Applicant Checklist For Low, Medium & High Volume Driveways and Local Roads Highway Occupancy Permit

The following checklist has been prepared to aid in the preparation and submission of plans for a Highway Occupancy Permit Application other than a minimum use driveway application. These guidelines are not all encompassing nor are they applicable to every application. (References: 67 Pa. Code, Chapter 441; PennDOT Publication 282; and as noted below).

Genera	al
	Project narrative Letter of review/acknowledgement of proposed development from Municipality (Ch. 441.3 (j)) Land Use Questionnaire (form M-950MPC) is completed & attached (Sections 619.2 and 1105 of the Municipal Planning Code; Pub. 282, Ch. 3.3) Proof of submission to PHMC (MOU between PA State Historic Preservation Office and PennDOT) E&S Plan approved by the County Conservation District Estimated cost of work within Legal Right-of-way (Pub. 282, Ch. 3.6) Meeting minutes provided for all previous correspondence with PennDOT Within limits of planned PennDOT project Verification of PUC coordination (Title 66 of the PA Consolidated Statutes, Section 2702 (a)) TIS/TIA required/approved/signed/sealed Signal plans/traffic signal study required/approved School Zone speed reduction permit required/approved Bridge/structure review/approval Access Covenant (form M-946) required/provided (Ch. 441.6(16)) Drainage Release required/provided (Ch. 441.3(h)) Permit to be recorded at the County Recorder of Deeds office (Pub. 282) Indemnification required/provided Insp. reqs: PennDOT spot/full time or consultant insp., cost considerations, reimbursement and invoicing.
	Correct fee received (Ch. 441.4) Permit processing, review, and inspection fees required/submitted (Ch. 441.4) Check is more than 6 months old (Ch. 441.4) Application submitted in the name of property owner (Ch. 441.3(b) and 441.5(b)) Copy of the deed, sales agreement, or lease of property (> 15-year lease) is attached (Ch. 441.3(e)(6)) M-950 CFO submitted if Applicant not fee owner of property Agent Authorization (form M-950 AA) required/provided Access correctly classified as low/med/high volume with (Ch. 441.1 and Pub. 282) Average daily traffic and broken down by type (Ch. 441.3(i)(7)) Business Partner ID completed on application Existing driveways to be removed indicated on application All work proposed within ROW indicated on application
	Applicable general permit notes provided Typical Section notes provided Applicable pavement marking notes provided Applicable MPT notes provided Guiderail removal note required/provided R/W reference note provided (Pub. 14M, Section 2.3.(A)1) ADA Compliance note provided for pedestrian facilities beyond R/W Applicable drainage notes provided Applicable utility notes provided

PUB 282 (8-18) C1-2

Plan Presentation

	North arrow
	Scale bar, plan view: 1"=50' or less (1"=50' and 25' preferred); details: 1"=20' or less
	Existing pavement, travel lanes, and shoulders (type & width) (Ch. 441.3(i))
	Location & type of existing/proposed highway features (guide rail, curb, drainage, signage, etc.) (Ch. 441.3(i))
	All affected utilities (all existing & proposed, aboveground & subsurface) (Ch. 441.3(i))
	Adequate topo along SR and frontage (road edges, buildings, trees, curb, sidewalks, parking, etc.) (Ch. 441.3(i))
	Dimension proposed driveway and SR if applicable (Ch. 441.3(i)(4))
	Show existing driveways (Ch. 441.3(i)(4))
	Show and dimension tapers (lane, shoulder, driveway, etc.) (Ch. 441.3(i)(4))
	Driveway angle dim. to SR centerline/as close to 90 degrees as possible (Ch. 441.8(b)(1))
	Show Limits of approved paving in plan (Ch. 441.3(i)(4))
	SR and Segment/Offsets provided and correct (Pub. 14M)
	Centerlines and stationing provided for SR and driveways (Pub. 14M)
	All relevant property owners/lines shown (Ch. 441.3 (i)(5))
	Limits of work indicated
	Right-of-Way lines (both sides & width) & type (Legal, Limited Access, etc.) (Pub. 14M, Ch. 3.5.A.1)
	Distance to nearest driveway & intersection to left/right for both sides of SR (Ch. 441.3.)
	List ADT's for each separate driveway (Ch. 441.3(i)(7))
	Posted speed limit provided on plans (Pub. 14M)
	Posted speed limit is correct (Pub. 14M)
	HOP application number referenced on plan
	Location map provided on the plans (Pub. 14M)
	Appropriate RC & TC standards/latest date ref. (Pubs 72M, 111; Ch. 441.6 (3))
	PA One-Call serial number provided (Ch. 441.6(2)(i)(B))
	Plans/reports signed and sealed by PE/PLS/RLA (49 Pa Code, Ch. 37.59)
	Plans signed and sealed by PLS
	No references to Preliminary plan
	Overall site plan indicating internal traffic patterns (Ch. 441.3(i))
ш	Red-Lined plans to be returned
Access	s Configuration
	Number of driveways acceptable (Ch. 441.7(e))
	Justification for more than two (2) driveways (Ch. 441.7(e))
	Meet Pub. 282, Subchapter 2.4 requirements
	10' tangent distance between end of driveway radius & intersection radius (Ch. 441.8(c)(1))
	20' tangent distance in curbed area between driveway & intersection (Ch. 441.8(c)(2))
	30' tangent distance in uncurbed area between driveway & intersection (Ch. 441.8(c)(2))
	50' between driveways and ramp of speed change lane (Ch. 441.8(I))
	Permanent curb defines driveways when multiple driveways are less than 50' apart (Ch. 441.8(g))
	Aligns w/ driveways/road/lanes across highway (Ch. 441.7(c))
	Classified correctly as local road vs. driveway (Ch. 441.7(d))
님	Driveway not to encroach on adjacent property frontage (Ch. 441.8(d))
	Returns offset per 3R criteria (Pub. 13M, page 1-41)
	Sufficient for trucks/largest vehicle (Ch. 441.8(a)(2))
	Any truck restrictions per Title 75 PA. C.S. §4908
	Radius returns extend full quadrant (Pub. 282, Ch. 2.4)
	Restricted driveways – radii designed to discourage wrong way movements (Ch. 441.8(a)(2))
	16' min. lane width if channelization island
	Driveway throat length (Pub. 282, Subchapter 2.4)
	PC/PT/break points identified/dimensioned
	Contours needed/provided (Pub. 14M, Ch.2.6)
	Spot elevations along radii at 10' intervals

	Local road width in accordance with Pub. 70M Local road radius returns in accordance with Pub. 70
1 00000	Drofile
	Maintains SR travel lane and shoulder cross slope across the driveway (441.8(i)(4) and Figure 1) Difference between cross slope of roadway shoulder and grade of driveway does not exceed 8% (Ch. 441.8(i)(4))
Sight [Distance
	Available and minimum requirements indicated (Ch. 441.3(i)(6)) Meets 441 minimum safe stopping sight distance (Ch. 441.8(h)(2)(iv)) Driveway location maximizes sight distance Justification provided for sight distance values that are less than the safe sight distance values Parked cars obstruct sight line for exiting vehicles? (Ch. 441.8(h)) Embankment removal – sight line profile provided
	Minimum pavement thickness of 4 inches provided within R/W (Ch. 441.8(k)) Pavement design provided / min depth requirements met (Pub. 242) Utilize SuperPave/PennDOT descriptions Pavement design approved by PennDOT Pavement history obtained/prop. match ex. Concrete pavement is at least 4 feet wide & dowel rods are used to connect to existing (Pub. 72M, RC-20M) Sawcut full depth pavement noted Open cuts are prohibited in bituminous pavement < 5years old and in all concrete pavement Leveling/ cross-slope correction shown if applicable (Pub. 13M, Ch. 1.5) Minimum 2% cross slopes on widened SR thru and auxiliary lanes (Pub. 13M, Ch. 1.5) Trench restoration detail with pavement design (Pub. 13M, Ch. 1.5) Typical roadway widening detail provided (Pub. 13M, Ch. 1.5) Min. 2' pavement width at tie-in point Seal joints with PG 64-22 Bituminous tack coat indicated between each layer Bottom of subbase at or below existing for SR widening Pavement base drain or combination storm/underdrain provided (Pub. 13M, Ch. 1.5) Undercutting note provided if CBR values indicate subgrade is unsuitable
	Centerline (Pub. 14M, Ch. 10)

