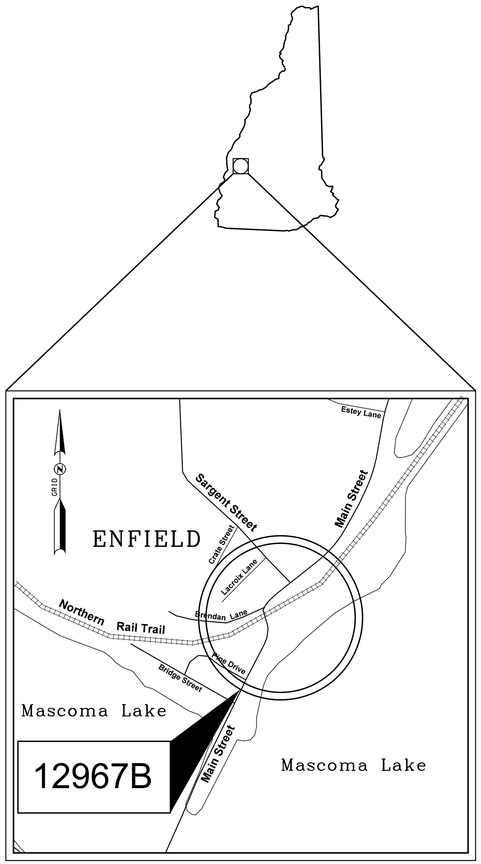
STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLANS
FEDERAL AID PROJECT

X-A001(087)
N.H. PROJECT NO. 12967B
Main Street & Rail Trail Crossing

DESIGN DATA

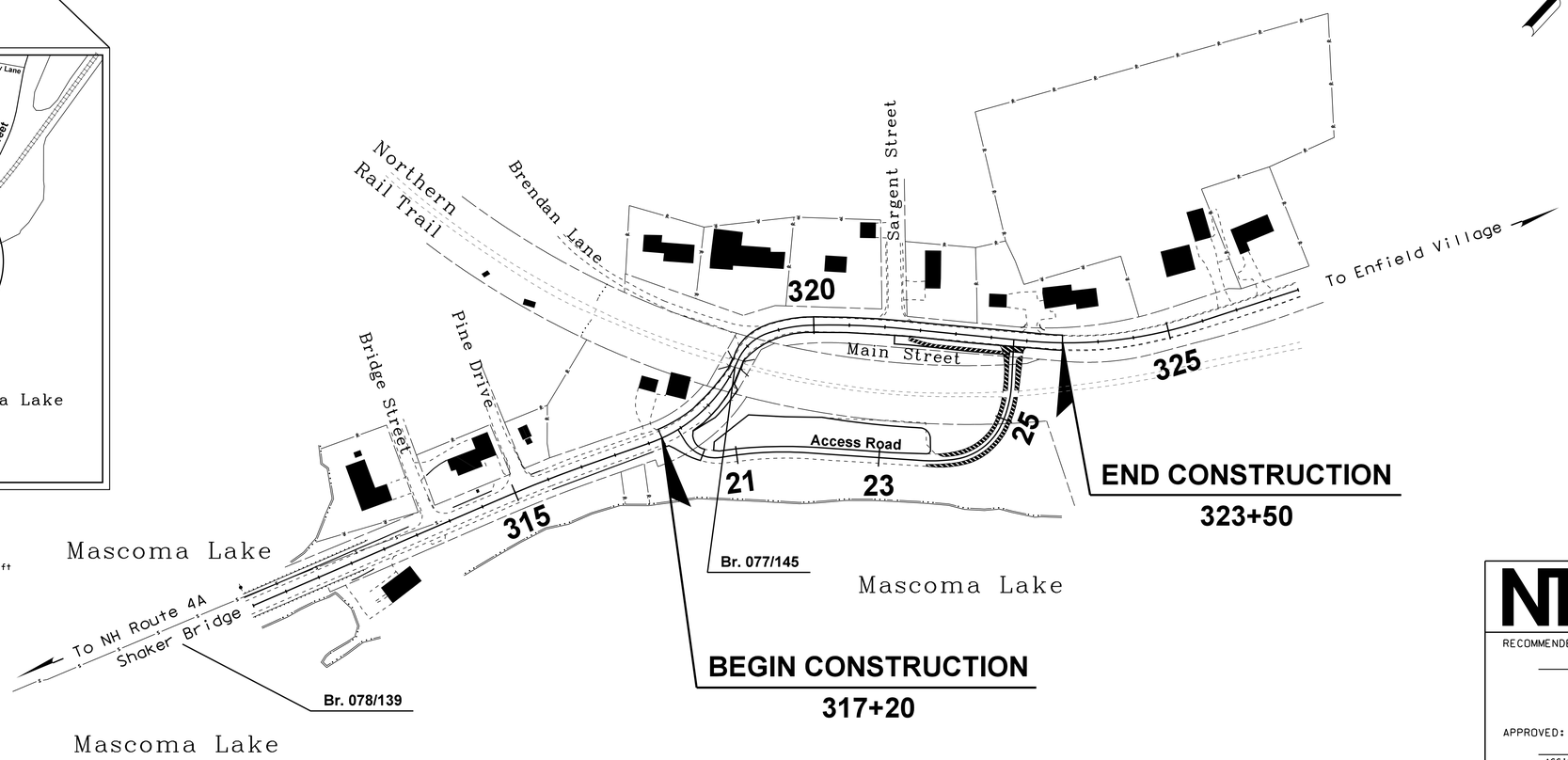
AVERAGE DAILY TRAFFIC 20 15	1700
AVERAGE DAILY TRAFFIC 20 35	2500
PERCENT OF TRUCKS	<1%
DESIGN SPEED	30 mph
LENGTH OF PROJECT	630'



LOCATION MAP

400 200 0 400 800 ft

GRAPHIC SCALE



TOWN OF ENFIELD

COUNTY OF GRAFTON

SCALE: 1" = 400'

NHDOT THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

RECOMMENDED FOR APPROVAL:

DIRECTOR OF PROJECT DEVELOPMENT — DATE

APPROVED:

ASSISTANT COMMISSIONER AND CHIEF ENGINEER — DATE

U. S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR — DATE

FEDERAL PROJECT NO.	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
X-A001(087)	12967B	1	27

DRAWN BY D. HOLMES DATE 9/2016

CHECKED BY CAC DATE 12/2016

INDEX OF SHEETS

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1	TITLE PAGE
2	INDEX OF SHEETS AND GENERAL NOTES
3,4	STANDARD SYMBOLS
5	TYPICAL SECTIONS OF IMPROVEMENT
6,7	SUMMARY OF QUANTITIES
	SPECIAL USE PLANS
8-10	DETAILS
11,12	SIGN TEXT LAYOUT
	ROADWAY PLANS
13	GENERAL PLAN
14,15	PROFILES
16	ALIGNMENT LAYOUT
17	GRADING PLAN
18	LANDSCAPING PLAN
19	SIGNING AND MARKING
	CROSS SECTIONS
20-23	MAIN STREET
24-27	ACCESS ROAD

GENERAL NOTES

1. FOR STANDARD PLANS, SEE DEPARTMENT OF TRANSPORTATION WEBSITE AT: WWW.NH.GOV/DOT/ORG/PROJECTDEVELOPMENT/HIGHWAYDESIGN/STANDARDPLANS/INDEX.HTM.
2. HIGH TENSION OVERHEAD TRANSMISSION LINES ARE LOCATED THROUGHOUT THE PROJECT WITH CROSSINGS AT VARIOUS LOCATIONS AND RUNNING ALONG THE ROAD THROUGHOUT THE PROJECT EVEN ON REGULAR POLES. THE CONTRACTOR IS ADVISED THAT EXTREME CAUTION WILL BE REQUIRED IN THE OPERATION OF EQUIPMENT, ESPECIALLY CRANES AND PILE DRIVING EQUIPMENT.
3. MODIFY SUPERELEVATION ON EXISTING CURVES BY THE USE OF A LEVELING COURSE TO THE RATES INDICATED ON THE PLANS OR AS ORDERED.
4. EXISTING DELINEATORS AND WITNESS MARKERS THAT ARE REMOVED AND DETERMINED BY THE ENGINEER TO BE IN ACCEPTABLE CONDITION SHALL BE RESET (SUBSIDIARY). ADDITIONAL DELINEATORS AND WITNESS MARKERS ORDERED WILL BE PAID UNDER THE APPROPRIATE ITEMS OF THE CONTRACT.
5. NO EXISTING MONUMENTS, BOUNDS, OR BENCHMARKS SHALL BE DISTURBED WITHOUT FIRST MAKING PROVISIONS FOR RELOCATION.
6. PERFORM ALL WORK WITHIN THE EXISTING RIGHT-OF-WAY, UNLESS OTHERWISE SHOWN ON THE PLANS OR AS ORDERED BY THE ENGINEER.
7. REMOVE UNPROTECTED PROJECT MARKERS (SUBSIDIARY).
8. SURVEY DATA FOR THIS PROJECT WAS COLLECTED BY SDR AND THE FIELD NOTES CAN BE FOUND IN THE FIELD BOOK(S) 13337. COORDINATES ARE NEW HAMPSHIRE STATE PLANE COORDINATES OF NAD83, 1986 ADJUSTMENT AND THE BEARINGS ARE GRID. ELEVATIONS ARE REFERENCED TO NGVD 1929.
9. QUANTITIES FOR EMBANKMENT AND EXCAVATION FOR SLOPE ROUNDINGS AS SHOWN ON THE TYPICALS HAVE NOT BEEN CALCULATED AND ARE NOT INCLUDED IN THE QUANTITY SUMMARIES, AND ARE CONSIDERED SUBSIDIARY TO THE APPROPRIATE 203 ITEMS.

THE FOLLOWING GENERAL NOTES WILL BE USED ON THIS PROJECT:

1	2		4	5	6		8	9			

STATE OF NEW HAMPSHIRE

DEPARTMENT OF TRANSPORTATION ∘ BUREAU OF HIGHWAY DESIGN

INDEX OF SHEETS AND GENERAL NOTES

REVISION DATE	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
9-1-2016	12967B Index	12967B	2	27

GENERAL

EDGE OF PAVEMENT — PROPOSED ROADWAY
TRAVELED WAY — existing roadway — (pavement removed outside slope lines)

DRIVEWAYS — (label surface type)

BUILDINGS — (building to be removed) — (label house or type of building)

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)
(show station, circumference in feet & type)

TREE OR STUMP (CROSS-SECTIONS)

HEDGE — (label type)

MONITORING WELL — mon W

WELL — W

FLAG POLE — fp

ORIGINAL GROUND (TYPICALS)

ROCK OUTCROP

ROCK LINE (TYPICALS & SECTIONS ONLY)

GUARDRAIL (label type) — existing — PROPOSED — bgr — 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 — S

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 — 2 PUB2E

DELINEATED WETLAND — DW
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. I — I.S. II
INVASIVE SPECIES — INV

FLOODPLAIN / FLOODWAY

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

ENGINEERING

CONSTRUCTION BASELINE — 30 31 32

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

SLOPE LINE (FILL)

SLOPE LINE (CUT)

PROFILES AND CROSS SECTIONS:
ORIGINAL GROUND ELEVATION (LEFT) — 72.5
FINISHED GRADE ELEVATION (RIGHT) — 79.14

SHEET 1 OF 2

STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION ∘ BUREAU OF HIGHWAY DESIGN

STANDARD SYMBOLS

REVISION DATE	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
11-21-2014	12967B Std Symb	12967B	3	27

DRAINAGE

MANHOLE — (existing) — (PROPOSED)

CATCH BASIN — cb

DROP INLET — di

DRAINAGE PIPE (existing) — (label size & type)

DRAINAGE PIPE (PROPOSED)

UNDERDRAIN (existing) W/ FLUSHING BASIN — fb — (label size & type)

UNDERDRAIN (PROPOSED) W/ FLUSHING BASIN

show direction of flow

HEADER (existing & PROPOSED) — (with stone outlet protection)

END SECTION (existing & PROPOSED) — METAL or PLASTIC — RCP

OPEN DITCH (PROPOSED)

EROSION CONTROL/ STONE SLOPE PROTECTION

BOUNDARIES / RIGHT-OF-WAY

RIGHT-OF-WAY LINE — (label type)

RR RIGHT-OF-WAY LINE

PROPERTY LINE

PROPERTY LINE (COMMON OWNER) — Z

TOWN LINE — BOW / CONCORD

COUNTY LINE — COOS / GRAFTON

STATE LINE — MAINE / NEW HAMPSHIRE

NATIONAL FOREST

CONSERVATION LAND — LC

BENCH MARK / SURVEY DISK

BOUND — bnd — (PROPOSED)

STATE LINE/ TOWN LINE MONUMENT — S/L — T/L

NHDOT PROJECT MARKER

IRON PIPE OR PIN — ip

DRILL HOLE IN ROCK — dh

TAX MAP AND LOT NUMBER — 156 / 14 — 1642/341 — 6.80 Ac.±

PROPERTY PARCEL NUMBER — 12

HISTORIC PROPERTY — H

UTILITIES

	existing	PROPOSED
TELEPHONE POLE		
POWER POLE		
JOINT OCCUPANCY	(plot point at face not center of symbol)	
MISCELLANEOUS/UNKNOWN POLE		
GUY POLE OR PUSH BRACE		
LIGHT POLE		
LIGHT ON POWER POLE		
LIGHT ON JOINT POLE		
POLE STATUS: REMOVE, LEAVE, PROPOSED, OR TEMPORARY AS APPLICABLE e.g.:	R L	P+04 25.0′ T+04 25.0′
RAILROAD	(label ownership)	
RAILROAD SIGN		
RAILROAD SIGNAL		
UTILITY JUNCTION BOX	jb	JB
OVERHEAD WIRE	OW (label type)	OW
UNDERGROUND UTILITIES		
WATER (on existing lines label size, type and note if abandoned)	W	PW
SEWER	S	PS
TELEPHONE	T	PT
ELECTRIC	E	PE
GAS	G	PG
LIGHTING	L	PL
INTELLIGENT TRANSPORTATION SYSTEM	ITS	PITS
FIBER OPTIC	FO	PFO
WATER SHUT OFF	WSO	WSO
GAS SHUT OFF	GSO	GSO
HYDRANT	HYD	HYD
MANHOLES		
SEWER	S	MHS
TELEPHONE	T	MHT
ELECTRICAL	E	MHE
GAS	G	MHG
UNKNOWN	U	

TRAFFIC SIGNALS / ITS

	existing	PROPOSED
MAST ARM (existing)		30′ MA (NOTE ANGLE FROM ℄)
OPTICOM RECEIVER		
OPTICOM STROBE		
TRAFFIC SIGNAL		
PEDESTAL WITH PEDESTRIAN SIGNAL HEADS AND PUSH BUTTON UNIT		
SIGNAL CONDUIT	C	PC
CONTROLLER CABINET	cc	CC
METER PEDESTAL	mp	MP
PULL BOX	pb	PB
LOOP DETECTOR (QUADRUPOLE)		(label size)
LOOP DETECTOR (RECTANGULAR)		(label size)
CAMERA POLE (CCTV)		
FIBER OPTIC DELINEATOR	fod	FOD
FIBER OPTIC SPLICE VAULT		SVF
ITS EQUIPMENT CABINET	its	ITS
VARIABLE SPEED LIMIT SIGN		
DYNAMIC MESSAGE SIGN		
ROAD AND WEATHER INFO SYSTEM		

CONSTRUCTION NOTES

CURB MARK NUMBER - BITUMINOUS	B-1
CURB MARK NUMBER - GRANITE	G-1
CLEARING AND GRUBBING AREA	A
DRAINAGE NOTE	1
EROSION CONTROL NOTE	A
FENCING NOTE	A
GUARDRAIL NOTE	1
ITS NOTE	1
LIGHTING NOTE	A
TRAFFIC SIGNAL NOTE	1

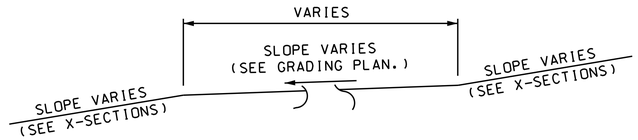
SHEET 2 OF 2

STATE OF NEW HAMPSHIRE

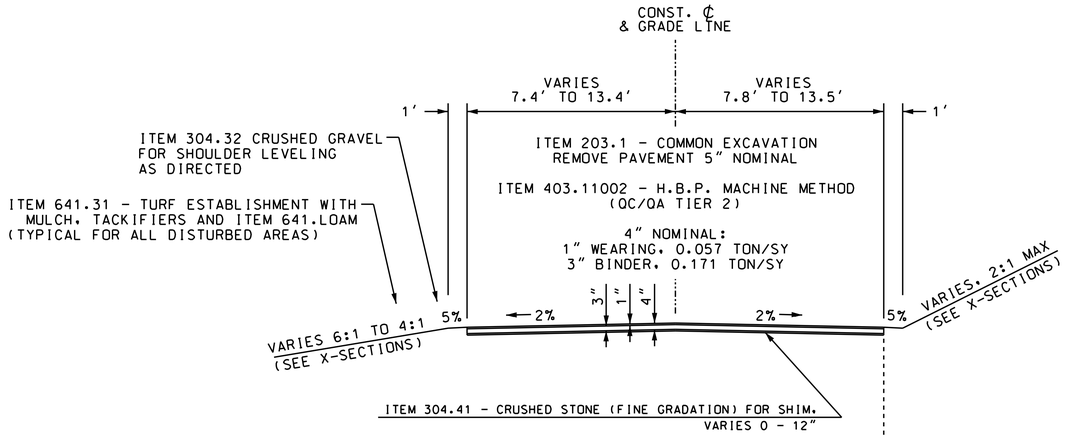
DEPARTMENT OF TRANSPORTATION ∘ BUREAU OF HIGHWAY DESIGN

STANDARD SYMBOLS

REVISION DATE	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
9-1-2016	12967B Std Symb	12967B	4	27

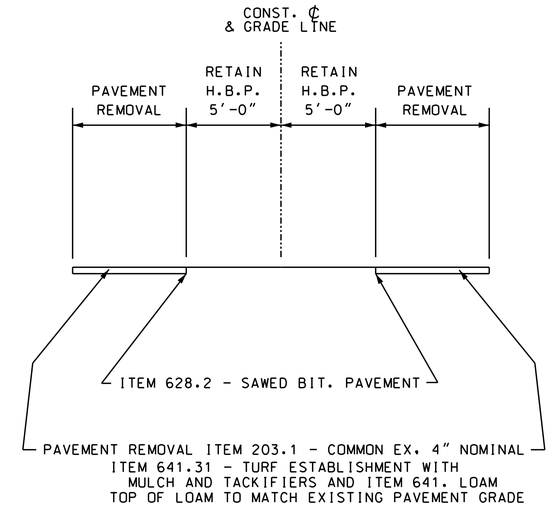


SUPERELEVATED SECTION



MAIN STREET

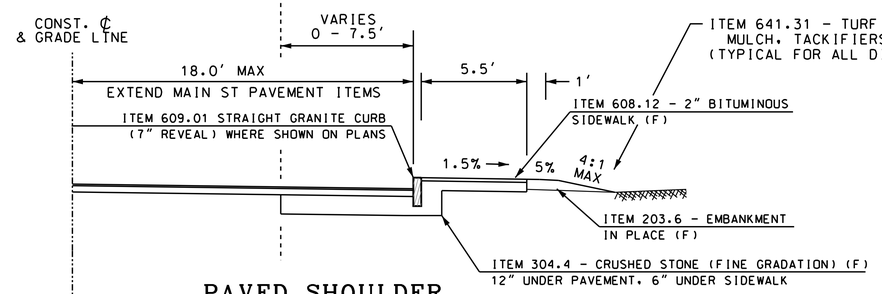
STA. 317+20 - 323+50



ACCESS ROAD

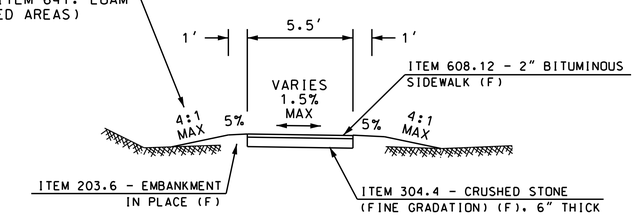
STA. 23+78.2 - 25+30.4 LT
STA. 25+41.0 - 26+03.3 LT

STA. 23+66.8 - 25+32.7 RT
STA. 25+42.6 - 26+03.1 RT

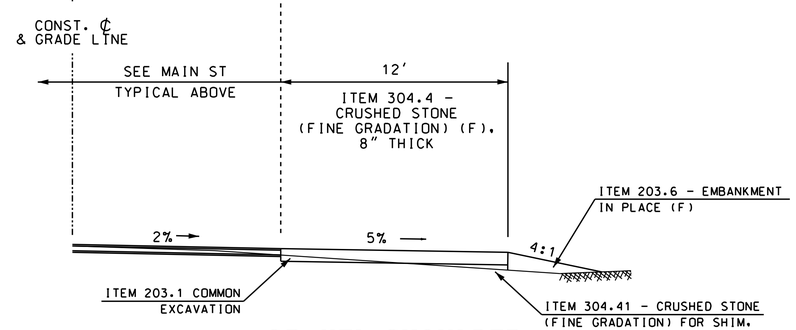


PAVED SHOULDER

STA. 317+61.8 RT - 318+40 RT



BITUMINOUS SIDEWALK



GRAVEL SHOULDER

STA. 321+15 RT - 322+77 RT

NOT TO SCALE

STATE OF NEW HAMPSHIRE			
DEPARTMENT OF TRANSPORTATION ∘ BUREAU OF HIGHWAY DESIGN			
TYPICAL SECTION			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
12967B Typical	12967B	5	27

REVISIONS AFTER PROPOSAL			
NUMBER	DATE	STATION	DESCRIPTION

SDR PROCESSED	XX	DATE XX	
NEW DESIGN	DRH	DATE 10/2016	
SHEET CHECKED	CAC	DATE 12/2016	
AS BUILT DETAILS		DATE	

DRAINAGE

ITEM NO.	585.3	593.421	603.0001	603.00215	603.34118	604.0007	604.224	604.4	NOTES
DESCRIPTION	STONE FILL CLASS C	GEOTEXTILE PERM CONTROL, CL. 2, NON-WOVEN	VIDEO INSPECTION	15" R.C. PIPE, 2000D	18" STEEL END SECTIONS	POLYETHLENE LINER	DROP INLETS TYPE B, 4-FOOT DIAMETER	RECONST. / ADJUST CATCH BASIN & DROP INLET	
UNIT	CY	SY	LF	LF	EA	EA	U	LF	
DRAIN NOTE									
1	3.7	13.3	66.0	66.0	1	1	1.0		
2						1		1.0	
3								3.0	
SUB-TOTAL	3.7	13.3	66.0	66.0	1	2	1.0	4.0	
ROUNDING	1.3	1.7	6.0	6.0	0	0	0.0	0.0	
TOTAL	5	15	72	72	1	2	1	4	

EARTHWORK

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
	COMMON EXCAVATION IN SECTIONS	CY	323.9
	PAVEMENT REMOVAL	CY	29.9
	MISC EXCAVATION NOT IN SECTIONS	CY	22.0
	TOPSOIL REMOVED BENEATH FILL SECTIONS	CY	50.8
	TOTAL COMMON EXCAVATION	CY	426.6
203.1	COMMON EXCAVATION	CY	440
203.381	SEGREGATING / REHANDLING LIMITED REUSE SOILS	CY	90
	SECTION FILL	CY	31.0
	TOPSOIL REPLACEMENT	CY	50.8
	TOTAL FILL	CY	81.8
203.6	EMBANKMENT-IN-PLACE (F)	CY	82

SURFACING

ITEM NO.	304.32	304.4	304.41	403.11002	403.12	403.6	410.22	417	608.12	608.24	608.54	628.2
DESCRIPTION	CRUSHED GRAVEL FOR SHOULDER LEVELING	CRUSHED STONE (FINE GRADATION) (F)	CRUSHED STONE (FINE GRADATION) FOR SHIM	HOT BIT. PAVEMENT, MACHINE METHOD (QC/QA) TIER 2	HOT BITUMINOUS PAVEMENT, HAND METHOD	PAVEMENT JOINT ADHESIVE	ASPHALT EMULSION FOR TACK COAT	COLD PLANING BITUMINOUS SURFACES	2" BITUMINOUS SIDEWALK (F)	4" CONCRETE SIDEWALK (F)	DETECTABLE WARNING DEVICES, CAST IRON	SAWED BITUMINOUS PAVEMENT
UNIT	TON	CY	CY	TON	TON	LF	GAL	SY	SY	SY	SY	LF
LOCATION												
MAIN STREET	31.6	66.8	135.7	378.3	1.0	1808.0	49.8	26.8	22.2	13.0	3.9	73.2
SIDE ROADS / DRIVES				1.6	14.5		6.0	46.1				528.6
GRAVEL PARKING			73.2									
SIDEWALK		39.7							229.2	2.5	1.20	10.0
SUB-TOTAL	31.6	106.5	208.9	379.9	15.5	1,808.0	55.8	72.9	251.4	15.5	5.1	611.8
ROUNDING	0.4	0.5	11.1	20.1	4.5	67.0	4.2	7.1	8.6	0.5	0.9	18.2
TOTAL	32	107	220	400	20	1,875	60	80	260	16	6	630

CURBING

ITEM NO.		609.01	609.5
DESCRIPTION		STRAIGHT GRANITE CURB	RESET GRANITE CURB
UNIT	RADIUS	LF	LF
STATION - STATION			
316+96.1 RT - 317+24.1 RT	---	30.0	6.0
317+61.8 RT - 317+92.6 RT	---	40.4	
317+92.6 RT - 318+30.0 RT	228	40.6	
SUB-TOTAL		111.0	6.0
ROUNDING		9.0	4.0
TOTAL		120	10

REVISIONS AFTER PROPOSAL

NUMBER	DATE	STATION	STATION	DESCRIPTION

SDR PROCESSED XX DATE XX
NEW DESIGN DRH DATE 10/2016
SHEET CHECKED CAC DATE 12/2016
AS BUILT DETAILS DATE

STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN

QUANTITY SUMMARY

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
12967B Sum	12967B	6	27

LANDSCAPING, SLOPE PROTECTION AND EROSION CONTROL

ITEM NO.	641.	645.3	645.512	645.531	646.31	650.2
DESCRIPTION	LOAM	EROSION STONE	COMPOST SOCK FOR PERIMETER BERM	SILT FENCE	TURF ESTABLISHMENT W/ MULCH & TACKIFIERS	LANDSCAPING
UNIT	CY	TON	LF	LF	SY	U
LOCATION						
PROJECT WIDE	81.6	40.0	1639.0	1,815.0	741.4	1
PLANTING BEDS	27.9					
SUB-TOTAL	109.5	40.0	1,639.0	1,815.0	741.4	1
ROUNDING	5.5	0.0	81.0	85.0	38.6	0
TOTAL	115	40	1,720	1,900	780	1

PERMANENT CONSTRUCTION SIGNS AND WARNING DEVICES

(INCLUDED IN ITEM NO. 619.1)

SIGN NO.	DESCRIPTION	SIZE (ft)	S.F.	NO. REQ.	TOTAL AREA	POSTS	PORTABLE SIGN SUPPORTS	REMARKS
G20-2a	END ROAD WORK	2X4	8	6	48	4	2	BLACK ON ORANGE
M4-8a	END DETOUR	2X1.5	3	2	6		2	BLACK ON ORANGE
M4-9L	DETOUR (LEFT)	2.5X2	5	1	5		1	BLACK ON ORANGE
M4-9R	DETOUR (RIGHT)	2.5X2	5	1	5		1	BLACK ON ORANGE
M4-10R	DETOUR (INSIDE ARROW)	4X2	8	1	8			BLACK ON ORANGE, MOUNT BELOW R11-2 ON TYPE 3 BARRICADE
R11-2	ROAD CLOSED	4X2.5	10	2	20			BLACK ON ORANGE, MOUNT ON TYPE 3 BARRICADE
R50-1	NH LAW WORK ZONE	4X3	12	2	24	2		BLACK ON WHITE
R200-S	UNAUTHORIZED TRAVEL PROHIBITED	4X2	8	2	16			BLACK ON ORANGE, MOUNT ON TYPE 3 BARRICADE
W20-1a	ROAD WORK AHEAD	3X3	9	4	36	2	2	BLACK ON FLUORESCENT ORANGE
W20-1d	ROAD WORK 1500 FEET	3X3	9	2	18	2		BLACK ON FLUORESCENT ORANGE
W20-2a	DETOUR AHEAD	3X3	2	2	4		2	BLACK ON ORANGE

The estimated quantities of "Permanent Controls" are hereby listed. The Contractor is responsible for all "Operational Controls" required under section 619 of the NHDOT Specifications and the Manual on Uniform Traffic Control Devices (MUTCD), Part VI.

PAVEMENT MARKINGS

ITEM NO.	632.0104	632.3106	632.3118
DESCRIPTION	RETROREFLECTIVE PAINT PAVEMENT MARKING, 4" LINE	RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKING, 6" LINE	RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKING, 18" LINE
UNIT	LF	LF	LF
LOCATION			
MAIN STREET	5,720.0		
SIDE ROADS		68.0	30.0
SUB-TOTAL	5,720.0	68.0	30.0
ROUNDING	80.0	2.0	0.0
TOTAL	5,800	70	30

INCIDENTAL ITEMS

ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL
206.19	COMMON STRUCTURE EXCAVATION, EXPLORATORY	CY	5
214.	FINE GRADING	U	1
604.51	RECONSTRUCTING / ADJUSTING SEWER MANHOLES	LF	5
607.9910	BARWAY, 10 FT	U	2
611.90001	ADJUSTING WATER GATES AND SHUTOFFS SET BY OTHERS	EA	1
615.03	TRAFFIC SIGN TYPE C	SF	18
618.61	UNIFORMED OFFICERS W/ VEHICLE	$	2,500
618.7	FLAGGERS	HR	750
619.1	MAINTENANCE OF TRAFFIC	U	1
619.253	PORTABLE CHANGEABLE MESSAGE SIGN (UNIT WEEK)	UWK	16
621.3	SINGLE DELINEATOR WITH POST	EA	10
622.1	STEEL WITNESS MARKERS	EA	10
634.	BOULDERS FOR BARRICADE	EA	17
645.7	STORMWATER POLLUTION PREVENTION PLAN	U	1
645.71	MONITORING SWPPP AND EROSION AND SEDIMENT CONTROLS	HR	75
692.	MOBILIZATION	U	1
697.31	PROJECT OPERATIONS PLAN	U	1
699.	MISC. TEMP. EROSION AND SEDIMENT CONTROL	$	5,000
1010.15	FUEL ADJUSTMENT	$	2,000
1010.30	QC / QA ASPHALT	$	1,800

REVISIONS AFTER PROPOSAL

NUMBER	DATE	STATION	STATION	DESCRIPTION

SDR PROCESSED	XX	DATE XX
NEW DESIGN	DRH	DATE 10/2016
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AS BUILT DETAILS		DATE

STATE OF NEW HAMPSHIRE

DEPARTMENT OF TRANSPORTATION ∘ BUREAU OF HIGHWAY DESIGN

QUANTITY SUMMARY

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
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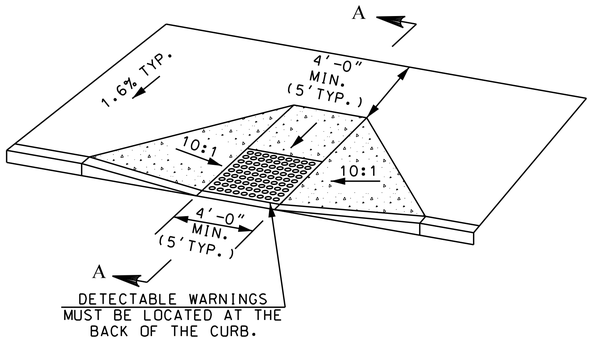
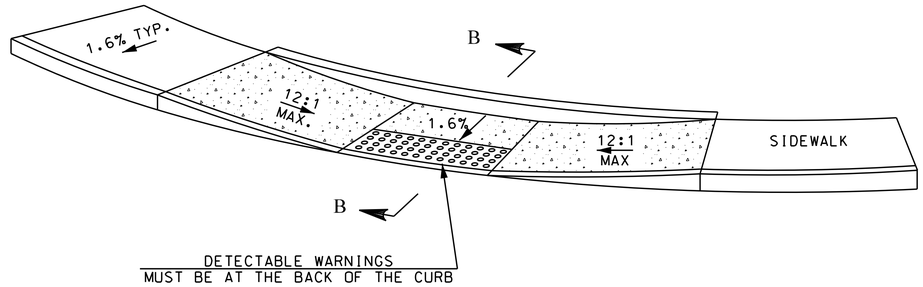
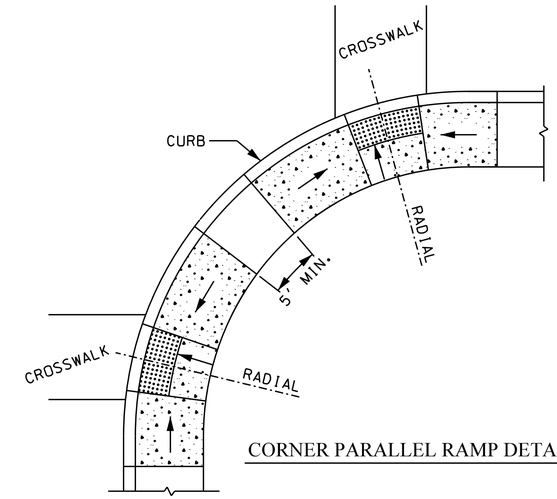


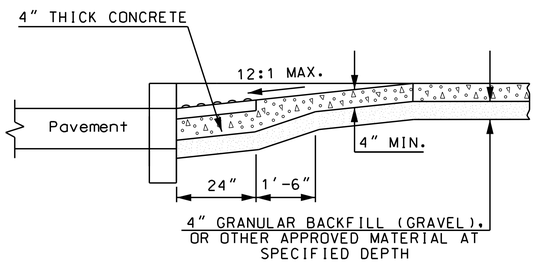
PERPENDICULAR CURB RAMP DETAIL



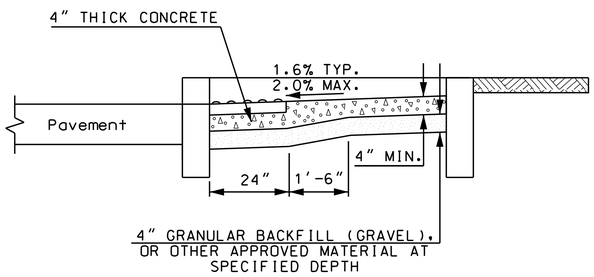
PARALLEL CURB RAMP DETAIL



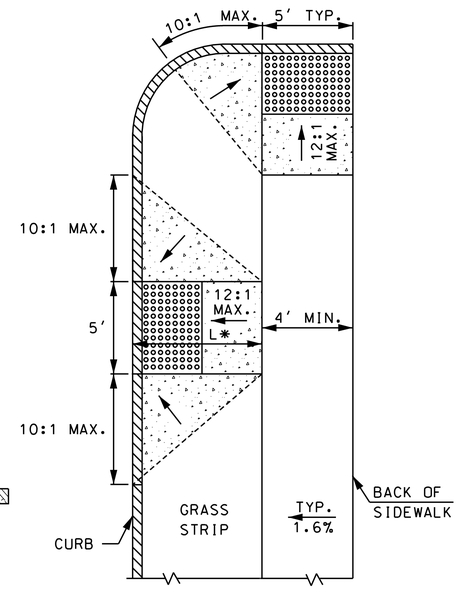
CORNER PARALLEL RAMP DETAIL



SECTION A-A



SECTION B-B



PERPENDICULAR RAMP WITH GRASS PANEL

* LENGTH OF RAMP VARIES WITH SLOPE & WIDTH OF GRASS PANEL

TRANSITION RAMPS:

BLENDED TRANSITIONS HAVE A RUNNING SLOPE GREATER THAN 2% BUT LESS THAN 5%. CURB RAMPS HAVE A RUNNING SLOPE OF 5% MIN. TO 8.33% MAX. SIDEWALK, BLENDED TRANSITIONS, AND CURB RAMPS HAVE A MAX. CROSS SLOPE OF 2%.

ALL GRADE BREAKS BETWEEN LANDINGS, RAMPS, AND BLENDED TRANSITIONS SHALL BE PERPENDICULAR TO THE DIRECTION OF TRAVEL.

IF IT IS NECESSARY TO USE SIDEWALK WIDTHS 5'-0" OR LESS, PROVIDE A WIDENED AREA A MINIMUM OF 5'-0" WIDE BY 5'-0" LONG SPACED AT INTERVALS OF 200' MAXIMUM TO ALLOW FOR USERS TO PASS EACH OTHER.

PROVIDE DETECTABLE WARNING SURFACES ANYTIME THAT A CURB RAMP, BLENDED TRANSITION, OR LANDING CONNECTS TO A STREET. PLACEMENT FOR DETECTABLE WARNING SURFACES ARE AS FOLLOWS:

PERPENDICULAR CURB RAMPS:

WHERE BOTH ENDS OF THE BOTTOM GRADE ARE LESS THAN 5'- 0" FROM THE BACK OF THE CURB, LOCATE THE DETECTABLE WARNING PANELS ON THE RAMP SURFACE AT THE BOTTOM OF THE RAMP. WHERE EITHER END OF THE BOTTOM GRADE IS GREATER THAN 5'-0" FROM THE BACK OF THE CURB, LOCATE THE DETECTABLE WARNINGS AT THE BOTTOM OF THE LANDING.

PARALLEL CURB RAMPS:

LOCATE THE DETECTABLE WARNING SURFACES AT THE BACK OF THE CURB ALONG THE EDGE OF THE LANDING.

FOR BLENDED TRANSITIONS AND LANDINGS:

LOCATE THE DETECTABLE WARNING SURFACES AT THE BACK OF THE CURB.

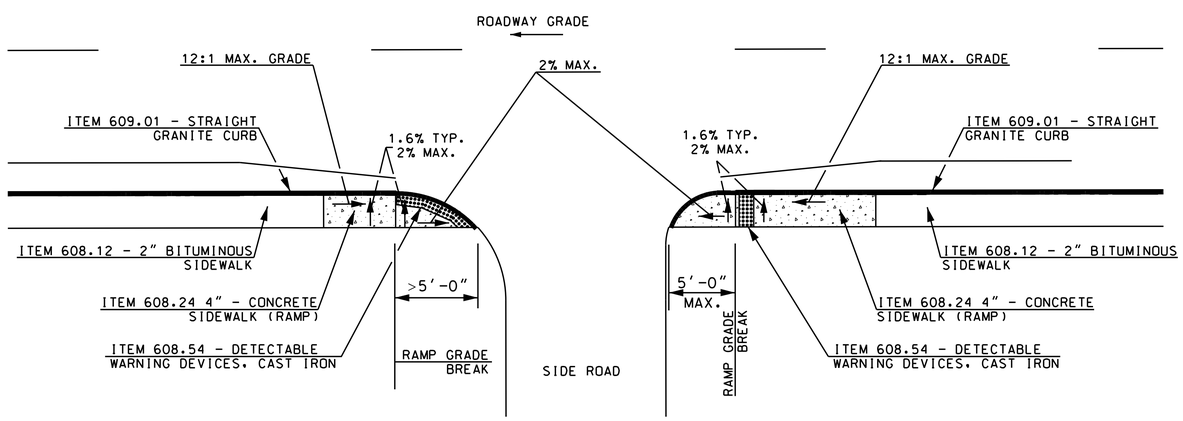
THE ORDER OF PREFERENCE FOR LOCATION OF CORNER RAMPS:

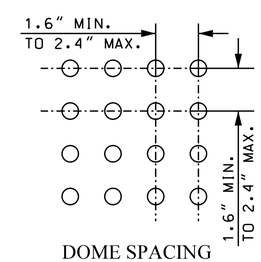
1. TWO SEPARATE RAMPS LOCATED ON TANGENT SIDEWALK AREA IMMEDIATELY OUTSIDE OF CORNER RADIUS.
2. TWO SEPARATE RAMPS SEPARATED BY 5' MINIMUM AS SHOWN ABOVE.
3. SINGLE RAMP SERVING TWO CROSSWALKS.

GENERAL NOTES

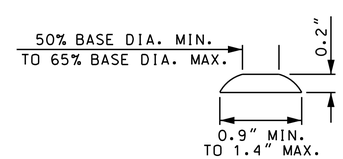
1. THE MAXIMUM RUNNING SLOPE OF ANY SIDEWALK CURB RAMP IS 12:1. THE MAXIMUM CROSS SLOPE IS 2%. THE SLOPE OF THE LANDING SHALL NOT EXCEED 2% IN ANY DIRECTION.

   RAMP RUNNING SLOPE EXCEPTION: A GREATER THAN 8.33% RAMP RUNNING GRADE IS ALLOWED WHERE THE THE ROADWAY AND THE SIDEWALK(S) ARE PARALLEL AND VERY CLOSE TOGETHER, WITH THE SAME GRADE, AND USING A GRADE OF 8.33% WOULD RESULT IN A RAMP LENGTH LONGER THAN 15'. IN THOSE CIRCUMSTANCES USE A MAXIMUM RAMP LENGTH OF 15'AND THE ALLOWABLE RUNNING SLOPE OF THE RAMP(S) IS GREATER THAN 8.33%.
2. TRANSITIONS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. ROADWAY SHOULDER SLOPES ADJOINING SIDEWALK CURB RAMPS SHALL BE A MAXIMUM OF 5% (FULL WIDTH) FOR A DISTANCE OF 2 FT. FROM THE ROADWAY CURBLINE.
3. INTERCEPT DRAINAGE ALONG THE CURB IN ADVANCE OF SIDEWALK CURB RAMPS OR LANDINGS. CATCH BASINS, MANHOLES, ETC. SHALL NOT BE LOCATED IN, OR AT THE BASE OF, SIDEWALK CURB RAMPS OR LANDINGS.
4. THE BOTTOM OF THE SIDEWALK CURB RAMP OR LANDING, EXCLUSIVE OF THE FLARED SIDES, SHALL BE WHOLLY CONTAINED WITHIN THE CROSSWALK MARKINGS.
5. THE SURFACE OF A PERPENDICULAR SIDEWALK CURB RAMP OR THE LANDING OF A PARALLEL SIDEWALK CURB RAMP SHALL CONTRAST VISUALLY WITH THE ADJOINING SIDEWALK SURFACE, EITHER ASPHALT/LIGHT-COLORED CONCRETE OR LIGHT-COLORED CONCRETE/DARK-STAINED CONCRETE. THE CONCRETE SURFACE SHALL BE SLIP RESISTANT.
6. DETECTABLE WARNING PANELS SHALL BE THE FULL WIDTH OF THE LANDING, BLENDED TRANSITION, OR CURB RAMP THEY ARE A PART OF AND SHALL BE A MINIMUM OF 2 FEET IN DEPTH. THE ROWS OF TRUNCATED DOMES SHALL BE ALIGNED PERPENDICULAR TO THE GRADE BREAK BETWEEN THE RAMP, BLENDED TRANSITION, OR LANDING AND THE STREET.





DOME SPACING



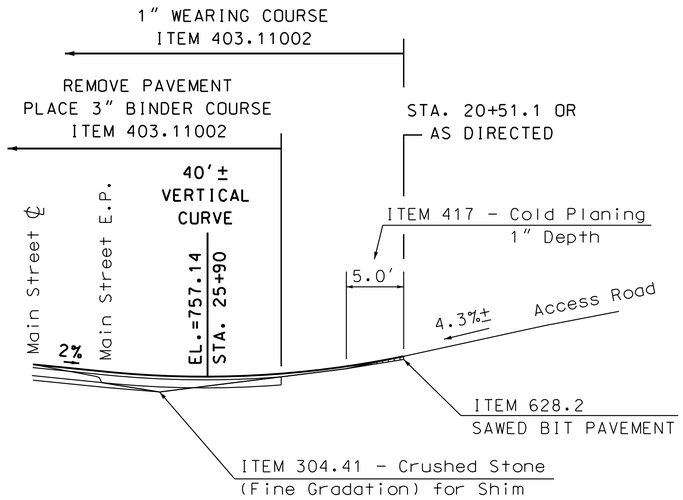
DOME SECTION

STATE OF NEW HAMPSHIRE

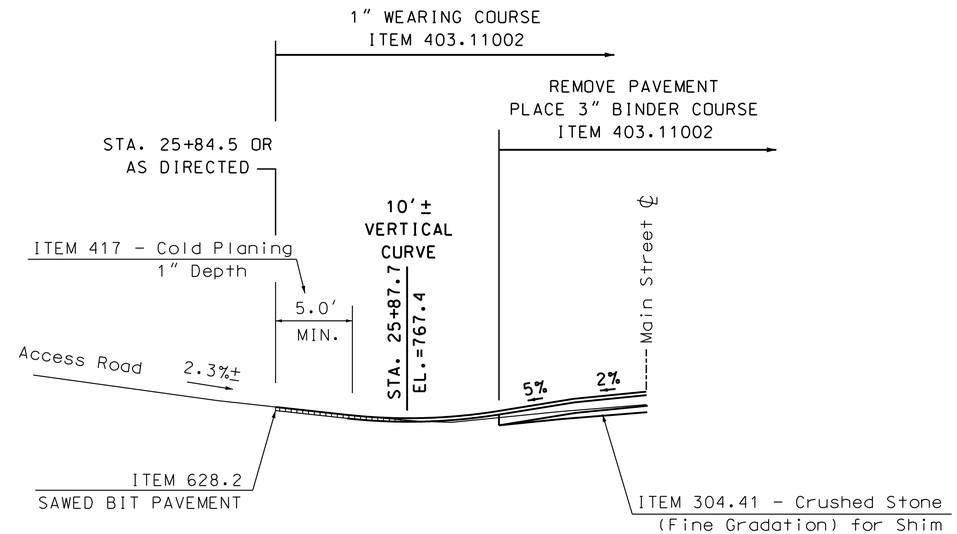
DEPARTMENT OF TRANSPORTATION ∘ BUREAU OF HIGHWAY DESIGN

SIDEWALK CURB RAMPS WITH DETECTABLE WARNINGS

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
12967B CurbRamp	12967B	8	27

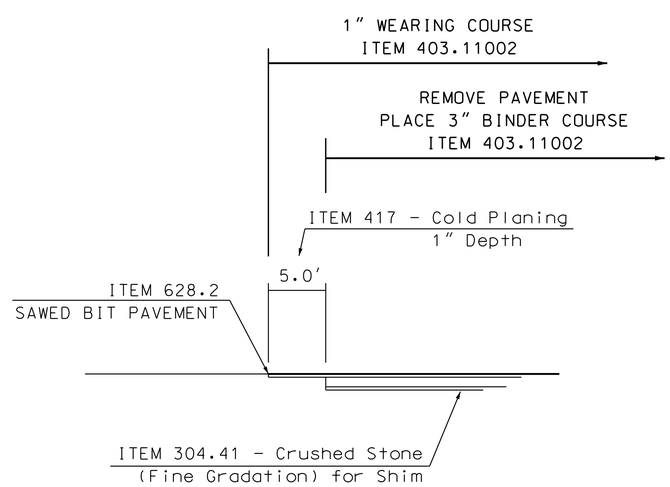


WEST MATCH



NORTH MATCH

Access Road



Main Street

GENERAL NOTES:

1. ITEM 403.6 - PAVEMENT JOINT ADHESIVE. SHALL BE USED ON ALL LONGITUDINAL PAVING JOINTS AND ON ALL JOINTS BETWEEN NEW AND EXISTING PAVEMENT.

NOT TO SCALE

STATE OF NEW HAMPSHIRE

DEPARTMENT OF TRANSPORTATION ∘ BUREAU OF HIGHWAY DESIGN

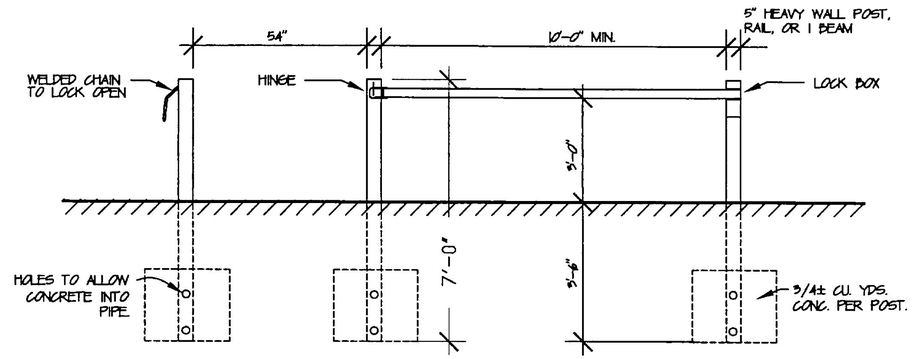
PAVEMENT MATCH DETAIL

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
12967B PavMatch	12967B	9	27

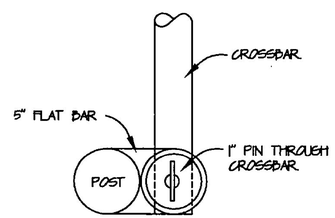
REVISIONS AFTER PROPOSAL

NUMBER	DATE	STATION	STATION	DESCRIPTION

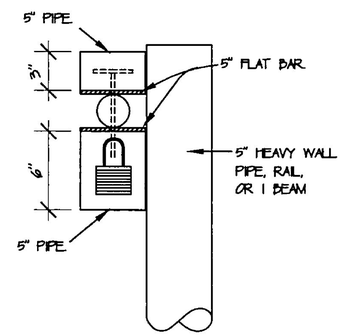
SDR PROCESSED	XX	DATE	XX
NEW DESIGN	DRH	DATE	9/2016
SHEET CHECKED	CAC	DATE	12/2016
AS BUILT DETAILS		DATE	



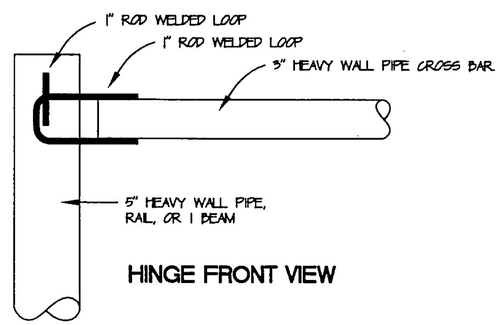
GATE FRONT VIEW



LOCK BOX TOP VIEW



LOCK BOX SIDE VIEW



HINGE FRONT VIEW

PAINTING:
OSHA ORANGE
OBJECT MARKERS
REFLECTIVE TAPE

NOTES:

1. ITEM 607.9910 - BARWAY, 10'
2. CONTACT DRED TO VERIFY GATE LOCATIONS. SEE PROSECUTION OF WORK FOR CONTACT INFORMATION.
3. THE FOLLOWING SHALL BE SUBSIDIARY TO EACH GATE:

   -ONE STEEL U-CHANNEL POST, 8' NOMINAL LENGTH, INSTALLED AS DIRECTED, ON THE TRAIL APPROXIMATELY 30' FROM THE GATE.

   -ONE 4"X4" TREATED WOOD POST, 8' NOMINAL LENGTH, INSTALLED AS DIRECTED, ON THE TRAIL APPROXIMATELY 150' IN ADVANCE OF THE GATE.

   STEEL U-CHANNEL POSTS SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF SECTION 615.

   WOOD POSTS SHALL BE AS APPROVED, EMBEDDED A MINIMUM OF 3'.

JOB NAME:	DRAWN BY: M. COEN	CHECKED BY:
LOCATION:	SCALE: NO SCALE	
	DATE: 6/4/93 REV. 8/12/96	
CONTRACTOR:	JOB NUMBER	SHEET
DESCRIPTION: RECREATION TRAIL GATE		2

STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN

DETAILS

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
12967B Details	12967B	10	27

REVISIONS AFTER PROPOSAL

NUMBER	DATE	STATION	STATION	DESCRIPTION

SDR PROCESSED XX	DATE XX	
NEW DESIGN DRH	DATE 9/2016	
SHEET CHECKED CAC	DATE 12/2016	
AS BUILT DETAILS	DATE	

ITEM #	IDENT #	SIGN SIZE WIDTH (inch)	SIGN SIZE HEIGHT (inch)	TEXT	TEXT DIMENSIONS LETTER HEIGHT (inch) UC	LC	CAPS	SHIELD SIZE (inch)	ARROW (inch)	NUMERAL (inch)	# SIGNS REQ'D	SIGN AREA (SQ. FT.) NOM AREA	TOTAL AREA	POSTS PER SIGN BREAKAWAY	STEEL I-BEAM	CONCRETE BASE	4" OD ALUMINUM	U-CHANNEL-GALV.	REMARKS
615.0301	W12-2	36	36						12.3x15.8 at 90 deg 12.3x15.8 at 90 deg	12D	2	9.00	18.00					1	BLACK/YELLOW

GENERAL NOTES

1. REFER TO THE 2010 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION PUBLISHED BY THE NHDOT.

2. NOTE NEW REFLECTIVITY REQUIREMENTS IN THE 2010 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.

REVISIONS AFTER PROPOSAL

NUMBER	DATE	STATION	STATION	DESCRIPTION

SDR PROCESSED XX DATE XX
NEW DESIGN KGS DATE 12/2016
SHEET CHECKED CAC DATE 12/2016

AS BUILT DETAILS DATE

STATE OF NEW HAMPSHIRE

DEPARTMENT OF TRANSPORTATION ∘ BUREAU OF HIGHWAY DESIGN

SIGN TEXT LAYOUT PERMANENT

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
12967B Signtxt	12967B	11	27

ITEM #	IDENT #	SIGN SIZE WIDTH (inch)	SIGN SIZE HEIGHT (inch)	TEXT	TEXT DIMENSIONS LETTER HEIGHT (inch) UC	LC	CAPS	SHIELD SIZE (inch)	ARROW (inch)	NUMERAL (inch)	# SIGNS REQ'D	SIGN AREA (SQ. FT.) NOM AREA	TOTAL AREA	POSTS PER SIGN BREAKAWAY	STEEL I-BEAM	CONCRETE BASE	4" OD ALUMINUM	U-CHANNEL-GALV.	REMARKS
619.1	G20-2a	36	18	END ROAD WORK			4C 4C				6	4.50	54.00					1	BLACK/ORANGE
619.1	M4-8a	24	18	END DETOUR			4D 4D				2	4.50	18.00						BLACK/ORANGE MOUNT ON EASEL
619.1	M4-9L	30	24	DETOUR			5D		18x12.1		1	5.00	5.00						BLACK/ORANGE MOUNT ON EASEL
619.1	M4-9R	30	24	DETOUR			5D		18x12.1		1	5.00	5.00						BLACK/ORANGE MOUNT ON EASEL
619.1	W20-1a	36	36	ROAD WORK AHEAD			5D 5D 5D				6	5.00	30.00					1	BLACK/ORANGE
619.1	W20-1d	36	36	ROAD WORK 1500 FT			5D 5D 5D				2	5.00	10.00					1	BLACK/ORANGE
619.1	W20-2a	36	36	DETOUR AHEAD			6D 6D				2	9.00	18.00						BLACK/ORANGE MOUNT ON EASEL
619.1	R11-2	48	30	ROAD CLOSED			8D 8D				2	10.00	20.00						BLACK/ORANGE MOUNT ON TYPE 3 BARRICADE
619.1	R50-1	48	36	NH LAW WORK ZONE SPEEDING FINES $250 - $500 RSA 265:6			5D 4D 4D 4D			4D	2	12.00	24.00					2	BLACK / WHITE
619.1	R200-S	48	24	UNAUTHORIZED TRAVEL PROHIBITED			4D 5D 5D				2	8.00	16.00						BLACK/ORANGE MOUNT ON TYPE 3 BARRICADE

ITEM #	IDENT#	SIGN SIZE WIDTH (inch)	SIGN SIZE HEIGHT (inch)	TEXT	TEXT DIMENSIONS LETTER HEIGHT (inch) UC	LC	CAPS	SHIELD SIZE (inch)	ARROW (inch)	NUMERAL (inch)	# SIGNS REQ'D	SIGN AREA (SQ. FT.) NOM AREA	TOTAL AREA	POSTS PER SIGN BREAKAWAY	STEEL I-BEAM	CONCRETE BASE	4" OD ALUMINUM	U-CHANNEL-GALV	REMARKS
619.1	M4-10R	48	18	DETOUR			6D				1	6.00	6.00						BLACK/ORANGE MOUNT BELOW R11-2 ON TYPE 3 BARRICADE

GENERAL NOTES

1. REFER TO THE 2010 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION PUBLISHED BY THE NHDOT.
2. NOTE NEW REFLECTIVITY REQUIREMENTS IN THE 2010 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 718 PUBLISHED BY THE NHDOT.
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4. REFER TO THE LATEST EDITION OF THE STANDARD HIGHWAY SIGNS MANUAL AS PUBLISHED BY THE USDOT-FHWA FOR EXACT DETAILS OF BORDERS, ETC.

STATE OF NEW HAMPSHIRE

DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY DESIGN

SIGN TEXT LAYOUT CONSTRUCTION

EXCEL FILE NAME	STATE PROJECT NO.	FEDERAL PROJECT NO.	SHEET NO.	TOTAL SHEETS
	12967B	X-A001(087)	12	27

REVISIONS AFTER PROPOSAL

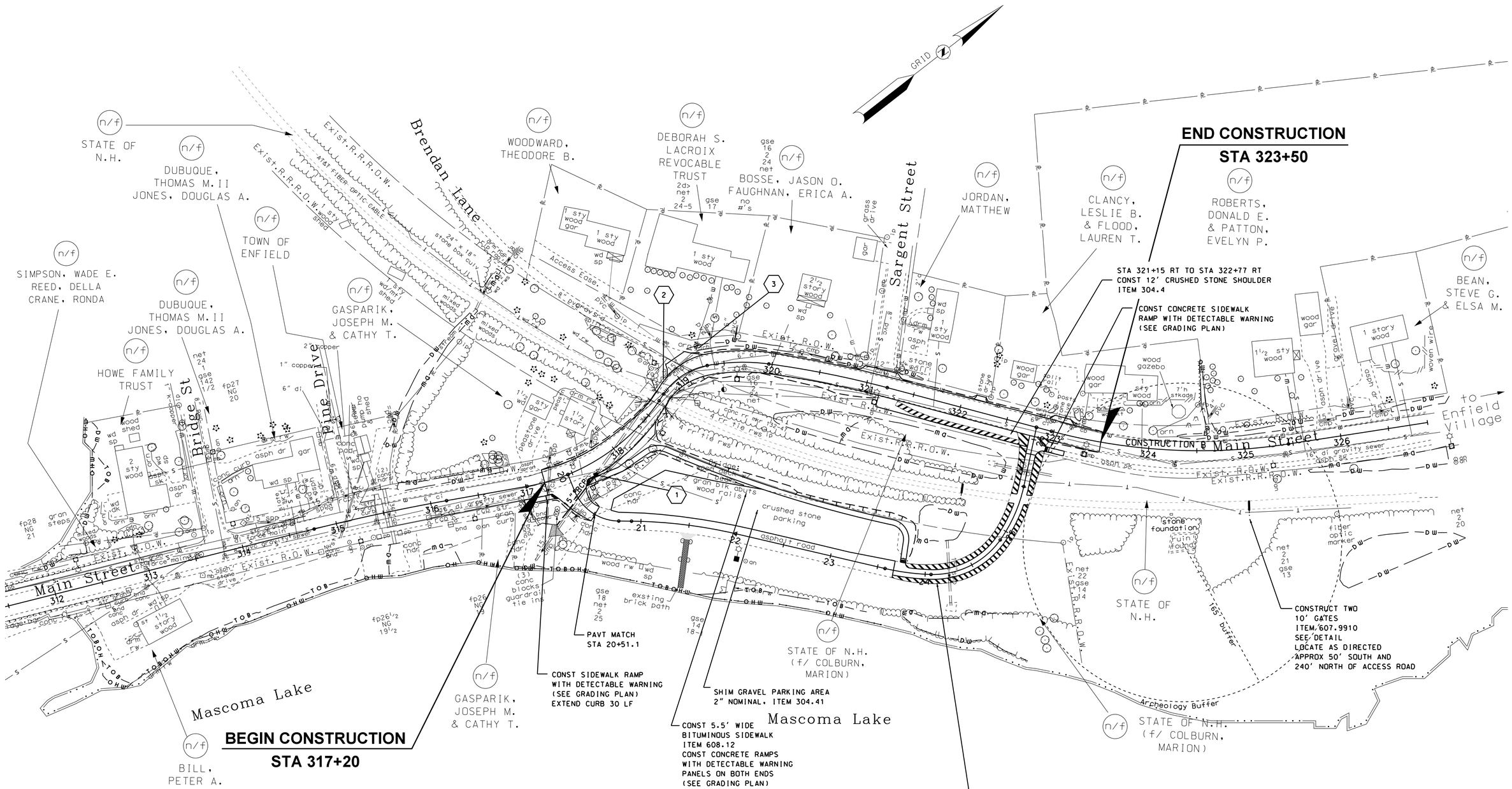
NUMBER	DATE	STATION	STATION	DESCRIPTION

SDR PROCESSED XX DATE XX

NEW DESIGN KGS DATE 12/2016

SHEET CHECKED CAC DATE 12/2016

AS BUILT DETAILS DATE



CURB NOTES

1. STA 317+20.4 RT 46.1' TO STA 317+70.75 RT 12.9'
CONST DI-B AT +70.75, GRATE EL 757.75,
CONNECT TO EXIST 15" CMP SUBSID. INV IN 753.3±
CONST 66 LF OF 15" RCP INV OUT 753.25
OUTLET AT +20.4 INV 752.0
CONST 18" METAL END SECTION
CONST 5 CY CLASS C STONE APRON OVER GEOTEXTILE
RESHAPE EXISTING STONE FILL (SUBSID.)
PLUG AND ABANDON REMAINING 15" CMP (SUBSID.)

2. STA 318+88 LT 9.9'
ADJUST AND REPAIR
EXISTING DI-E
CONST POLY LINER
RESET GRATE TO EL 759.0±

3. STA 319+28 LT 19.7'
ADJUST AND REPAIR
EXISTING CB-C

STA 316+96.1, RT 13.1' TO
STA 317+24.1, RT 13.75'
RESET 6 LF CURB (ITEM 609.5)
CONST 23 LF STRAIGHT
GRANITE CURB, 7" REVEAL
AND 7 LF CURB, 0" REVEAL
AT RAMP (ITEM 609.01)

STA 317+61.8, RT 13' TO
STA 317+92.6, RT 18'
CONST 33.4 LF STRAIGHT
GRANITE CURB, 7" REVEAL
AND 7 LF CURB, 0" REVEAL
AT RAMP (ITEM 609.01)

STA 317+92.6, RT 18' TO
STA 318+30.0, RT 18'
CONST 40.6 LF
STRAIGHT GRANITE CURB
7" REVEAL, RADIUS = 228'
(ITEM 609.01)

50 0 50 100
SCALE IN FEET

STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION ◦ BUREAU OF HIGHWAY DESIGN

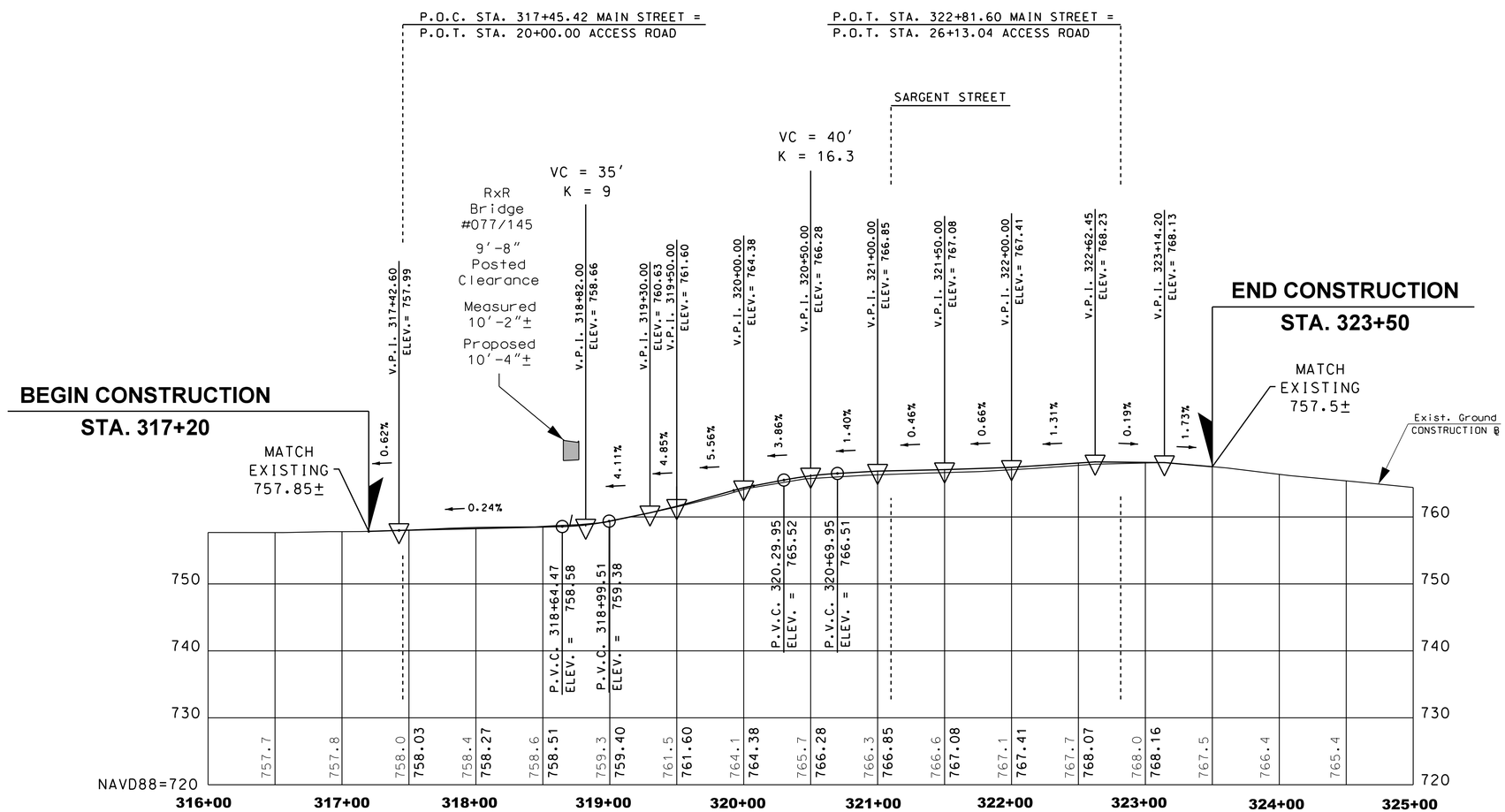
GENERAL PLAN

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
12967B GenPlan	12967B	13	27

REVISIONS AFTER PROPOSAL

NUMBER	DATE	STATION	STATION	DESCRIPTION

SDR PROCESSED	XX	DATE XX
NEW DESIGN	DRH	DATE 11/2016
SHEET CHECKED	CAC	DATE 12/2016
AS BUILT DETAILS		DATE



MAIN STREET

SCALE:
1"= 50' HORIZ.
1"= 10' VERT.

NOTES:

1. INSERT SHORT VERTICAL CURVES (10' - 20') AT VERTICAL PI'S, AS DIRECTED, TO ACHEIVE A SMOOTH PROFILE.

REVISIONS AFTER PROPOSAL			
NUMBER	DATE	STATION	STATION	DESCRIPTION

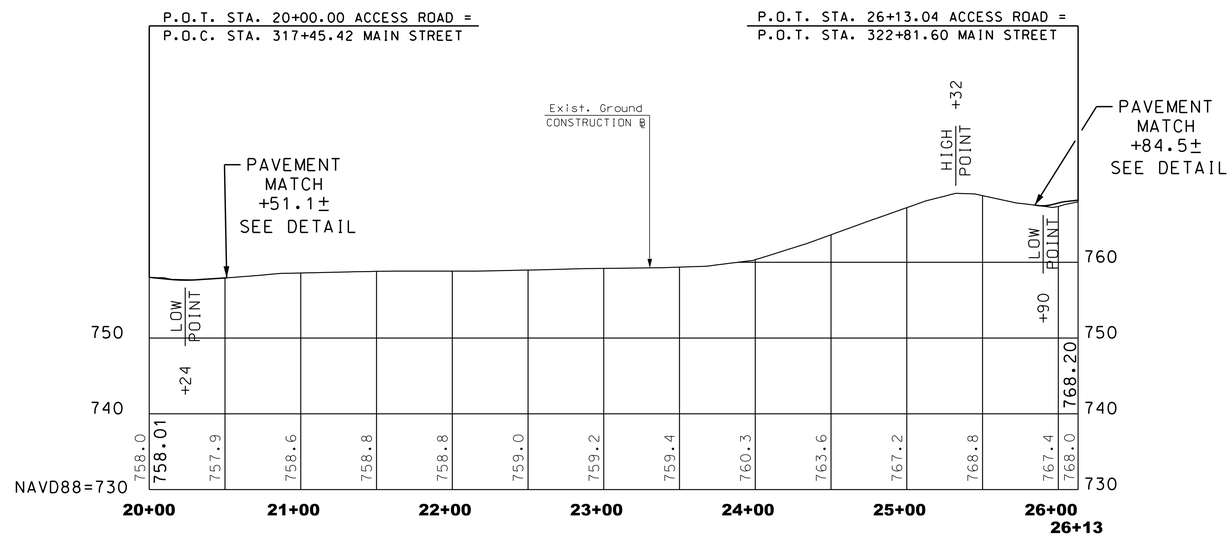
SDR PROCESSED		DATE
NEW DESIGN	DRH/CAC	DATE 10/ 2016
SHEET CHECKED	CAC	DATE 12/2016
AS BUILT DETAILS		DATE

STATE OF NEW HAMPSHIRE

DEPARTMENT OF TRANSPORTATION ∘ BUREAU OF HIGHWAY DESIGN

PROFILE
MAIN STREET

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
12967bpro_mcym	12967B	14	27



ACCESS ROAD

SCALE:
1"= 50' HORIZ.
1"= 10' VERT.

FOR INFORMATION ONLY
NO CHANGE TO ACCESS ROAD PROFILE

REVISIONS AFTER PROPOSAL

NUMBER	DATE	STATION	DESCRIPTION

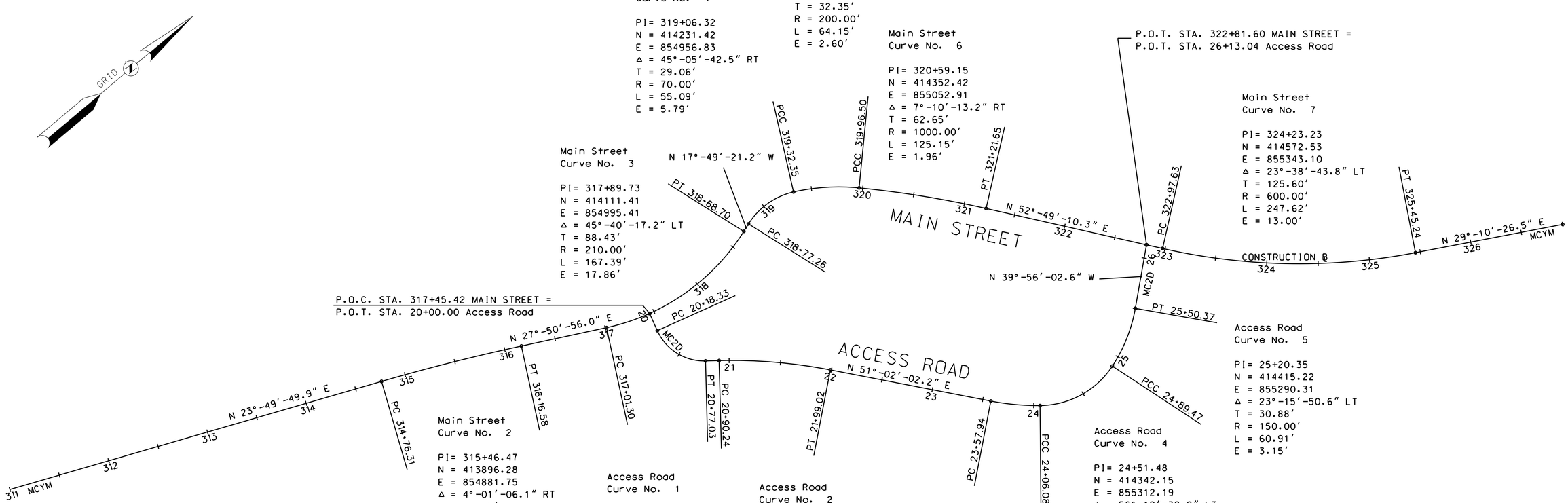
SDR PROCESSED	JJN	DATE 6/2016
NEW DESIGN	DRH	DATE 9/2016
SHEET CHECKED	CAC	DATE 12/2016
AS BUILT DETAILS		DATE

STATE OF NEW HAMPSHIRE

DEPARTMENT OF TRANSPORTATION ∘ BUREAU OF HIGHWAY DESIGN

PROFILE
ACCESS ROAD

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
12967BPROF_MC2D	12967B	15	27



P.O.C. STA. 317+45.42 MAIN STREET =
P.O.T. STA. 20+00.00 Access Road

P.O.T. STA. 322+81.60 MAIN STREET =
P.O.T. STA. 26+13.04 Access Road

Main Street
Curve No. 3

PI= 317+89.73
N = 414111.41
E = 854995.41
Δ = 45°-40'-17.2" LT
T = 88.43'
R = 210.00'
L = 167.39'
E = 17.86'

Main Street
Curve No. 4

PI= 319+06.32
N = 414231.42
E = 854956.83
Δ = 45°-05'-42.5" RT
T = 29.06'
R = 70.00'
L = 55.09'
E = 5.79'

Main Street
Curve No. 5

PI= 319+64.70
N = 414286.01
E = 854984.97
Δ = 18°-22'-37.3" RT
T = 32.35'
R = 200.00'
L = 64.15'
E = 2.60'

Main Street
Curve No. 6

PI= 320+59.15
N = 414352.42
E = 855052.91
Δ = 7°-10'-13.2" RT
T = 62.65'
R = 1000.00'
L = 125.15'
E = 1.96'

Main Street
Curve No. 7

PI= 324+23.23
N = 414572.53
E = 855343.10
Δ = 23°-38'-43.8" LT
T = 125.60'
R = 600.00'
L = 247.62'
E = 13.00'

Main Street
Curve No. 2

PI= 315+46.47
N = 413896.28
E = 854881.75
Δ = 4°-01'-06.1" RT
T = 70.16'
R = 2000.00'
L = 140.27'
E = 1.23'

Access Road
Curve No. 1

PI= 20+51.59
N = 414060.03
E = 855020.11
Δ = 67°-15'-33.7" LT
T = 33.26'
R = 50.00'
L = 58.69'
E = 10.05'

Access Road
Curve No. 2

PI= 21+44.85
N = 414139.05
E = 855083.12
Δ = 12°-27'-55.5" RT
T = 54.61'
R = 500.00'
L = 108.78'
E = 2.97'

Access Road
Curve No. 3

PI= 23+69.30
N = 414288.51
E = 855267.92
Δ = 5°-25'-18.4" LT
T = 11.36'
R = 240.00'
L = 22.71'
E = 0.27'

Access Road
Curve No. 4

PI= 24+51.48
N = 414342.15
E = 855312.19
Δ = 56°-12'-39.9" LT
T = 45.40'
R = 85.00'
L = 83.39'
E = 11.36'

Access Road
Curve No. 5

PI= 25+20.35
N = 414415.22
E = 855290.31
Δ = 23°-15'-50.6" LT
T = 30.88'
R = 150.00'
L = 60.91'
E = 3.15'

NUMBER	DATE	STATION	STATION	DESCRIPTION

REVISIONS AFTER PROPOSAL

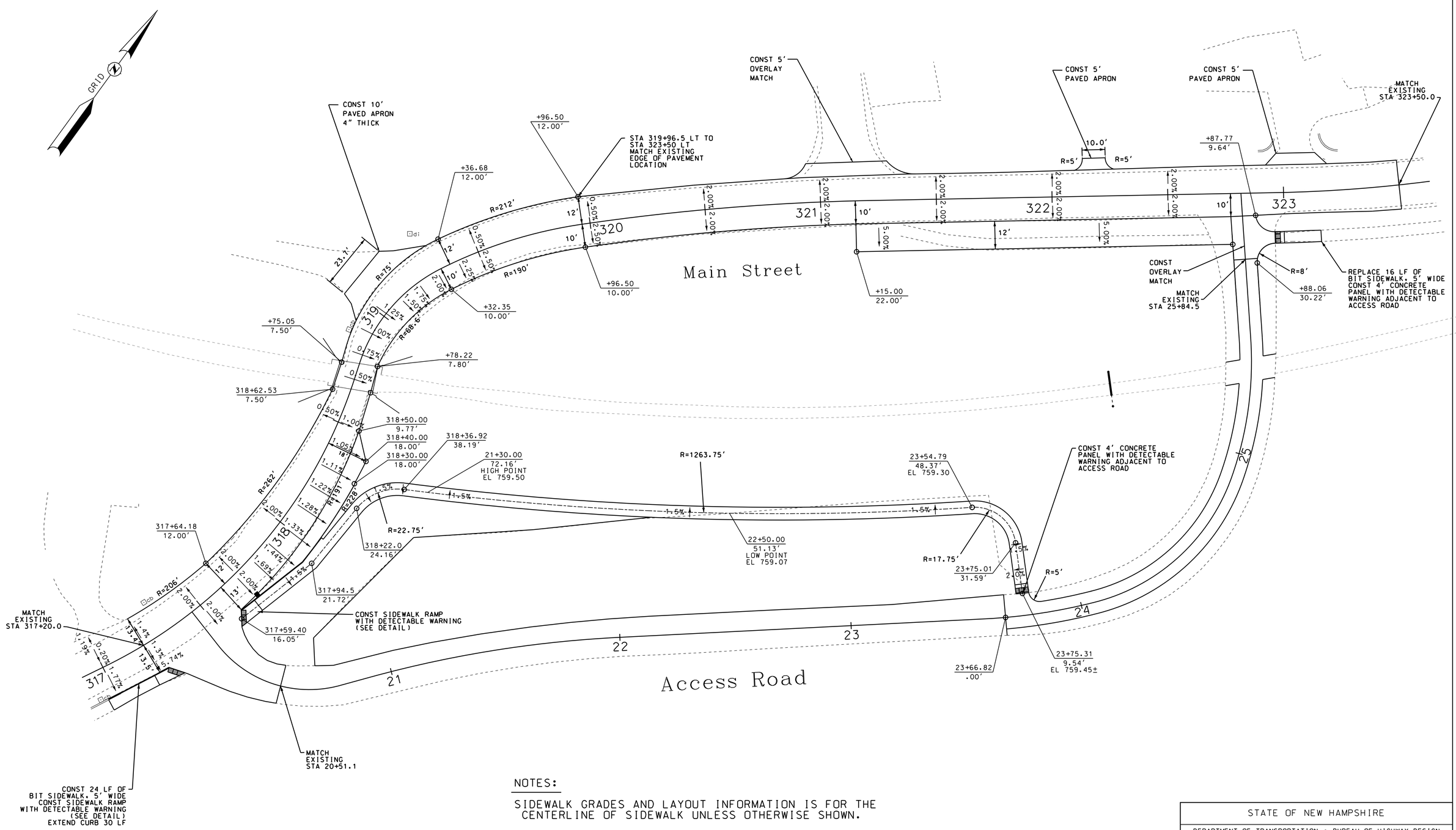
SDR PROCESSED	XX	DATE XX	
NEW DESIGN	DRH	DATE 9/2016	
SHEET CHECKED	CAC	DATE 12/2016	
AS BUILT DETAILS		DATE	

STATE OF NEW HAMPSHIRE

DEPARTMENT OF TRANSPORTATION ∘ BUREAU OF HIGHWAY DESIGN

ALIGNMENT LAYOUT

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
12967B Align	12967B	16	27



NOTES:

SIDEWALK GRADES AND LAYOUT INFORMATION IS FOR THE CENTERLINE OF SIDEWALK UNLESS OTHERWISE SHOWN.

20 0 20 40
SCALE IN FEET

STATE OF NEW HAMPSHIRE

DEPARTMENT OF TRANSPORTATION ∘ BUREAU OF HIGHWAY DESIGN

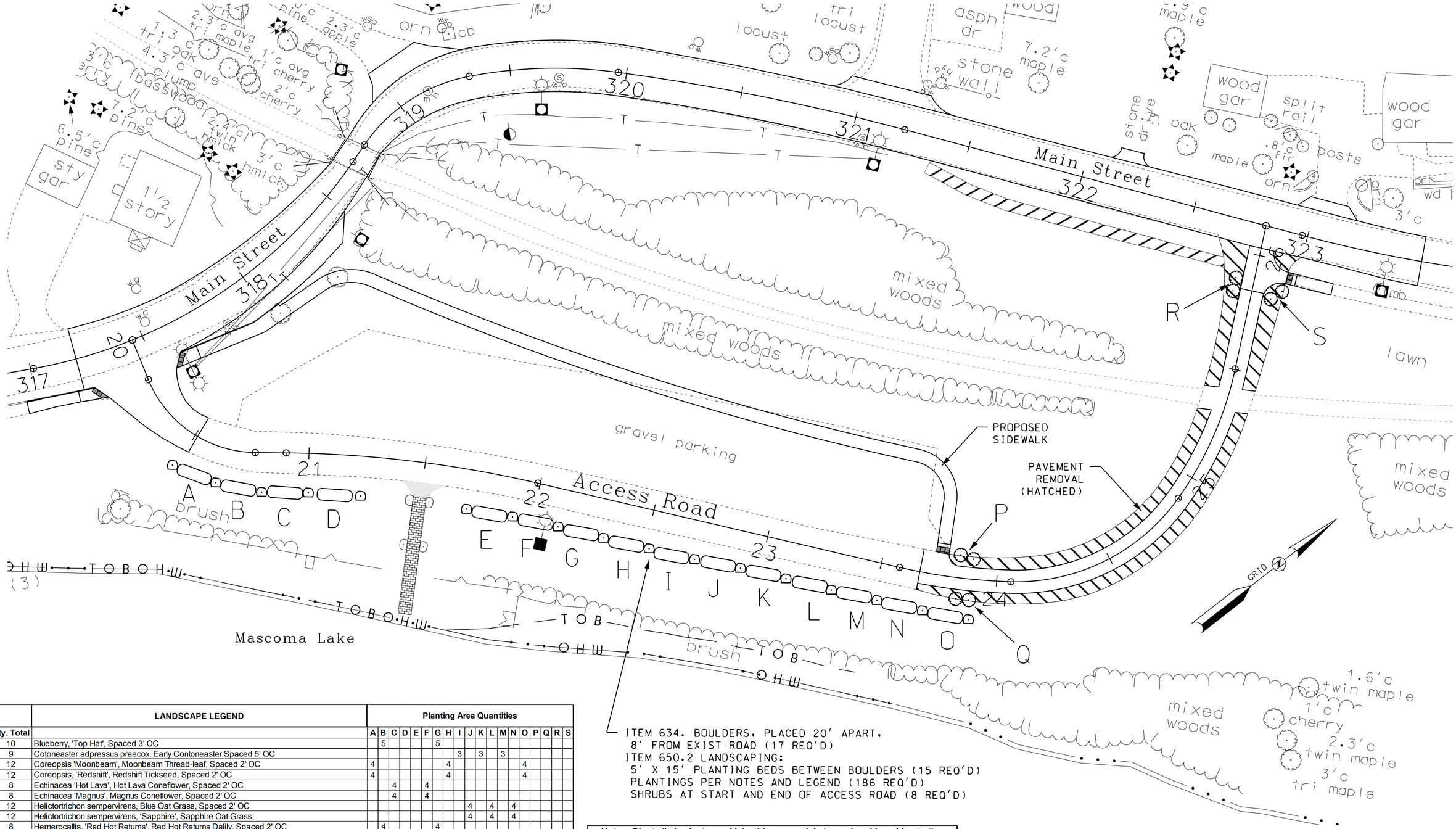
GRADING PLAN

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
12967B Gra	12967B	17	27

REVISIONS AFTER PROPOSAL

NUMBER	DATE	STATION	STATION	DESCRIPTION

SDR PROCESSED	XX	DATE XX
NEW DESIGN	DRH	DATE 10/2016
SHEET CHECKED	CAC	DATE 12/2016
AS BUILT DETAILS		DATE



ITEM 634. BOULDERS, PLACED 20' APART,
8' FROM EXIST ROAD (17 REQ'D)
ITEM 650.2 LANDSCAPING:
5' X 15' PLANTING BEDS BETWEEN BOULDERS (15 REQ'D)
PLANTINGS PER NOTES AND LEGEND (186 REQ'D)
SHRUBS AT START AND END OF ACCESS ROAD (8 REQ'D)

Qty. Total	LANDSCAPE LEGEND	Planting Area Quantities																
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
10	Blueberry, 'Top Hat', Spaced 3' OC		5					5												
9	Cotoneaster adpressus praecox, Early Contoneaster Spaced 5' OC									3		3		3						
12	Coreopsis 'Moonbeam', Moonbeam Thread-leaf, Spaced 2' OC	4							4							4				
12	Coreopsis, 'Redshift', Redshift Tickseed, Spaced 2' OC	4							4							4				
8	Echinacea 'Hot Lava', Hot Lava Coneflower, Spaced 2' OC			4			4													
8	Echinacea 'Magnus', Magnus Coneflower, Spaced 2' OC			4			4													
12	Helictortrichon sempervirens, Blue Oat Grass, Spaced 2' OC										4		4		4					
12	Helictortrichon sempervirens, 'Sapphire', Sapphire Oat Grass,										4		4		4					
8	Hemerocallis, 'Red Hot Returns', Red Hot Returns Dalily, Spaced 2' OC		4					4												
8	Hemerocallis, 'Stephanie Returns', Stephanie Returns Dalily, Spaced 2' OC		4					4												
8	Myrica pensylvanica 'Northern Bayberry', Spaced 6' OC																2	2	2	2
12	Phlox paniculatat, 'Shortwood Garden', Shortwood Garden Phlox, Spaced 2' OC									4		4		4						
15	Physocarpus opulifolius, 'Little Devil', Little Devil Ninebark, Spaced 5' OC	5							5							5				
12	Rosa Knockout 'Double', (Red) Spaced 3' OC			3	3	3	3													
4	Rosa Knockout 'Sunny', Spaced 3' OC			2			2													
4	Rosa Knockout 'White Out', Spaced 3' OC				2	2														
16	Salvia, 'Marcus', Marcus sage, Spaced 2' OC				8	8														
12	Sedum spectablile, 'Neon', Neon Stonecrop, Spaced 2' OC									4		4		4						
12	Weigela florida, 'Minuet', Minuet Weigela, Spaced 3' OC										4		4		4					

Notes: Plant all shrubs toward lakeside, perennials toward parking side starting with planting area "A" and ending with planting area at "O"

Roses: Plant alternating colors in beds C,D,E,& F

Perennials: Plant in groups of the same species

Mulch all beds to a 4" depth

20 0 20 40
SCALE IN FEET

STATE OF NEW HAMPSHIRE

LANDSCAPING PLAN

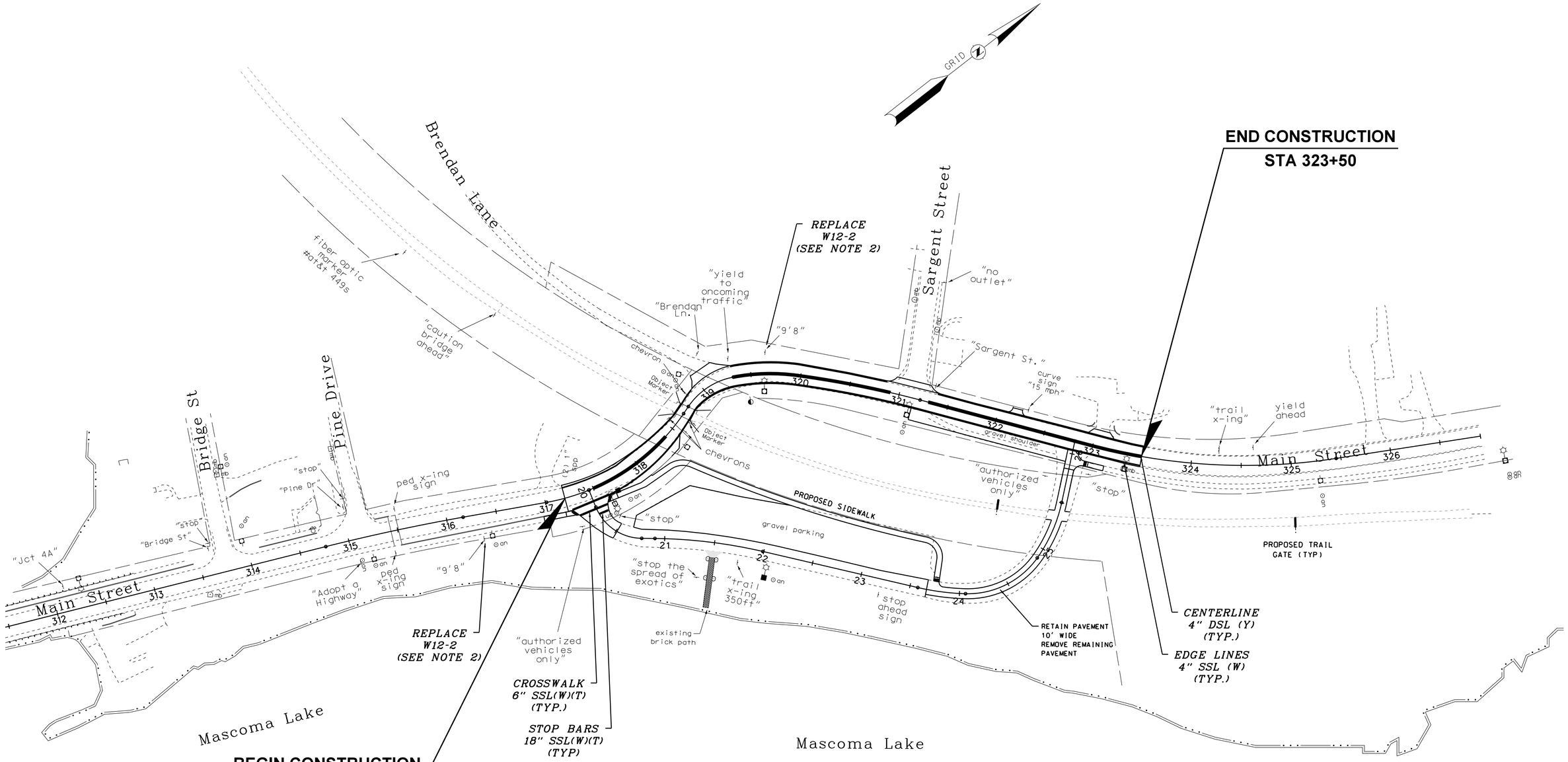
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
12967B Lnd20	12967B	18	27

REVISIONS AFTER PROPOSAL

NUMBER	DATE	STATION	STATION	DESCRIPTION

SDR PROCESSED XX DATE XX
NEW DESIGN BLR DATE 4/2016
SHEET CHECKED CAC DATE 12/2016

AS BUILT DETAILS DATE



SIGNING NOTES

1. INSTALL ONE STEEL U-CHANNEL POST AND ONE 4x4 WOOD POST ON THE TRAIL IN ADVANCE OF EACH TRAIL GATE SUBSIDIARY TO ITEM 607.9910. SEE GATE DETAIL FOR MORE INFORMATION.

2. VERIFY CLEARANCE TO FINAL WEARING COURSE PRIOR TO ORDERING BRIDGE CLEARANCE SIGNS.

PAVEMENT MARKING NOTES

1. ALL SYMBOLS, WORDS, TRANSVERSE MARKINGS (STOP BARS, CROSSWALK LINES, AND RAILROAD SYMBOLS), LANE LINES AND ALL OTHER MARKINGS NOTED WITH (T) SHALL BE THERMOPLASTIC.

2. THE CONTRACTOR SHALL CONTACT THE NHDOT BUREAU OF TRAFFIC AT LEAST ONE WEEK PRIOR TO PLACING FINAL PAVEMENT MARKINGS. SEE POW FOR CONTACT INFO.

4. THE PROPOSED PAVEMENT MARKING LAYOUT SHALL CONFORM TO THE CURRENT EDITION OF THE MUTCD AND NHDOT STANDARD PLANS.

5. PAVEMENT MARKINGS SHALL EXTEND BEYOND PROJECT PAVING LIMITS TO OVERLAP EXISTING MARKINGS AS DIRECTED.

50 0 50 100
SCALE IN FEET

STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN

SIGNING AND MARKING

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
12967B Psm	12967B	19	27

REVISIONS AFTER PROPOSAL

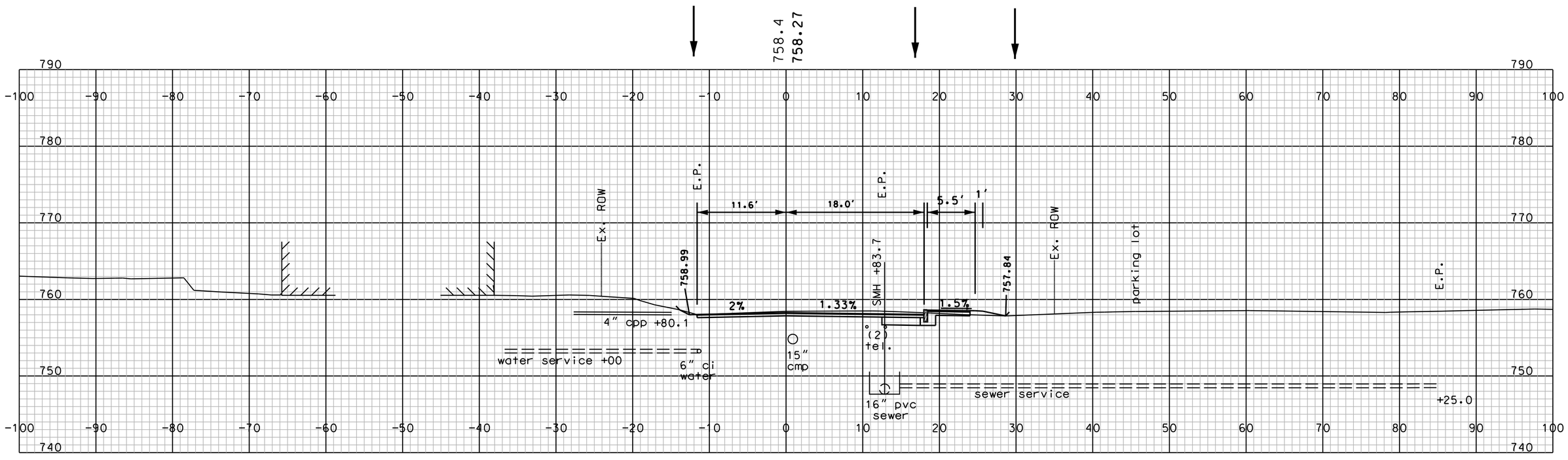
NUMBER	DATE	STATION	STATION	DESCRIPTION

SDR PROCESSED	XX	DATE	XX
NEW DESIGN	DRH/KGS	DATE	12/2016
SHEET CHECKED	CAC	DATE	12/2016
AS BUILT DETAILS		DATE	

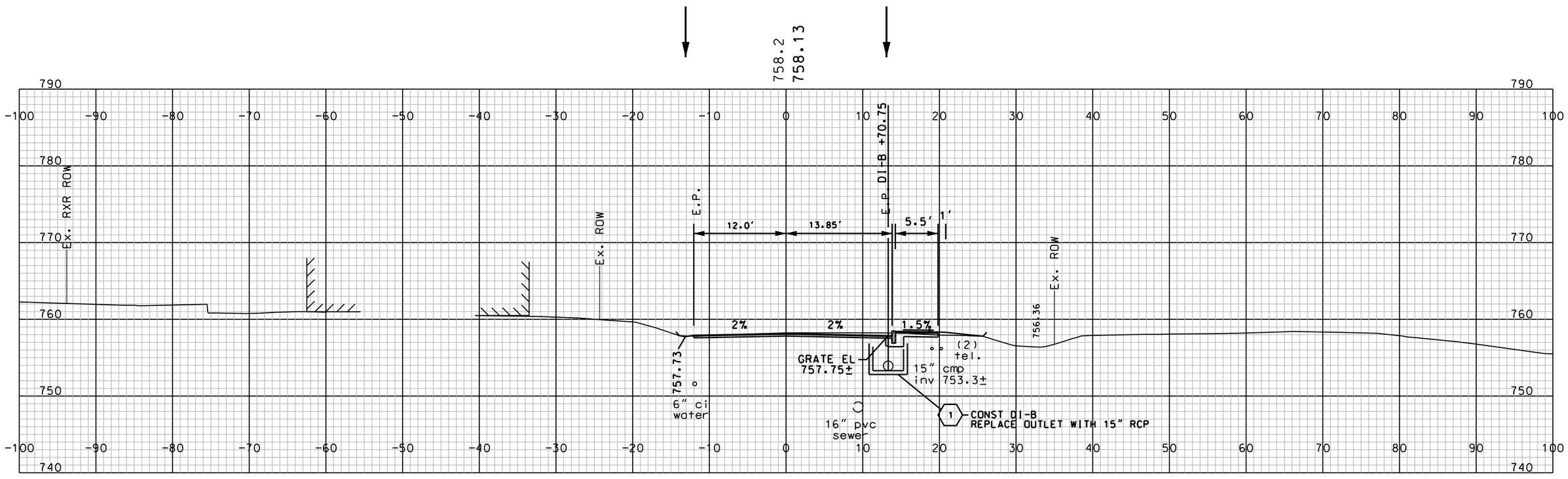
SDR PROCESSED	DRH	DATE	2016
NEW DESIGN	DRH/CAC	DATE	2016
SHEET CHECKED	CAC	DATE	12/2016
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

NUMBER	DATE	STATION	STATION	DESCRIPTION



STA. 318+00.00



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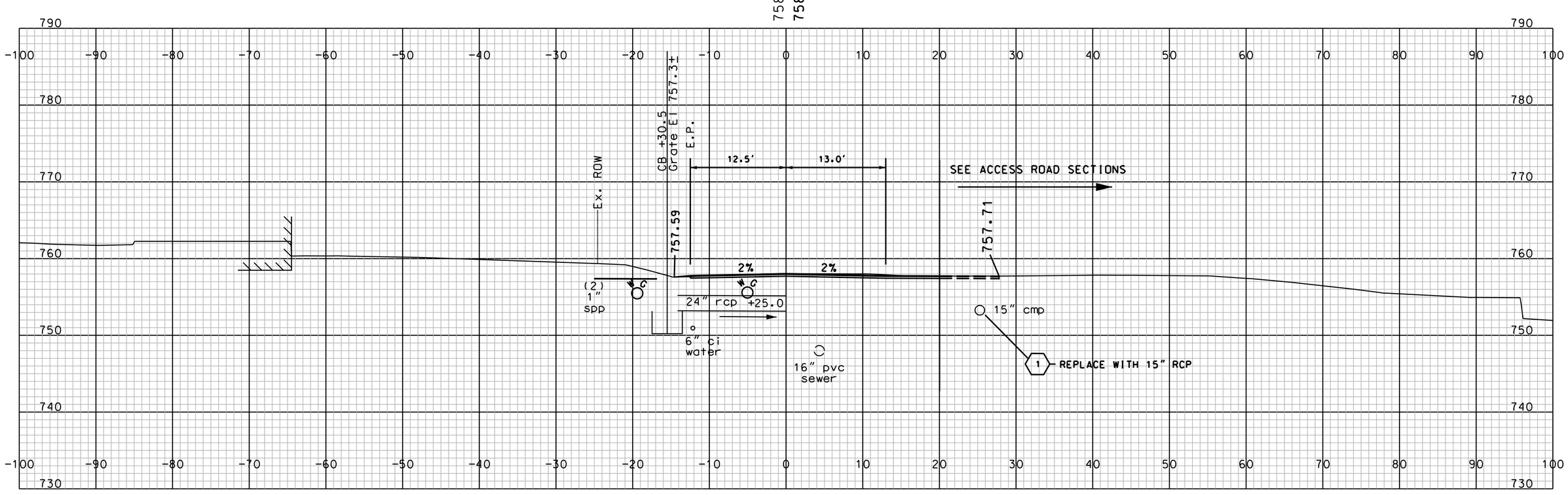

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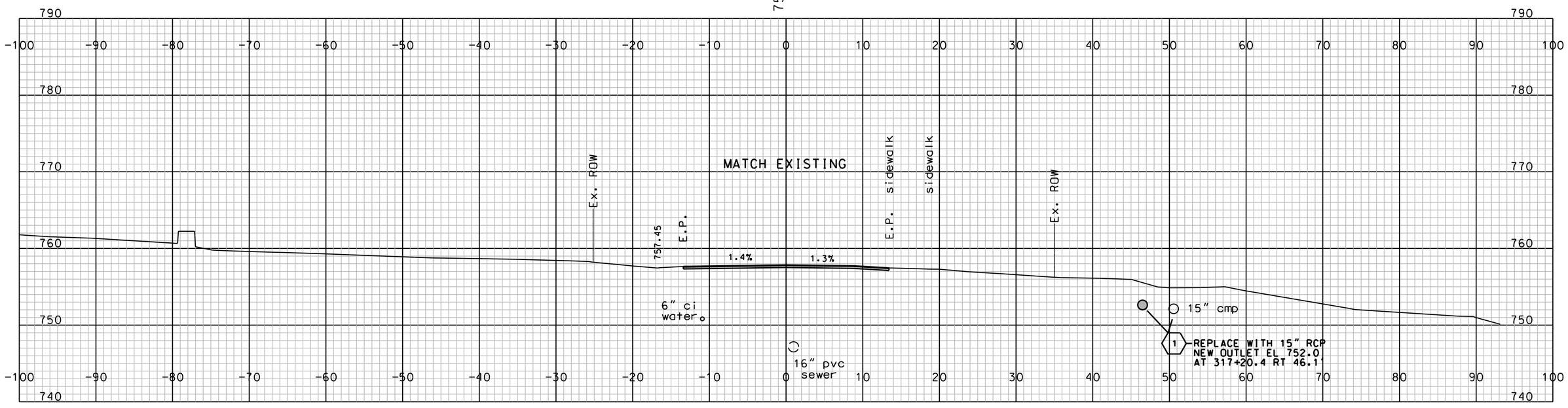


STA. 317+20.000

MAIN STREET Sheet 1 of 4

SHEET TOTALS

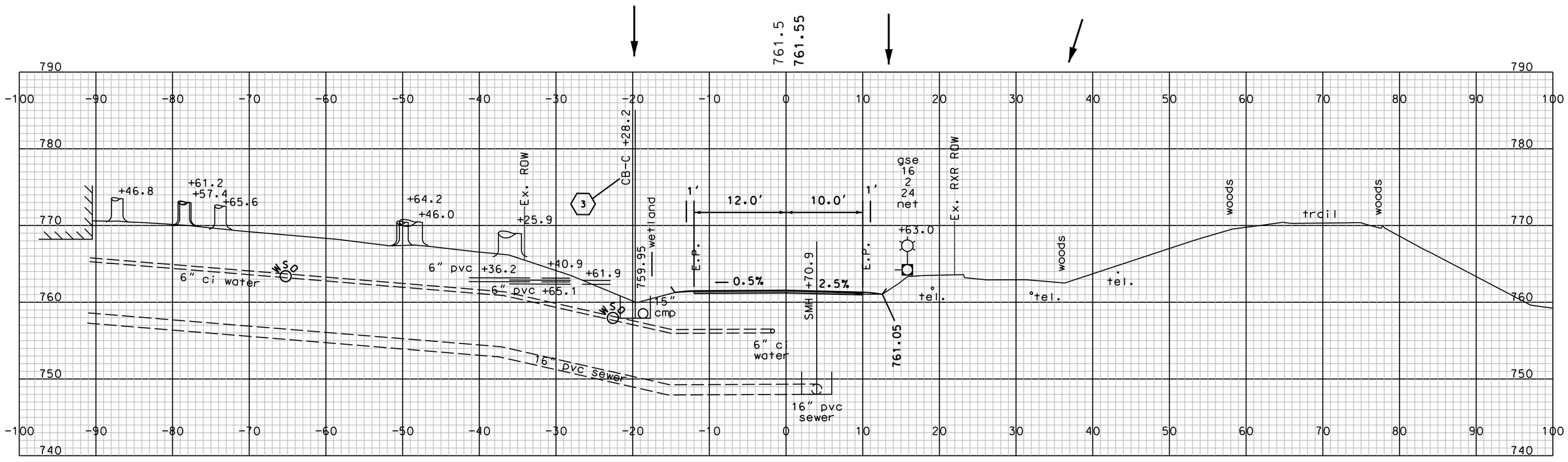
COMMON EXCAV.	97.7 C.Y.	ROCK EXCAV.	– C.Y.
FILL	2.9 C.Y.	MUCK EXCAV.	– C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
12967BMCYM-XS	12967B	20	27

SDR PROCESSED	DRH	DATE	2016
NEW DESIGN	DRH/CAC	DATE	2016
SHEET CHECKED	CAC	DATE	12/2016
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

NUMBER	DATE	STATION	STATION	DESCRIPTION



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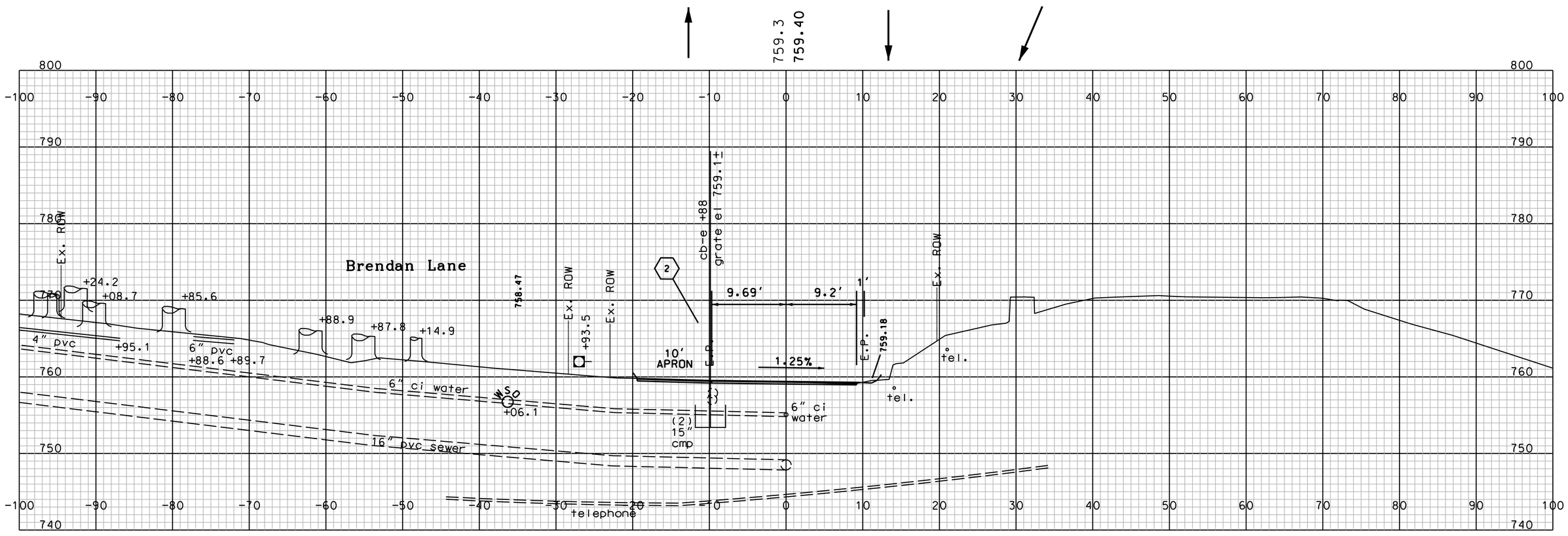

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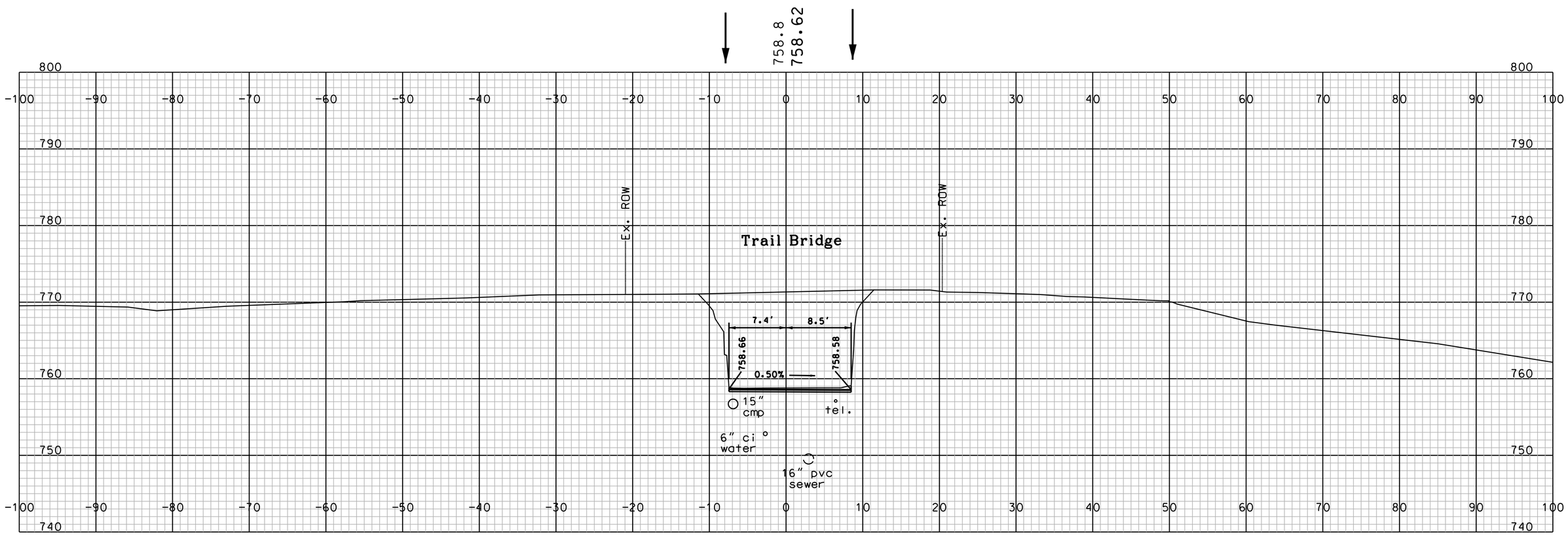

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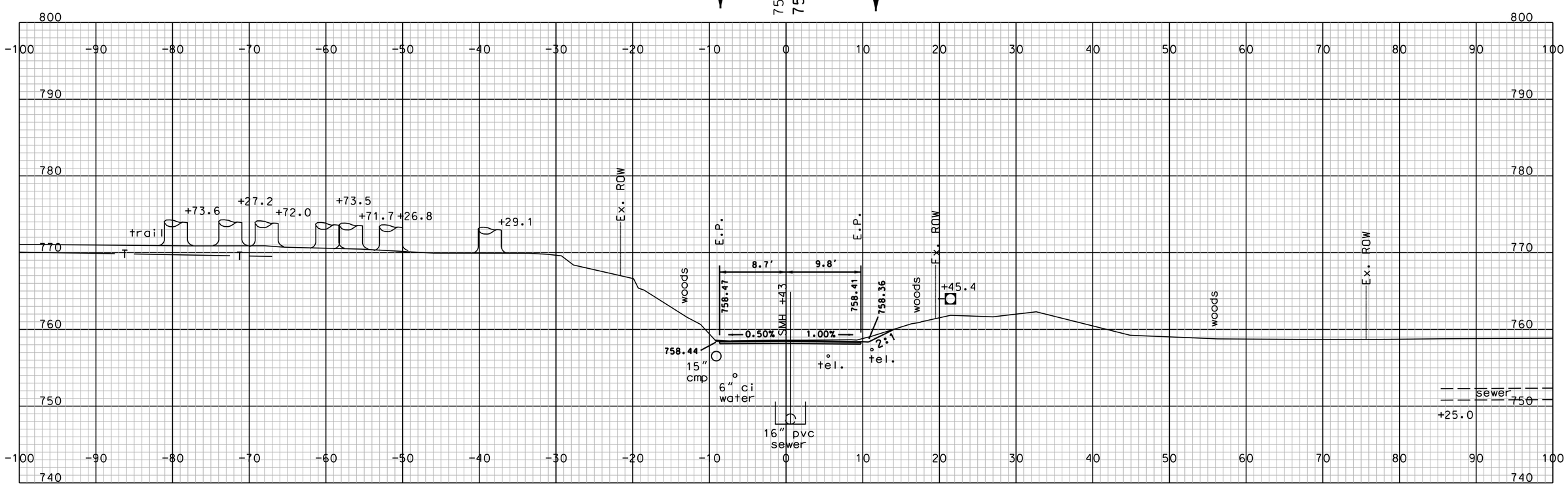


STA. 318+50.00

MAIN STREET

Sheet 2 of 4

SHEET TOTALS

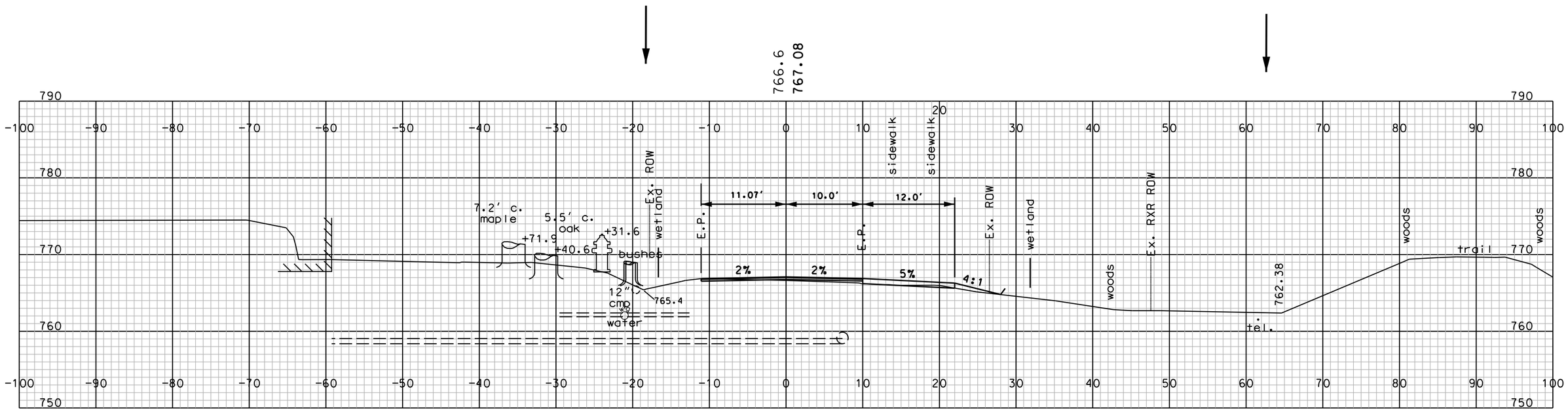
COMMON EXCAV.	49.3 C.Y.	ROCK EXCAV.	- C.Y.
FILL	0 C.Y.	MUCK EXCAV.	- C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
12967BMCYM-XS	12967B	21	27

SDR PROCESSED	DRH	DATE	2016
NEW DESIGN	DRH/CAC	DATE	2016
SHEET CHECKED	CAC	DATE	12/2016
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

NUMBER	DATE	STATION	STATION	DESCRIPTION



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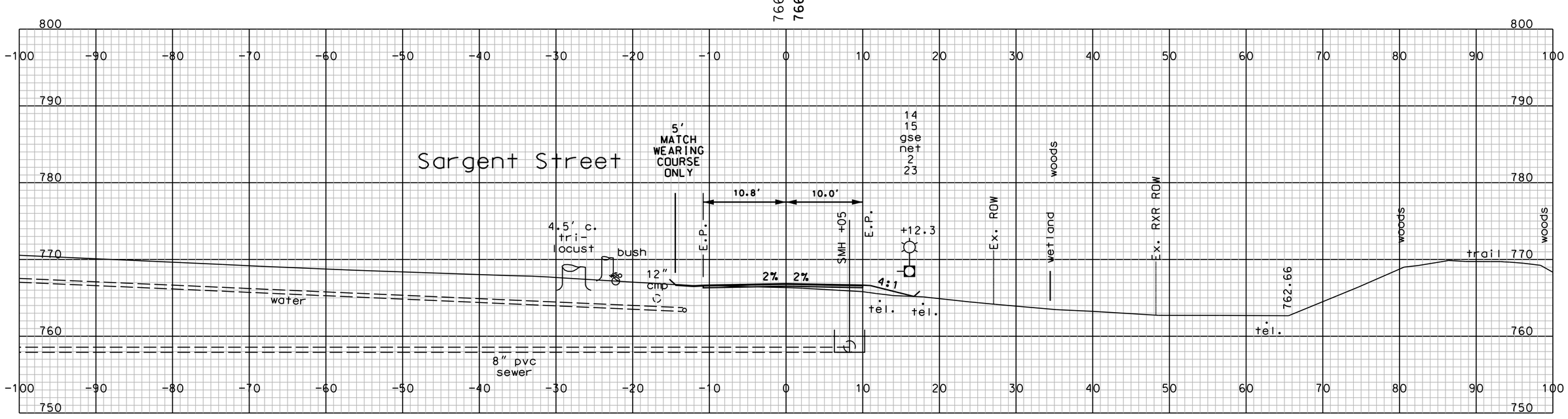

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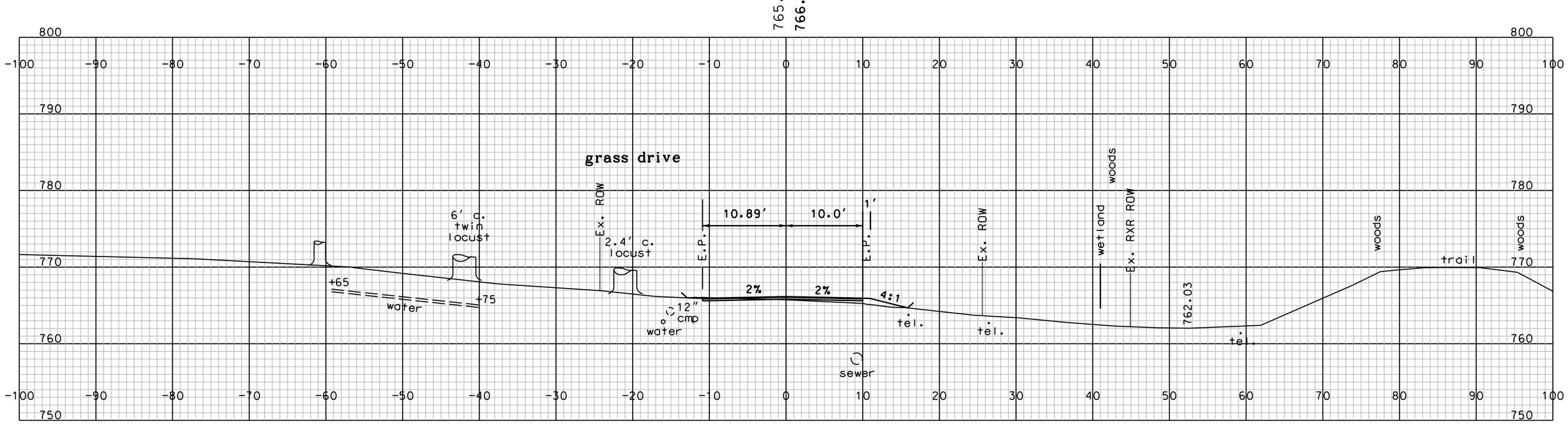

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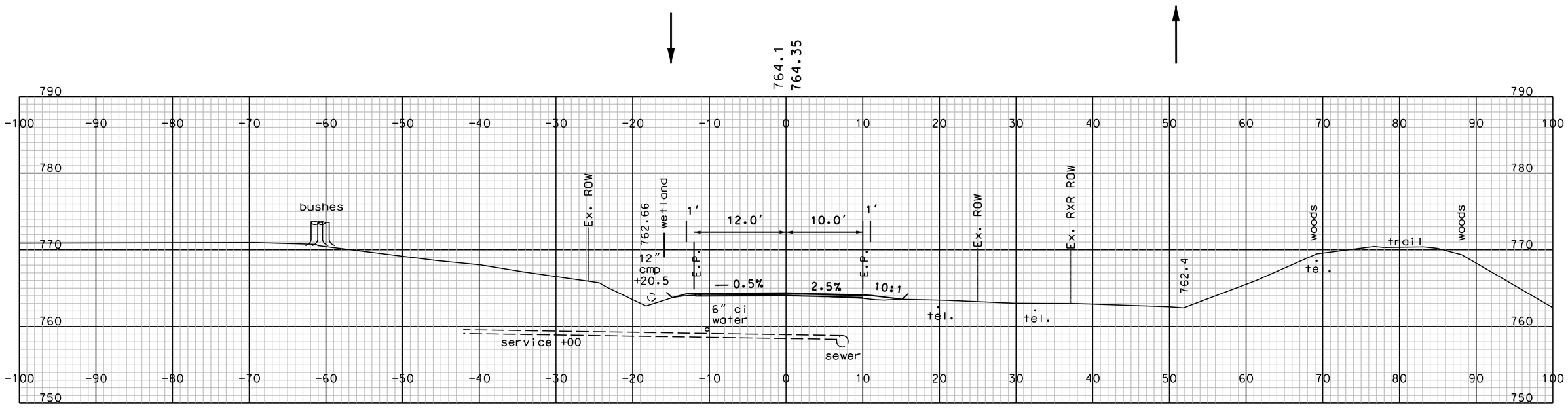


STA. 320+00.00

MAIN STREET

Sheet 3 of 4

SHEET TOTALS

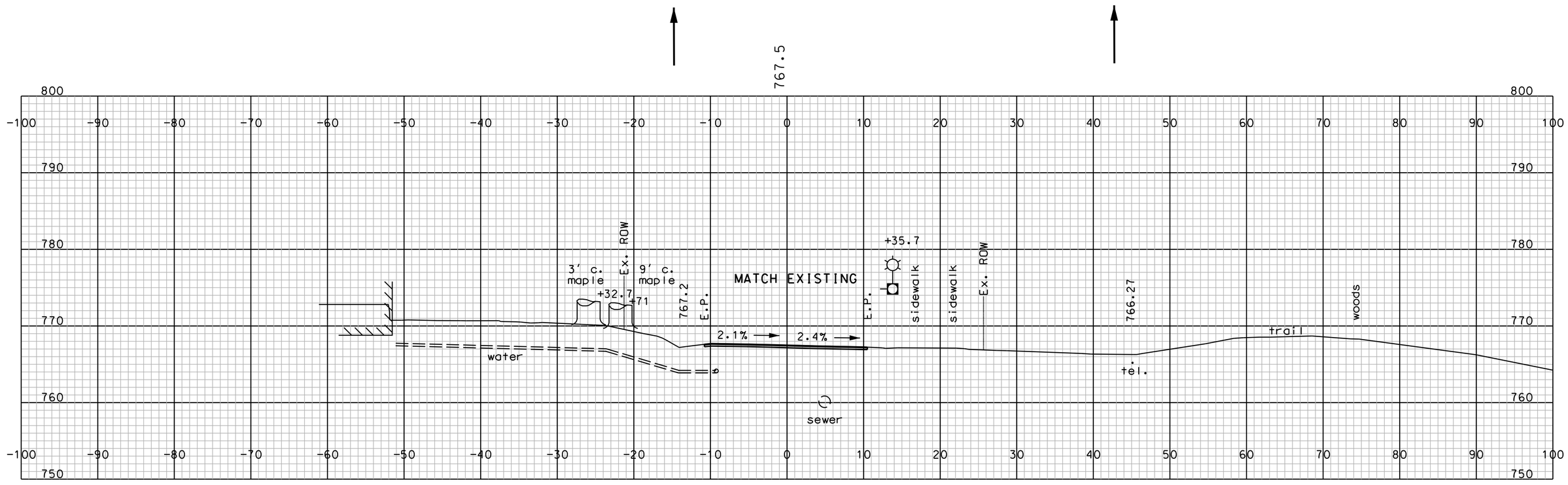
COMMON EXCAV.	72.5 C.Y.	ROCK EXCAV.	- C.Y.
FILL	16.3 C.Y.	MUCK EXCAV.	- C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
12967BMCYM-XS	12967B	22	27

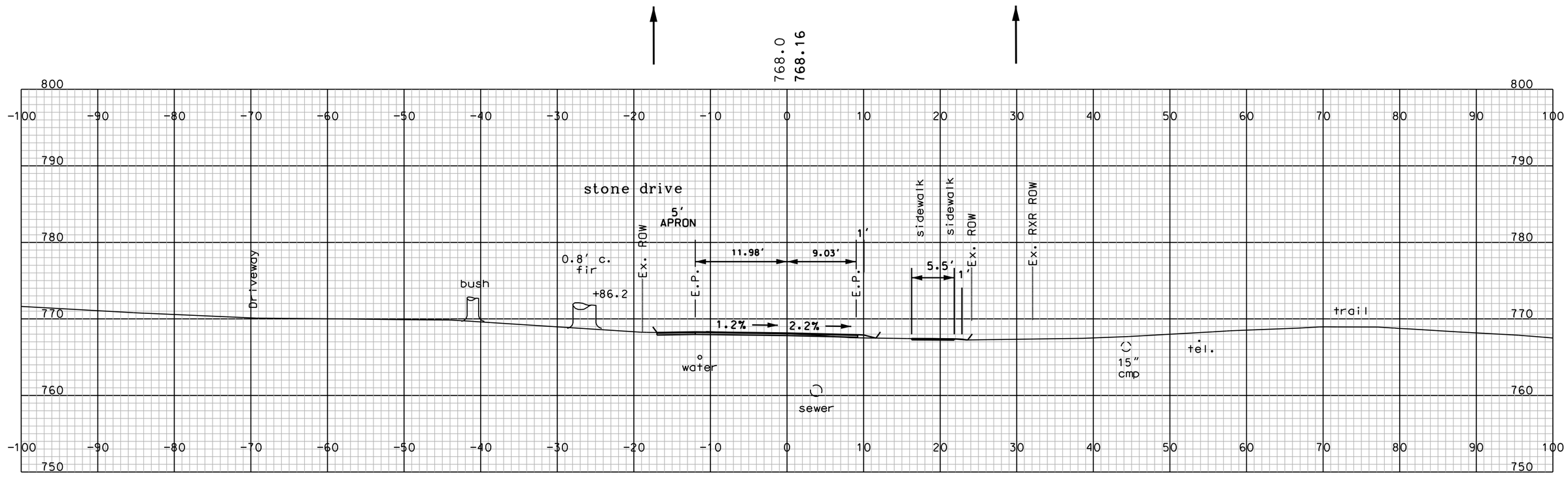
SDR PROCESSED	DRH	DATE	2016
NEW DESIGN	DRH/CAC	DATE	2016
SHEET CHECKED	CAC	DATE	12/2016
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

NUMBER	DATE	STATION	STATION	DESCRIPTION

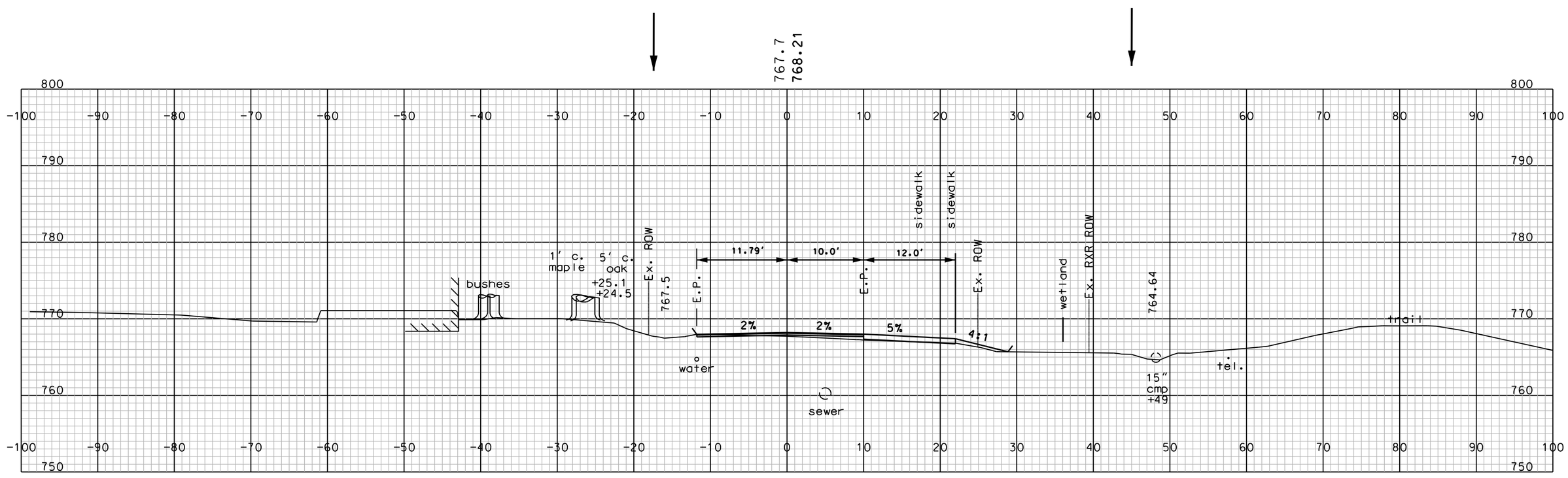


STA. 323+50.00

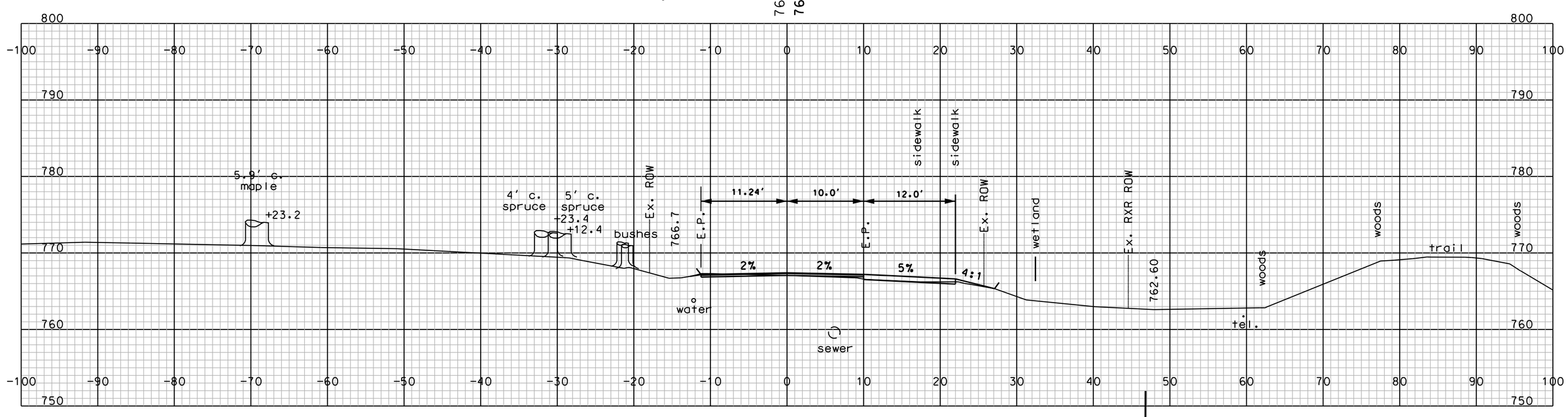


STA. 323+00.00

Access Road +81.6



STA. 322+50.00



STA. 322+00.00

MAIN STREET

Sheet 4 of 4

SHEET TOTALS

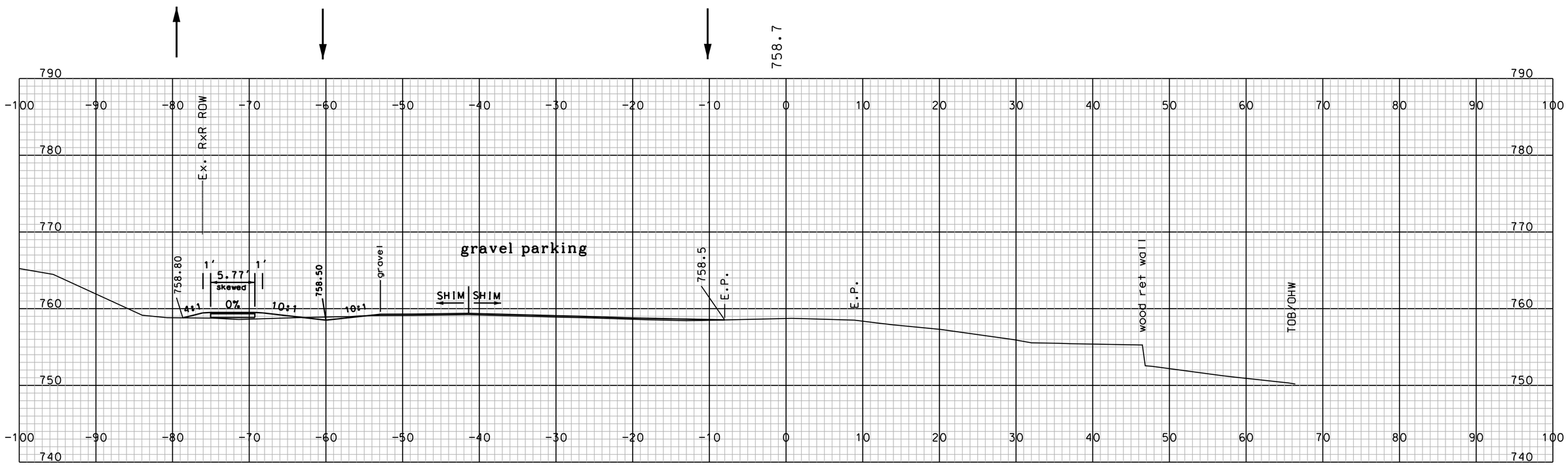
COMMON EXCAV.	70.7 C.Y.	ROCK EXCAV.	– C.Y.
FILL	0 C.Y.	MUCK EXCAV.	– C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
12967BMCYM-XS	12967B	23	27

SDR PROCESSED	DRH	DATE	2016
NEW DESIGN	DRH/CAC	DATE	12/2016
SHEET CHECKED	CAC	DATE	12/2016
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

NUMBER	DATE	STATION	STATION	DESCRIPTION



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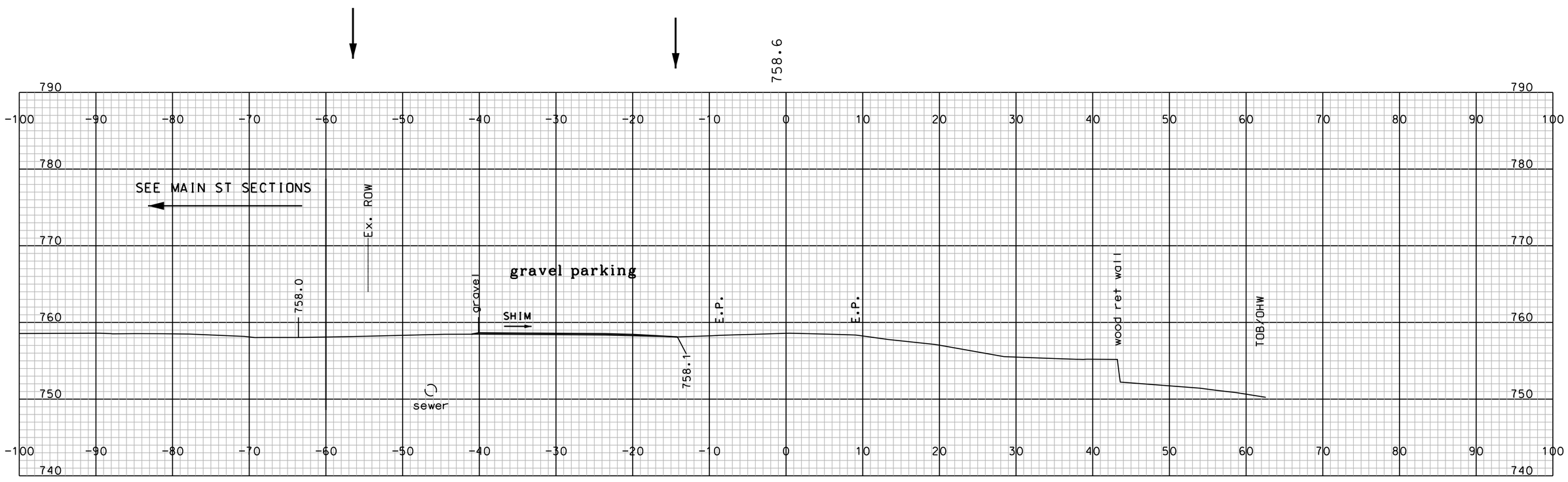

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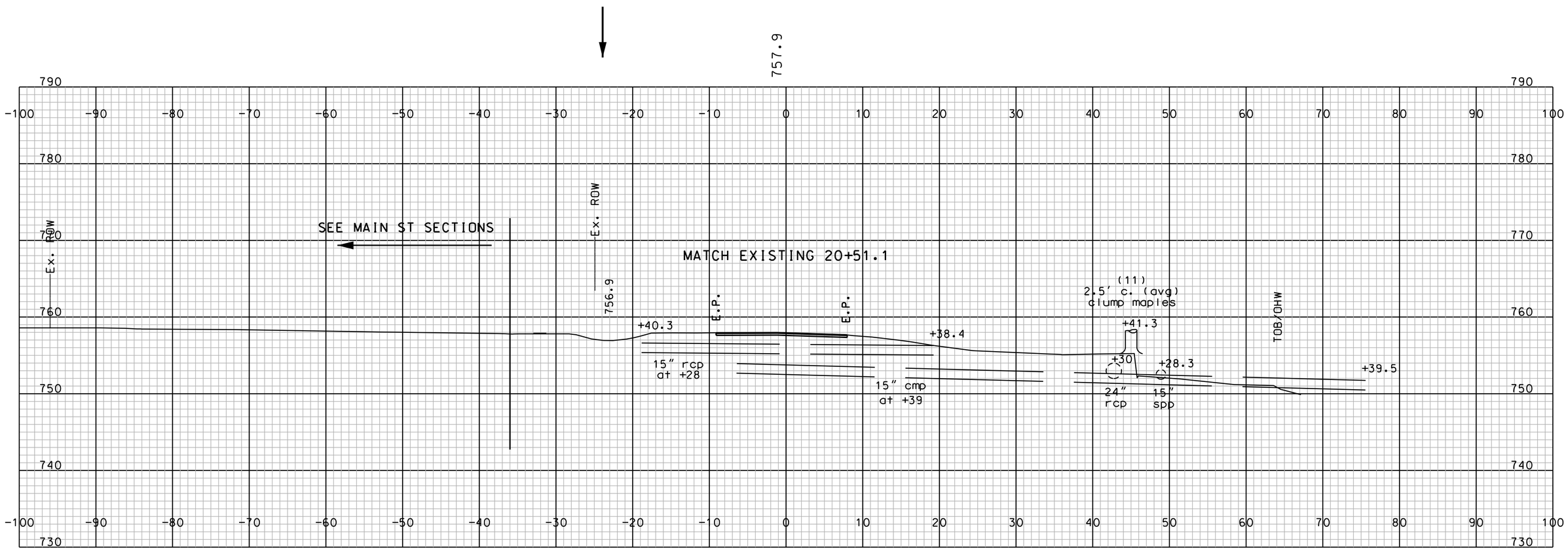
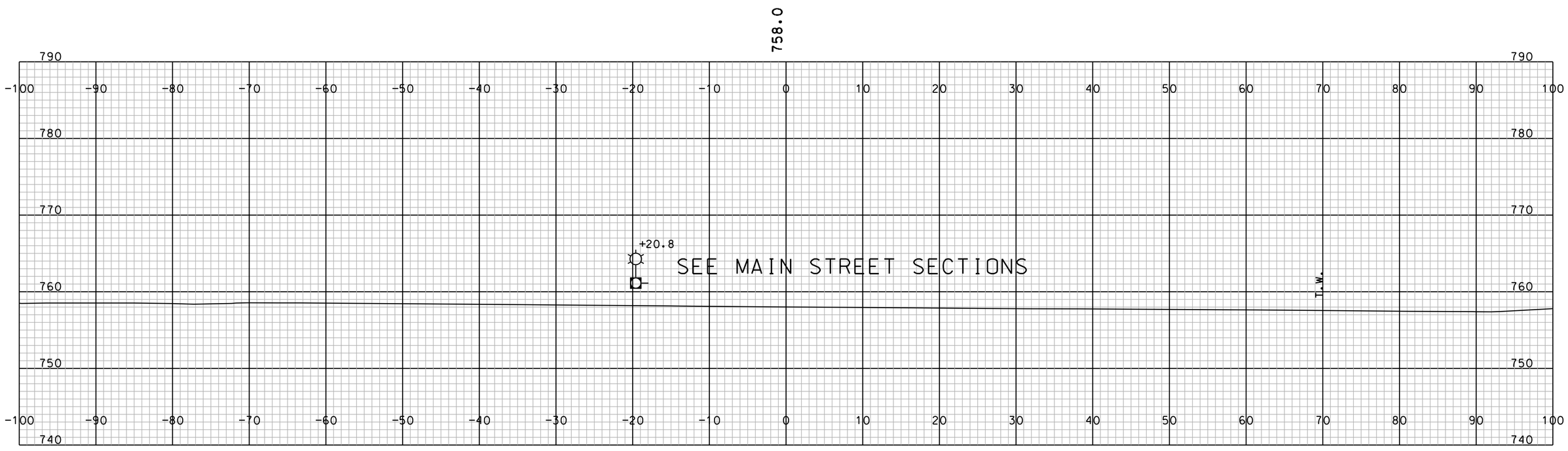


STA. 20+50.000



STA. 20+00.000

ACCESS ROAD Sheet 1 of 4

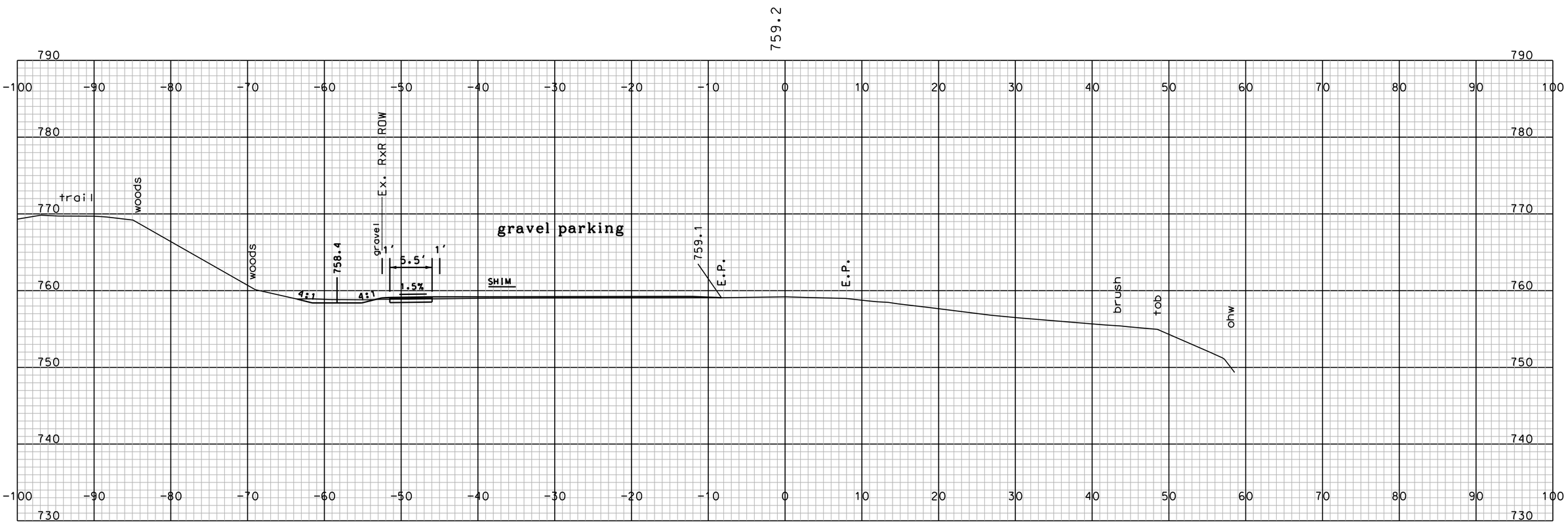
SHEET TOTALS			
COMMON EXCAV.	0.9 C.Y.	ROCK EXCAV.	– C.Y.
FILL	4.4 C.Y.	MUCK EXCAV.	– C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
12967BMC2D-XS	12967B	24	27

SDR PROCESSED	DRH	DATE	2016
NEW DESIGN	DRH/CAC	DATE	12/2016
SHEET CHECKED	CAC	DATE	12/2016
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

NUMBER	DATE	STATION	STATION	DESCRIPTION



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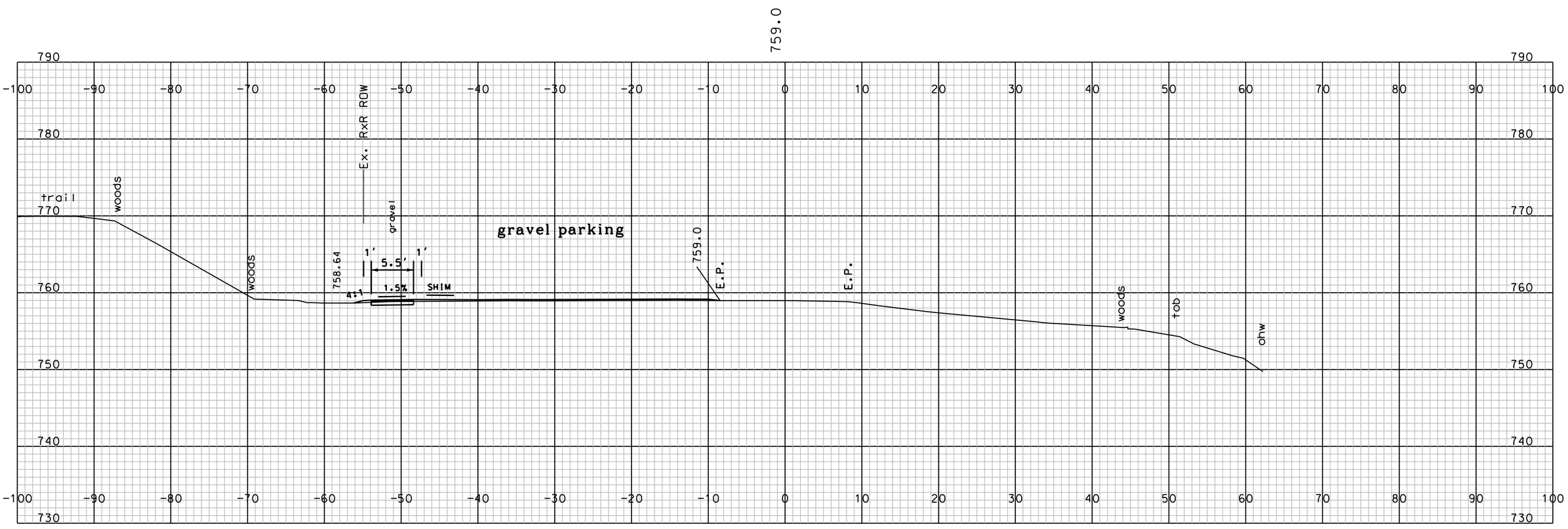

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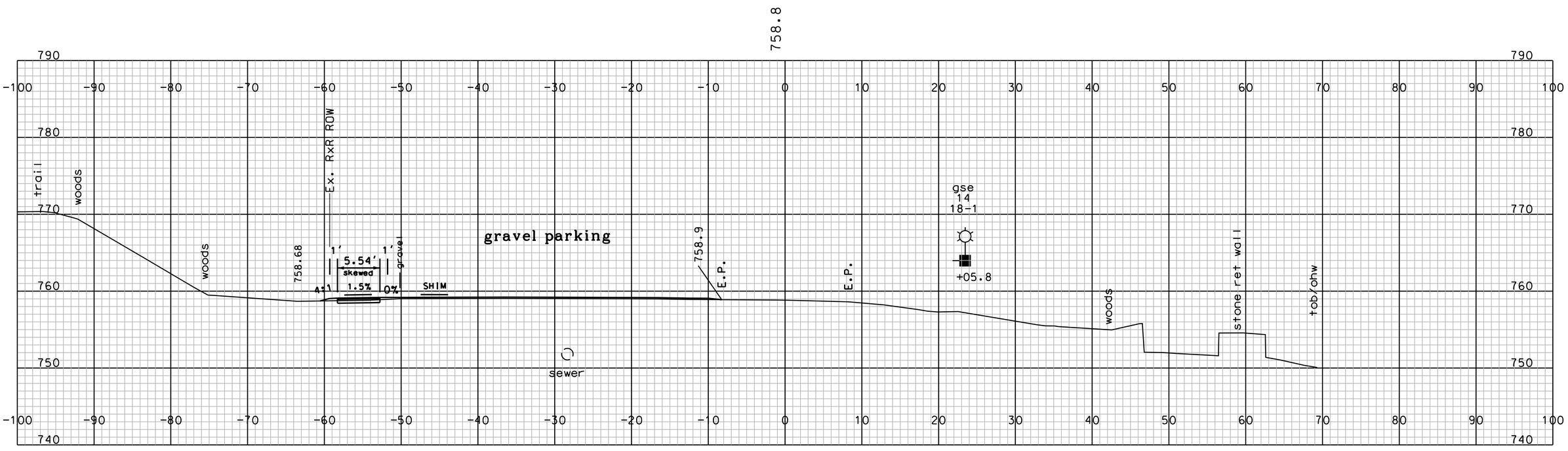

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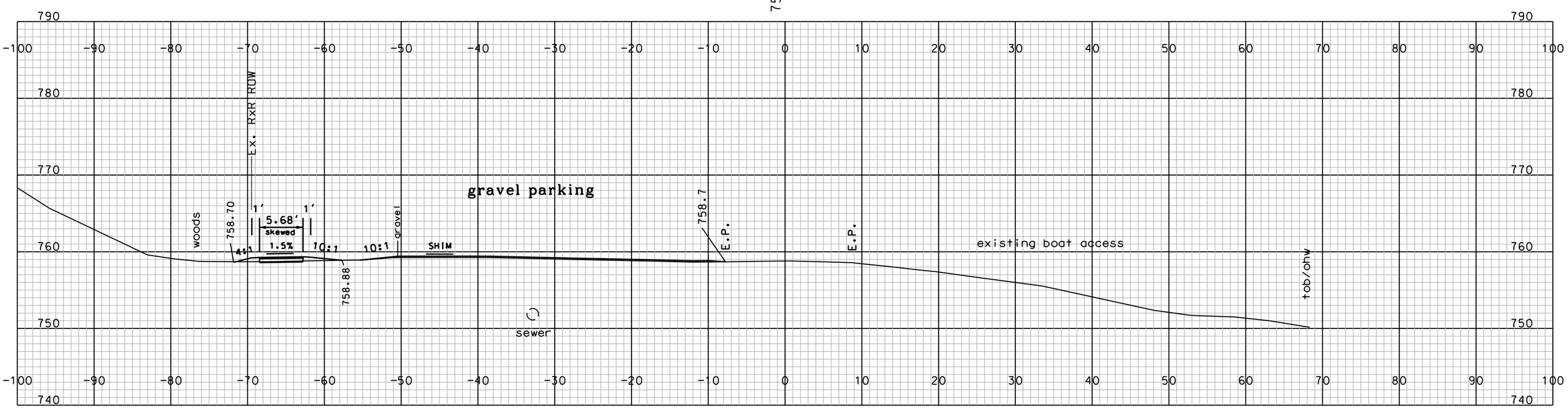


STA. 21+50.000

ACCESS ROAD Sheet 2 of 4

SHEET TOTALS

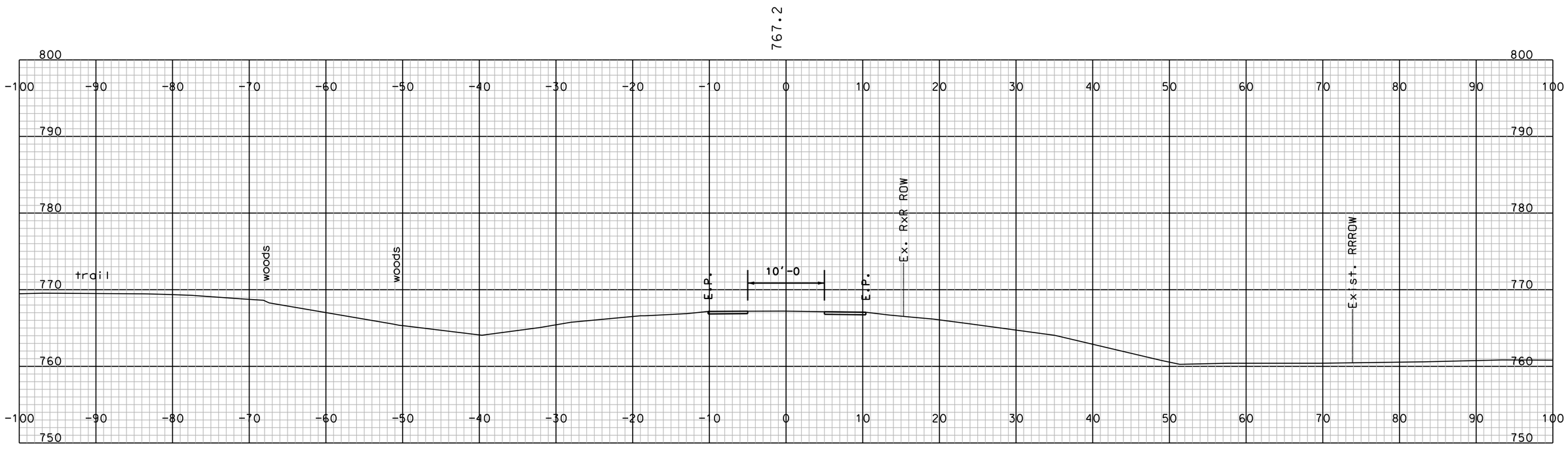
COMMON EXCAV.	14.7 C.Y.	ROCK EXCAV.	- C.Y.
FILL	6.3 C.Y.	MUCK EXCAV.	- C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
12967BMC2D-XS	12967B	25	27

SDR PROCESSED	DRH	DATE	2016
NEW DESIGN	DRH/CAC	DATE	12/2016
SHEET CHECKED	CAC	DATE	12/2016
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

NUMBER	DATE	STATION	STATION	DESCRIPTION



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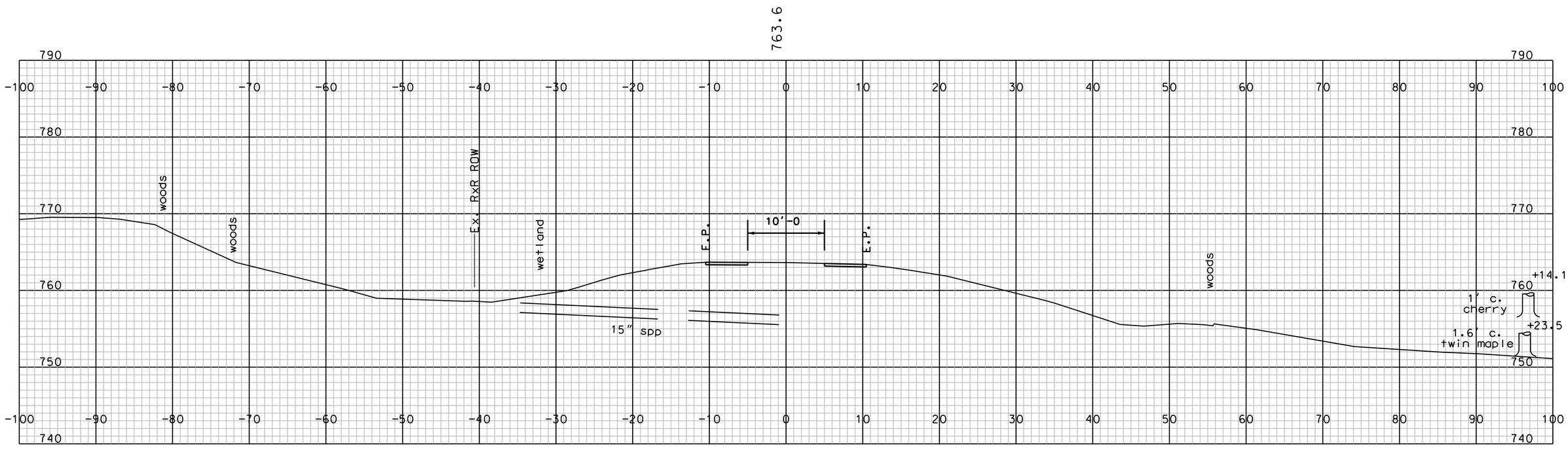

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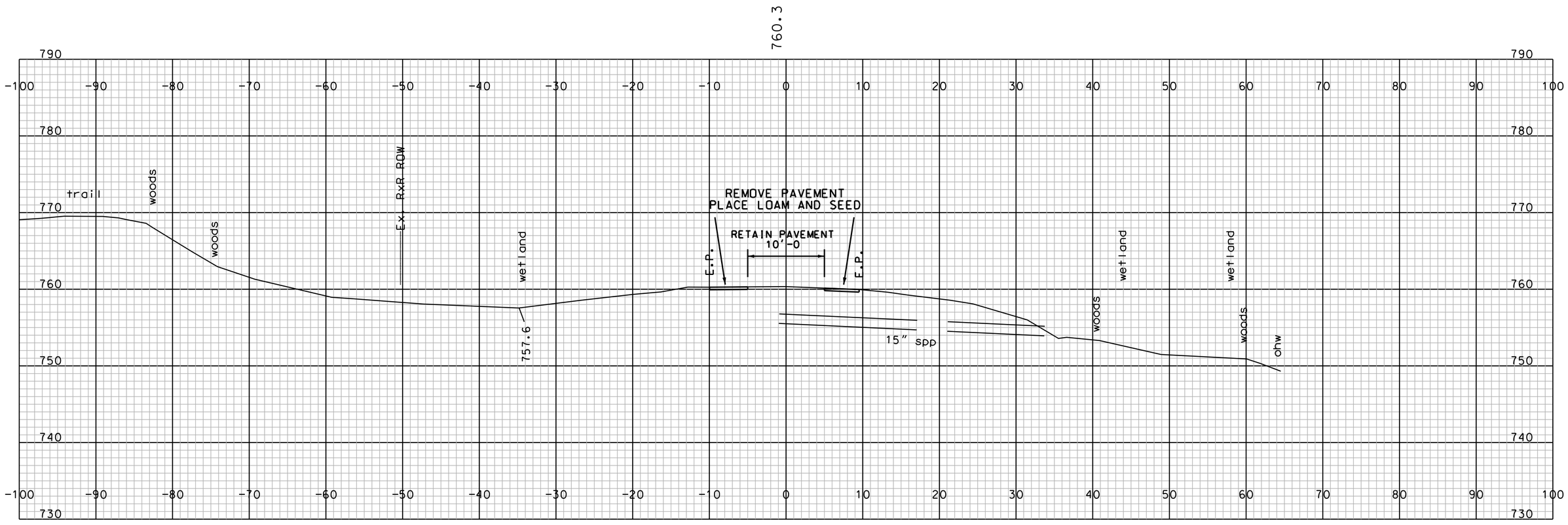

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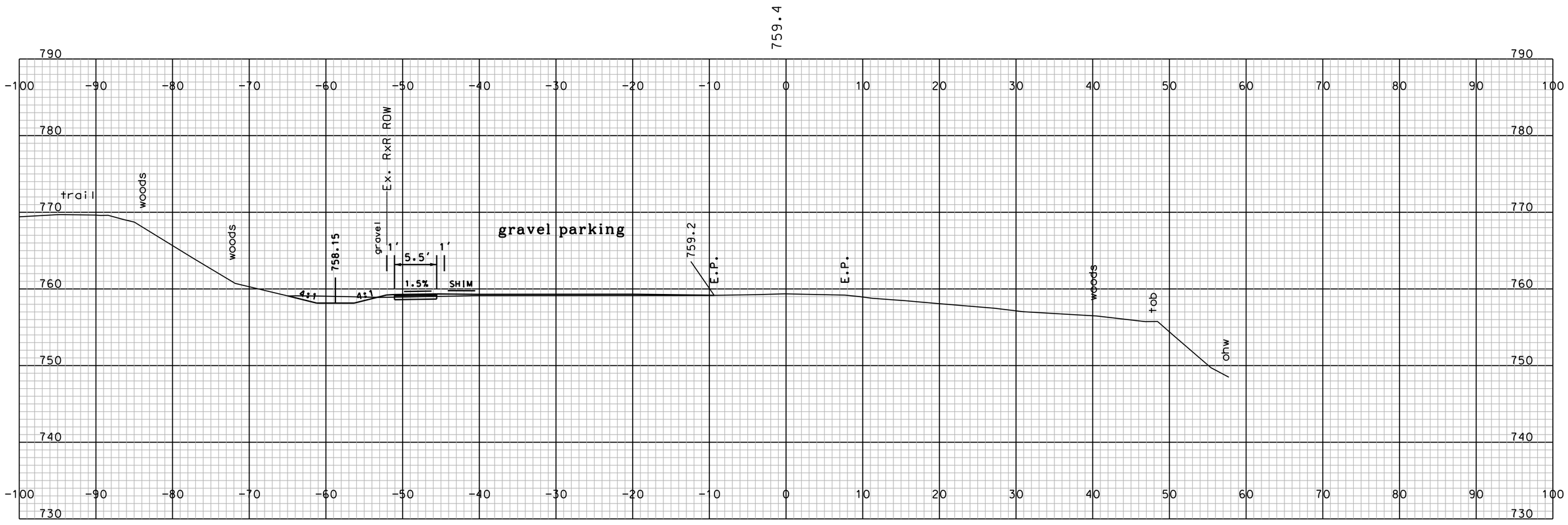


STA. 23+50.000

ACCESS ROAD Sheet 3 of 4

SHEET TOTALS

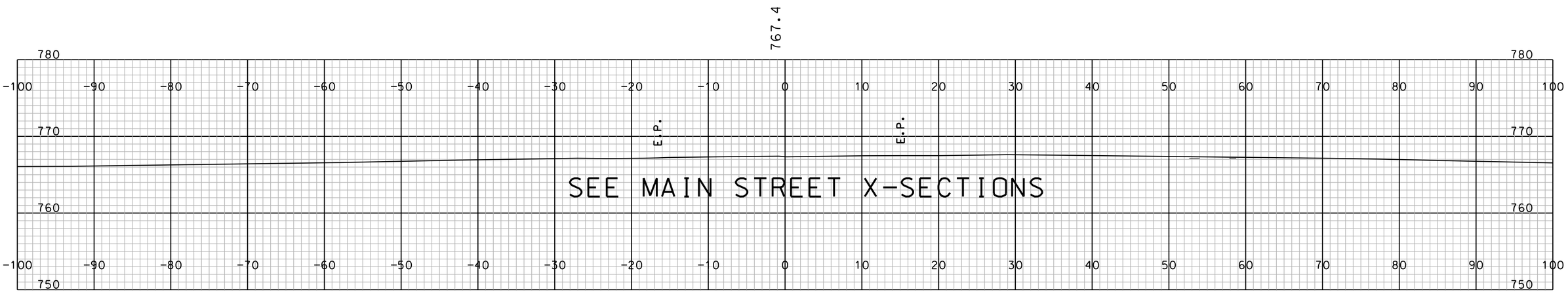
COMMON EXCAV.	18.1 C.Y.	ROCK EXCAV.	– C.Y.
FILL	1.2 C.Y.	MUCK EXCAV.	– C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
12967BMC2D-XS	12967B	26	27

SDR PROCESSED	DRH	DATE	2016
NEW DESIGN	DRH/CAC	DATE	12/2016
SHEET CHECKED	CAC	DATE	12/2016
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

NUMBER	DATE	STATION	STATION	DESCRIPTION



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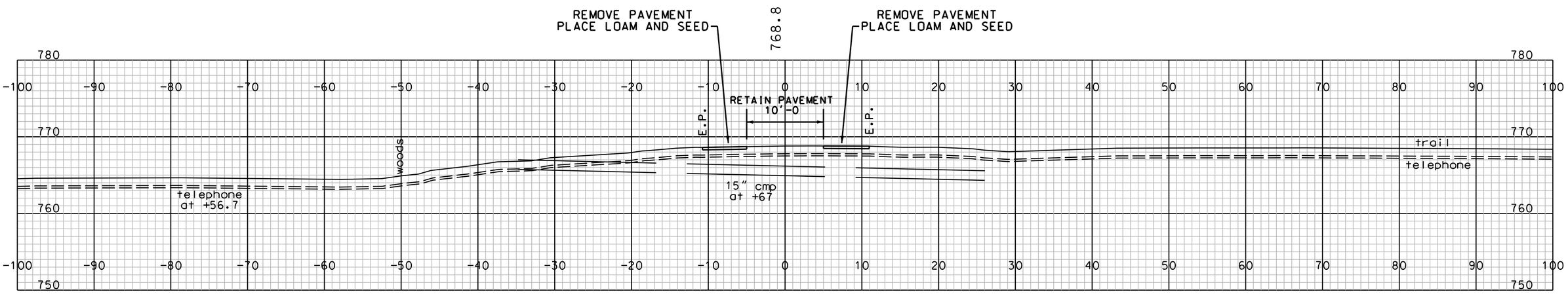

STA. 25+50.000

ACCESS ROAD Sheet 4 of 4

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
12967BMC2D-XS	12967B	27	27