



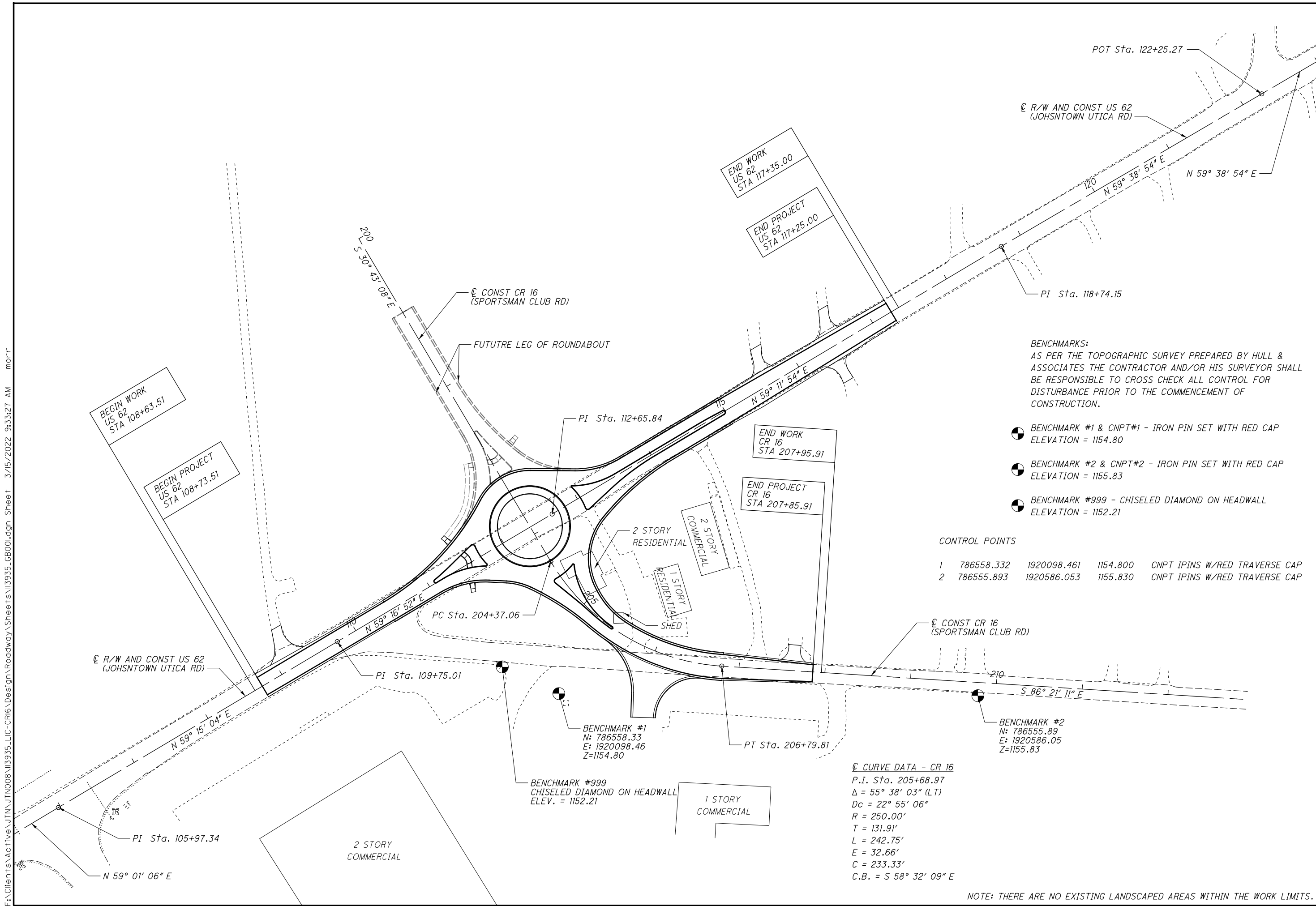
F:\Clients\Active\JTN\JTN008\LIC-CR16\Design\Roadway\Sheets\13935\_GB001.dgn Sheet 3/15/2022 9:33:27 AM moRR

0 25 50 100  
HORIZONTAL SCALE IN FEET

CALCULATED MRO CHECKED NRV

**SCHEMATIC PLAN**

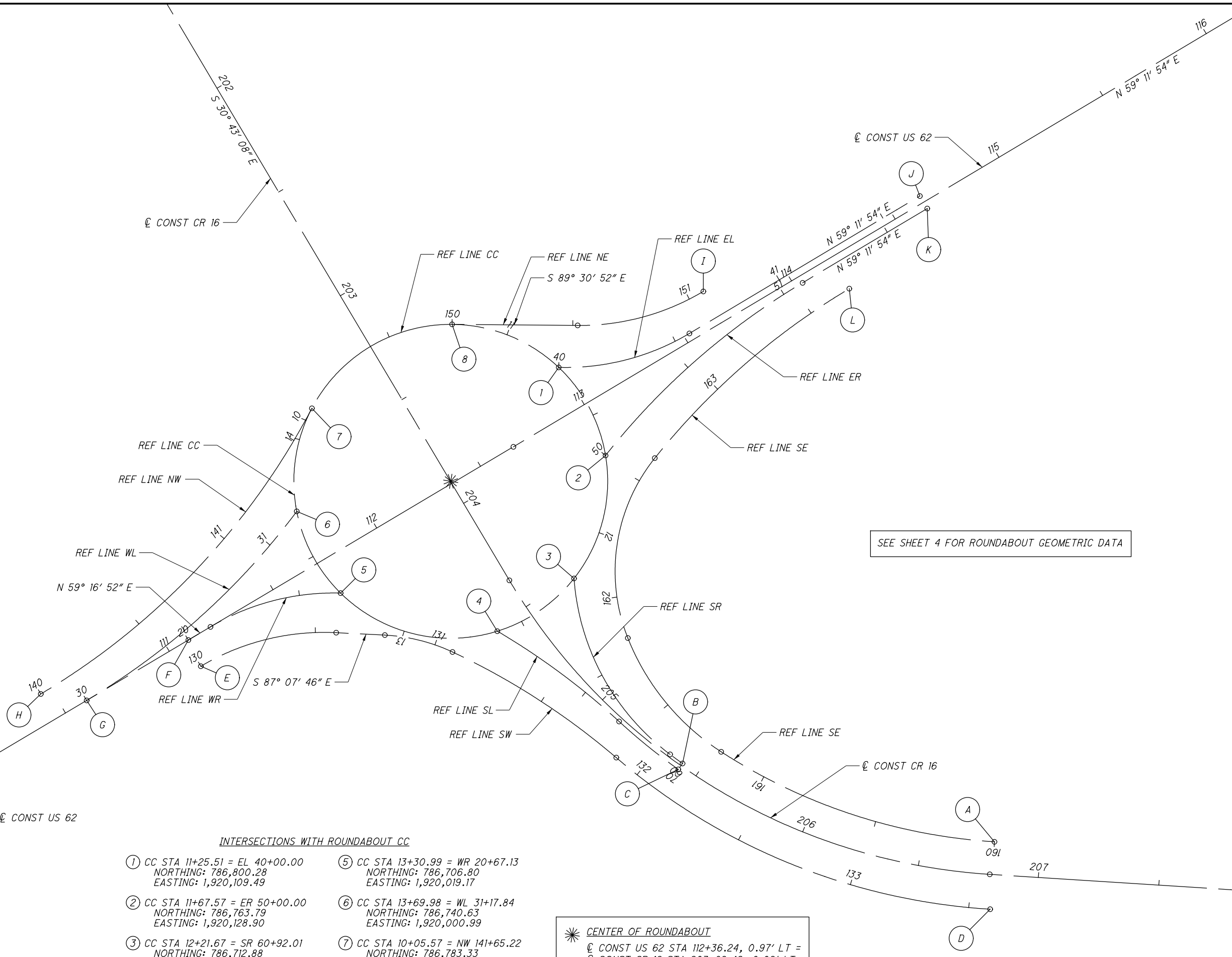
**LIC - CR16 - 0.007**



NOTE: THERE ARE NO EXISTING LANDSCAPED AREAS WITHIN THE WORK LIMITS.

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- (A) SE STA 160+00.00 =  
CR 16 STA 206+80.89, 13.58' LT  
NORTHING: 786,603.79  
EASTING: 1,920,290.01
- (B) SR STA 60+00.00 =  
CR 16 STA 205+42.48, 1.12' LT  
NORTHING: 786,636.23  
EASTING: 1,920,160.79
- (C) SL STA 70+00.00 =  
CR 16 STA 205+42.47, 1.88' RT  
NORTHING: 786,633.78  
EASTING: 1,920,159.05
- (D) SW STA 133+58.92 =  
CR 16 STA 206+80.92, 14.42' RT  
NORTHING: 786,575.85  
EASTING: 1,920,288.26
- (E) SW STA 130+00.00 =  
US 62 STA 111+08.09, 12.00' RT  
NORTHING: 786,676.48  
EASTING: 1,919,961.25
- (F) WR STA 20+00.00 =  
US 62 STA 111+09.19, 0.00' RT  
NORTHING: 786,687.36  
EASTING: 1,919,956.06
- (G) WL STA 30+00.00 =  
US 62 STA 110+60.20, 0.00' RT  
NORTHING: 786,662.33  
EASTING: 1,919,913.95
- (H) NW STA 140+00.00 =  
US 62 STA 110+45.23, 12.00' LT  
NORTHING: 786,665.00  
EASTING: 1,919,894.95
- (I) NE STA 151+06.63 =  
US 62 STA 113+66.39, 15.00' LT  
NORTHING: 786,831.75  
EASTING: 1,920,169.42
- (J) EL STA 41+67.84 =  
US 62 STA 114+63.64, 3.00' LT  
NORTHING: 786,871.2461  
EASTING: 1,920,259.0999
- (K) ER STA 51+69.25 =  
US 62 STA 114+63.64, 3.00' RT  
NORTHING: 786,866.0924  
EASTING: 1,920,262.1723
- (L) SE STA 163+68.76 =  
US 62 STA 114+18.89, 15.00' RT  
NORTHING: 786,832.87  
EASTING: 1,920,229.88



INTERSECTIONS WITH ROUNDABOUT CC

① CC STA 11+25.51 = EL 40+00.00 NORTHING: 786,800.28 EASTING: 1,920,109.49	⑤ CC STA 13+30.99 = WR 20+67.13 NORTHING: 786,706.80 EASTING: 1,920,019.17
② CC STA 11+67.57 = ER 50+00.00 NORTHING: 786,763.79 EASTING: 1,920,128.90	⑥ CC STA 13+69.98 = WL 31+17.84 NORTHING: 786,740.63 EASTING: 1,920,000.99
③ CC STA 12+21.67 = SR 60+92.01 NORTHING: 786,712.88 EASTING: 1,920,115.86	⑦ CC STA 10+05.57 = NW 141+65.22 NORTHING: 786,783.33 EASTING: 1,920,007.25
④ CC STA 12+60.82 = SL 70+94.47 NORTHING: 786,691.03 EASTING: 1,920,084.09	⑧ CC STA 10+76.77 = NE 150+00.00 NORTHING: 786,818.09 EASTING: 1,920,065.34

✳ CENTER OF ROUNDABOUT  
 ℄ CONST US 62 STA 112+36.24, 0.97' LT =  
 ℄ CONST CR 16 STA 203+89.42, 0.09' LT  
 RADIUS = 65.00'  
 NORTHING = 786,753.09  
 EASTING = 1,920,064.79

SEE SHEET 4 FOR ROUNDABOUT GEOMETRIC DATA

NOTE:  
 FOR PROPOSED GEOMETRY OF ℄ CONST US 62  
 AND ℄ CONST CR 16 SEE SHEET 2.

CALCULATED  
 MRO  
 CHECKED  
 NRV

0 20 40  
 HORIZONTAL  
 SCALE IN FEET

**ROUNDABOUT GEOMETRIC PLAN**

**LIC - CR16 - 0.007**

REF LINE	P.I. STATION	P.I. NORTHING	P.I. EASTING	D	Dc	TANGENT LENGTH (FT)	ARC LENGTH (FT)	RADIUS (FT)	BEGIN CURVE	END CURVE
CC	10+00.00	786,778.30	1,920,004.88	360°00'00"	N/A	N/A	408.41	65.00	10+00.00	14+08.41
EL	40+29.14	786,799.42	1,920,138.62	32°29'36" (LT)	57°17'45"	29.14	56.71	100.00	40+00.00	40+56.71
ER	50+55.18	786,807.05	1,920,163.14	20°50'33" (RT)	19°05'55"	55.18	109.13	300.00	50+00.00	51+09.13
NE	150+80.03	786,817.41	1,920,145.36	31°17'14" (LT)	57°17'45"	28.00	54.61	100.00	150+52.02	151+06.63
NW	140+84.76	786,708.30	1,919,967.82	31°33'19" (LT)	19°05'55"	84.77	165.22	300.00	140+00.00	141+65.22
SE	160+61.59	786,607.63	1,920,228.54	29°18'40" (RT)	24°19'46"	61.59	120.48	235.50	160+00.00	161+20.48
	161+52.47	786,658.43	1,920,149.95	35°29'14" (RT)	57°17'45"	32.00	61.94	100.00	161+20.48	161+82.41
	162+25.99	786,728.69	1,920,122.09	60°19'09" (RT)	76°23'40"	43.58	78.96	75.00	161+82.41	162+61.37
	163+15.65	786,805.07	1,920,183.25	20°30'37" (RT)	19°05'55"	54.28	107.39	300.00	162+61.37	163+68.76
SL	70+15.79	786,642.93	1,920,146.17	07°11'13" (RT)	22°46'54"	15.79	31.55	251.50	70+00.00	70+31.55
	70+63.12	786,674.97	1,920,111.28	12°01'01" (LT)	19°05'55"	31.58	62.92	300.00	70+31.55	70+94.47
	71+15.39	786,701.66	1,920,066.07	07°58'47" (LT)	19°05'55"	20.93	41.78	300.00	70+94.47	71+36.25
SR	60+03.19	786,638.08	1,920,158.18	01°28'23" (RT)	23°03'24"	3.19	6.39	248.50	60+00.00	60+06.39
	60+52.02	786,667.36	1,920,119.11	49°03'24" (RT)	57°17'45"	45.63	85.62	100.00	60+06.39	60+92.01
	60+92.51	786,713.38	1,920,115.82	00°34'15" (RT)	57°17'45"	0.50	1.00	100.00	60+92.01	60+93.00
SW	130+30.18	786,691.90	1,919,987.20	33°35'22" (RT)	57°17'45"	30.18	58.62	100.00	130+00.00	130+58.62
	130+93.51	786,688.64	1,920,052.19	22°13'48" (RT)	76°23'40"	14.73	29.10	75.00	130+78.78	131+07.88
	131+48.59	786,665.12	1,920,102.40	15°27'30" (RT)	19°05'55"	40.72	80.94	300.00	131+07.88	131+88.82
	132+76.95	786,581.34	1,920,200.30	36°59'18" (LT)	21°44'39"	88.14	170.11	263.50	131+88.82	133+58.92
WL	30+59.69	786,692.82	1,919,965.26	22°30'20" (LT)	19°05'55"	59.69	117.84	300.00	30+00.00	31+17.84
	31+38.76	786,757.39	1,920,013.52	07°58'47" (LT)	19°05'55"	20.93	41.78	300.00	31+17.84	31+59.62
WR	20+39.67	786,707.62	1,919,990.17	32°21'13" (RT)	57°17'45"	29.01	56.47	100.00	20+10.66	20+67.13
	20+68.21	786,706.77	1,920,020.24	01°14'09" (RT)	57°17'45"	1.08	2.16	100.00	20+67.13	20+69.29

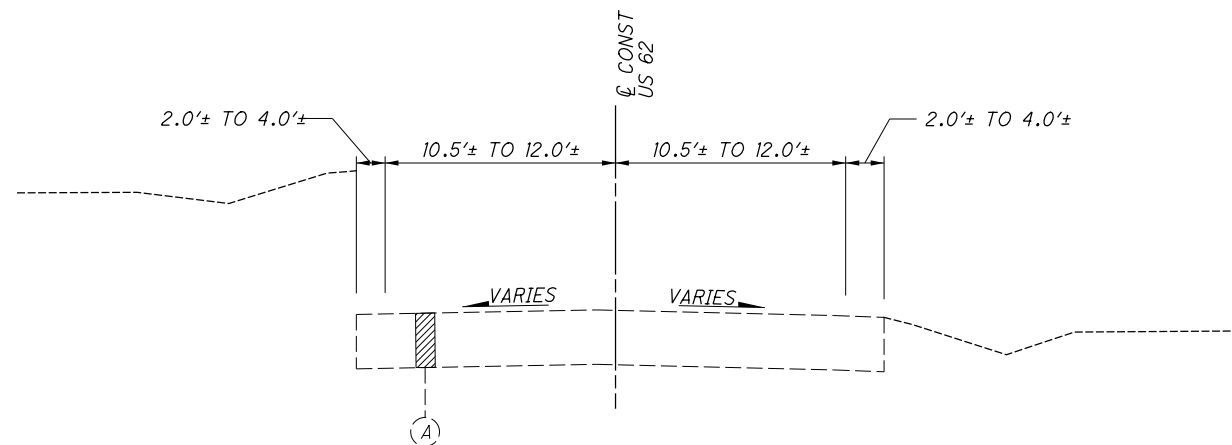
CALCULATED  
MRO  
CHECKED  
NRV

HORIZONTAL SCALE IN FEET

ROUNDABOUT GEOMETRIC PLAN

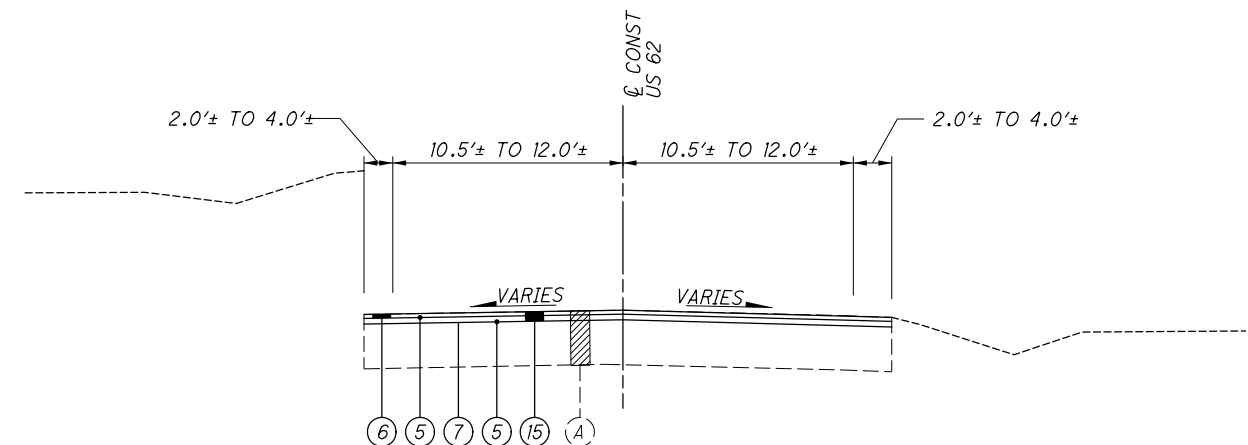
LIC - CR16 - 0.007

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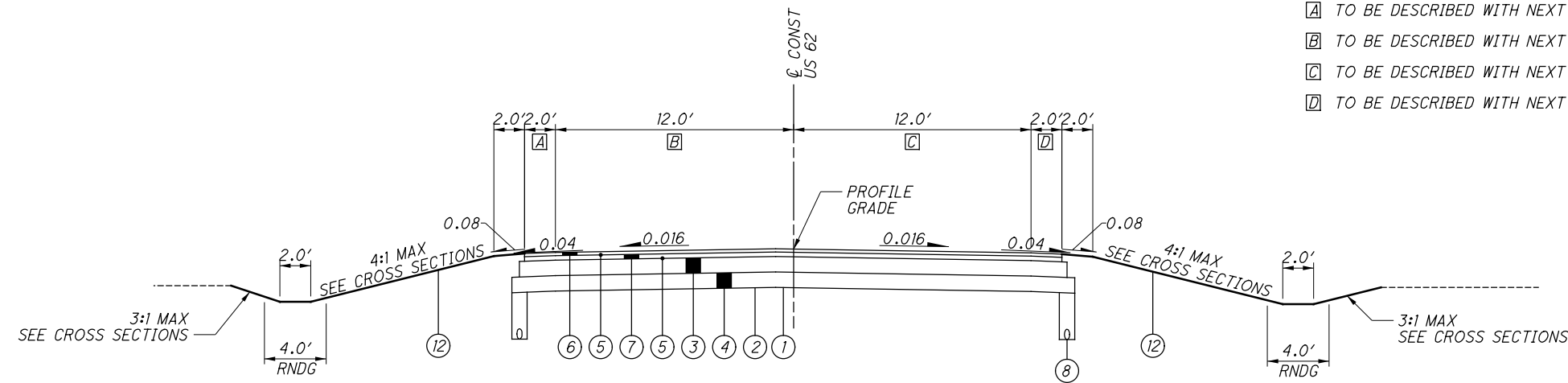
**ADJOINING SECTION**

STA 108+73.51 US 62 (JOHNSTOWN UTICA RD)  
STA 117+25.00 US 62 (JOHNSTOWN UTICA RD)



**RESURFACING SECTION**

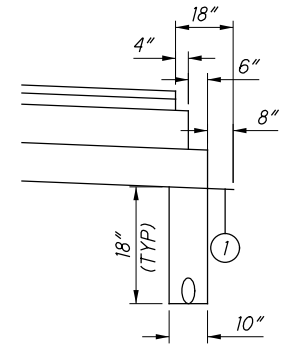
STA 108+48.51 STA 108+73.51 US 62 (JOHNSTOWN UTICA RD)  
STA 117+25.00 TO STA 117+50.00 US 62 (JOHNSTOWN UTICA RD)



**NORMAL SECTION**

STA 108+73.51 TO STA 110+45.23 (US 62)  
STA 115+00.00 TO STA 117+25.00 (US 62)

- Ⓐ TO BE DESCRIBED WITH NEXT SUBMITTAL
- Ⓑ TO BE DESCRIBED WITH NEXT SUBMITTAL
- Ⓒ TO BE DESCRIBED WITH NEXT SUBMITTAL
- Ⓓ TO BE DESCRIBED WITH NEXT SUBMITTAL

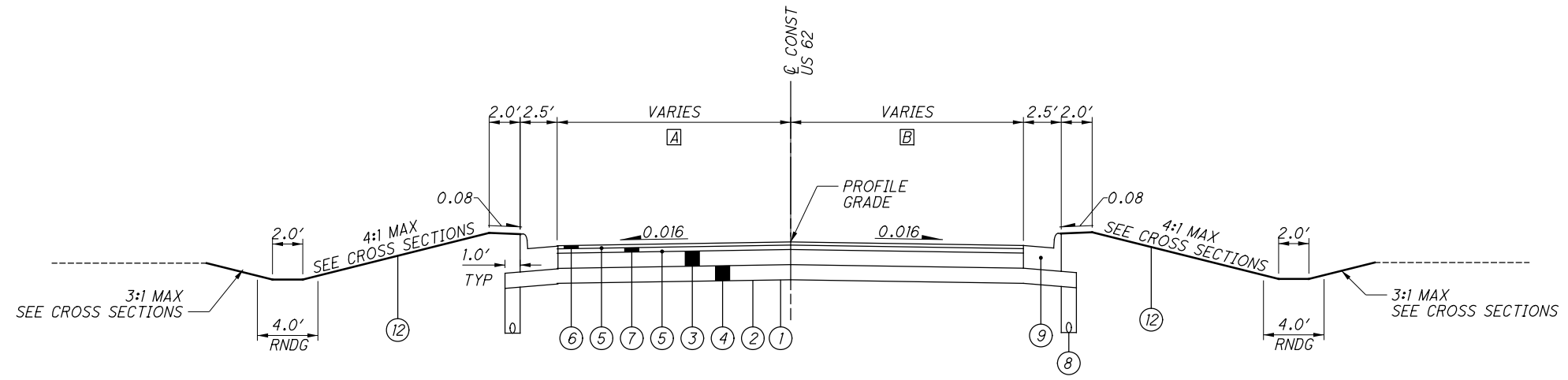


**STEP DETAIL - US 62**  
NOT TO SCALE

**LEGEND**

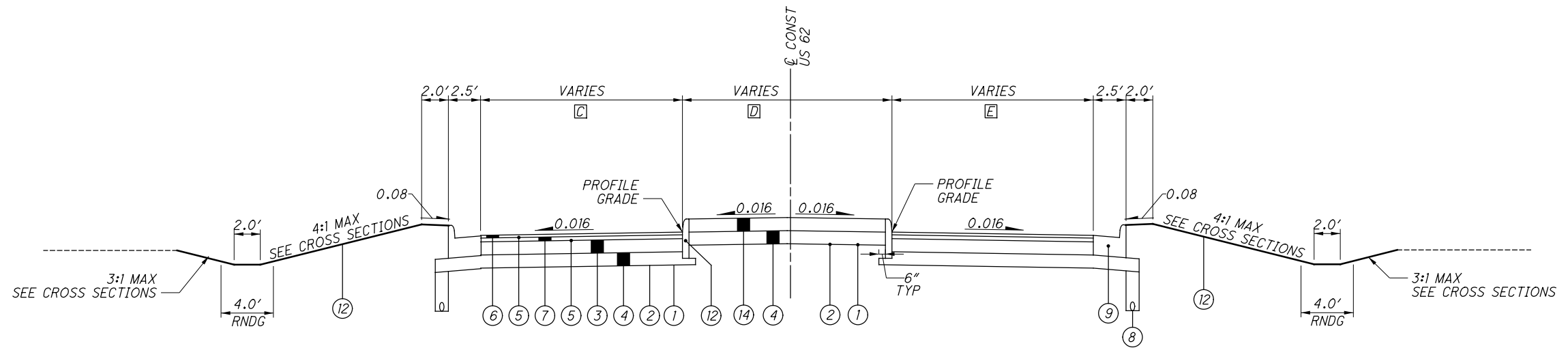
- |   |  |  |
|---|--|--|
| <ul style="list-style-type: none"> <li>① ITEM 204 SUBGRADE COMPACTION</li> <li>② ITEM 204 PROOF ROLLING</li> <li>③ ITEM 301 6" ASPHALT CONCRETE BASE, PG64-22</li> <li>④ ITEM 304 6" AGGREGATE BASE</li> <li>⑤ ITEM 407 NON-TRACKING TACK COAT (RATE PER TABLE 407.06-1) (PER ODOT C&amp;MS)</li> <li>⑥ ITEM 442 1/4" ASPHALT CONCRETE SURFACE COURSE, 9.5MM, TYPE A (446)</li> </ul> | <ul style="list-style-type: none"> <li>⑦ ITEM 442 1/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (446)</li> <li>⑧ ITEM 605 4" BASE PIPE UNDERDRAINS</li> <li>⑨ ITEM 609 COMBINATION CURB AND GUTTER, TYPE 2</li> <li>⑩ ITEM 609 CURB, TYPE 6</li> <li>⑪ ITEM 609 CURB, TYPE 3-B, AS PER PLAN - SEE DETAIL ON SHEET 9</li> <li>⑫ ITEM 659 SEEDING AND MULCHING (TOPSOIL = 4")</li> </ul> | <ul style="list-style-type: none"> <li>⑬ ITEM 452 NON-REINFORCED CONCRETE PAVEMENT MISC.: 8" TRUCK APRON STAINED - SEE DETAIL ON SHEET 10</li> <li>⑭ ITEM 609 6" CONCRETE TRAFFIC ISLAND, AS PER PLAN, TOOLED AND STAINED</li> <li>⑮ ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, 3"</li> <li>⑯ ITEM 452 6" NON-REINFORCED CONCRETE PAVEMENT CLASS QC1 (DRIVEWAY)</li> <li>⑰ ITEM 452 8" NON-REINFORCED CONCRETE PAVEMENT CLASS QC1 (DRIVEWAY)</li> <li>Ⓐ EX ASPHALT PAVEMENT</li> </ul> |
|---|--|--|

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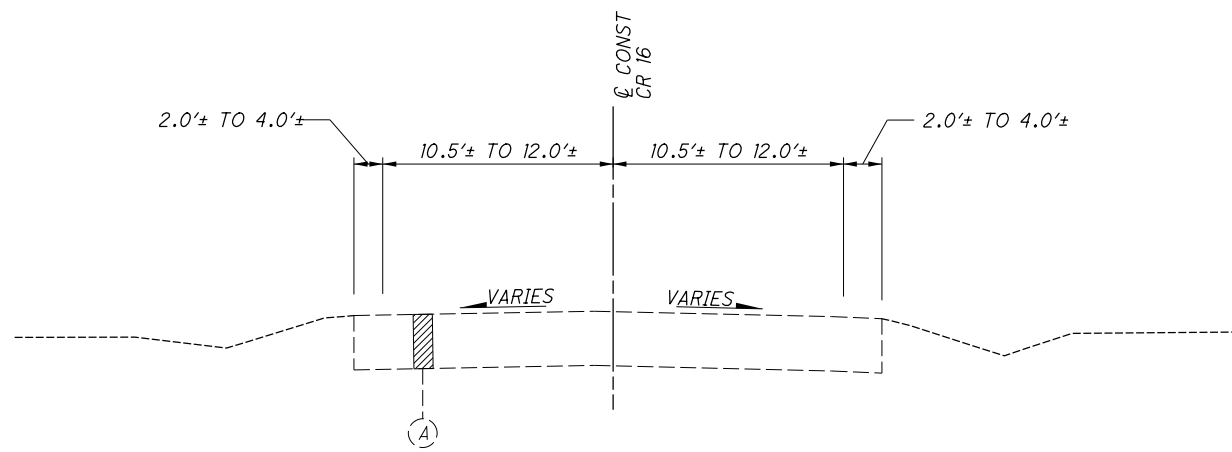
**NORMAL SECTION**  
STA 110+45.23 TO STA 111+07.19 (US 62)

- A** TO BE DESCRIBED WITH NEXT SUBMITTAL
- B** TO BE DESCRIBED WITH NEXT SUBMITTAL
- C** TO BE DESCRIBED WITH NEXT SUBMITTAL
- D** TO BE DESCRIBED WITH NEXT SUBMITTAL
- E** TO BE DESCRIBED WITH NEXT SUBMITTAL

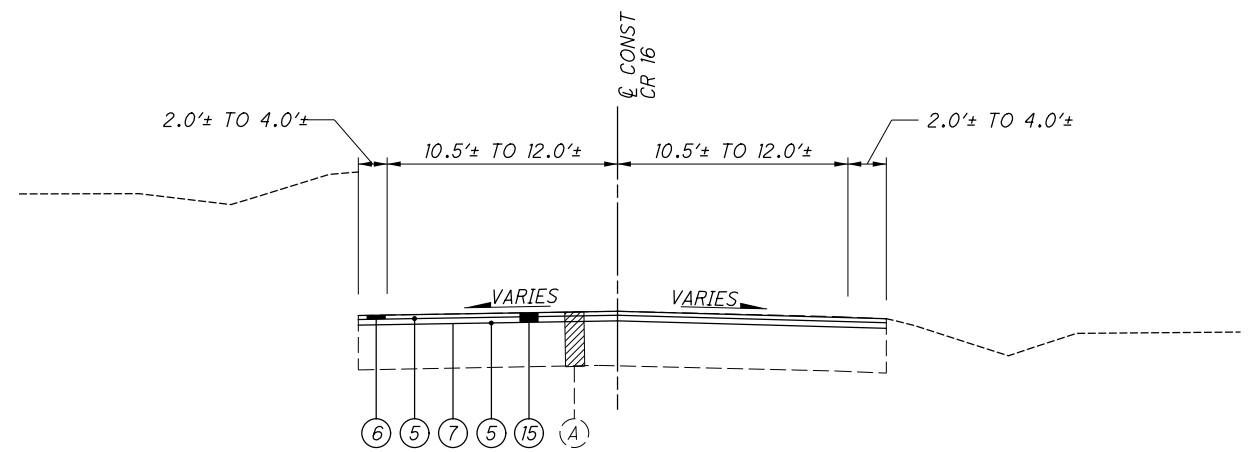


**NORMAL SECTION**  
STA 111+07.19 TO STA 111+69.07 (US 62)  
SEE ROUNDABOUT DETAIL  
STA 113+03.55 TO STA 115+00.00 (US 62)

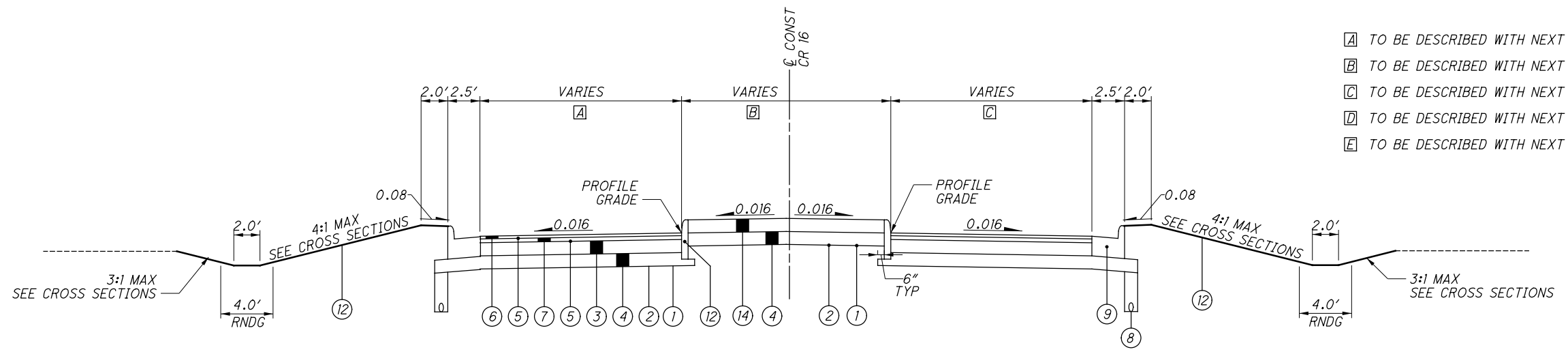
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**ADJOINING SECTION**  
STA 207+85.91 CR 16 (SPORTSMAN CLUB RD)

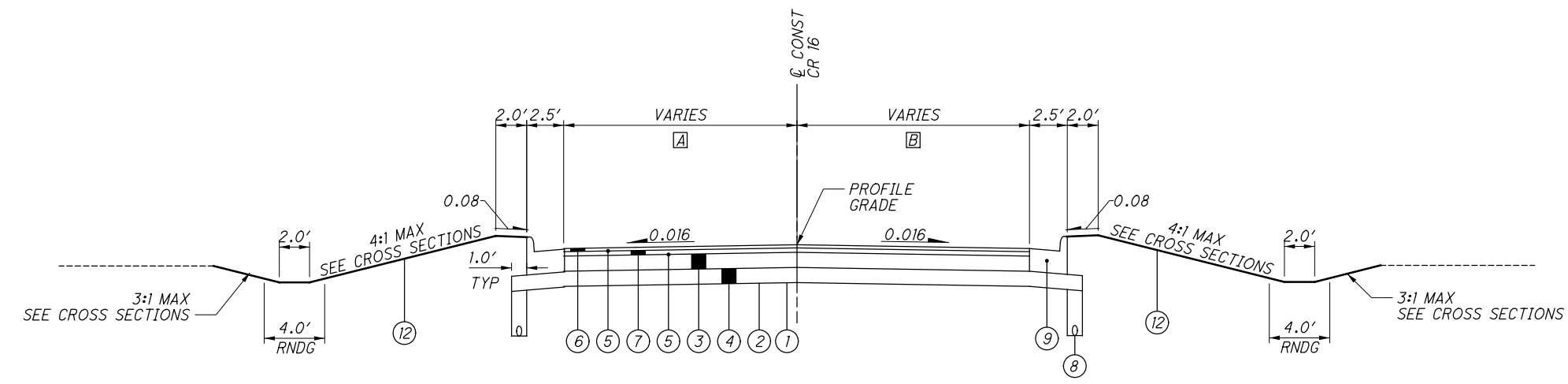


**RESURFACING SECTION**  
STA 207+85.91 TO STA 208+10.91 CR 16 (SPORTSMAN CLUB RD)



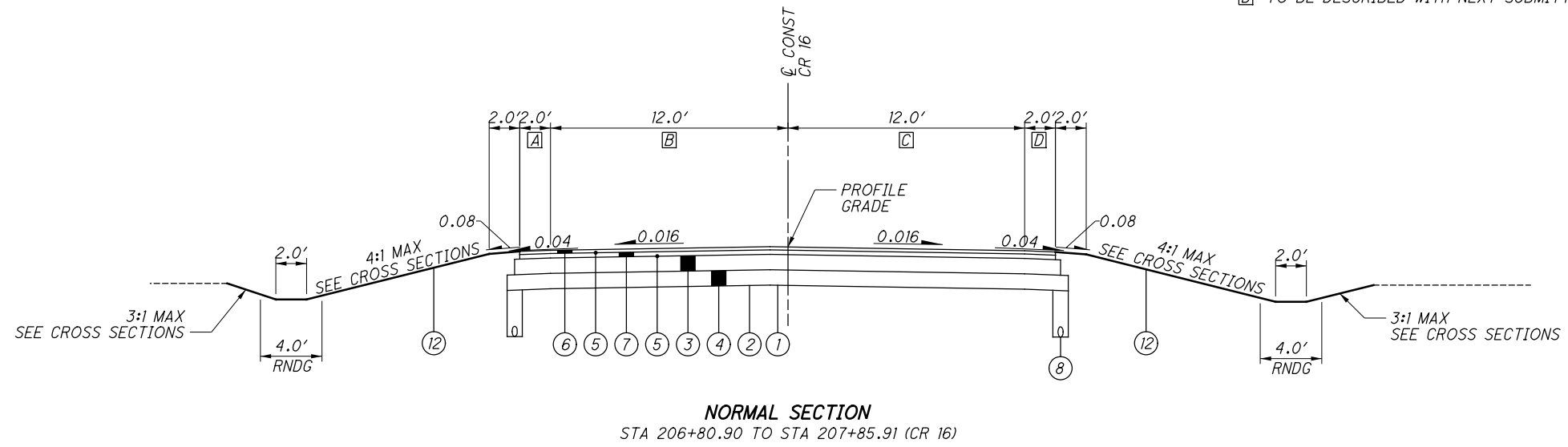
**NORMAL SECTION**  
SEE ROUNDABOUT DETAIL BEFORE STA 204+57.07 (CR 16)  
STA 204+57.07 TO STA 205+43.97 (CR 16)

- Ⓐ TO BE DESCRIBED WITH NEXT SUBMITTAL
- Ⓑ TO BE DESCRIBED WITH NEXT SUBMITTAL
- Ⓒ TO BE DESCRIBED WITH NEXT SUBMITTAL
- Ⓓ TO BE DESCRIBED WITH NEXT SUBMITTAL
- Ⓔ TO BE DESCRIBED WITH NEXT SUBMITTAL

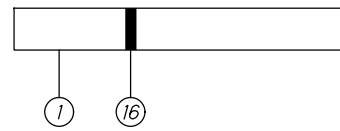
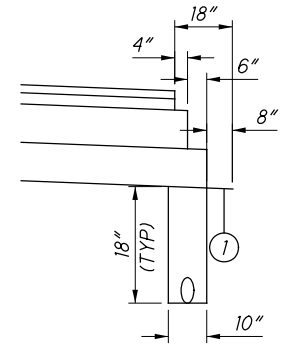


**NORMAL SECTION**  
STA 205+43.97 TO STA 206+80.90 (CR 16)

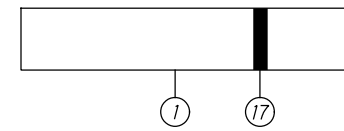
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- Ⓐ TO BE DESCRIBED WITH NEXT SUBMITTAL
- Ⓑ TO BE DESCRIBED WITH NEXT SUBMITTAL
- Ⓒ TO BE DESCRIBED WITH NEXT SUBMITTAL
- Ⓓ TO BE DESCRIBED WITH NEXT SUBMITTAL



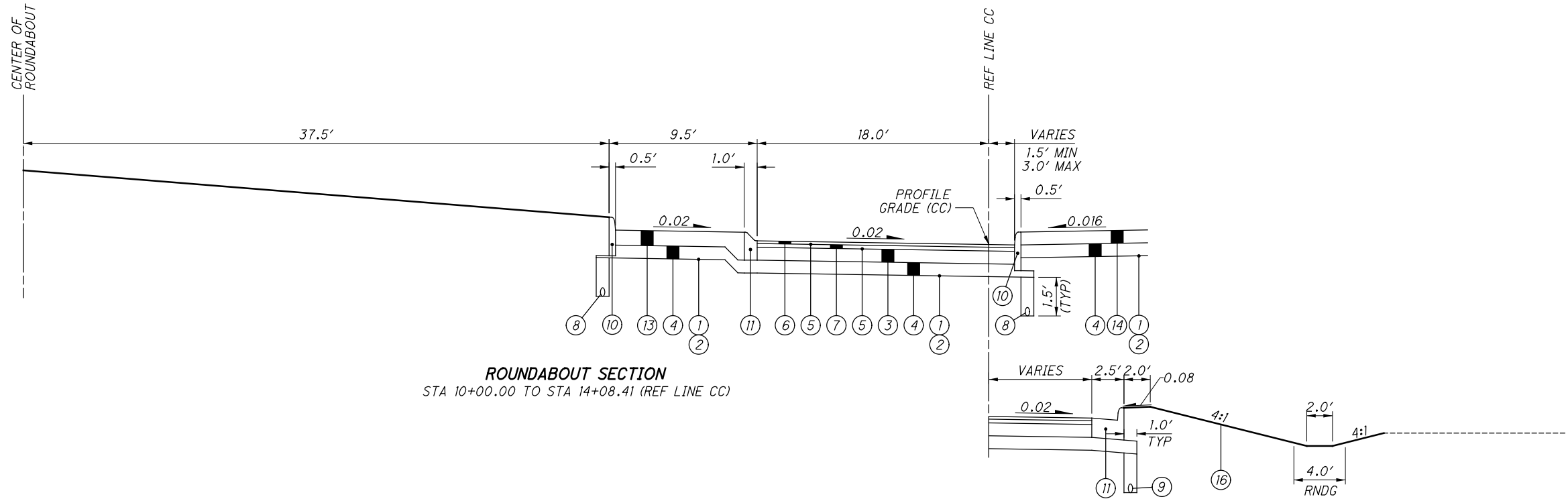
RESIDENTIAL DRIVE DETAIL



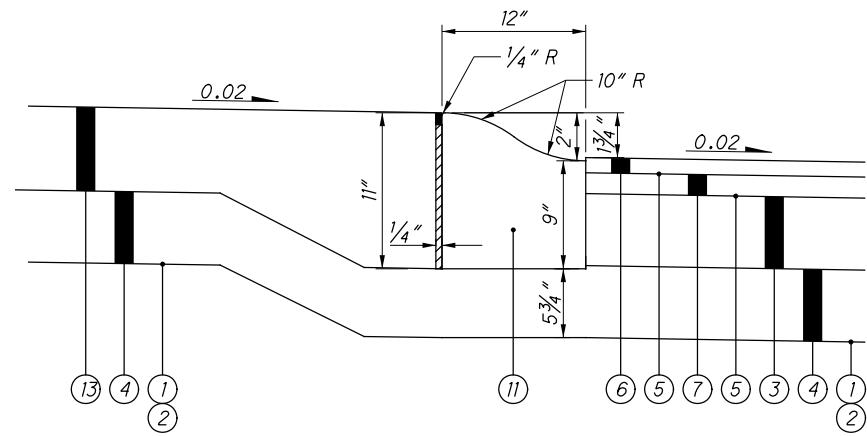
COMMERCIAL DRIVE DETAIL



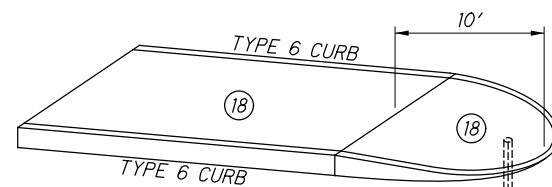
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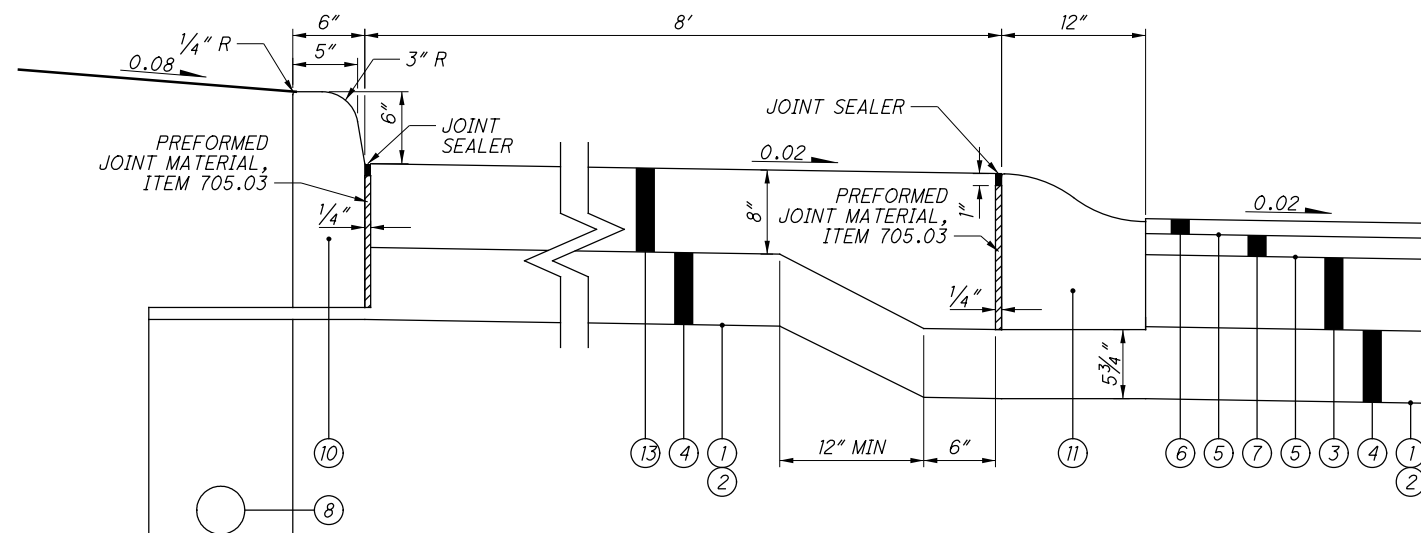
**ROUNDABOUT SECTION**  
STA 10+00.00 TO STA 14+08.41 (REF LINE CC)



**CURB, TYPE 3-B, AS PER PLAN**  
NOT TO SCALE



**TRAFFIC ISLAND TAPER DETAIL**  
NOT TO SCALE



**NON-REINFORCED CONCRETE PAVEMENT MISC.:**  
**8" TRUCK APRON STAINED**  
NOT TO SCALE

**UTILITIES**

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

AEP - AMERICAN ELECTRIC POWER  
850 TECH CENTER SR  
GAHANNA, OH 43230  
6141-883-6831

COLUMBIA GAS OF OHIO  
3550 JOHNY APPLESEED CT  
COLUMBUS, OH 43231  
614-818-2133

THE CITY OF JOHNSTOWN  
599 SOUTH MAIN ST  
P.O. BOX 457  
740-967-4746

LICKING RURAL ELECTRIC  
11339 MOUNT VERNON RD  
P.O. BOX 455  
UTICA, OH 43080  
740-348-1149

EVERSTREAM SOLUTIONS  
1228 EUCLID AVE, SUITE 250  
CLEVELAND, OH 44115  
844-733-4700  
support@everstream.net

EVERSTREAM SOLUTIONS  
1228 EUCLID AVE, SUITE 250  
CLEVELAND, OH 44115  
844-733-4700  
support@everstream.net

CENTURY LINK  
441 WEST BROAD ST  
PATASKALA, OH 43062  
740-927-8282

CHARTER COMM (SPECTRUM/TIME WARNER)  
3760 INTERCHANGE RD  
COLUMBUS, OH 43204  
614-481-5262

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.

**SURVEYING PARAMETERS**

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE THIS SHEET 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: ODOT VRS  
MONUMENT TYPE: "B"

**VERTICAL POSITIONING**

ORTHOMETRIC HEIGHT DATUM: NAVD 1988  
GEOID: GEOID 12A

**HORIZONTAL POSITIONING**

REFERENCE FRAME: NAD83 (2011)  
ELLIPSOID: GRS 1980  
MAP PROJECTION: LAMBERT CONFORMAL CONIC  
COORDINATE SYSTEM: OHIO SOUTH (NSRS 2011)  
COMBINED SCALE FACTOR: N/A (GROUND TO GRID)  
ORIGIN OF COORDINATE SYSTEM: 0, 0

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 SUPPLEMENTAL SPECIFICATION 823.

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

**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.

**ROUNDING**

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

**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 8:00PM AND 7:00AM. 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.

**CLEARING AND GRUBBING**

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE 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.

**SEEDING AND MULCHING**

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

659, SOIL ANALYSIS TEST	3 EACH
659, SEEDING AND MULCHING	8,410 SQ. YD.
659, TOPSOIL	934 CU. YD.
659, REPAIR SEEDING AND MULCHING	421 SQ. YD.
659, INTER-SEEDING	421 SQ. YD.
659, COMMERCIAL FERTILIZER	0.76 TON
659, LIME	1.74 ACRES
659, WATER	45 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.

**ITEM 204 - GEOTEXTILE FABRIC**

PREPARE AND SMOOTH OUT THE AREAS AND PLACE THE GEOTEXTILE FABRIC IN THE SPLITTER ISLANDS AND INSIDE THE ROUNDABOUT AS DETAILED IN THE PLANS.

**REVIEW OF DRAINAGE FACILITIES**

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

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

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE 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 CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

**CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES**

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

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GENERAL NOTES

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**ITEM 611 - FARM DRAINS**

ALL FARM DRAINS, WHICH ARE ENCOUNTERED DURING CONSTRUCTION, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS. EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY, SHALL BE REPLACED WITHIN THE (RIGHT OF WAY) (CONSTRUCTION) LIMITS BY ITEM 611 CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES, SHALL BE OUTLETTED INTO THE ROADWAY DITCH BY 611 TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION SHALL BE ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. LATERAL FIELD TILES WHICH CROSS THE ROADWAY SHALL BE INTERCEPTED BY 611, TYPE E CONDUIT, AND CARRIED IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

THE LOCATION, TYPE, SIZE AND GRADE OF REPLACEMENTS SHALL BE DETERMINED BY THE ENGINEER AND PAYMENT SHALL BE MADE ON FINAL MEASUREMENTS.

EROSION CONTROL PADS SHALL BE PROVIDED AT THE OUTLET END OF ALL FARM DRAINS AS PER STANDARD CONSTRUCTION DRAWING DM-1.1, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE. PAYMENT FOR THE EROSION CONTROL PADS AND ANY NECESSARY BENDS OR BRANCHES SHALL BE INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEMS.

PAYMENT FOR ALL LABOR AND MATERIALS WILL BE PERFORMED BY CHANGE ORDER.

**ITEM 611 - RESIDENTIAL AND COMMERCIAL DRAINAGE CONNECTIONS**

EXISTING ROOF DRAINS, FOOTER DRAINS, OR YARD DRAINS, DISTURBED BY THE WORK, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS BY CONNECTING A CONDUIT THROUGH THE CURB OR INTO A DRAINAGE STRUCTURE. THE LOCATION, TYPE, SIZE AND GRADE OF THE NEW CONDUIT REQUIRED TO REPLACE OR EXTEND THE EXISTING DRAIN WILL BE DETERMINED BY THE ENGINEER.

THE FOLLOWING CONDUIT TYPES MAY BE USED: 707.33, 707.41 NON-PERFORATED, 707.42, 707.43, 707.45, 707.46, 707.47, 707.51, 707.52 SDR35.

PAYMENT FOR ALL LABOR AND MATERIALS WILL BE PERFORMED BY CHANGE ORDER

**ITEM 609 - CURB, TYPE 3-B, AS PER PLAN**

CURB SHALL BE IN ACCORDANCE WITH THE PLANS AND SECTION 609 OF THE ODOT STANDARD SPECIFICATIONS AND STANDARD CONSTRUCTION DRAWING BP-5.1, AND AS SHOWN ON THE DETAIL IN THIS PLAN. CURB HEIGHT VARIES FROM STANDARD DRAWING, AND SHALL BE 2". CURB WIDTH SHALL BE 12"

**MANUFACTURED WATER QUALITY STRUCTURE**

THIS PLAN UTILIZES MANUFACTURED WATER QUALITY STRUCTURES FOR WATER QUALITY TREATMENT. AREAS HAVE BEEN SHOWN IN THE PLANS FOR PLACEMENT OF AN OFF-LINE SYSTEM. PAYMENT FOR THESE DEVICES SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR ITEM 895, MANUFACTURED WATER QUALITY STRUCTURE, TYPE 2.

**ITEM SPECIAL - MAILBOX SUPPORT**

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

WOOD POSTS SHALL BE NOMINAL 4 INCHES BY 4 INCHES SQUARE OR 4.5 INCHES DIAMETER ROUND, AND CONFORM TO 710.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 INCHES I.D., AND CONFORM TO AASHTO M 181.

ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS, BOLTS, AND ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX SUPPORT SYSTEM, (SINGLE) (DOUBLE).

**ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT, MISC.: 8" TRUCK APRON STAINED**

THIS WORK SHALL CONSIST OF CONSTRUCTING THE CONCRETE INCLUDING A STAIN COLORING FOR THE ROUNDABOUT TRUCK APRON.

**MATERIALS:**

A. CONCRETE SHALL BE IN ACCORDANCE WITH THE PLANS AND SECTION 452 OF THE ODOT STANDARD SPECIFICATIONS. DO NOT COMPLY WITH THE REQUIREMENTS OF 451.14. CONCRETE SHALL BE CLASS QC1 WITH QC/QA.

B. THE CONCRETE COLOR SHALL BE "NATURAL GRAY" AS MANUFACTURED BY BOMANITE OR APPROVED EQUAL; PHONE 303-369-1115, E-MAIL INFO@BOMANITE.COM, OR INTERNET WWW.BOMANITE.COM.

C. COLORED CONCRETE WILL BE AN INTEGRAL COLORING APPLICATION, WITH COLORING ADDITIVES MIXED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. MIX UNTIL COLOR ADDITIVES ARE UNIFORMLY DISPERSED THROUGHOUT MIXTURE. COLOR SHALL BE UNIFORM THROUGHOUT THE CONCRETE.

D. CURING COMPOUND FOR COLORED CONCRETE: CURING COMPOUND SHALL COMPLY WITH ASTM C309 AND BE APPROVED BY COLOR ADDITIVE MANUFACTURER FOR USE WITH COLORED CONCRETE. PROVIDE JS CLEAR COAT SEALER OR APPROVED EQUAL ON ALL SURFACES.

E. ADMIXTURES: DO NOT USE CALCIUM CHLORIDE ADMIXTURES.

**CONSTRUCTION REQUIREMENTS:**

A. PREPARE SUBGRADE AND INSTALL COLORED CONCRETE IN ACCORDANCE WITH THE PLANS AND SECTION 452 OF THE ODOT STANDARD SPECIFICATIONS, EXCEPT AS NOTED HEREIN.

B. FINISH: COLORED CONCRETE SHALL HAVE A BROOMED FINISH. PULL BROOM ACROSS FRESHLY FLOATED CONCRETE TO PRODUCE TEXTURE INDICATED IN STRAIGHT LINES PERPENDICULAR TO MAIN LINE OF TRAFFIC. DO NOT DAMPEN BROOMS. ROUNDABOUT TRUCK APRONS SHALL HAVE A LIGHT BROOM FINISH.

C. CURING: APPLY CURING COMPOUND FOR COLORED CONCRETE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. APPLY CURING COMPOUND AT CONSISTENT TIME FOR EACH POUR TO MAINTAIN CLOSE COLOR CONSISTENCY.

D. PROTECT ADJACENT FINISHED SURFACES FROM SPLATTERS.

E. DO NOT ADD WATER TO CONCRETE AT JOB SITE, FOG OR SPRAY SURFACE WITH WATER, OR PUT INTO PUMPS OR ONTO TOOLS OR BROOMS.

F. DO NOT APPLY COLOR ADDITIVES MEANT FOR INTEGRAL COLORING TO SURFACE OF CONCTETE.

PAYMENT WILL INCLUDE THE COST OF FURNISHING AND PLACING ALL OF THE MATERIALS, FINISHING, AND TESTING. THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICE PER SQUARE YARD FOR ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT, MISC.: 8" TRUCK APRON STAINED.

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**ITEM 609 - 6" CONCRETE TRAFFIC ISLAND, AS PER PLAN, TOOLED AND STAINED**

THIS WORK SHALL CONSIST OF CONSTRUCTING THE COLORING AND JOINTING OF CONCRETE FOR THE SPLITTER ISLANDS.

**MATERIALS:**

- A. CONCRETE SHALL BE IN ACCORDANCE WITH THE PLANS AND SECTION 609 OF THE ODOT STANDARD SPECIFICATIONS.
- B. THE CONCRETE COLOR IS TO MATCH THE TRUCK APRON AND SHALL BE "BRICK RED" AS MANUFACTURED BY BROMANITE OR APPROVED EQUAL; PHONE 303-369-1115, E-MAIL INFO@BOMANITE.COM, OR INTERNET WWW.BOMANITE.COM.
- C. COLORED CONCRETE WILL BE AN INTEGRAL COLORING APPLICATION, WITH COLORING ADDITIVES MIXED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. MIX UNTIL COLOR ADDITIVES ARE UNIFORMLY DISPERSED THROUGHOUT MIXTURE. COLOR SHALL BE UNIFORM THROUGHOUT THE CONCRETE.
- D. CURING COMPOUND FOR COLORED CONCRETE: CURING COMPOUND SHALL COMPLY WITH ASTM C309 AND BE APPROVED BY COLOR ADDITIVE MANUFACTURER FOR USE WITH COLORED CONCRETE. PROVIDE JS CLEAR COAT SEALER OR APPROVED EQUAL ON ALL SURFACES.
- E. ADMIXTURES: DO NOT USE CALCIUM CHLORIDE ADMIXTURES.

**CONSTRUCTION REQUIREMENTS:**

- A. PREPARE SUBGRADE AND INSTALL COLORED CONCRETE IN ACCORDANCE WITH THE PLANS AND SECTION 609 OF THE ODOT STANDARD SPECIFICATIONS , EXCEPT AS NOTED HEREIN.
- B. JOINTS SHALL BE TOOLED IN PATTERNS INDICATED ON PLANS, OR AS NOTED HEREIN. (PATTERN: BRICK RUNNING BOND). THE SPLITTER ISLANDS SHALL BE SCORED IN A 24-INCH RUNNING BOND PATTERN PERPENDICULAR TO THE REFERENCE LINE THAT THE SPLITTER ISLAND IS CONSTRUCTED.
- C. TOOLED JOINTS: FORM JOINTS AFTER INITIAL FLOATING BY GROOVING AND FINISHING EACH EDGE OF JOINT WITH GROOVING TOOL TO A 1/4-INCH RADIUS. REPEAT GROOVING OF CONSTRUCTION JOINTS AFTER APPLYING SURFACE FINISHES. ELIMINATE TOOL MARKS ON CONCRETE SURFACES. EDGES OF COLORED CONCRETE NOT CONTAINED BY STANDARD CONCRETE SHALL BE TOOLED IN THE SAME MANNER.
- D. FINISH: COLORED CONCRETE SHALL HAVE A BROOMED FINISH. PULL BROOM ACROSS FRESHLY FLOATED CONCRETE TO PRODUCE TEXTURE INDICATED IN STRAIGHT LINES PERPENDICULAR TO MAIN LINE OF TRAFFIC. DO NOT DAMPEN BROOMS. ROUNDABOUT TRUCK APRONS SHALL HAVE A LIGHT BROOM FINISH.
- E. CURING: APPLY CURING COMPOUND FOR COLORED CONCRETE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. APPLY CURING COMPOUND AT CONSISTENT TIME FOR EACH POUR TO MAINTAIN CLOSE COLOR CONSISTENCY.
- F. PROTECT ADJACENT FINISHED SURFACES FROM SPLATTERS.
- G. DO NOT ADD WATER TO CONCRETE AT JOB SITE, FOG OR SPRAY SURFACE WITH WATER, OR PUT INTO PUMPS OR ONTO TOOLS OR BROOMS.

H. DO NOT APPLY COLOR ADDITIVES MEANT FOR INTEGRAL COLORING TO SURFACE OF CONCRETE.

PAYMENT WILL INCLUDE THE COST OF FURNISHING AND PLACING ALL OF THE MATERIALS, FINISHING, AND TESTING. THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICE PER SQUARE YARD FOR ITEM 609 - 6" CONCRETE TRAFFIC ISLAND, AS PER PLAN, TOOLED AND STAINED.

**ITM 632 - REMOVAL OF TRAFFIC SIGNAL INSTALLATION**

TRAFFIC SIGNAL INSTALLATIONS, INCLUDING SIGNAL HEADS, CABLE, MESSENGER WIRE, STRAIN POLES, CABINET, CONTROLLER, ETC., SHALL BE REMOVED IN ACCORDANCE WITH CMS 632.26 AND AS INDICATED ON THE PLANS. REMOVED ITEMS SHALL BE STORED ON THE PROJECT FOR SALVAGE BY ODOT.

**ITEMS TO BE STORED**

SIGNAL HEADS, CABLE, MESSENGER WIRE, STRAIN POLES, CABINET, AND CONTROLLER.

IN THE EVENT THE ITEMS STORED ON THE PROJECT FOR SALVAGE BY ODOT ARE NOT REMOVED, THE CONTRACTOR SHALL, WHEN DIRECTED BY THE ENGINEER IN WRITING, REMOVE AND DISPOSE OF THE ITEMS AT NO ADDITIONAL COST TO THE PROJECT.

SALVAGE OF TRAFFIC SIGNAL ITEMS SHALL BE COORDINATED WITH STEVE FRANKS - ODOT DISTRICT 3 TRAFFIC (419-207-7184) CONTRACTOR SHALL PROVIDE NOTIFICATION 5 DAYS IN ADVANCE OF REMOVAL AND STORAGE.

**ITEM 657 - RIPRAP FOR TREE PROTECTION, AS PER PLAN**

THIS WORK CONSISTS OF FURNISHING AND PLACING RIPRAP ON TOP OF THE GEOTEXTILE FABRIC WITHIN THE CIRCLE AREA OF THE ROUNDABOUT AS SHOWN IN THE PLANS.

**MATERIALS:**

USE A NON-CRUSHED NATURAL ROCK GRAVEL. LIMESTONE IS NOT ACCEPTABLE. THE SOUNDNESS REQUIREMENTS OF 657.02 ARE WAIVED. THE GRADATION REQUIRED WILL BE 100% PASSING A 6" SIEVE AND 0% PASSING A 3" SIEVE. PLACE STONES IN A 6" LIFT. MANUAL PLACING REQUIREMENTS PER 657.05 IS WAIVED.

**METHOD OF MEASUREMENT AND PAYMENT:**

THE GEOTEXTILE FABRIC IS PAID SEPARATE AND UNDER ITEM 204 GEOTEXTILE FABRIC. MEASUREMENT AND PAYMENT FOR THE GRAVEL MATERIAL SHALL BE BY THE SQUARE YARD, COMPLETE IN PLACE AND ACCEPTED BY THE ENGINEER AS PER ITEM 657 - RIPRAP FOR TREE PROTECTION, AS PER PLAN.

**CONVENTIONAL SYMBOLS**

County Line	-----	Edge of Shoulder (Ex)	-----
Township Line	-----	Edge of Shoulder (Pr)	-----
Section Line	-----	Ditch / Creek (Ex)	-----
Corporation Line	----- or -----	Ditch / Creek (Pr)	-----
Fence Line (Ex)	-----x-----x-----x-----x-----	Tree Line (Ex)	-----
Center Line	-----	Ownership Hook Symbol	-----, Example -----
Right of Way (Ex)	-----Ex R/W-----	Property Line Symbol	-----, Example -----
Right of Way (Pr)	-----R/W-----	Break Line Symbol	-----, Example -----
Standard Highway Ease.(Ex)	-----Ex SH-----	Tree (Pr)	-----, Tree (Ex) -----, Shrub (Ex) -----
Standard Highway Ease.(Pr)	-----SH-----	Tree (Remove)	-----, Shrub (Remove) -----
Temporary Right of Way	-----TMP-----	Evergreen (Ex)	-----, Stump -----
Channel Ease. (Pr)	-----CH-----	Evergreen (Remove)	-----, Stump (Remove) -----
Utility Ease. (Ex)	-----Ex U-----	Wetland (Pr)	-----, Grass (Pr) -----, Aerial Target
Railroad	----- or -----	Post (Ex)	-----, Mailbox (Ex) -----, Mailbox (Pr) -----
Guardrail (Ex)	----- (Pr) -----	Light (Ex)	-----, Telephone Marker (Ex) -----
Construction Limits	-----	Fire Hydrant (Ex)	-----, Water Meter (Ex) -----
Edge of Pavement (Ex)	-----	Water Valve (Ex)	-----, Utility Valve Unknown (Ex.) -----
Edge of Pavement (Pr)	-----	Telephone Pole (Ex)	-----, Power Pole (Ex) -----
		Light Pole (Ex)	-----

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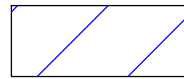
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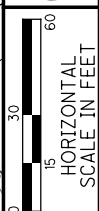
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PHASE 1 CONSTRUCTION



ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A

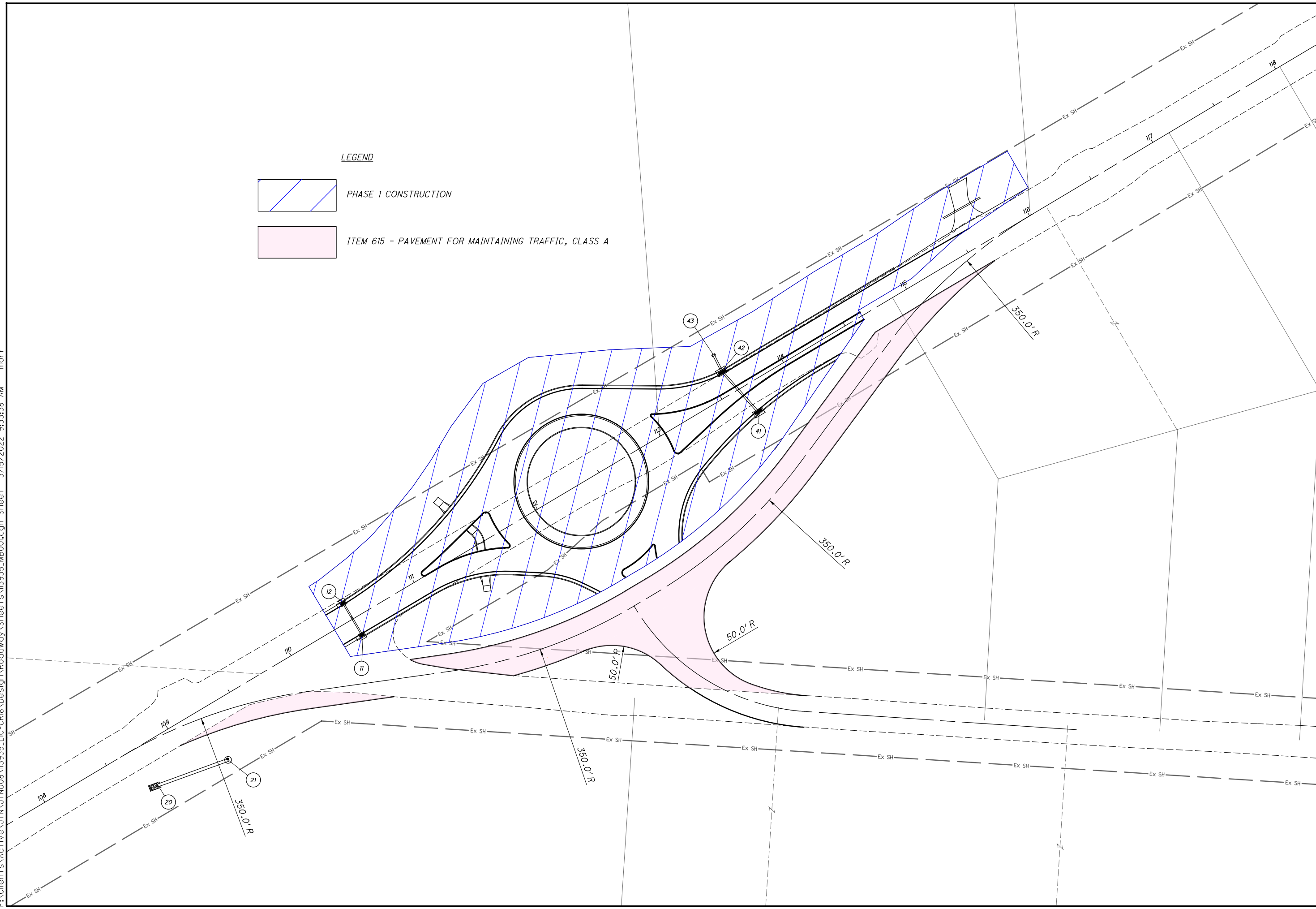


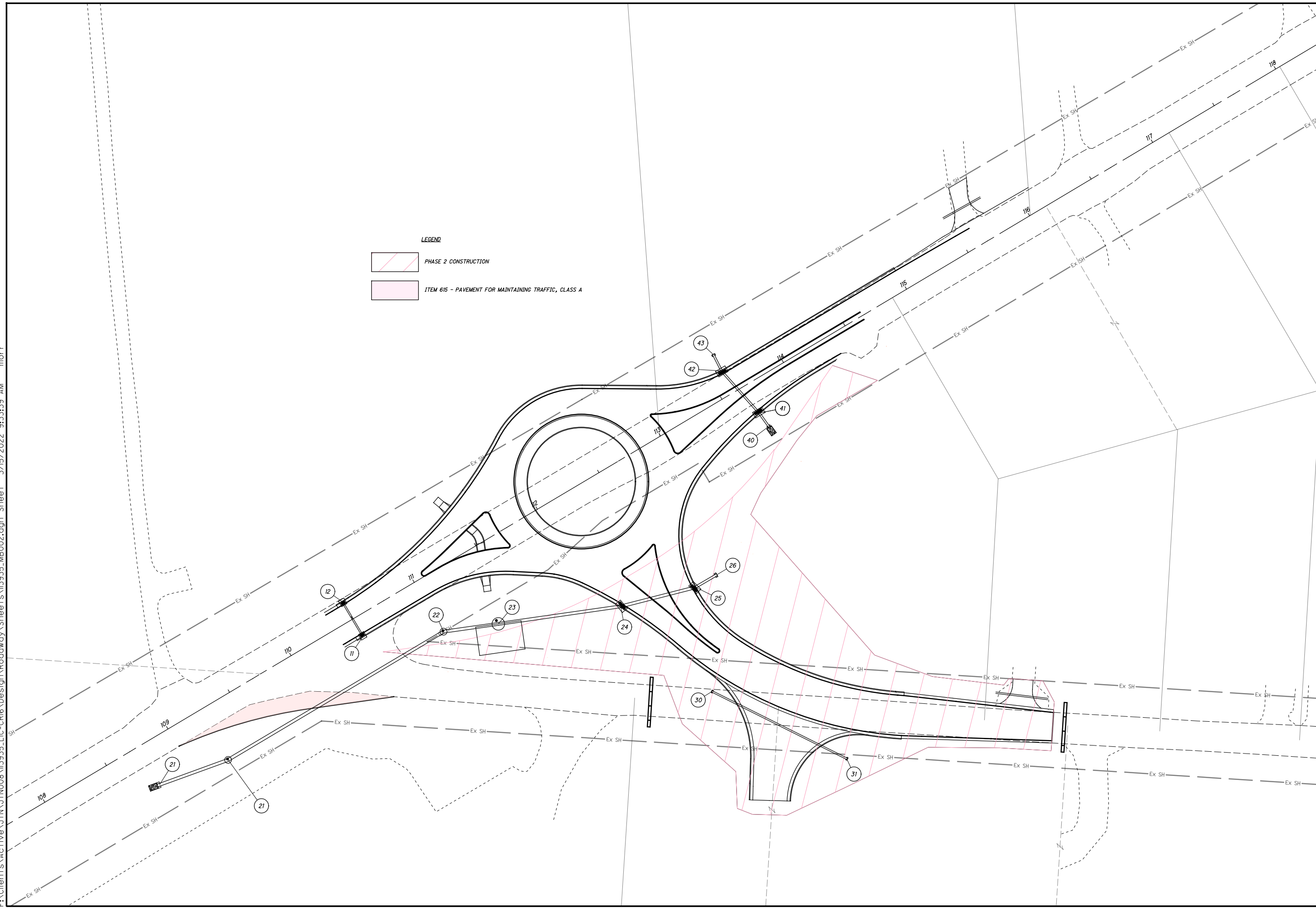
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**MAINTENANCE OF TRAFFIC - PHASE 1**



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-  PHASE 2 CONSTRUCTION
-  ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A

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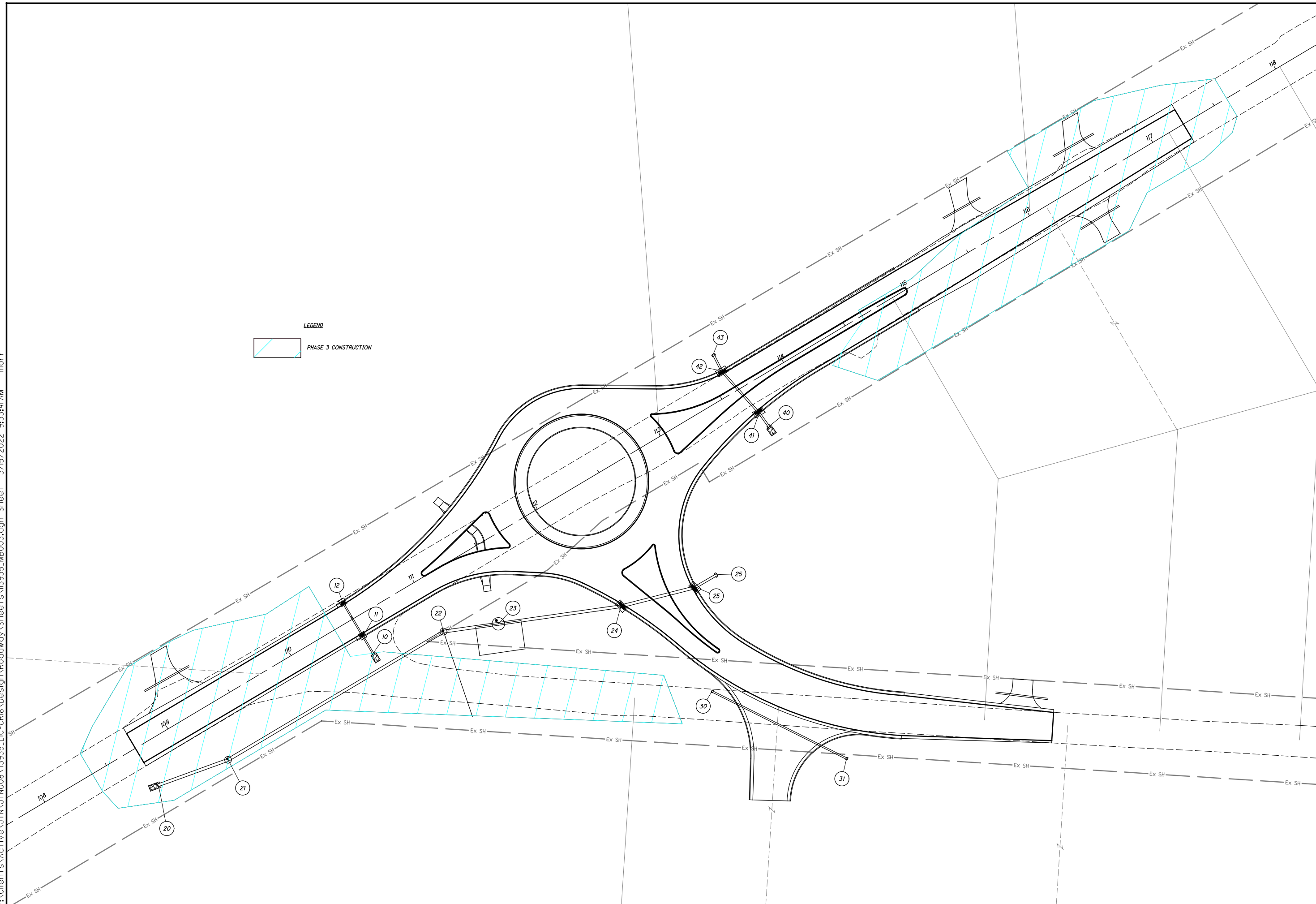
  


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**MAINTENANCE OF TRAFFIC - PHASE 2**

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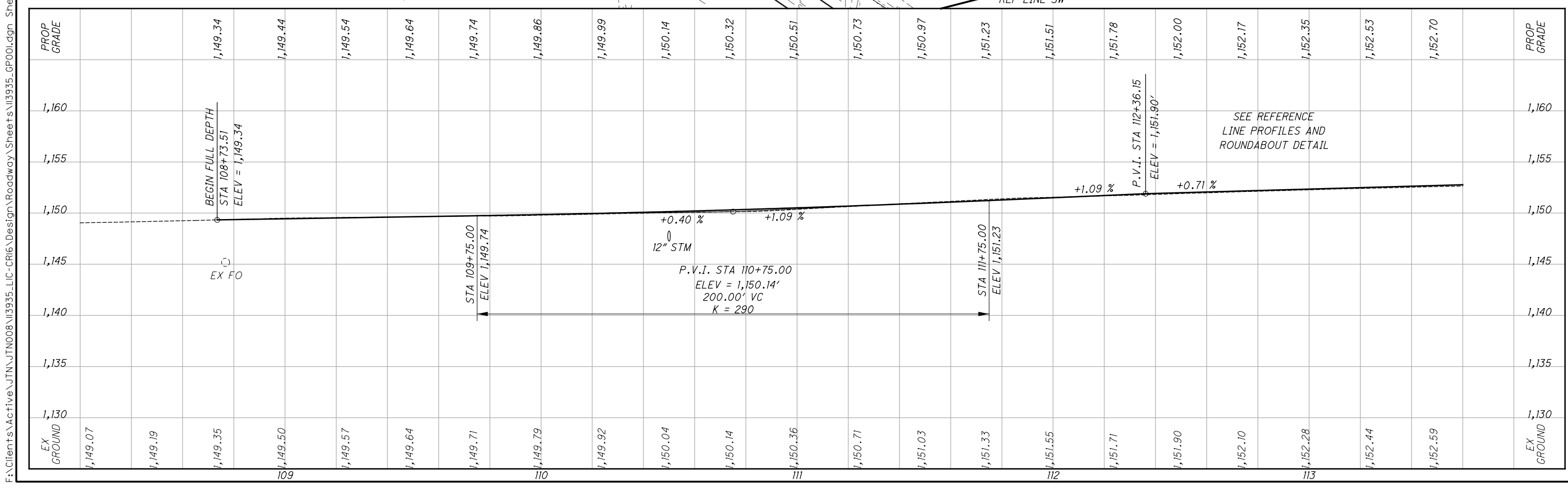
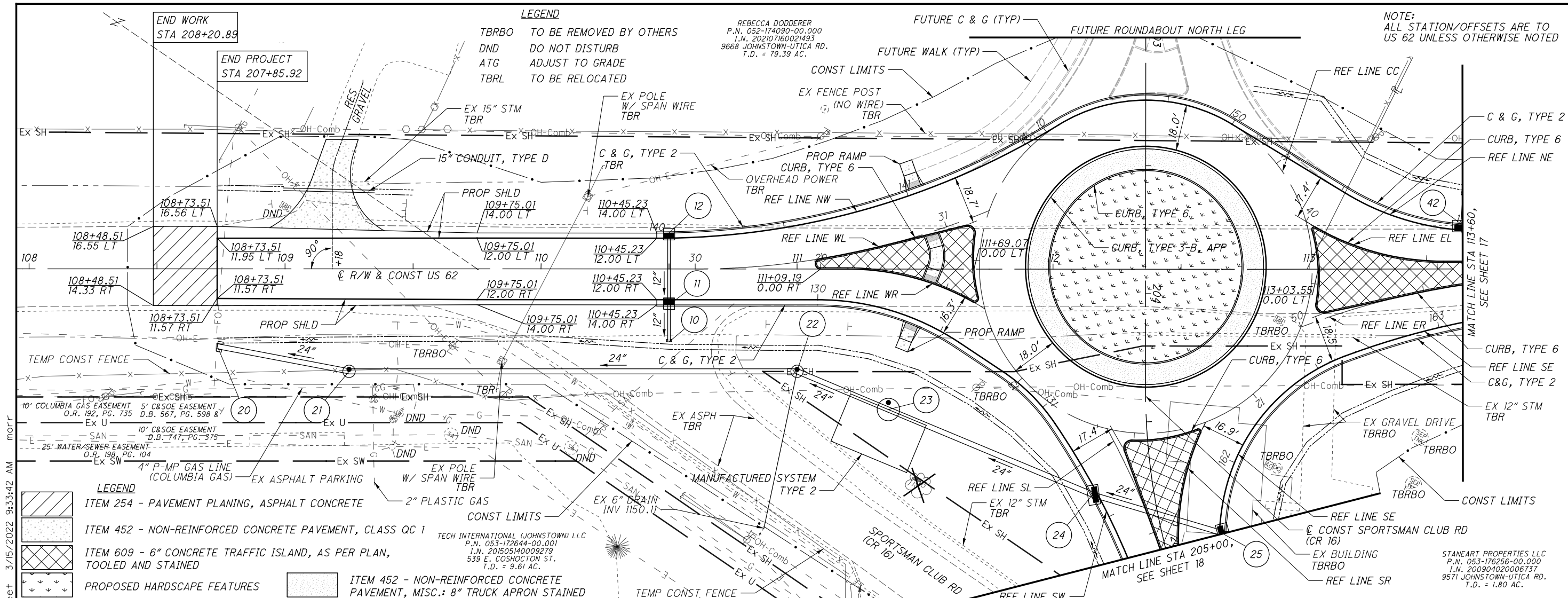
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PHASE 3 CONSTRUCTION

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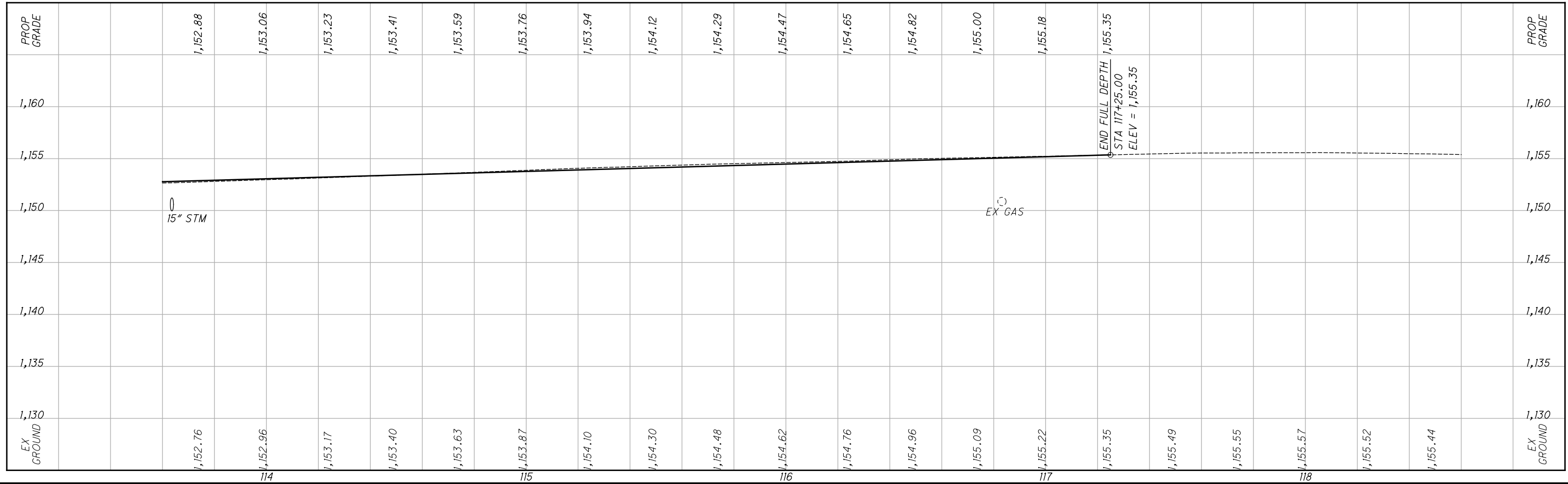
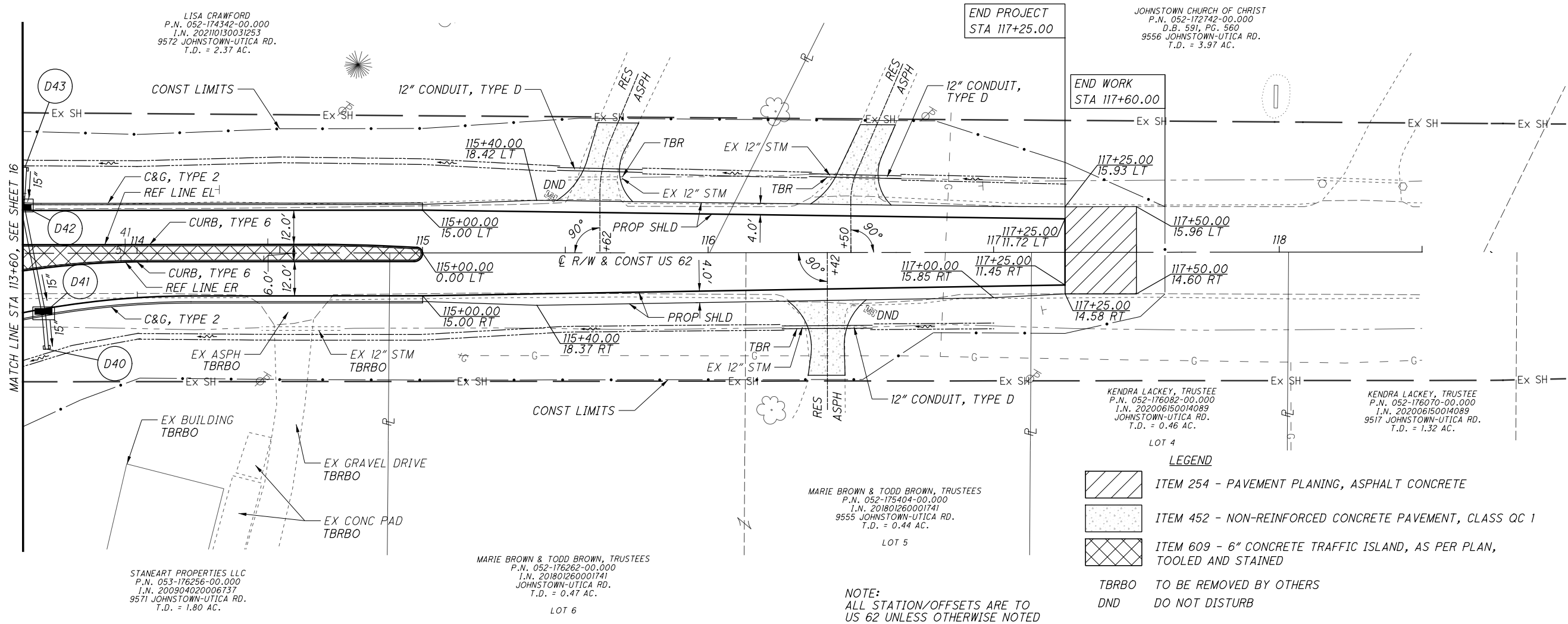
**MAINTENANCE OF TRAFFIC - PHASE 3**

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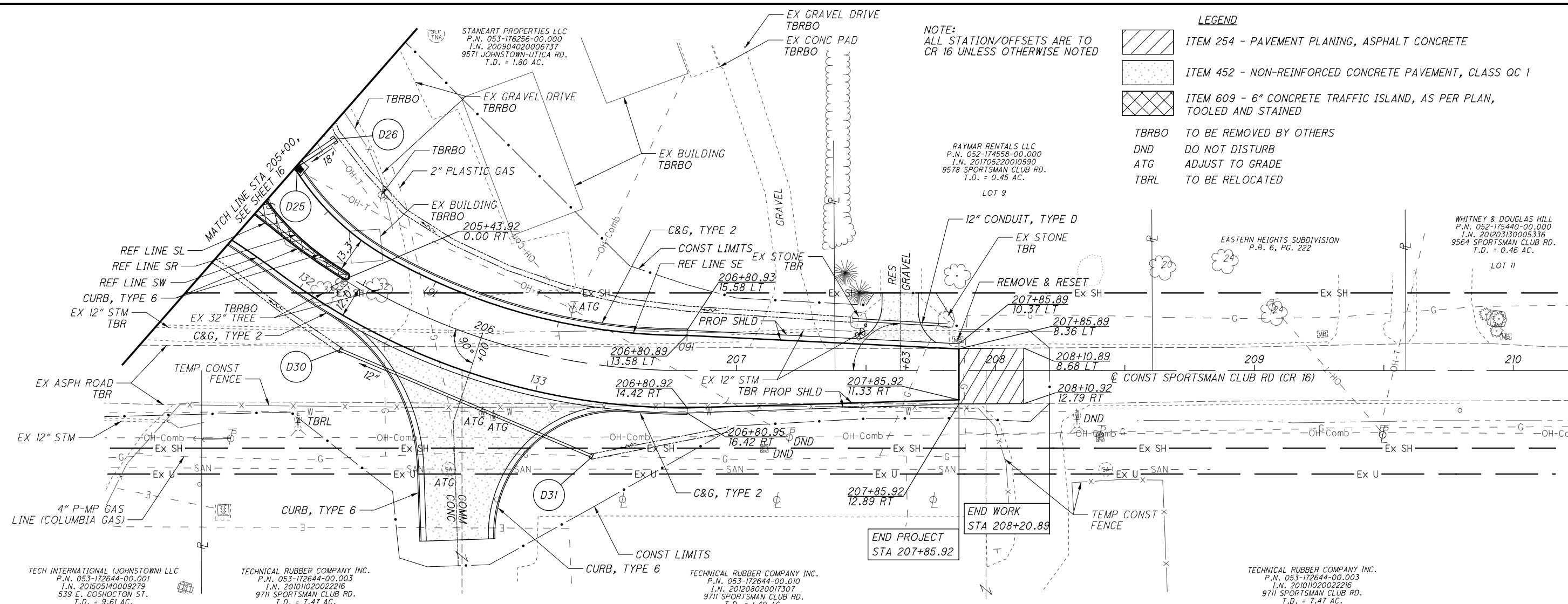


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**PLAN AND PROFILE - US 62  
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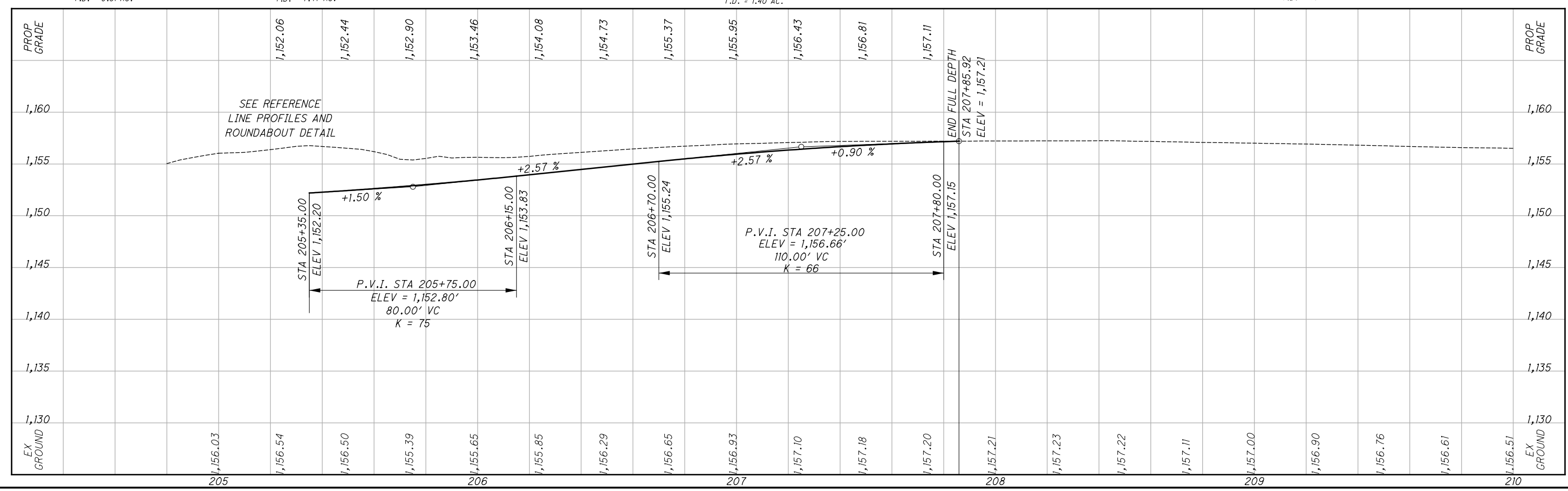
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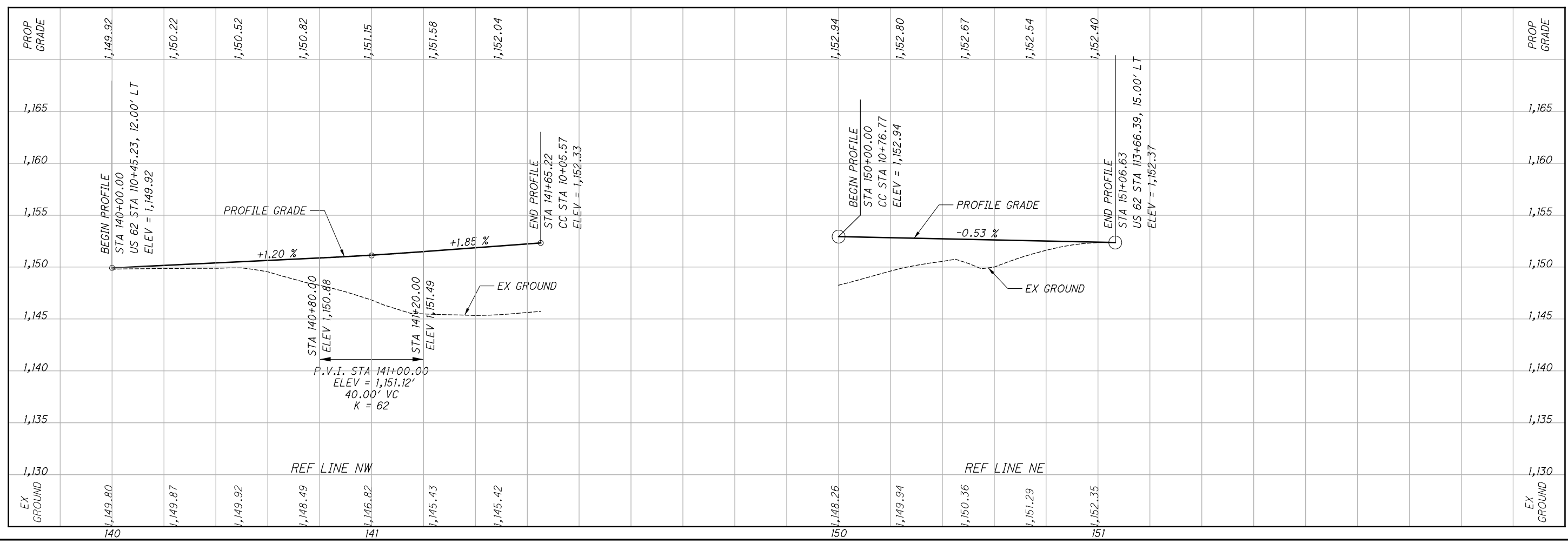
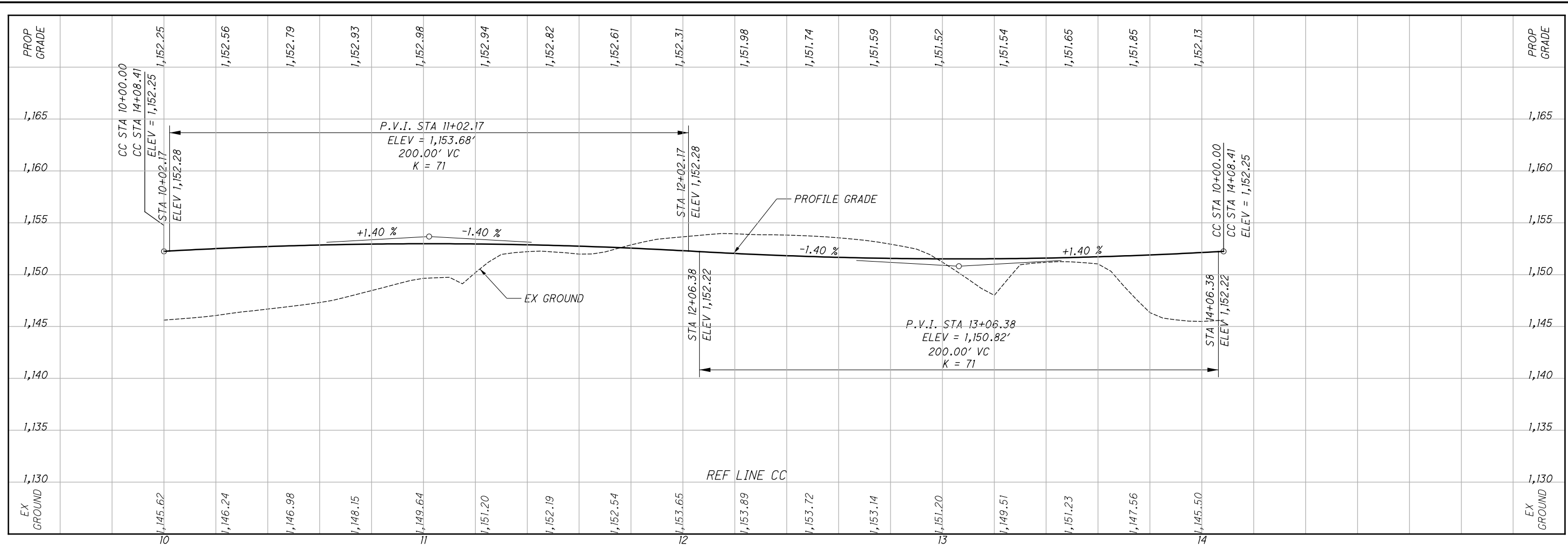
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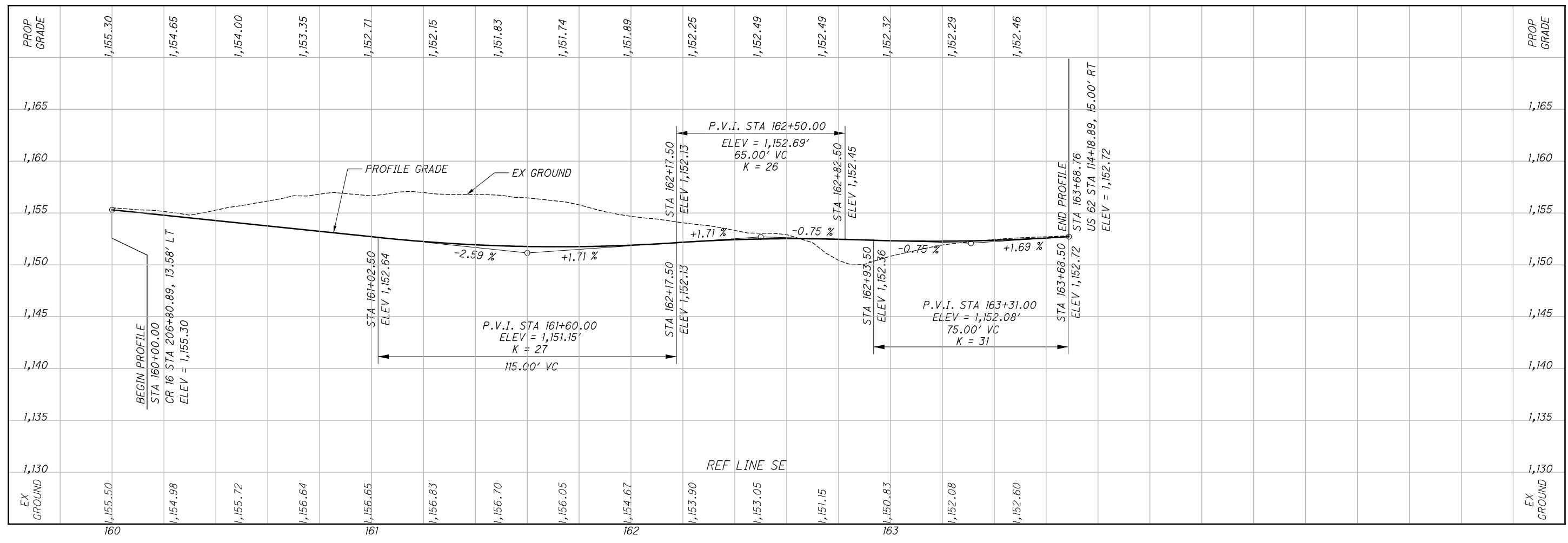
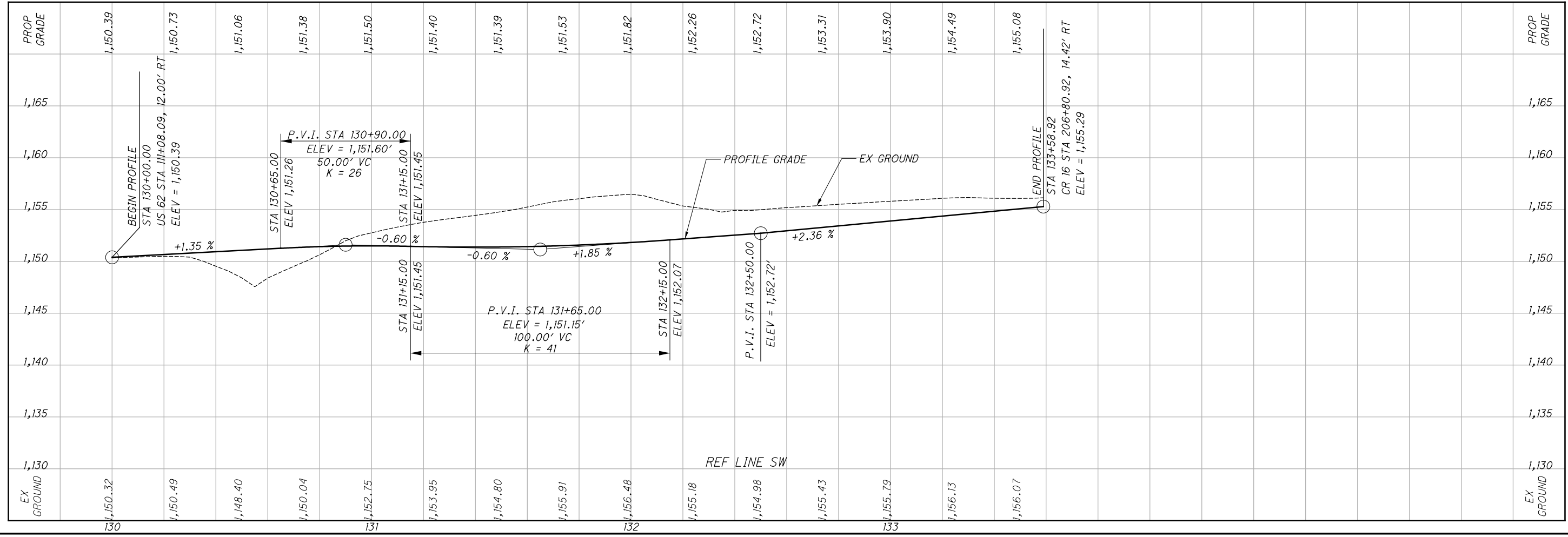
- LEGEND**
- ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE
  - ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1
  - ITEM 609 - 6" CONCRETE TRAFFIC ISLAND, AS PER PLAN, TOOLED AND STAINED
  - TBRBO TO BE REMOVED BY OTHERS
  - DND DO NOT DISTURB
  - ATG ADJUST TO GRADE
  - TBRL TO BE RELOCATED

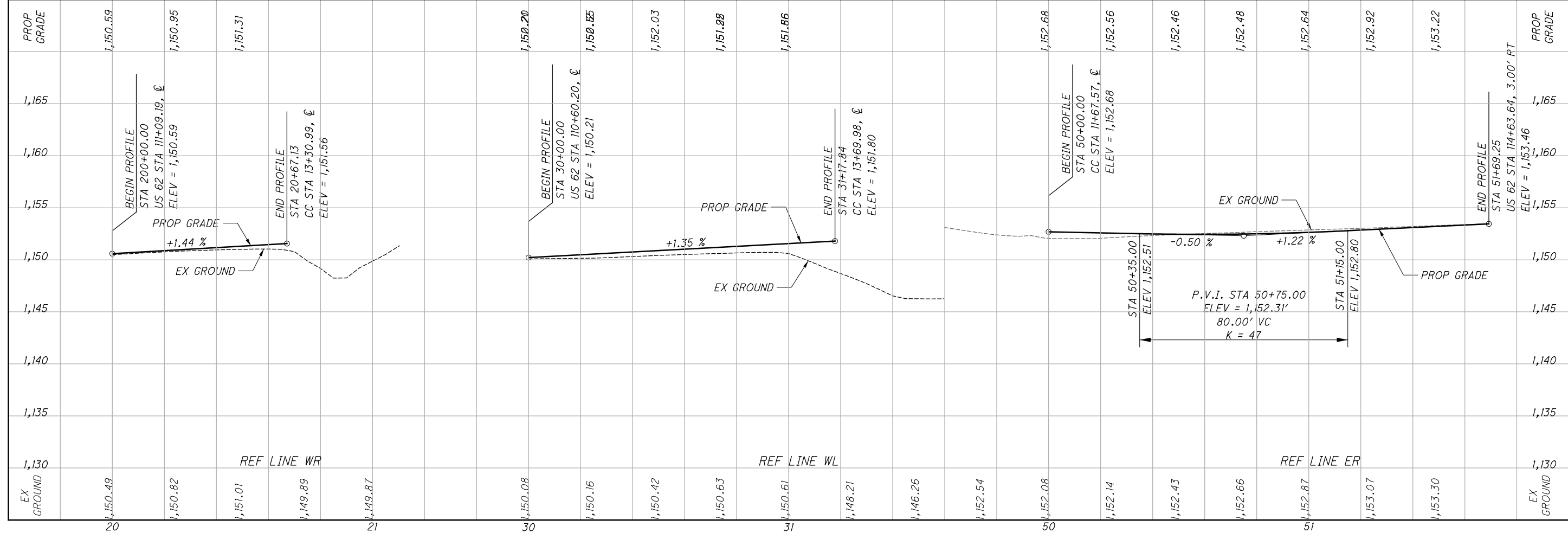
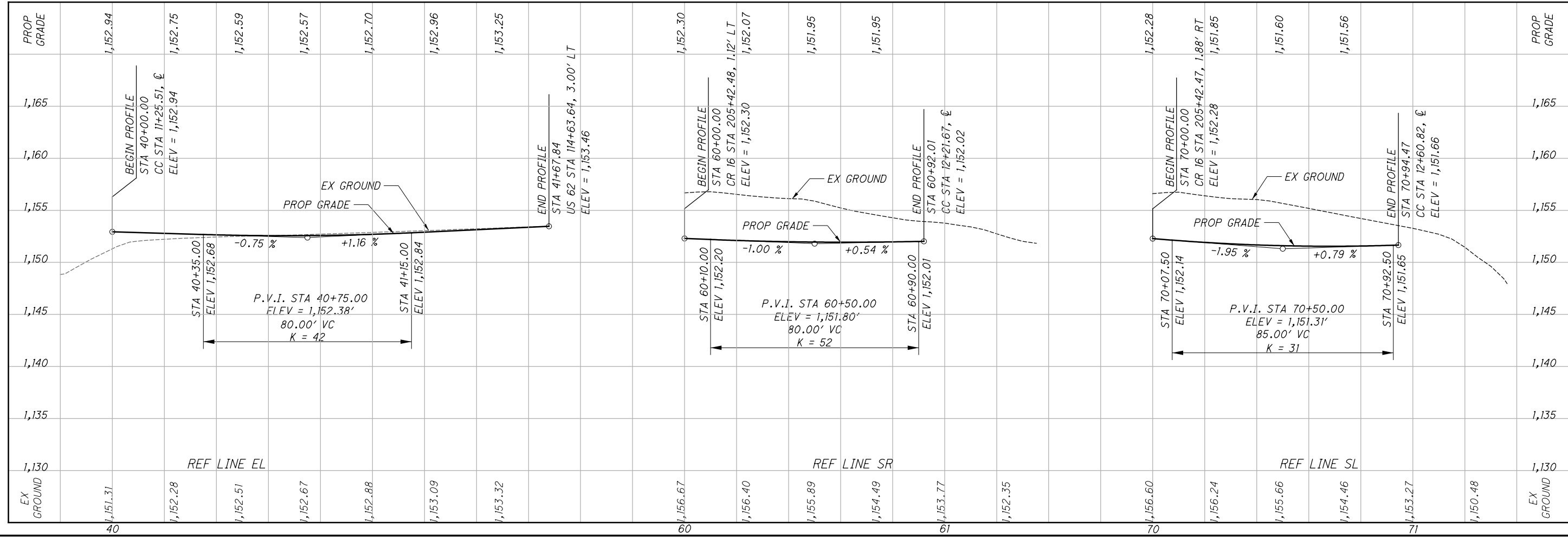


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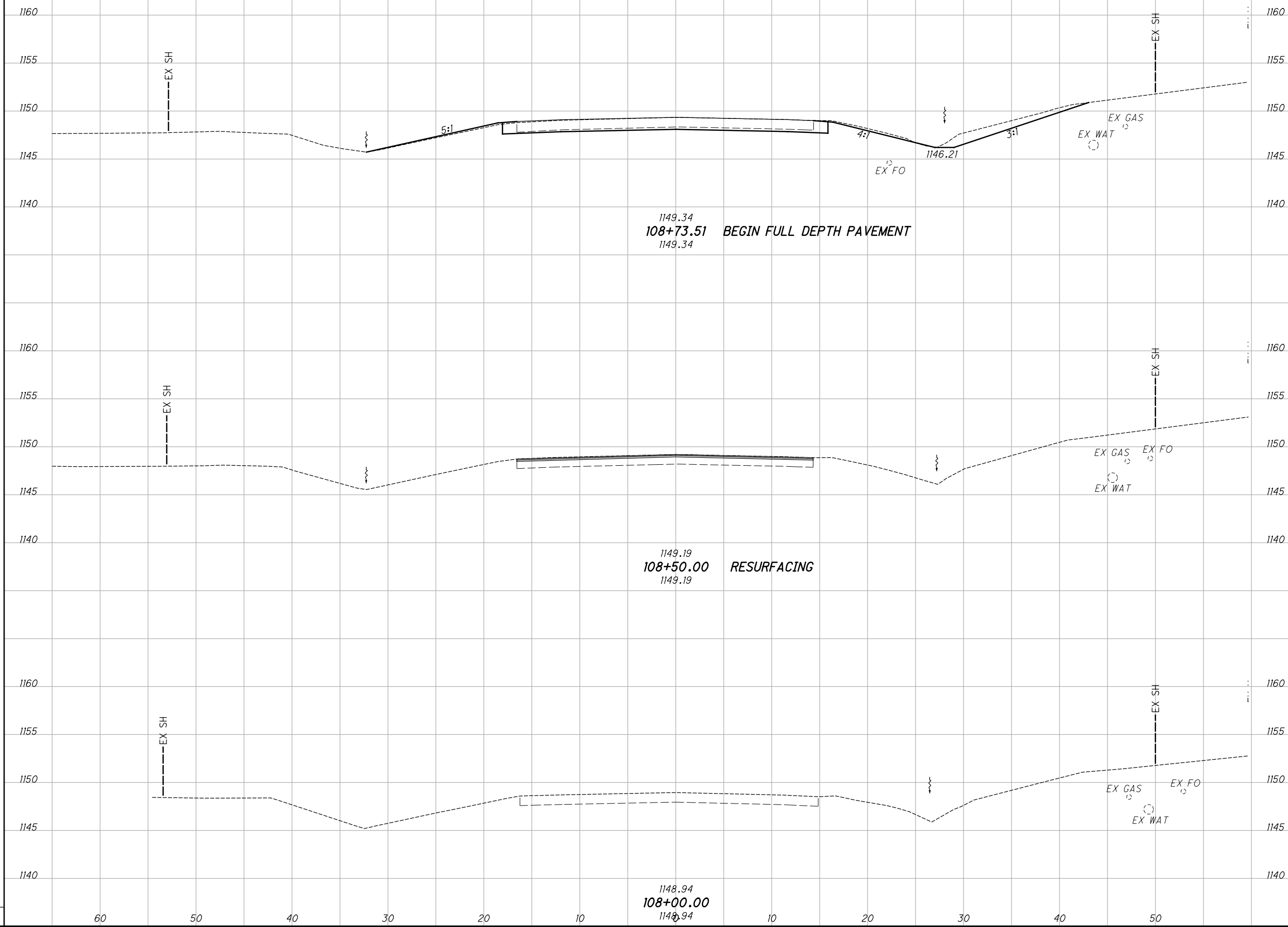




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**CROSS SECTIONS US 62**  
**STA. 108+00.00 TO STA. 108+73.51**

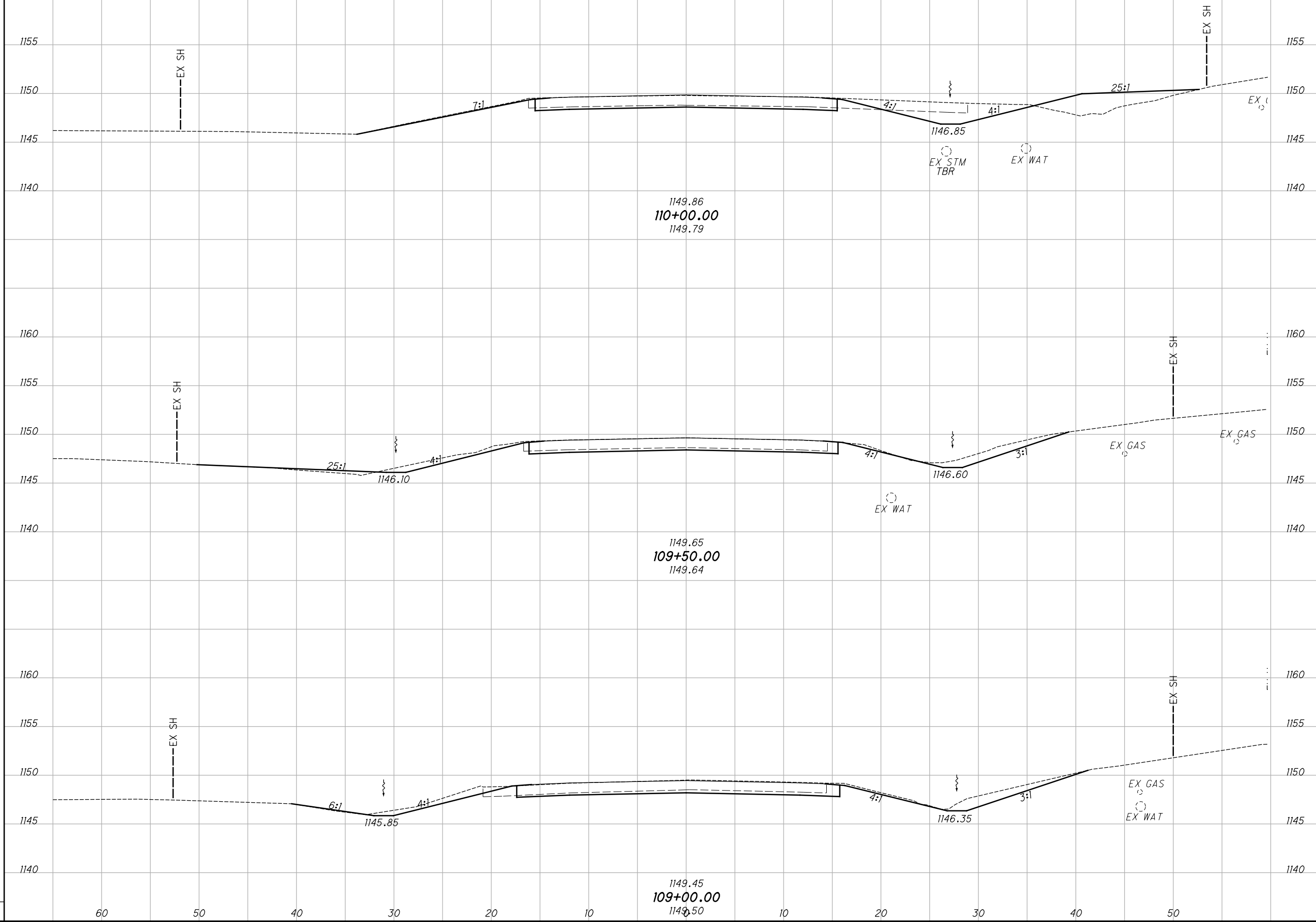
**LIC - CR16 - 0.007**

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SEEDING  
END SO.  
WIDTH YDS.

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	MRO	NRV



**CROSS SECTIONS US 62**  
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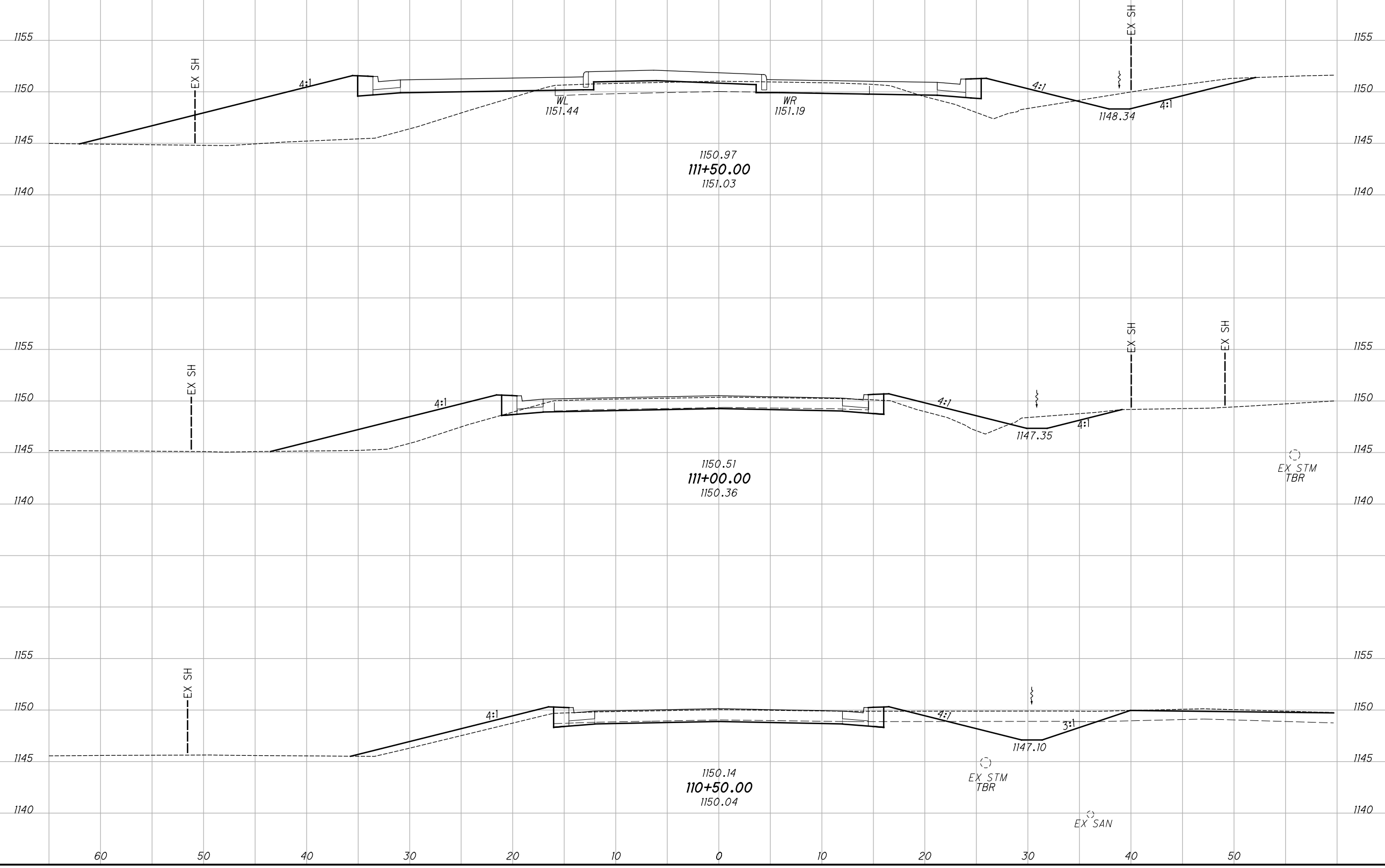
**LIC - CR16 - 0.007**

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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	MRO	NRV



**CROSS SECTIONS US 62**  
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**LIC - CR16 - 0.007**

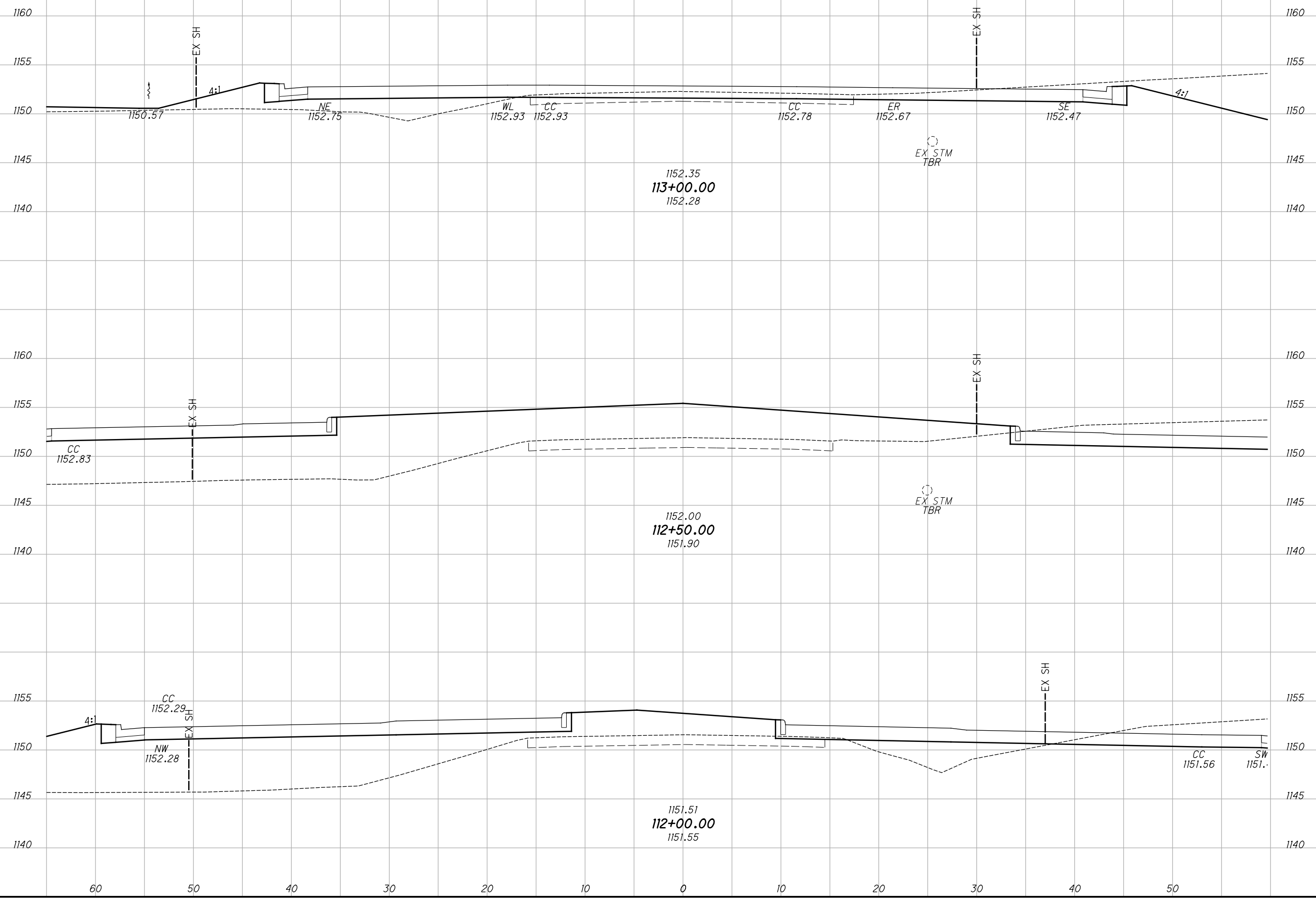
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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	MRO	NRV



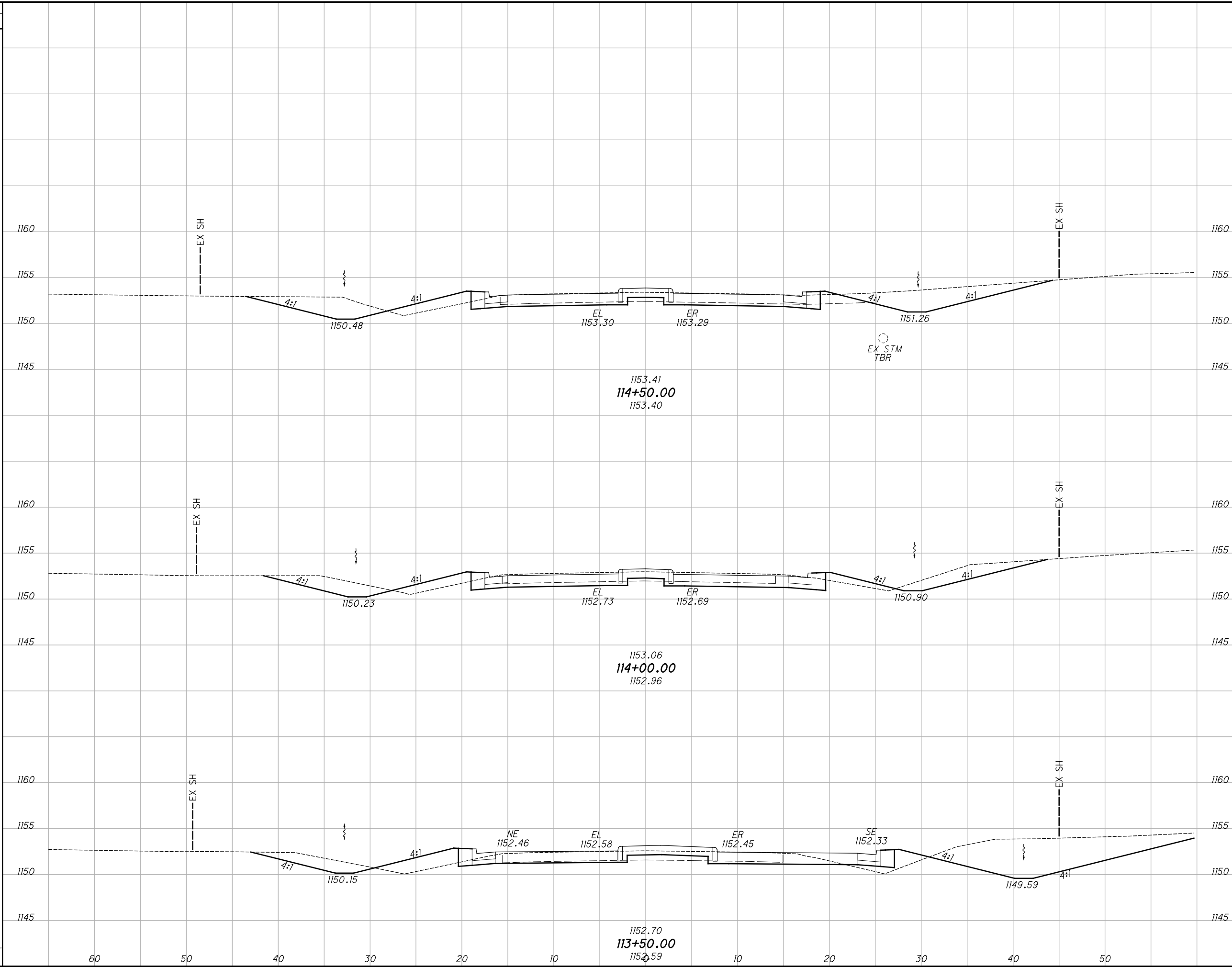
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**STA. 112+00.00 TO STA. 113+00.00**

**LIC-CR16-0.007**

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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	MRO	CHECKED
					NRV



**CROSS SECTIONS US 62**  
**STA. 113+50.00 TO STA. 114+50.00**

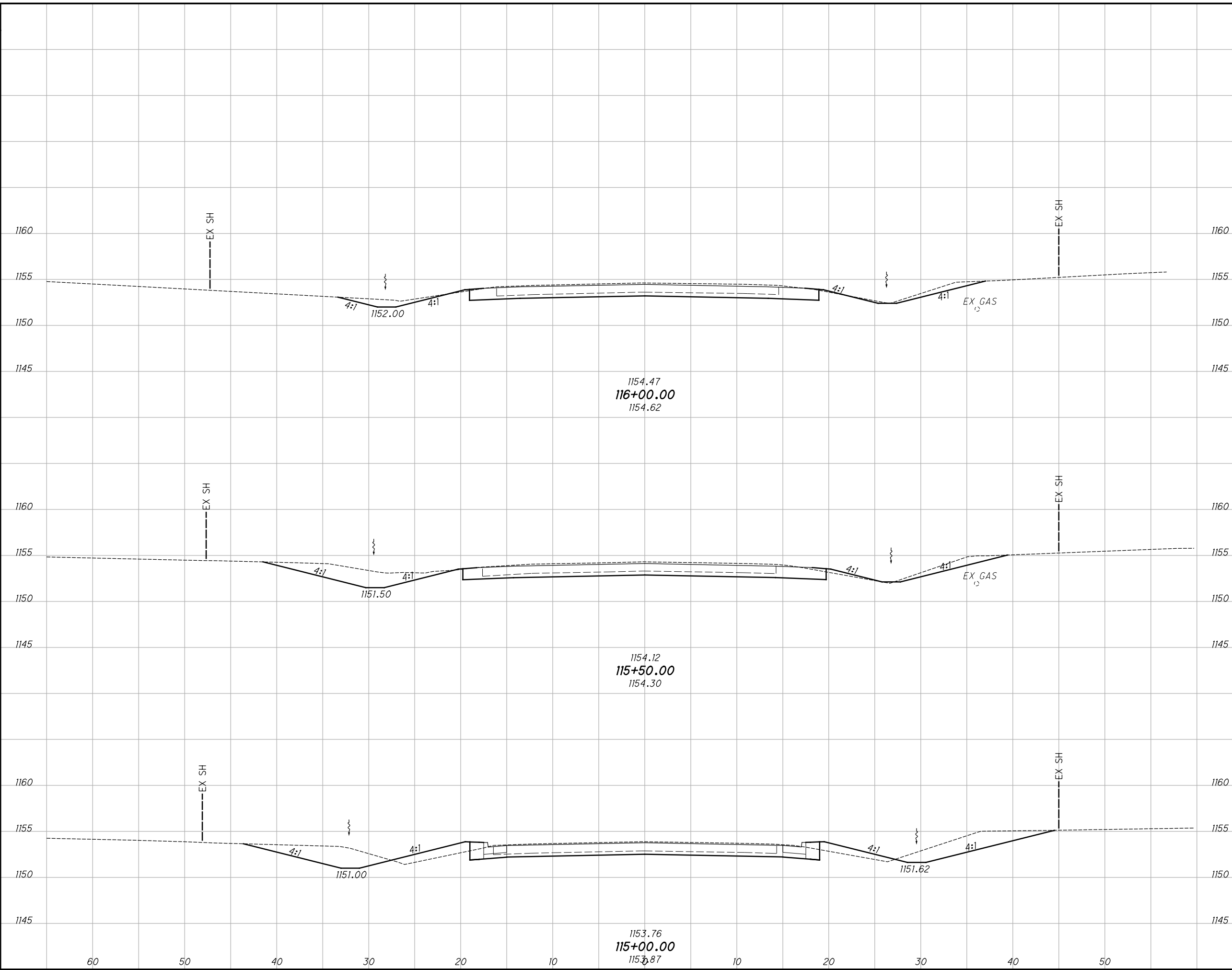
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26  
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SEEDING  
END SO.  
WIDTH YDS.

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	MRO	NRV



**CROSS SECTIONS US 62**  
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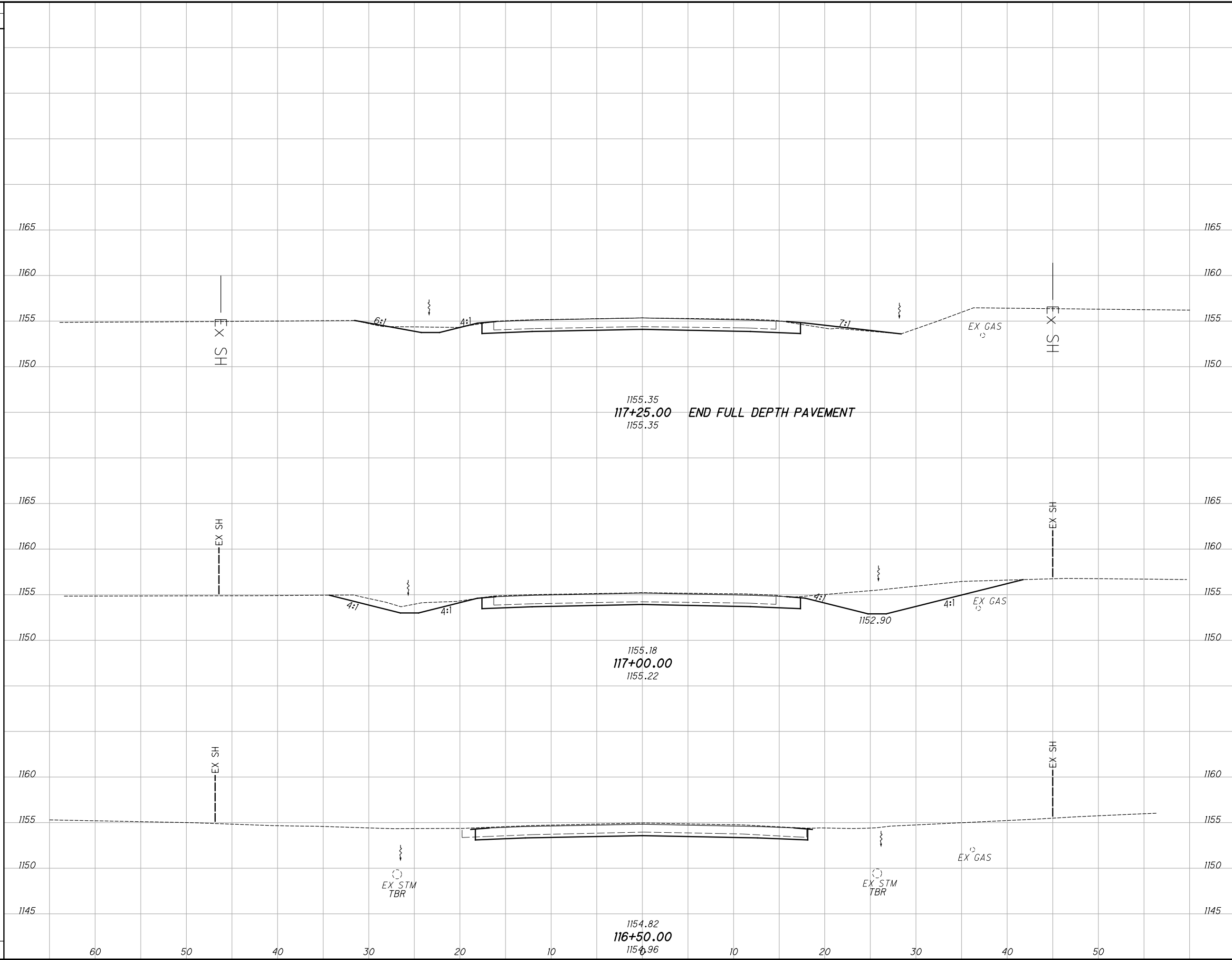
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SEEDING  
END SO.  
WIDTH YDS.

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	MRO	NRV



**CROSS SECTIONS US 62**  
**STA. 116+50.00 TO STA. 117+25.00**

**LIC - CR16 - 0.007**

28  
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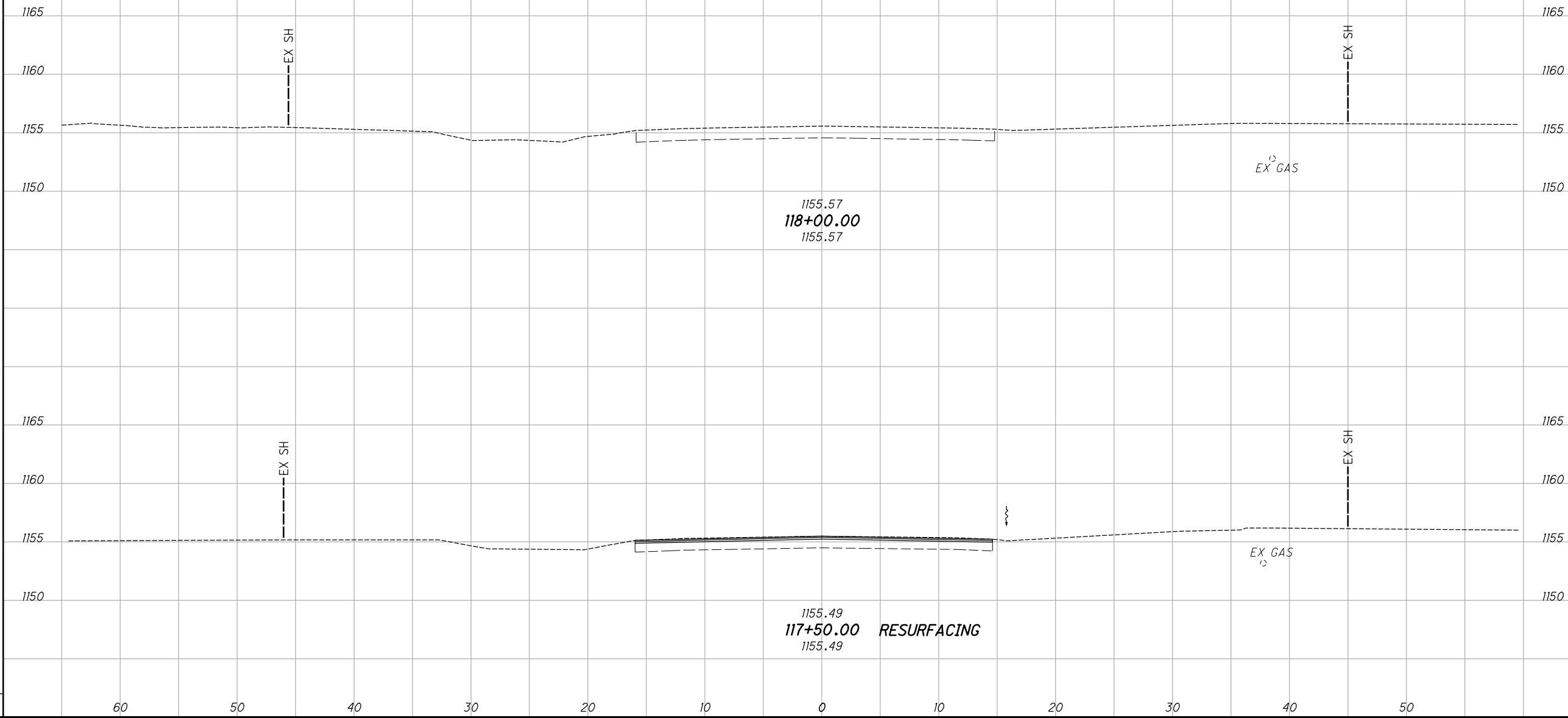
SEEDING

END SO.  
WIDTH YDS.

END AREA

VOLUME

CALCULATED  
MRO  
CHECKED  
NRV



CROSS SECTIONS US 62  
STA. 117+50.00 TO STA. 118+00.00

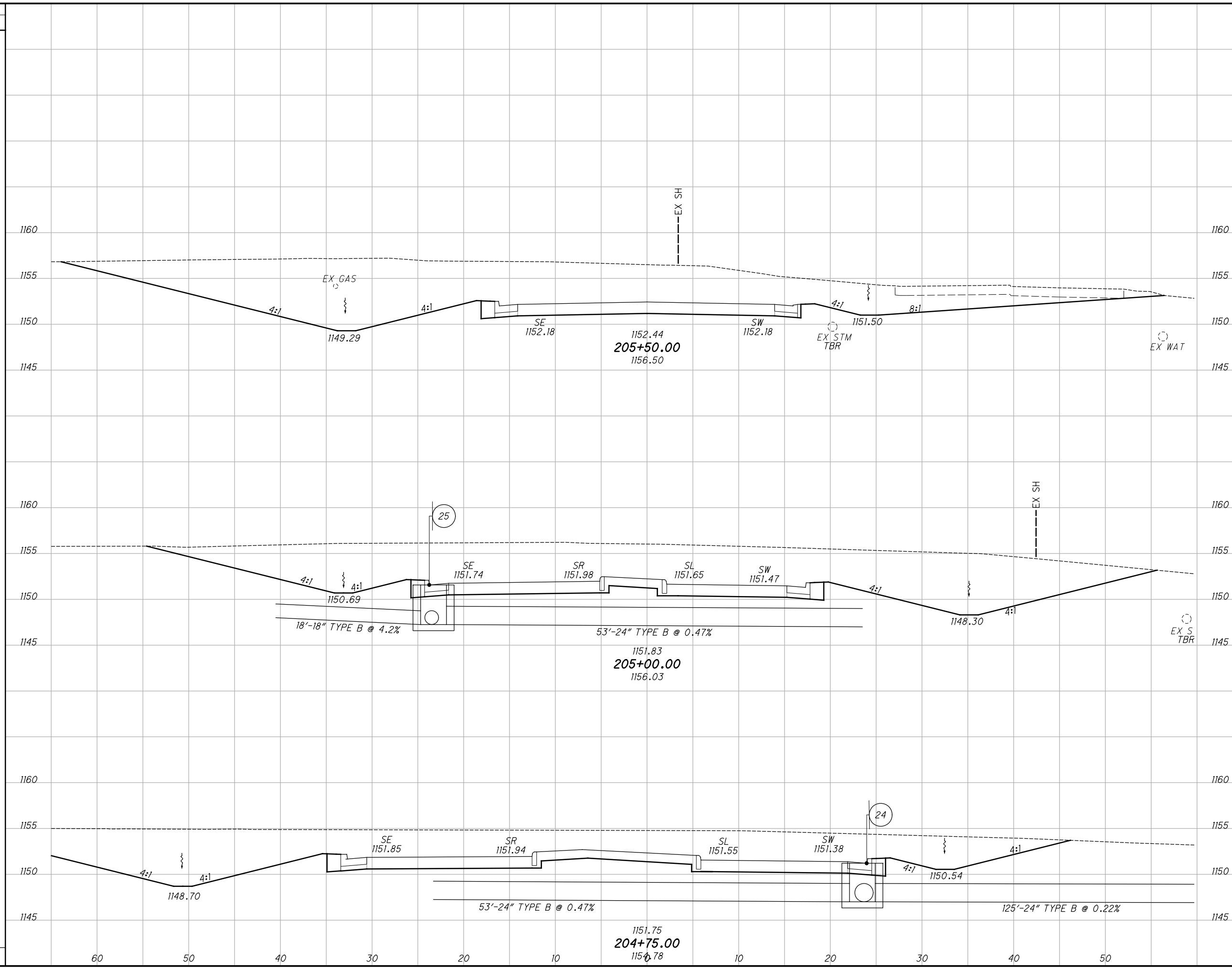
LIC-CR16-0.007

29  
44

SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED  
MRO CHECKED  
NRV

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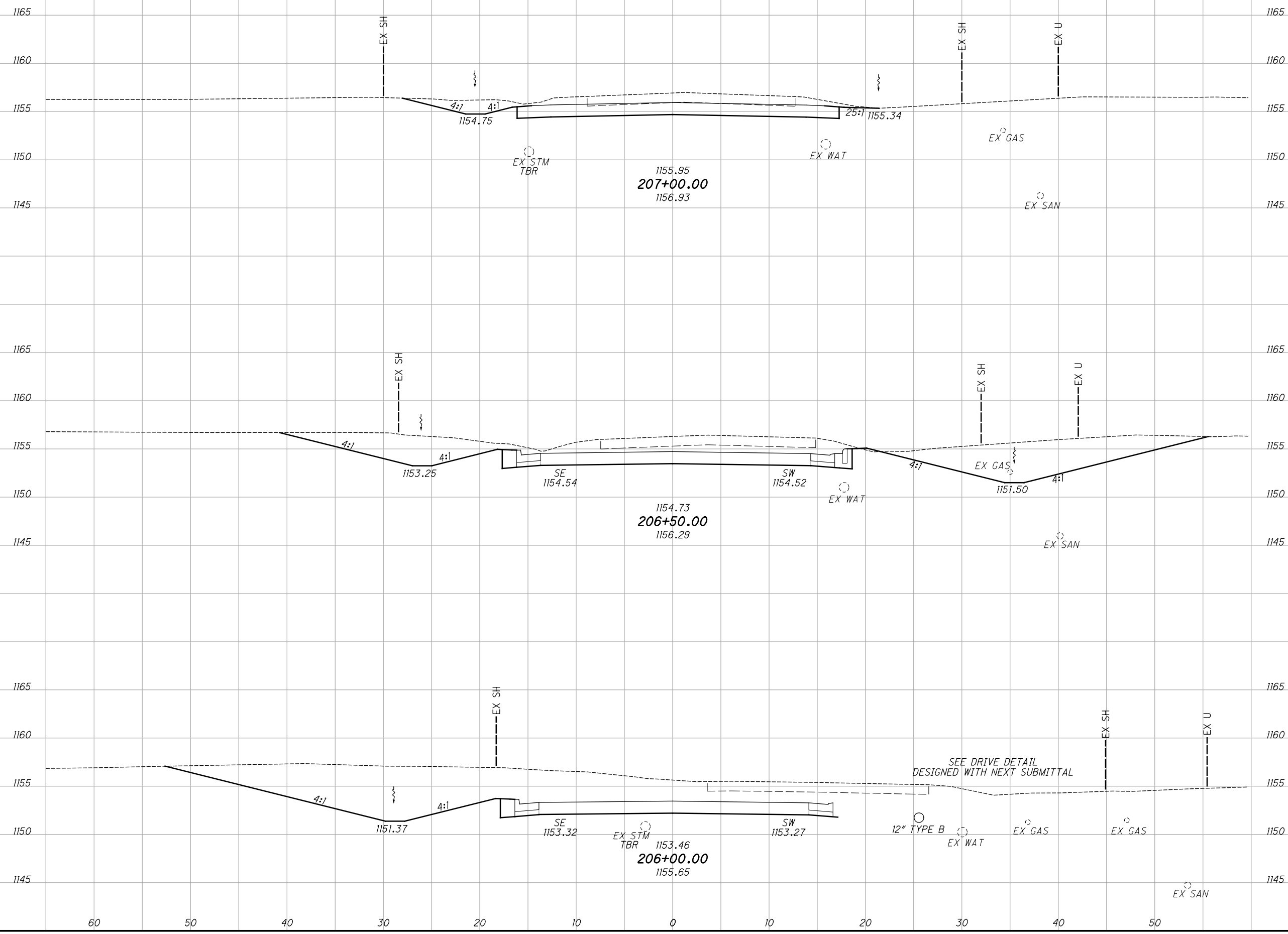


END AREA	VOLUME		CALCULATED	MRO	CHECKED	NRV		
	CUT	FILL						
<b>CROSS SECTIONS CR 16</b>								
<b>STA. 204+75.00 TO STA. 205+50.00</b>								
<b>LIC-CR16-0.007</b>								
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30								
44								

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SEEDING  
END SO.  
WIDTH YDS.

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	MRO	NRV



**CROSS SECTIONS CR 16**  
**STA. 206+00.00 TO STA. 207+00.00**

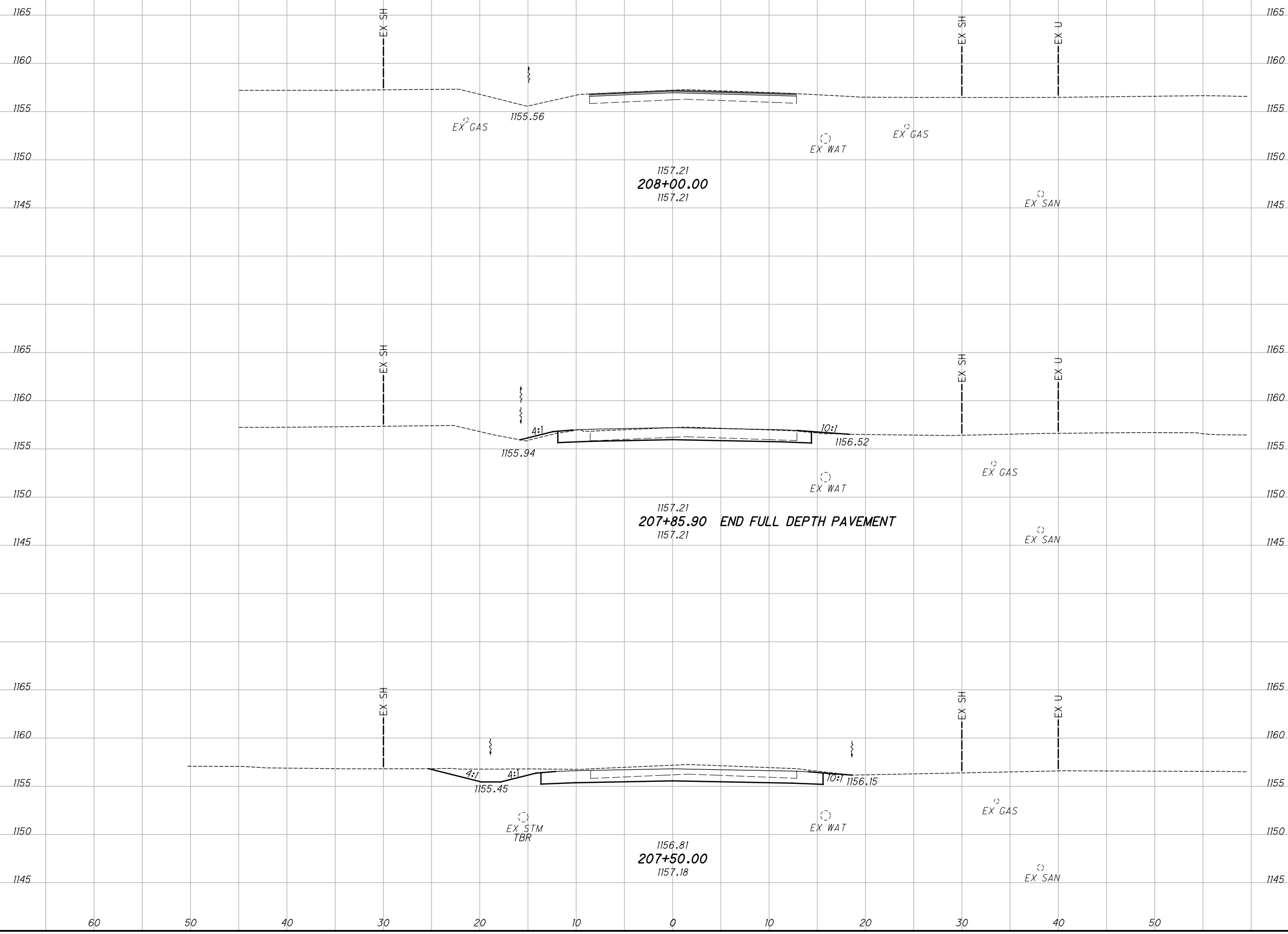
**LIC - CR16 - 0.007**

31  
44

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SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED  
MRO CHECKED  
NRV



CROSS SECTIONS CR 16  
STA. 207+50.00 TO STA. 208+00.00

LIC-CR16-0.007

32  
44



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SEEDING

END SO.  
WIDTH YDS.

