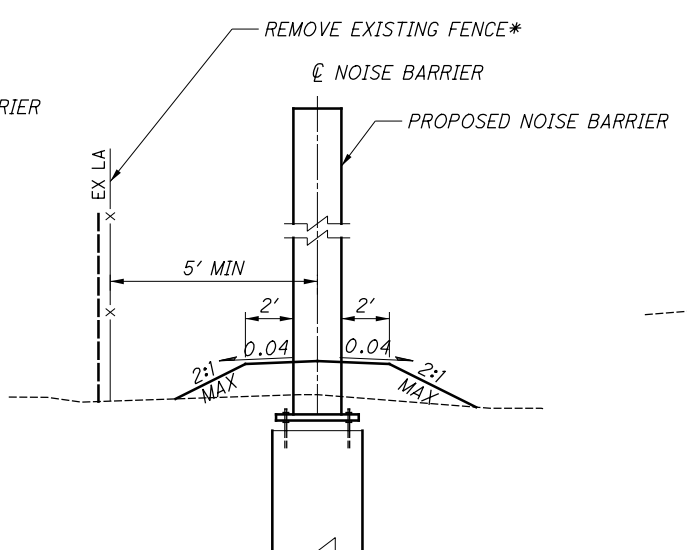


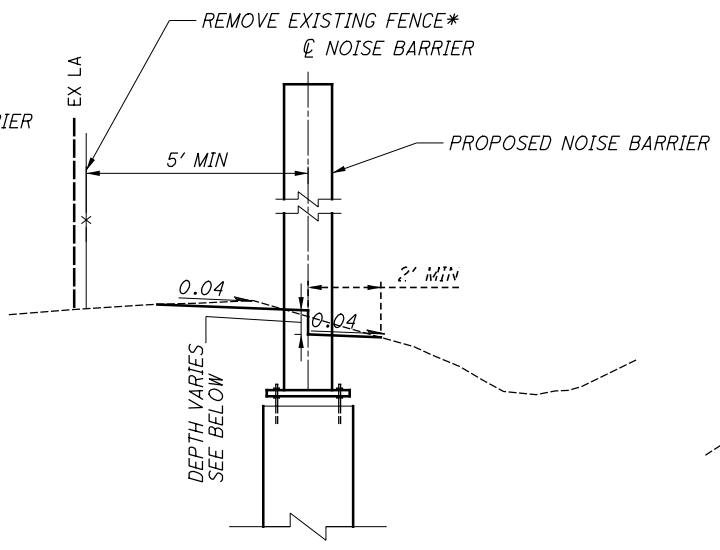
- |  |  |
|--|--|
| GLASGOW BARRIER 1:<br>STA. 100+75 TO STA. 104+75<br>STA. 107+25 TO STA. 112+25 | CUSHMAN BARRIER 1:<br>STA. 200+44 TO STA. 200+75<br>STA. 201+25 TO STA. 201+75<br>STA. 202+25 TO STA. 203+25<br>STA. 204+75 TO STA. 219+25<br>STA. 220+25 TO STA. 221+25 |
| GLASGOW BARRIER 3:<br>STA. 150+00 TO STA. 151+32                               | VALLEY PARK BARRIER:<br>STA. 809+48 TO STA. 814+04   |
| GLASGOW BARRIER 1:<br>STA. 100+24 TO STA. 100+75<br>STA. 112+25 TO STA. 119+36 | SYLVAN GREEN 2:<br>STA. 999+84 TO STA. 1001+64   |

**NOISE BARRIER  
CUT SECTION AT R/W**



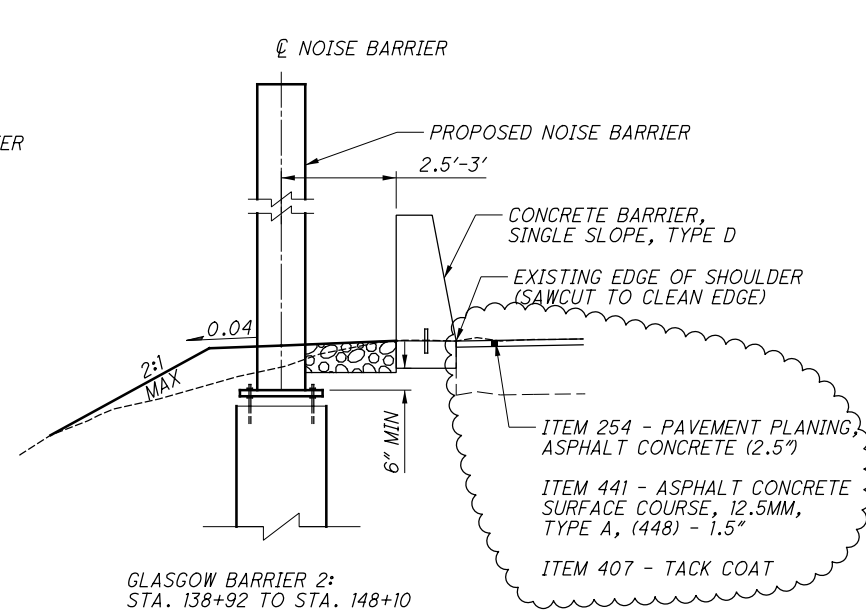
- |  |   |
|--|---|
| CUSHMAN BARRIER 1:<br>STA. 219+25 TO STA. 220+25<br>STA. 221+25 TO STA. 223+56 | DEVON HILL BARRIER:<br>STA. 898+80 TO STA. 906+96 |
| GLASGOW BARRIER 1:<br>STA. 100+24 TO STA. 100+75<br>STA. 112+25 TO STA. 119+36 |   |

**NOISE BARRIER  
FILL SECTION AT R/W**



- |   |   |
|---|---|
| GLASGOW BARRIER 1:<br>STA. 104+75 TO STA. 107+25 (1' DEPTH) | CUSHMAN BARRIER 1:<br>STA. 200+75 TO STA. 201+25 (1' DEPTH)<br>STA. 201+75 TO STA. 202+25 (0.5' DEPTH)<br>STA. 203+25 TO STA. 204+75 (1' DEPTH) |
|---|---|

