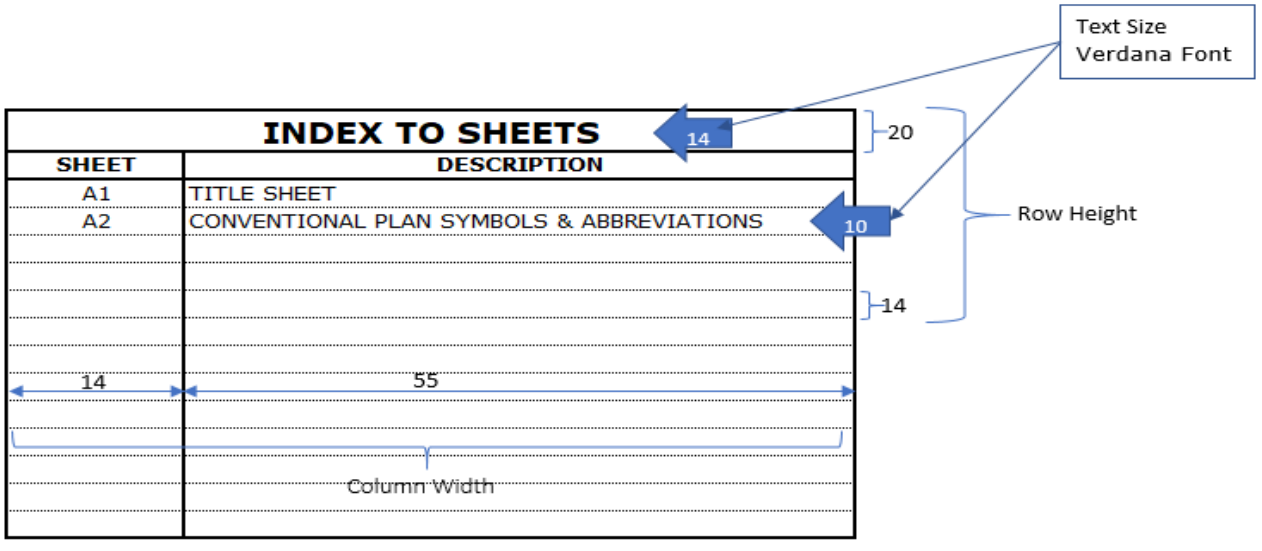
Notes to the Designer

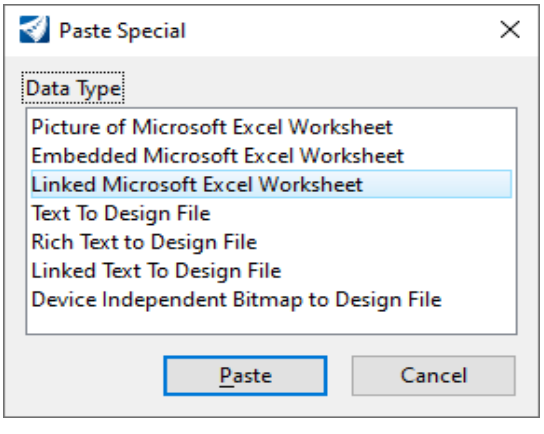
Updated June 2025

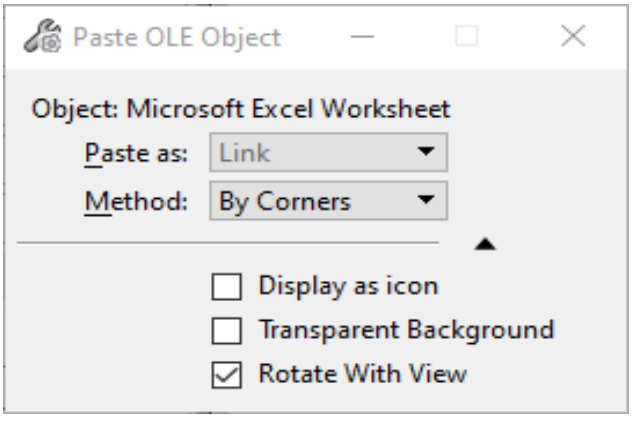
Conventional Plan Symbol & Abbreviation Sheets

- All graphics and text will be in the design model. Only use the sheet model for printing.
- Switch between models to find sheets 1 & 2
- Project specific symbols should be placed in the **Sheet 2** model
- Gray elements are construction elements and will not print
- Place continuation of Index of Sheets from excel spreadsheet in **Sheet 1** model



- Save the excel file; Copy the Index to Sheets
- Go to Drawing>Home>Selection>Paste>Paste Special
- Paste as an Linked Worksheet by Corners; Snap to gray box





Updates

- **July 2023**
  Updated border; updated to international seed file
  Updated symbols
- **June 2025**
  Updated fence with gate line

ABBREVIATIONS

	℄	centerline
	Δ	curve delta
	Ø	diameter
A	abut.	abutment
	ADT	average daily traffic
	aggr.	aggregate
	AH	ahead
	alt.	alternate
	appr.	approach
	asph.	asphalt
B	b.f.	both faces
	beg.	beginning, begin
	BK	back
	BM	bench mark
	BP	balance point
	br.	bridge
	brg.	bearing
C	CBC	concrete box culvert
	c-c	center to center
	clr.	clear
	CMP	corrugated metal pipe
	Co.	county
	col.	column
	conc.	concrete
	constr.	construction
	constr. jt.	construction joint
	cont.	continuous
	corr.	corrugated
	cr.	creek
	CS	point of curve to spiral
	ctrs.	centers
	CTSM	contingent sum
	culv.	culvert
D	decr.	decrement
	DHV	design hour volume
	DI	drop inlet
	dia. or D	diameter
	diag.	diagonal
	diaph.	diaphragm
	dist.	distance
	Dist.	district
	DLC	donation land claim
	dwg(s).	drawing(s)
E	E	east
	e	superelevation rate
	El. 94.066	elevation with number
	elev.	elevation
	emb.	embankment
	engr(s).	Engineer(s)
	EOP	edge of pavement
	EQ or eq.	equation
	ER	edge of road
	et al	and others
	et ux	and wife
	EW	edge of water
	exc.	excavation
	exp. jt.	expansion joint
	ext.	exterior
F	f.f.	fill face
	Fed.	federal
	FES	flared end section
	fin.	finish
	ftg.	footing
G	ga.	gage (gauge)
	galv.	galvanized
	gdr.	girder

H	hdwl.	headwall
	HES	homestead entry survey
	hex.	hexagon
	horiz.	horizontal
	HW	high water
	hwy.	highway
I	ID	inside diameter
	incl.	inclusive, including
	int.	interior
J	jt.	joint
L	L	length of curve
	lam.	lamination
	lat.	latitude
	long.	longitude
	LPSM	lump sum
	Lt. or LT	left
	LW	low water
M	mag.	magnetic
	maint.	maintenance
	matl.	material
	max.	maximum
	MGS	Midwest Guardrail System
	min.	minimum
	mon.	monument
	mtn(s).	mountain(s)
N	N	north
	NC	normal crown
	neg.	negative
	no. or #	number
O	o.c.	on centers
	o.f.	other face
	OD	outside diameter
P	PC	point of curve
	PCC	point of compound curve
	perf.	perforate
	PI	point of intersection
	pl.	plate
	POC	point on curve
	POS	point on spiral
	POT	point on tangent
	proj.	project
	psi	pounds per square inch
	PT	point of tangent
	pvmt.	pavement
Q	quant., Qty	quantities
R	R	radius
	R.	range
	R/W	right-of-way
	rd.	road
	rdwy.	roadway
	reconst.	reconstruction
	reinf.	reinforcement
	reqd.	required
	res.	reservoir
	Res.	Reservation
	ret. wall	retaining wall
	RH	reference hub
	Rt. or RT	right
	rte.	route

S	S	south
	SADT	seasonal average daily traffic
	SC	point of spiral to curve
	sec.	section
	shldr.	shoulder
	spa.	spacing, spaces or spaced
	spec.	specification
	st.	street
	ST	point of spiral to tangent
	sta.	station
	std.	standard
	stiff.	stiffener
	str.	straight
	struc.	structural
	sym.	symmetrical
T	T	tangent length
	T.	township
	tan.	tangent
	TBM	temporary bench mark
	TCE	temporary construction easement
	transv.	transverse
	TS	point of tangent to spiral
	typ.	typical
V	V	design speed
	vert.	vertical
	vph	vehicles per hour
	VPI	vertical point of intersection
W	W	West

DRAINAGE SYMBOLS

Ditch (existing, proposed)

Flow Arrow

Drainage or Small Creek

Lake, Pond or Reservoir

Large Creek

Wetland

River

Spring

Bridge (existing, proposed)

Box culvert (existing, proposed)

Pipe culvert (existing, proposed)

With end sections (existing, proposed)

With headwalls (existing, proposed)

With drop inlet (existing, proposed)

Underdrain (existing, proposed)

Riprap apron (proposed)

PROJECT	SHEET NUMBER
PROJECT NUMBER PROJECT NAME	A2

CONTINUATION OF
INDEX TO SHEETS
LINK
FROM EXCEL

NOTE TO DESIGNERS
DO NOT MODIFY
ADD OR SUBTRACT
ITEMS LEFT OF
THIS LINE

CONVENTIONAL PLAN SYMBOLS AND ABBREVIATIONS

Sheet 1 of 2

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PROJECT	SHEET NUMBER
FIRST PROJECT LINE SECOND PROJECT LINE	A3

FENCE & CATTLE GUARD SYMBOLS

- Fence (existing, proposed)
- Fence with gate (existing, proposed)
- Cattle guard (existing, proposed)

GEOLOGIC SYMBOLS

- Boring location
- Material source

LANDSCAPING & VEGETATION SYMBOLS

- Tree
- Tree line

MAPPING SYMBOLS

- Building (existing, proposed)
- Coordinate Grid Tick
- North arrow
- Railroad
  - Single Track
  - Double Track
- Spot elevation
- Trail
- Survey control point

GUARDRAIL, BARRIER & WALL SYMBOLS

- Guardrail (existing, proposed)
- Guardwall (proposed)
- Median & Side Barrier (existing, proposed)
- Retaining Wall (existing, proposed)

ROADWAY SYMBOLS

- Clearing/construction limits
- Slope stake limits
  - Top of Cut
  - Transition
  - Toe of fill
- Edge of roadway (existing, proposed)
- Roadway centerline (with station ticks)
- Roadway obliteration

RIGHT-OF-WAY SYMBOLS

- Boundaries
  - National
  - State
  - County
  - City
  - Township or Range line
  - Section
  - 1/4 Section
  - 1/16 Section
  - Bureau of Indian Affairs
  - Bureau of Land Management
  - National Forest
  - National Park
  - National Wildlife Refuge
- Easements
  - Permanent (existing)
  - Permanent (proposed)
  - Temporary (proposed)
- Monument (as described)
- Parcel number
- Property line
- Right-of-way line (existing)
- Right-of-way line (proposed)
- Section corner (found, projected)
  - 1/4 Section corner (found, projected)
  - 1/16 Section corner (found, projected)

SIGN SYMBOLS

- Signs
  - Commercial (existing, proposed)
  - Delineator (existing, proposed)
  - Portable (proposed)
  - Post mounted (existing, proposed)

UTILITY SYMBOLS

- Irrigation ditch
  - Underground (existing, proposed)
  - Surface (existing, proposed)
- Support pole (existing, proposed)
- Support pole anchor (existing, proposed)
- Street light (existing, proposed)
- Telephone pedestal (existing, proposed)
- Underground utility
  - CATV (existing, proposed)
  - Fiber optic (existing, proposed)
  - Gas (existing, proposed)
  - Oil (existing, proposed)
  - Power (existing, proposed)
  - Sanitary sewer (existing, proposed)
  - Telephone (existing, proposed)
  - Water (existing, proposed)
- Overhead utility
  - CATV (existing, proposed)
  - Fiber optic (existing, proposed)
  - Power (existing, proposed)
  - Telephone (existing, proposed)

PROJECT SPECIFIC SYMBOLS

NOTE TO DESIGNERS
DO NOT MODIFY
ADD OR SUBTRACT
ITEMS LEFT OF
THIS LINE

CONVENTIONAL PLAN SYMBOLS AND ABBREVIATIONS

Sheet 2 of 2

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