	Adjustment profile required Milling required Overlay required Permitted Oversize Vehicles considered in the design of roadway/intersection improvements
Should	
	Full width overlay provided within widening limits (Pub. 282, Ch. 7.7) Turn lane lengths, shifting tapers, & bay tapers dimensioned Transverse gore markings required and labeled (Pub. 111, TC-8600) Turn lane lengths = required length in TIS/analysis Shifting tapers per Pub. 111, TC-8600 Bay tapers per Pub. 111, TC-8600 Offset (opposing) left turn lanes 12' lane widths desirable; 10' min (11'min if trucks) Hour glass effect (provide two-way center left-turn lane) SR profile and cross sections provided every 50' or contours and spot elevations every 20'
Right 1	Turn / Deceleration Lanes 100' (75' in low speed, high traffic area) bay tapers Turn lane lengths, bay taper lengths, & lane widths dimensioned 14' curbed lanes; 12' uncurbed lanes with 3R shoulder Turn lane lengths/bay taper lengths = required lengths in TIS/analysis SR profile and cross sections provided every 50' or contours and spot elevations every 20'
Curb	Reference RC-64M and current approval date (Pub. 72M, RC-64M) 5' curb end taper with a 0" reveal at finish grade Provide top/bottom curb elevations every 10'/20' Curb ramps if sidewalk; specifies RC-67M and type (Pub. 72M, RC-67M) Dimension at POT, POC, PT, PC, PCC (Pub. 14M, Ch. 2.6) Eliminate curb along taper if no adjacent curb 4 foot flat area behind curb sloped at 2% in same direction as surrounding terrain Label/dimension depressed curb (Pub. 13M, Ch. 6.11(B)) Min. sidewalk width is 5' or 4' with 5'x5' passing areas every 200' (Pub. 72M, RC-67M)
Mediar	Driveway medians provided for med/high vol. (Pub 282, Subchapter 2.4) Dimensions of islands (lengths, radii, offsets, etc.) provided (Ch. 441.3(i)(4)) Type of curbing and proposed material provided (Ch. 441.3(i)(4)) Flexible delineators/hazard markers per Pub. 111, TC-8604 Medians/islands offset 4' behind edge/curb line (DM-2) Island size sufficient per AASHTO Geometric Design of Highways and Streets

	Cross sections provided for SR improvements Match ex but with min. 2% widening slope – tangent roads (Pub. 13M, Ch. 1.2) Match existing superelevated slope – curved roads (Pub. 13M, Ch. 1.5) Centerline and breakpoint elevations provided (Pub. 13M, Ch. 1.5) Existing and proposed cross slopes labeled (Pub. 13M, Ch. 1.5) Cut/fill slopes provided/labeled/acceptable (Pub. 13M, Ch. 1.5) Fill slope benching/detail required/provided (Pub. 13M, Ch. 1.5) Legal/Required ROW locations shown (Pub. 13M, Ch. 1.5) Grading outside of ROW; ROW or easements obtained Full-depth pavement & mill/overlay locations shown (Pub. 13M, Ch. 1.5) Pavement base drain shown (Pub. 13M, Ch. 1.5) Superelevation transition notes provided (Pub. 13M, Ch. 2.13) Superelevation transitions labeled & are in accordance with Pub. 13M, Ch. 2.13 50' intervals or 25' intervals in non-uniform areas (Pub. 14M, Ch. 2.7) Dimensioned from centerline
Claus!	_
	Location and size/designation (Pub. 236) of all relocated and proposed signs shown (Ch. 441.3(i)) All existing signs shown (Ch. 441.3(i)) Existing signs to be relocated or removed labeled (Ch. 441.3.i) Details provided for non-standard signs (Ch. 212.B.101) Stop (R1-1) sign required R3-7 or R3-8 lane use control signs required for auxiliary lanes (Pub. 236) R4-7 and OM1-3 signs for medians (Pub. 236) Do Not Enter (R5-1) & One Way (R6-1L and R6-1R) signs on sign post on each side of access (6 signs) (Pub. 236) No Left Turn (R3-2) signs, near right and far left, entering and exiting (Pub. 236)
Pavem	nent Markings
	2 1 1 3 3 3
	enance and Protection of Traffic Sequence/narrative referencing PATA figures (Ch. 441.3(f)) TCP provided if necessary Detour required/approved

PUB 282 (7-17) C1-6

☐ Located near signalized intersection (note provided)

PATA figures attached in EPS Drop-off/safety slope protection note or detail provided PATA figure 10a referenced in conjunction with PATA 7 Road Users Liquidated Damages
Required per Pub. 13M, Ch. 12 Impact attenuators provided/shown/correct (Pub. 13M, Ch. 12.8) Can guiderail be eliminated by regrading? (Pub. 13M, Ch. 12) Substandard guiderail (Pub. 408) Weathering steel guiderail not permitted
Dimension to physical centerline (Pub. 14M, Ch. 3.5.A.1) Dedication to PennDOT required (Pub. 14M, Ch. 3.0.H.) R/W plans approved by PennDOT Drainage/Slope/Temporary construction easements required (Pub. 14M, Ch. 3.1(N), (O), & (R)) Convert required R/W to legal R/W on HOP plans Deeds provided with R/W submission Additional R/W necessary for auxiliary lane (Ch. 441.8(j)) Conveyance of R/W form (M-950 D1) used Acquisition of R/W from adjacent owners required Points of transition identified on the plan (Pub. 14M, Ch. 3) Legal verification of easements related to HOP provided and referenced in general notes
Form M-950R1 required/provided (Pub. 282, Subchapter 2.6) Modification to adjacent frontage (installation of auxiliary lane) Approval letter / plan signature required/provided Modification of adjacent driveway Separate application for impacted driveway required/provided (Ch. 441.3(b)) Impacted driveways brought up to code (Ch. 441)
10" max distance between push button and edge of landing area (Pub. 13M) Pedestrian study required (Pub. 149, Ch. 19) Standard notes provided Build volumes match analysis

PUB 282 (7-17) C1-7

□ 3.5 ft/s walking speed used in ped clearance calculations (Pub. 46, Ch. 4.3)

	Width of crossing measured from curb to curb (Pub. 46, Ch. 4.3)
	Countdown timers
	4' pedestrian pathway provided (Pub. 13M)
	Intersection alignment
	Mast arm location, size in 5 ft increments, 65 ft max
	Separate mast arms provided for each approach (Pub. 149, Ch. 8)
	Mast arm allows for left-turn signal placement (Pub. 149, Ch. 6)
	Support location in accordance with Pub 149 offsets (Pub. 149, Ch. 5)
	Controller cabinet shown on plan (Pub. 14M, Ch. 10)
	, ,
	Signal equipment within right-of-way or easement
	Overhead street name signs use Clearview 1W, 2W, or 3W font (Pub. 236)
	Street name, not development name, used on overhead street name signs (Pub. 236)
	Proper abbreviations used on overhead street name signs (Pub. 236)
	Permit General Notes
	Final conditions shown on the Permit Plan (Pub. 14M, Ch. 10)
	Revisions shown (Pub. 14M, Ch. 10)
	Plan Legend complete and accurate (Pub. 14M, Ch. 10)
	Timing diagram completed and correct
	"No Turn on Red" required
	Right-of-way lines shown in accordance with Pub. 14M
	Right-of-way lines labeled as "Legal Right-of-way line" (Pub.14M)
	Traffic signal easements labeled as "Legal Traffic Signal Easement" (Pub. 14M)
	Permit Plan updated to meet current field conditions
	Speed limits and grades provided on plan (Pub. 14M, Ch. 10)
	Distances to the nearest signal indicated on plan (Pub. 14M, Ch. 10)
	Sign chart (plan symbol, series number, size, and sign name) provided/correct (Pub. 236)
	H, I, O, Q, or U not used for sign plan symbol
	Pushbutton sign corresponds with ped signal head (Pub. 236)
	Preemption provided (Pub. 149, Ch. 10)
	Preemption note (Pub. 149, Ch. 10)
_	
ADAC	ompliance
	Upgrade ADA if pedestrian path is changed (Pub. 13M, Ch. 6)
	Maintain 4' sidewalk width (Pub. 13M, Ch. 6)
	Proposed sidewalk > 100' must meet current standards (Pub. 13M, Ch. 6.3.B)
	Upgrade curb ramp w/in 15' of proposed sidewalk (Pub. 13M, Ch. 6.3.B)
	Upgrade curb ramps w/in 5% of proposed sidewalk (>300') (Pub. 13M, Ch. 6.3.B)
	ADA access provided (Pub. 13M, Ch. 6.2.C)
	Pedestrian study required/approved (Pub. 13M, Ch.'s 6, 7, and 9, and MUTCD Section 4E)
	Proposed sidewalk limits are logical (Pub. 13M, Ch. 6.2)
	Relocate inlets within curb ramps (Pub. 13M, Ch. 6.10.D)
	Traffic Control accommodates pedestrians (Pub. 13M, Ch. 6.9.D.11)
	Technically Infeasible Form included/approved (Pub. 13M, Ch. 6.2.B.4)
	Cross-slopes do not exceed 2% (Pub. 13M, Ch. 6.5.A.5)
	Adequate plan details provided (Pub. 72, RC-67M)
	Inspection form provided/completed (Pub. 13M, Chapter 6.2.B)
	Accessible push-button
	Reserved property compliance (Pa Code, Title 75, Ch. 33, §3354)
D	mar Hardarda mar
	ge - Hydrology Design on Control Blog on suited for social of (Ch. 444-2(s), 8 Design on Insurant Bound Childelines, But. 200, Apr. B)
	Drainage Control Plan required/provided (Ch. 441.3(g) & Drainage Impact Report Guidelines, Pub. 282, App. B)
Ц	Location and type of existing/proposed drainage features (e.g., pipes, ditches, inlets, manholes, etc.) (Ch.
_	441.3(i))
	All drainage features shown with flow arrows