**NOISE BARRIER  
EARTH RETAINING SECTION AT R/W**

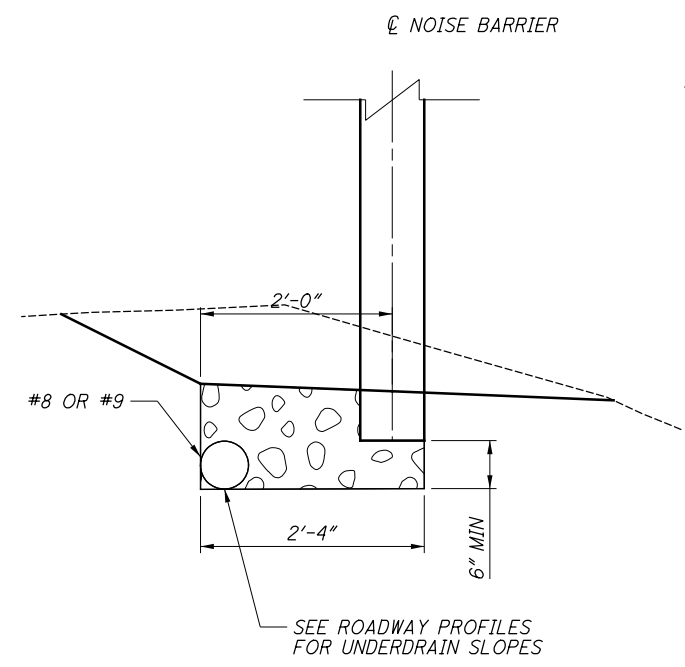


- |  |  |
|--|--|
| GLASGOW BARRIER 2:<br>STA. 138+92 TO STA. 148+10 | GLASGOW BARRIER 4:<br>STA. 166+75 TO STA. 167+66 |
| CUSHMAN BARRIER 2:<br>STA. 232+44 TO STA. 248+66 |  |

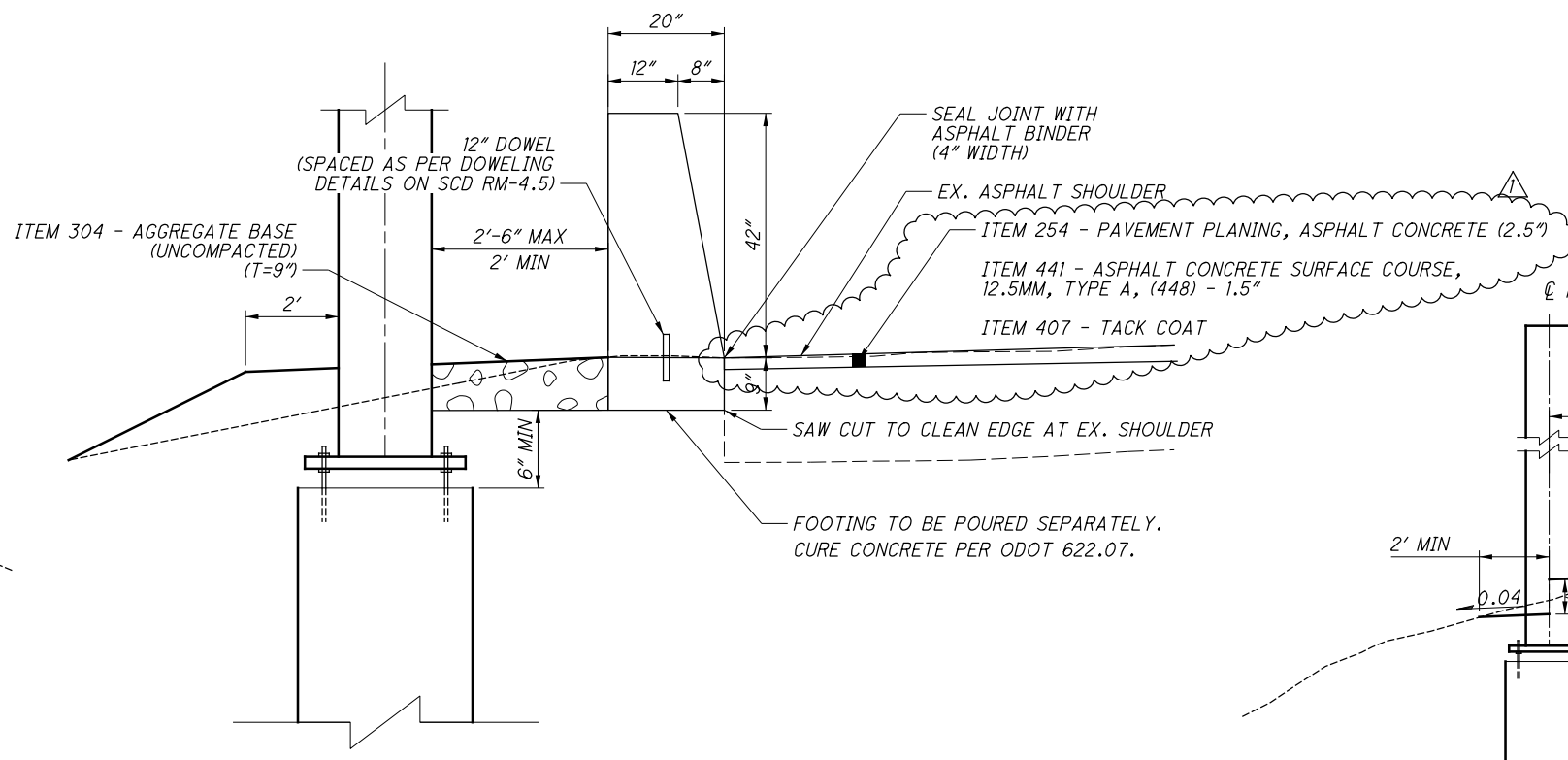
**NOISE BARRIER  
ALONG EXISTING SHOULDER  
WITH NEW CONCRETE BARRIER**

- CONCRETE BARRIER, SINGLE SLOPE, TYPE D
- EXISTING EDGE OF SHOULDER (SAWCUT TO CLEAN EDGE)
- ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (2.5")
- ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A, (448) - 1.5"
- ITEM 407 - TACK COAT

