

DATE: May 20, 2015

SUBJECT: Revisions to the Minimum Use Driveway Highway Occupancy Permit Application for Unconventional Oil and Gas Development Drilling and Fracking Operations

TO: District Executives

FROM: Richard N. Roman, P.E., Director
Bureau of Maintenance and Operations

Richard Roman /s/

This is a time neutral Strike-off Letter (SOL) to provide design clarifications and implement minor revisions to the driveway template provided on the Minimum Use Driveway Highway Occupancy Permit (HOP) Application for Unconventional Oil and Gas Development Drilling and Fracking Operations. These changes provide clarification on the design of the driveway with regards to drainage requirements within the right-of-way and address comments regarding the proper warning signs that are to be erected in advance of the driveways. The following changes have been made to the Minimum Use Driveway HOP Application and driveway template:

- A drainage pipe is now depicted under the driveway.
 - Added dimension labels indicating the 20' minimum extension of the drainage pipe on either side of the driveway.
 - Included the associated note "DRAINAGE PIPE, IF NEEDED DUE TO PRESENCE OF A DITCH LINE. PROVIDE PROPER FILL SLOPES OVER PIPE, SEE NOTE 2."
- Replaced the W25-5 Construction Entrance Ahead Sign with the W11-10 Truck Crossing Sign

These changes are effective immediately with the issuance of this letter.

Should you have any questions, please contact Michael Dzurko, Highway Occupancy Permits Program Manager, at 717-783-6080.

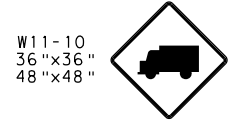
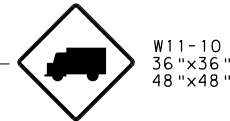
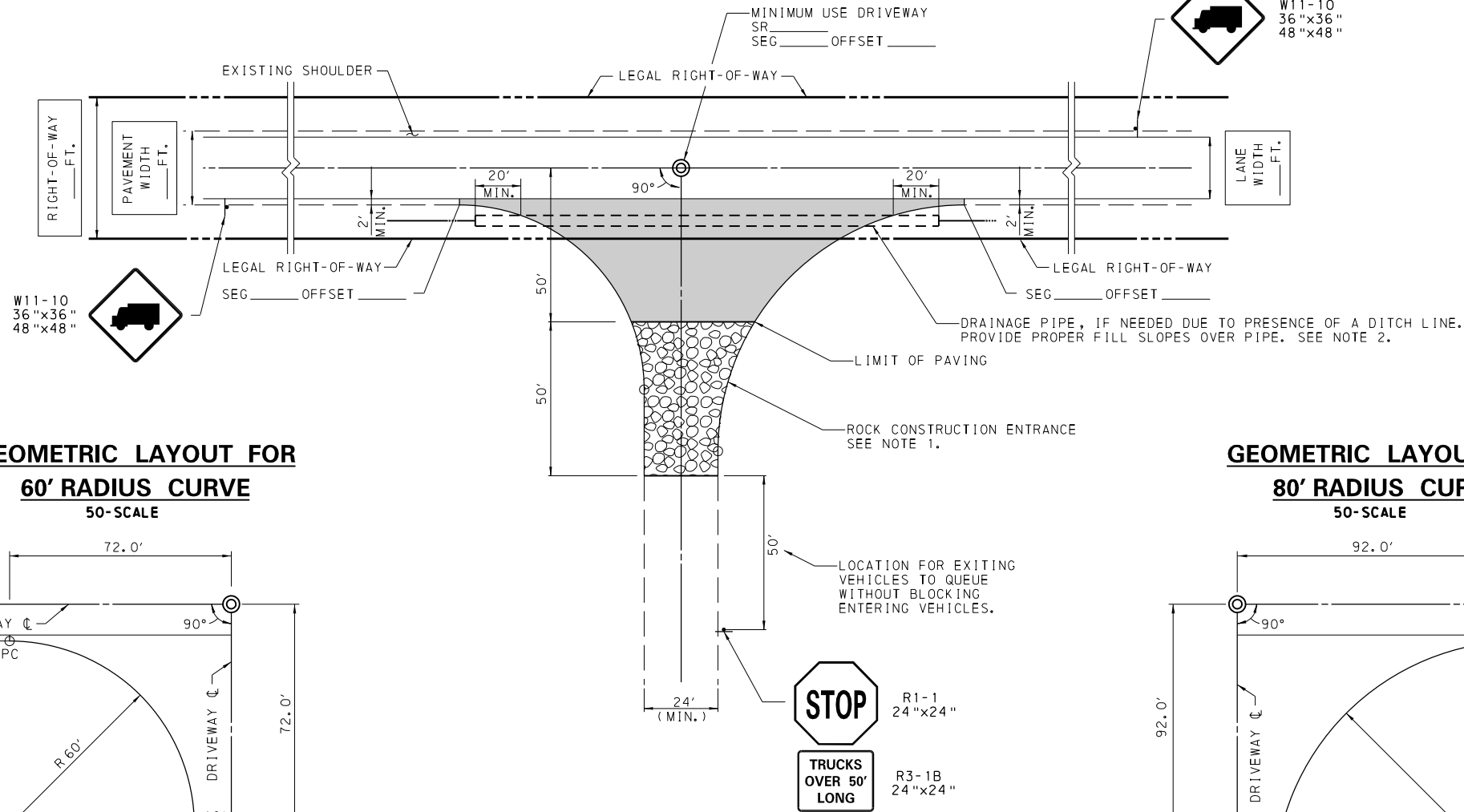
Attachments

4940/MJD/hmq

cc: Assistant District Executives – Maintenance
Maintenance Service Executives
District Traffic Engineers
Highway Occupancy Permit Managers
Steven Roth, Assistant Counsel, Office of Chief Counsel
Eric Jackson, Assistant Counsel in Charge, Office of Chief Counsel
Glenn Rowe, P.E., Division Chief, Highway Safety and Traffic Operations, BOMO
Robert Pento, P.E., Traffic Engineering and Permits Manager, BOMO
Michael Dzurko, Highway Occupancy Permits Program Manager, BOMO
Steven Koser, P.E., Section Chief, Pavement Testing Asset Management, BOMO
Halley Cole, P.E., Chief, Pavement Management Unit, BOMO
Melody Matter, P.E., PTOE, Marcellus Shale Consultant, BOMO
RSC Read File

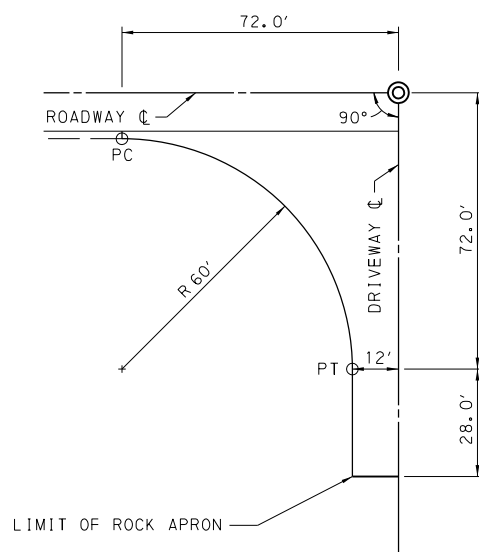
MINIMUM USE DRIVEWAY PLAN

50-SCALE



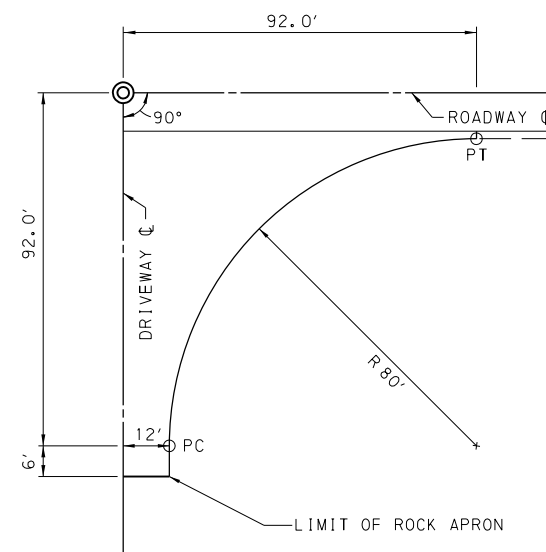
GEOMETRIC LAYOUT FOR 60' RADIUS CURVE

50-SCALE



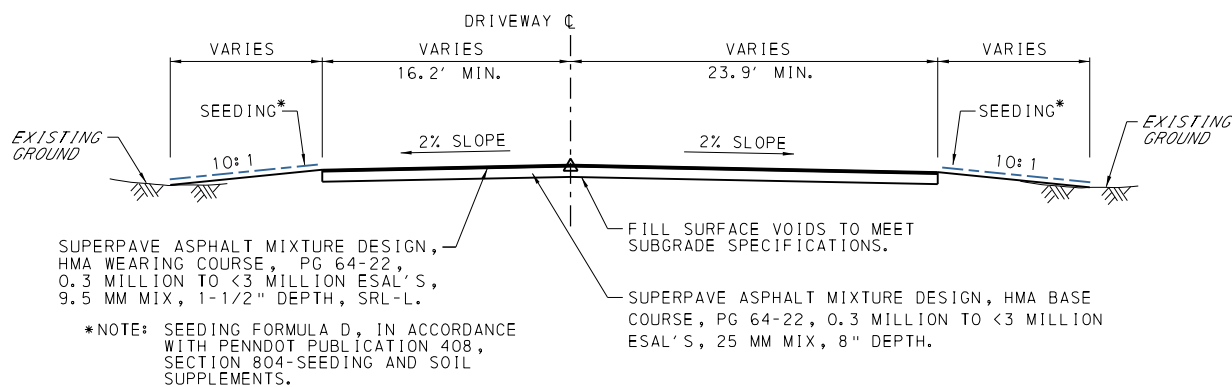
GEOMETRIC LAYOUT FOR 80' RADIUS CURVE

50-SCALE



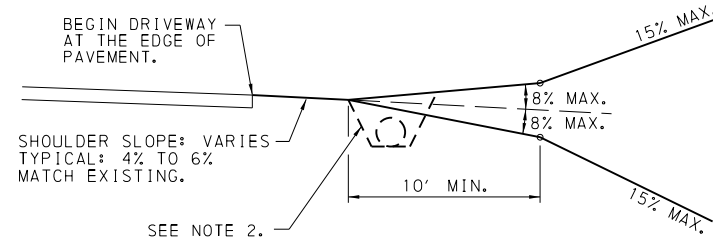
DRIVEWAY TYPICAL SECTION

NTS



DRIVEWAY PROFILE

NTS



LEGEND

- = DRIVEWAY PAVEMENT
- = ROCK CONSTRUCTION ENTRANCE (AASHTO NO. 1 COARSE AGGREGATE)

NOTES

1. ROCK CONSTRUCTION ENTRANCE TO BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN STANDARDS FROM PENNDOT PUBLICATION 72M, STANDARDS FOR ROADWAY CONSTRUCTION, RC-77M, WITH EXCEPTIONS DUE TO THE GEOMETRIC DESIGN OF THE DRIVEWAY.
2. DRIVEWAY SHALL BE CONSTRUCTED SO AS NOT TO IMPAIR DRAINAGE WITHIN THE RIGHT-OF-WAY, ALTER THE STABILITY OF THE IMPROVED AREA, OR CHANGE THE DRAINAGE OF ADJACENT AREAS. WHERE A DRAINAGE DITCH OR SWALE EXISTS, INSTALL ADEQUATE PIPE UNDER THE DRIVEWAY IN ACCORDANCE WITH PENNDOT PUBLICATION 72M, RC-30M AND PUBLICATION 408, SECTION 601-PIPE CULVERTS. DRAINAGE PIPE UNDER DRIVEWAYS SHALL MATCH EXISTING PIPE SIZE OR BE A MINIMUM OF 15" IN DIAMETER, WHICHEVER IS GREATER.
3. IF THE DRIVEWAY DESIGN IS ANTICIPATED TO CAUSE AN INCREASE IN FLOW RATE OR FLOW VELOCITY OF WATER ONTO THE HIGHWAY OR INTO DEPARTMENT DRAINAGE FACILITY, A DRAINAGE IMPACT REPORT (IN ACCORDANCE WITH PUBLICATION 282, HIGHWAY OCCUPANCY GUIDELINES) SHALL BE SUBMITTED FOR REVIEW TO THE APPROPRIATE PENNDOT ENGINEERING DISTRICT CONCURRENTLY WITH THE HIGHWAY OCCUPANCY PERMIT APPLICATION.
4. TRAFFIC CONTROL DURING CONSTRUCTION OF THE SITE DRIVEWAY SHALL BE IN ACCORDANCE WITH PENNDOT PUBLICATION 213, TEMPORARY TRAFFIC CONTROL GUIDELINES.
5. TRAFFIC CONTROL DURING NORMAL DRILLING AND HYDROFRACKING OPERATIONS SHALL INCLUDE AT A MINIMUM:
 - A. INSTALL TRUCK CROSSING SIGN (W10-11) ON THE STATE HIGHWAY IN ADVANCE OF THE SITE DRIVEWAY IN ACCORDANCE WITH DEPARTMENT STANDARDS.
 - B. PROVIDE A FLAGGER WITHIN THE DRIVEWAY APPROACH TO CONTROL ENTERING AND EXITING SITE TRAFFIC WITHOUT IMPAIRING THE FREE MOVEMENT OF NORMAL HIGHWAY TRAFFIC.
6. NO STAGING FOR OPERATIONS WILL OCCUR IN THE DEPARTMENT RIGHT-OF-WAY.
7. IMMEDIATELY REMOVE ANY MUD AND/OR DEBRIS THAT HAS BEEN TRACKED ONTO DEPARTMENT ROADWAYS.
8. REPAIR, WITHIN 24 HOURS, ANY DAMAGE TO DEPARTMENT ROADWAYS CAUSED AS A RESULT OF VEHICLES USING THE DRIVEWAY.
9. PROVIDE TYPE R4 ROCK (OR DEPARTMENT APPROVED MATERIAL) IN AREAS WHERE WHEELS TRACK OFF THE DRIVEWAY TO A MAXIMUM WIDTH OF 3'. IF SHOULDER DAMAGE OCCURS TO STATE HIGHWAY, THE DEPARTMENT CAN DIRECT 100' OF SHOULDER TO BE INSTALLED PER THE REGULATIONS IN TITLE 67, CHAPTER 441.8(n) OF THE TRANSPORTATION CODE.
10. SIGHT DISTANCE VALUES AT THE PROPOSED DRIVEWAY, FOR THE THREE CONDITIONS INDICATED ON PENNDOT FORM M-950S, SHALL MEET OR EXCEED THE REQUIREMENTS PER THE REGULATIONS IN TITLE 67, CHAPTER 441.8(h) OF THE TRANSPORTATION CODE.

MINIMUM USE DRIVEWAY DESIGN FOR UNCONVENTIONAL GAS DRILLING AND HYDROFRACKING WELL SITES

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION

COUNTY : _____

TOWNSHIP/BORO. : _____

ROUTE NO. : _____

SEG./OFF. : _____

APPLICANT/OWNER : _____

ADDRESS : _____

POST OFFICE : _____ ZIP CODE : _____