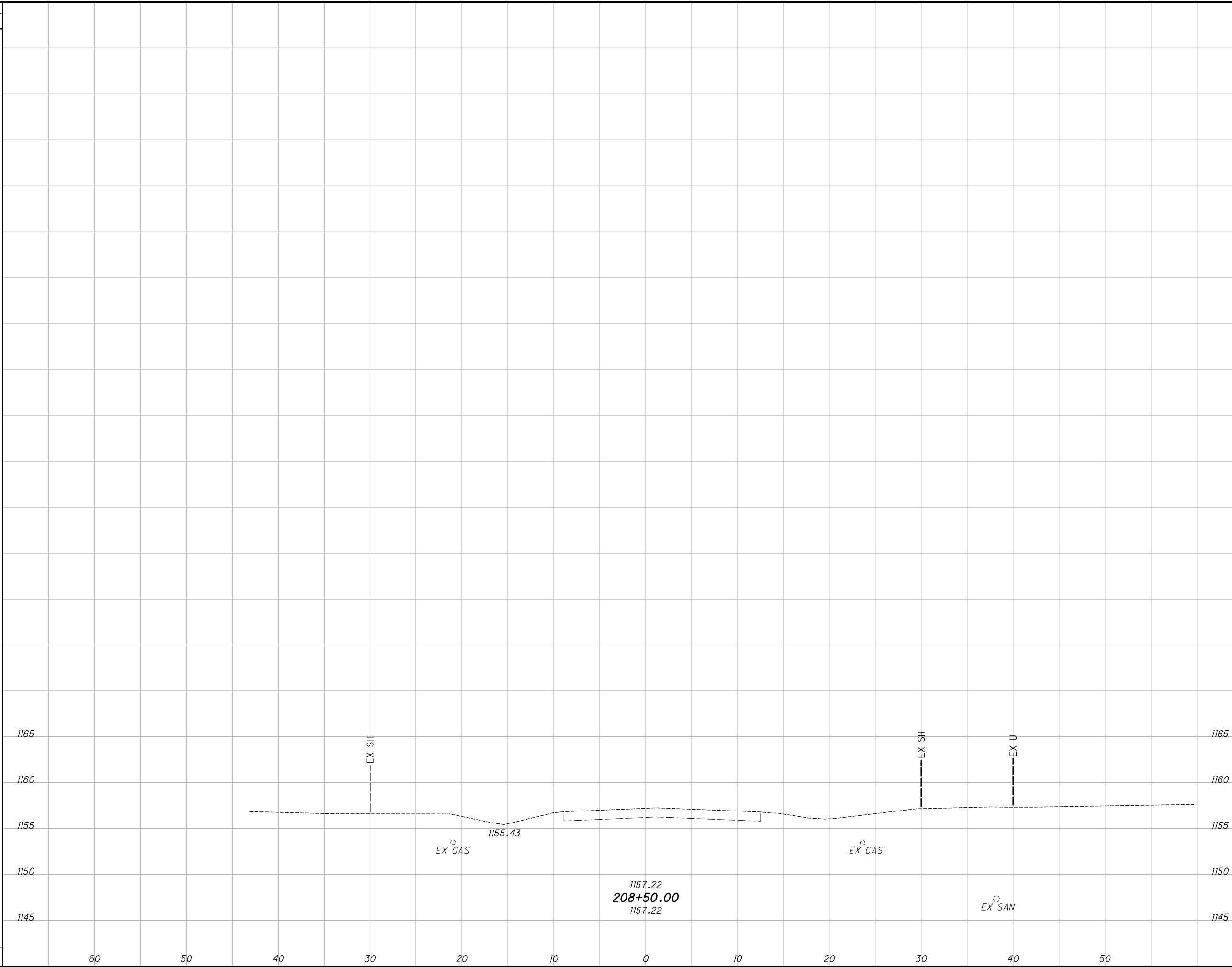
END AREA

CUT FILL

VOLUME

CUT FILL

CALCULATED  
MRO  
CHECKED  
NRV



CROSS SECTIONS CR 16  
STA. 208+50.00

LIC - CR16 - 0.007

33  
44



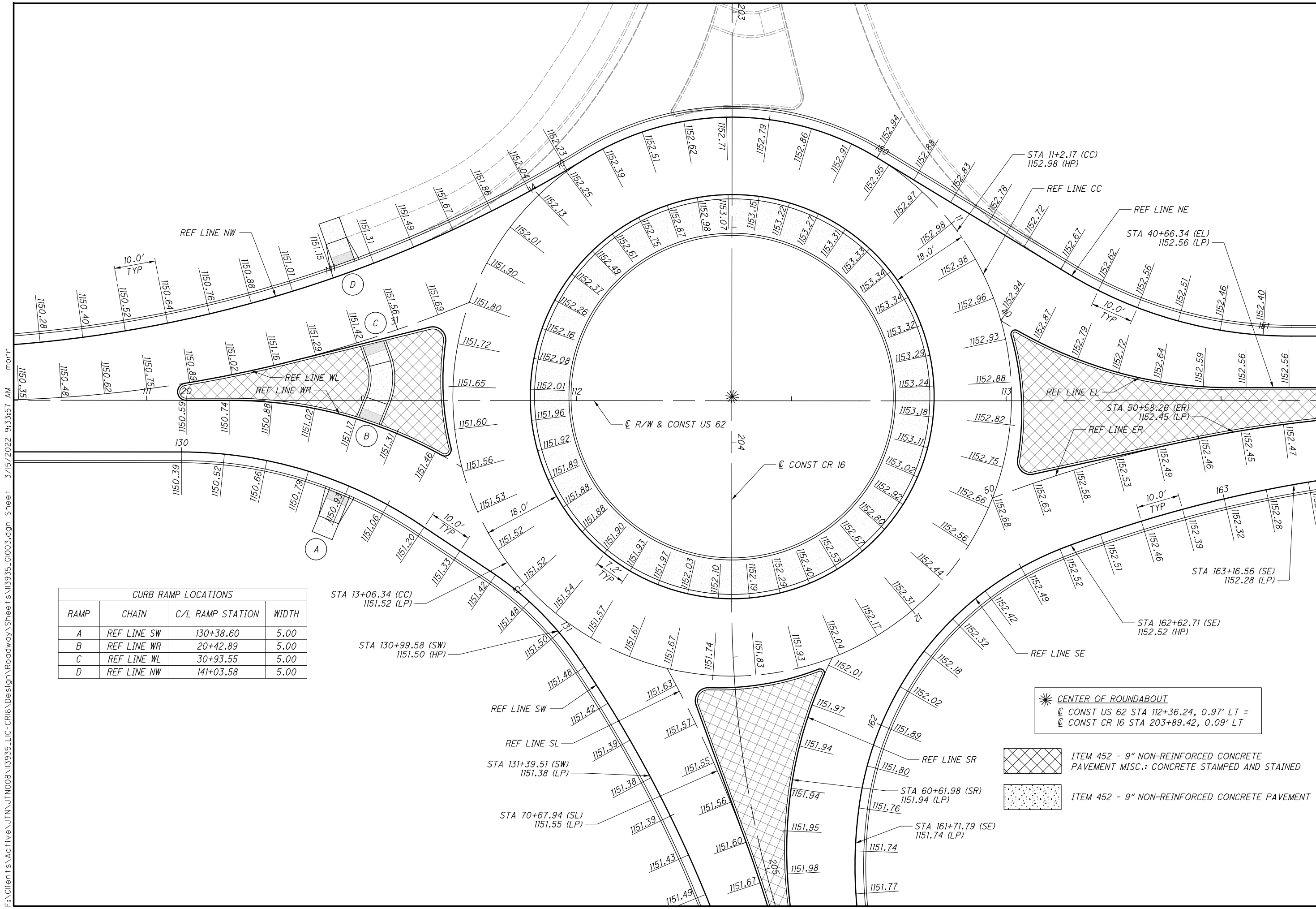
0 5 10 20  
HORIZONTAL  
SCALE IN FEET

CALCULATED  
MRO  
CHECKED  
NRV

**ROUNDABOUT DETAIL  
US 62 AND CR 16**

**LIC - CR16 - 0.007**

34  
44



CURB RAMP LOCATIONS			
RAMP	CHAIN	C/L RAMP STATION	WIDTH
A	REF LINE SW	130+38.60	5.00
B	REF LINE WR	20+42.89	5.00
C	REF LINE WL	30+93.55	5.00
D	REF LINE NW	141+03.58	5.00

★ CENTER OF ROUNDABOUT  
 ℄ CONST US 62 STA 112+36.24, 0.97' LT =  
 ℄ CONST CR 16 STA 203+89.42, 0.09' LT

ITEM 452 - 9" NON-REINFORCED CONCRETE PAVEMENT MISC.: CONCRETE STAMPED AND STAINED  
 ITEM 452 - 9" NON-REINFORCED CONCRETE PAVEMENT

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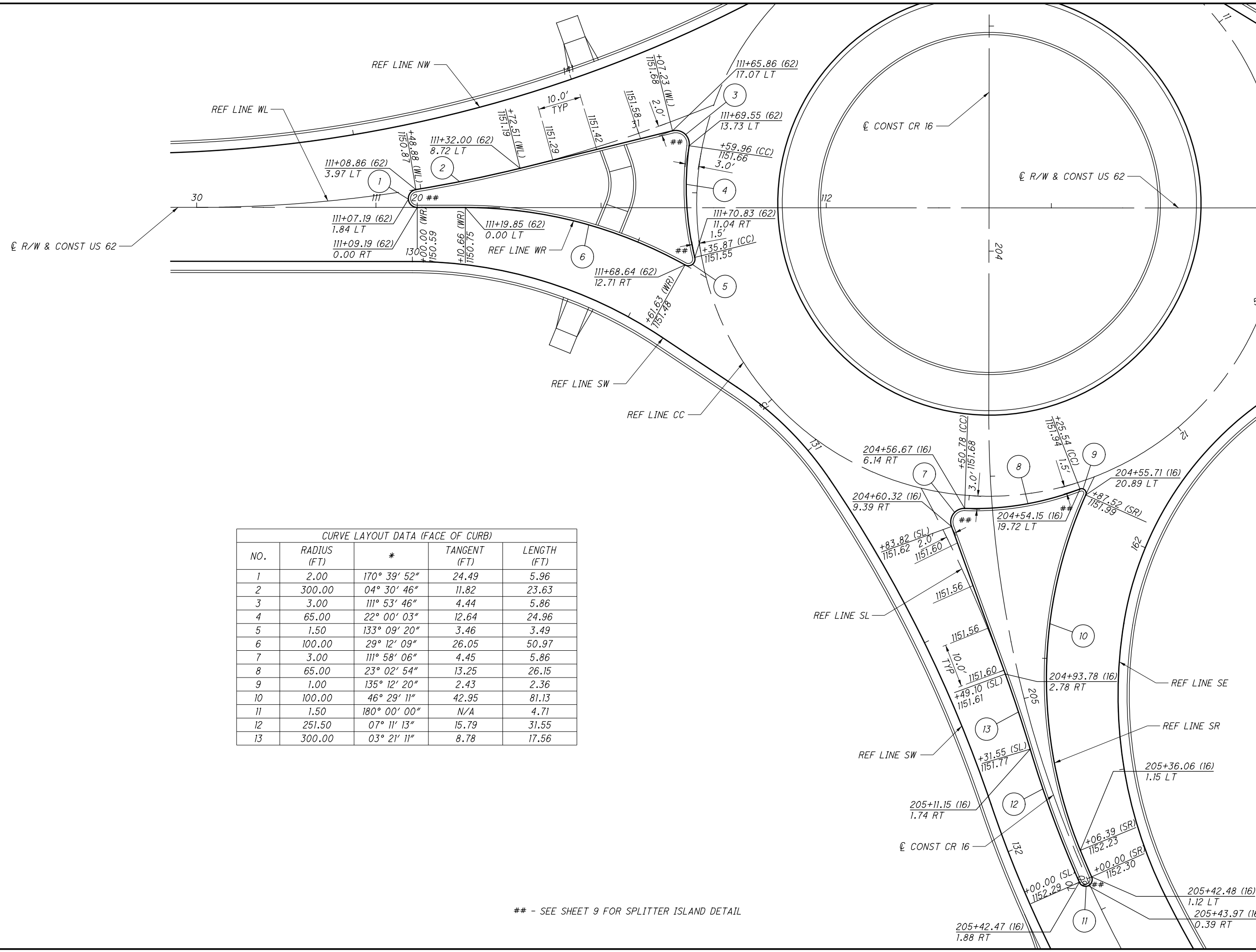
0 5 10 20  
HORIZONTAL SCALE IN FEET

CALCULATED MRO CHECKED NRV

ROUNDABOUT  
SPLITTER ISLAND DETAILS

LIC - CR16 - 0.007

35  
44



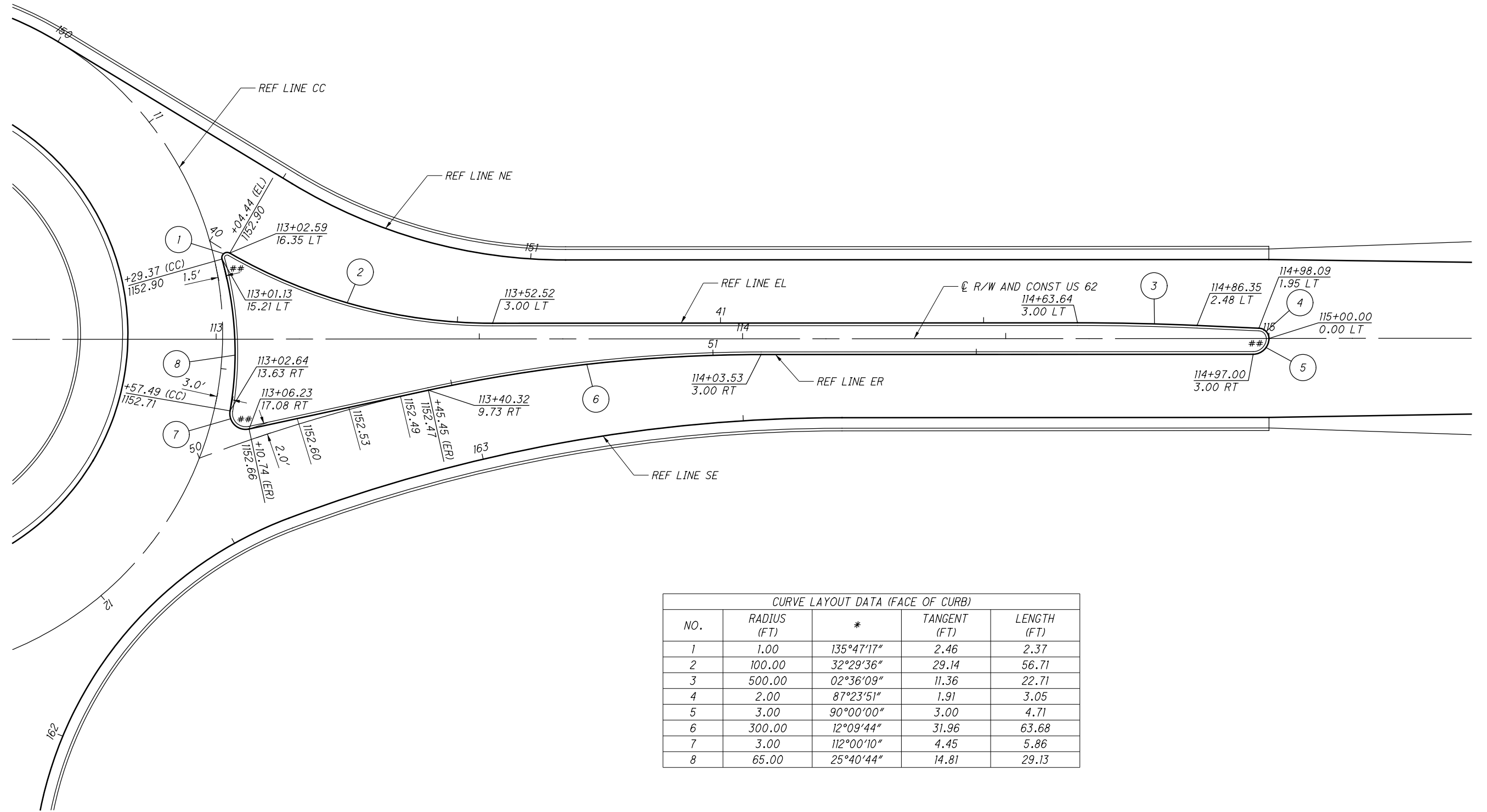
CURVE LAYOUT DATA (FACE OF CURB)

NO.	RADIUS (FT)	*	TANGENT (FT)	LENGTH (FT)
1	2.00	170° 39' 52"	24.49	5.96
2	300.00	04° 30' 46"	11.82	23.63
3	3.00	111° 53' 46"	4.44	5.86
4	65.00	22° 00' 03"	12.64	24.96
5	1.50	133° 09' 20"	3.46	3.49
6	100.00	29° 12' 09"	26.05	50.97
7	3.00	111° 58' 06"	4.45	5.86
8	65.00	23° 02' 54"	13.25	26.15
9	1.00	135° 12' 20"	2.43	2.36
10	100.00	46° 29' 11"	42.95	81.13
11	1.50	180° 00' 00"	N/A	4.71
12	251.50	07° 11' 13"	15.79	31.55
13	300.00	03° 21' 11"	8.78	17.56

## - SEE SHEET 9 FOR SPLITTER ISLAND DETAIL

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## - SEE SHEET 9 FOR SPLITTER ISLAND DETAIL



CURVE LAYOUT DATA (FACE OF CURB)

NO.	RADIUS (FT)	*	TANGENT (FT)	LENGTH (FT)
1	1.00	135°47'17"	2.46	2.37
2	100.00	32°29'36"	29.14	56.71
3	500.00	02°36'09"	11.36	22.71
4	2.00	87°23'51"	1.91	3.05
5	3.00	90°00'00"	3.00	4.71
6	300.00	12°09'44"	31.96	63.68
7	3.00	112°00'10"	4.45	5.86
8	65.00	25°40'44"	14.81	29.13

CALCULATED MRO CHECKED NRV

0 5 10 20  
HORIZONTAL SCALE IN FEET

**ROUNDABOUT  
SPLITTER ISLAND DETAILS**

**LIC - CR16 - 0.007**

ALL STATIONS REFERENCE US 62 UNLESS STATED OTHERWISE.

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**SIGNING, MISC: SOLAR POWERED LED ENHANCED SIGN**

IN ADDITION TO THE REQUIREMENTS OF ITEM 630 - SIGN, FLAT SHEET, AS PER PLAN, THIS SPECIFICATION DESCRIBES THE MINIMUM ACCEPTABLE DESIGN AND PERFORMANCE REQUIREMENTS FOR LED ENHANCED SIGNS. THE SIGN SHALL BE SELF-POWERED BY SOLAR PANELS AND BATTERIES WITH NO EXTERNAL ELECTRICAL POWER INSTALLATION. THE LED ENHANCED SIGN SHALL BE MUTCD COMPLIANT. THE FOLLOWING CRITERIA SHALL BE MET:

1. THE NEW UNIT SHALL ATTACH SECURELY TO THE PROPOSED SIGN SUPPORT USING A TAMPER RESISTANT FASTENING SYSTEM. SPECIAL TOOLS NEEDED FOR THE TAMPER RESISTANT FASTENING SYSTEM SHALL BE SUPPLIED WITH EACH SIGN.
2. EACH SIGN UNIT SHALL BE IDENTIFIED WITH THE MANUFACTURER'S NAME, DATE OF MANUFACTURE, AND SERIAL NUMBER ON THE BACK SIDE.
3. THE SIGN UNIT SHALL BE VISIBLE AT A MINIMUM OF 1/4 MI. DURING ALL CONDITIONS.
4. THE SIGN UNIT SHALL INCORPORATE CIRCUITRY AND A PHOTOCCELL TO ENSURE THAT IS HAS BRIGHTNESS ADJUSTMENT DURING DAY, DUSK, AND AT NIGHT.
5. THE LENS OF THE LED UNIT SHALL BE CAPABLE OF WITHSTANDING ULTRAVIOLET LIGHT (DIRECT SUNLIGHT) EXPOSURE FOR A MINIMUM TIME PERIOD OF FIVE YEARS WITHOUT EXHIBITING EVIDENCE OF DETERIORATION.
6. THE LENSES SHALL WITHSTAND A 3 FOOT DROP TEST ONTO A HARD SURFACE AND SHALL BE A MINIMUM OF 1/4 INCH THICK AND FREE OF BUBBLES AND IMPERFECTIONS. THE LENSES SHALL BE SMOOTH ON THE OUTSIDE, WITH NO EXTERNAL FACETS TO PREVENT DIRT AND DEBRIS BUILD-UP.
7. IF LENSES ARE TINTED, THEY SHALL MATCH THE WAVELENGTH (CHROMATICITY) OF THE LED.
8. THE INDIVIDUAL LED LIGHT SOURCES SHALL BE WIRED SO THAT A CATASTROPHIC FAILURE OF ONE LED LIGHT SOURCE WILL NOT RESULT IN THE LOSS OF MORE THAN ONE LED LIGHT SOURCE IN THE SIGN UNIT.
9. LED UNITS AND ASSOCIATED ON-BOARD CIRCUITRY SHALL CONFORM TO THE REQUIREMENTS IN FEDERAL COMMUNICATIONS COMMISSION (FCC) TITLE 47, SUB PART B, SECTION 15 REGULATIONS CONCERNING THE EMISSION OF ELECTRONIC NOISE.
10. LED'S SHALL BE RATED FOR USE IN THE AMBIENT OPERATING TEMPERATURE RANGE OF -40°F TO +166°F. (= -40°C TO +74°C)
11. THE LED'S WIRING SHALL BE SEALED WATERTIGHT TO ELIMINATE DIRT CONTAMINATION AND ALLOW FOR SAFE HANDLING IN ALL WEATHER CONDITIONS. THE LED'S SHALL BE SEALED AGAINST DUST AND MOISTURE INTRUSION AS PER THE REQUIREMENTS OF NEMA STANDARD 250-1991 FOR TYPE 4 ENCLOSURES AND TO PROTECT ALL INTERNAL LED AND ELECTRICAL COMPONENTS.
12. THE SIGN LED'S SHALL DISPLAY A MINIMUM OF 500,000 MCD FOR DAYTIME VISIBILITY.

**SOLAR REQUIREMENTS -**

SEE "GENERAL ELECTRICAL REQUIREMENTS FOR SOLAR-POWERED DEVICES".

**REQUIRED DOCUMENTATION -**

EACH SIGN UNIT SHALL BE PROVIDED WITH THE FOLLOWING DOCUMENTATION EITHER IN HARD COPY OR AS A PDF.

1. ONE SCHEMATIC DIAGRAM SHALL BE PROVIDED FOR THE SIGN UNIT ALONG WITH ANY NECESSARY INSTALLATION INSTRUCTIONS.
2. THE LED MANUFACTURERS NAME, BRAND, AND MODEL NUMBER.

**WARRANTY -**

1. THE LED ENHANCED SIGN UNIT SHALL BE REPAIRED OR REPLACED BY THE MANUFACTURER IF IT EXHIBITS A FAILURE DUE TO WORKMANSHIP OR MATERIAL DEFECTS WITHIN 2 YEARS OF FIELD OPERATION.
2. THE MANUFACTURER SHALL PROVIDE A WRITTEN WARRANTY AGAINST DEFECTS IN MATERIALS, WORKMANSHIP, AND LUMINOUS INTENSITY FOR THE LED ENHANCED SIGN UNIT FOR A PERIOD OF 2 YEARS AFTER INSTALLATION. A REPLACEMENT LED ENHANCED SIGN UNIT SHALL BE PROVIDED WITHIN 10 DAYS AFTER RECEIPT OF FAILED UNIT AT NO COST, EXCEPT THE COST OF SHIPPING THE FAILED UNIT.

**PAYMENT -**

PAYMENT FOR ITEM 630 - SIGNING MISC., SOLAR POWERED LED ENHANCED SIGN SHALL BE MADE AT THE CONTRACT BID PRICE, EACH, COMPLETELY INSTALLED IN PLACE AND FULLY FUNCTIONAL INCLUDING ALL MATERIAL, LABOR, AND EQUIPMENT REQUIRED TO FURNISH THE SIGN WITH SOLAR POWERED LED'S AND MOUNT THE SOLAR UNIT TO THE SIGN SUPPORT AS PER THE LED ENHANCED SIGN DETAIL.

**GENERAL ELECTRICAL REQUIREMENTS FOR SOLAR-POWERED DEVICES**

RUN REQUIREMENTS OF THIS DEVICE ARE 24 HOURS PER DAY, 7 DAYS PER WEEK.

UTILIZE ENVIRONMENTALLY-SEALED, HIGH-EFFICIENCY LED LIGHT SOURCES FOR THIS SOLAR-POWERED APPLICATION.

HOUSE THE SOLAR POWER SUPPLY CONTROLLER AND BATTERY IN ONE OR TWO STAINLESS STEEL OR ALUMINUM ENCLOSURES WITH A MINIMUM NEMA 3 OR 3X RATING.

IF THE EXTERIOR SIZE OF THE ENCLOSURE NECESSARY TO MEET THE REQUIREMENTS BELOW IS LESS THAN 1000 CUBIC INCHES, A SINGLE POLYMER ENCLOSURE RATED NEMA 4 AND LISTED AS SUNLIGHT-RESISTANT MAY BE INSTALLED, WITH APPROVAL OF THE ENGINEER.

SEAL ENCLOSURE CONDUIT ENTRIES TO PREVENT INSECT AND/OR RODENT ENTRY.

PROVIDE METAL ENCLOSURES WITH AN EXTERIOR OF BARE OR POWDER-COATED ALUMINUM, OR STAINLESS STEEL.

PROVIDE A LOCKING ENCLOSURE USING EITHER AN INTEGRATED LOCKING MECHANISM OR A PADLOCK PER C&MS 631.06.

SMALL ENCLOSURES OF 300 CUBIC INCHES OR LESS (EXTERIOR) MAY BE PROVIDED WITH SECURITY FASTENERS IN LIEU OF A LOCKING MECHANISM OR PADLOCK.

SEPARATE THE CONTROL ELECTRONICS AND BATTERY, IF CONTAINED WITHIN A SINGLE ENCLOSURE, TO PREVENT DAMAGE TO THE CONTROL ELECTRONICS IF THE BATTERY ENVELOPE IS COMPROMISED.

PROVIDE SEALED GEL-CELL OR AGM (ABSORBED GLASS MAT) LEAD-ACID BATTERIES FOR ALL INSTALLATIONS WITH INSTANTANEOUS LOAD REQUIREMENTS OF 4 WATTS OR ABOVE, REGARDLESS OF DUTY CYCLE.

FOR INSTALLATIONS WITH INSTANTANEOUS LOAD REQUIREMENTS OF LESS THAN 4 WATTS, RECHARGEABLE NIO, LI-ION, OR NIMH BATTERIES MAY BE USED INSTEAD OF AGM OR GEL-CELL, IF APPROVED BY THE ENGINEER.

PROVIDE SIGNED COPIES FROM THE SOLAR PANEL AND/OR CONTROLLER MANUFACTURER OF ALL CALCULATIONS USED TO SIZE THE SOLAR PANEL AND BATTERIES.

INCLUDE IN THESE CALCULATIONS THE INSOLATION VALUE USED AND ITS REFERENCE SOURCE, THE SOLAR PANEL EFFICIENCY, CHARGER/CONTROLLER EFFICIENCY, INVERTER EFFICIENCY, PROPOSED LED LAMP AND/OR EQUIPMENT LOAD, AND A FIGURE REPRESENTING ANTICIPATED MISCELLANEOUS LOSSES.

SHOW CALCULATIONS DOCUMENTING A RESERVE CAPACITY OF TWO WEEKS OPERATION UNDER CONTINUOUS WORST-CASE (MINIMUM) INSOLATION FIGURES (USUALLY DECEMBER) FOR THE PROPOSED GEOGRAPHIC LOCATION, USING A PANEL ELEVATION ANGLE APPROPRIATE TO THE SITE, AT A SUSTAINED TEMPERATURE OF 25 DEGREES FAHRENHEIT (-4 DEGREES CELSIUS).

DELIVER A COPY OF THE CALCULATIONS TO THE ENGINEER AND ANOTHER COPY TO THE OFFICE OF ROADWAY ENGINEERING FOR APPROVAL.

PROVIDE DOCUMENTATION SHOWING THAT THE SOLAR PANEL MANUFACTURER TESTED THE PANEL ACCORDING TO IEC61215 OR EQUIVALENT APPROVED STANDARD.

PROVIDE DOCUMENTATION SHOWING THAT SOLAR PANEL MOUNTING IS RATED FOR 90 MPH DESIGN WIND AND DESIGNED TO RESIST VANDALISM.

ENSURE NEC GROUNDING AND BONDING REQUIREMENTS ARE MET IF VOLTAGES OVER 50V AC OR DC ARE PRESENT.

PROVIDE A TIMER (IF REQUIRED) THAT SATISFIES THE REQUIREMENTS OF C&MS 731.10 AND IS LISTED ON THE ODOT QUALIFIED PRODUCTS LIST.

PROVIDE COMPLETE PHOTO-CONTROLLER SPECIFICATIONS, INCLUDING ON/OFF PHOTOMETRIC SWITCH POINTS (TYPICALLY GIVEN IN FOOT-CANDLES), IF A PHOTO-CONTROLLER IS UTILIZED.

**ITEM 630 - GROUND-MOUNTED SUPPORT, NO. 3 POST, AS PER PLAN**

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, ITEM 630 - GROUND-MOUNTED SUPPORT, NO. 3 POST, AS PER PLAN SHALL UTILIZE A 2" SQUARE, BLACK POWDER COATED SUPPORT SYSTEM FROM DECKER SUPPLY, OR APPROVED EQUAL. THE POSTS SHALL FEATURE A KNOCKOUT QWIK-PUNCH CONSTRUCTION WHEREIN THE POSTS ARE MADE WITH 7/16" KNOCKOUTS, 1" ON THE CENTER, ON ALL FOUR SIDES. THE CITY OF GREEN WILL NOT ACCEPT ANY POSTS WHICH ARRIVE HAVING BEEN PRE-DRILLED OR GALVANIZED.

THE COST OF ALL LABOR, MATERIALS AND EQUIPMENT ASSOCIATED WITH THIS ITEM SHALL BE INCLUDED IN THE SQUARE FOOT PRICE FOR ITEM 630 - GROUND-MOUNTED SUPPORT, NO. 3 POST, AS PER PLAN

**ITEM 630 - SIGN, FLAT SHEET, AS PER PLAN**

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, ITEM 630 - SIGN, FLAT SHEET, AS PER PLAN SHALL ALSO INCLUDE COVERING THE REVERSE SIDE OF EACH SIGN WITH BLACK VINYL SHEETING. THIS SHEETING SHALL BE "SIGNBACKER" AS MANUFACTURED BY TAPCO OR APPROVED EQUAL.

THE COST OF ALL LABOR, MATERIALS AND EQUIPMENT ASSOCIATED WITH THIS ITEM SHALL BE INCLUDED IN THE SQUARE FOOT PRICE FOR ITEM 630 - SIGN, FLAT SHEET, AS PER PLAN.

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CALCULATED  
MRO  
CHECKED  
NRY

TRAFFIC CONTROL NOTES

LIC - CR16 - 0.007

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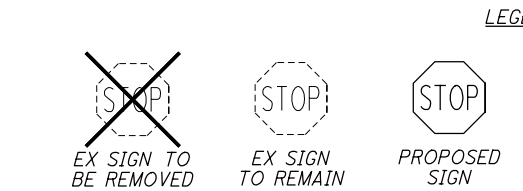
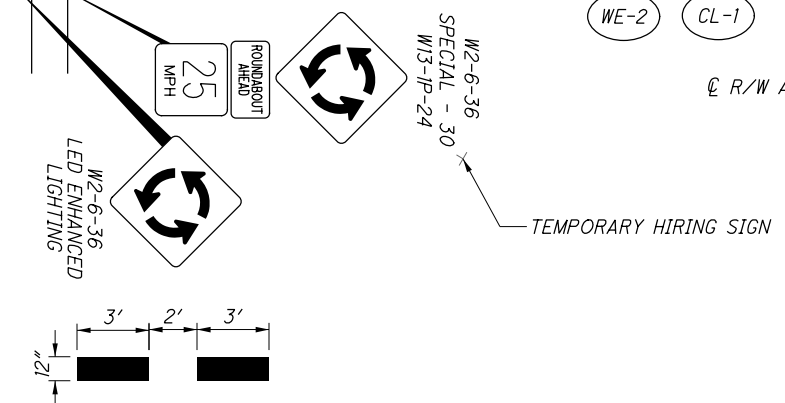
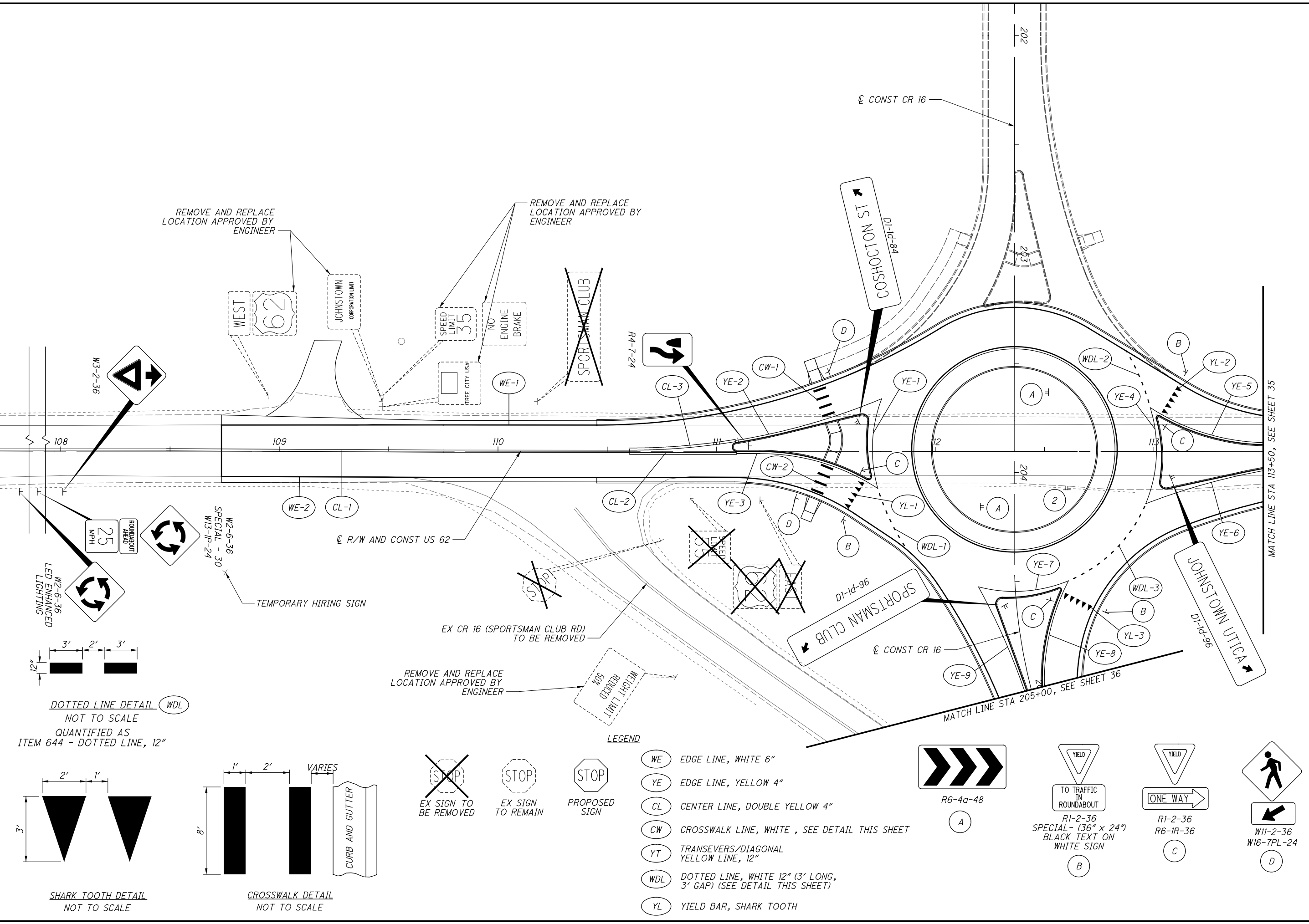
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CALCULATED  
MRO  
CHECKED  
NRV

0 20 40  
10  
HORIZONTAL  
SCALE IN FEET

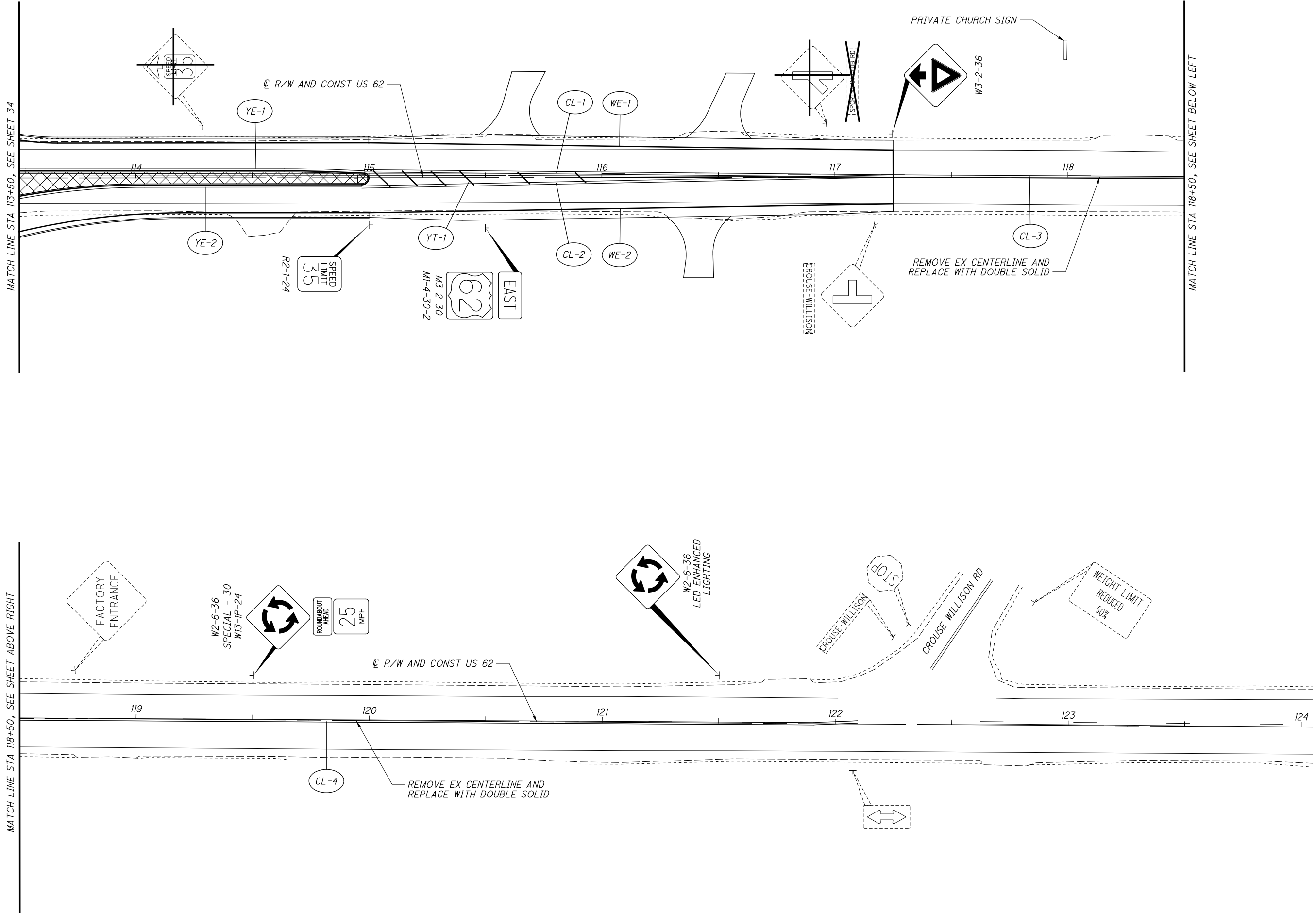
**SIGNING AND PAVEMENT MARKING PLAN  
US 62 AND ROUNDABOUT**

**LIC-CR16-0.007**



- LEGEND**
- (WE) EDGE LINE, WHITE 6"
  - (YE) EDGE LINE, YELLOW 4"
  - (CL) CENTER LINE, DOUBLE YELLOW 4"
  - (CW) CROSSWALK LINE, WHITE, SEE DETAIL THIS SHEET
  - (YT) TRANSVERSERS/DIAGONAL YELLOW LINE, 12"
  - (WDL) DOTTED LINE, WHITE 12" (3' LONG, 3' GAP) (SEE DETAIL THIS SHEET)
  - (YL) YIELD BAR, SHARK TOOTH

- (A) R6-4a-48
- (B) R1-2-36 SPECIAL - (36" x 24") BLACK TEXT ON WHITE SIGN
- (C) R1-2-36 R6-1R-36
- (D) W11-2-36 W16-7PL-24



MATCH LINE STA 113+50, SEE SHEET 34

MATCH LINE STA 118+50, SEE SHEET ABOVE RIGHT

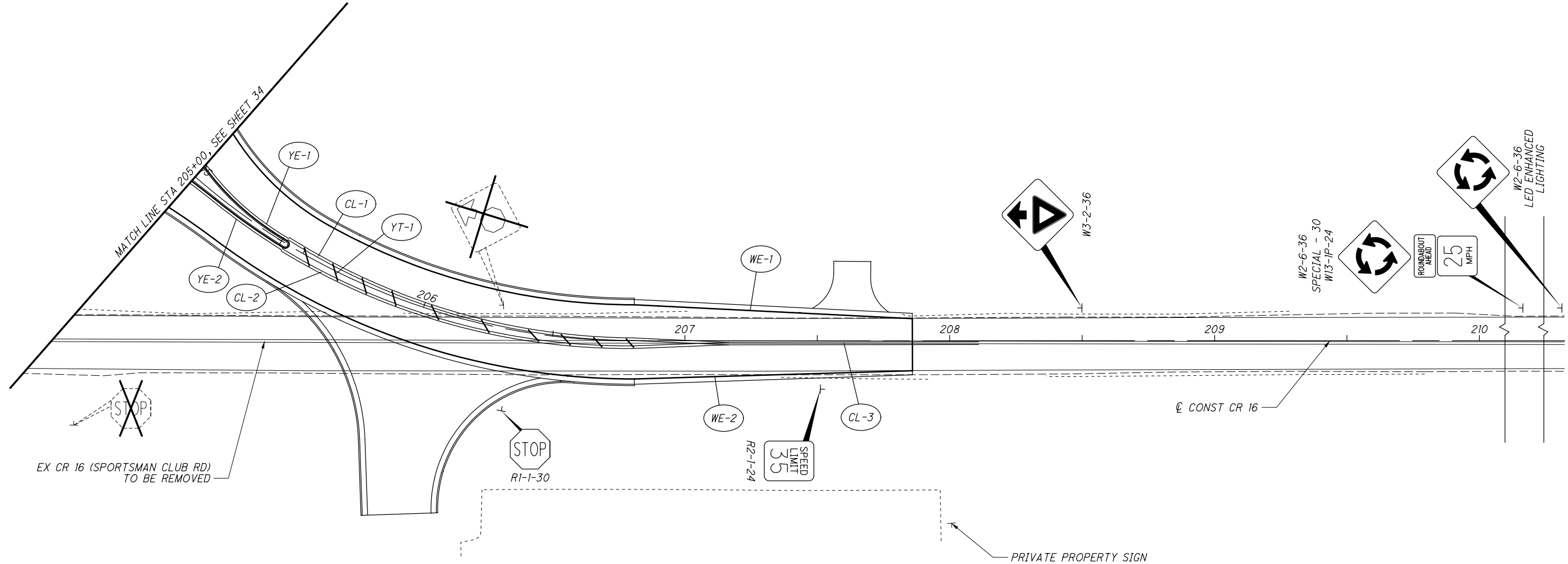
MATCH LINE STA 118+50, SEE SHEET BELOW LEFT

CALCULATED MRO CHECKED NRV

0 20 40  
10  
HORIZONTAL SCALE IN FEET

# SIGNING AND PAVEMENT MARKING PLAN US 62

LIC - CR16 - 0.007



CALCULATED MRO CHECKED NRV

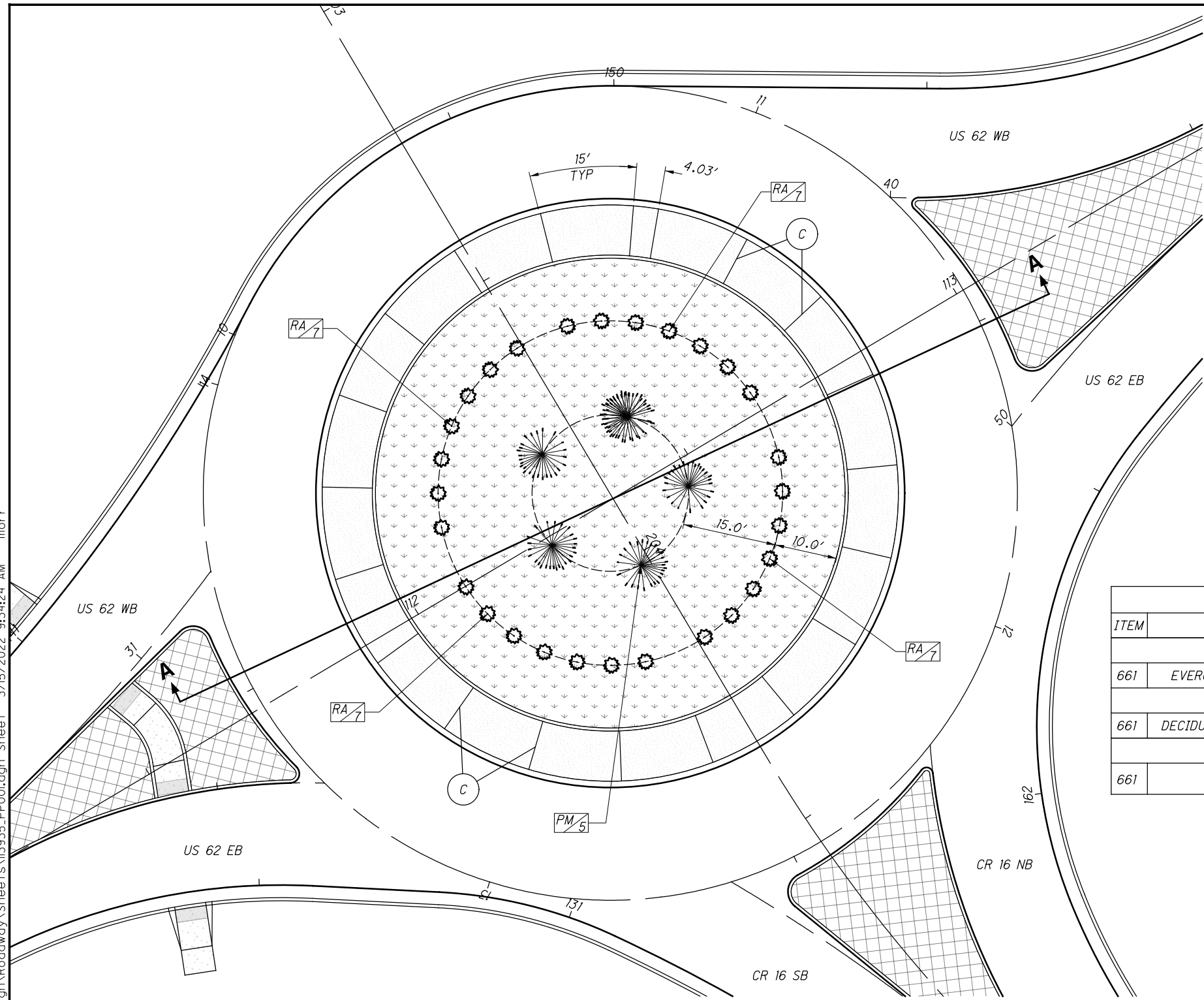
0 20 40  
HORIZONTAL SCALE IN FEET

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**SIGNING AND PAVEMENT MARKING PLAN**  
**CR 16**

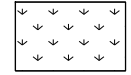




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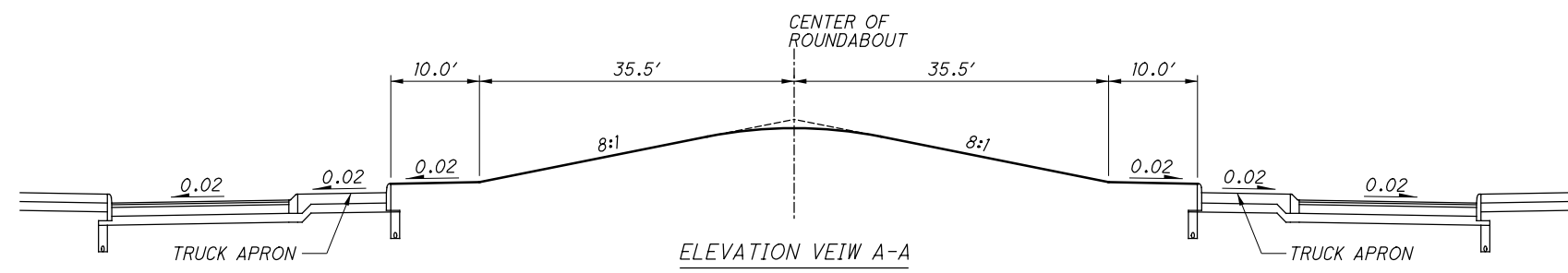
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PLANTING SCHEDULE						
ITEM	DESCRIPTION	KEY	QTY	BOTANICAL NAME	COMMON NAME	PLANTING SIZE
<b>TREES</b>						
661	EVERGREEN TREE, 2' HEIGHT	PM	5	PINUS MUGO	MUGO PINE	5 GAL
<b>SHRUBS</b>						
661	DECIDUOUS SHRUB, 12" HEIGHT	RA	28	RHUS AROMATICA	FRAGRANT SUMAC	3 GAL
<b>MULCH</b>						
661	MULCH		-- CY	SHREDDED HARDWOOD BARK MULCH	MULCH	

**LEGEND**

-  - ITEM 657 - RIPRAP FOR TREE PROTECTION, AS PER PLAN
-  - ITEM 204 - GEOTEXTILE FABRIC
-  - ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT, MISC.: 8" TRUCK APRON STAINED
-  - ITEM 609 - 6" CONCRETE TRAFFIC ISLAND, AS PER PLAN, TOOLED AND STAINED
-  - CONTRACTION JOINT AS PER BP-2.2



ITEM	DESCRIPTION	QTY
204	GEOTEXTILE FABRIC	--- SY
657	RIPRAP FOR TREE PROTECTION, AS PER PLAN	--- SY

CALCULATED MRO CHECKED NRV

0 5 10 15 20  
HORIZONTAL SCALE IN FEET

**LANDSCAPE PLAN AND PAVEMENT JOIN DETAIL - ROUNDABOUT**

**LIC-CR16-0.007**