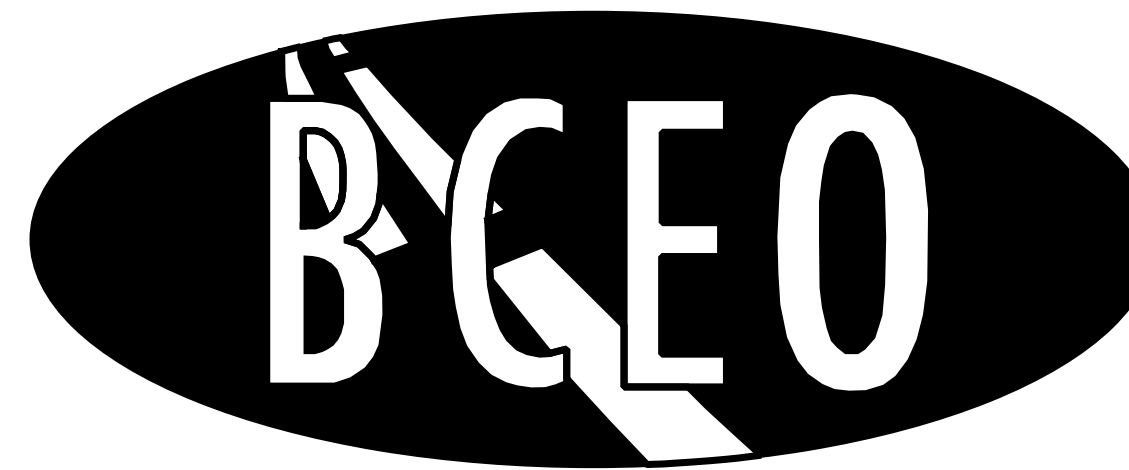


GILMORE ROAD IMPROVEMENTS BUT-TR99-0.519

FAIRFIELD TOWNSHIP
BUTLER COUNTY, OHIO
BUTLER COUNTY ENGINEER'S OFFICE



GREGORY J. WILKENS, P.E., P.S.
BUTLER COUNTY ENGINEER

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STAGE 2
11-25-2019

DRAFT

PROJECT DESCRIPTION

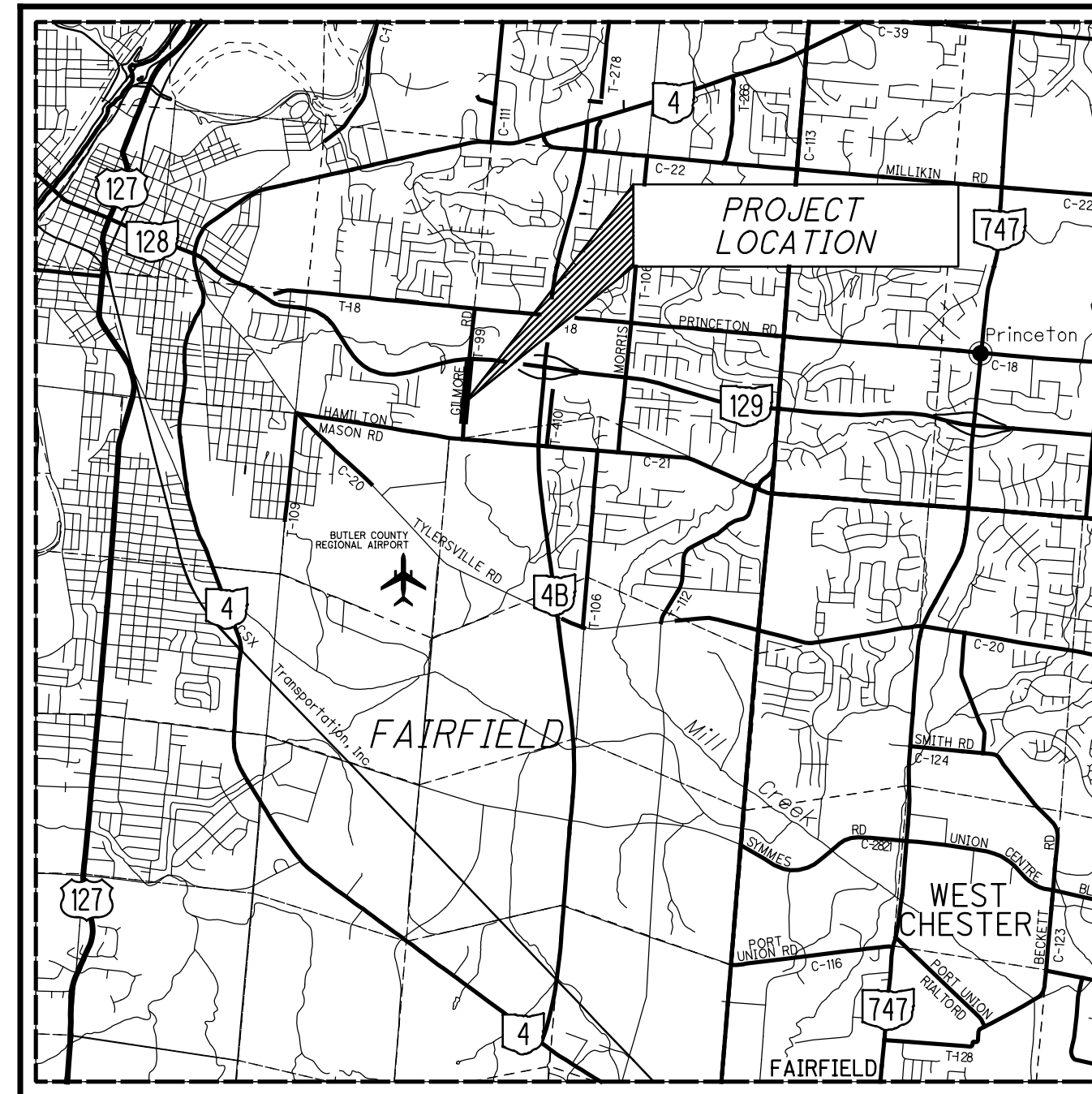
THE ROADWAY IMPROVEMENT INVOLVES THE RECONSTRUCTION AND WIDENING TO INCLUDE A TWO WAY LEFT TURN LANE TO GILMORE ROAD FOR APPROXIMATELY 1,600 LINEAL FEET SOUTH OF THE S.R. 129 OVERPASS. THE PROJECT WILL INCLUDE NEW CURB AND STORM SEWERS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 2.97 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.15 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: 4.90 ACRES

2016 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.



LOCATION MAP

LATITUDE: 39°22' 45" LONGITUDE: -84°31' 03"



PORTION TO BE IMPROVED	-----
INTERSTATE HIGHWAY	=====
FEDERAL ROUTES	=====
STATE ROUTES	-----
COUNTY & TOWNSHIP ROADS	-----
OTHER ROADS	-----

DESIGN EXCEPTIONS NONE

UNDERGROUND UTILITIES

Contact Two Working Days
Before You Dig



OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)

PLAN PREPARED BY:



CIVIL ENGINEERING
SURVEYING
LANDSCAPE
ARCHITECTURE
6219 Centre Park Dr.
West Chester, OH 45380
913.779.7851
www.kleingers.com

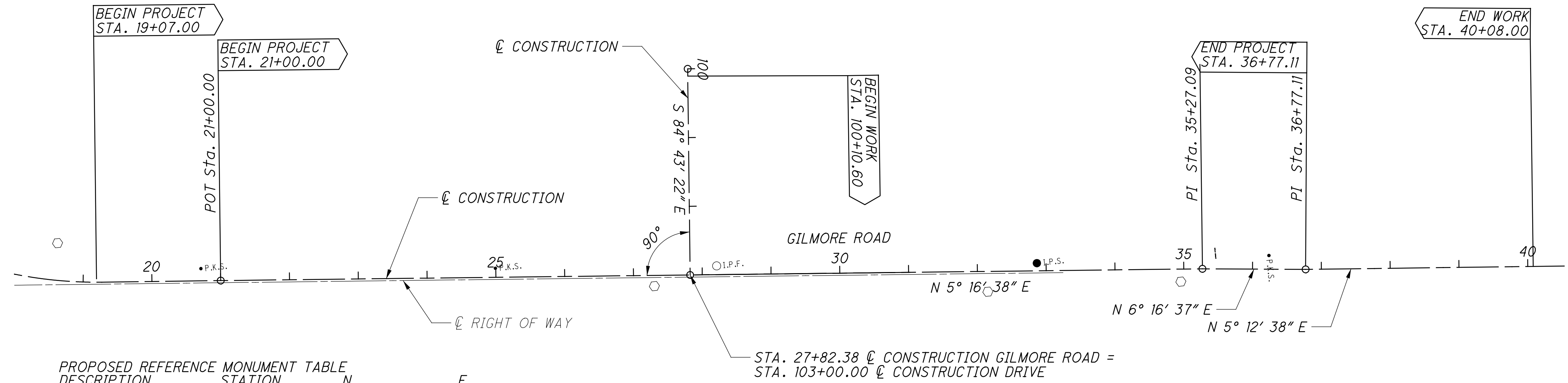
ENGINEERS SEAL:

SIGNED: _____
DATE: _____

STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1	10/18/19	DM-4.3	1/15/16	TC-52.20	7/20/18	800-2016 10/19/18	
BP-4.1	7/19/13	DM-4.4	1/15/16	TC-65.10	1/17/14	832 10/19/18	
BP-5.1	1/18/19			TC-65.11	7/21/17	861 1/16/15	
BP-7.1	7/20/18	RM-1.1	7/18/14	TC-71.10	1/19/18		
CB-1.1	7/19/19	MT-97.10	4/19/19				
CB-2.1	7/20/18	MT-99.30	1/19/18				
CB-2.2	7/20/18	MT-101.90	7/21/17				
		MT-103.10	1/19/18				
HW-1.1	7/20/18	MT-105.10	7/19/13				
HW-2.2	7/20/18	MT-110.10	7/19/13				
MH-1.2	1/15/16	TC-41.20	10/18/13				
		TC-42.10	10/18/13				
DM-1.1	7/21/17	TC-42.20	10/18/13				
DM-1.2	1/18/13	TC-52.10	10/18/13				

APPROVED _____
DATE _____ COUNTY ENGINEER

FEDERAL PROJECT NO. N/A
PID NO. N/A
CONSTRUCTION PROJECT NO. N/A
RAILROAD INVOLVEMENT NONE
BUT-TR99-0.519
1/31



PROPOSED REFERENCE MONUMENT TABLE

DESCRIPTION	STATION	N	E
BEGIN PROJECT	21+00.00	509620.44	1398830.54
INTERSECTION	27+82.38	510299.93	1398893.30
PI	35+27.09	511041.48	1398961.79
PI/END PROJECT	36+77.11	511190.60	1398978.20
BEGIN WORK	100+10.62	510326.55	1398605.14
INTERSECTION	103+00.00	510299.93	1398893.30

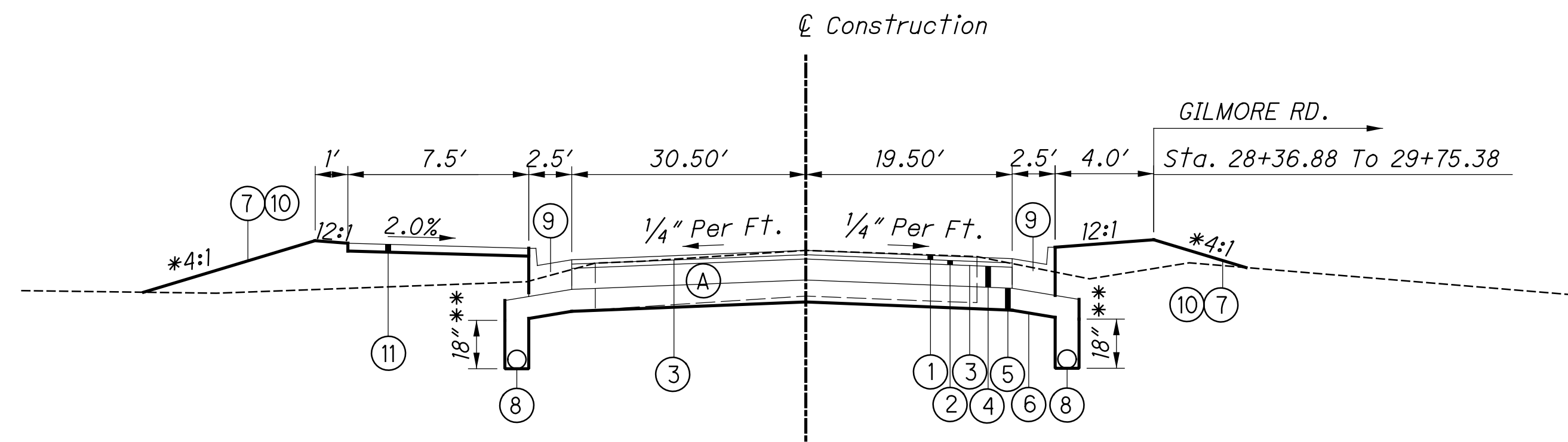
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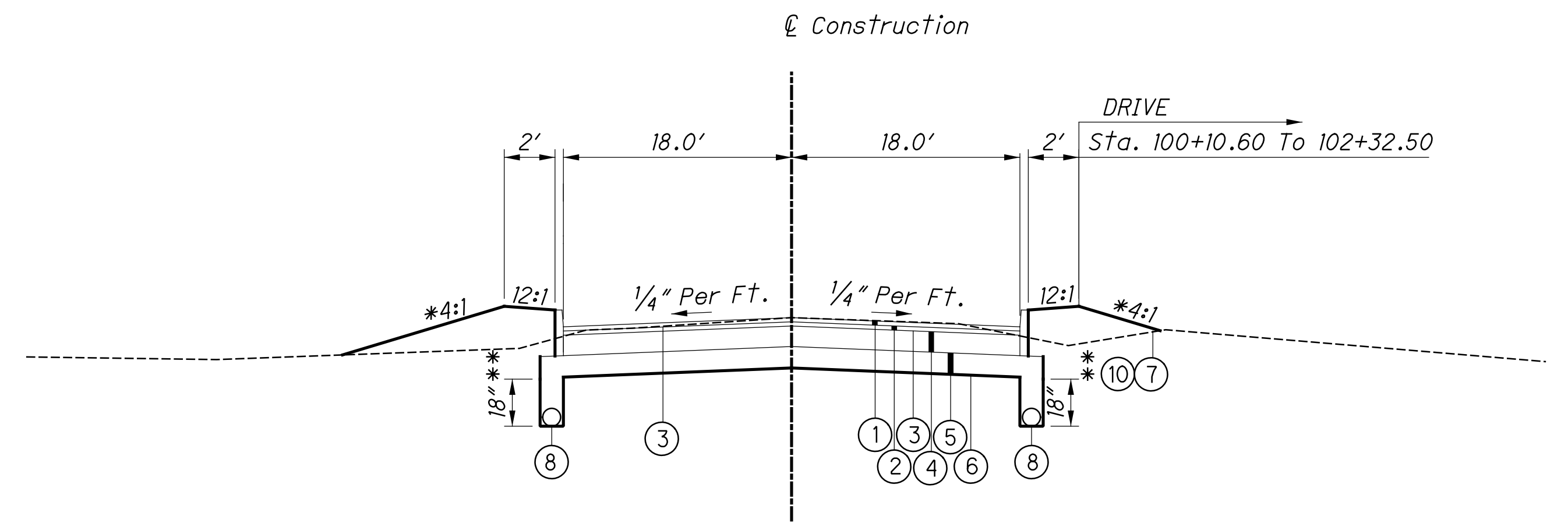
SCHEMATIC LAYOUT

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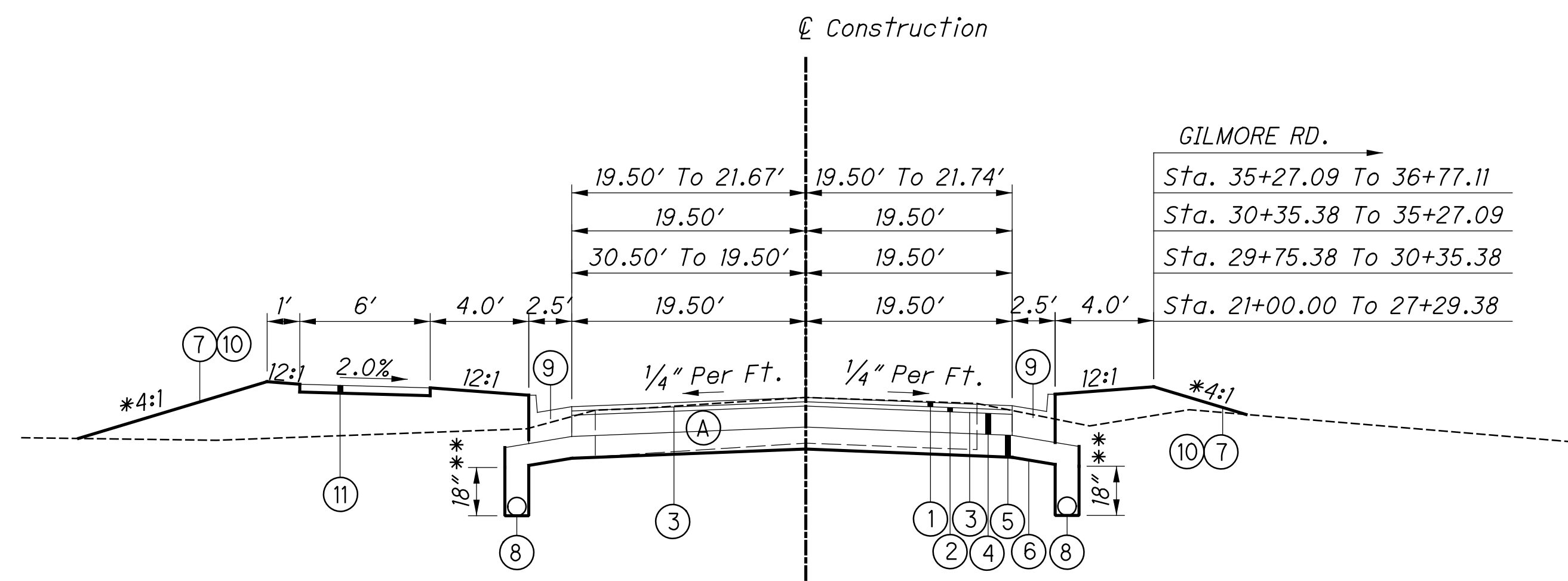
H:\2015\1505688\006\050319\Design\Roadway\Sheets\050319_GY002.dgn Sheet 11/25/2019 3:42:37 PM gurasek



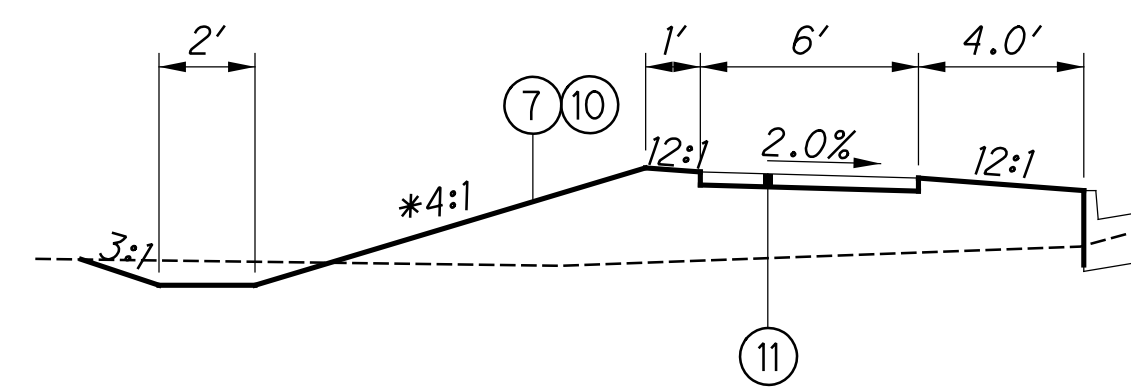
* Slopes As Noted On The Cross Section Sheets (Typical)
** See Plan and Profile sheets for Underdrain locations.