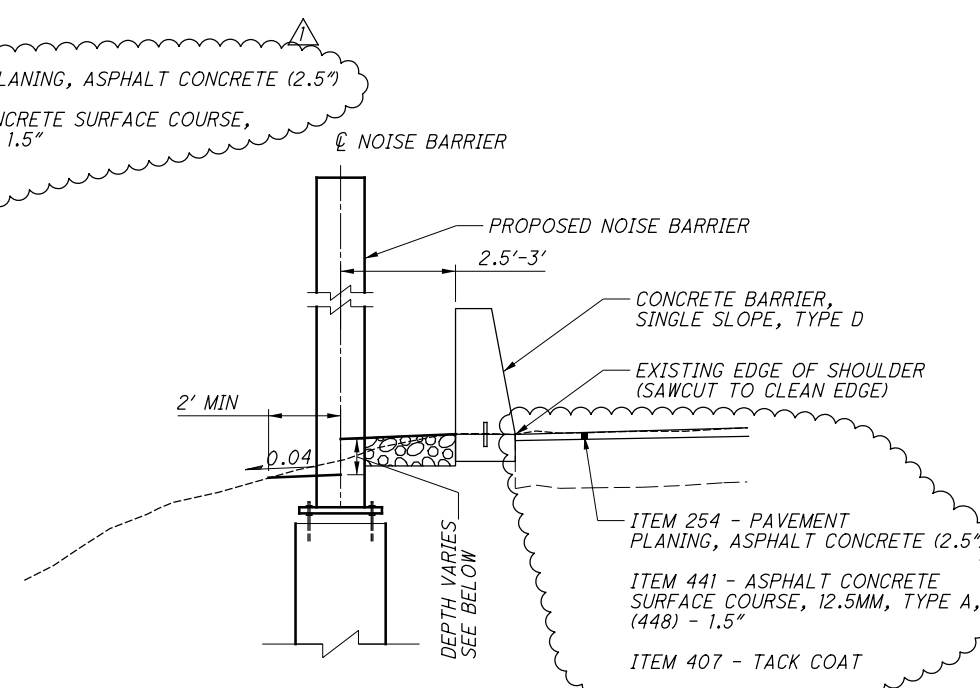
\* SEE TEMPORARY CONSTRUCTION FENCE NOTE ON SHEET 16



**UNDERDRAIN DETAIL**



**CONCRETE BARRIER DETAIL**



**NOISE BARRIER ALONG EXISTING SHOULDER  
WITH NEW CONCRETE BARRIER (EARTH RETAINING SECTION)**

- |   |
|---|
| GLASGOW BARRIER 4:<br>STA. 160+16 TO STA. 166+75 (1' DEPTH) |
|---|

P:\103647\_LUC23\_NOISEWALL\LUC23-11.89\Design\Roadway\Sheets\106931\_GY001.dgn Sheet 8/22/2022 11:22:22 AM mcorneff

**UTILITIES**

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

AT&T - OHIO  
130 N. ERIE STREET, ROOM 705  
TOLEDO, OHIO 43604  
ATTN: ROB FEY  
PHONE: 419-245-5004  
EMAIL: RF1281@ATT.COM

AT&T - LONG DISTANCE  
155 COMMERCE PARK DRIVE, SUITE 1  
WESTERVILLE, OHIO 43082  
ATTN: CHAD HARKNESS  
PHONE: 770-584-7083  
EMAIL: CHAD.HARKNESS@MCGFIBER.COM

BUCKEYE BROADBAND  
2700 OREGON ROAD  
NORTHWOOD, OHIO 43619  
ATTN: MICHAEL SHEAHAN  
PHONE: 419-724-3713  
EMAIL: MSHEAHAN@SHAREDSVCS.COM

CHARTER COMMUNICATIONS  
1575 LEXINGTON AVE  
MANSFIELD, OHIO 44907  
ATTN: SEAN MILLER  
PHONE: 419-295-3947  
EMAIL: SEAN.MILLER1@CHARTER.COM

CITY OF SYLVANIA  
6730 MONROE STREET, SUITE 101  
SYLVANIA, OHIO 43260  
ATTN: JOE SHAW  
PHONE: 419-885-8967  
EMAIL: JSHAW@CITYOFSYLVANIA.COM

CITY OF TOLEDO (WATER)  
401 SOUTH ERIE STREET  
TOLEDO, OHIO 43604  
ATTN: BENJAMIN KRALL  
PHONE: 419-245-1349  
EMAIL: BENJAMIN.KRALL@TOLEDO.OH.GOV

COLUMBIA GAS OF OHIO  
2901 EAST MANHATTEN BOULEVARD  
TOLEDO, OHIO 43611  
ATTN: JOHN SONCRANT  
PHONE: 419-539-6070  
EMAIL: JSONCRANT@NISOURCE.COM

FIRST ENEGRY  
76 SOUTH MAIN STREET  
AKRON, OHIO 44308  
ATTN: ALAN SCHEMP  
PHONE: 330-384-5489  
EMAIL: ASCHEMP@FIRSTENERGYCORP.COM

FRONTIER COMMUNICATION  
3126 MCCORD ROAD  
TOLEDO, OHIO 43617  
ATTN: AMY ROTH  
PHONE: 419-841-7281  
EMAIL: AMY.I.ROTH@FTR.COM

LUCAS COUNTY ENGINEERS (SANITARY)  
1111 SOUTH MCCORD ROAD  
HOLLAND, OHIO 43528  
ATTN: NATE INKROTT  
PHONE: 419-213-2926  
EMAIL: NINKROTT@CO.LUCAS.OH

LUCAS COUNTY ENGINEERS  
1111 SOUTH MCCORD ROAD  
HOLLAND, OHIO 43528  
ATTN: MICHAEL PNIEWSKI  
PHONE: 419-219-2860

NORTHERN BUCKEYE EDUCATION COUNCIL  
209 NOLAN PARKWAY  
ARCHBOLD, OHIO 43502  
ATTN: JOE PRCHLIK  
PHONE: 419-267-1515  
EMAIL: PRCHLIK@NWOCA.ORG

ODOT DISTRICT 2 (TRAFFIC & ELECTRIC)  
317 EAST POE ROAD  
BOWLING GREEN, OHIO 43402  
ATTN: DYLAN FOUKES  
PHONE: 419-373-4303  
EMAIL: DYLAN.FOUKES@DOT.OHIO.GOV

SYLVANIA TOWNSHIP  
4927 NORTH HOLLAND-SYLVANIA ROAD  
SYLVANIA, OHIO  
ATTN: ROB NASH  
PHONE: 419-882-0031  
EMAIL: RNASH@SYLVANIATOWNSHIP.COM

TOLEDO EDISON  
6099 ANGOLA ROAD  
HOLLAND, OHIO 43528  
ATTN: RANDY SWOPE  
PHONE: 419-249-5218

TRAFFIC MONITORING SECTION (ODOT)  
1980 WEST BROAD STREET  
COLUMBUS, OHIO 43223  
ATTN: ED NEWMAYER  
PHONE: 614-204-0914

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.

