Appendix B
Sample Plan Notes

The sample plan notes included in this Appendix are those most frequently used. Each note is accompanied by a "Designer Note" in an attempt to give some guidance as to when the note should be used and how to estimate quantities for some of the items where the methods for quantity calculations are not obvious.

The following note categories are included:

Category	Letter Prefix	Sheet Number
General Notes	G	B1-B12
Pavement Notes	P	B13-B18
Environmental Notes	V	B19-B24

Additional notes may be found in the following manuals:

Traffic Engineering Manual
Bridge Design Manual
Location and Design Manual, Volume 1
Location and Design Manual, Volume 2

None of these notes should be used unless the situation is known, or is considered likely, to occur on the project involved. All sub-paragraphs and parenthetical phrases that do not apply to the project involved shall be excluded. If quantities are provided in the notes, participation splits shall be shown when required.

Appendix B
Sample Plan Notes

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GENERAL

NUMBER	NAME
G101	Rounding
G102	Utilities
G103	Existing Plans
G104	Construction Noise
G105	Surveying Positional Parameters
G106	Work Limits
G107	Protection of Right-of-Way Landscaping
G108	Conversion of Standard Construction Drawings
G109	Clearing and Grubbing
G110	Benching of Foundation Slopes
G111	Monument Assemblies
G112	Item 204 - Proof Rolling
G113	Item 601 – Dumped Rock Fill, Type _____, As Per Plan / Item 203 – Granular Material, Type _____, As Per Plan
G114	Item 203 - Embankment Using No. 8 Aggregate
G115	Additional Soil Information
G116	Channel Embankments
G117	Borrow Material
G118	Item 607 - Fence Rebuilt, Type _____
G119	Airway/Highway Clearance for Airports and Heliports
G120	Fence Lengths
G121	Item Special - Soil Sterilant

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G101 – ROUNDING

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

Designer Note: When appropriate, the Typical Sections should show rounding at the slope breakpoints in accordance with the Location and Design Manual, Volume 1. Since rounding is not shown on the cross-sections, the above plan note should be used on all plans where rounding is called for on the Typical Sections.

G102 – UTILITIES

Designer Note: Note G102A is used on all plans where utilities presently exist within the construction limits of the project. The second paragraph (G102A1, A2, or A3) is in reference to the location of existing underground utilities. The specific paragraph shall be determined as follows:

Note G102A1 is used when all known underground utilities are shown in the plan.

Note G102A2 is used when the existing underground utilities will not be adversely affected because of the nature of the proposed work (no excavation, other ground penetration, etc.).

Note G102A3 is used only if there are no existing underground utilities within the construction limits.

Note G102B is used only if no underground or overhead utilities exist within the construction limits.

G102A

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

(List all sanitary, telephone, electric, gas, water, cable TV, etc.)	(Name of Owner, Street or P.O. Box, City, State, Zip Code, and Emergency Telephone Number.)

G102A1

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.

G102A2

THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THIS PLAN. THE NATURE OF THE WORK REQUIRED BY THIS PROJECT WILL NOT AFFECT ANY KNOWN UNDERGROUND UTILITIES THAT EXIST UNDER OR ADJACENT TO THE WORK AREA.

G102A3

THERE ARE NO KNOWN UNDERGROUND UTILITIES ON THIS PROJECT.

G102B

THERE ARE NO KNOWN UNDERGROUND OR OVERHEAD UTILITIES WITHIN THE PROJECT CONSTRUCTION LIMITS.

Appendix B
Sample Plan Notes

G103 - EXISTING PLANS

EXISTING PLANS ENTITLED _____ MAY BE INSPECTED IN THE ODOT DISTRICT ____ OFFICE IN _____.

Designer Note: Use this note when existing plans are available.

G104 - 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 _____ AND _____. 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.

Designer Note: The above note should be used when work is to be accomplished in noise-sensitive areas. Times are usually normal sleeping hours, however, other time periods may be used depending upon the area.

G105 – SURVEYING POSITIONAL PARAMETERS

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

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: _____
GEOID: _____

HORIZONTAL POSITIONING

REFERENCE FRAME: _____
ELLIPSOID: _____
MAP PROJECTION: _____
COORDINATE SYSTEM: _____
COMBINED SCALE FACTOR: _____
ORIGIN OF SCALE (X,Y) - EASTING (X): _____NORTHING (Y): _____
COMBINED SCALE FACTOR: _____
COMPUTATION POINT (X,Y,Z) - EASTING (X): _____NORTHING (Y): _____
ELEVATION (Z): _____

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

Designer Note: Unless otherwise directed by the District Survey Operations Manager, use this note for all projects. Specify the appropriate vertical and horizontal positioning parameters used for the existing mapping of the project by filling in the blanks after each item. Ensure the combined scale factor is carried to the 9th decimal place. Contact the surveyor responsible for preparing the survey for assistance in completing the note. Contact the District Survey Operations Manager for approval of any modifications to the information being provided in the note.