* Slopes As Noted On The Cross Section Sheets (Typical)
** See Plan and Profile sheets for Underdrain locations.



* Slopes As Noted On The Cross Section Sheets (Typical)
** See Plan and Profile sheets for Underdrain locations.



DITCH DETAIL
STA. 21+75 TO STA. 22+75
STA. 29+85 TO STA. 32+25

- ① Item 441 - 1 1/2" Asphalt Surface, Type 1, (448), PG64-22
- ② Item 441 - 1 3/4" Asphalt Intermediate Course, Type 2, (448)
- ③ Item 407 - Non-Tracking Tack Coat
- ④ Item 301 - 6" Asphalt Concrete Base
- ⑤ Item 304 - 6" Aggregate Base
- ⑥ Item 203 - Subgrade Compaction with Proof Roll
- ⑦ Item 659 - Seeding & Mulching, Class 1
- ⑧ Item 605 - 6" Base Pipe Underdrain

- ⑨ Item 609 - Combination Curb and Gutter, Type 2
- ⑩ Item 653 - Topsoil (6" Depth)
- ⑪ Item 608 - 4" Concrete Walk

Ⓐ Existing Pavement

Note:
Sawcutting of existing pavement to be done using diamond tipped circular sawblade.

* Slopes As Noted On The Cross Section Sheets (Typical)
** See Plan and Profile sheets for Underdrain locations.

ROUNDING

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

UTILITIES

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

WATER & SEWER

BUTLER COUNTY WATER AND SEWER DEPARTMENT
130 HIGH STREET, 5TH FLOOR
HAMILTON, OHIO 45011
(513) 867-5699

GAS & ELECTRIC

DUKE ENERGY (GAS)
PO BOX 960, ROOM 460 ANNEX
CINCINNATI, OHIO 45202
(513) 287-3102

TELEPHONE

CINCINNATI BELL TELEPHONE
221 EAST FOURTH STREET, BLDG. 343
CINCINNATI, OHIO 45201-2301
(513) 382-5740

FIBER OPTIC

FIBERTECH NETWORKS
300 MERIDIAN CENTRE, SUITE 200
ROCHESTER, NY 14618
(585) 697-5100

UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 OF THE OHIO REVISED CODE.

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY DILIGENT FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT BUTLER COUNTY DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS.

EXISTING FACILITIES

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM HIS WORK IN SUCH A MANNER AS NOT TO DAMAGE OR DESTROY ANY EXISTING FACILITY. IF ANY SUCH DAMAGE DOES OCCUR DUE TO THE CONTRACTOR'S OPERATIONS, HE SHALL REPLACE THE DAMAGED PORTION AT HIS EXPENSE AND TO THE SATISFACTION OF THE OWNER.

RELOCATION OF UTILITIES

ALL UTILITIES WHICH ARE SHOWN OR LOCATED DURING THE COURSE OF CONSTRUCTION THAT ARE FOUND TO BE IN CONFLICT WITH THESE PLANS ARE TO BE RELOCATED OR ADJUSTED BY THE OWNER OF THE UTILITY.

CONTINGENCY QUANTITIES

CONTINGENCY QUANTITIES ARE ADDITIONAL QUANTITIES, WHICH ARE INCLUDED IN THE BID QUANTITIES. CONTINGENCY QUANTITIES ARE ONLY TO BE USED UNDER THE ENGINEER'S DIRECTION.

TACK COAT

THE RATE OF APPLICATION OF THE 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.06 GALLONS PER SQUARE YARD FOR ESTIMATING PURPOSES ONLY.

UTILITIES NOTIFICATION

AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INVOLVE UNDERGROUND UTILITY FACILITIES, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, AND THE REGISTERED UTILITY PROTECTION SERVICE.

THE OWNER OF THE UNDERGROUND UTILITY FACILITY SHALL, WITHIN FORTY-EIGHT (48) HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, AFTER NOTICE IS RECEIVED, STAKE, MARK OR OTHERWISE DESIGNATE THE LOCATION OF THE UNDERGROUND UTILITY FACILITIES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO INDICATE THEIR COURSE TOGETHER WITH THE APPROXIMATE DEPTH AT WHICH THEY WERE INSTALLED. THE MARKING OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO DAYS AHEAD OF THE PLANNED CONSTRUCTION.

SPECIFICATIONS AND STANDARD CONSTRUCTION DRAWINGS

THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIALS SPECIFICATIONS, DATED JANUARY 1, 2016, AND THE NOTED STANDARD CONSTRUCTION DRAWINGS SHALL GOVERN THIS IMPROVEMENT.

WHEREVER THE WORD "STATE" OCCURS, IT IS TO MEAN BUTLER COUNTY. WHEREVER THE WORD "DEPARTMENT" OCCURS, IT IS TO MEAN THE BOARD OF COUNTY COMMISSIONERS OF BUTLER COUNTY, OHIO, AND WHEREVER THE WORD "DIRECTOR" OCCURS, IT IS TO MEAN COUNTY ENGINEER, AND/OR HIS DESIGNATED REPRESENTATIVE, LIMITED TO THE PARTICULAR DUTIES ENTRUSTED TO HIM.

ESTIMATED QUANTITIES

THE ESTIMATED QUANTITIES UPON WHICH THIS PROPOSAL IS BASED ARE APPROXIMATE ONLY. THEY SHALL BE USED IN DETERMINING THE LOWEST AND BEST BIDDER. DURING THE TERM OF THE CONTRACT, AND AT THE OPTION OF THE ENGINEER, THEY MAY BE INCREASED, DECREASED, OR NON-PERFORMED AS CONDITIONS DICTATE AND/OR WHEN THE NEED FOR ANY ITEM CANNOT BE DETERMINED UNTIL THE COMPLETION OF OTHER CONTRACTUAL ITEMS AND/OR THE PROPER INSPECTIONS HAVE BEEN MADE. THE CONTRACTOR SHALL NOT BE ENTITLED TO ANY CLAIM OR LOSS OF PROFITS OR OTHER DAMAGES SHOULD THE ACTUAL QUANTITIES OF ANY OR ALL ITEMS BE GREATER THAN OR LESS THAN THE STATED ESTIMATED QUANTITIES.

CONSTRUCTION LIMITS

THE CONTRACTOR SHALL RESTRICT ALL OF HIS ACTIVITIES, EQUIPMENT STORAGE AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL, THE ACTUAL CONSTRUCTION LIMITS ARE SHOWN ON THE PLANS OR THE EXISTING OR PROPOSED R/W, WHICHEVER IS NEAREST. SHOULD THE CONTRACTOR WISH TO USE ANY AREA OUTSIDE THESE LIMITS, HE MUST SUBMIT HIS REQUEST IN WRITING TO THE ENGINEER. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA THAT THE CONTRACTOR PLANS TO USE AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. THE ENGINEER SHALL APPROVE THE REQUEST IN WRITING BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA. PRIOR TO THE BEGINNING OF WORK, THE REPRESENTATIVE OF THE MAINTAINING AGENCY SHALL REVIEW AND RECORD ALL ADJACENT SITES 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 THE ADJACENT SITES WILL BE MADE. ANY AREAS DAMAGED BEYOND THE CONSTRUCTION LIMITS AS DEFINED ABOVE WILL BE REPAIRED OR REPLACED, AT THE CONTRACTOR'S EXPENSE, IN KIND OR AS DIRECTED BY THE ENGINEER.

WEATHER CONDITIONS

NO CONSTRUCTION SHALL BE DONE DURING STORMY, FREEZING, OR INCLEMENT WEATHER UNLESS PERMISSION IS GIVEN BY THE COUNTY ENGINEER. WHENEVER WORK PROCEEDS DURING SUCH WEATHER THE CONTRACTOR SHALL PROVIDE APPROVED FACILITIES, INCLUDING HEAT IF REQUIRED, FOR PROTECTION OF ALL THE MATERIALS AND THE FINISHED WORK.

MAINTAINING TRAFFIC

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN TRAFFIC. OCCASIONALLY MODIFICATIONS IN TRAFFIC CONTROLS OR WORKING CONDITIONS MAY BE REQUIRED IN ORDER TO EXPEDITE SAFE TRAFFIC MOVEMENT AND TO PROMOTE WORKER SAFETY.

IT IS ESSENTIAL THAT THE ENGINEER HAVE THE AUTHORITY TO CONTROL THE PROGRESS OF WORK ON THE PROJECT IN ITS RELATION TO OBTAINING SAFE CONDITIONS, INCLUDING THE AUTHORITY TO MODIFY CONDITIONS OR HALT WORK UNTIL APPLICABLE OR REMEDIAL SAFETY MEASURES ARE TAKEN, THE CONTRACTOR IS TO SUPPLY ALL TRAFFIC CONTROL AS THE ENGINEER DEEMS NECESSARY.

TRAFFIC MAY BE DETOURED DURING CONSTRUCTION SUBJECT TO THE FOLLOWING:

1. CLOSINGS ARE SUBJECT TO APPROVAL BY THE COUNTY ENGINEER. FIVE WORKING DAYS ADVANCED NOTICE MUST BE PROVIDED.
2. LIGHTS, SIGNS, BARRELS, AND ALL BARRICADES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
3. DETOURS WILL BE PROVIDED BY COUNTY FORCES.
4. LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR MUST COORDINATE THE WORK SO AS NOT TO INTERRUPT INGRESS AND EGRESS FROM AFFECTED PROPERTIES.

NOTE: ALL TRAFFIC CONTROL DEVICES USED ON STREET AND HIGHWAY CONSTRUCTION OR MAINTENANCE WORK SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS OF THE MANUAL OF TRAFFIC CONTROL FOR CONSTRUCTION AND MAINTENANCE OPERATIONS. (REVISION 21) AND THE OHIO DEPARTMENT OF TRANSPORTATION TRAFFIC CONTROL MANUAL.

TEMPORARY GRAVEL (MAINTAINING TRAFFIC)

ANY TEMPORARY AGGREGATE (ITEM #304) NEEDED TO MAINTAIN ENTRANCE TO ANY PROPERTY WITHIN THE CONSTRUCTION SITE WILL BE INCLUDED WITHIN THE LUMP SUM BID FOR MAINTAINING TRAFFIC.

SUBGRADE STABILIZATION

CONTINGENCY ITEMS FOR SUBGRADE STABILIZATION HAVE BEEN INCLUDED. THIS ITEM WILL INCLUDE 18 INCH (DEPTH) OF NO. 2 STONE AND 6 INCHES (DEPTH) OF ITEM 304, AGGREGATE BASE INCLUDING ITEM 861, GEOGRID FOR SUBGRADE STABILIZATION FOR ALL FULL DEPTH PAVEMENT AREAS ALONG GILMORE ROAD. THE USE OF THIS ITEM WILL BE DETERMINED IN THE FIELD BY THE INSPECTOR. ALL ITEMS ARE INCLUDED IN THE GENERAL SUMMARY.

PROJECT CONTROL REFERENCE MONUMENT, AS PER PLAN

CENTERLINE MONUMENTATION AS SHOWN ON PLAN SHEET 2 SHALL BE MAG NAIL SPIKES, UNLESS OTHERWISE NOTED, PLACED AT THE NOTED COORDINATES OR STATION/OFFSET. MONUMENTS ARE TO BE SET UNDER THE SUPERVISION OF A PROFESSIONAL SURVEYOR REGISTERED IN THE STATE OF OHIO. ALL MONUMENTATION TO BE SET AFTER APPLICATION OF INTERMEDIATE COURSE PRIOR TO FINAL SURFACE COURSE. COST SHALL INCLUDE ALL LABOR AND MATERIAL NEEDED TO PLACE MONUMENTATION.

THE FOLLOWING ESTIMATED QUANTITY FOR THE ABOVE NOTED WORK HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:
ITEM 623, PROJECT CONTROL REFERENCE MONUMENT, AS PER PLAN - EACH

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GENERAL NOTES

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MAINTENANCE OF SEWER FLOWS

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO AS TO MAINTAIN SEWER FLOWS AT ALL TIMES THROUGH EXISTING FACILITIES TO BE REPLACED UNTIL NEW FACILITIES ARE COMPLETED AND PLACED IN USE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED.

ALL EXISTING SEWERS SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE PERTINENT 611 CONDUIT TYPES OF THE CONTRACT.

FIELD DRAINS OR SUMP LINES

ANY SMALL FIELD DRAINS OR SUMP LINES THAT NEED TO BE EXTENDED OR RECONNECTED IN THE PROCESS OF COMPLETING THE PROJECT WILL BE CONSIDERED TO BE PART OF THE FOLLOWING ESTIMATED QUANTITIES TO BE USED AS DIRECTED BY THE ENGINEER.

611 6" CONDUIT TYPE F 150 LIN. FT.

CONNECTIONS TO EXISTING PIPE

WHERE THE PLANS PROVIDE FOR THE PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS EITHER OVER OR UNDER AN EXISTING SEWER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE EXISTING PIPE BOTH AS TO LINE AND GRADE BEFORE HE STARTS TO LAY THE PROPOSED CONDUIT.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT 611 CONDUIT ITEMS.

EXISTING STRUCTURES REMOVED

THIS ITEM SHALL CONSIST OF REMOVAL OF EXISTING STRUCTURES AS DIRECTED BY THE ENGINEER. BACKFILL IN THE DISTURBED AREAS SHALL CONFORM TO ITEM 203, EMBANKMENT. PAYMENT FOR THIS WORK SHALL BE INCLUDED UNDER PERTINENT ITEM BEING REMOVED.

SPECIAL: LOW STRENGTH MORTAR BACKFILL, AS PER PLAN

ANY OBJECT, CONDUIT, PIPE OR STRUCTURE REMOVED OR INSTALLED WITHIN THE EXISTING OR PROPOSED ROADWAY LIMITS AND ANY EXISTING OR PROPOSED DRIVEWAY LIMITS WILL REQUIRE LSM 50 AS BACKFILL. LIMITS OF LSM 50 SHALL EXTEND TWO FEET PAST THE EDGE OF BERM OR THE EDGE OF DRIVEWAY AND TO THE TOP OF THE SUBGRADE.

FOR ITEMS REMOVED: BACKFILL THE ENTIRE VOID LEFT BY THE REMOVAL ITEM WITH LSM-50.

FOR CONDUITS AND WATER MAIN: BACKFILL THE CONDUIT AND/OR WATER MAIN WITH GRANULAR MATERIAL, UP TO BUT NO MORE THAN ONE FOOT ABOVE THE TOP OF THE CONDUIT AND/OR WATER MAIN. COMPACT THE GRANULAR MATERIAL PER THE ODOT CONSTRUCTION MATERIAL SPECIFICATIONS. BACKFILL THE REMAINDER OF THE VOID WITH HIGH SLUMP LSM 50.

FOR ANY OTHER OBJECT OR STRUCTURE, BACKFILL THE ENTIRE VOID WITH LSM 50.

ALL LABOR AND MATERIAL COST(S) ASSOCIATED WITH THE LSM 50 BACKFILL REQUIREMENT ARE INCIDENTAL TO THE PERTINENT BID ITEM.

SEEDING

QUANTITIES FOR SEEDING ARE CALCULATED FOR THE SOIL AREAS BETWEEN THE WORK LIMITS AS SHOWN ON THE CROSS SECTIONS.

PAVEMENT REMOVED

WHERE PLANS REQUIRE PAVEMENT REMOVED, SAWING OF PAVEMENT PRIOR TO PAVEMENT REMOVAL IS INCIDENTAL TO ITEM 202, PAVEMENT REMOVED.

RESTORATION

THE CONTRACTOR SHALL PROVIDE FOR PROTECTION OF THE EXISTING STREETS AND STRUCTURES: THE MAINTENANCE OF THE STREETS, DRIVEWAYS, SIDEWALKS, CURBS, GUTTERS, RESEEDING AND RESODDING, REMOVAL OF TREES, RESTORATION OF AGRICULTURAL LAND, THE MAINTENANCE OF THE CONSTRUCTION AREA DURING PROGRESS OF THE WORK AND THE COMPLETE RESTORATION OF THE CONSTRUCTION AREA TO ITS ORIGINAL CONDITION AT THE COMPLETION OF THE WORK.

THE CONTRACTOR SHALL CONTINUOUSLY CARRY ON WITH THE FINAL RESTORATION OF THE CONSTRUCTION AREA AFTER THE BACKFILLING IS COMPLETED, AND, AS DIRECTED BY THE PROJECT REPRESENTATIVE, HE SHALL PROCEED TO RESTORE TO ITS ORIGINAL CONDITION ALL STREETS, DRIVEWAYS, SIDEWALKS, CURBS, GUTTERS, STRUCTURES, AND ALL AREAS THAT WERE DAMAGED, DISTURBED, OR OCCUPIED BY THE CONTRACTOR IN CONNECTION WITH ANY PHASE OF THE WORK.

PAVEMENTS, TREES, SHRUBBERY, FENCES, POLES OR OTHER PROPERTY AND SURFACE STRUCTURES WHICH HAVE BEEN DAMAGED, REMOVED, OR DISTURBED BY THE CONTRACTOR, WHETHER DELIBERATELY OR THROUGH FAILURE TO CARRY OUT THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, STATE LAWS, MUNICIPAL ORDINANCES, OR THE SPECIFIC DIRECTION OF THE PROJECT REPRESENTATIVE, THROUGH FAILURE TO EMPLOY USUAL AND REASONABLE SAFEGUARDS SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

WATERING PERMANENT SEEDED AREAS

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER TO PROMOTE GROWTH AND TO CARE FOR PERMANENT SEEDED AREAS PER 659.09: THESE ITEMS WILL BE HANDLED AS CONTINGENCIES.
ITEM 659, WATER 21 M.GAL

INSTALLATION OF RAISED PAVEMENT MARKERS

RAISED PAVEMENT MARKERS (RPM) SHALL CONFORM WITH O.D.O.T. SPECIFICATIONS FOR ITEM 621. INSTALLATION OF RPM'S SHALL BE IN ACCORDANCE WITH O.D.O.T. STANDARD DRAWINGS AND SPECIFICATIONS. ANY REPAIR OR REPLACEMENT REQUIRED TO BE AT CONTRACTORS EXPENSE.

DRIVEWAY PAVEMENT

ALL DRIVEWAYS SHOWN ON THE PLANS TO BE REPLACED SHALL BE BUILT ACCORDING TO THE DETAILS SHOWN ON THE PLAN SHEET. EXISTING CONCRETE DRIVES SHALL BE REPLACED WITH CONCRETE. EXISTING ASPHALT AND/OR GRAVEL DRIVES SHALL BE REPLACED WITH ASPHALT AND/OR GRAVEL AS SHOWN ON THE PLANS.