	Drainage Control Report signed and sealed (Drainage Impact Report Guidelines, Pub. 282, App. B) Pre- vs. post-development peak flow analysis Post < or = to Pre (Ch. 441.6(6); Pub. 584, Ch. 13.11.E) Possible to maintain/ not alter Dept. facilities (Ch. 441.6(6)) Application from municipality (Pub. 282, Ch. 7) Drainage release required (Ch. 441.3(h)) Narrative (Drainage Impact Report Guidelines, Pub. 282, App. B) Overall Site Development Plan (Drainage Impact Report Guidelines, Pub. 282, App. B) Pre/post drainage area plans (Drainage Impact Report Guidelines, Pub. 282, App. B) Proposed flow into/out of ROW consistent with existing grades/flow (Ch. 441.6(6)) Time of concentration (5 min. if pipe 30" or less) (Pub. 13M, Ch. 10) TC paths shown on drainage area plans Storm frequency correct (Pub. 13M, Ch. 10.6.E) Rational formula used for drainage areas up to 200 acres (Pub. 13M, Ch. 10.2.C) 'C' coefficients; curve numbers (Pub. 13M, Table 10.2.1) Rainfall intensity rate correct (Pub. 584, Ch. 7, Appendix A, Figures 7A.7 through 7A.16)
Drainac	ge - Inlets
	TG and invert elevations (Drainage Impact Report Guidelines, Pub. 282, App. B) Inlet drainage area plans (Drainage Impact Report Guidelines, Pub. 282, App. B) Not located in radius return (Pub. 72M, RC-45M) Inlet capacities (Pub. 13M, Ch. 10.3.A.7) Inlets not sumped Inlet spacing and location (Pub. 13M, Ch. 10.3.A.7) Flanking inlets at low points (Pub. 13M, Ch. 10.3.A.7) Not located in travel lane; convert to manhole or cap (Pub. 584, Ch. 13) Gutter capacity/spread (Pub. 13M, Ch. 10.3.A) Manholes not located in travel lane (Pub. 584, Ch. 13.10.A) Type/size indicated
Drainag	ge - Pipes
	1' minimum cover (Pub. 13M, Ch. 10.3.B.2) Pipe capacities analysis
	Minimum 18" pipe within ROW (Pub. 584, Ch. 13.11.E)
	Minimum 15" pipe under driveways (Ch. 441.8(i)(2))
	Minimum 0.35% slope
	2" drop across inlets (Pub. 13M, Ch. 10.3.B.2) Storm frequency correct (Pub. 13M, Ch. 10.6.E & Ch. 10.2.C)
	Cross pipe that is part of a system uses same design storm as remainder of system
	Pipe profiles provided (type, corrugations, length, slope, inverts, ground profile, min/max fill heights.) (Pub. 584 Ch. 9; Pub. 13M, Ch. 10; SOL 431-10-07)
	Pipe information provided on plan (size, slope, length, type) (Pub. 584; Pub. 13M, Ch. 10; SOL 431-10-07) Pipe nomenclature consistent with Pub. 13M, Ch. 10; SOL 431-10-07
	Downstream pipe analysis if increase flow (Drainage Impact Report Guidelines, Pub. 282, App. B)
	Combination storm sewer and underdrain pipe
	Culvert analysis; inlet/outlet control Pipe velocity, 3-8 fps
	Trench restoration detail
	Extension-same type, slope
	Misc. details Inspector required for trench backfill in pavement, sidewalk or shoulder (Pub. 408, Sec. 601)
	ge – Channels and Swales Typical swale section provided (Drainage Impact Report Guidelines, Feb 2004)

	Capacity analysis (Drainage Impact Report Guidelines, Feb 2004) Encroach upon shoulder/lane (Pub. 13M, Ch. 10.3.A.1) Flow across driveway acceptable; cross driveway pipe required Swale slope acceptable Grading details provided
Draina	ge – Storm Water Management Basins
	Detention basin analysis
	Does not point discharge toward State Highway
	Minimum 8 feet from ROW because of basin embankment requirements
Utilitie	S
	Separate application submitted (Pub. 16M)
	Updated Act 287 note
	Separate application for street lights (Pub. 16M)
	Existing utilities that may conflict with proposed construction are noted (Pub. 16M, Ch. 1)
	Acceptable pole location (Pub. 13M and Pub. 16M, Ch. 1)
	PennDOT fiber optic impacted
	Relocated utility positions/pole ID numbers required/provided
Waiver	Requests
	Alternatives considered (Ch. 441.5(e))
	Right-of-way correspondence/documentation (Ch. 441.5(e))
	Indemnification (Ch. 441.5(e))
	Waiver approval
	Design waiver request required