G106 - 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.

Designer Note: Use the above note on projects where temporary traffic control devices are located outside normal work limits.

G107 - PROTECTION OF RIGHT-OF-WAY LANDSCAPING

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

CONSTRICT 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 [10 METERS] 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. EXCEPT AS INDICATED ON SHEET ____ 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.

Designer Note: This note should be used on all interstate projects. On non-interstate projects, the District will decide if this note should be included in the plan. Edit note to provide locations where disposal of waste material and construction debris, excavation of borrow material and placement of portable plants is permitted.

G108 - CONVERSION OF STANDARD CONSTRUCTION DRAWINGS

Designer Note:

> Use note G108A when any metric Standard Construction Drawings are listed on the title sheet of an English unit plan.
>
> Use note G108B when any English Standard Construction Drawings are listed on the title sheet of a metric unit plan.

G108A

CONVERT THE METRIC STANDARD DRAWINGS REFERENCED IN THIS PLAN TO ENGLISH UNITS USING THE SI (METRIC) TO ENGLISH CONVERSION FACTORS PROVIDED IN SECTION 109.02 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS.

CONVERSIONS WILL BE APPROPRIATELY PRECISE AND REFLECT STANDARD INDUSTRY ENGLISH VALUES WHERE SUITABLE.

G108B

CONVERT THE ENGLISH STANDARD DRAWINGS REFERENCED IN THIS PLAN TO METRIC UNITS USING THE ENGLISH TO SI (METRIC) CONVERSION FACTORS PROVIDED IN SECTION 109.02 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS. CONVERSIONS WILL BE APPROPRIATELY PRECISE AND REFLECT STANDARD INDUSTRY SI (METRIC) VALUES WHERE SUITABLE.

G109 - CLEARING AND GRUBBING

Designer Notes: Note G109A should be used when Item 201, Clearing and Grubbing is in the plan and no trees or stumps have been specifically marked for removal.

Note G109B should be used when Item 201, Clearing and Grubbing is in the plan and individual trees and stumps to be removed are clearly shown on the plan. If there are no trees or stumps to be removed greater than 12 inches [0.3 m] in diameter, use note G109A. See 201.05 of the Specifications for conversion from actual size to size to be used in the note.

Note G109C should be used on heavily wooded projects where an accurate count of trees is not practical. Where feasible, individual trees and stumps should be shown in the plans. In areas where it is difficult to survey the locations of individual trees, the limits of heavily wooded areas should be shown. All trees within the construction limits which are to remain must be shown and labeled as “Do Not Disturb” on the Plan and Profile and the Right-of-Way Plan sheets. An estimate of the number of trees and stumps to be removed must be listed on the LD-4 Estimating Information form for all projects. In heavily wooded areas, in lieu of actual count on the entire area, a representative area may be counted and the results used to calculate the count for the entire area.

G109A

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.

G109B

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
18" [0.5 m]			
30" [0.8 m]			
48" [1.2 m]			
60" [1.5 m]			

G109C

THE DEPARTMENT HAS NOT MARKED INDIVIDUAL TREES AND STUMPS FOR REMOVAL. UNLESS SPECIFICALLY DESIGNATED AS “DO NOT DISTURB” IN THE PLANS, REMOVE ALL TREES AND STUMPS WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201 CLEARING AND GRUBBING.

G110 - BENCHING OF FOUNDATION SLOPES

ALTHOUGH CROSS-SECTIONS INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. BENCH ALL OTHER SLOPED EMBANKMENT AREAS AS SET FORTH IN 203.05. NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF 203.05

Designer Note: Use this note in conjunction with special embankment slope foundation benching.

G111 – MONUMENT ASSEMBLIES

CONSTRUCT MONUMENT ASSEMBLIES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON SHEET NO. _____.

Designer Note: This note should be used when monument assembly construction is included in the plan.

G112 - ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING. SEE PLAN SHEET NO_____FOR ADDITIONAL INFORMATION.

ITEM 204 – PROOF ROLLING_____HOUR.

Designer Note: The estimate should be based on one hour of roller time for each 2000 Sq. Yd. [1700 Sq. Meters] of 204, Subgrade Compaction for reconstruction projects and 3000 Sq. Yd. [2500 Sq. Meters] of 204, Subgrade Compaction for new construction. Proof Rolling is recommended on all projects where subgrade compaction is required except very short projects such as bridge approaches.

