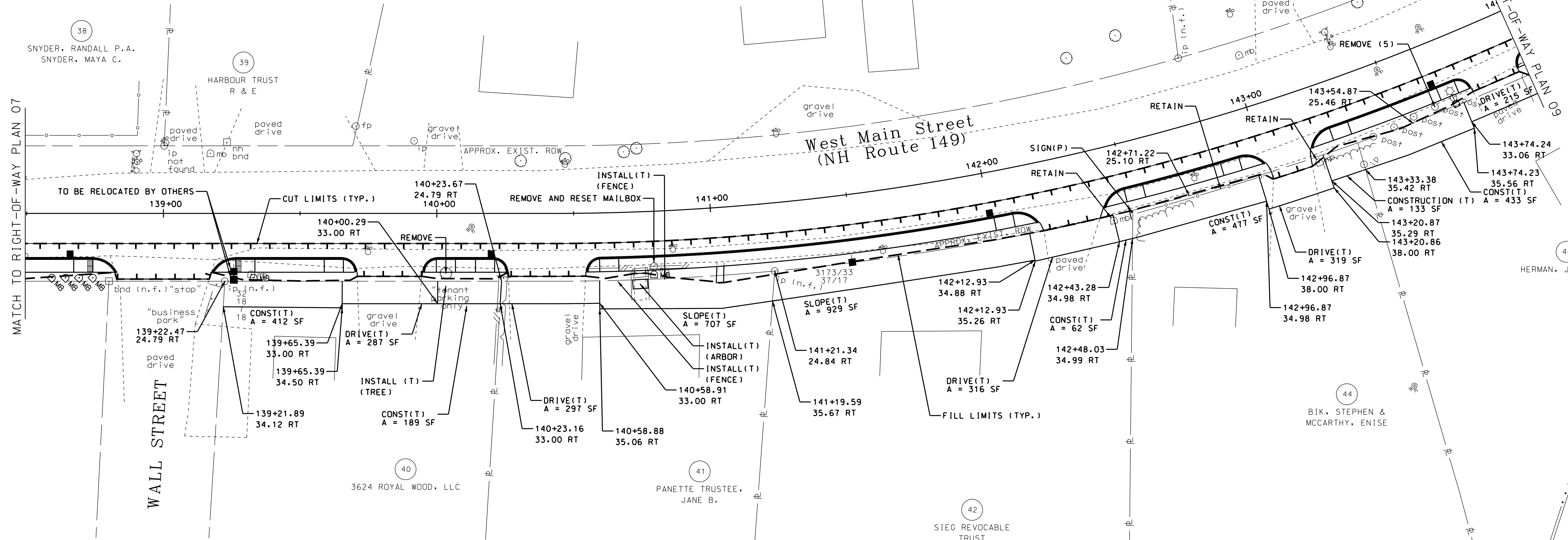


TABLE OF PROPERTY ACQUISITION

PAR. NO.	PROPERTY OWNER	TOTAL AREA OF PARCEL AC	AREA OF TAKE AC	EASEMENTS			
				PERMANENT		TEMPORARY	
				SF	TYPE	SF	TYPE
43	CHADWICK REVOCABLE FAMILY TRUST	1.8	--	NOT USED			
44	BIK, STEPHEN & MCCARTHY, DENISE	0.4	--			477	CONSTRUCTION
						319	DRIVE
						133	CONSTRUCTION
45	CHADWICK, CHRISTINA P. & CHADWICK, BENJAMIN W.	0.7	--	NOT USED			
46	HERMAN, JUDITH A.	0.3	--			433	CONSTRUCTION
						215	DRIVE



D&K NO. 324277



TOWN OF HILLSBOROUGH, NEW HAMPSHIRE

RIGHT-OF-WAY PLAN 08

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368rowplans	41368	109	112

SDR PROCESSED	DATE						
	NEW DESIGN	BMB					
	SHEET CHECKED	CMB					
	AS BUILT DETAILS						
	NUMBER						
	DATE						
	STATION						
	STATION						
	DESCRIPTION						