CONSTRUCTION LAYOUT STAKES

THE CONTRACTOR IS TO PROVIDE ALL LABOR AND MATERIALS REQUIRED TO ADEQUATELY INSURE THE PROPER ELEVATIONS AND LOCATIONS OF ALL ITEMS INCLUDED IN THE WORK. THIS IS TO BE PAID FOR UNDER ITEM 623, LUMP SUM, CONSTRUCTION LAYOUT STAKES. PRIOR TO CONSTRUCTION, BENCH MARKS SHALL BE RE-ESTABLISHED OUTSIDE OF THE CONSTRUCTION LIMITS. THIS WORK SHALL BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL SURVEYOR, REGISTERED IN THE STATE OF OHIO.

PROTECTING EXISTING UNDERGROUND UTILITIES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING, MARKING, OR OTHERWISE DESIGNATING THE LOCATIONS OF THE UNDERGROUND UTILITIES IN THE CONSTRUCTION AREAS IN SUCH A MANNER AS TO INDICATE THEIR COURSE TOGETHER WITH THE APPROXIMATE DEPTH OF WHICH THEY WERE INSTALLED. THE MARKING OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO DAYS AHEAD OF PLANNED CONSTRUCTION. EXTREME CARE SHALL BE TAKEN IN THE VICINITY OF THE EXISTING UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ISOLATE, BRACE, SUPPORT, SHEET, ETC. AND PROTECT THE EXISTING UTILITY FROM MOVING EITHER HORIZONTALLY OR VERTICALLY. IF SUCH MOVEMENT DOES OCCUR DUE TO THE CONTRACTOR'S OPERATIONS, HE SHALL REPAIR THE UTILITY AT HIS EXPENSE. THE CONTRACTOR MAY ELECT TO REMOVE AND RECONSTRUCT PORTIONS OF THE EXISTING UTILITY AT HIS OWN EXPENSE IF HE SO DESIRES.

SHOULD AN UNLOCATED OR AN EXTREME VARIANCE IN LOCATION OF A UTILITY BE ENCOUNTERED DURING EXCAVATION, CONSULT THE OWNER IMMEDIATELY FOR DIRECTIONS.

DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE ENGINEER AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICING HAS BEEN PROVIDED. COOPERATION WITH THE OWNER IN KEEPING RESPECTIVE SERVICES AND FACILITIES IN OPERATION IS ESSENTIAL. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM HIS WORK IN SUCH A MANNER AS NOT TO DAMAGE OR DESTROY ANY EXISTING UTILITY. IF ANY SUCH DAMAGE DOES OCCUR DUE TO THE CONTRACTOR'S OPERATIONS, HE SHALL NOTIFY THE OWNER IMMEDIATELY AND REPLACE THE DAMAGED PORTION IMMEDIATELY, AND AT HIS EXPENSE.

DUST CONTROL

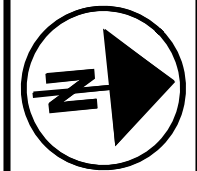
THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING CONTINGENCY QUANTITY HAS BEEN INCLUDED FOR DUST CONTROL PURPOSES:
616, WATER 50 M.GAL

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GAU
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YSY

GENERAL NOTES

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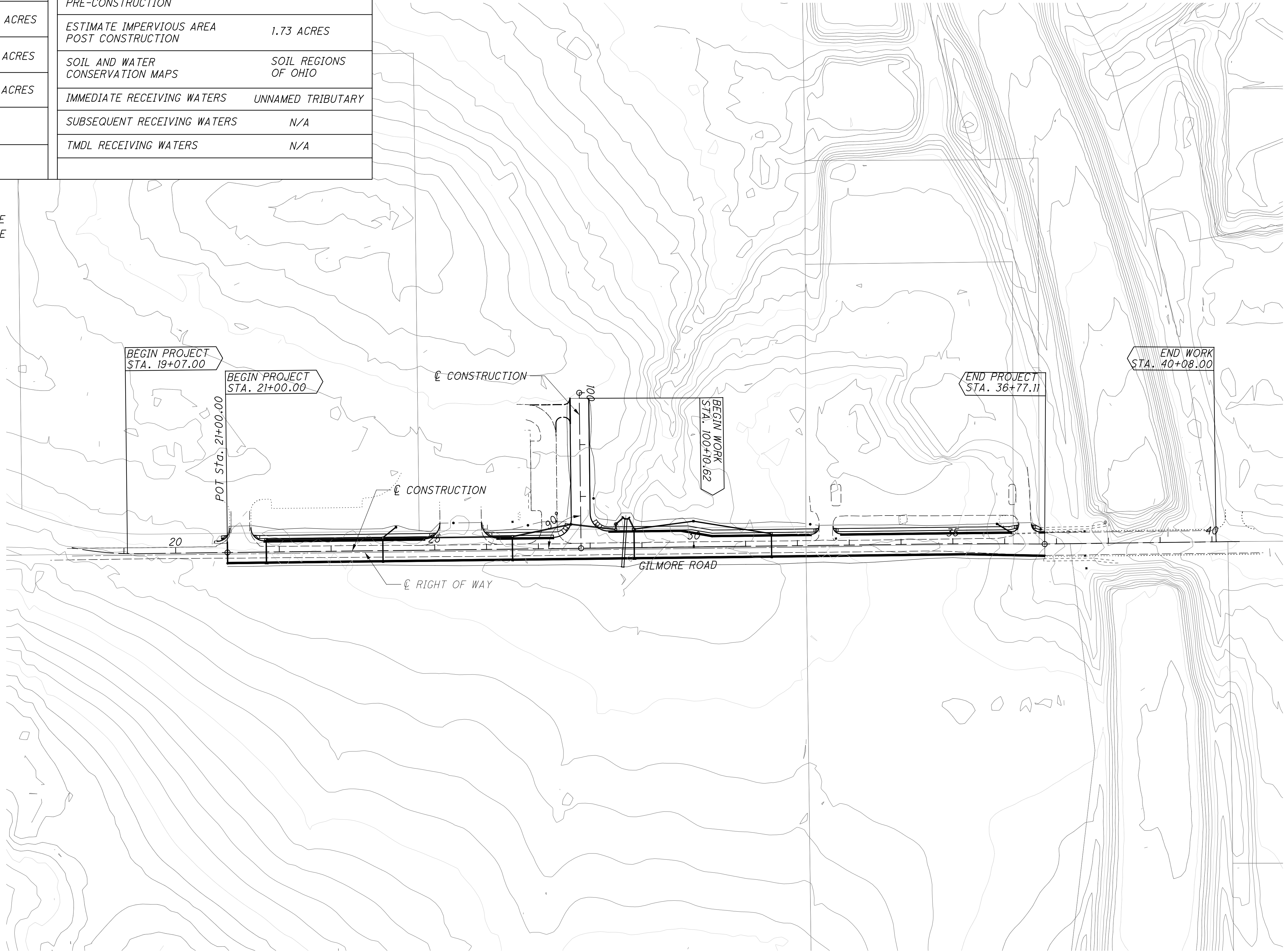


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 HORIZONTAL SCALE IN FEET

PROJECT DATA			
TOTAL AREA (RIGHT-OF-WAY)	2.31 ACRES	ESTIMATE IMPERVIOUS AREA PRE-CONSTRUCTION	1.06 ACRES
PROJECT EARTH DISTURBED AREA	2.97 ACRES	ESTIMATE IMPERVIOUS AREA POST CONSTRUCTION	1.73 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	0.15 ACRES	SOIL AND WATER CONSERVATION MAPS	SOIL REGIONS OF OHIO
NOTICE OF INTENT EARTH DISTURBED AREA	3.12 ACRES	IMMEDIATE RECEIVING WATERS	UNNAMED TRIBUTARY
RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	0.76	SUBSEQUENT RECEIVING WATERS	N/A
RUNOFF COEFFICIENT FOR POST CONSTRUCTION SITE	0.84	TMDL RECEIVING WATERS	N/A

PROJECT DESCRIPTION

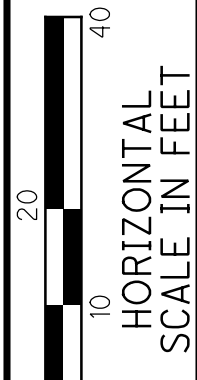
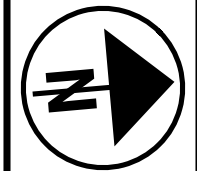
THE ROADWAY IMPROVEMENT INVOLVES THE RECONSTRUCTION AND WIDENING TO INCLUDE A TWO WAY LEFT TURN LANE TO GILMORE ROAD FOR APPROXIMATELY 1,600 LINEAL FEET SOUTH OF THE S.R. 129 OVERPASS. THE PROJECT WILL INCLUDE NEW CURB AND STORM SEWERS.



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PROJECT SITE PLAN

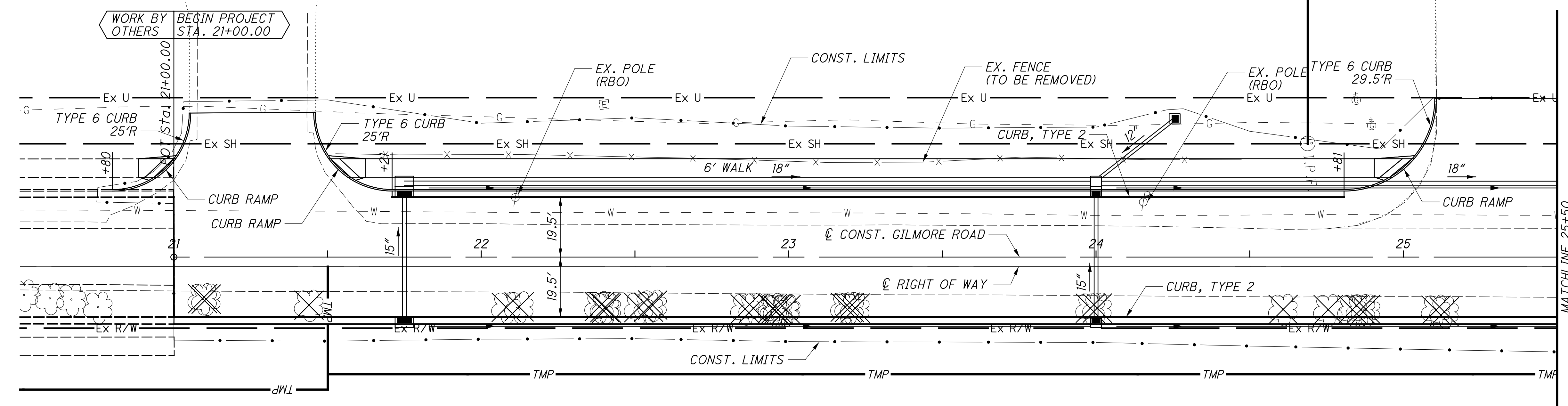
BUT - TR99 - 0.519



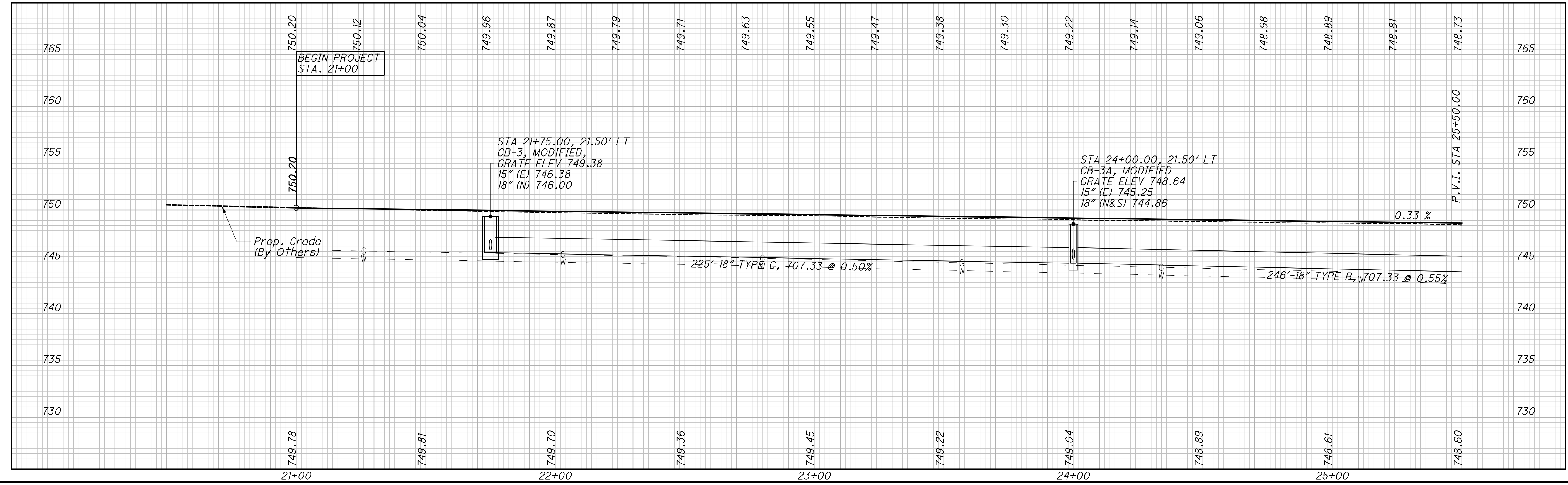
CALCULATED
GAU
CHECKED
YSY

**PLAN AND PROFILE - GILMORE ROAD
STA. 21+00 TO STA. 25+50**

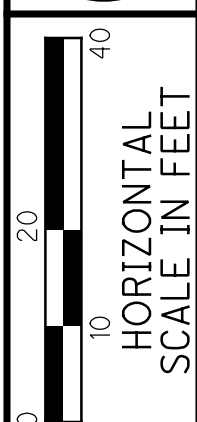
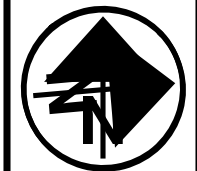
BUT-TR99 - 0.519



LEGEND
 (ATG) ADJUST TO GRADE
 (RBO) RELOCATE BY OTHERS



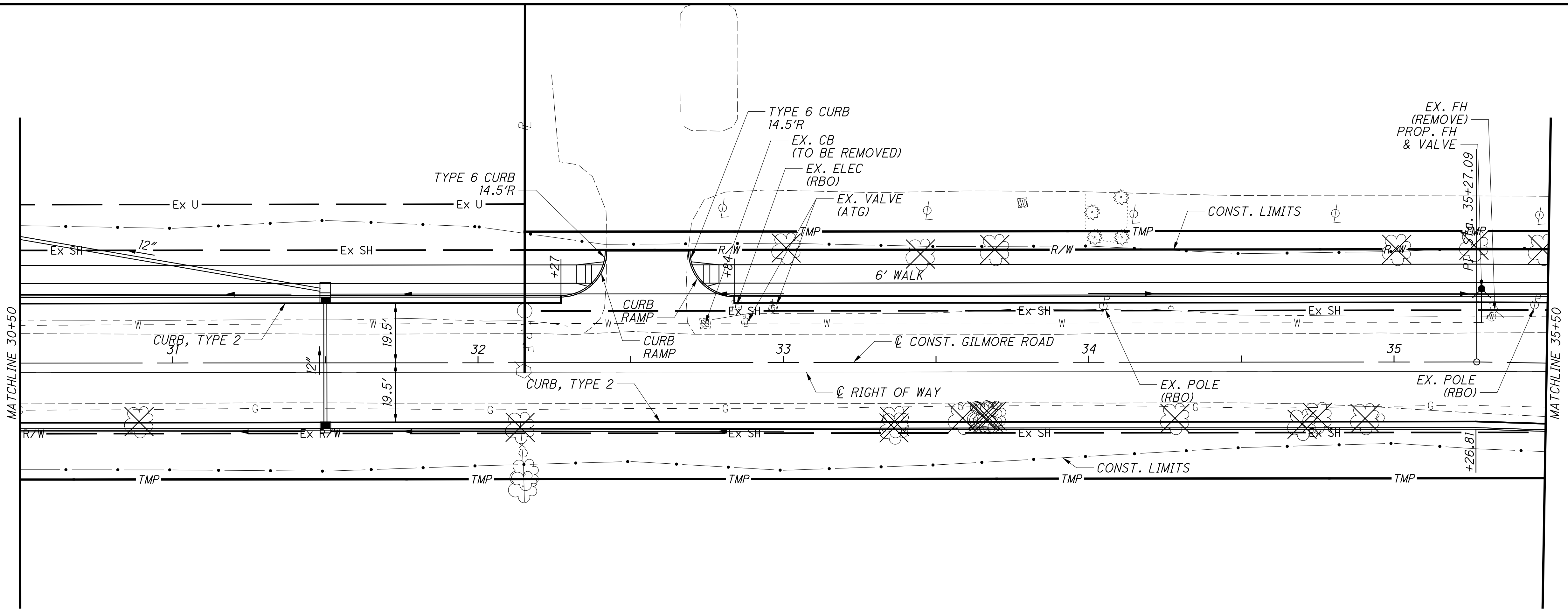
H:\2015\150588\006\050319\Design\Roadway\Sheet\050309_GPO01.dgn Sheet 11/25/2019 3:42:42 PM gurasek