G113 - ITEM 601 – DUMPED ROCK FILL, TYPE _____, AS PER PLAN / ITEM 203 – GRANULAR MATERIAL, TYPE _____, AS PER PLAN

IN THE AREA BETWEEN STATIONS_____AND_____, DUMPED ROCK FILL, TYPE _____/GRANULAR MATERIAL, TYPE ____, AS SHOWN ON THE CROSS-SECTIONS, MAY BE PLACED BY THE METHOD OF END DUMPING IF SURFACE WATER IS PRESENT AT THE TIME OF CONSTRUCTION. END DUMPING METHODS MAY BE USED UP TO AN ELEVATION 2 FEET [0.5 METER] ABOVE THE WATER LEVEL. ABOVE THIS ELEVATION, EMBANKMENT CONSTRUCTION METHODS WILL BE IN ACCORDANCE WITH 203.05 TO 203.07 INCLUSIVE. DURING NORMAL CLEARING AND GRUBBING WHERE END DUMPING IS PERMITTED, THE REQUIREMENTS OF 201.04 FOR SCALPING SHALL BE WAIVED.

Designer Note: Use this note for placement of embankment through standing water. Granular Materials Type C, D, or E may be used where water depth is less than 5.0 feet and displacement of soft soils is not anticipated. Dumped Rock may be used where water depths are greater than 5.0 feet and/or soft soil displacement is anticipated. Larger sizes are to be used for greater depths.

G114 – ITEM 203 – EMBANKMENT USING NO. 8 AGGREGATE

FURNISH DURABLE, NATURAL AGGREGATE NO. 8 SIZE. PLACE THE AGGREGATE AT THE THICKNESS AND SLOPE AS SHOWN ON THE CROSS-SECTIONS.

Designer Note: This note is used where a drainage blanket is placed on the slope before placing embankment.

G115 - ADDITIONAL SOIL INFORMATION

THE SOIL PROFILE AND/OR STRUCTURE FOUNDATION INVESTIGATIONS SHEETS CONTAIN ALL AVAILABLE SOIL AND BEDROCK INFORMATION WHICH CAN BE CONVENIENTLY SHOWN. ADDITIONAL SUBSURFACE INVESTIGATION INFORMATION IS AVAILABLE FROM _____.

Designer Note: All soil information obtained for a project should normally be provided with the plans. Use this note ONLY when some portion of the information will not be provided with the plan. The note should be edited to give the location where soils information can be obtained (e.g. District Office, Office of Geotechnical Engineering, etc.).

This note should appear on the first soil profile sheet or first structure foundation investigation sheet. In the event that no soil sheets accompany the plan, the note should be placed in the General Notes.

G116 - CHANNEL EMBANKMENTS

FILL AND SLOPE PORTIONS OF THE EXISTING CHANNEL TO DRAIN AS SHOWN IN THESE PLANS. IN CHANNEL EMBANKMENT AREAS WHICH WILL NOT SUPPORT ANY PORTION OF THE NEW ROAD BED OR STRUCTURAL EMBANKMENTS, THE CONTRACTOR MAY UTILIZE EMBANKMENT METHODS MEETING THE FOLLOWING REQUIREMENTS:

CLEAR ALL WEEDS AND BRUSH IN AREAS WHERE CHANNEL EMBANKMENTS ARE TO BE PLACED. THE REQUIREMENTS FOR MOISTURE, DENSITY CONTROL, BENCHING AND SUITABLE MATERIALS IS WAIVED. PLACE THE MATERIAL IN 8-INCH [200 mm] LOOSE LIFTS. THE ENGINEER MAY INCREASE THE LIFT THICKNESS IN ORDER TO BRIDGE THE SOFT OR WET FOUNDATIONS DEPENDING ON THE STABILITY OF THE FOUNDATION. THE ENGINEER MAY INCREASE THE LIFT THICKNESS UP TO 24 INCHES [600 mm] TO OBTAIN STABILITY AT THE TOP OF THE LIFT.

PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 203, EMBANKMENT.

Designer Note: This note should be used whenever there is considerable channel embankment outside roadway or structure earthwork areas.

G117 - BORROW MATERIAL

IDENTIFICATION OF BORROW AREAS ON THE PLANS DOES NOT INDICATE THAT THE MATERIAL AVAILABLE FROM THESE AREAS MEETS THE REQUIREMENTS OF CMS 203.

Designer Note: Use this note when borrow areas are indicated on the plans.

G118 - ITEM 607 - FENCE REBUILT, TYPE ( )

CAREFULLY RECONDITION AND RE-ERECT FENCE AND COMPONENT PARTS AS DETAILED ON THE PLANS. DO NOT DAMAGE THE FENCE OR COMPONENT PARTS. ANY NEW PARTS WHICH ARE NEEDED, AS DETERMINED BY THE ENGINEER, WILL BE SUPPLIED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.

THE AMOUNT OF REBUILT FENCE TO BE PAID FOR WILL BE THE NUMBER OF FEET [METERS] REBUILT, COMPLETE IN PLACE AND MEASURED AS PROVIDED FOR IN 607.09.

PAYMENT FOR THE ABOVE WILL BE PAID FOR AT THE CONTRACT PRICE PER FOOT [METER] FOR ITEM 607, FENCE REBUILT, TYPE _____.