**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.

**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.

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

THIS ITEM SHALL CONSIST OF INSTALLING GROUND MOUNTED NO. 3 POST WITH THE MINIMUM EMBEDMENT DEPTH OF 48". ADDITIONAL EMBEDMENT DEPTH IS INCLUDED IN THE PLAN QUANTITY PRICE FOR ITEM 630, GROUND MOUNTED NO. 3 POST, APP.

**SURVEYING PARAMETERS**

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 7 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

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

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88  
GEOID: GEOID12A

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011)  
MAP PROJECTION: LAMBERT CONIC CONFORMAL  
COORDINATE SYSTEM: OHIO STATE PLANE, NORTH

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

UNITS ARE IN U.S. SURVEY FEET.

**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 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. USE OF HIGH POWERED EQUIPMENT WILL BE LIMITED TO THE HOURS OF 8AM TO 9PM.

**PROTECTION OF RIGHT-OF-WAY LANDSCAPING**

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

CONSTRUCT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL, THE CONSTRUCTION LIMITS ARE IDENTIFIED AS 30 FEET FROM THE EDGE OF PAVEMENT.

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

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

**AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS**

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 69 FT. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT FORM 7460-1 TO THE FAA. NOTIFY THE ODOT OFFICE OF AVIATION WHEN SUBMITTING AN FAA FORM 7460-1.

NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

EXPRESS PROCESSING CENTER  
THE FEDERAL AVIATION ADMINISTRATION  
SOUTHWEST REGIONAL OFFICE  
AIR TRAFFIC AIRSPACE BRANCH ASW-520  
2601 MEACHAN BLVD.  
FORT WORTH, TX 76137-4298

OHIO DEPARTMENT OF TRANSPORTATION  
OFFICE OF AVIATION  
2829 WEST DUBLIN-GRANVILLE ROAD  
COLUMBUS, OHIO 43235  
614-387-2346

**ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E**

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

CALCULATED  
MUT  
CHECKED  
MJC

GENERAL NOTES

LUC-475 / 23-10.02 /  
11.14 NOISEWALL

15  
156

**SEEDING AND MULCHING**

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

- 659, SOIL ANALYSIS TEST, 2 EACH
- 659, TOPSOIL, 1486 CU. YD.
- 659, SEEDING AND MULCHING, 13385 SQ. YD.
- 659, REPAIR SEEDING AND MULCHING, 670 SQ. YD.
- 659, INTER-SEEDING, 670 SQ. YD.
- 659, COMMERCIAL FERTILIZER, 1.87 TON
- 659, LIME, 2.77 ACRES
- 659, WATER, 75 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.

**EARTHWORK**

BELOW IS A SUMMARY OF THE EARTHWORK/SEEDING FOR INDIVIDUAL NOISEWALL BARRIERS. SEE CROSS SECTIONS FOR ADDITIONAL INFORMATION:

	EXCAVATION	EMBANKMENT	SEEDING
GLASGOW BARRIER 1 =	116	100	2054
GLASGOW BARRIER 2 =	94	99	626
GLASGOW BARRIER 3 =	11	4	155
GLASGOW BARRIER 4 =	91	8	336
CUSHMAN BARRIER 1 =	191	77	2250
CUSHMAN BARRIER 2 =	121	626	2523
VALLEY PARK BARRIER =	119	61	1305
ADD FOR VALLEY PARK ACCESS ROAD			2200
DEVON HILL BARRIER =	2	97	771
SYLVAN GREEN BARRIER 2 =	8	13	275

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 203 - EXCAVATION	753 CY
ITEM 203 - EMBANKMENT	1085 CY

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE SEEDING AND MULCHING NOTE:

ITEM 659 - SEEDING AND MULCHING	12495 SY
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**ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN**

IN ADDITION TO THE SPECIFICATIONS OF ITEM 622 IN THE CMS AND ODOT SCD RM 4.5, THE CONCRETE BARRIER SHALL BE CONSTRUCTED PER THE CONCRETE BARRIER DETAIL SHOWN ON SHEET 13.

THIS ITEM WILL INCLUDE ALL MATERIALS LISTED IN THE CMS AND WILL INCLUDE ANY MATERIALS SPECIFIED ON SHEET 13 INCLUDING BUT NOT LIMITED TO THE FOOTING, ASPHALT BINDER, 12" DOWELS, AND 304 AGGREGATE BASE.

**ITEM SPECIAL MISC.: NOISE BARRIER - REFLECTIVE**

GENERAL

1. NOISE BARRIER PANELS, POSTS, AND CAPS SHALL BE CONCRETE.
2. NOISE BARRIER POSTS AND CAPS SHALL HAVE A SMOOTH FINISH.
3. ALL CONCRETE POSTS SHALL USE AN ODOT-APPROVED CONCRETE WATERPROOFING ADMIXTURE. NO EXTERIOR SEALER WILL BE USED ON THE POSTS
4. ALL POSTS SHALL HAVE A 3/4" RUSTICATION GROOVE NOT THE 1/2" GROOVE PER STANDARD CONSTRUCTION DRAWING NBS-1-09. THE RUSTICATION GROOVE SHALL MEET THE TOP OF THE HIGHEST ADJACENT PANEL.
5. ALL NOISE BARRIER PANELS SHALL BE REFLECTIVE ON BOTH SIDES.
6. ALL NOISE BARRIER PANELS, SHALL BE PAINTED ON BOTH SIDES THE FOLLOWING COLORS:

RESIDENTIAL SIDE:

GLASGOW WALLS - LIGHT GREY #595B-16515

~~CUSHMAN WALLS - LIGHT GREY #595B-16515~~

SYLVAN GREEN 2 WALL - LIGHT GREY #595B-16515

VALLEY PARK WALL - LIGHT GREY #595B-16515

DEVIN HILL WALLS - EARTH TONE #30450

HIGHWAY SIDE:

ALL WALLS EXCEPT DEVON HILL - LIGHT GREY #595B-16515

DEVIN HILL WALLS - EARTH TONE #30450

THE CONTRACTOR SHALL FIELD VERIFY THE COLOR OF THE EXISTING DEVIN HILL WALL IN THE PRESENCE OF THE ENGINEER AND ADJUST THE PROPOSED COLOR TO MATCH THE SURROUNDING WALLS PRIOR TO ORDERING MATERIAL.

