

SHALLOW UTILITIES

CONTRACTOR IS ADVISED THAT BETWEEN STATIONS 530+00 TO 531+75 (SEE SHEET 9 -10) THAT THE EXISTING UTILITIES HAVE MINIMAL COVER. CONTRACTOR SHALL TAKE EXTREME CAUTION WHILE WORKING WITHIN THIS AREA. CONTRACTOR SHALL TAKE EVERY PRECAUTION UP TO AND INCLUDING HAND EXCAVATION AND GRADING TO MINIMIZE THE POTENTIAL FOR UTILITY CONFLICTS.

UTILITIES

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS, TOGETHER WITH THEIR RESPECTIVE OWNERS:

ELECTRIC:
THE ILLUMINATING CO.
FIRST ENERGY
6896 MILLER ROAD, SUITE 101
BRECKSVILLE, OH 44141
ATTN: JOHN M. ZASSICK
PHONE: (440) 546-8706

GAS:
DOMINION ENERGY OHIO
320 SPRINGSIDE DRIVE, SUITE 320
AKRON, OH 44333
ATTN: 2nd FLOOR RELOCATION DESIGN
EMAIL: relocation@dominionenergy.com

CABLE:
(NORTHEASTERN ITS) SPREAD NETWORKS BY ZAYO GROUP
CORTLAND, OH 44410
ATTN: JOHN BRUCE
PHONE: (877) 601-7662
EMAIL: john.bruce@zayo.com

CABLE:
CHARTER COMMUNICATIONS
7 SEVERANCE CIRCLE
CLEVELAND HEIGHTS, OH 44118
ATTN: PAT SANTOEMMO
PHONE: (216) 575-8016X, 12165554202
EMAIL: pat.santoemmo@charter.com

WATER:
CITY OF CLEVELAND DIVISION OF WATER
1201 LAKESIDE AVE.
CLEVELAND, OH 44114
ATTN: FRED ROBERTS
PHONE: (216) 644-2444 EXT. 5590
EMAIL: fred.roberts@clevelandwater.com

SANITARY:
VILLAGE OF MORELAND HILLS
22999 FORBES RD. SUITE. B
CLEVELAND, OH 44146
ATTN: JEFF FILARSKI
PHONE: (440) 439-1999
EMAIL: filarski@cvelimited.com

SANITARY/STORM:
VILLAGE OF HUNTING VALLEY
38251 FAIRMOUNT BLVD.
HUNTING VALLEY, OH 44022
ATTN: DON CUNNINGHAM
PHONE: (440) 247-6106
EMAIL: bldg@huntingvalley.net

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 12 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: GNSS RTN/CONVENTIONAL TRAVERSING
MONUMENT TYPE: SET 5/8" REBAR AND CAPS

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOID 12B

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011) EPOCH 2010.00
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT
COORDINATE SYSTEM: OHIO STATE PLANE (NORTH ZONE 3401)
COMBINED SCALE FACTOR: 0.99992068
ORIGIN OF COORDINATE
SYSTEM: NAD83 (2011)

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.
CONVERSION FACTOR: 1 METER = 3.280833333 U.S. SURVEY FEET.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 6 PM AND 7 AM, SATURDAYS BEFORE 8 AM, SUNDAYS, OR NEW YEARS DAY, GOOD FRIDAY, MEMORIAL DAY, INDEPENDENCE DAY, LABOR DAY, THANKSGIVING DAY, CHRISTMAS DAY, YOM KIPPUR AND ROSH HASHANAH. IN ADDITION DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

EQUIPMENT AND MATERIAL STORAGE

IN ORDER TO PROVIDE FOR THE SAFETY OF THE TRAVELING PUBLIC, THE CONTRACTOR'S ATTENTION IS DIRECTED TO 614.03. IN ADDITION, THE FOLLOWING PROVISIONS SHALL APPLY:

- 1. ANY REMOVED ITEMS SHALL NOT BE STORED ON THE RIGHT OF WAY FOR MORE THAN THIRTY (30) DAY.
- 2. THE STORAGE OF EQUIPMENT, MATERIALS AND VEHICLES WITHIN THE HIGHWAY RIGHT OF WAY WILL BE PERMITTED. THE NUMBER OF AREAS AND EXACT LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
- 3. ALL DISTURBED AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AT NO EXPENSE TO THE STATE.

CLEARING AND GRUBBING

PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING. REMOVE ALL STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF STUMPS TO BE REMOVED.

THE CONTRACTOR IS ADVISED THAT TREE REMOVAL FOR THE PROJECT WILL BE PERFORMED UNDER A SEPARATE CONTRACT. IT IS RECOMMENDED THAT THE CONTRACTOR PERFORM A SITE VISIT PRIOR TO BIDDING TO REVIEW THE EXISTING CONDITIONS FOR CLEARING AND GRUBBING NEEDS FOR THE PROJECT

DIAMETER	NO. TREES	NO. STUMPS	TOTAL
18"	0	1	1
20"	0	1	1
24"	0	2	2
28"	0	1	1

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, SOIL ANALYSIS TEST 1 EACH

659, TOPSOIL 198 CU. YD.

659, SEEDING AND MULCHING 1,782 SQ. YD.

659, REPAIR SEEDING AND MULCHING 89 SQ. YD

659, INTER-SEEDING 89 SQ. YD.

659, COMMERCIAL FERTILIZER 0.4 TON

659, LIME 0.37 ACRES

659, WATER 4.8 M. GAL.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

PROTECTION OF RIGHT-OF-WAY LANDSCAPING

PRIOR TO BEGINNING WORK, THE CONTRACTOR, THE PROJECT ENGINEER, AND A REPRESENTATIVE OF THE MAINTAINING AGENCY WILL REVIEW AND RECORD ALL LANDSCAPING ITEMS WITHIN THE RIGHT-OF-WAY (BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS) A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF LANDSCAPING ITEMS WILL BE MADE.

CONSTRUCT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS.

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

PROTECTION OF RIGHT-OF-WAY LANDSCAPING (CONTINUED)

SUBMIT A WRITTEN REQUEST TO THE PROJECT ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. USE OF THESE AREAS FOR DISPOSAL OF WASTE MATERIAL AND CONSTRUCTION DEBRIS, EXCAVATION OF BORROW MATERIAL AND PLACEMENT OF PORTABLE PLANTS IS PROHIBITED. THE REQUEST MUST BE APPROVED, IN WRITING, BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA.

ANY ITEMS DAMAGED BEYOND THE CONSTRUCTION LIMITS, AS DEFINED ABOVE, WILL BE REPLACED IN KIND OR AS APPROVED BY THE PROJECT ENGINEER.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

ENDANGERED BAT HABITAT REMOVAL

THIS PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT (ESA). FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS: A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

ITEM 611 - CONDUIT, MISC.: EXISTING SANITARY SEWER LINE LOCATE

THE CONTRACTOR SHALL PERFORM HORIZONTAL AND VERTICAL LINE LOCATES OF THE EXISTING SANITARY LINES AS DIRECTED BY THE ENGINEER. THE CONTRACTOR WILL NEED TO VERIFY BOTH HORIZONTAL ALIGNMENT AND VERTICAL PROFILE OF PIPE WITH A MINIMUM OF FOUR (4) LOCATES PERFORMED BY AN ODOT PRE-QUALIFIED SUBSURFACE UTILITY LOCATE COMPANY. THIS WORK SHALL BE PERFORMED PRIOR TO ORDERING ANY MATERIALS NECESSARY TO CONSTRUCT CIP BOX CULVERT. IN ADDITION, THE CONTRACTOR WILL NEED TO PERFORM BOTH BEFORE AND AFTER VIDEO OF THE SANITARY LINE TO VERIFY THAT THE REMOVAL AND REPLACEMENT OF PORTIONS OF EXISTING BOX CULVERT HAS NOT DAMAGED THE EXISTING PIPE.

PAYMENT FOR THE ABOVE WORK SHALL BE INCLUDED IN THE LUMP SUM BID ITEM 611, CONDUIT, MISC.: EXISTING SANITARY SEWER LINE LOCATE.

ITEM 614 MAINTAINING TRAFFIC

ROAD CLOSURE OF SR 87 IS PROHIBITED. SHOULDERS ON SR 87 MAY BE CLOSED TO PROTECT TRAFFIC FROM ARRIVING AND DEPARTING CONSTRUCTION TRAFFIC AND CONCRETE PUMP OPERATIONS. TWO WAY TRAFFIC MUST BE MAINTAINED AT ALL TIMES. SHOULDER ZONES AND DURATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL 14 DAYS BEFORE THEIR INSTALLATION.

CALCULATED
SJD
CHECKED
SNS

GENERAL NOTES

CUY - 087 - 15.12

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DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 7TH EDITION (2014), INCLUDING THE 2015 AND 2016 INTERIM SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL, 2019.

DESIGN LOADING

DESIGN LOADING: HL-93

FUTURE WEARING SURFACE (FWS) OF 0.060 KIPS/SQ.FT.

DESIGN DATA

CONCRETE CLASS QC1
-COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE)

REINFORCING STEEL
-MINIMUM YIELD STRENGTH 60 KSI

ITEM 202, PORTIONS OF STRUCTURE REMOVED, AS PER PLAN

THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT, EXCEPT FOR WEARING COURSE REMOVAL. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS WILL NOT BE PERMITTED. THE METHOD OF REMOVAL AND THE WEIGHT OF HAMMER SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE OR DAMAGE THE EXISTING REINFORCING STEEL TO BE PRESERVED. SHIELD, STABILIZE AND PROTECT ANY NEARBY UNDERGROUND UTILITY, DRAINAGE OR SEWER LINES, AND MAN-HOLES OR CHAMBERS THAT ARE EXPOSED DURING THE ARCH OR CULVERT DEMOLITION. MAINTAIN THIS PROTECTION DURING CONSTRUCTION AS APPROVED BY THE ENGINEER SUBMIT CONSTRUCTION PLANS ACCORDING TO C&MS 501.05.

CUT LINE CONSTRUCTION JOINT PREPARATION

SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 1 INCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING REINFORCING STEEL, IF REQUIRED IN THE PLANS, IN PLACE. INSTALL DOWEL BARS IF SPECIFIED. PRIOR TO CONCRETE PLACEMENT ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING REINFORCING STEEL DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

ITEM 613 - LOW STRENGTH MORTAR, AS PER PLAN

PROVIDE TYPE 2 LOW STRENGTH MORTAR ONLY IN ACCORDANCE WITH ITEM 613.03. OTHER LOW STRENGTH MORTAR TYPES ARE PROHIBITED.

SUBSTRUCTURE CONCRETE REMOVAL

REMOVE CONCRETE BY MEANS OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. HYDRAULIC HOE-RAM TYPE HAMMERS WILL NOT BE PERMITTED. THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 35 POUNDS FOR REMOVAL WITHIN 18 INCHES OF PORTIONS TO BE PRESERVED. OUTSIDE THE 18 INCH LIMIT, THE CONTRACTOR MAY USE HAMMERS NOT EXCEEDING 90 POUNDS UPON THE APPROVAL OF THE ENGINEER. DO NOT PLACE PNEUMATIC HAMMERS IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.

FOUNDATION BEARING RESISTANCE

HEADWALL AND WINGWALL FOOTINGS, AS DESIGNED, PRODUCE A MAXIMUM SERVICE LOAD PRESSURE OF 1.6 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LOAD PRESSURE OF 2.2 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 6.1 KIPS PER SQUARE FOOT.

ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN

THIS ITEM SHALL INCLUDE THE REMOVAL AND REPAIR OF SPALLED AND UNSOUND CONCRETE AND SUBSEQUENT CONCRETE PATCHING, IN ACCORDANCE WITH CMS ITEM 519, WHERE INDICATED IN THE PLANS AND AS DIRECTED BY THE ENGINEER. A UNITARY COST ONE (1) SQ. FT. HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES AND WILL BE PAID FOR AT THAT UNIT COST, FOR A QUANTITY AGREED TO BY THE ENGINEER, UPON REVIEW OF THE CONTRACTOR'S SOUNDING SURVEY (SEE ITEM SPECIAL BELOW).

PRIOR TO THE SURFACE CLEANING SPECIFIED IN 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED REINFORCING STEEL. ACCEPTABLE METHODS INCLUDE HIGH-PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT, OR VACUUM ABRASIVE BLASTING.

ITEM SPECIAL - PATCHING CONCRETE STRUCTURES, (SOUNDING SURVEY)

THIS ITEM SHALL INCLUDE A SURVEY BY THE CONTRACTOR TO DETECT AND MARK AREAS OF UNSOUND CONCRETE BY MANUALLY SOUNDING WITH A HAMMER, WHERE INDICATED IN THE PLANS AND AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL RECORD THE AREAS, BOTH ALREADY SPALLED AND DETECTED BY SOUNDING, BY MARKING THE CONCRETE WITH HEAVY LUMBER CRAYON IN APPROXIMATELY RECTANGLE SHAPES AND SUBSHAPES, AND THEN MEASURING, MARKING THE PERIMETER DIMENSIONS ON THE CONCRETE. THE AREAS SHALL THEN BE RECORDED, TALLIED AND SUBMITTED TO THE ENGINEER FOR REVIEW.

CALC:	DLG	2/24/2021
CHECKED:	SNS	5/21/2021

ESTIMATED QUANTITIES

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION
202	11202	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN
503	21100	416	CY	UNCLASSIFIED EXCAVATION
509	10000	52083	LB	EPOXY COATED REINFORCING STEEL
510	10000	372	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT
511	46010	18.7	CY	CLASS QC1 CONCRETE, RETAINING WALL NOT INCLUDING FOOTING
511	46510	40.5	CY	CLASS QC1 CONCRETE, FOOTING
511	47011	260	CY	CLASS QC1 CONCRETE, CULVERT, AS PER PLAN
511	50210	39.2	CY	CLASS QC1 CONCRETE, SUBSTRUCTURE
512	10100	200	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
512	33001	612	SY	TYPE 2 WATERPROOFING, AS PER PLAN
516	13600	29	SF	1" PREFORMED EXPANSION JOINT FILLER
519	21200	17	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC
519	11100	100	SF	PATCHING CONCRETE STRUCTURE
519	60000	15	LS	SPECIAL PATCHING CONCRETE STRUCTURE, AS PER PLAN (SOUNDING SURVEY)
613	41301	1062	CY	LOW STRENGTH MORTAR BACKFILL (TYPE 2), AS PER PLAN

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DESIGN AGENCY
STAHL SHEAFFER ENGINEERING, LLC
1401 SOUTH MAIN STREET STE 203
NORTH CANTON, OH 44720

DATE
02/25/21
REVIEWED
DLG
STRUCTURE FILE NUMBER
1807536

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GENERAL NOTES AND ESTIMATED QUANTITIES
CUY-87-15.12
SR 87 (S. WOODLAND RD.) OVER GRISWALD CREEK

CUY-087-15.12
PID No. 21806

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