

midas DShop

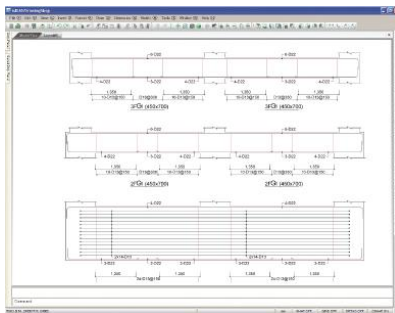
Auto-drafting Module for midas Gen

MIDAS Information Technology Co., Ltd.

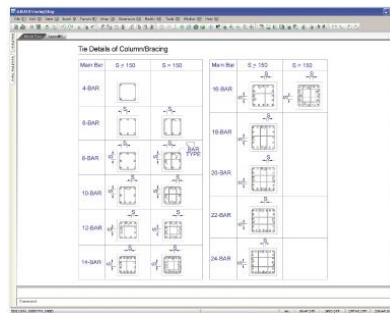


midas DShop empowers engineers to streamline the design process all the way to generating engineering drawings. midas DShop imports models complete with analysis & design results from midas Gen and automatically generates structural drawings.

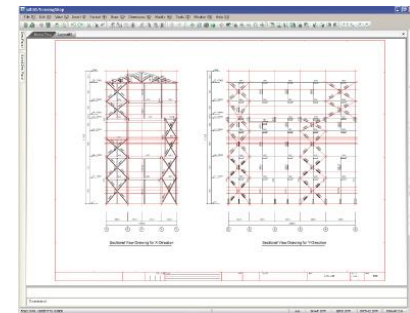
- Rebar Placement Spec. checking functions.
- Auto-generation of Grid Lines and Grid Mark & Dimension creation/edit function.
- Rebar auto-placement by members reflecting constructability.
- Reinforcement Edit function by members.
- Auto-grouping & Group editing functions by member types
- Member offset Edit functions
- Drawing Style & Member Mark Location selection functions
- Drawing Form Insertion function
- Auto-generation of B.O.M (Bill Of Material)



Beam/Column Elevation Reinforcement



Tie Details of Column/Bracing



Steel Sectional Elevations

Main Menu

Tools Bar

Working Panel

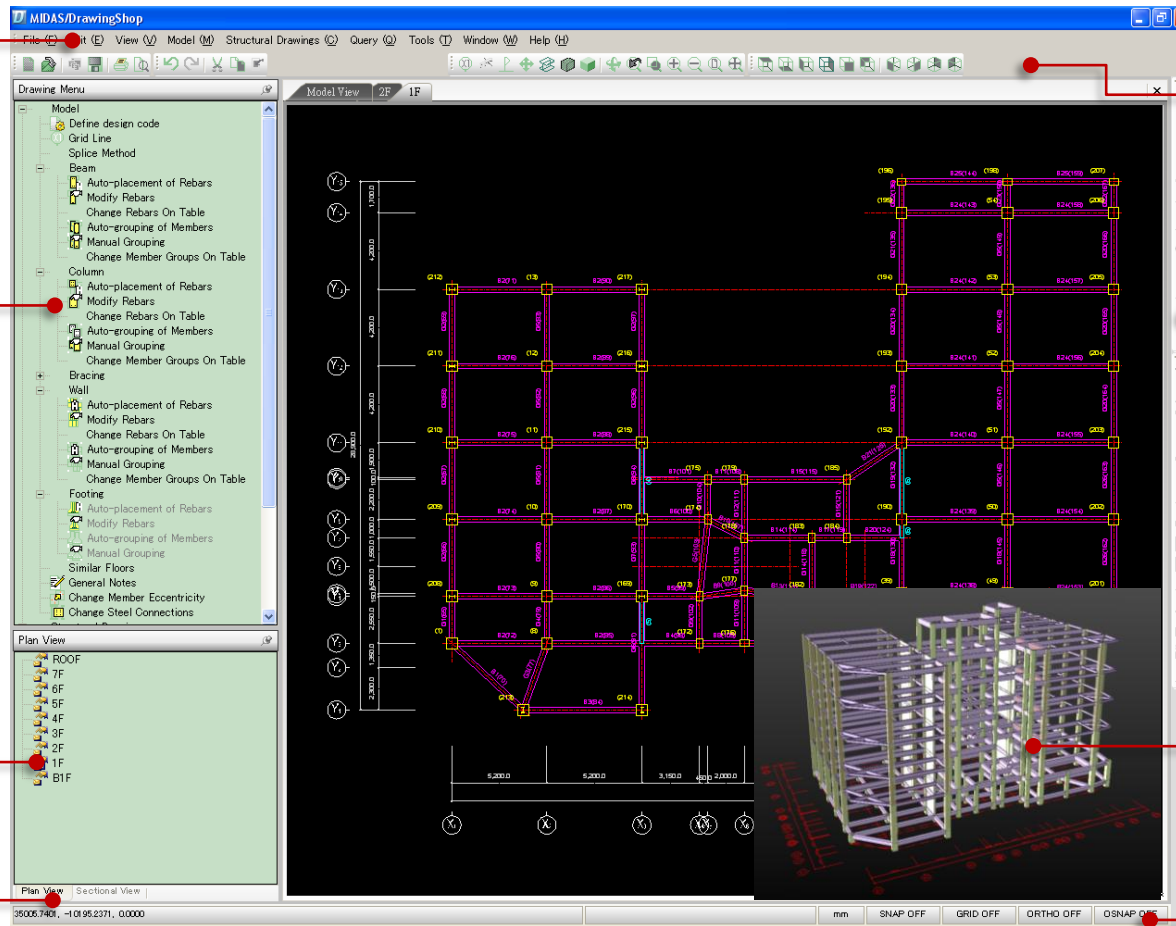
Main Drawing View

Plan/Section View

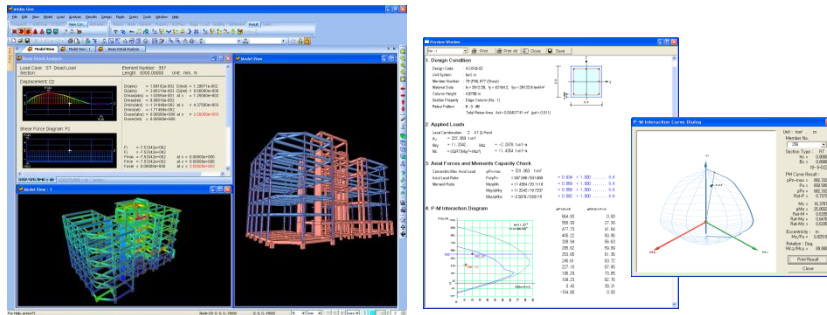
Model View

Plan/Section View TAB

Status Bar



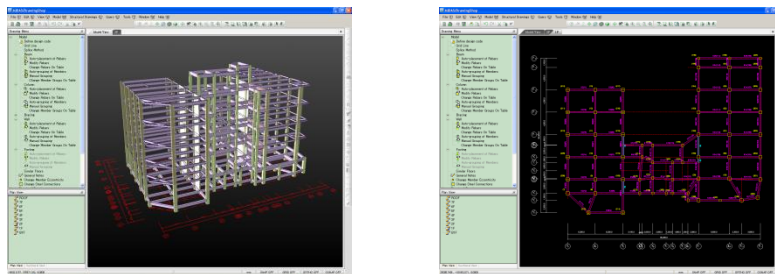
Import Analysis & Design results from midas Gen