Designer Note: Fence which is to be rebuilt shall be removed under Item 202, Fence Removed for Reuse. The length removed for reuse should equal the length rebuilt.

G119 – AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

G119A

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____ FT. [METERS]. 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 FILE A NEW FAA FORM 7460-1, ADVISING THE FAA THAT AERONAUTICAL STUDY NO.____ IS BEING RESUBMITTED AND THAT AN ALTERATION TO THE ORIGINAL SUBMISSION IS REQUESTED.

COPIES OF THE ALTERATION AND FORM 7460-1 SHALL BE FORWARDED TO THE ODOT OFFICE OF AVIATION. 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.

FAA APPROVAL MAY TAKE UP TO 45 DAYS. ALL SUBMISSIONS SHALL BE DIRECTED TO THESE OFFICES:

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

Designer's Note: Use note G119A when the construction equipment penetrates the notification surface of a public use airport or heliport. The omitted height shall be that which is determined by the FAA in its letter of response or approval to Form 7460-1, regarding the elevations that were submitted. If the FAA approves the original submission, then the maximum height included in the original submission shall be entered in the note. However, if the FAA approves contingent upon a lesser elevation, then that elevation shall be entered. The Aeronautical Study No. is set by the FAA when the Form 7460-1 is originally submitted.

G119B

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____ FT. [METERS]. 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. A COPY OF THE SUBMISSION AND TWO COPIES OF FORM 7460-1 SHALL BE FORWARDED TO THE ODOT OFFICE OF AVIATION.

G119 – AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS (CONTINUED)

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

Designer's Notes: Use note G119B when the construction equipment does not penetrate the notification surface of a public airport or heliport. The omitted height shall be the available clearance below the notification surface.

G119C

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PRIVATE USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF ____ FT. [METERS], IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT. COORDINATION WITH THE AIRPORT OWNER WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. FOR PRIVATE USE AIRPORTS OR HELIPORTS, COORDINATE WITH THE AIRPORT OWNER. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL COORDINATION IS MET AND DOCUMENTATION HAS BEEN FURNISHED TO THE PROJECT ENGINEER. IF COORDINATION IS NOT OBTAINED, THEN THE PROJECT ENGINEER WILL HAVE THE AUTHORITY TO PROVIDE RESTRICTIONS AS REQUIRED.

The Private Airport
The Private Airport Owner
Address of Airport
City, State, Zip Code
(Area Code) - Phone Number

Designer's Notes: Use note G119C when the construction equipment penetrates the notification surface of a private use airport. The omitted height shall be the available clearance below the notification surface.

G120 - FENCE LENGTHS

THE LENGTHS OF FENCE SHOWN IN THE PLANS ARE HORIZONTAL DIMENSIONS. MEASUREMENTS OF THE FINAL QUANTITIES WILL BE IN ACCORDANCE WITH ITEM 607.

Designer Note: This note should be used on every project that includes fence quantities.

G121 - ITEM SPECIAL - SOIL STERILANT

USE ONE OF THE SOIL STERILANT PRODUCTS LISTED BELOW OR AN APPROVED EQUAL. APPLY THE SOIL STERILANT TO LOCATION(S) WHERE IN-ROAD VEGETATION EXISTS AS DETERMINED BY THE ENGINEER. THIS SHOULD BE DONE IMMEDIATELY PRIOR TO PLACING THE PROPOSED (ROAD SURFACE).

G121 - ITEM SPECIAL - SOIL STERILANT (CONTINUED)

PRAMITOL 25E
GIBA SPECIALTY CHEMICALS
MCINTOSH, ALABAMA 36553

ROUNDUP PRO L
MONSANTO COMPANY
800 N. LINDBERGH BLVD.
ST. LOUIS, MO. 63167

HYVAR XL
DUPONT CORPORATION
1007 MARKET STREET
WILMINGTON, DELAWARE 19898

COMPACT THE SITE FOLLOWING PLOWING OR DISKING. APPLY THE SOIL STERILANT AT THE SUGGESTED MANUFACTURER'S RATE.

THE PREFERRED TIME FRAME TO APPLY THE SOIL STERILANT IS BETWEEN JUNE 15 AND OCTOBER 15. VERY DRY SOIL CONDITIONS MAY RESULT IN POOR WEED CONTROL. DO NOT APPLY THE SOIL STERILANT TO SOIL OR BALLAST MATERIAL WHICH IS SATURATED WITH WATER. CONSULT WITH MANUFACTURER IN REGARD TO THE HANDLING AND PHYSICAL CHEMICAL HAZARDS ASSOCIATED WITH THE SOIL STERILANT.

PAYMENT FOR THE ABOVE REFERENCED ITEM IS INCLUDED IN THE PRICE PER SQUARE YARD [SQUARE METER] OF ITEM SPECIAL, SOIL STERILANT. A QUANTITY OF _____ SQUARE YARDS [SQUARE METERS] IS INCLUDED IN THE GENERAL SUMMARY TO BE USED AT LOCATIONS AS DETERMINED BY THE ENGINEER.