TRAFFIC CONTROL NOTES

1. THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND LATEST REVISIONS SHALL BE THE STANDARD FOR ALL TRAFFIC CONTROL DEVICES. EXISTING SIGNS AND MARKINGS SHALL BE VALID UNTIL SUCH TIME AS THEY ARE REPLACED OR RECONSTRUCTED. WHEN NEW TRAFFIC DEVICES ARE ERRECTED OR PLACED, OR EXISTING TRAFFIC CONTROL DEVICES ARE REPLACED OR REPAIRED, THE EQUIPMENT, DESIGN, METHOD OF INSTALLATION, PLACEMENT OR REPAIR SHALL CONFORM TO SUCH STANDARDS.
2. CONSTRUCTION ZONE SIGN LAYOUT SHALL BE IN ACCORDANCE WITH SECTION 6 OF THE CURRENT EDITION OF THE MUTCD AND IT'S LATEST REVISIONS AND CURRENT NHDOT STANDARDS.
3. THE CONTRACTOR SHALL SUBMIT A SITE SPECIFIC TRAFFIC CONTROL PLAN FOR APPROVAL BY THE ENGINEER A MINIMUM OF 14 DAYS PRIOR TO THE START OF CONSTRUCTION. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 619.1 MAINTENANCE OF TRAFFIC. THE TRAFFIC CONTROL PLAN SHALL BE IN COMPLIANCE WITH NHDOT STANDARDS AND THE LATEST EDITION OF THE MUTCD. WHERE CONFLICTS EXISTS, THE MUTCD SHALL GOVERN.
4. THE BID PRICE FOR ITEM 619.1 MAINTENANCE OF TRAFFIC SHALL INCLUDE ALL OF THE FOLLOWING, AS NEEDED: APPROACH, ON AND OFF PROJECT CONSTRUCTION SIGNING, PORTABLE FLASHING ARROW BOARDS, BARRIERS, BARRELS, CONES, BARRICADES, TEMPORARY REGULATORY AND WARNING SIGNS, AND POSTS AS DETAILED IN THE NHDOT STANDARDS. ALL ADJUSTING RELOCATING AND REMOVING THESE DEVICES AS DIRECTED BY THE ENGINEER SHALL ALSO BE INCLUDED.
5. CONSTRUCTION SIGNS SHALL BE IN NEW OR LIKE NEW CONDITION.
6. NO CONSTRUCTION SIGNS SHALL BE INSTALLED AS TO INTERFERE OR OBSTRUCT THE VIEW OF EXISTING TRAFFIC CONTROL DEVICES, STOPPING SIGHT DISTANCE AND CORNER SIGHT DISTANCE FROM DRIVES AND CITY STREETS. ALL VEGETATION THAT INTERFERES WITH THE VISIBILITY OF THE SIGNS SHALL BE REMOVED. THE COST ASSOCIATED WITH REMOVING VEGETATION SHALL BE PAID UNDER ITEM 619.1 MAINTENANCE OF TRAFFIC.
7. DIAMOND SHAPED SIGNS SHALL BE 48" X 48" WITH BLACK TEXT AND BORDER ON A RETROREFLECTIVE FLUORESCENT ORANGE BACKGROUND.
8. THE CONTRACTOR SHALL PROVIDE ACCESS THROUGH THE WORK ZONE FOR EMERGENCY VEHICLES AT ALL TIMES OR COORDINATE EMERGENCY ROUTES PRIOR TO THE START OF CONSTRUCTION. THE COST ASSOCIATED WITH THIS WORK SHALL BE PAID UNDER ITEM 619.1 MAINTENANCE OF TRAFFIC.
9. BARRELS AND CONES SHALL BE USED TO CLEARLY DEFINE THE TRAVEL SPACE AND PROVIDE SEPERATION FROM THE WORK SPACE ALONG ITS ENTIRE LENGTH.