midas Gen Design Results



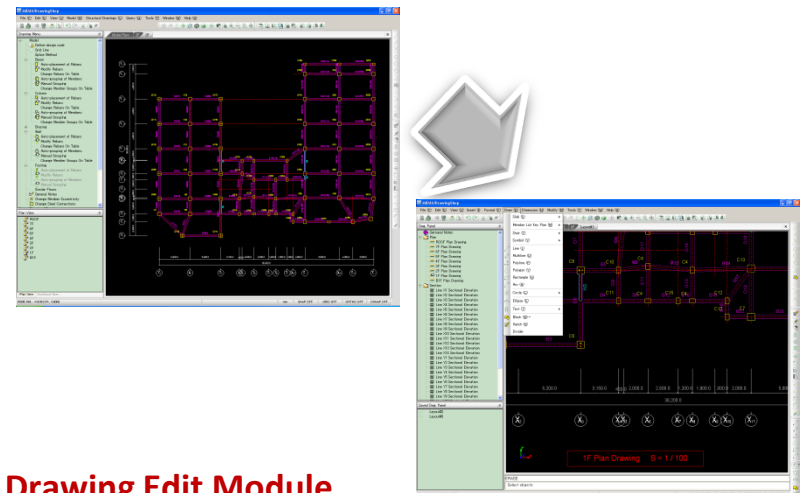
Import



midas DShop Drawings

□ Drawing Generation Module

- ① Auto-placement of reinforcing bars reflecting constructability.
- ② Convenient edit functions for RC reinforcement information.
- ③ Offset adjustment functions by Object bases.

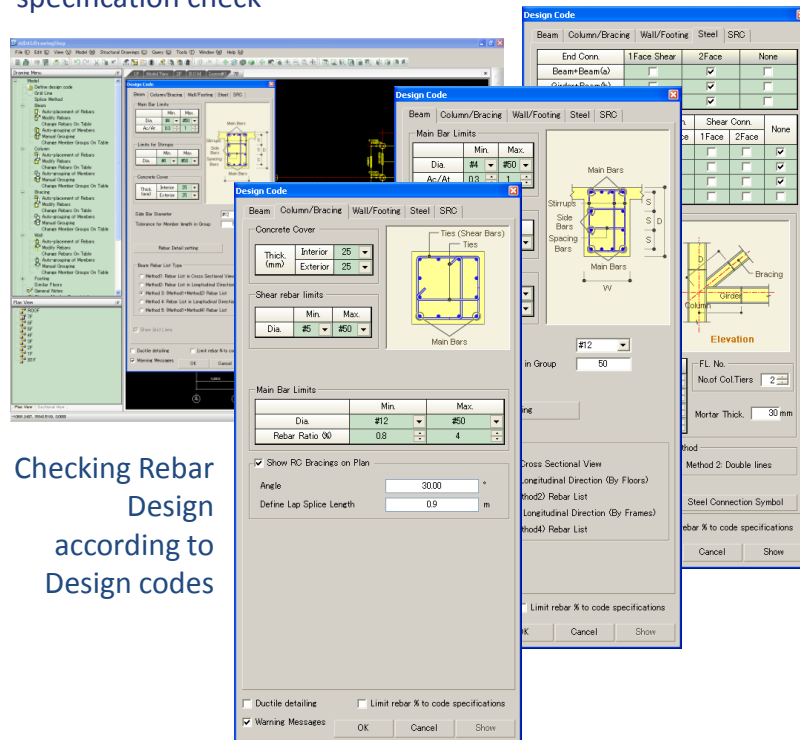


□ Drawing Edit Module

- ① Drawing construction and edit functions identical to AutoCAD.
- ② Drawing functions for Members.
(Slab / Beam / Column / Brace / Wall / Foundation)
- ③ Variety of symbol generation functions.

Rebar Placement Specification checking function

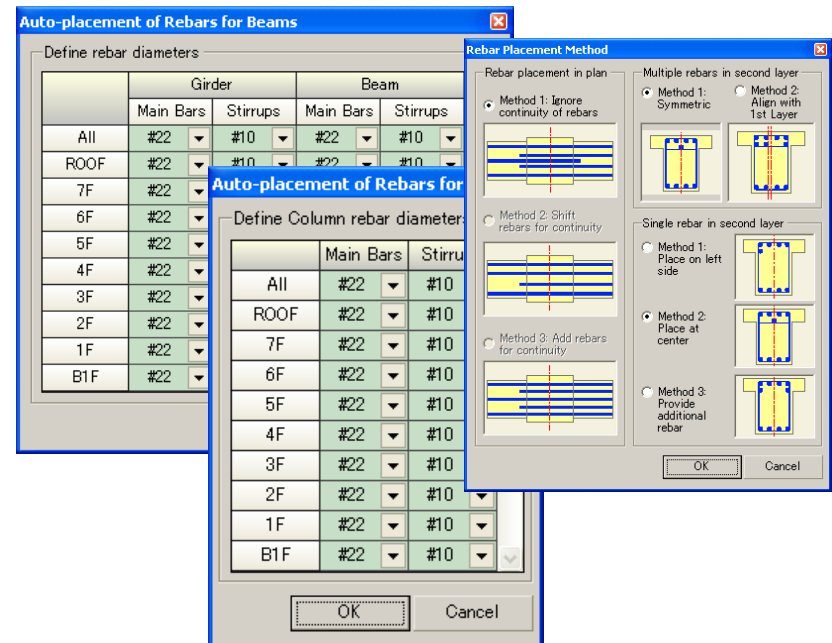
- RC reinforcement specification check
- (Beam, Column & Wall)
- Structural Steel check
- RC/SS composite member reinforcement specification check



Checking Rebar Design according to Design codes

Rebar Auto-placement reflecting constructability

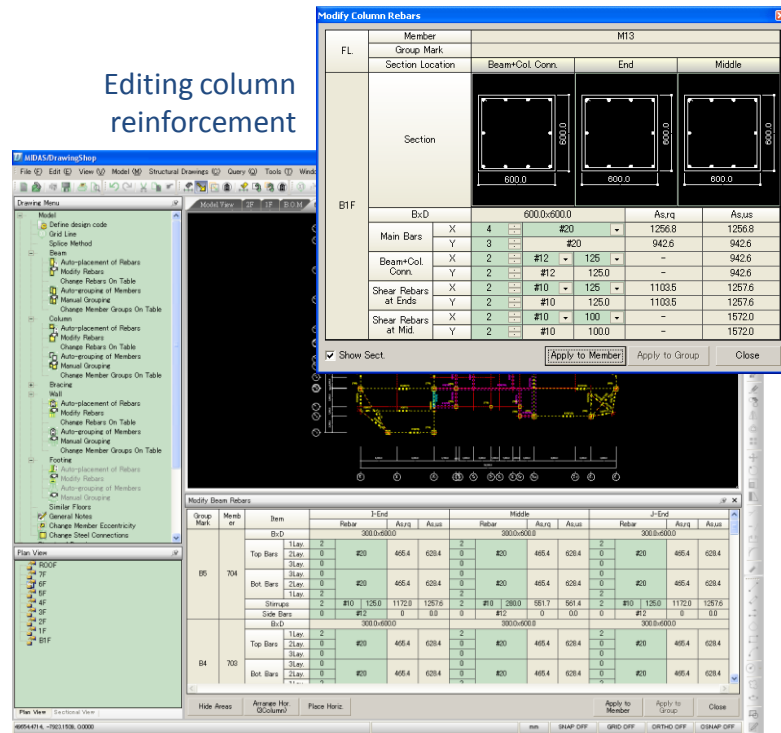
- Rebar placement specification by members (Beam, Column, Wall & Footing)
- Rebar placement reflecting constructability
 - Check for clear spacing of rebars
 - Specify rebar placement method for constructability
 - Specify rebar diameters by stories & members



Reinforcement Edit function

The Reinforcement Edit function enables engineers to reflect constructability by providing a means to easily modify design results produced by midas Gen.

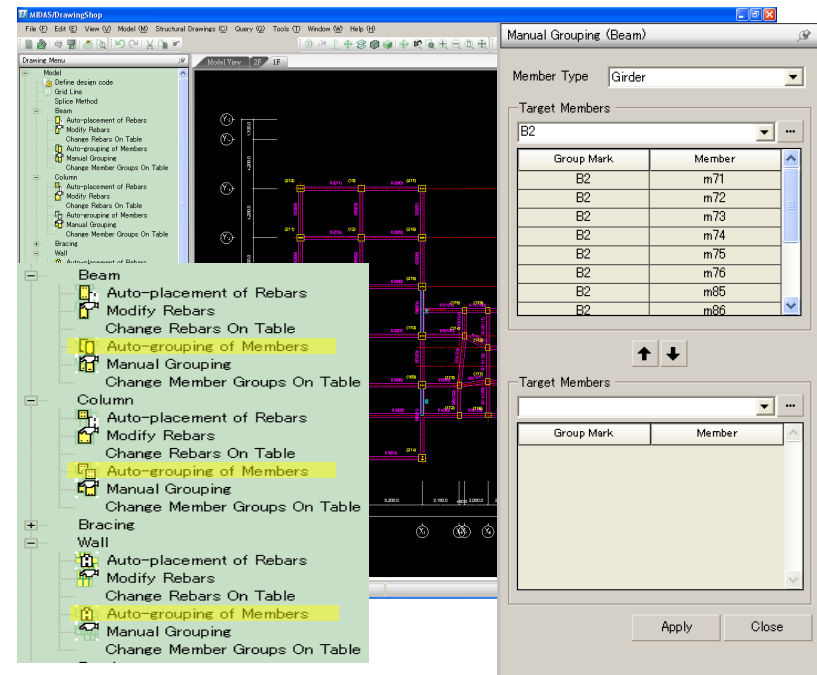
Editing column reinforcement



Editing reinforcement in Table

Auto-grouping & Group editing

- Auto-grouping function for members having identical data (section size, rebar quantity, rebar diameter, spacing & number of rebars)
- User-editing function for auto-grouped results



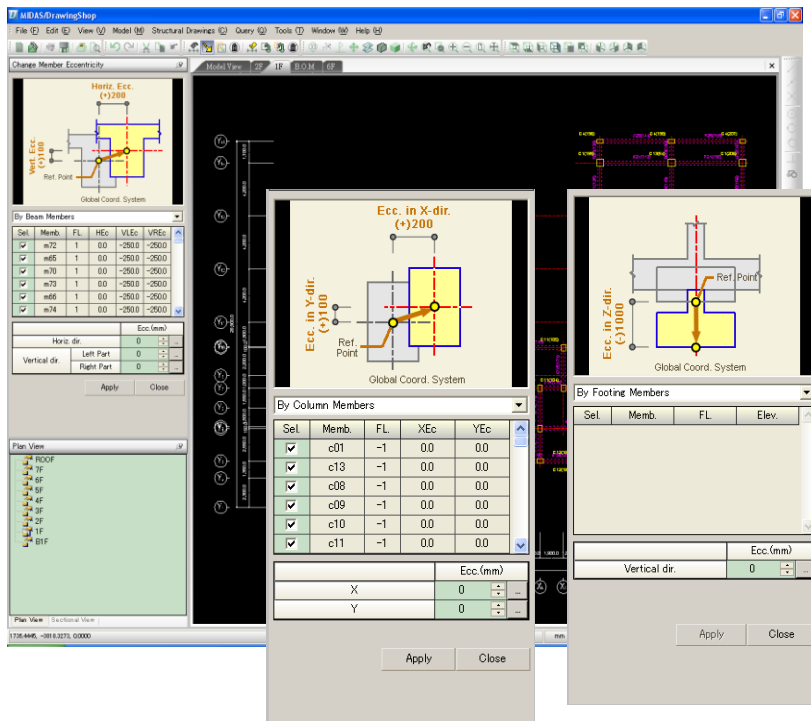
Auto-grouping by midas DShop

User Defined Grouping

Member Offset Edit function

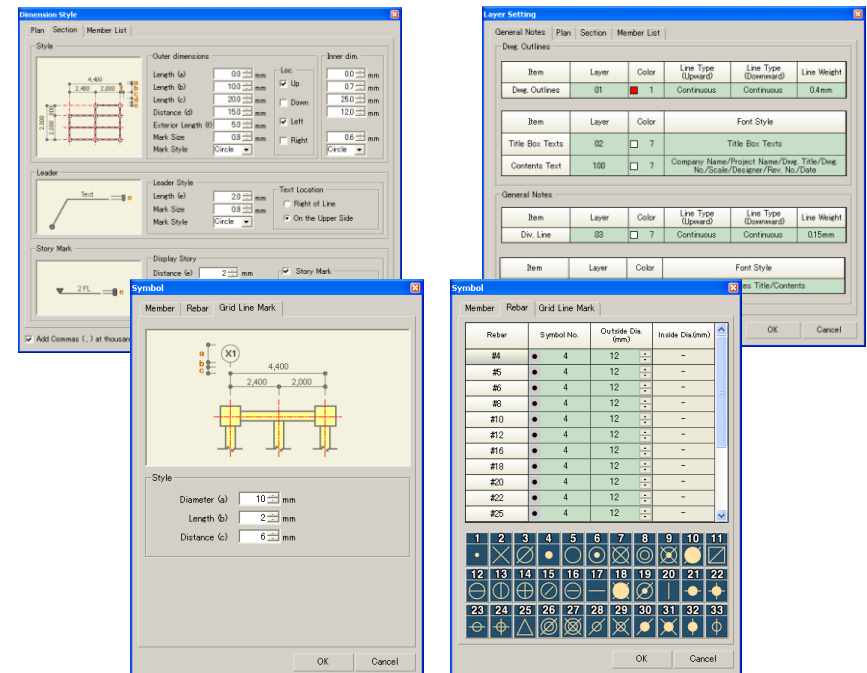
Easy to update the Eccentricities of members to reflect the architectural finishes

- Offset-Move for Beam, Column, Bracing & Wall
- Offset-Move by members & groups



Drawing Production Environment selection

- Layer, Text Style, Dimension Style & Symbol selection functions
- Symbol (Member Mark, Rebar Designation & Grid Mark) selection functions
- Saving & recalling selected environment



Auto-generation of B.O.M.

The Bill Of Materials function displays the reinforcement material quantity for construction using wall design results.

B.O.M. Summary Table

2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	32.	33.	34.	35.	36.	37.	38.	39.	40.	41.	42.	43.	44.	45.	46.	47.	48.	49.	50.	51.	52.	53.	54.	55.	56.	57.	58.	59.	60.	61.	62.	63.	64.	65.	66.	67.	68.	69.	70.	71.	72.	73.	74.	75.	76.	77.	78.	79.	80.	81.	82.	83.	84.	85.	86.	87.	88.	89.	90.	91.	92.	93.	94.	95.	96.	97.	98.	99.	100.	101.	102.	103.	104.	105.	106.	107.	108.	109.	110.	111.	112.	113.	114.	115.	116.	117.	118.	119.	120.	121.	122.	123.	124.	125.	126.	127.	128.	129.	130.	131.	132.	133.	134.	135.	136.	137.	138.	139.	140.	141.	142.	143.	144.	145.	146.	147.	148.	149.	150.	151.	152.	153.	154.	155.	156.	157.	158.	159.	160.	161.	162.	163.	164.	165.	166.	167.	168.	169.	170.	171.	172.	173.	174.	175.	176.	177.	178.	179.	180.	181.	182.	183.	184.	185.	186.	187.	188.	189.	190.	191.	192.	193.	194.	195.	196.	197.	198.	199.	200.	201.	202.	203.	204.	205.	206.	207.	208.	209.	210.	211.	212.	213.	214.	215.	216.	217.	218.	219.	220.	221.	222.	223.	224.	225.	226.	227.	228.	229.	230.	231.	232.	233.	234.	235.	236.	237.	238.	239.	240.	241.	242.	243.	244.	245.	246.	247.	248.	249.	250.	251.	252.	253.	254.	255.	256.	257.	258.	259.	260.	261.	262.	263.	264.	265.	266.	267.	268.	269.	270.	271.	272.	273.	274.	275.	276.	277.	278.	279.	280.	281.	282.	283.	284.	285.	286.	287.	288.	289.	290.	291.	292.	293.	294.	295.	296.	297.	298.	299.	300.	301.	302.	303.	304.	305.	306.	307.	308.	309.	310.	311.	312.	313.	314.	315.	316.	317.	318.	319.	320.	321.	322.	323.	324.	325.	326.	327.	328.	329.	330.	331.	332.	333.	334.	335.	336.	337.	338.	339.	340.	341.	342.	343.	344.	345.	346.	347.	348.	349.	350.	351.	352.	353.	354.	355.	356.	357.	358.	359.	360.	361.	362.	363.	364.	365.	366.	367.	368.	369.	370.	371.	372.	373.	374.	375.	376.	377.	378.	379.	380.	381.	382.	383.	384.	385.	386.	387.	388.	389.	390.	391.	392.	393.	394.	395.	396.	397.	398.	399.	400.	401.	402.	403.	404.	405.	406.	407.	408.	409.	410.	411.	412.	413.	414.	415.	416.	417.	418.	419.	420.	421.	422.	423.	424.	425.	426.	427.	428.	429.	430.	431.	432.	433.	434.	435.	436.	437.	438.	439.	440.	441.	442.	443.	444.	445.	446.	447.	448.	449.	450.	451.	452.	453.	454.	455.	456.	457.	458.	459.	460.	461.	462.	463.	464.	465.	466.	467.	468.	469.	470.	471.	472.	473.	474.	475.	476.	477.	478.	479.	480.	481.	482.	483.	484.	485.	486.	487.	488.	489.	490.	491.	492.	493.	494.	495.	496.	497.	498.	499.	500.	501.	502.	503.	504.	505.	506.	507.	508.	509.	510.	511.	512.	513.	514.	515.	516.	517.	518.	519.	520.	521.	522.	523.	524.	525.	526.	527.	528.	529.	530.	531.	532.	533.	534.	535.	536.	537.	538.	539.	540.	541.	542.	543.	544.	545.	546.	547.	548.	549.	550.	551.	552.	553.	554.	555.	556.	557.	558.	559.	560.	561.	562.	563.	564.	565.	566.	567.	568.	569.	570.	571.	572.	573.	574.	575.	576.	577.	578.	579.	580.	581.	582.	583.	584.	585.	586.	587.	588.	589.	590.	591.	592.	593.	594.	595.	596.	597.	598.	599.	600.	601.	602.	603.	604.	605.	606.	607.	608.	609.	610.	611.	612.	613.	614.	615.	616.	617.	618.	619.	620.	621.	622.	623.	624.	625.	626.	627.	628.	629.	630.	631.	632.	633.	634.	635.	636.	637.	638.	639.	640.	641.	642.	643.	644.	645.	646.	647.	648.	649.	650.	651.	652.	653.	654.	655.	656.	657.	658.	659.	660.	661.	662.	663.	664.	665.	666.	667.	668.	669.	670.	671.	672.	673.	674.	675.	676.	677.	678.	679.	680.	681.	682.	683.	684.	685.	686.	687.	688.	689.	690.	691.	692.	693.	694.	695.	696.	697.	698.	699.	700.	701.	702.	703.	704.	705.	706.	707.	708.	709.	710.	711.	712.	713.	714.	715.	716.	717.	718.	719.	720.	721.	722.	723.	724.	725.	726.	727.	728.	729.	730.	731.	732.	733.	734.	735.	736.	737.	738.	739.	740.	741.	742.	743.	744.	745.	746.	747.	748.	749.	750.	751.	752.	753.	754.	755.	756.	757.	758.	759.	760.	761.	762.	763.	764.	765.	766.	767.	768.	769.	770.	771.	772.	773.	774.	775.	776.	777.	778.	779.	780.	781.	782.	783.	784.	785.	786.	787.	788.	789.	790.	791.	792.	793.	794.	795.	796.	797.	798.	799.	800.	801.	802.	803.	804.	805.	806.	807.	808.	809.	810.	811.	812.	813.	814.	815.	816.	817.	818.	819.	820.	821.	822.	823.	824.	825.	826.	827.	828.	829.	830.	831.	832.	833.	834.	835.	836.	837.	838.	839.	840.	841.	842.	843.	844.	845.	846.	847.	848.	849.	850.	851.	852.	853.	854.	855.	856.	857.	858.	859.	860.	861.	862.	863.	864.	865.	866.	867.	868.	869.	870.	871.	872.	873.	874.	875.	876.	877.	878.	879.	880.	881.	882.	883.	884.	885.	886.	887.	888.	889.	890.	891.	892.	893.	894.	895.	896.	897.	898.	899.	900.	901.	902.	903.	904.	905.	906.	907.	908.	909.	910.	911.	912.	913.	914.	915.	916.	917.	918.	919.	920.	921.	922.	923.	924.	925.	926.	927.	928.	929.	930.	931.	932.	933.	934.	935.	936.	937.	938.	939.	940.	941.	942.	943.	944.	945.	946.	947.	948.	949.	950.	951.	952.	953.	954.	955.	956.	957.	958.	959.	960.	961.	962.	963.	964.	965.	966.	967.	968.	969.	970.	971.	972.	973.	974.	975.	976.	977.	978.	979.	980.	981.	982.	983.	984.	985.	986.	987.	988.	989.	990.	991.	992.	993.	994.	995.	996.	997.	998.	999.	1000.
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Standard Hooks

90° Standard Hooks

180° Standard Hooks

Rebar Size (Nominal)

Rebar Size (Nominal)	Rebar Size (Actual)	Hook Dia.	90 Standard Hooks	180 Standard Hooks
4 (#4)	4	32	36	24
5 (#5)	5	40	45	30
6 (#6)	6	48	54	36
8 (#8)	8	64	72	49
10 (#10)	10	80	90	61
12 (#12)	12	96	108	73
16 (#16)	16	128	144	97
18 (#18)	18	144	162	109
20 (#20)	20	160	180	121
22 (#22)	22	176	198	134
25 (#25)	25	200	225	152
28 (#28)	28	224	252	170
32 (#32)	32	256	288	194

Auto-generated quantity takeoff

Drawing Edit (CAD)

- Drafting & Editing functions identical to AutoCAD.
- Variety of functions for drafting by member units
- Many functions related to drafting symbols
- Drawings saved into DWG / DXF / DGN file formats

1F Plan Drawing

Slab (S)

Member List Key Plan (M)

Stair (T)

Symbol (Y)

Line (L)

Multiline (D)

Polyline (P)

Polygon (Y)

Rectangle (G)

Arc (A)

Circle (C)

Ellipse (E)

Text (T)

Block (B)...

Hatch (H)

Divider

MIDAS/DrawingShop

File (F) Edit (E) View (V) Insert (I) Format (O) Draw (D) Dimension (N) Modify (M) Tools (T) Window (W) Help (H)

Model View Layout#0

General Notes

1	General	Comply with the referenced standards/codes unless noted otherwise. (1) American Concrete Institute Notes on ACI 318-07 Building Code (2) American Concrete Institute Building Code and Commentary (3) American Concrete Institute ACI Detailing Manual-2004 (4) American Concrete Institute Detailing For Steel Construction (5) American Concrete Institute Structural Design Guide to the AISC (LRFD) Specification for Buildings (6) American Concrete Institute Structural Design Guide to the AISC (ASD)																																																																																																																																																																									
2	Material	<table border="1"> <thead> <tr> <th>FL.</th> <th>Structural Material</th> <th>Concrete</th> <th>Fc (N/mm²)</th> <th>Main Rebars</th> <th>Add'l Rebars</th> <th>Steel Grade</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>ROOF</td> <td>Reinforced Concrete</td> <td>M25</td> <td>25</td> <td>Fe415</td> <td>Fe250</td> <td>-</td> <td></td> </tr> <tr> <td rowspan="3">7F</td> <td>SRC</td> <td>M25</td> <td>25</td> <td>Fe415</td> <td>Fe250</td> <td>-</td> <td></td> </tr> <tr> <td>Reinforced Concrete</td> <td>M25</td> <td>25</td> <td>Fe415</td> <td>Fe250</td> <td>-</td> <td></td> </tr> <tr> <td>Steel</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>Fe410WB</td> <td></td> </tr> <tr> <td rowspan="3">6F</td> <td>SRC</td> <td>M25</td> <td>25</td> <td>Fe415</td> <td>Fe250</td> <td>-</td> <td></td> </tr> <tr> <td>Reinforced Concrete</td> <td>M25</td> <td>25</td> <td>Fe415</td> <td>Fe250</td> <td>-</td> <td></td> </tr> <tr> <td>Steel</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>Fe410WB</td> <td></td> </tr> <tr> <td rowspan="3">5F</td> <td>SRC</td> <td>M25</td> <td>25</td> <td>Fe415</td> <td>Fe250</td> <td>-</td> <td></td> </tr> <tr> <td>Reinforced Concrete</td> <td>M25</td> <td>25</td> <td>Fe415</td> <td>Fe250</td> <td>-</td> <td></td> </tr> <tr> <td>Steel</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>Fe410WB</td> <td></td> </tr> <tr> <td rowspan="3">4F</td> <td>SRC</td> <td>M25</td> <td>25</td> <td>Fe415</td> <td>Fe250</td> <td>-</td> <td></td> </tr> <tr> <td>Reinforced Concrete</td> <td>M25</td> <td>25</td> <td>Fe415</td> <td>Fe250</td> <td>-</td> <td></td> </tr> <tr> <td>Steel</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>Fe410WB</td> <td></td> </tr> <tr> <td rowspan="3">3F</td> <td>SRC</td> <td>M25</td> <td>25</td> <td>Fe415</td> <td>Fe250</td> <td>-</td> <td></td> </tr> <tr> <td>Reinforced Concrete</td> <td>M25</td> <td>25</td> <td>Fe415</td> <td>Fe250</td> <td>-</td> <td></td> </tr> <tr> <td>Steel</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>Fe410WB</td> <td></td> </tr> <tr> <td rowspan="2">2F</td> <td>SRC</td> <td>M25</td> <td>25</td> <td>Fe415</td> <td>Fe250</td> <td>-</td> <td></td> </tr> <tr> <td>Reinforced Concrete</td> <td>M25</td> <td>25</td> <td>Fe415</td> <td>Fe250</td> <td>-</td> <td></td> </tr> <tr> <td rowspan="2">1F</td> <td>SRC</td> <td>M25</td> <td>25</td> <td>Fe415</td> <td>Fe250</td> <td>-</td> <td></td> </tr> <tr> <td>Reinforced Concrete</td> <td>M25</td> <td>25</td> <td>Fe415</td> <td>Fe250</td> <td>-</td> <td></td> </tr> <tr> <td>B1F</td> <td>Reinforced Concrete</td> <td>M25</td> <td>25</td> <td>Fe415</td> <td>Fe250</td> <td>-</td> <td></td> </tr> </tbody> </table>						FL.	Structural Material	Concrete	Fc (N/mm ²)	Main Rebars	Add'l Rebars	Steel Grade	Notes	ROOF	Reinforced Concrete	M25	25	Fe415	Fe250	-		7F	SRC	M25	25	Fe415	Fe250	-		Reinforced Concrete	M25	25	Fe415	Fe250	-		Steel	-	-	-	-	Fe410WB		6F	SRC	M25	25	Fe415	Fe250	-		Reinforced Concrete	M25	25	Fe415	Fe250	-		Steel	-	-	-	-	Fe410WB		5F	SRC	M25	25	Fe415	Fe250	-		Reinforced Concrete	M25	25	Fe415	Fe250	-		Steel	-	-	-	-	Fe410WB		4F	SRC	M25	25	Fe415	Fe250	-		Reinforced Concrete	M25	25	Fe415	Fe250	-		Steel	-	-	-	-	Fe410WB		3F	SRC	M25	25	Fe415	Fe250	-		Reinforced Concrete	M25	25	Fe415	Fe250	-		Steel	-	-	-	-	Fe410WB		2F	SRC	M25	25	Fe415	Fe250	-		Reinforced Concrete	M25	25	Fe415	Fe250	-		1F	SRC	M25	25	Fe415	Fe250	-		Reinforced Concrete	M25	25	Fe415	Fe250	-		B1F	Reinforced Concrete	M25	25	Fe415	Fe250	-	
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Command:

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MIDAS/DrawingShop

File (F) Edit (E) View (V) Model (M) Structural Drawings (Q) Query (Q) Tools (T) Window (W) Help (H)

Drawing Menu

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Plan View

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- 7F
- 6F
- 5F
- 4F
- 3F
- 2F
- 1F
- B1F

1F Model View 2F B.O.M Layout#3 7F Layout#2

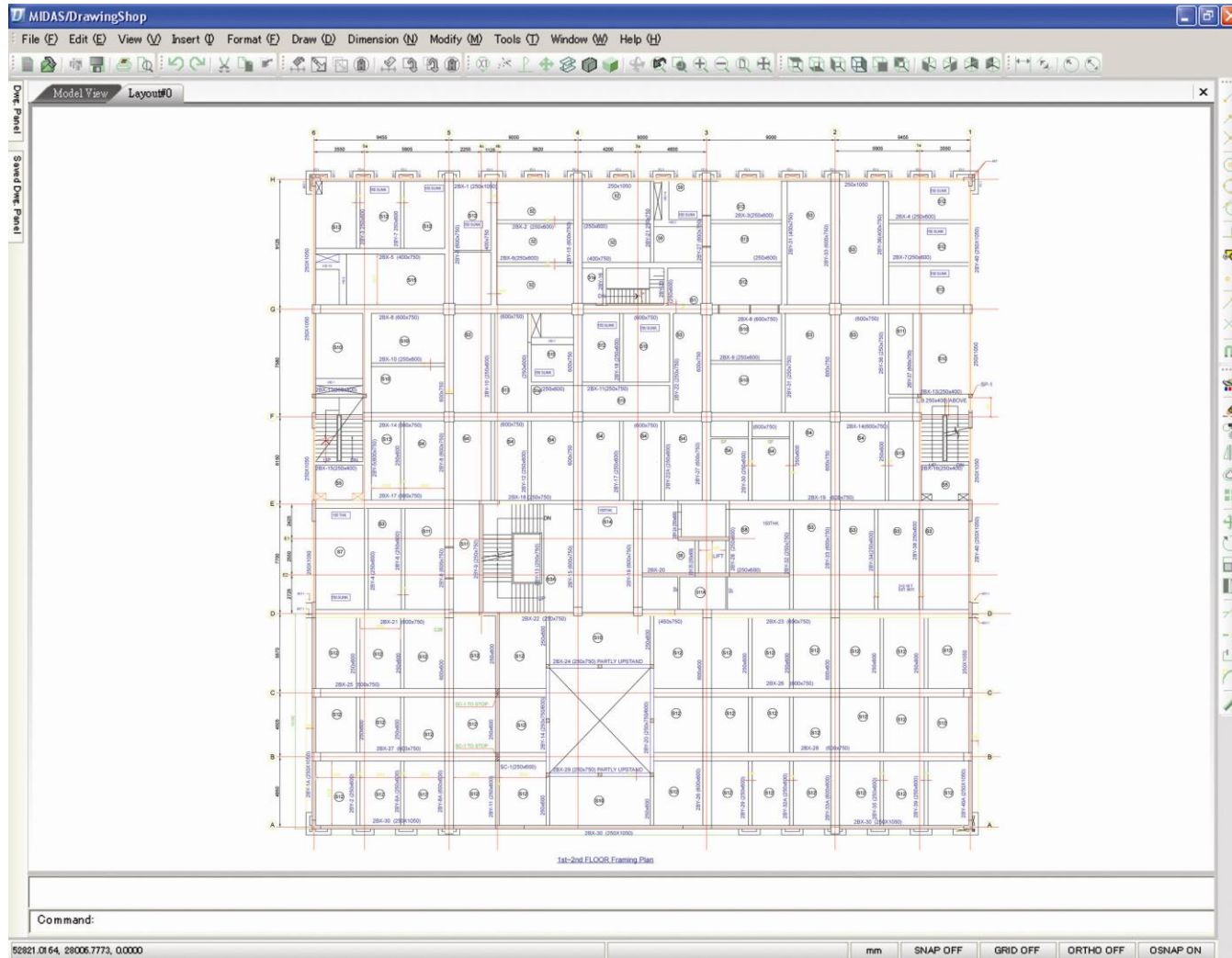
A1 B.O.M Summary Table

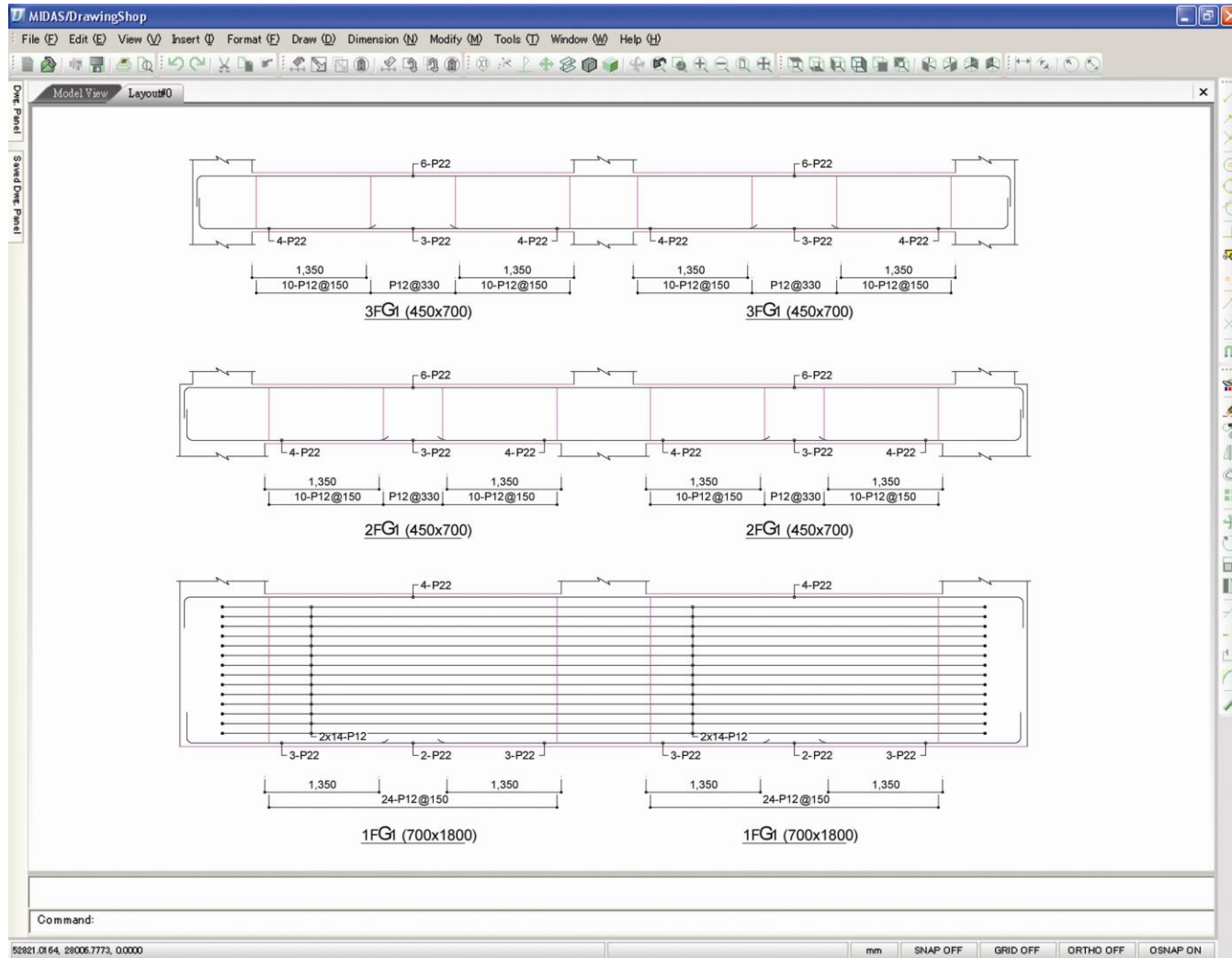
	A	B	C	D	E	F	G	H	I	J	K	L
1	B.O.M Summary Table											
2	o. of store	Items	Concrete(m³)	Rebars(t)			Mech. Splices(EA)	Formwork(m²)	Steel(t)	Remarks		
3			25kg/cwt	#10	#12	#20						
4	ROOF	Beam	7.9	0.00	0.00	0.00	0	65.7	0.00			
5		Col.	0.0	0.00	0.00	0.00	0	0.0	0.00			
6		Brace	0.0	0.00	0.00	0.00	0	0.0	0.00			
7		Slab	0.0	0.00	0.00	0.00	0	0.0	0.00			
8		Wall	0.0	0.00	0.00	0.00	0	0.0	0.00			
9	7F	Beam	18.1	0.00	0.00	0.00	0	145.0	24.36			
10		Col.	6.2	0.03	0.01	0.06	0	62.4	0.00			
11		Brace	0.0	0.00	0.00	0.00	0	0.0	0.00			
12		Slab	0.0	0.00	0.00	0.00	0	0.0	0.00			
13		Wall	0.0	0.00	0.00	0.00	0	0.0	0.00			
14	6F	Beam	14.6	0.00	0.00	0.00	0	115.8	20.15			
15		Col.	41.1	0.10	0.01	0.16	0	298.4	3.68			
16		Brace	0.0	0.00	0.00	0.00	0	0.0	0.00			
17		Slab	0.0	0.00	0.00	0.00	0	0.0	0.00			
18		Wall	9.3	0.02	0.02	0.00	0	46.6	0.00			
19	5F	Beam	16.0	0.00	0.00	0.00	0	127.1	19.91			
20		Col.	41.1	0.10	0.01	0.18	0	298.4	3.68			
21		Brace	0.0	0.00	0.00	0.00	0	0.0	0.00			
22		Slab	0.0	0.00	0.00	0.00	0	0.0	0.00			
23		Wall	9.3	0.02	0.03	0.00	0	46.6	0.00			
24	4F	Beam	16.0	0.00	0.00	0.00	0	127.1	19.91			
25		Col.	41.1	0.09	0.01	0.18	0	298.4	3.68			
26		Brace	0.0	0.00	0.00	0.00	0	0.0	0.00			
27		Slab	0.0	0.00	0.00	0.00	0	0.0	0.00			
28		Wall	9.3	0.02	0.03	0.00	0	46.6	0.00			
29	3F	Beam	0.0	0.00	0.00	0.00	0	0.0	9.20			
30		Col.	33.8	0.12	0.00	0.16	0	244.8	3.02			
31		Brace	0.0	0.00	0.00	0.00	0	0.0	0.00			
32		Slab	0.0	0.00	0.00	0.00	0	0.0	0.00			
33		Wall	4.3	0.01	0.01	0.00	0	21.6	0.00			
34	2F	Beam	63.1	0.00	0.00	0.00	0	438.5	0.00			
35		Col.	19.0	0.13	0.00	0.10	0	137.7	1.70			
36		Brace	0.0	0.00	0.00	0.00	0	0.0	0.00			
37		Slab	0.0	0.00	0.00	0.00	0	0.0	0.00			
38		Wall	4.3	0.01	0.01	0.00	0	21.5	0.00			
39	1F	Beam	60.2	0.00	0.00	0.00	0	521.8	0.00			
40		Col.	37.1	0.12	0.03	0.27	0	279.6	1.31			

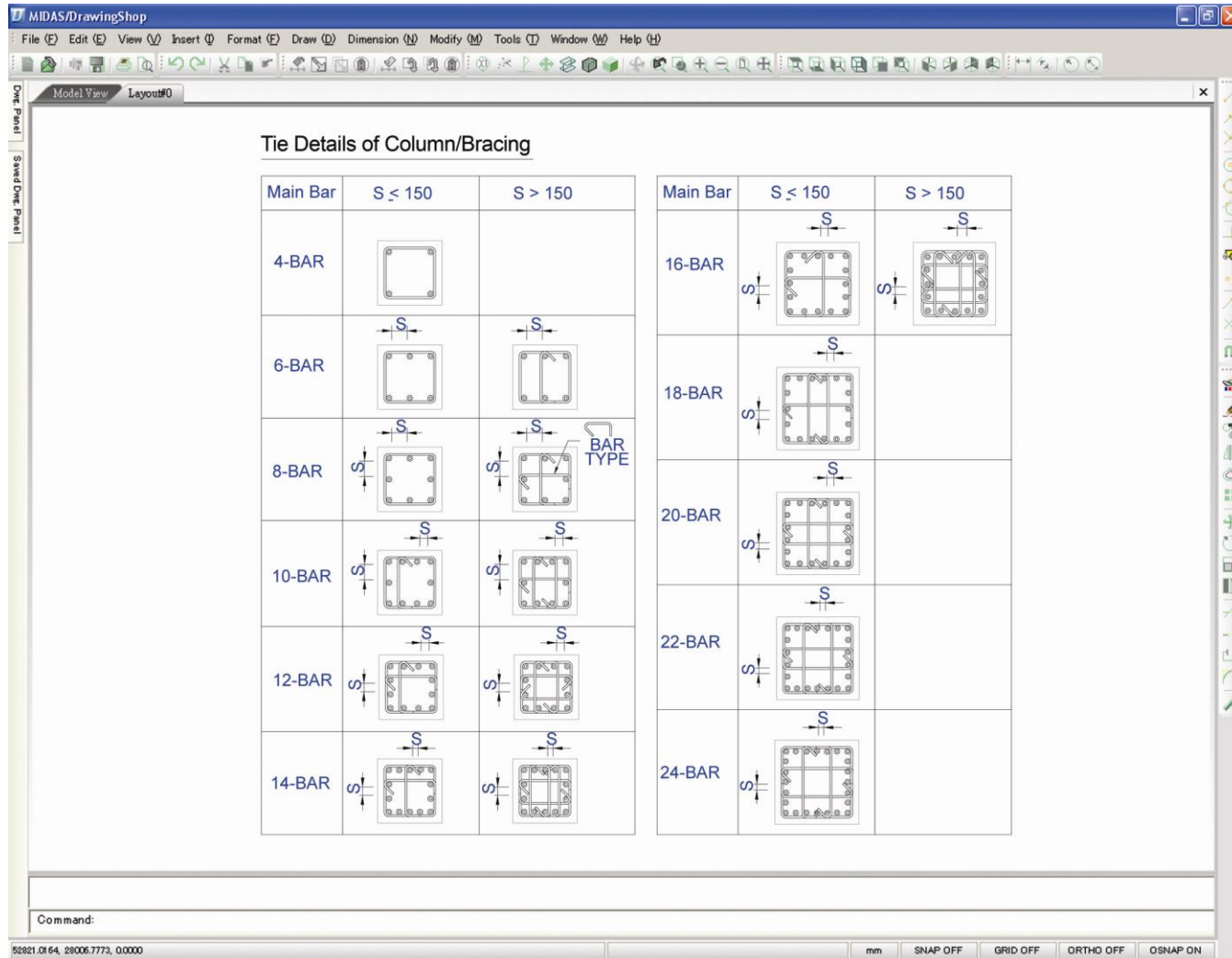
Plan View Sectional View

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MIDAS/DrawingShop

File (F) Edit (E) View (V) Insert (I) Format (O) Draw (D) Dimension (M) Modify (M) Tools (T) Window (W) Help (H)

Model View Layout#0

Section	800x800	700x700	700x700	700x700	600x600	600x600
Size	800x800	700x700	700x700	700x700	600x600	600x600
Main Rebars	• 18-P20	• 14-P20	• 14-P20	• 14-P20	• 10-P20	• 10-P20
Joint	<input type="checkbox"/> P12@150	<input type="checkbox"/> P12@200	<input type="checkbox"/> P12@200	<input type="checkbox"/> P12@200	<input type="checkbox"/> P12@230	<input type="checkbox"/> P12@230
Ends	<input type="checkbox"/> P10@150	<input type="checkbox"/> P10@200	<input type="checkbox"/> P10@200	<input type="checkbox"/> P10@200	<input type="checkbox"/> P10@230	<input type="checkbox"/> P10@230
Middle	<input type="checkbox"/> P10@100	<input type="checkbox"/> P10@100	<input type="checkbox"/> P10@100	<input type="checkbox"/> P10@100	<input type="checkbox"/> P10@100	<input type="checkbox"/> P10@100
Notes	-	-	-	-	-	-

Section	800x800	700x700	700x700	700x700	600x600	600x600
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Ends	<input type="checkbox"/> P10@150	<input type="checkbox"/> P10@200	<input type="checkbox"/> P10@200	<input type="checkbox"/> P10@200	<input type="checkbox"/> P10@230	<input type="checkbox"/> P10@230
Middle	<input type="checkbox"/> P10@100	<input type="checkbox"/> P10@100	<input type="checkbox"/> P10@100	<input type="checkbox"/> P10@100	<input type="checkbox"/> P10@100	<input type="checkbox"/> P10@100
Notes	-	-	-	-	-	-

Command:

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