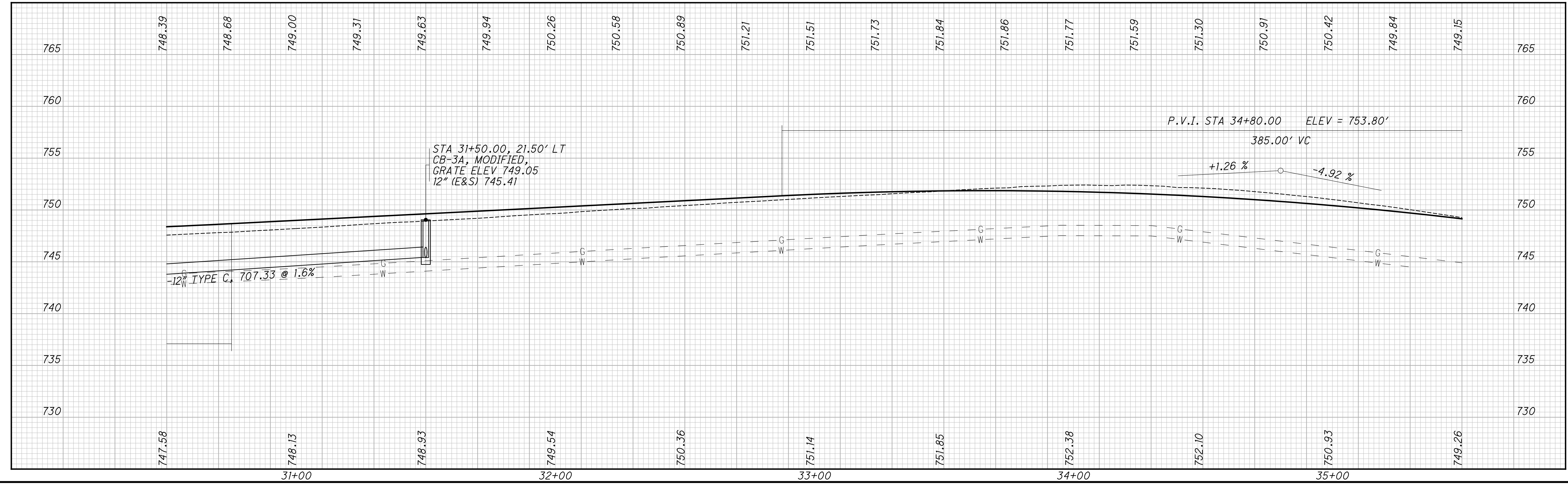
CALCULATED GAU
CHECKED YSY

**PLAN AND PROFILE - GILMORE ROAD
STA. 30+50 TO STA. 35+50**

BUT-TR99-0.519

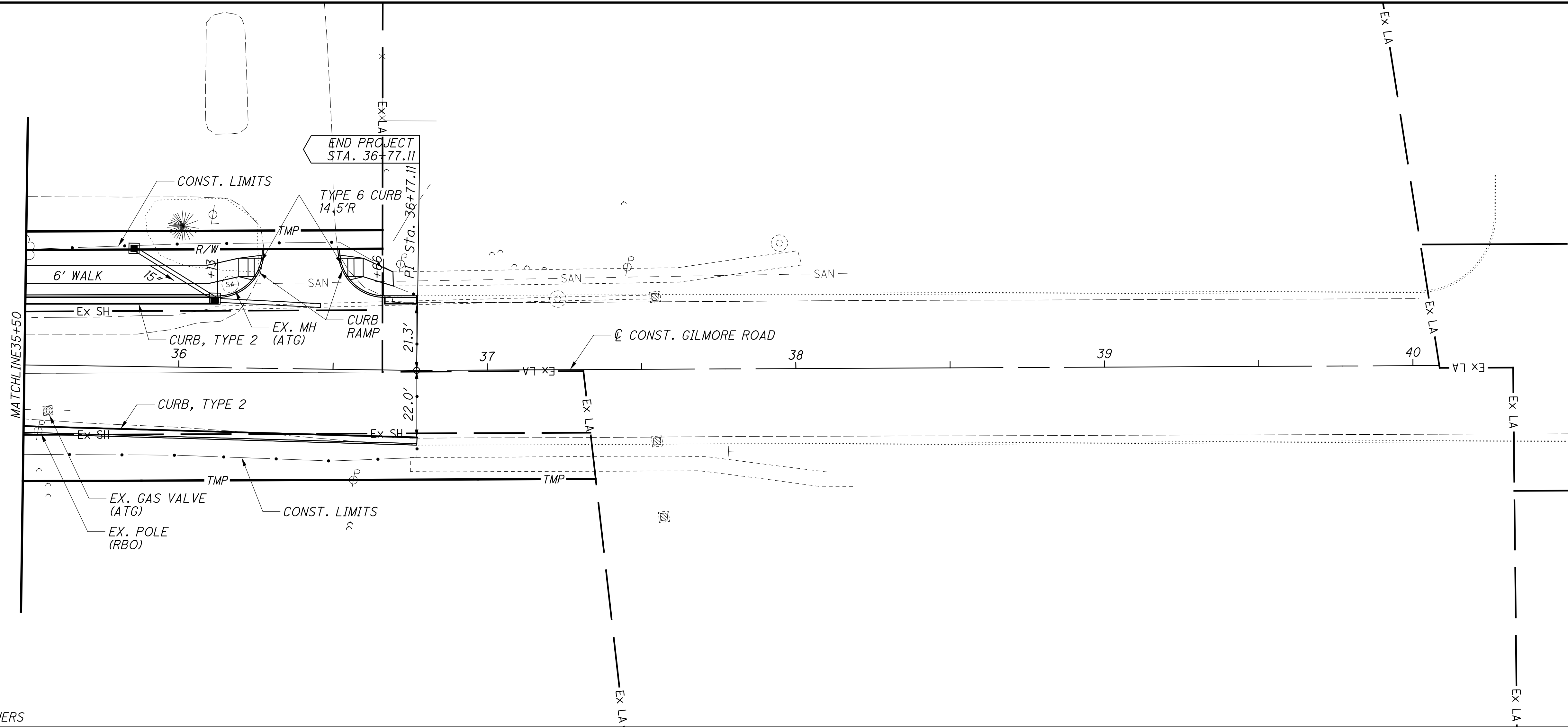


LEGEND
 (ATG) ADJUST TO GRADE
 (RBO) RELOCATE BY OTHERS
 (RAR) REMOVE AND RESET

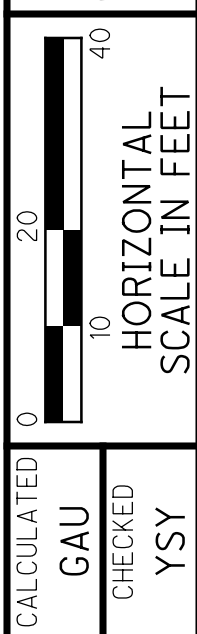
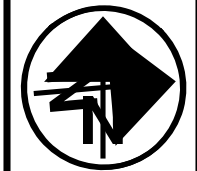


H:\2015\150588\006\050319\Design\Roadway\Sheets\050309_GPO03.dgn Sheet 11/25/2019 3:42:49 PM gur-asek

H:\2015\150588\006\050319\Design\Roadway\Sheets\050309_GPO04.dgn Sheet 11/25/2019 3:42:52 PM gur-asek



LEGEND
 (ATG) ADJUST TO GRADE
 (RBO) RELOCATE BY OTHERS

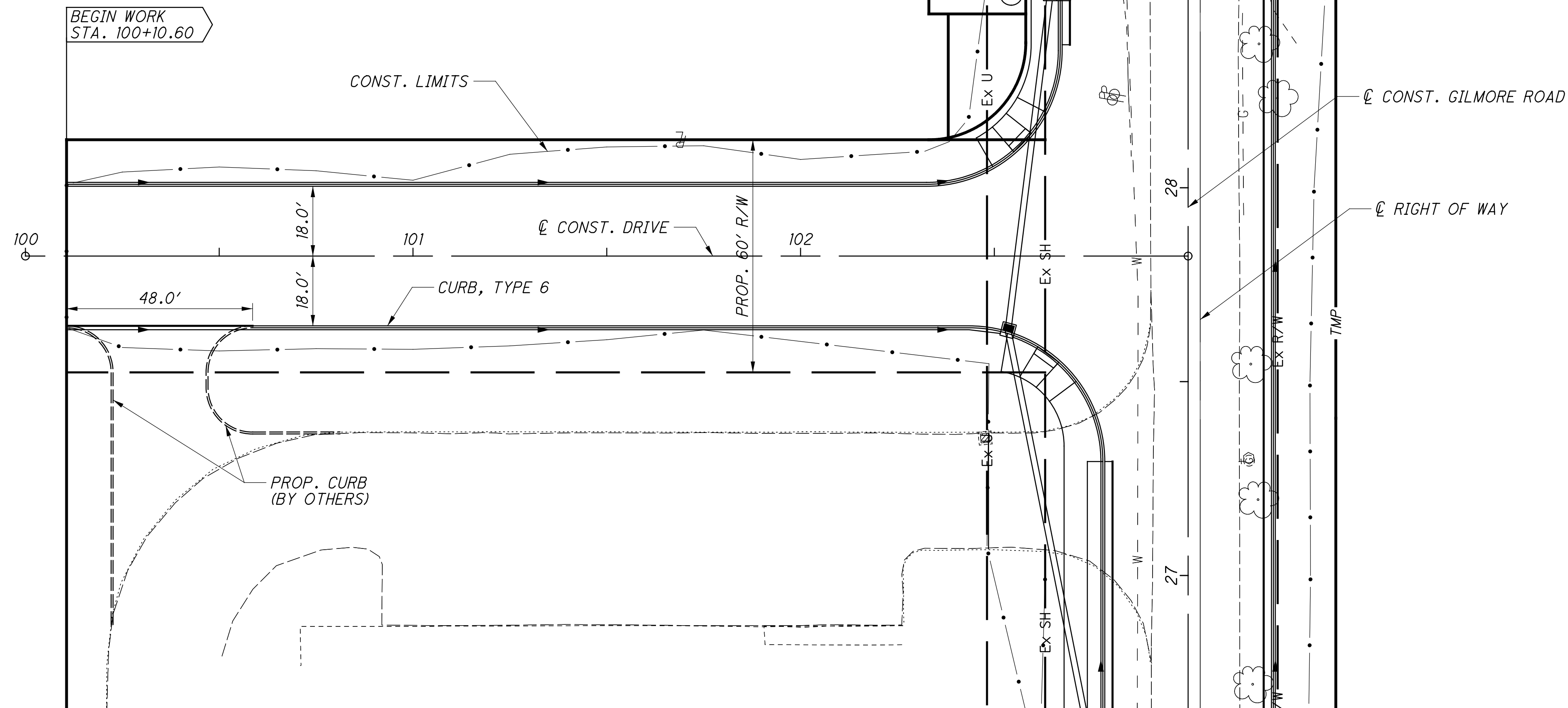
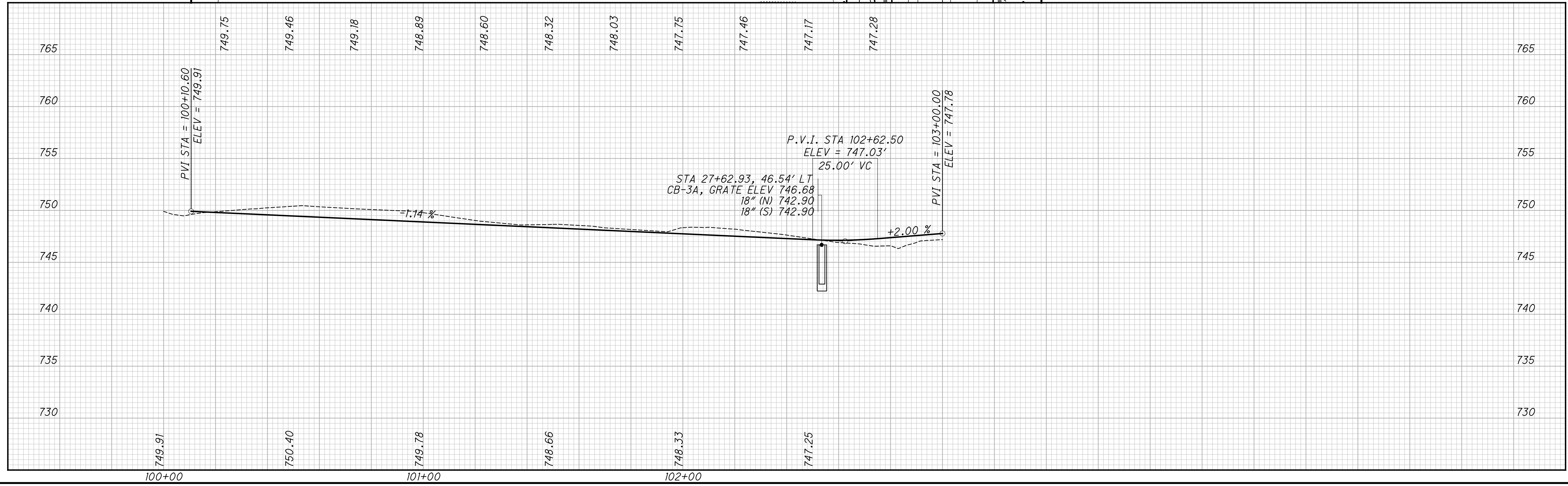


CALCULATED GAU
 CHECKED YSY

**PLAN AND PROFILE - GILMORE ROAD
 STA. 35+50 TO STA. 38+00**

BUT-TR99-0.519

H:\2015\150588\006\050319\Design\Roadway\Sheets\050309_GPO05.dgn Sheet 11/25/2019 3:42:55 PM gurasek



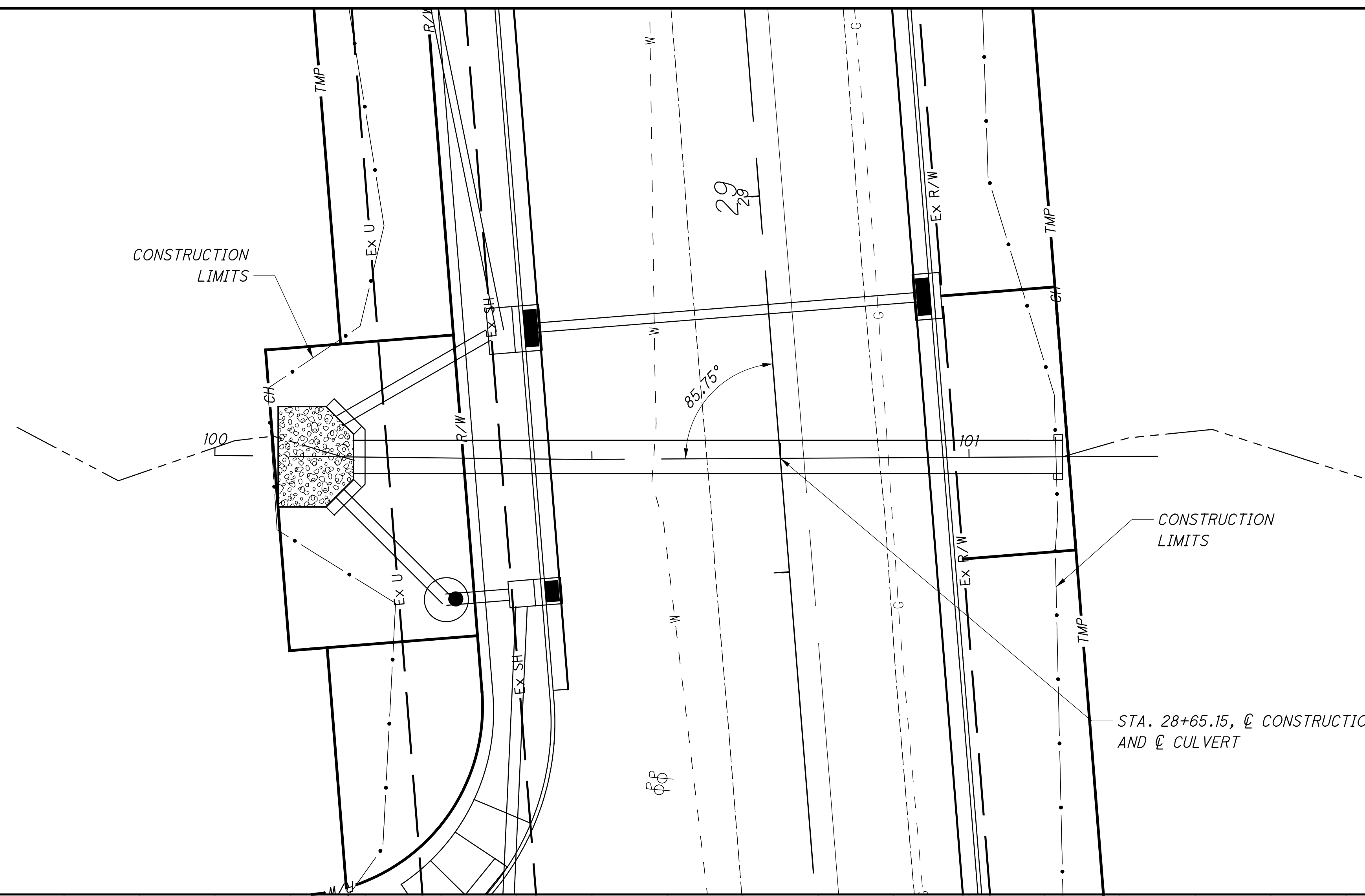
CALCULATED
GAU
CHECKED
YSY

0 20 40
HORIZONTAL
SCALE IN FEET

PLAN AND PROFILE - DRIVE
STA. 100+00 TO STA. 103+00

BUT - TR99 - 0.519

H:\2015\150588\006\050319\Design\Drainage\Sheets\050319_DC001.dgn Sheet 11/25/2019 3:42:58 PM gurasek

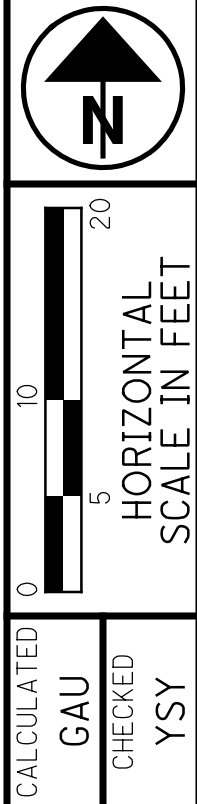
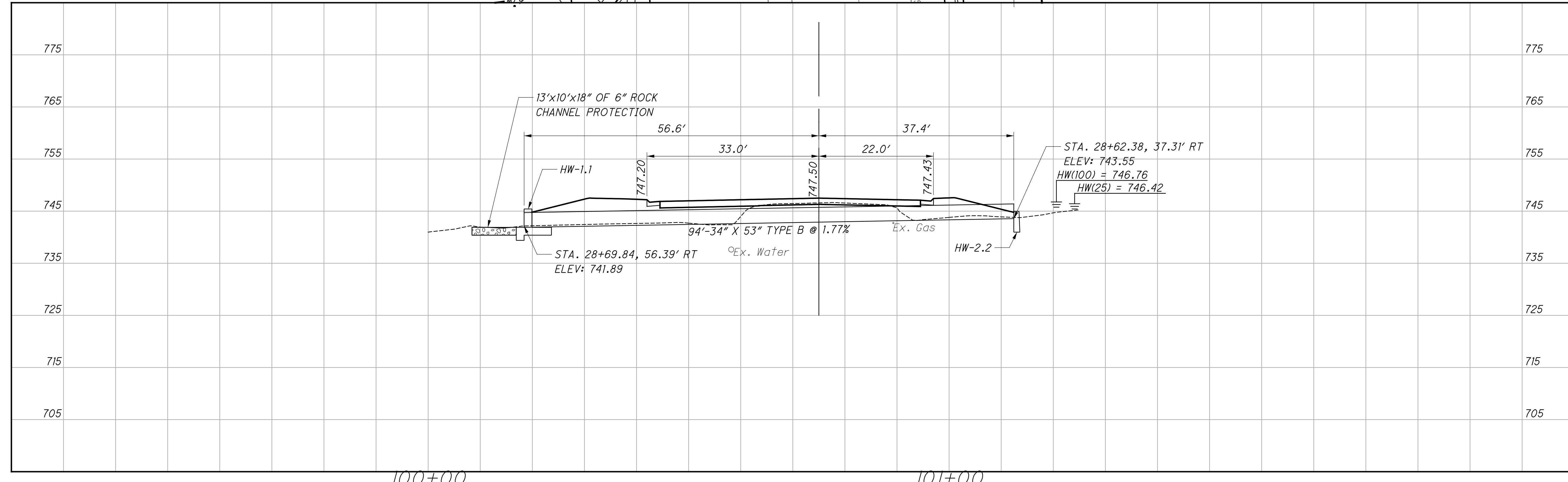


DRAINAGE AREA	
Q10 45.40 CFS	Q25 52.91 CFS
V10 4.61 FPS	V25 5.38 FPS
HW10 746.16 FT	H25 746.42 FT

EXISTING CULVERT	
TYPE: 30" X 42" METAL ARCH	
SPAN: 33' F/F CULVERT	
ROADWAY: 23'	
ALIGNMENT: TANGENT	
APPROACH SLAB: NONE	
SUPERELEVATION: NONE	
SKEW: 14°14'36"	
CONDITION: POOR	
LOADING: N/A	

PROPOSED CULVERT	
TYPE: 34"X53" ELLIPTICAL CONCRETE	
SPAN: 94' F/F CULVERT	
ROADWAY: 55'	
ALIGNMENT: TANGENT	
APPROACH SLAB: NONE	
SUPERELEVATION: NONE	
SKEW: 4°14'46"	

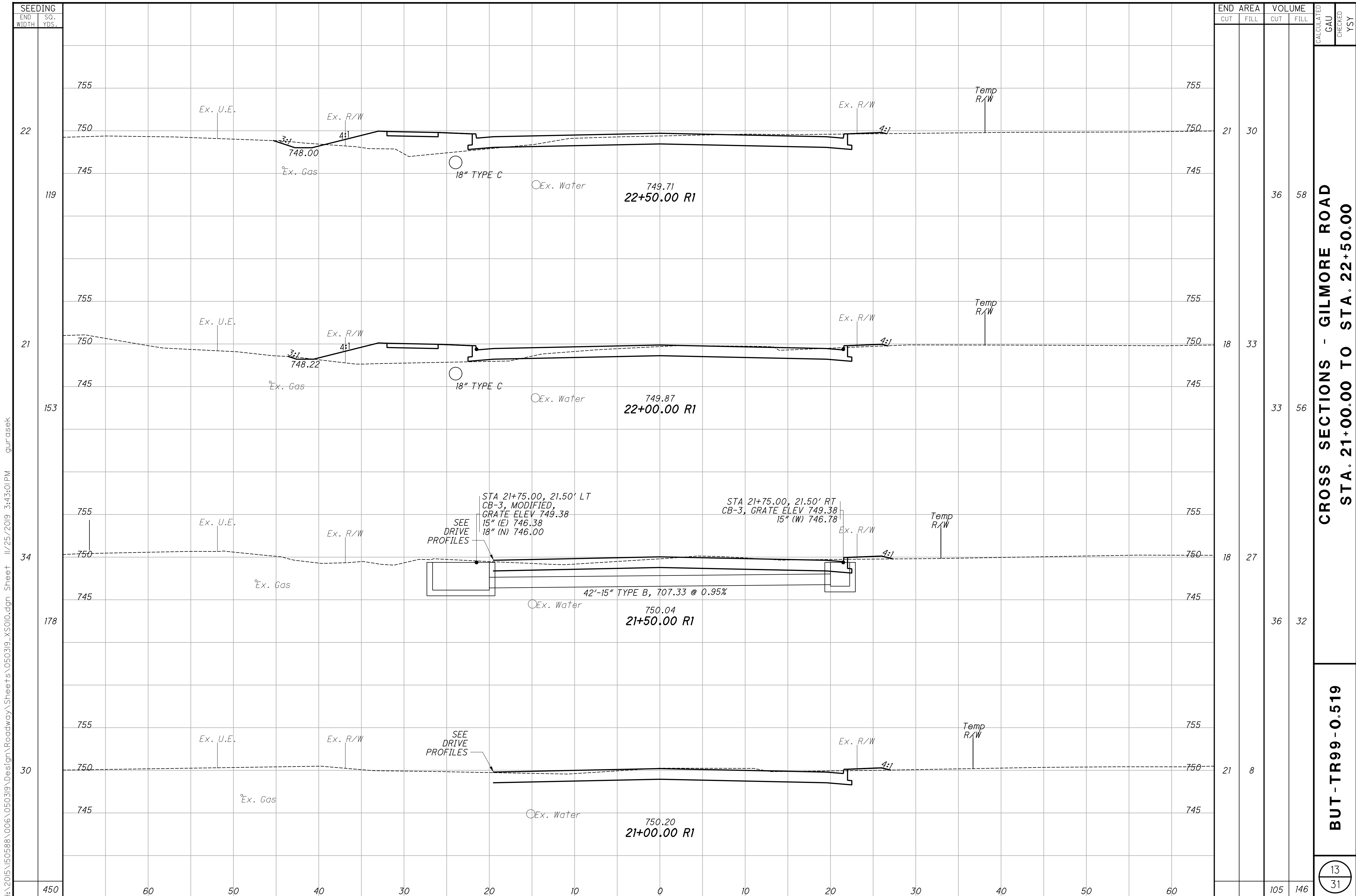
STA. 28+65.15, @ CONSTRUCTION AND @ CULVERT



CALCULATED
GAU
CHECKED
YSY

**CULVERT DETAILS
GILMORE ROAD**

BUT - TR99 - 0.519

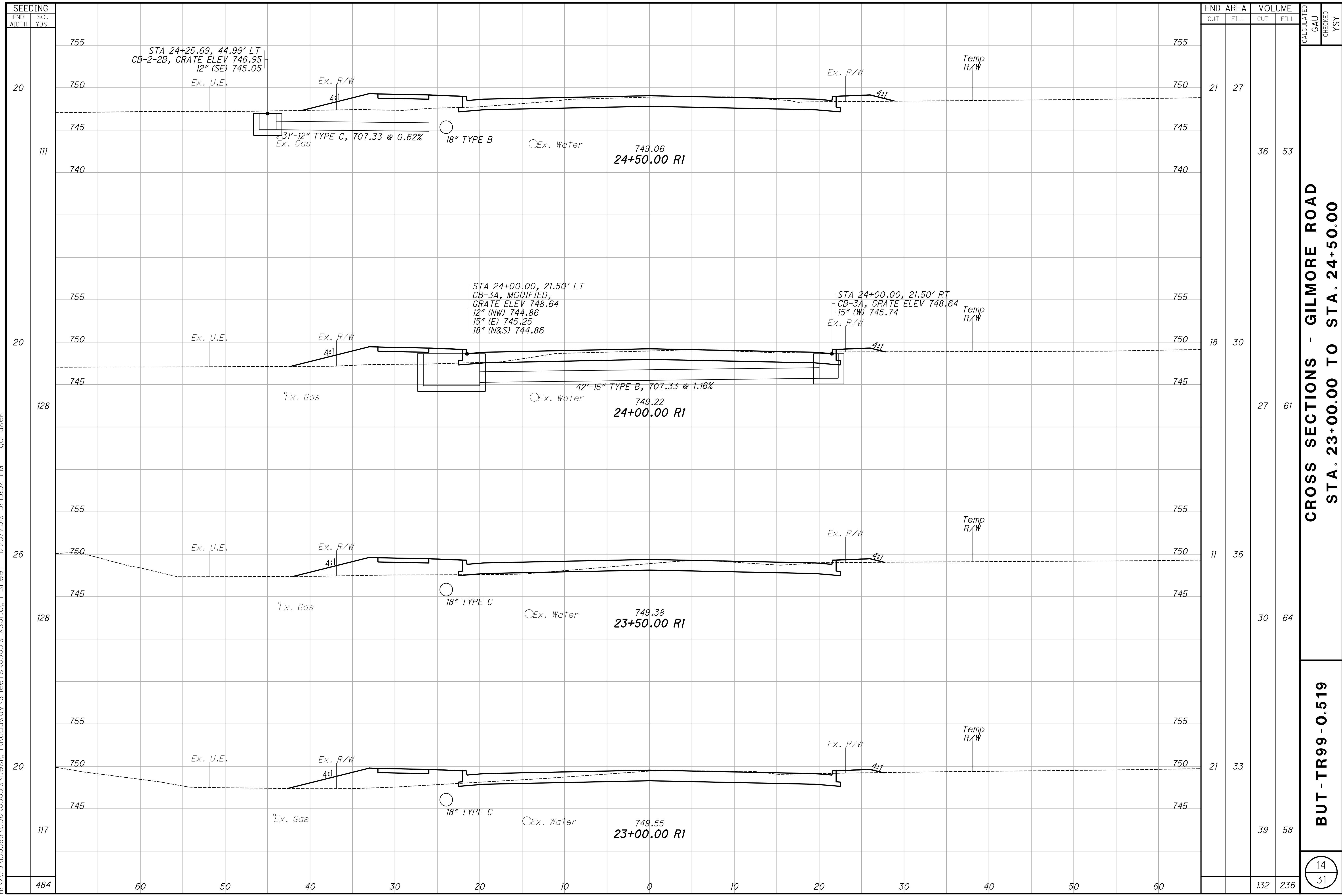


H:\2015\150588\006\050319\Design\Roadway\Sheets\050319_X5010.dgn Sheet 11/25/2019 3:43:01PM gurasek

SEEDING	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
22	21	30	36	58
21	18	33	33	56
34	18	27	36	32
30	21	8		
450			105	146

CROSS SECTIONS - GILMORE ROAD
STA. 21+00.00 TO STA. 22+50.00
BUT-TR99-0.519
 13
 31

H:\2015\1505688\006\050319\Design\Roadway\Sheets\050319_X501.dgn Sheet 11/25/2019 3:43:02 PM gurasek



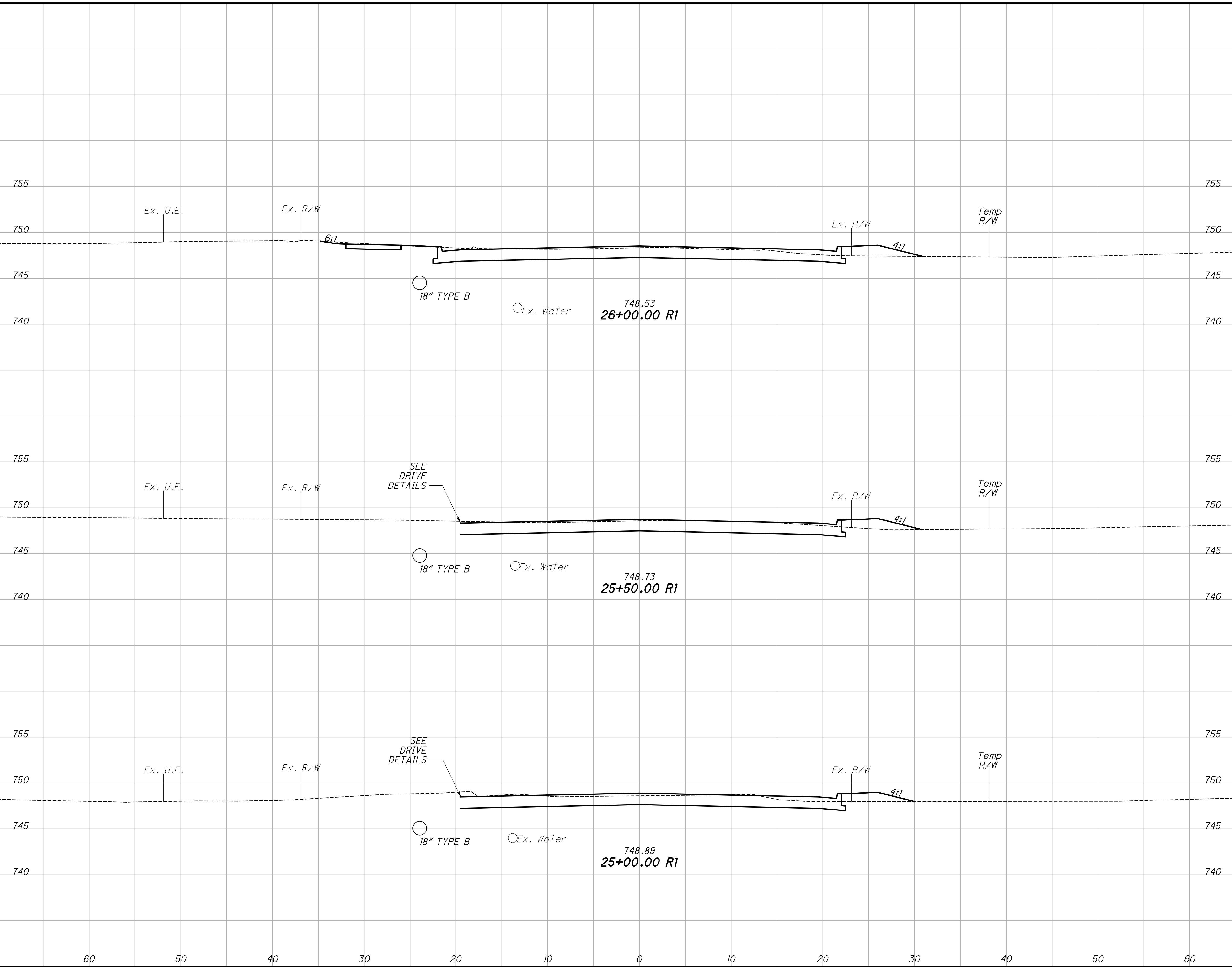
END STA	AREA		VOLUME		CALCULATED GAU	CHECKED YSY
	CUT	FILL	CUT	FILL		
24+50.00	21	27	36	53		
24+00.00	18	30	27	61		
23+50.00	11	36	30	64		
23+00.00	21	33	39	58		
TOTAL			132	236		

**CROSS SECTIONS - GILMORE ROAD
STA. 23+00.00 TO STA. 24+50.00**

BUT - TR99 - 0.519

H:\2015\150588\006\050319\Design\Roadway\Sheets\050319_X5012.dgn Sheet 11/25/2019 3:43:02 PM gurasek

SEEDING	
END WIDTH	SO. YDS.
16	69
9	47
8	78
194	



END AREA	VOLUME	CALCULATED	
		CUT	FILL
24	7	34	13
13	7	22	12
11	6	30	31
		86	56

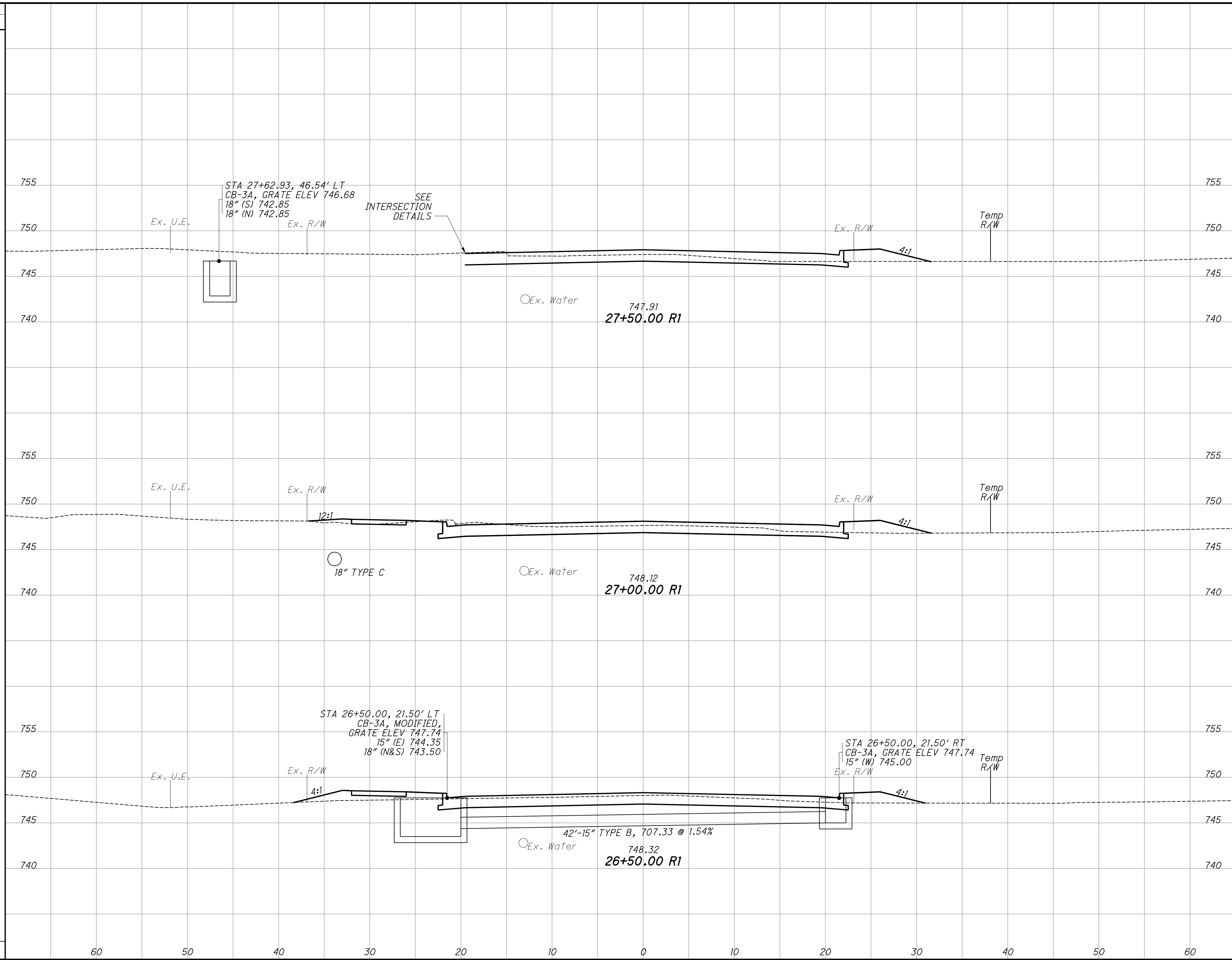
CROSS SECTIONS - GILMORE ROAD
STA. 25+00.00 TO STA. 26+00.00

BUT - TR99 - 0.519

15
31

H:\2015\50588\006\050319\Design\Roadway\Sheets\050319_X5013.dgn Sheet 11/25/2019 3:43:03 PM gurasek

SEEDING	
END WIDTH	SO. YDS.
10	81
19	108
20	100
289	

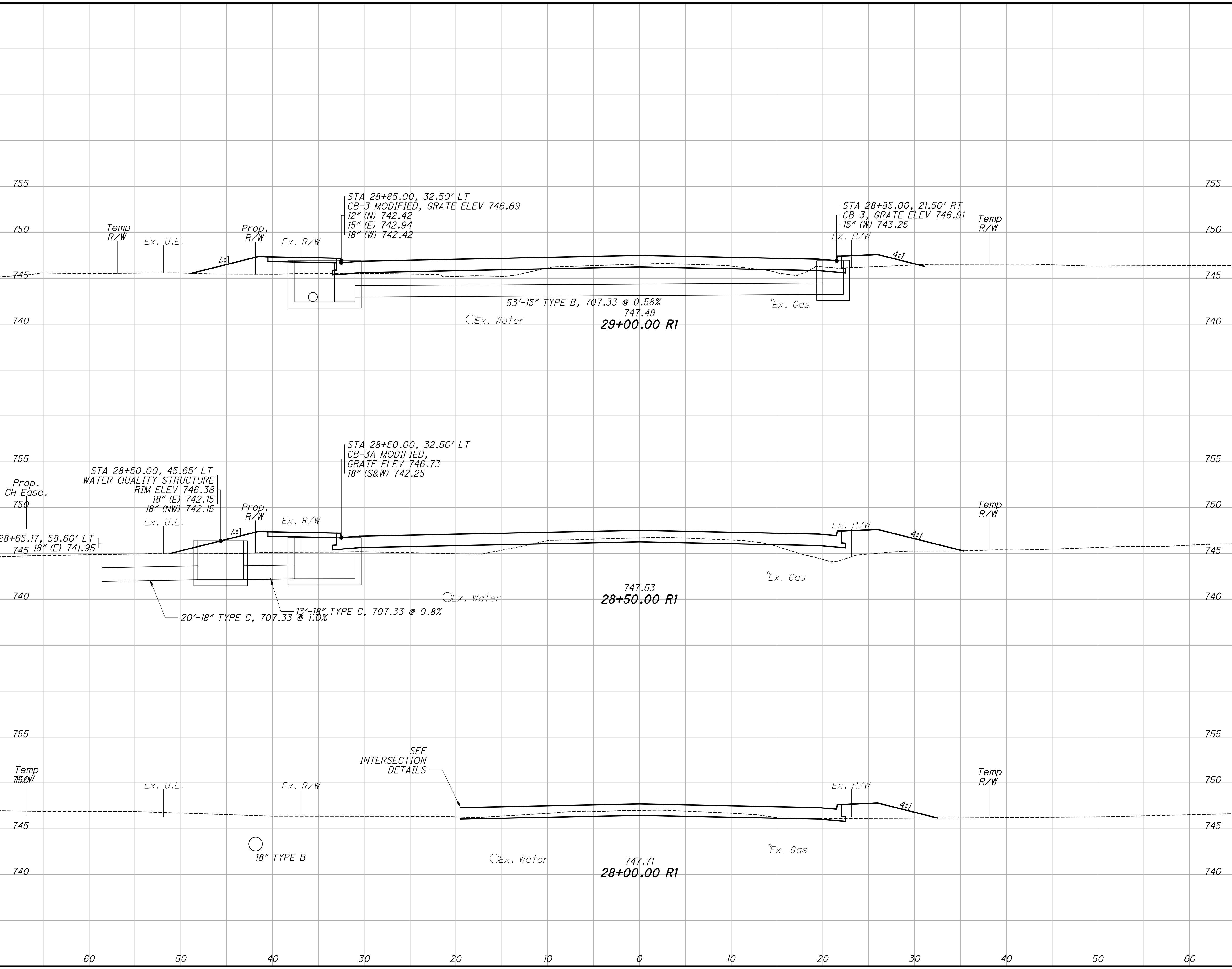


END AREA		VOLUME	
CUT	FILL	CUT	FILL
14	14	31	22
20	10	36	26
19	18	40	23
		107	71

CROSS SECTIONS - GILMORE ROAD
STA. 26+50.00 TO STA. 27+50.00
BUT - TR99 - 0.519

H:\2015\150588\006\050319\Design\Roadway\Sheets\050319_X5014.dgn Sheet 11/25/2019 3:43:04 PM gurasek

SEEDING	END	
	WIDTH	SO. YDS.
18		
122		
26		
103		
11		
58		
283		

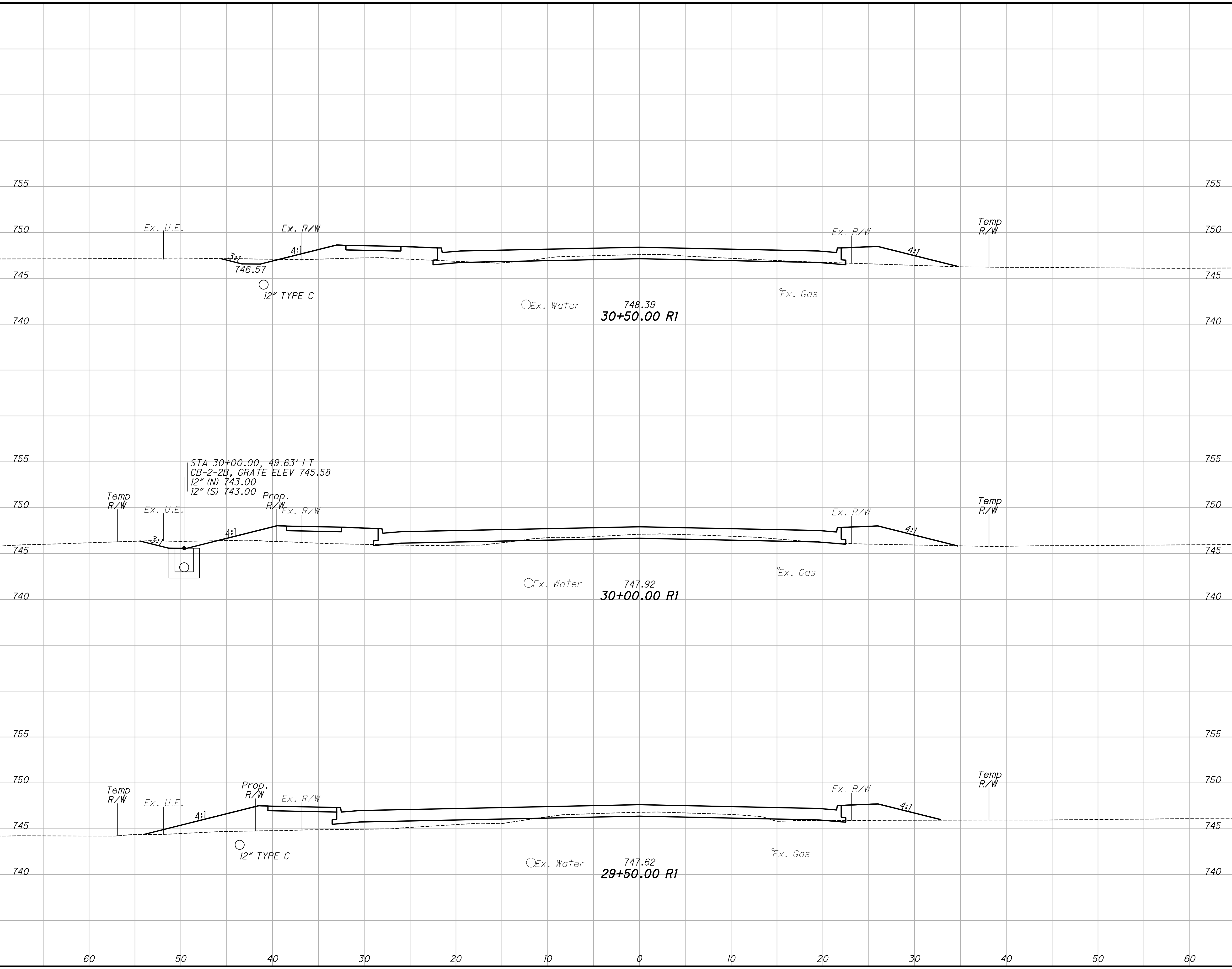


END AREA	VOLUME	
	CUT	FILL
2	60	
2	133	
0	84	
3	89	
3	12	
16	24	
21	246	

CROSS SECTIONS - GILMORE ROAD
STA. 28+00.00 TO STA. 29+00.00
BUT-TR99-0.519
 CALCULATED GAU
 CHECKED YSY
 17
 31

H:\2015\150588\006\050319\Design\Roadway\Sheets\050319_X5015.dgn Sheet 11/25/2019 3:43:05 PM gurasek

SEEDING	
END WIDTH	SO. YDS.
30	172
32	158
25	119
449	



END AREA		VOLUME	
CUT	FILL	CUT	FILL
6	48	6	105
1	65	2	127
1	72	3	122
		11	354

CROSS SECTIONS - GILMORE ROAD
STA. 29+50.00 TO STA. 30+50.00

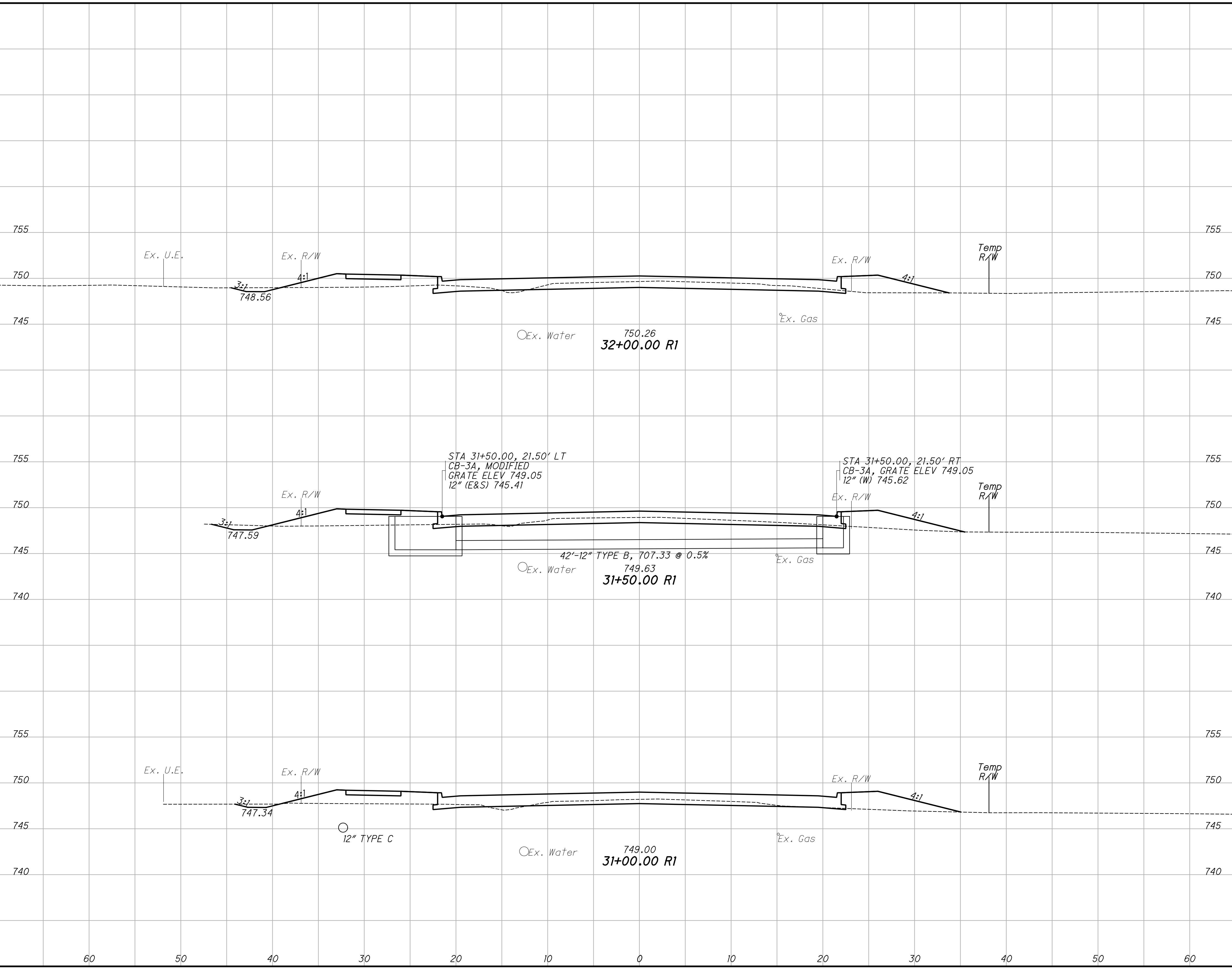
BUT-TR99-0.519

CALCULATED	GAU
CHECKED	YSY

18
31

H:\2015\150588\006\050319\Design\Roadway\Sheets\050319_X5016.dgn Sheet 11/25/2019 3:43:06 PM gurcasek

SEEDING	
END WIDTH	SO. YDS.
60	29
50	172
40	33
30	175
20	30
10	167
0	514



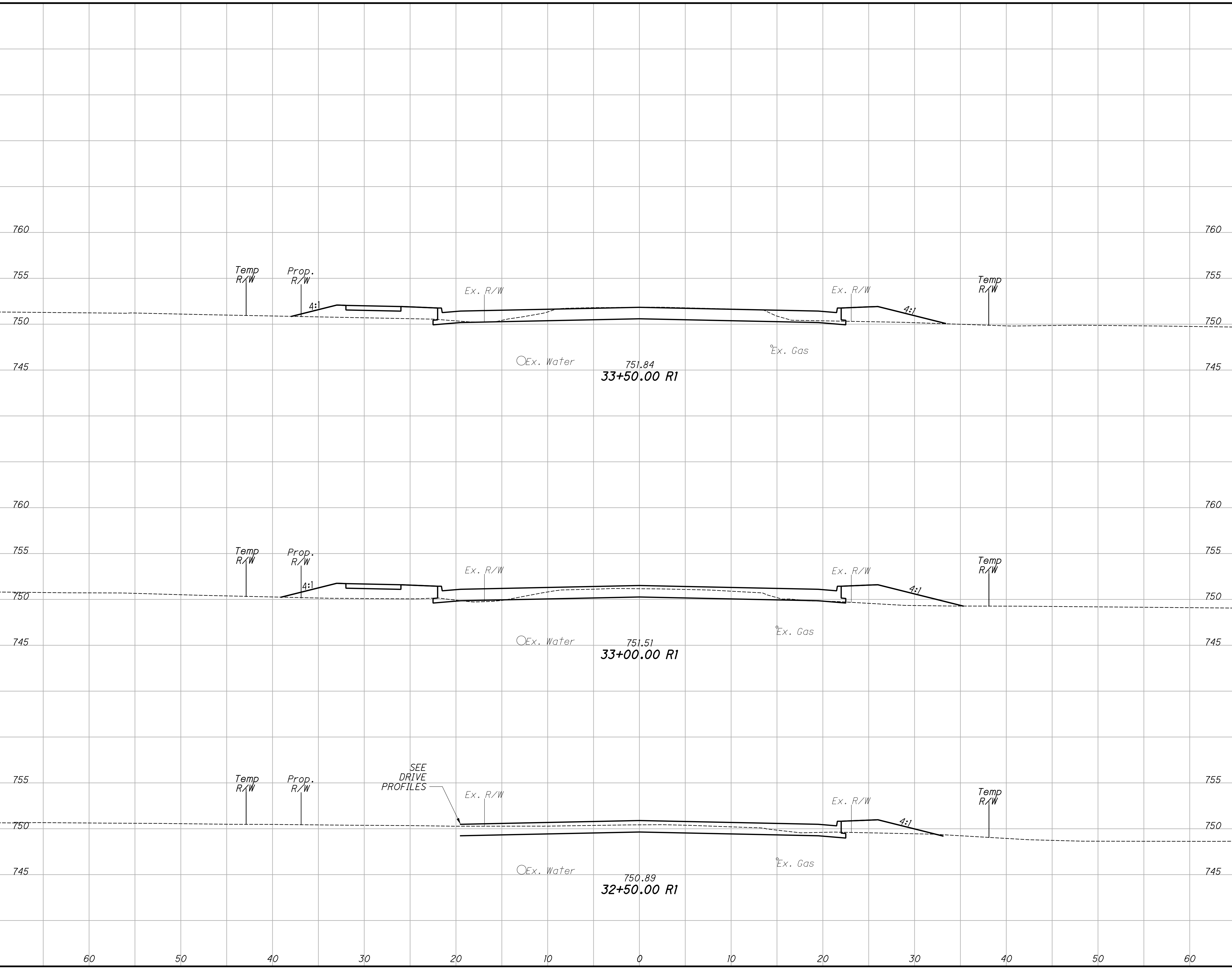
END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	GAU	CHECKED
10	37	15	79		
6	48	8	87		
3	46	8	87		
		31	253		

CROSS SECTIONS - GILMORE ROAD
STA. 31+00.00 TO STA. 32+00.00
BUT - TR99 - 0.519

19
31

H:\2015\50588\006\050319\Design\Roadway\Sheets\050319_X5017.dgn Sheet 11/25/2019 3:43:07 PM gurasek

SEEDING	
END WIDTH	SO. YDS.
336	
108	
10	
97	
25	
131	
22	



END AREA		VOLUME	
CUT	FILL	CUT	FILL
14	27	17	58
4	36	16	43
13	10	21	44
		54	145

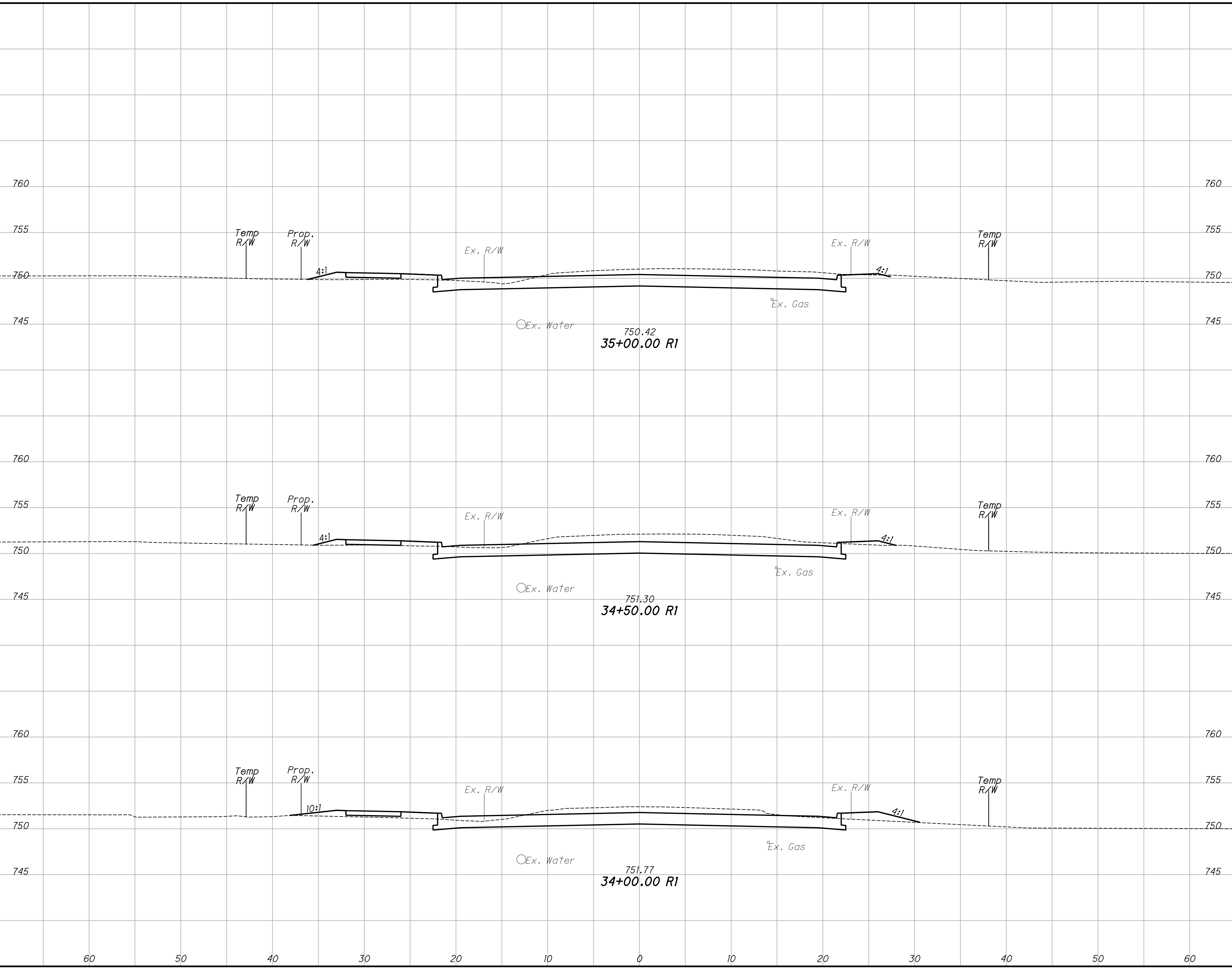
CROSS SECTIONS - GILMORE ROAD
STA. 32+50.00 TO STA. 33+50.00

BUT-TR99-0.519

20
31

H:\2015\150588\006\050319\Design\Roadway\Sheets\050319_X5018.dgn Sheet 11/25/2019 3:43:07 PM gurasek

SEEDING	
END WIDTH	SO. YDS.
19	92
14	92
19	114
298	

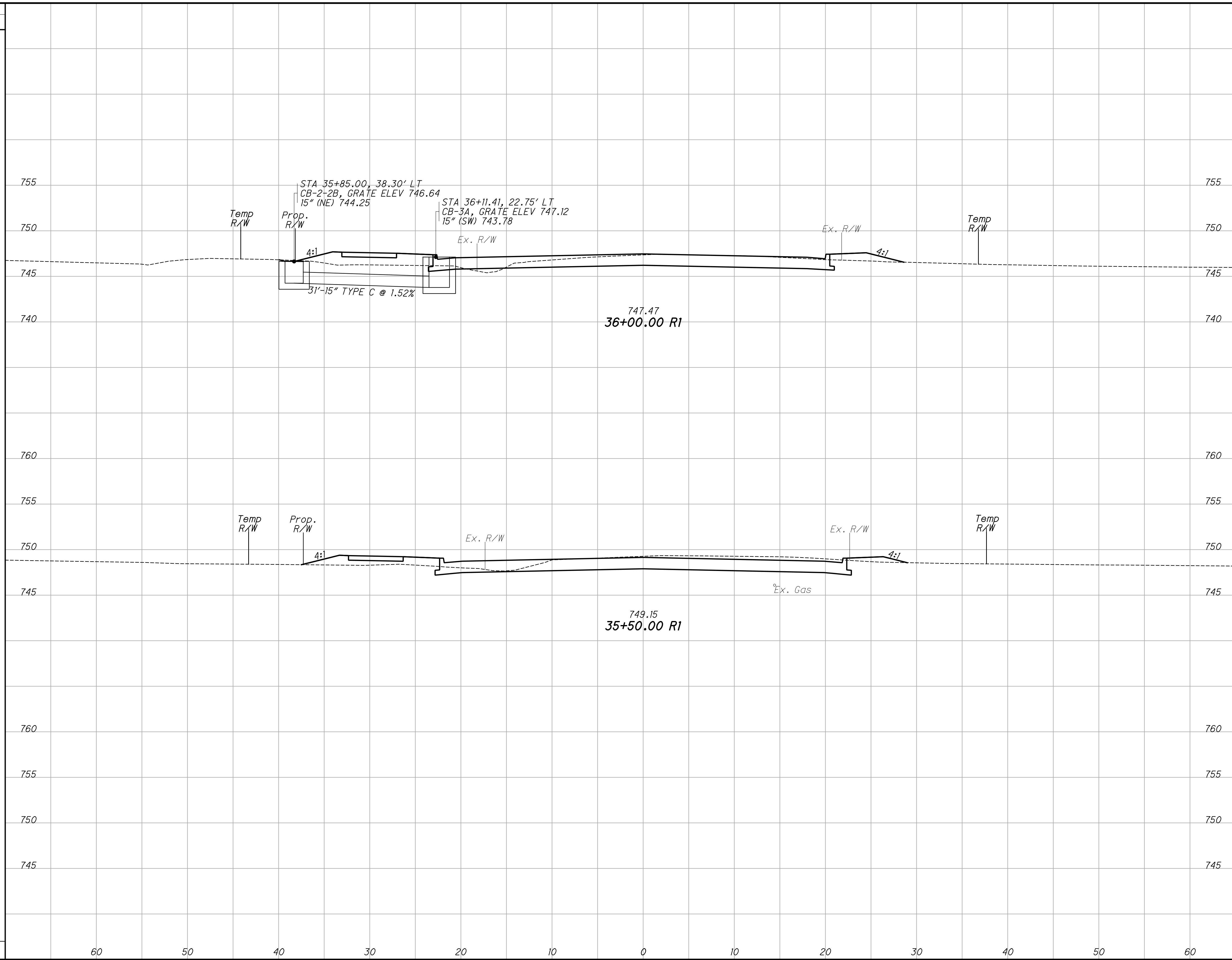


END AREA		VOLUME	
CUT	FILL	CUT	FILL
43	6	92	10
56	5	93	15
44	11	54	35
		239	60

CROSS SECTIONS - GILMORE ROAD
STA. 34+00.00 TO STA. 35+00.00
BUT-TR99-0.519
 CALCULATED GAU CHECKED YSY
 21
 31

H:\2015\150588\006\050319\Design\Roadway\Sheets\050319_X5019.dgn Sheet 11/25/2019 3:43:08 PM gurasek

SEEDING	
END WIDTH	SO. YDS.
19	97
16	97
194	

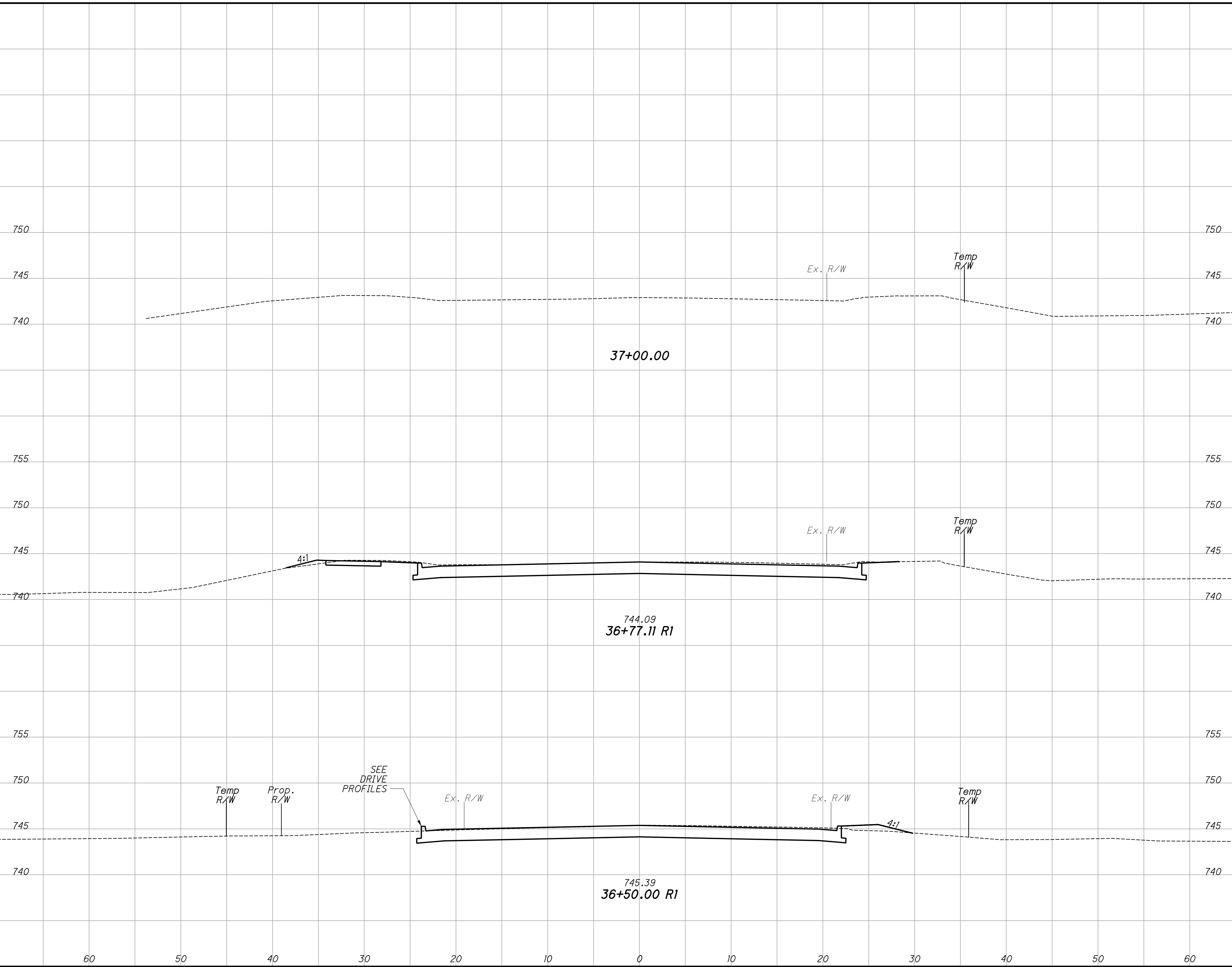


END AREA		VOLUME	
CUT	FILL	CUT	FILL
5	19	28	29
25	12	63	17
		91	46

CROSS SECTIONS - GILMORE ROAD
STA. 35+50.00 TO STA. 36+00.00
BUT-TR99-0.519
 CALCULATED GAU CHECKED YSY
 22
 31

H:\2015\150588\006\050319\Design\Roadway\Sheets\050319_X5020.dgn Sheet 11/25/2019 3:43:09 PM gurasek

SEEDING	
END WIDTH	SO. YDS.
105	
75	
8	
30	
12	

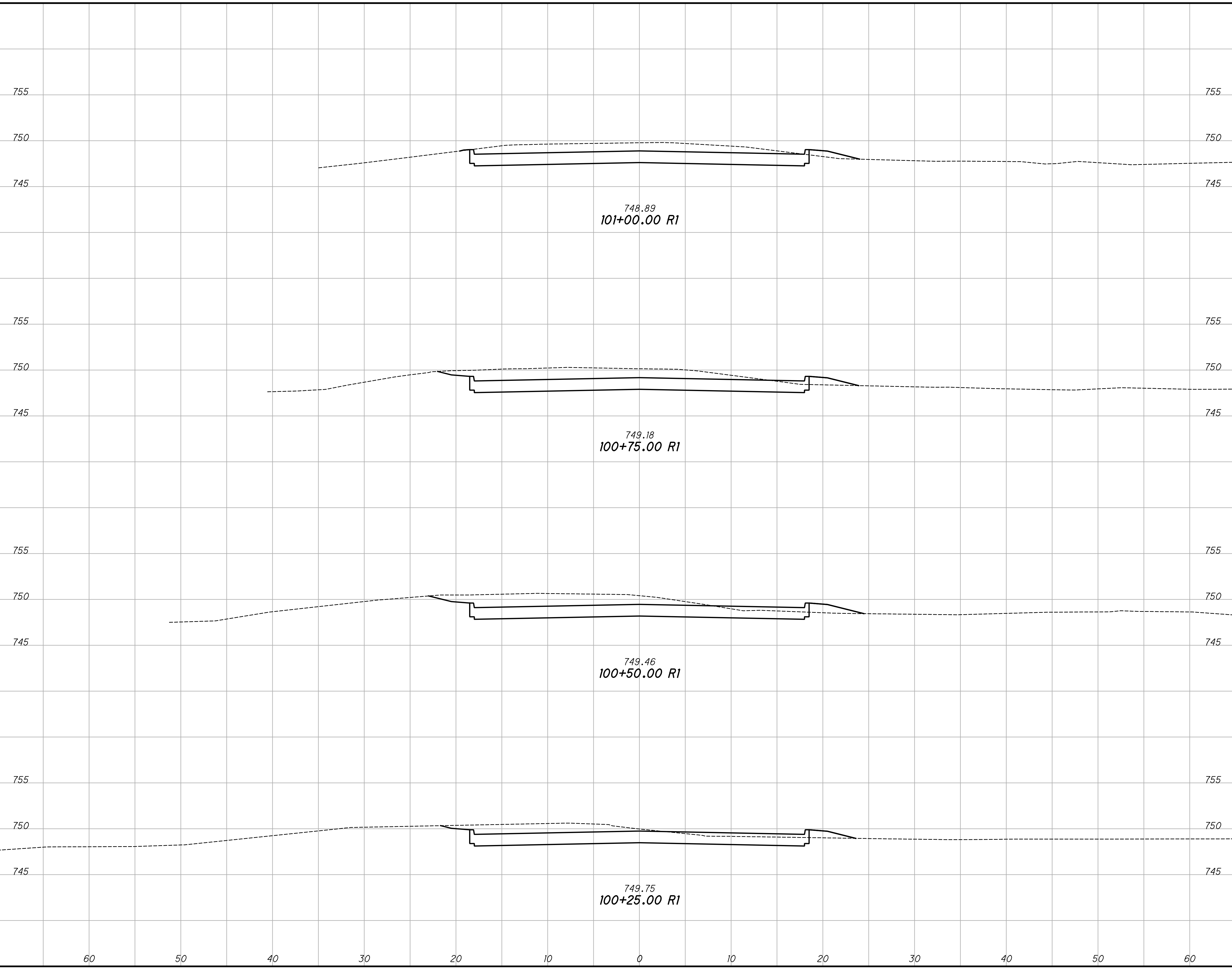


END AREA		VOLUME	
CUT	FILL	CUT	FILL
21	1	23	2
24	3	27	20
		50	22

CROSS SECTIONS GILMORE ROAD
STA. 36+50.00 TO STA. 37+00.00
BUT-TR99-0.519
 CALCULATED GAU CHECKED YSY
 23
 31

H:\2015\150588\006\050319\Design\Roadway\Sheets\050319_X5030.dgn Sheet 11/25/2019 3:43:10 PM gurasek

SEEDING	
END WIDTH	SO. YDS.
7	22
9	28
11	25
7	10
85	



END AREA		VOLUME	
CUT	FILL	CUT	FILL
75	3	71	3
79	3	71	3
74	4	62	3
60	3	28	1
		232	10

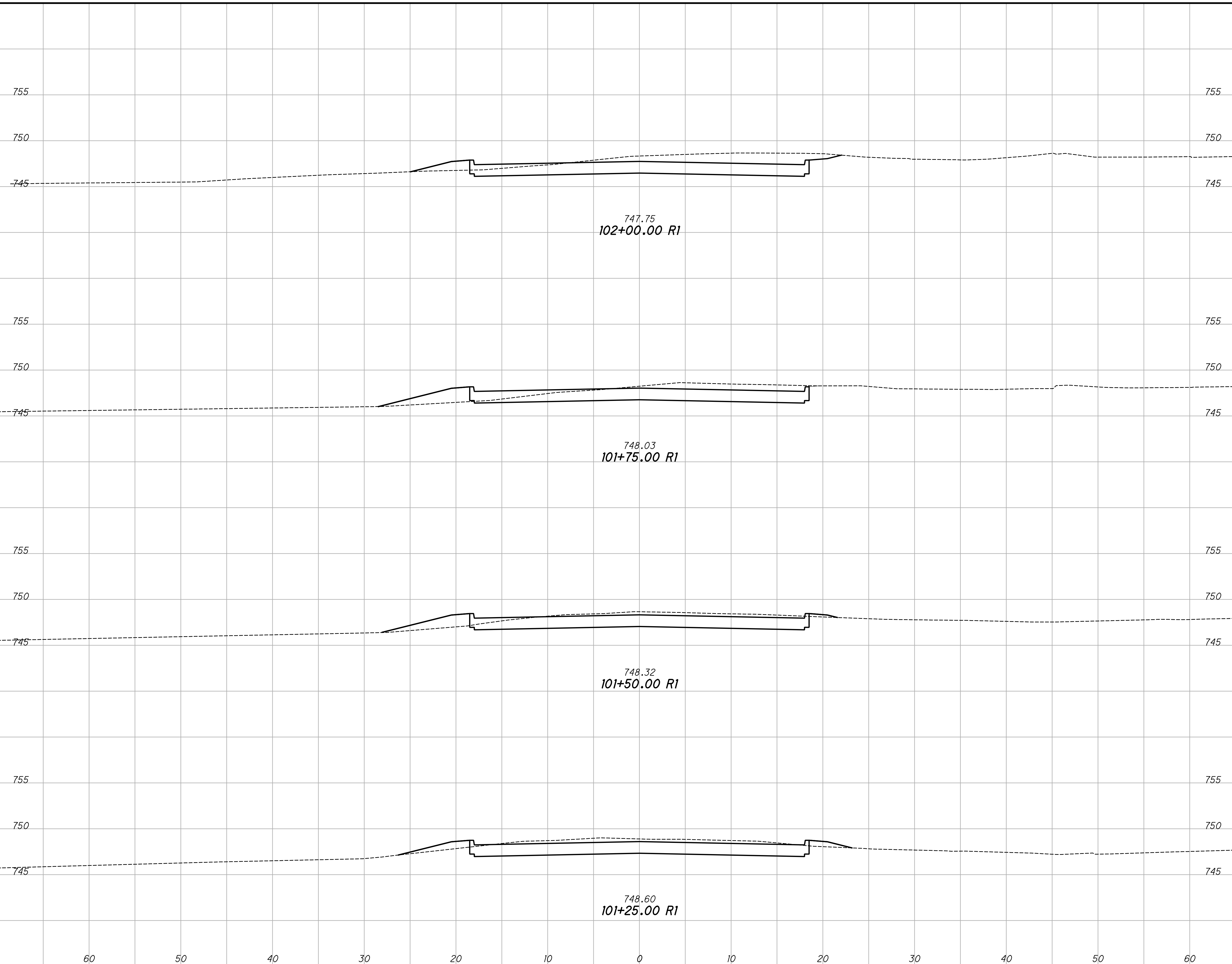
CROSS SECTIONS - DRIVE
STA. 100+25.00 TO STA. 101+00.00

BUT - TR99 - 0.519

24
31

H:\2015\505688\006\050319\Design\Roadway\Sheets\050319_X5031.dgn Sheet 11/25/2019 3:43:11PM gurasek

SEEDING	
END WIDTH	SO. YDS.
10	28
10	32
13	36
13	28
124	

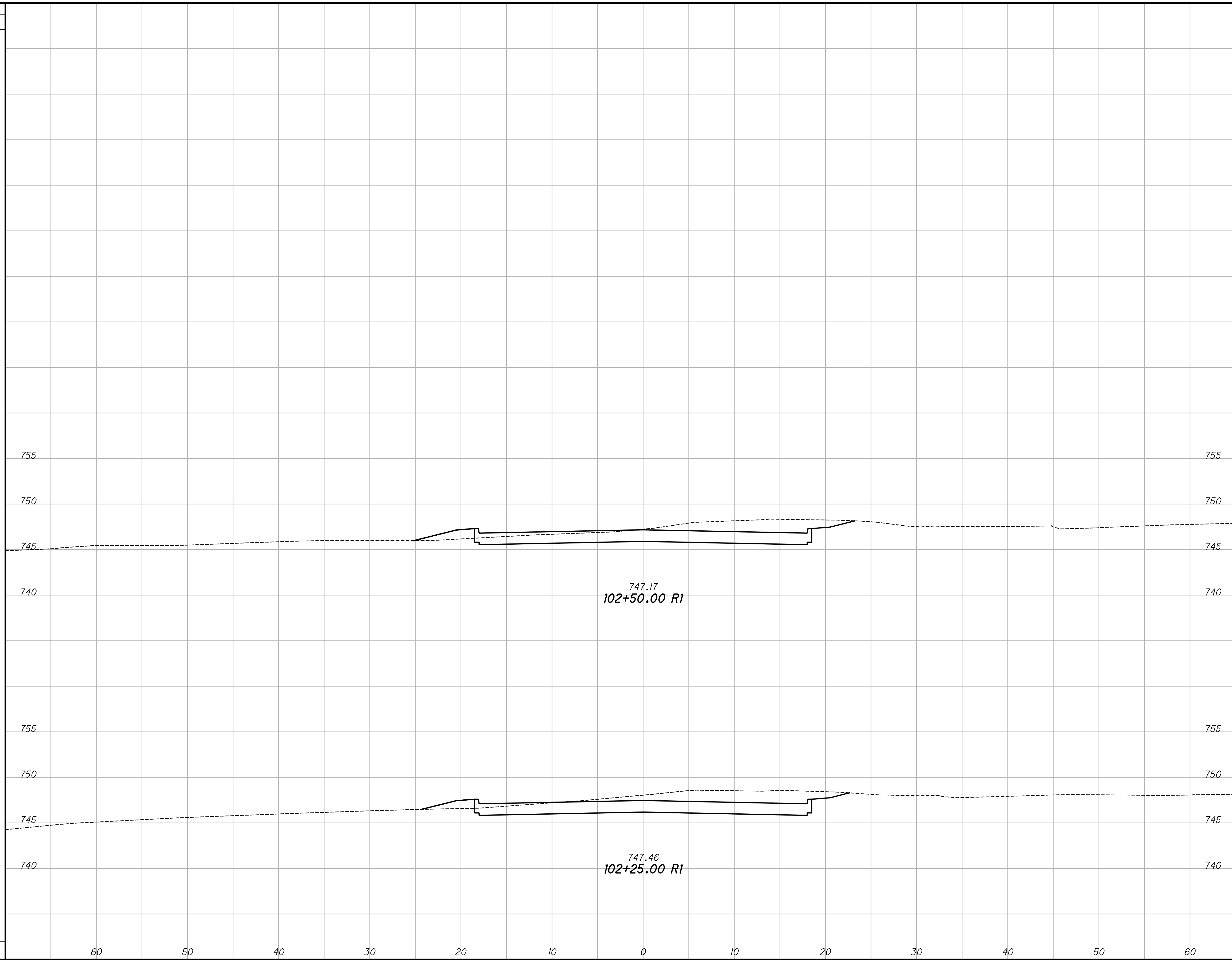


END AREA		VOLUME	
CUT	FILL	CUT	FILL
66	4	54	6
50	10	47	9
52	9	50	7
56	6	61	4
		212	26

CROSS SECTIONS - DRIVE
STA. 101+25.00 TO STA. 102+00.00
BUT - TR99 - 0.519

H:\2015\150588\006\050319\Design\Roadway\Sheets\050319_X5032.dgn Sheet 11/25/2019 3:43:12 PM gurasek

SEEDING	
END WIDTH	SO. YDS.
126	
28	
10	
31	
12	
67	



END AREA		VOLUME	
CUT	FILL	CUT	FILL
64	5	119	9
71	4	62	4
		63	4
		244	17

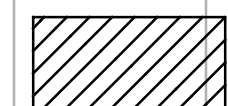
CROSS SECTIONS - DRIVE
STA. 102+25.00 TO STA. 102+50.00

BUT - TR99 - 0.519

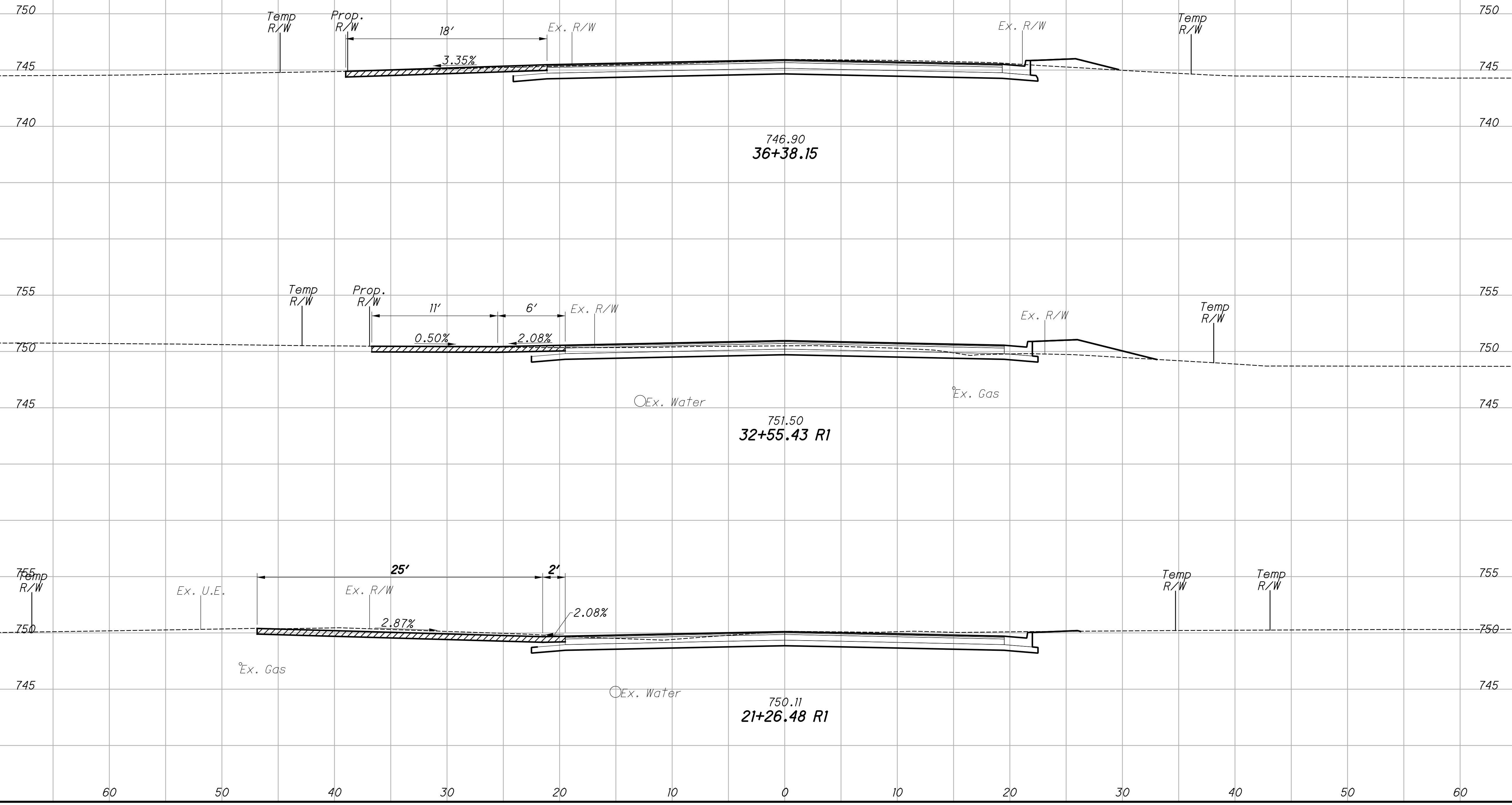
26
31

H:\2015\1505688\006\050319\Design\Roadway\Sheets\050319_X5002.dgn Sheet 11/25/2019 3:43:12 PM gurasek

SEEDING	
END WIDTH	SO. YDS.

 ITEM 441 - 1-1/4" AC SURFACE COURSE, TYPE 1, (448), PG64-22
 ITEM 407 - TACK COAT
 ITEM 301 - 5" ASPHALT CONCRETE BASE, PG64-22

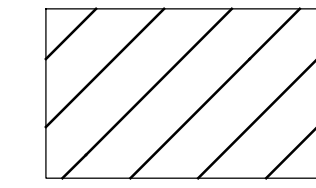
END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	GAU	CHECKED



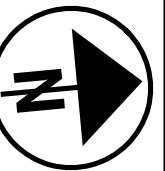
DRIVE PROFILES
GILMORE ROAD

BUT-TR99-0.519

H:\2015\150588\006\050319\Design\Roadway\Sheets\050319_GD001.dgn Sheet 11/25/2019 3:43:13 PM gurasek

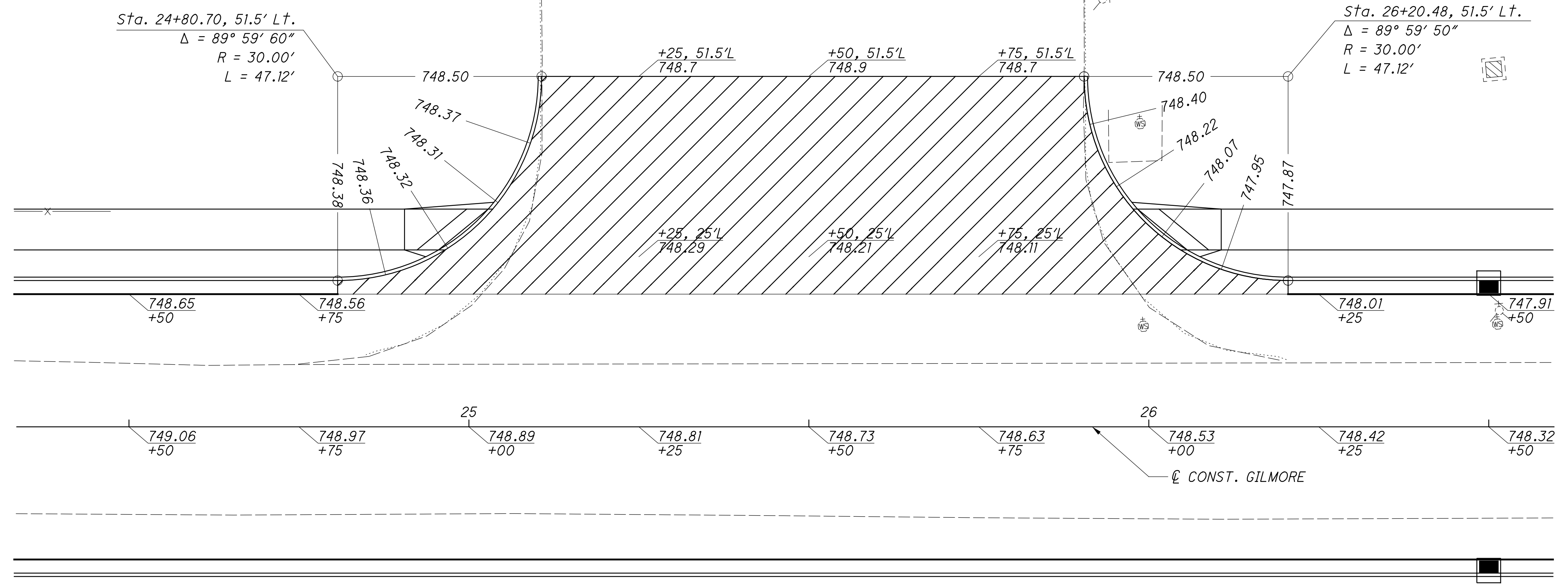


ITEM 441 - 1-1/4" AC SURFACE COURSE, TYPE 1, (448), PG64-22
ITEM 407 - TACK COAT
ITEM 301 - 5" ASPHALT CONCRETE BASE, PG64-22



0 10 20
HORIZONTAL
SCALE IN FEET

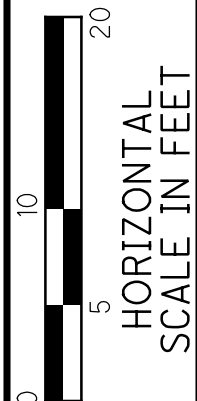
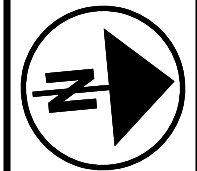
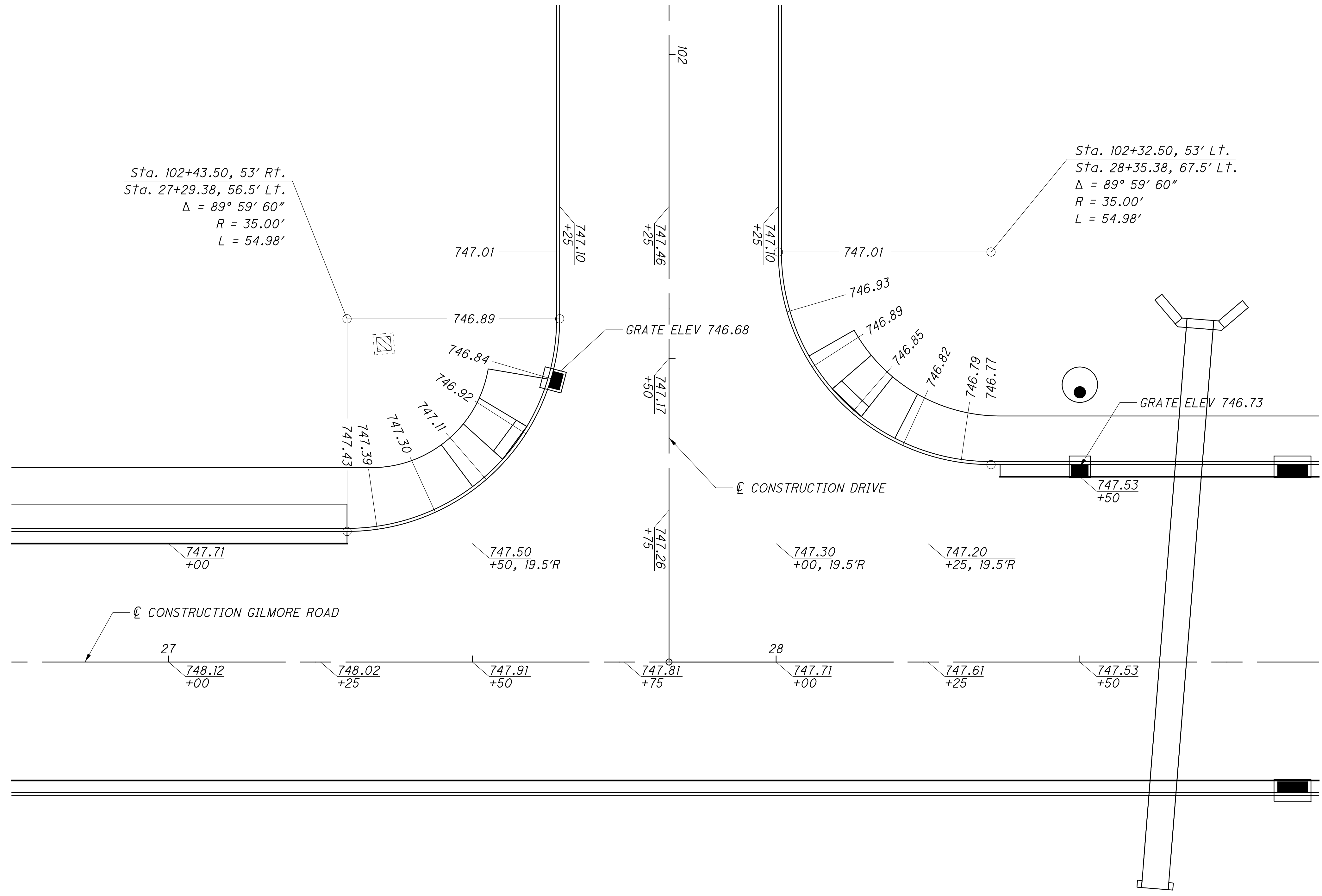
CALCULATED
GAU
CHECKED
YSY



DRIVE DETAILS

BUT - TR99 - 0.519

H:\2015\150588\006\050319\Design\Roadway\Sheets\050319_GI001.dgn Sheet 11/25/2019 3:43:14 PM gurasek

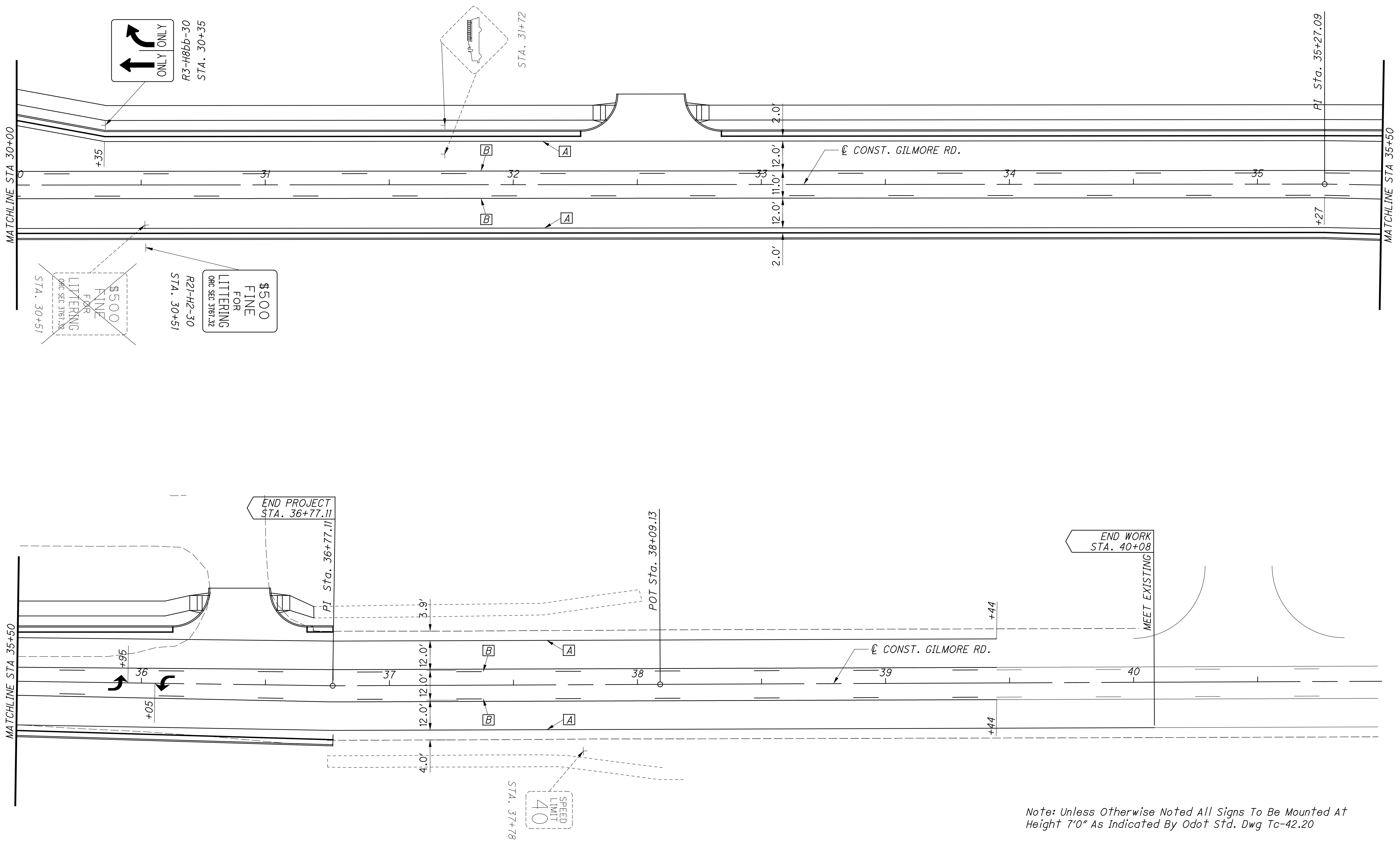


CALCULATED	GAU	CHECKED	YSY
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SHEET TITLE
INTERSECTION DETAILS

BUT - TR99 - 0.519

NOTES:
ALL ELEVATIONS ARE AT EDGE
OF ASPHALT PAVEMENT UNLESS
NOTED OTHERWISE.



CALCULATED
GAU
CHECKED
YSY

0 20 40
HORIZONTAL
SCALE IN FEET

**TRAFFIC CONTROL
GILMORE ROAD**

BUT - TR99 - 0.519

Note: Unless Otherwise Noted All Signs To Be Mounted At Height 7'0" As Indicated By Odot Std. Dwg Tc-42.20

- [A] - Item 644, 4" Edge Line, White
- [B] - Item 644, 4" Centerline, Double Yellow Solid/Dashed (With RPM's @ 80' Spacing)
- [C] - Item 644, 4" Centerline, Double Yellow Solid (With RPM's @ 80' Spacing)
- [D] - Item 644, 8" Channelizing line, White (With RPM's @ 40' Spacing)
- [E] - Item 644, 24" Stop Line, White