EACH SUCCESSFUL BIDDER MUST BE LICENSED BY THE STATE OF OHIO DEPARTMENT OF AGRICULTURE AS A COMMERCIAL APPLICATOR. IN ADDITION, ALL PERSONS INVOLVED IN THE ACTUAL SPRAYING OF HERBICIDE WILL BE LICENSED AS COMMERCIAL OPERATORS IN THE APPROPRIATE SPRAY CATEGORY. SUBMIT APPROPRIATE LICENSES TO THE PROJECT ENGINEER, PRIOR TO COMMENCING WORK, FOR VERIFICATION.

Designer Note: This note should be used on all projects using soil sterilant.

PAVEMENT

NUMBER	NAME
P101	Paving at Railroad Crossing
P102	Profile and Alignment
P103	Contraction and/or Expansion Joints
P104	Contraction Joints in Concrete Pavement or Base Widening
P105	Part-Width Construction
P106	Median and/or Curbing on Approach Slabs
P107	Item 880 Asphalt Concrete with Warranty
P108	Pavement Restoration for Pipe Installations and/or Removals
P109	Pavement Restoration for Drainage Structure Installations
P110	Pavement Restoration for Monument Assembly Installations

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P101 - PAVING AT RAILROAD CROSSING

WORK THE CROWN OUT OF THE PROPOSED PAVEMENT ON EACH SIDE OF THE RAILROAD CROSSING, BEGINNING 50 FEET [15 METERS] FROM THE NEAREST RAIL, BY RAISING THE EDGES OF THE NEW PAVEMENT TO MEET THE PLATFORM ELEVATION.

Designer Note: Use this note on resurfacing projects involving at-grade railroad crossings.

P102 - PROFILE AND ALIGNMENT

PLACE THE PROPOSED PAVEMENT TO FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. (PREVIOUS CONSTRUCTION PLANS, PROJECT NO. ____, SHOWING THE ORIGINAL ALIGNMENT AND PROFILE, ARE AVAILABLE FOR INSPECTION AT THE ODOT DISTRICT _____ OFFICE). PLACE THE PROPOSED ASPHALT CONCRETE OVERLAY (WITH A UNIFORM THICKNESS OF _____ INCHES [MILLIMETERS]) (VARYING IN THICKNESS FROM _____ INCHES [MILLIMETERS] AT THE CROWN TO _____ INCHES [MILLIMETERS] AT THE PAVEMENT EDGE)(AS SHOWN ON THE TYPICAL SECTIONS).

Designer Note: Use this note on resurfacing projects where the profile and alignment are not shown on the plan. Eliminate the second sentence if old plans are not available.

P103 - CONTRACTION AND/OR EXPANSION JOINTS

ALTHOUGH SPECIFIC LOCATIONS OF CERTAIN CONTRACTION AND EXPANSION JOINTS HAVE BEEN DETAILED ON THIS PLAN, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. IN ALL CASES, THE PROVISION OF EXPANSION JOINTS AT ALL MAJOR STRUCTURES INCLUDING THE MAXIMUM SPACING BETWEEN CONTRACTION JOINTS IS IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING BP-2.2 AND THE SPECIFICATIONS.

Designer Note: Use this note with concrete pavement or base.

P104 - CONTRACTION JOINTS IN CONCRETE PAVEMENT OR BASE WIDENING

P104A

WHERE NEW CONCRETE IS PLACED ADJACENT TO EXISTING CONCRETE, PROVIDE CONTRACTION JOINTS IN THE NEW CONCRETE TO FORM CONTINUOUS JOINTS WITH THOSE IN THE EXISTING CONCRETE.

THE MAXIMUM DISTANCE BETWEEN THE JOINTS IN THE NEW CONCRETE ARE IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING BP-2.2, IF NECESSARY, ADDITIONAL JOINTS MAY BE PROVIDED IN THE NEW CONCRETE AT APPROXIMATELY EQUAL INTERVALS BETWEEN EXISTING JOINTS THAT EXCEED THE MAXIMUM SPACING.

Designer Note: Use this note with concrete pavement or concrete base widening that is not tied to the existing concrete.

P104 - CONTRACTION JOINTS IN CONCRETE PAVEMENT OR BASE WIDENING (CONTINUED)

P104B

WHERE NEW CONCRETE IS PLACED ADJACENT TO AND TIED TO EXISTING CONCRETE, THE CONTRACTION JOINT SPACING REQUIRED IN STANDARD CONSTRUCTION DRAWING BP-2.2 WILL BE WAIVED. CONSTRUCT CONTRACTION JOINTS IN THE NEW CONCRETE PAVEMENT TO FORM A CONTINUOUS LINE WITH ALL CONTRACTION JOINTS IN THE EXISTING CONCRETE PAVEMENT. INSTALL EXPANSION JOINTS IN THE NEW CONCRETE PAVEMENT TO FORM A CONTINUOUS LINE WITH ALL EXPANSION JOINTS IN THE EXISTING CONCRETE PAVEMENT.

Designer Note: Use this note with concrete pavement or concrete base widening that is tied to the existing concrete. The concrete placed using this note shall be an “as per plan” item on the general summary.

P105 - PART-WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXERCISE CARE TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LAP LONGITUDINAL JOINTS AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

Designer Note: Use this note only on projects with flexible pavement requiring part-width construction.

P106 - MEDIAN AND/OR CURBING ON APPROACH SLABS

WITHIN THE LIMITS OF THE APPROACH SLAB, TRANSITION THE SHAPE OF THE MEDIAN AND/OR CURBING ON APPROACH SLABS FROM THE STANDARD SECTION ON THE APPROACHES TO THE SECTION USED ON THE BRIDGE.

Designer Note: Use this note when the height, width or shape of a median or curb changes from the approach to the bridge.

P107 - ITEM 880 - ASPHALT CONCRETE WITH WARRANTY

INDIVIDUAL LIFT THICKNESSES AND STEP WIDTHS SHOWN IN THE PLAN ARE THE PLAN LINES AND DIMENSIONS USED FOR QUANTITY CALCULATION. THEY ARE NOT THE REQUIRED LIFTS OR STEPS FOR ACTUAL CONSTRUCTION BUT NO ADJUSTMENT WILL BE MADE TO THE PLAN QUANTITY DUE TO DIFFERENT LIFT THICKNESSES AND/OR STEP WIDTHS WHEN A UNIFORM THICKNESS IS SPECIFIED.

Designer Note: Add this note whenever Item 880, Asphalt Concrete Pavement with Warranty is specified.

P108 - PAVEMENT RESTORATION FOR PIPE INSTALLATIONS AND/OR REMOVALS

THE FOLLOWING QUANTITY HAS BEEN PROVIDED FOR PAVEMENT RESTORATION FOLLOWING INSTALLATION AND/OR REMOVAL OF PIPES.

ITEM 301 ASPHALT CONCRETE BASE, PG64-22 _____ CU. YDS.[CU. METERS]

THE ABOVE QUANTITY IS BASED ON A 301 THICKNESS OF _____ INCHES [MM] AND A PAVEMENT RESTORATION WIDTH THAT INCLUDES THE TRENCH WIDTH PLUS TWO FEET [0.6 METERS] ON EACH SIDE OF THE TRENCH. SEE STANDARD CONSTRUCTION DRAWING DM-1.4 FOR TRENCH WIDTH FORMULA AND CALCULATION.

PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

Designer Note: Use this note whenever pipe is removed under Item 202 and/or Item 603, 605, or 638 are specified and will require pavement restoration not otherwise covered in the plans. Edit note to call out Item 605 or 638, when these items are included in the plans. Include 301 thickness used in the quantity calculations. Add additional items such as 448 or 609 when they are needed for repairs. Revise note if a different method of calculation was used to determine the pavement restoration quantity (e.g., for very deep pipes an additional width might be needed). For projects with full-depth pavement work, pavement removal associated with pipe installations shall be included under the applicable pay item used for pavement removal or excavation (Item 202 Pavement Removed, Item 202 Pavement Removed, Asphalt or Item 203 Excavation). For projects without other pavement work, the designer shall add a quantity of Item 202 Pavement Removed, Item 202 Pavement Removed, Asphalt or Item 203 Excavation.

P109 - PAVEMENT RESTORATION FOR DRAINAGE STRUCTURE INSTALLATIONS

THE FOLLOWING QUANTITY IS PROVIDED FOR PAVEMENT RESTORATION FOLLOWING INSTALLATION OF ITEM 604 DRAINAGE STRUCTURES.

ITEM 301 ASPHALT CONCRETE BASE, PG64-22 _____ CU. YDS.[CU. METERS]

THE ABOVE QUANTITY IS BASED ON A 301 THICKNESS OF _____ INCHES [MM] AND A WIDTH OF TWO FEET [0.6 METERS] AROUND THE PERIMETER OF THE DRAINAGE STRUCTURE.

PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

Designer Note: Use this note whenever 604 or 638 items are specified and will require pavement restoration not otherwise covered in the plans. Edit note to call out Item 638 when included. Include 301 thickness used in the quantity calculations. Add additional items such as 448 or 609 when they are needed for repairs. Revise note if a different method of calculation was used to determine the pavement restoration quantity.

P110 - PAVEMENT RESTORATION FOR MONUMENT ASSEMBLY INSTALLATIONS

THE FOLLOWING QUANTITY IS PROVIDED FOR PAVEMENT RESTORATION FOLLOWING INSTALLATION OF ITEM 604 MONUMENT ASSEMBLIES.

ITEM 301 ASPHALT CONCRETE BASE, PG64-22 _____ CU. YDS.[CU. METERS]

THE ABOVE QUANTITY IS BASED ON A 301 THICKNESS OF _____ INCHES [MM] AND A WIDTH OF TWO FEET [0.6 METERS] AROUND THE PERIMETER OF THE MONUMENT ASSEMBLIES.

PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

Designer Note: Use this note whenever Item 604 Monument Assembly is specified and will require pavement restoration not otherwise covered in the plans. Include 301 thickness used in the quantity calculations. Add additional items such as 448, or 609 when they are needed for repair. Revise note if a different method of calculation was used to determine the pavement restoration quantity.

ENVIRONMENTAL

NUMBER	NAME
V101	Contractor's Use of ODOT Right-of-Way
V102	Stream Channel Excavation
V103	Archaeological Sites Adjacent to Right of Way
V104	Temporary Construction Fill

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V101 - CONTRACTOR'S USE OF ODOT RIGHT-OF-WAY

Designer Note: This note should be used when waste and borrow areas are shown on the plans. The note should be edited to include one note from each of the following sets.

Note V101A1 should be used when waste and borrow areas shown on the plans have been investigated for water quality requirements (e.g., wetlands, 404/401 permits, etc.).

Note V101A2 should be used when the contractor is required to hire an environmental consultant to investigate water quality requirements.

Note V101B1 should be used when waste and borrow areas shown on the plans have been investigated for archeological requirements. Use this note in conjunction with note V103, Archeological Sites Adjacent to Right-of-Way when there are archeological sites on the plan.

Note V101B2 should be used when the Contract Documents require a cultural resource investigation be done by the Contractor. Contact the Office of Environmental Services for guidance on using this note. Use this note in conjunction with note V103, Archeological Sites Adjacent to Right-of-Way.

Note V101C1 should be used when waste and borrow areas shown on the plans have been determined not to be in FEMA floodplain zone.

Note V101C2 should be used when the waste and borrow areas shown on the plans have been determined to be in FEMA floodplain zone. The contractor is required to obtain FEMA clearances.

Note V101D1 should be used when there might be suspect borrow areas having contaminated soil or water.

V101A1

THE WASTE AND BORROW AREAS SHOWN IN THE PLANS HAVE BEEN INVESTIGATED BY AN ECOLOGICAL ENVIRONMENTAL CONSULTANT. IT IS NOT NECESSARY TO HIRE AN ECOLOGICAL ENVIRONMENTAL CONSULTANT AS PER CONSTRUCTION AND MATERIAL SPECIFICATION 105.16 TO INVESTIGATE THESE AREAS. ALL OTHER REQUIREMENTS OF CMS 105.16 APPLY.

V101A2

HIRE AN ECOLOGICAL ENVIRONMENTAL CONSULTANT TO CERTIFY THAT THE PROPOSED BORROW AND WASTE OPERATIONS WILL NOT IMPACT "THE WATERS OF THE UNITED STATES" OR A ISOLATED WETLAND(S) OR TO OBTAIN AN U.S. ARMY CORPS OF ENGINEERS 404 PERMIT AND AN OHIO EPA 401 PERMIT, PER THE REQUIREMENTS OF CONSTRUCTION AND MATERIAL SPECIFICATIONS 105.16.

V101B1

THE WASTE AND BORROW AREAS SHOWN IN THE PLANS HAVE BEEN INVESTIGATED BY A CULTURAL RESOURCE CONSULTANT. IT IS NOT NECESSARY TO HIRE A CULTURAL RESOURCE CONSULTANT AS PER CONSTRUCTION AND MATERIAL SPECIFICATION 105.16 TO INVESTIGATE THESE AREAS. ALL OTHER REQUIREMENTS OF CMS 105.16 APPLY.

V101 - CONTRACTOR'S USE OF ODOT RIGHT-OF-WAY (CONTINUED)

V101B2

HIRE A CULTURAL RESOURCE ENVIRONMENTAL CONSULTANT PER CONSTRUCTION AND MATERIAL SPECIFICATIONS IN 105.16 TO PERFORM A CULTURAL RESOURCE INVESTIGATION FOR ALL WASTE AND BORROW AREAS OUTSIDE THE RIGHT-OF-WAY LIMITS.

V101C1

THE WASTE AND BORROW AREAS SHOWN ON THE PLANS HAVE BEEN INVESTIGATED AND ARE NOT IN THE FEMA FLOODPLAIN ZONE.

V101C2

THE WASTE AND BORROW AREAS SHOWN ON THE PLANS ARE WITHIN FEMA FLOODPLAIN ZONE. OBTAIN THE REQUIRED APPROVAL FROM U.S. ARMY CORPS OF ENGINEERS BEFORE WORKING IN THESE AREAS.

V101D1

THE CONTRACTOR SHALL NOT BORROW FROM A SITE KNOWN OR SUSPECTED OF HAVING CONTAMINATED SOIL OR WATER.

V102 - STREAM CHANNEL EXCAVATION

STREAM CHANNEL EXCAVATION WITHIN "WATERS OF THE US" IS SUBJECT TO US ARMY CORPS OF ENGINEERS (USACE) REGULATORY JURISDICTION AND WILL REQUIRE AUTHORIZATION BY THE USACE VIA THE WATERWAY PERMITTING PROCESS (404/401). IN ACCORDANCE WITH THE APPLICABLE WATERWAY PERMITS (404/401) STREAM CHANNEL EXCAVATION CAN NOT EXCEED THE QUANTITIES AND/OR SURFACE AREA THAT HAS BEEN PERMITTED. THE WATERWAY PERMITS ARE ATTACHED TO THE CONSTRUCTION PLANS AS SPECIAL PROVISIONS AND WILL BE AVAILABLE IN THE PROJECT CONSTRUCTION OFFICE.

TAKE ALL PRECAUTIONS NECESSARY TO PREVENT ANY INCIDENTAL DISCHARGES ASSOCIATED WITH THE EXCAVATION AND HAULING OF MATERIAL FROM THE STREAM CHANNEL. THIS PERTAINS TO ANY EXCAVATION OPERATIONS SUCH AS, FOUNDATION PIER OR ABUTMENT EXCAVATION, CHANNEL CLEANOUT, EXCAVATION FOR ROCK CHANNEL PROTECTION AND REMOVAL OF ANY TEMPORARY FILL ASSOCIATED WITH CONSTRUCTION OPERATIONS.

Designer Note: The need for the above note, together with its final wording, must be concurred with by the Office of Environmental Services prior to inclusion in a plan.

V103 - ARCHAEOLOGICAL SITES [HISTORIC PROPERTIES] ADJACENT TO RIGHT OF WAY

AS A RESULT OF A CULTURAL RESOURCE SURVEY, ARCHAEOLOGICALLY [OR HISTORICALLY] SENSITIVE AREAS HAVE BEEN IDENTIFIED ADJACENT TO THE PROPOSED RIGHTS OF WAY. THESE ARCHAEOLOGICALLY [OR HISTORICALLY] SENSITIVE AREAS HAVE BEEN DENOTED ON MAPPING THAT IS AVAILABLE FOR REVIEW AT THE OHIO HISTORIC PRESERVATION OFFICE (567 EAST HUDSON AVENUE, COLUMBUS, OHIO 43211), ODOT'S OFFICE OF ENVIRONMENTAL SERVICES, AND THE DISTRICT ____ OFFICE (LOCATION). THESE IDENTIFIED AREAS CANNOT BE USED FOR BORROW AREAS, WASTE, OR ANY OTHER PROJECT RELATED ACTIVITIES, SUCH AS TEMPORARY OFF SITE STORAGE OR FIELD OFFICE PLACEMENT, PORTABLE PLANT LOCATIONS, ETC., UNLESS PRIOR APPROVAL IS OBTAINED, IN WRITING, FROM THE OHIO HISTORIC PRESERVATION OFFICE IN COLUMBUS.
Designer Note: Use this note when there are known archaeological sites or historically significant properties on a project that will be protected as a result of a formal agreement between ODOT and the Ohio Historic Preservation Office.

V104 - TEMPORARY CONSTRUCTION FILL

ANY TEMPORARY CONSTRUCTION ACCESS FILL WITHIN "WATERS OF THE US" (EG., STREAMS, WETLANDS) SUBJECT TO US ARMY CORPS OF ENGINEERS (USACE) REGULATORY JURISDICTION WILL REQUIRE AUTHORIZATION BY THE USACE PRIOR TO THE PLACEMENT OF TEMPORARY FILL VIA THE WATERWAY PERMITTING PROCESS (404/401). ALL TEMPORARY CONSTRUCTION ACCESS FILLS SHOULD BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE WATERWAY PERMITS (404/401) AND SHOULD NOT EXCEED THE QUANTITIES AND/OR SURFACE AREA OF TEMPORARY FILL THAT HAS BEEN PERMITTED. ADDITIONALLY, SOME TEMPORARY CONSTRUCTION ACCESS FILLS MAY ONLY BE ALLOWED IN SPECIFIC LOCATIONS, PER THE WATERWAY PERMITS(404/401) AND/OR OTHER ENVIRONMENTAL COMMITMENTS, AND SHOULD BE CONSTRUCTED IN ACCORDANCE WITH ANY SUCH LOCATIONAL RESTRICTIONS TO AVOID ENVIRONMENTALLY SENSITIVE AREAS. THE WATERWAY PERMITS ARE ATTACHED TO THE CONSTRUCTION PLANS AS SPECIAL PROVISIONS AND ARE BE AVAILABLE IN THE PROJECT CONSTRUCTION OFFICE.

Designer Note: The need for the above note, together with its final wording, must be concurred with by the Office of Environmental Services prior to inclusion in a plan.

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