7. NOISE BARRIER PANEL TEXTURES SHALL BE ON BOTH SIDES FOR THE FOLLOWING WALLS:

RESIDENTIAL SIDE:

GLASGOW WALLS - ASHLAR, POLYMER ID, 905 SMALL AGED ASHLAR.

CUSHMAN WALLS - DRY STACK, POLYMER ID, 9110 LARGE STONE OHIO DRY STACK.

VALLEY PARK WALL - ASHLAR, POLYMER ID, 905 SMALL AGED ASHLAR.

DEVIN HILL WALL - BROKEN RIBS, POLYMER ID, 211 SOUND ABSORPTIVE BROKEN 1' RIBS.

HIGHWAY SIDE:

ALL WALLS EXCEPT DEVIN HILL - ASHLAR, POLYMER ID, 905 SMALL AGED ASHLAR.

DEVIN HILL WALL - BROKEN RIBS, POLYMER ID, 211 SOUND ABSORPTIVE BROKEN 1' RIBS.

8. THE NOISE BARRIER SHOP DRAWING SUBMITTAL MUST INCLUDE THE ACOUSTICAL PROFILE AND LINE OF SIGHT SHOWN IN THESE PLANS ON EACH PROFILE VIEW.

9. FOR PANEL LENGTH DEDUCTIONS FOR NOISE BARRIERPOSTS SEE STANDARD CONSTRUCTION DRAWING NBS-1-09.

10. ALL NOISE WALLS SHALL HAVE A 1/4" FOAM BACKER ROD IN LIEU OF 3/4" FOAM BACKER ROD SHOWN ON PAGE 6/13 OF THE ODOT SCD NBS-1-09.

**ITEM SPECIAL MISC.: NOISE BARRIER - REFLECTIVE (CONT.)**

SAMPLE BARRIER PANEL

ONE SAMPLE OF A CONCRETE BARRIER PANEL AND POST WITH CAPS SHALL BE DELIVERED TO A LOCATION DESIGNATED BY THE ENGINEER FOR EVALUATION BY THE ENGINEER IN ACCORDANCE WITH THE ACCEPTANCE REQUIREMENTS OF THE NOISE BARRIER AS OUTLINED ON SHEET 2/13 IN THE STANDARD CONSTRUCTION DRAWING NBS-1-09.

SITE GRADING

THE CONTRACTOR SHALL PROVIDE THE FINISHED GRADES AS SHOWN IN THE PLANS. SPOILS GENERATED FROM THE DRILLED SHAFT CONSTRUCTION MAY BE WASTED ON SITE ONLY AS DIRECTED BY THE ENGINEER.

PAYMENT

IN ADDITION TO THE REQUIREMENTS OF STANDARD CONSTRUCTION DRAWING NBS-1-09, ALL OF THE ABOVE REQUIREMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM SPECIAL - NOISE BARRIER (REFLECTIVE).

**TEMPORARY CONSTRUCTION FENCE**

EXISTING RIGHT OF WAY FENCE SHOULD BE LEFT IN PLACE UNTIL NOISEWALL CONSTRUCTION IS COMPLETE WHENEVER POSSIBLE. SHOULD THE CONTRACTOR NEED TO REMOVE THE EXISTING FENCE PRIOR TO THE CONSTRUCTION OF THE NOISEWALLS, A TEMPORARY CONSTRUCTION FENCE SHOULD BE ERECTED PRIOR TO THE REMOVAL OF THE EXISTING RIGHT OF WAY FENCE.

THE FOLLOWING CONTINGENCY QUANTITY HAS BEEN INCLUDED IN THE PLANS TO BE USED AS DIRECTED BY THE ENGINEER:

ITEM 607 - FENCE, MISC.: TEMPORARY FENCE - 750'

**ENDANGERED BAT HABITAT REMOVAL**

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

**PROTECTION OF SURVEYING MONUMENTS**

THE DEPARTMENT IS PRESENTLY SURVEYING FOR A FUTURE PROJECT ALONG I.R. 475 WHICH INCLUDES INSTALLING SURVEY CONTROL WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL NOT DISTURB EXISTING SURVEYING MARKERS. ANY IMPACTS SHALL BE CORRECTED TO THE DEPARTMENTS SATISFACTION AT THE CONTRACTOR'S EXPENSE.

**ITEM 253 - PAVEMENT REPAIR, MISC.: FULL DEPTH REPLACEMENT**

THE CONTRACTOR SHALL PERFORM PAVEMENT REPAIRS AS PER ITEM 253 IN THE CMS.

THE ENGINEER SHALL DESIGNATE THE LOCATIONS AND LIMITS OF THE AREAS TO BE REPAIRED. THE AREAS SHALL BE ROUGHLY RECTANGULAR IN SHAPE AND SAWED OR MILLED TO A NEAT LINE. THE ENTIRE AREA INCLUDING VERTICAL FACES SHALL BE COATED PRIOR TO PLACING THE REPLACEMENT MATERIAL PER 253.03. REPAIRS TO PAVEMENT DAMAGED BY THE CONTRACTORS MEANS AND METHODS SHALL BE REPAIRED AT NO COSTS TO THE DEPARTMENT.

THE CONTRACTOR SHALL REPLACE THE PAVEMENT IN LAYERS THAT MATCH THE ADJACENT PAVEMENT AS CLOSE AS POSSIBLE. BASED ON AVAILABLE INFORMATION, THE PAVEMENT BUILDUP IS AS FOLLOWS:

- 1.5" OF ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A, (448)
- 2" OF ITEM 442 - ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448)
- 6" OF ITEM 301 - ASPHALT CONCRETE BASE, PG64-22 (449)
- 6" OF ITEM 304 - AGGREGATE BASE
- TACK COAT WILL BE APPLIED AT THE RATES SPECIFIED TABLE 407.06-1 IN THE CMS AND AS DIRECTED BY THE ENGINEER

THE REPLACEMENT MATERIAL SHALL BE FINISHED TO MATCH THE EXISTING PAVEMENT SURFACE. SEALING THE PERIMETER OF THE REPAIR AREA PER 251.03 IS INCLUDED IN THE PAYMENT OF ITEM 253.

ALL WORK TO REMOVE AND REPLACE THE PAVEMENT, INCLUDING ANY AND ALL MATERIALS SPECIFIED HEREIN SHALL BE INCLUDED IN THE UNIT BID PRICE OF ITEM 253 - PAVEMENT REPAIR, MISC.: FULL DEPTH REPLACEMENT

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER:

ITEM 253 - PAVEMENT REPAIR, MISC.: FULL DEPTH REPLACEMENT = 120 SY

**PROTECTION OF EXISTING SHOULDERS**

DUE TO THE POSSIBILITY OF DAMAGE TO THE EXISTING EDGE OF SHOULDER/PAVEMENT BY THE CONTRACTOR'S EQUIPMENT DURING FOUNDATION DRILLING OR ANY OTHER CONSTRUCTION ACTIVITIES, USE OF CRANE MATES OR EQUAL ON SHOULDERS IS HIGHLY ENCOURAGED TO PROTECT THE EDGE OF SHOULDER/PAVEMENT FROM DAMAGE. PAVEMENT/PAVED SHOULDER (INCLUDING EDGES OF SHOULDERS) DAMAGED BY THE CONTRACTOR'S MEANS AND METHODS, SHALL BE REPAIRED AT NO COST TO THE DEPARTMENT. MATERIALS USED TO MAKE THE REPAIRS SHALL MATCH EXISTING MATERIALS IN DEPTH AND WIDTHS AND SHALL BE SUCH AS TO ALLOW FOR PROPER COMPACTION OF MATERIALS IN THE REPAIR AREA.

THE CONTRACTOR SHALL NOT REDUCE THE EXISTING SHOULDER WIDTH BY SHIFTING THE PROPOSED BARRIER WALL IN ORDER TO AVOID MAKING REPAIRS TO THE EDGE OF THE SHOULDER.

PAVEMENT REPAIR QUANTITIES IN THE PLANS ARE ONLY TO BE USED TO REIMBURSE THE CONTRACTOR FOR ODOT DIRECTED PAVEMENT REPAIR AREAS ALREADY IN EXISTENCE AT TIME OF THE BID.

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MUT  
CHECKED  
MJC

**GENERAL NOTES**

**LUC-475 / 23-10.02 / 11.14 NOISEWALL**





SHEET NO.	REFERENCE NO.	STATION		SIDE	602	606				607	609	611				622			626			
					CONCRETE MASONRY	SPECIAL - NOISE BARRIER (REFLECTIVE)	GUARDRAIL, TYPE MGS	ANCHOR ASSEMBLY, MGS TYPE E	MGS BRIDGE TERMINAL ASSEMBLY, TYPE I	FENCE, TYPE CLT	GATE, TYPE CLT	CURB, TYPE 4-C	15" CONDUIT, TYPE C	18" CONDUIT, TYPE B	18" CONDUIT, TYPE C	CATCH BASIN, NO. 4	INLET, NO. 3 SINGLE SLOPE BARRIER, TYPE D	CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN	CONCRETE BARRIER END SECTION, TYPE D	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D	BARRIER REFLECTOR, TYPE 1, ONE-WAY	BARRIER REFLECTOR, TYPE 2, ONE-WAY
		CY	SF		FT	EA	EA	FT	EA	FT	FT	FT	FT	EA	EA	FT	EA	EA	EA	EA		
GLASGOW BARRIER 1																						
25-28	NB-1	100+24.00	119+36.00	CL		24968																
25	F-1	963+01.00 (U.S. 23)	963+10.00 (U.S. 23)	LT						1												
28	F-2	980+98.00 (U.S. 23)	981+05.00 (U.S. 23)	LT						1												
GLASGOW BARRIER 2																						
29-30	NB-2	138+92.00	148+10.00	CL		11958																
29-30	B-1	981+42.57 (U.S. 23)	988+46.66 (U.S. 23)	LT											674		2					
29-31	B-2	988+46.66 (U.S. 23)	991+43.50 (U.S. 23)	LT											267		2	11				
GLASGOW BARRIER 3																						
31	NB-3	150+00.00	151+32.00	CL		2376																
GLASGOW BARRIER 4																						
32-33	NB-4	160+16.00	167+66.00	CL		10290																
32	B-2A	991+43.50 (U.S. 23)	996+30.60 (U.S. 23)	LT											457		2	6				
33	D-1	996+30.60 (U.S. 23)	996+50.60 (U.S. 23)	LT	0.27								25		1							
33	B-3	996+50.60 (U.S. 23)	999+17.00 (U.S. 23)	LT											237	1	1	4				
33	GR-1	999+14.00 (U.S. 23)	1000+26.50 (U.S. 23)	LT			37.5	1	1										2			
33	C-1	999+16.66 (U.S. 23)	999+32.16 (U.S. 23)	LT							16											
CUSHMAN BARRIER 1																						
34-38	NB-5	200+44.00	223+56.00	CL		33106																
35	D-2	966+45.00 (U.S. 23)	966+55.00 (U.S. 23)	RT	0.31									10								
38	F-3	983+86.00 (U.S. 23)	983+95.00 (U.S. 23)	RT						1												
CUSHMAN BARRIER 2																						
39-41	NB-6	232+44.00	241+99.93	CL		13432																
39	GR-2	981+50.00 (U.S. 23)	982+62.50 (U.S. 23)	RT			37.5	1	1										2			
39	C-2	982+45.00 (U.S. 23)	982+60.00 (U.S. 23)	RT							15											
39-41	B-4	982+60.00 (U.S. 23)	990+12.25 (U.S. 23)	RT											723	1	1					
		990+12.25 (U.S. 23)	992+46.26 (U.S. 23)	RT											204		2	11				
40	D-3	990+12.00 (U.S. 23)	991+85.00 (U.S. 23)	M									172									
41	B-4A	992+46.26 (U.S. 23)	995+54.22 (U.S. 23)	RT										1			2	4				
41-42	NB-6A	241+94.21	248+66.00	CL		9408									278							
41	D-4	995+54.22 (U.S. 23)	995+74.22 (U.S. 23)	RT	0.27																	
41-42	B-5	995+74.22 (U.S. 23)	998+98.25 (U.S. 23)	RT										1	294		2	4				
VALLEY PARK BARRIER																						
43-45	NB-7	800+30.00	814+04.00	CL		16356																
DEVON HILL BARRIER																						
46-47	NB-8	898+80.00	906+96.00	CL		11280																
46	F-4	186+70.00 (I.R. 475)	187+83.00 (I.R. 475)	RT						10												
47	F-5	194+98.00 (I.R. 475)	195+06.00 (I.R. 475)	RT																		
SYLVAN GREEN BARRIER 2																						
48	NB-9	994+84.00	1001+64.00	CL		2196																
48	F-6	995+54.22 (U.S. 23)	995+74.22 (U.S. 23)	LT							1											
48	F-7	995+74.22 (U.S. 23)	998+98.25 (U.S. 23)	LT							1											
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>					0.9	135370	75	2	2	10	7	31	44	172	10	1	2	3135	2	14	40	4

CALCULATED SWC CHECKED MLL  
**NOISE BARRIER SUBSUMMARY**  
 LUC-475 / 23-10.02 / 11.14 NOISEWALL  
 22 / 156

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ADDENDUM 1

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SHEET NO.	REFERENCE NO.	STATION		SIDE	202						203	203	204	301	304	407	442	442	659	254	618	644
		FROM	TO		PIPE REMOVED, 24" AND UNDER	GUARDRAIL REMOVED	ANCHOR ASSEMBLY REMOVED, TYPE E	ANCHOR ASSEMBLY REMOVED, TYPE T	FENCE REMOVED	PAVEMENT REMOVED	EXCAVATION	EMBANKMENT	SUBGRADE COMPACTION	ASPHALT CONCRETE BASE COURSE, PG64-22, (449)	AGGREGATE BASE	TACK COAT	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A, (448)	ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A, (448)	SEEDING AND MULCHING	PAVEMENT PLANING, ASPHALT CONCRETE (7.5')	RUMBLE STRIP, SHOULDER (ASPHALT CONCRETE)	EDGE LINE, 6"
					FT	FT	EA	EA	FT	SY	CY	CY	SY	CY	CY	GAL	CY	CY	SY	SY	MI	MI
GLASGOW BARRIER 1																						
25-28	R-1	963+01.00 (U.S. 23)	982+03.00 (U.S. 23)	LT					1917													
GLASGOW BARRIER 4																						
32-33	R-2	991+09.52 (U.S. 23)	993+37.12 (U.S. 23)	LT		165	1	1														
CUSHMAN BARRIER 1																						
34-38	R-3	962+29.00 (U.S. 23)	983+95.00 (U.S. 23)	RT					2168													
35	R-4	966+45.00 (U.S. 23)	966+55.00 (U.S. 23)	RT	10																	
CUSHMAN BARRIER 2																						
42	R-5	996+15.00 (U.S. 23)	998+56.00 (U.S. 23)	RT		179	1	1														
DEVON HILL BARRIER																						
46-47	R-6	186+70.00 (I.R. 475)	195+06.00 (I.R. 475)	RT					837													
SYLVAN GREEN BARRIER 2																						
48	R-7	922+16.27 (U.S. 23)	924+07.46 (U.S. 23)	LT					185													
PAVEMENT																						
CUSHMAN BARRIER 2																						
40	P-1	988+07.00 (U.S. 23)	991+08.00 (U.S. 23)	M						78	90	425	413	69	69	50	17	23	890			
40-41	P-2	990+60.00 (U.S. 23)	991+66.00 (U.S. 23)	LT								150	92		20							
42	P-3	998+50.00 (U.S. 23)	999+98.00 (U.S. 23)	RT							47		213		47							
39-42	B-4,B-4A,B-5	982+60.00 (U.S. 23)	998+98.25 (U.S. 23)	RT												180	84			2006	0.31	0.31
GLASGOW BARRIER 2 & 4																						
29-31	B-1,B-2,B-3	981+42.57 (U.S. 23)	999+17.00 (U.S. 23)	LT												178	83			1985	0.34	0.34
TOTALS CARRIED TO GENERAL NOTE																						
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>					10	344	2	2	5107	78	137	575	718	69	136	408	184	23	890	3991	0.65	0.65

CALCULATED SWC CHECKED MLL  
**REMOVAL & PAVEMENT SUBSUMMARY**  
**LUC-475 / 23-10.02 / 11.14 NOISEWALL**

PROJECT: LUC-23-09.81 TYPE: NOISE WALL	DRILLING FIRM / OPERATOR: NEAS / J. HODGES	DRILL RIG: CME 55X	STATION / OFFSET: 314+18, 16' LT.	EXPLORATION ID: B-061-0-17														
PID: 103647 SFN: 5/16/18	SAMPLING FIRM / LOGGER: NEAS / J. HODGES	HAMMER: CME AUTOMATIC	ALIGNMENT: SYLVANGREEN BARRIER															
START: 5/16/18 END: 5/16/18	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 11/29/17	ELEVATION: 655.0 (MSL) EOB: 25.5 ft.	PAGE: 1 OF 1														
	SAMPLING METHOD: SPT	ENERGY RATIO (%): 85.4	LAT / LONG: 41.705455, -83.690263															
MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	HP ID	GR	CS	FS	SI	CL	LL	PL	PI	WC	ODOT CLASS (G)	BACK FILL	
LOOSE TO DENSE, BROWN BECOMING GRAY, COARSE AND FINE SAND, SOME SILT, TRACE CLAY, TRACE GRAVEL, WET	655.0	1	3	13	100	SS-1	-	-	-	-	-	-	-	-	18	A-3a (V)	↖ ↗ ↘ ↙ ↕	
		2	6	21	100	SS-2	-	-	-	-	-	-	-	-	21	A-3a (V)	↖ ↗ ↘ ↙ ↕	
		3	6	9														↖ ↗ ↘ ↙ ↕
		4	2	2	6	100	SS-3	0	1	67	29	3	NP	NP	NP	23	A-3a (O)	↖ ↗ ↘ ↙ ↕
		5	3	5	6	100	SS-4	-	-	-	-	-	-	-	-	22	A-3a (V)	↖ ↗ ↘ ↙ ↕
		6	7	11	37	100	SS-5	-	-	-	-	-	-	-	-	18	A-3a (V)	↖ ↗ ↘ ↙ ↕
		7	15	10	8	9	SS-6	-	-	-	-	-	-	-	-	22	A-4b (V)	↖ ↗ ↘ ↙ ↕
		8	3	4	13	100	SS-7	0	0	4	84	12	NP	NP	NP	23	A-4b (8)	↖ ↗ ↘ ↙ ↕
		9	2	3	6													↖ ↗ ↘ ↙ ↕
		10	3	4	6	100	SS-8	-	-	-	-	-	-	-	-	22	A-4b (V)	↖ ↗ ↘ ↙ ↕
		11	3	4	5	100	SS-9	-	-	-	-	-	-	-	-	21	A-4b (V)	↖ ↗ ↘ ↙ ↕
		12	3	4	5	100	SS-10	-	-	-	-	-	-	-	-	20	A-4b (V)	↖ ↗ ↘ ↙ ↕
		13	2	6	4	100	SS-11	-	-	-	-	-	-	-	-	19	A-4b (V)	↖ ↗ ↘ ↙ ↕
		14																↖ ↗ ↘ ↙ ↕
		15																↖ ↗ ↘ ↙ ↕
		16																↖ ↗ ↘ ↙ ↕
		17																↖ ↗ ↘ ↙ ↕
		18																↖ ↗ ↘ ↙ ↕
		19																↖ ↗ ↘ ↙ ↕
		20																↖ ↗ ↘ ↙ ↕
		21																↖ ↗ ↘ ↙ ↕
		22																↖ ↗ ↘ ↙ ↕
		23																↖ ↗ ↘ ↙ ↕
		24																↖ ↗ ↘ ↙ ↕
		25																↖ ↗ ↘ ↙ ↕
MEDIUM DENSE, GRAY, SILT, LITTLE CLAY, TRACE SAND, TRACE GRAVEL, WET	643.0																↖ ↗ ↘ ↙ ↕	
	629.5																↖ ↗ ↘ ↙ ↕	

NOTES: GROUNDWATER ENCOUNTERED AT 5.0' DURING DRILLING. HOLE DID NOT CAVE.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

PROJECT: LUC-23-09.81 TYPE: NOISE WALL	DRILLING FIRM / OPERATOR: NEAS / J. HODGES	DRILL RIG: CME 55X	STATION / OFFSET: 316+16, 29' LT.	EXPLORATION ID: B-062-0-17														
PID: 103647 SFN: 5/16/18	SAMPLING FIRM / LOGGER: NEAS / J. HODGES	HAMMER: CME AUTOMATIC	ALIGNMENT: SYLVANGREEN BARRIER															
START: 5/16/18 END: 5/16/18	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 11/29/17	ELEVATION: 653.6 (MSL) EOB: 25.5 ft.	PAGE: 1 OF 1														
	SAMPLING METHOD: SPT	ENERGY RATIO (%): 85.4	LAT / LONG: 41.705950, -83.689968															
MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	HP ID	GR	CS	FS	SI	CL	LL	PL	PI	WC	ODOT CLASS (G)	BACK FILL	
LOOSE, BROWN AND DARK BROWN, COARSE AND FINE SAND, TRACE SILT, TRACE CLAY, TRACE GRAVEL, CONTAINS ROOTS; WET	653.6	1	2	7	100	SS-1	-	-	-	-	-	-	-	-	21	A-3a (V)	↖ ↗ ↘ ↙ ↕	
		2	3	4	11	100	SS-2	2	1	51	36	10	NP	NP	25	A-4a (2)	↖ ↗ ↘ ↙ ↕	
		3	4	4														↖ ↗ ↘ ↙ ↕
		4	4	4	20	100	SS-3	0	1	58	36	5	NP	NP	NP	23	A-4a (1)	↖ ↗ ↘ ↙ ↕
		5	4	5	9													↖ ↗ ↘ ↙ ↕
		6	4	8	30	100	SS-4	0	14	83	2	1	NP	NP	NP	18	A-3 (0)	↖ ↗ ↘ ↙ ↕
		7	13															↖ ↗ ↘ ↙ ↕
		8	4	8	30	100	SS-5	-	-	-	-	-	-	-	-	21	A-3 (V)	↖ ↗ ↘ ↙ ↕
		9	4	8	13													↖ ↗ ↘ ↙ ↕
		10	4	2	4	100	SS-6	1.25	0	1	2	81	16	22	19	3	A-4b (8)	↖ ↗ ↘ ↙ ↕
		11	6	4	6													↖ ↗ ↘ ↙ ↕
		12	2	4	5	100	SS-7	2.75	-	-	-	-	-	-	-	23	A-4b (V)	↖ ↗ ↘ ↙ ↕
		13	2	2	2													↖ ↗ ↘ ↙ ↕
		14	3	5	4	100	SS-8	4.00	-	-	-	-	-	-	-	20	A-4b (V)	↖ ↗ ↘ ↙ ↕
		15	5	6	23	100	SS-10	2.00	-	-	-	-	-	-	-	21	A-4b (V)	↖ ↗ ↘ ↙ ↕
		16	3	7	24	100	SS-11	2.75	-	-	-	-	-	-	-	21	A-4b (V)	↖ ↗ ↘ ↙ ↕
		17																↖ ↗ ↘ ↙ ↕
		18																↖ ↗ ↘ ↙ ↕
		19																↖ ↗ ↘ ↙ ↕
		20																↖ ↗ ↘ ↙ ↕
		21																↖ ↗ ↘ ↙ ↕
		22																↖ ↗ ↘ ↙ ↕
		23																↖ ↗ ↘ ↙ ↕
		24																↖ ↗ ↘ ↙ ↕
		25																↖ ↗ ↘ ↙ ↕
STIFF TO VERY STIFF, GRAY, SILT, LITTLE CLAY, TRACE SAND, TRACE GRAVEL, WET TO MOIST	641.6																↖ ↗ ↘ ↙ ↕	

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS