CONVENTIONS
SUBJECT TITLES

SUBJECT TITLES:

WHEN ONLY ONE SUBJECT APPEARS ON A DRAWING, AND ITS TITLE APPEARS IN THE TITLE BLOCK, A SUBTITLE SHOULD BE SHOWN UNDER EACH VIEW OR DETAIL ON THE DRAWING, THUS:

SUBTITLE **PLAN** **ELEVATION** **PROFILE** (LEROY 175/2)

WHEN MORE THAN ONE SUBJECT APPEARS ON A DRAWING, A TITLE SHOULD BE SHOWN UNDER EACH SUBJECT, AND A SUBTITLE SHOWN BELOW EACH VIEW OR DETAIL IN THAT GROUP, THUS:

SUBTITLE PLAN ELEVATION PROFILE (LEROY 140/0)

SUBJECT TITLE **TROLLEY BEAM** (LEROY 175/2)

MODIFYING PHRASE TOP STEEL ONLY (LEROY 140/0)

TITLE FORMAT FORM FOR PARTS DETAIL:

SUBJECT TITLE **PINION SHAFT BUSHING** (LEROY 175/2)

SPECIFIC INFORMATION MARK 60/5-7 MAKE 4 BRONZE EST. WT. 1.63 LB. EA. (LEROY 120/0)

NUMERICAL AND GRAPHIC SCALE:

SUBJECT TITLE OR SUBTITLE **TROLLEY BEAM** (LEROY 175/2)

NUMERICAL SCALE SCALE $\frac{1}{4}'' = 1'-0''$ (LEROY 120/0)

GRAPHIC SCALE 12" 0 5' (LEROY 100/0)

NOTES:

1. APPROXIMATELY ½" BELOW THE SUBJECT, CENTER THE TITLE OR SUBTITLE.
2. INDICATE IN TITLE BLOCK OR UNDER EACH VIEW WHEN NOT DRAWN TO SCALE.

CONVENTIONS

LINES

LINE CONVENTIONS AND WEIGHTS:

CENTER LINE	1 WEIGHT
DIMENSION LINE	1 WEIGHT
LEADER	1 WEIGHT
BREAK	1 WEIGHT
PHANTOM	1 WEIGHT
EXISTIN FEATURE	1 WEIGHT
HIDDEN	1 WEIGHT
VISIBLE (OBJECT OUTLINE)	2 WEIGHT
PRIMARY FEATURE (ELEC., PLUM., ETC.)	3 WEIGHT
PRIMARY FEATURE (REINF.)	4 WEIGHT

LEROY TO INTERGRAPH WEIGHT COMPARISON:

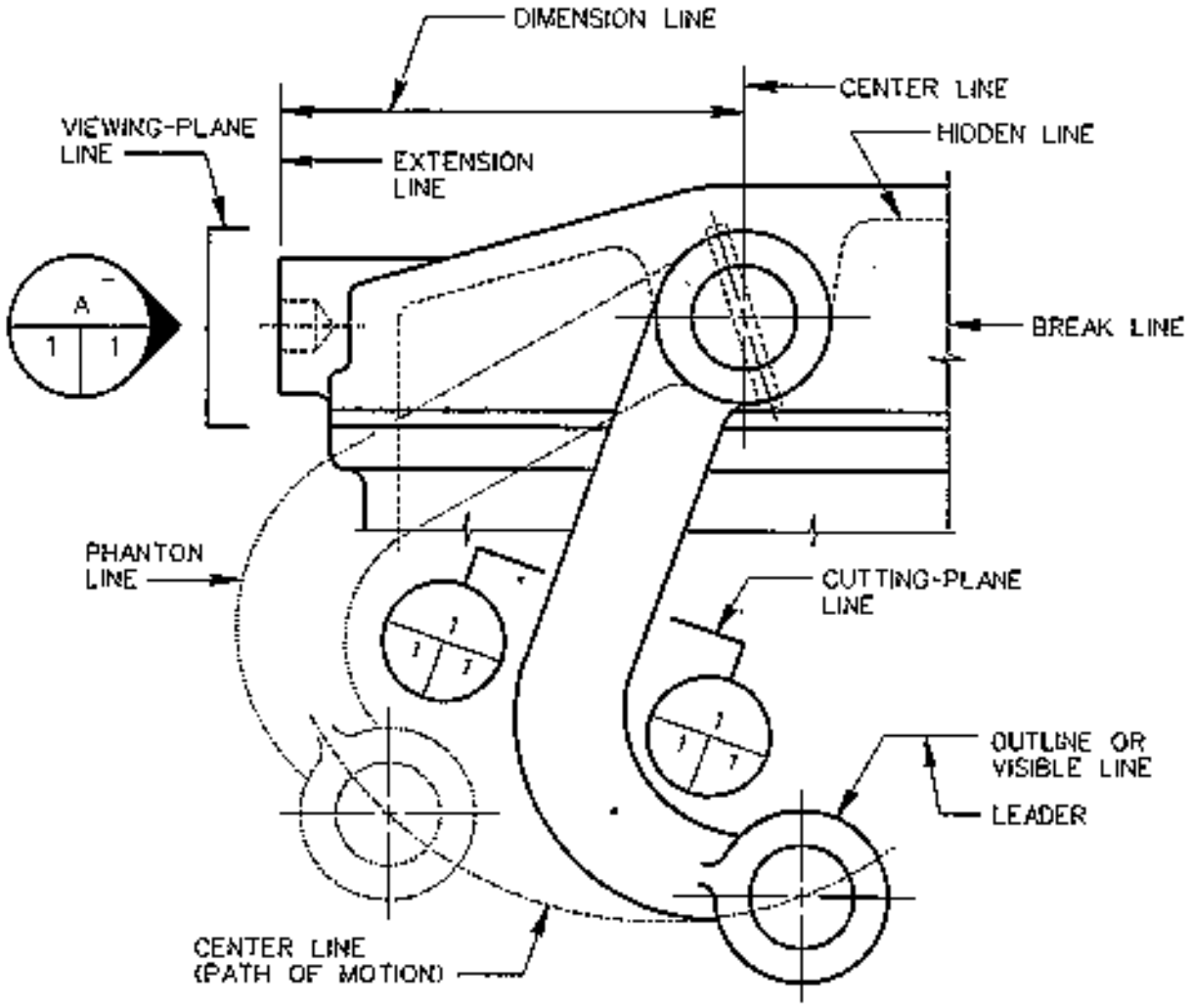
LEROY PEN SIZE	000	00	0	1	2	3	4	5	6	7	8
INTERGRAPH WT.	NONE	0	1	2	3	4	6	8	11	14	17

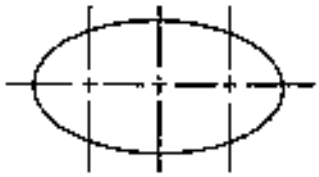
RECOMMENDED LINE WEIGHTS FOR FINAL PLOTTED TEXT SIZES:

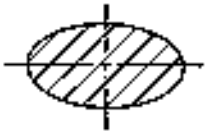
EQUIVALENT TO LEROY SIZE	60	80	100	120	140	175	200	240	290	350	425
INTERGRAPH WT.	0	1	1	1	1	3	3	4	6	8	8

CONVENTIONS

LINES - ILLUSTRATED USE

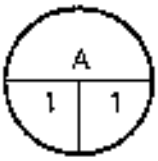




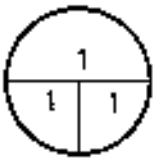


SECTIONS LINES

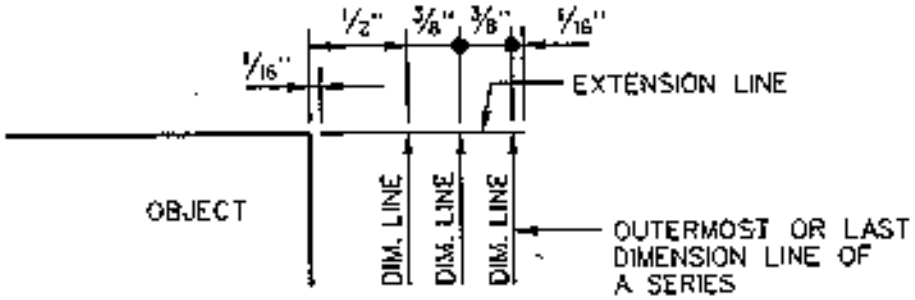
VIEW



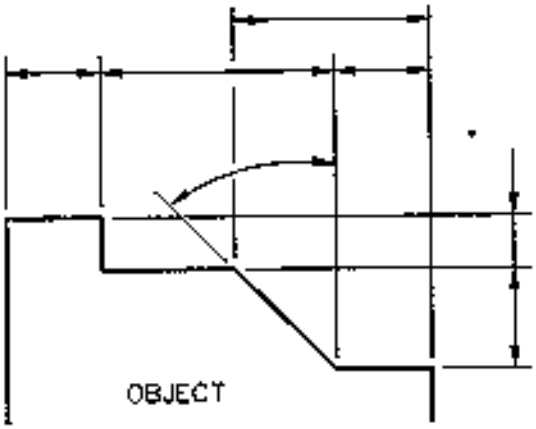
SECTION



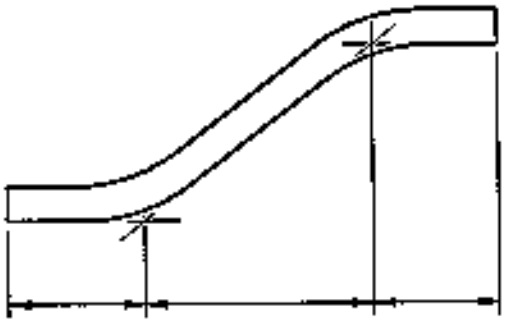
DIMENSION AND EXTENSION LINE SPACING:



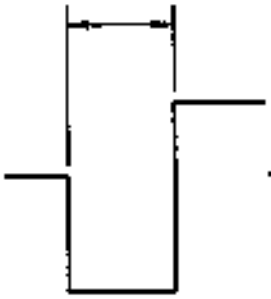
DIMENSION AND EXTENSION LINE SPACING:



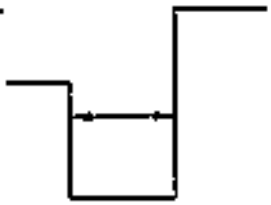
EXTENSION LINES SHOULD BE BROKEN WHEN CROSSING DIMENSION LINES, AND UNBROKEN WHEN CROSSING OBJECT LINES OR OTHER EXTENSION LINES.



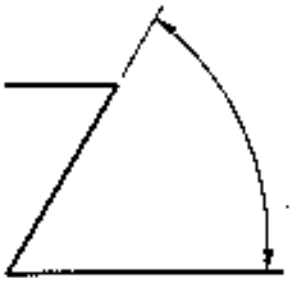
EXTENSION LINES PASS THROUGH POINT OF INTERSECTION CREATED BY EXTENDING THE OBJECT OUT LINES OR CENTER LINE.



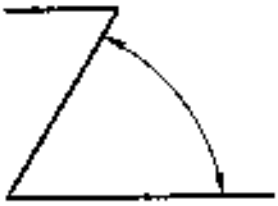
RECOMMENDED



NOT RECOMMENDED



RECOMMENDED



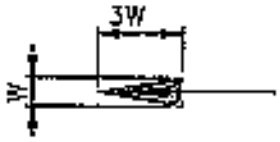
NOT RECOMMENDED

CONVENTIONS

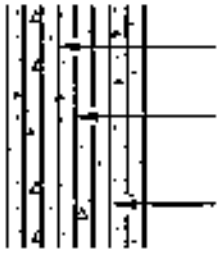
DIMENSIONING - LEADERS AND ARROWS

ARROWS:

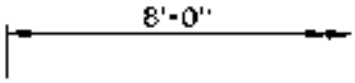
USE STRAIGHT LINE OR SMOOTH CURVED LEADERS. DO NOT MIX LEADER STYLES ON DRAWINGS.