PEDESTRIAN TRAFFIC CONTROL NOTES

1. THE CONTRACTOR SHALL PROVIDE A TEMPORAY PEDESTRIAN ACCESS ROUTE (TPAR) FOR REVIEW AND WRITTEN APPROVAL BY THE ENGINEER A MINIMUM OF THREE WEEKS BEFORE SUCH PLAN IS IMPLEMENTED. THIS PLAN SHALL DETAIL THE CONSTRUCTION PHASING AND SHEDULE AND THE SPECIFIC METHODS OF MAINTAINING SAFE PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION AREA. THIS PLAN SHALL PROVIDE THE LOCATION AND DETAILS OF TEMPORARY CONSTRUCTION SIGNING, MARKINGS, BARRICADES, CHANNELIZATION DEVICES, TPARS AND METHODS TO MAINTAIN ACCESS TO ADJACENT PROPERTIES, BUSINESSES, RESIDENTS, ETC. THE COST ASSOCIATED WITH THIS WORK SHALL BE PAID UNDER ITEM 619.1 MAINTENANCE OF TRAFFIC.
2. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN THROUGH MOVEMENTS FROM ONE END OF THE CONSTRUCTION AREA TO THE OTHER, ON AT LEAST ONE SIDE THE ROAD DURING CONSTRUCTION. ANY SIDEWALK CLOSURES SHALL MEET THE REQUIREMENTS OF THE MUTCD, PART 6.
3. IF SIDEWALKS ARE CLOSED, A TPAR SHALL BE PROVIDED ON THE SAME SIDE OF THE ROAD AS THE CLOSED SIDEWALK, IF POSSIBLE. SIGNS AND BARRICADES SHALL BE USED TO PROVIDE ADVANCE NOTICE OF THE CLOSURE AND THE ROUTE OF ANY PEDESTRIAN DETOURS. THE TPAR SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4 FEET. IF THE TPAR IS LESS THAN 5 FEET IN WIDTH, A 5 FOOT BY 5 FOOT PASSING SPACE MUST BE PROVIDED AT LEAST EVERY 200 FEET. THE SURFACE OF THE TPAR SHALL BE FIRM, STABLE AND SLIP-RESISTANT AND CONTINUOUS WITH A MINIMUM 80 INCH OVERHEAD CLEARANCE FOR THE LENGTH OF THE TPAR. THE TPAR SHALL MAINTAIN THE SAME LEVEL OF ACCESSIBILITY AND DETECTABILITY AS THE FACILITY THAT IS BEING CLOSED. THE TPAR SHALL NOT LEAD PEDESTRIANS INTO CONFLICTS WITH VEHICLES, EQUIPMENT, OR CONSTRUCTION OPERATIONS.
4. WHEN TEMPORARY CROSSWALKS ARE UTILIZED FOR THE TPAR, TEMPORARY DETECTABLE WARNINGS SHALL BE PLACED AT EACH END OF THE TEMPORARY CROSSWALKS. THE TEMPORARY CROSSWALK SHALL BE DELINEATED WITH TEMPORARY PAVEMENT MARKINGS OR TAPE. THE MARKINGS SHALL BE PARALLEL 12-INCH WHITE WHITE LINES PLACED 7 FEET ON CENTER APART.
5. INDIVIDUAL CHANNELIZATION DEVICES, TAPE OR ROPE USED TO CONNECT INDIVIDUAL DEVICES AND OTHER DISCONTINUOUS BARRIERS AND DEVICES ARE NOT DETECTABLE BY PERSONS WITH VISUAL DISABILITIES. THESE MEASURES DO NOT PROVIDE ACCEPTABLE PATH GUIDANCE ON TEMPOARY OR RE-ALIGNED SIDEWALKS OR OTHER PEDESTRIAN FACILITIES. PEDESTRIAN CHANNELIZATION DEVICES SHALL INCLUDE A CONTINUOUS DETECTABLE BOTTOM AND TOP EDGE THROUGHOUT THE LENGTH OF THE FACILITY SUCH THAT IT CAN BE FOLLOWED BY PEDESTRIANS USING LONG CANES FOR GUIDANCE.
6. CHANNELIZATION DEVICES ON BOTH SIDES OF THE TPAR SHALL INCLUDE A CONTINUOUS SOLID TOP AND BOTTOM RAILS. THE TOP EDGE OF THE TOP RAIL SHALL BE BETWEEN 32 INCHES AND 38 INCHES ABOVE THE GROUND LEVEL. THE BOTTOM RAIL SHALL BE AT LEAST 6 INCHES WIDE, WITH THE BOTTOM EDGE OF THE BOTTOM RAIL SURFACE NO HIGHER THAN 2 INCHES ABOVE THE GROUND.
7. IF THE TPAR IS ADJACENT TO MOVING TRAFFIC, CONSTRUCTION OPERATIONS/EQUIPMENT, OR DROPOFFS, THEN CRASHWORTHY CHANNELIZING DEVICES THAT MEET THE REQUIREMENTS OF THE MUTCD SHALL BE USED.
8. THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.
9. PROVISIONS OF THE TPAR AND ITS ELEMENTS, INCLUDING BUT NOT LIMITED TO SIGNS, CHANNELIZING DEVICES, BARRICADES, TEMPORARY CURB RAMPS, TEMPOARY PAVEMENT MARKINGS, TEMPORARY BITUMINOUS PAVEMENT, SUBBASE OF GRAVEL, AND OTHER TRAFFIC CONTROL DEVICES IS TO BE PAID FOR INCIDENTAL TO ITEM 619.1 MAINTENANCE OF TRAFFIC.

TOWN OF HILLSBOROUGH, NEW HAMPSHIRE

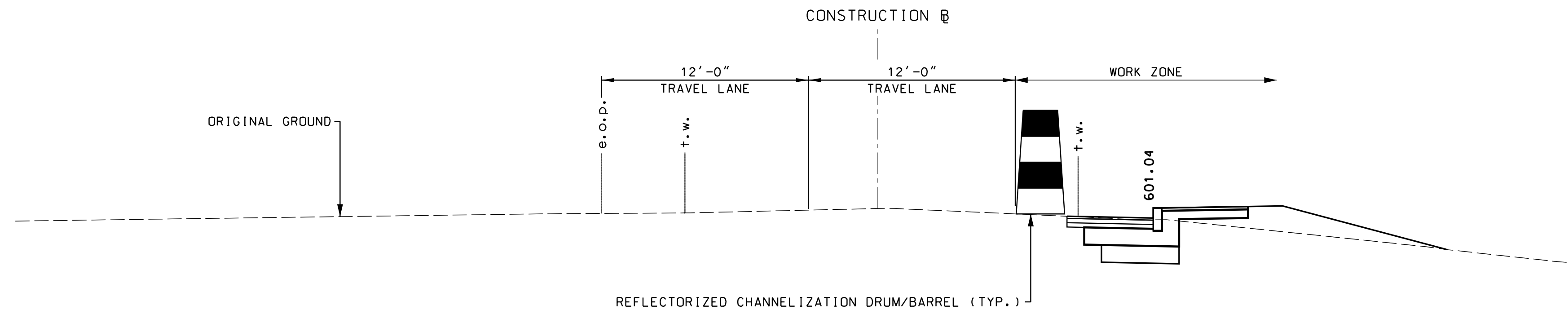
TRAFFIC CONTROL NOTES

D&K NO. 324277

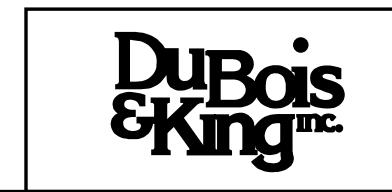


DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368+notes	41368	111	112

SDR PROCESSED	DATE	NUMBER	STATION	DESCRIPTION
NEW DESIGN	DATE			
SHEET CHECKED	DATE			
AS BUILT DETAILS	DATE			



WEST MAIN STREET
 TRAFFIC CONTROL TYPICAL SECTION
 NOT TO SCALE



TOWN OF HILLSBOROUGH, NEW HAMPSHIRE			
TRAFFIC CONTROL SECTION			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
41368trf+yp	41366	112	112