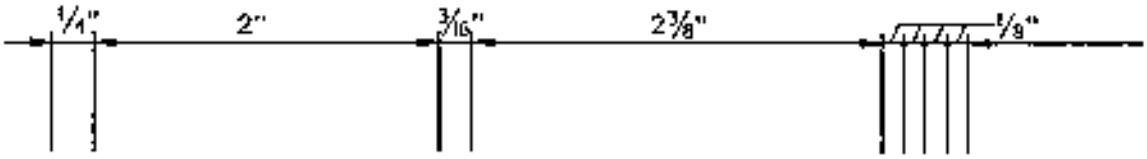
USE THIS TYPE ARROWHEAD, LT-ARROW. IF USING AUTOMATIC DIMENSIONING, USE FILLED ARROWS FOR LINE TERMINATORS.

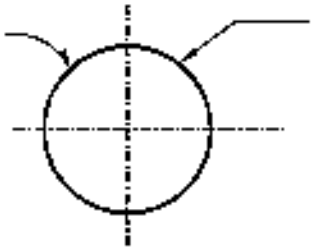


LEAVE CLEAR SPACE AROUND ARROWHEAD

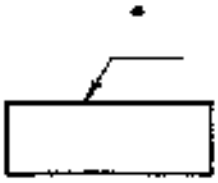


FOR CONTINUATION

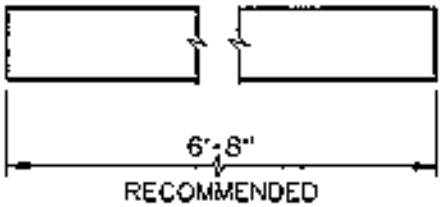




LEADERS TO CIRCLES SHALL BE IN RADIAL DIRECTIONS



LEADERS SHALL BE NEAR PERPENDICULAR TO OBJECT SURFACE

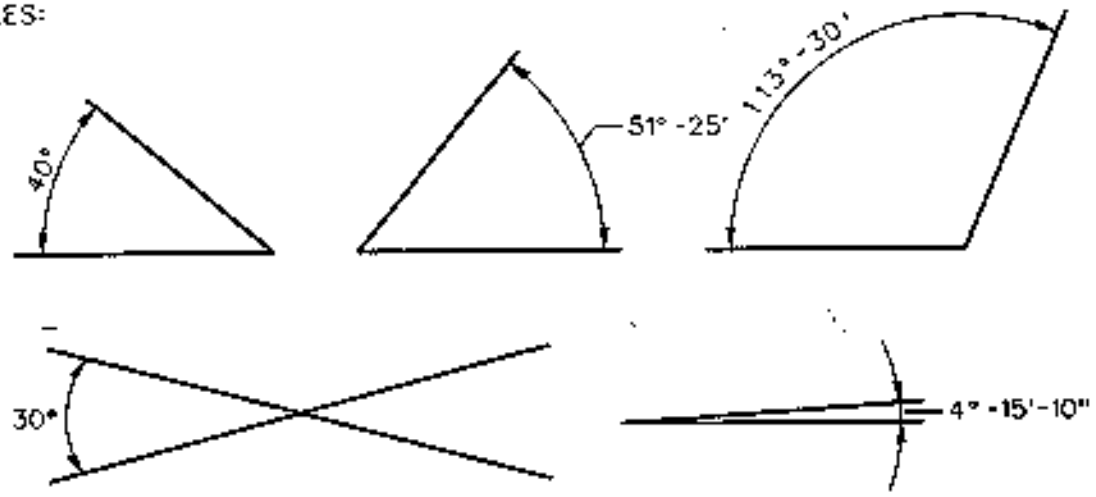


RECOMMENDED

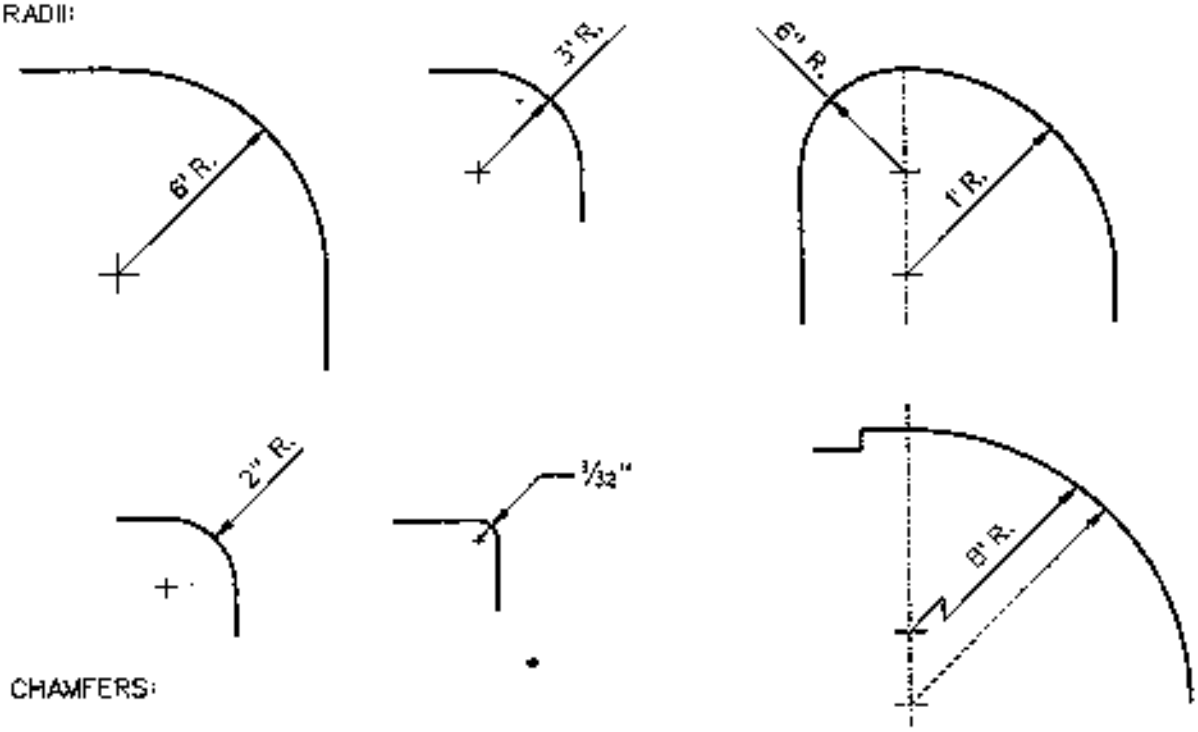
CONVENTIONS

DIMENSIONING ANGLES, RADII AND CHAMFERS

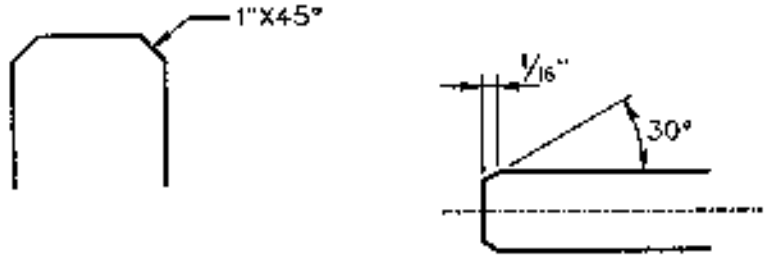
ANGLES:



RADII:

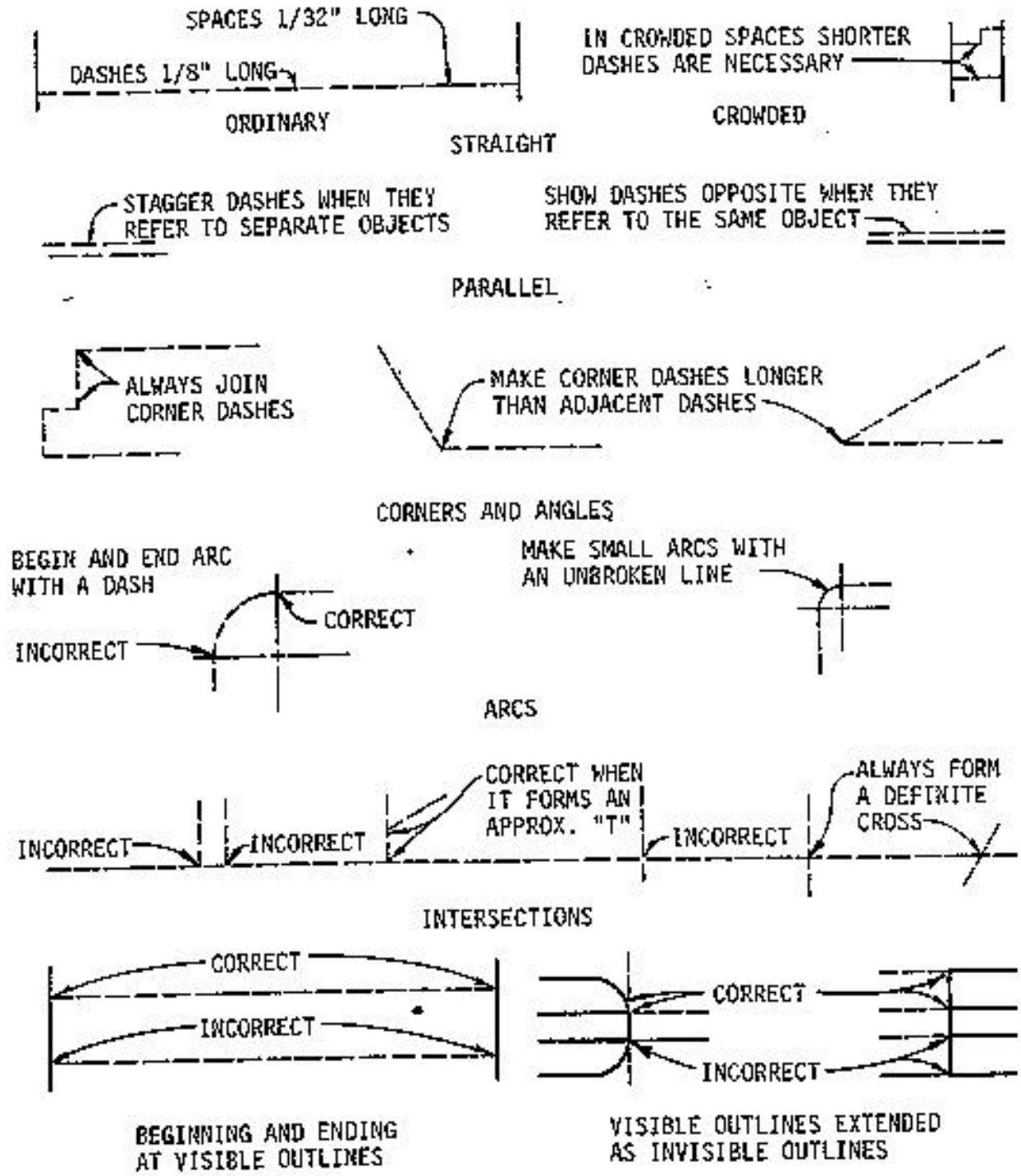


CHAMFERS:



CONVENTIONS
INVISIBLE OUTLINES

EXAMPLES: LINE WIDTHS, LENGTHS AND SPACES MAY VARY ACCORDING TO SCALE

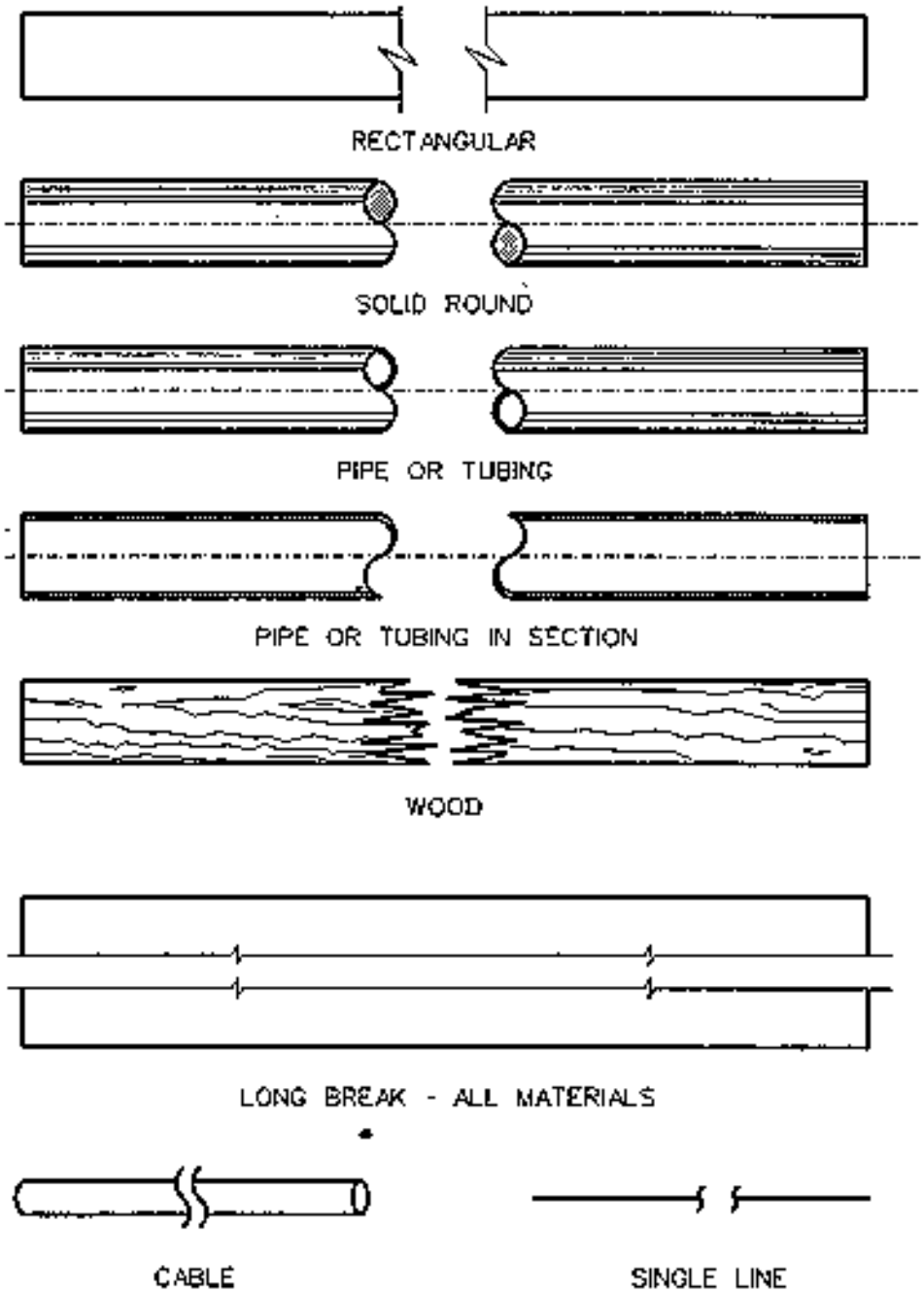


NOTE:

SINCE INVISIBLE OUTLINES ARE DIFFICULT TO READ, PARTICULAR ATTENTION SHOULD BE GIVEN TO THE UNIFORMITY OF LENGTHS OF DASHES AND SPACES AND TO THE CORRECT BEGINNING, ENDING AND JOINING OF DASHES. THE EXAMPLES ARE SELF-EXPLANATORY AND SHOULD BE CAREFULLY FOLLOWED.

CONVENTIONS

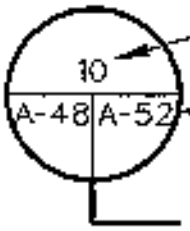
BREAKS



CONVENTIONS

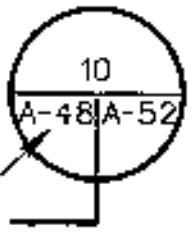
SECTION, DETAIL AND ELEVATION CROSS REFERENCING

SECTION REFERENCING: USE ON ALL DRAWINGS WHEN PRACTICAL



SECTION IDENTIFICATION NUMBER

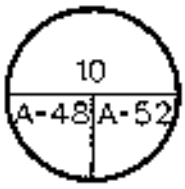
SHEET OR PLATE NUMBER ON WHICH SECTION IS DRAWN



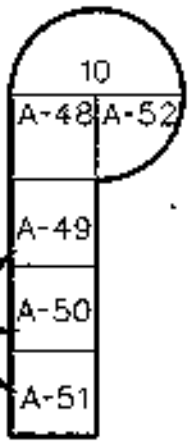
SHEET OR PLATE NUMBER ON WHICH SECTION IS TAKEN

SYMBOL WHERE SECTION IS TAKEN

SECTION



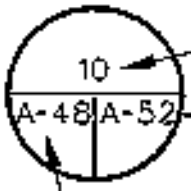
SECTION



ADDITIONAL SHEET OR PLATE NUMBERS ON WHICH CONDITION IS SHOWN

SUBTITLES FOR SECTION DRAWING

DETAIL REFERENCING:



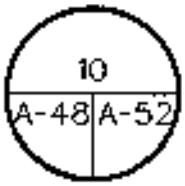
DETAIL IDENTIFICATION NUMBER

SHEET OR PLATE NUMBER ON WHICH DETAIL OF THE CONDITION IS DRAWN

SHEET OR PLATE NUMBER ON WHICH CONDITION IS SHOWN

SYMBOL FOR LOCATING CONDITION FOR WHICH THERE IS A DETAIL

DETAIL



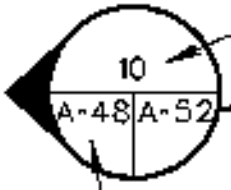
SUBTITLE FOR DETAIL DRAWING

!!! CELL NAME GEN007 LOCATED IN GENERAL.CEL

CONVENTIONS

SECTION, DETAIL AND ELEVATION CROSS REFERENCING

ELEVATION OR VIEWING PLANE REFERENCING:



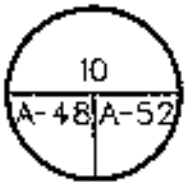
ELEVATION IDENTIFICATION NUMBER

SHEET OR PLATE NUMBER ON WHICH ELEVATION IS DRAWN

SHEET OR PLATE NUMBER ON WHICH ELEVATON IS TAKEN.

SYMBOL WHERE ELEVATION OR VIEWING PLANE IS TAKEN

ELEVATION

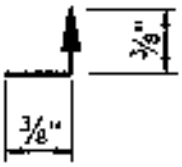


SUBTITLES FOR ELEVATION DRAWING

SECTION REFERENCING: USE ONLY WHEN ABOVE SECTION CROSS REFERENCING IS IMPRACTICAL

A (LEROY 120V-1)

A



A-A

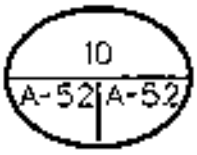
NOT

SECTION A-A

SYMBOL WHERE SECTION IS TAKEN

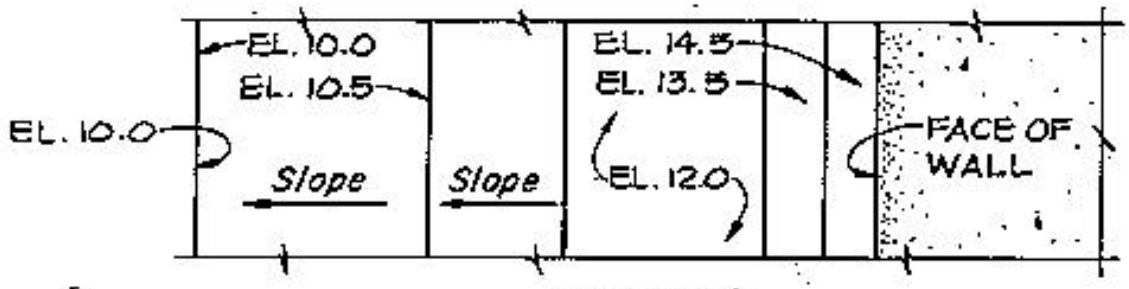
SUBTITLE FOR SECTION DRAWING

NOTE: EM 1110-1-1807 INCLUDES CELLS FOR SECTION REFERENCING SHOWN AS OVALS. EITHER MAY BE USED. DO NOT MIX STYLES ON DRAWINGS.

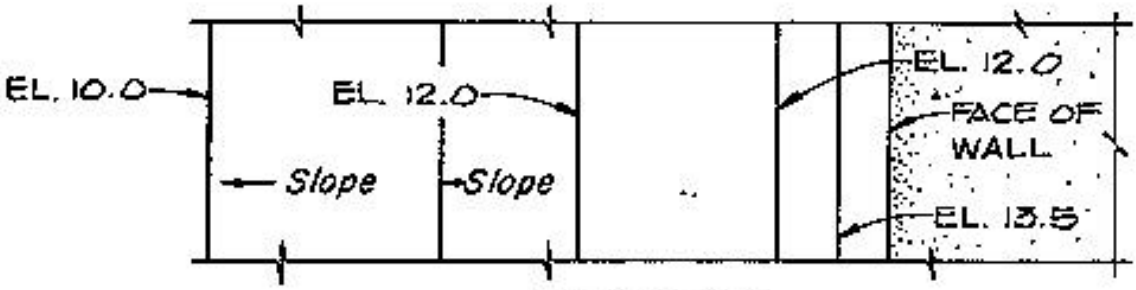


CONVENTIONS
ELEVATION (HEIGHT) INDICATIONS

PLAN:

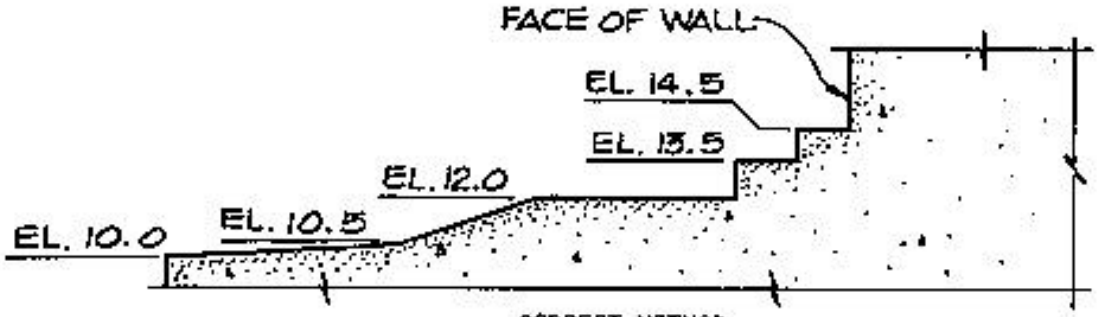


CORRECT METHOD

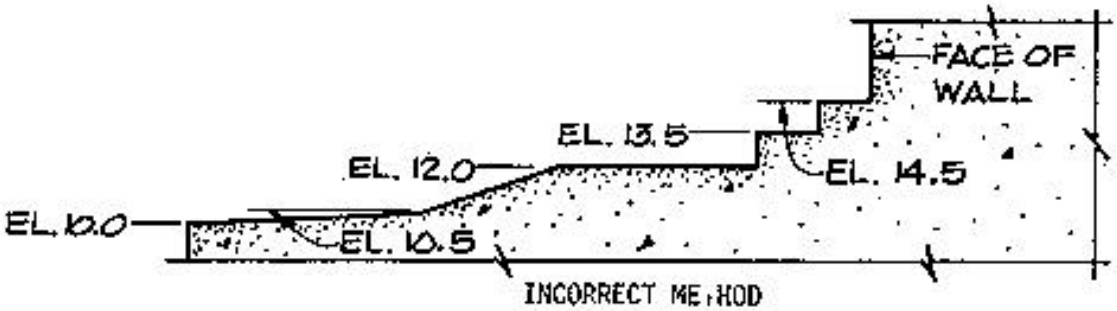


INCORRECT METHOD

SECTION:



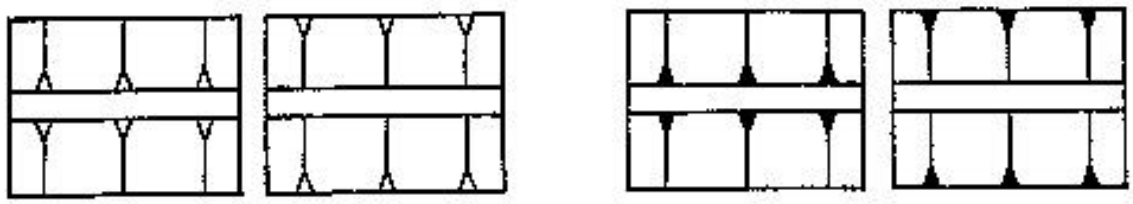
CORRECT METHOD



INCORRECT METHOD

CONVENTIONS
SLOPES AND GRADES

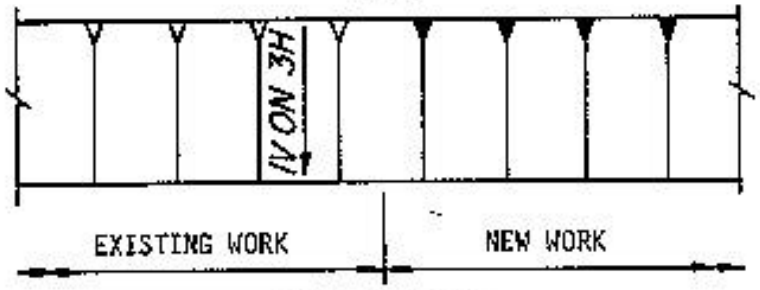
SLOPES: APPLICABLE TO EMBANKMENTS OR EXCAVATIONS



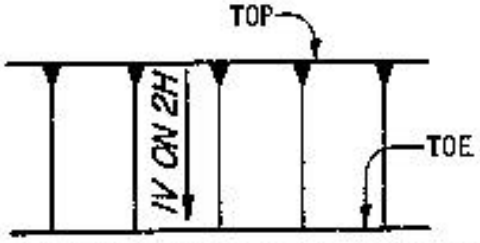
FILL CUT FILL CUT

EXISTING NEW

PLAN

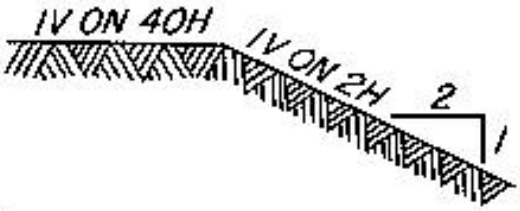


PLAN OR ELEVATION



VARY SPACING TO SUIT SCALE OF DRAWING

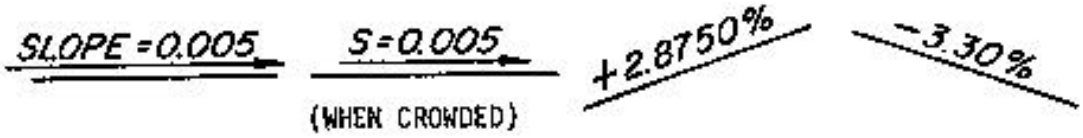
PLAN OR ELEVATION



SECTION OR ELEVATION

GIVE SLOPE AS A RATIO OF THE VERTICAL RISE ON A HORIZONTAL DISTANCE

GRADES: APPLICABLE TO ROADS AND DRAINAGE DITCHES

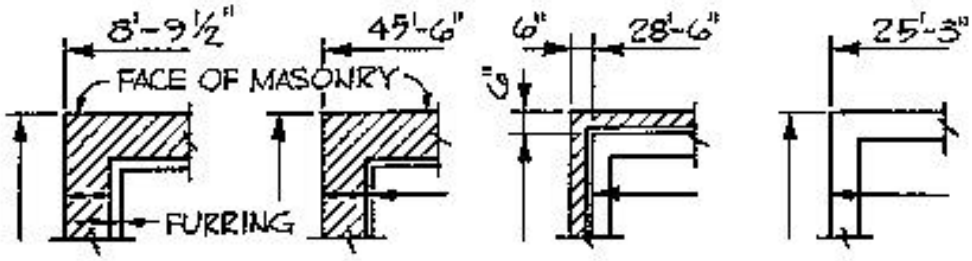


(WHEN CROWDED)

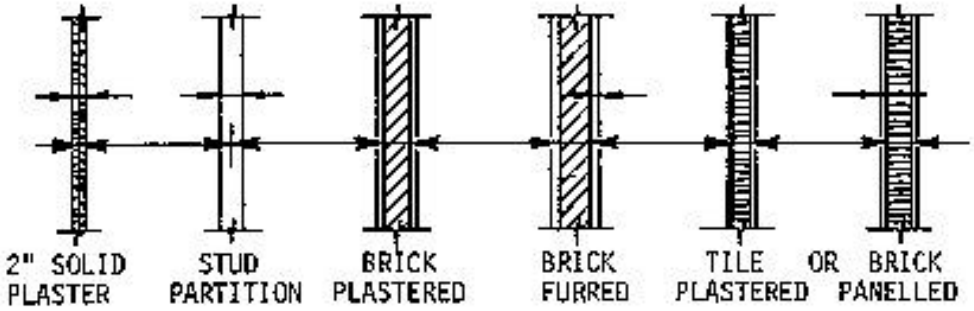
SECTION OR PROFILE

CONVENTIONS
ARCHITECTURAL

DIMENSIONING WALLS AND PARTITIONS:

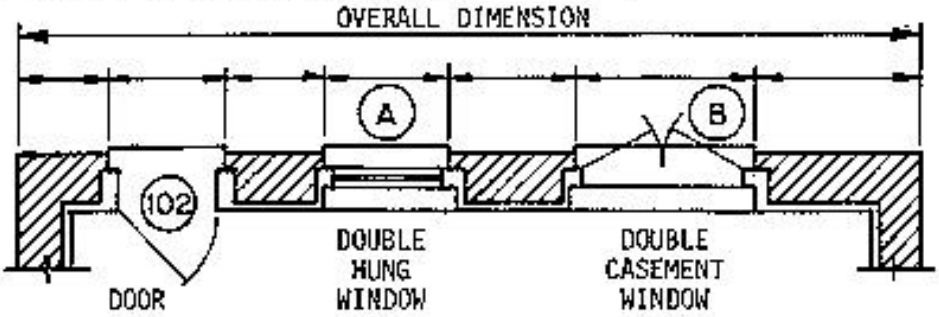


EXTERIOR WALLS

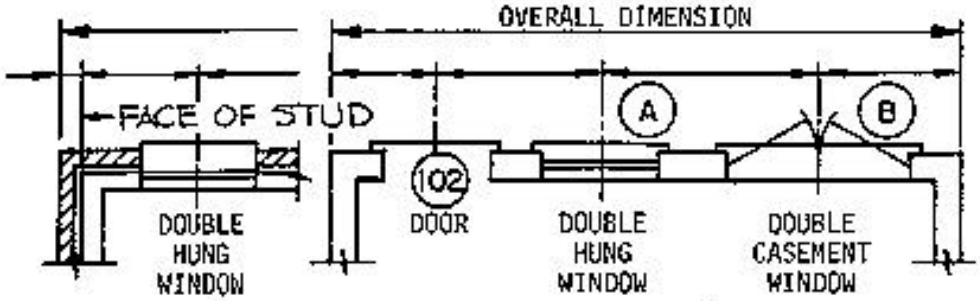


INTERIOR PARTITIONS

DIMENSIONING AND INDICATIONS OF WINDOWS AND DOORS:



EXTERIOR MASONRY WALLS



BRICK VENEER EXTERIOR FRAME WALLS

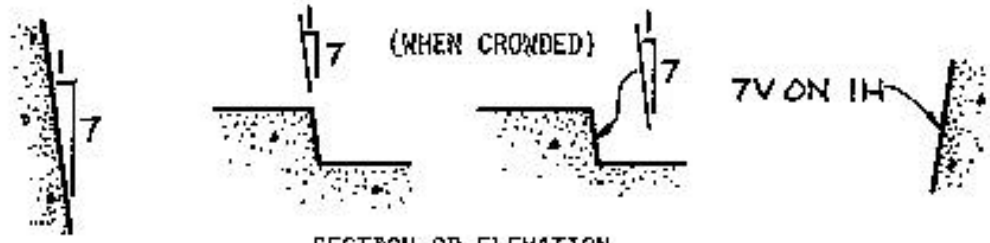
CONVENTIONS
LEGEND FORMAT

LEGEND

FUTURE	NEW	EXISTING	
			BUILDING
			ROAD
	—W—	—W—	WATER LINE
	—P—	—P—	POWER LINE
			POWER LINE TO BE REMOVED
			POWER LINE TO BE ABANDONED
	—SS—	—SS—	SANITARY SEWER
	—SD—	—SD—	STORM DRAIN
	—T—	—T—	TELEPHONE
	—UP—	—UP—	UNDERGROUND POWER
	—XX—	—X—	FENCE
	▲	△	TRANSFORMER
			FIRE HYDRANT
			VALVE
	Ⓜ	Ⓜ	MOTOR
	Ⓙ	Ⓙ	JUNCTION BOX
			DUPLEX RECEPTACLE
	S	S	STATUS SWITCH
			EXPOSED CONDUIT
	—75—	—75—	CONTOUR
			SURFACE MOUNTED PANELBO
			LIGHTING PANEL

CONVENTIONS
MISCELLANEOUS

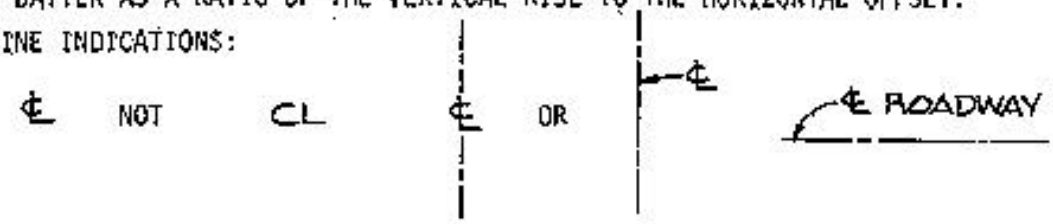
BATTER: APPLICABLE FOR CONCRETE WORK OR ROCK EXCAVATION



SECTION OR ELEVATION

GIVE BATTER AS A RATIO OF THE VERTICAL RISE TO THE HORIZONTAL OFFSET.

CENTER LINE INDICATIONS:



PREFERRED..

FRACTIONS AND WHOLE NUMBERS:

$4\frac{1}{4}$ OR 4¼ NOT 4 1/4 $6' - 2\frac{1}{2}''$

CENTER INCH AND FOOT MARKS ON CAP LINE EXCEPT FOR FRACTIONS

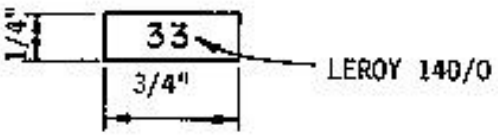
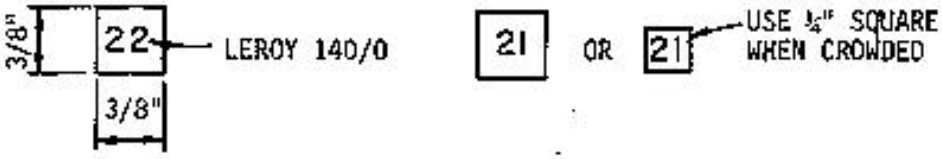
DECIMAL FRACTIONS SHALL ALWAYS HAVE A CIPHER BEFORE THE DECIMAL POINT:

0.2 0.95 0.5279 0.037 0.0005

COMMAS SHALL BE USED IN NUMBERS CONTAINING FOUR OR MORE DIGITS, EXCEPT DECIMAL FRACTIONS, SERIAL NUMBER, ETC.

6,250 3,268,971 CATALOG NO. 7321 0.1253

PAYMENT ITEM NUMBERS:



UNIT NUMBERS: