BUILDING EVALUATION SUMMARY (Table 3410.7)

Existing occupancy			Proposed occupancy		
Year building was constructe					t in feet
Type of construction			A		
Percentage of frontage			Corridor wall rating		
Completely suppressed:	Yes	No			
Compartmentation:	Yes	No			
Fireresistance rating of verti	cal opening enclosures				
Type of HVAC system			serving number of floors		
Automatic fire detection:	Yes		type and location		
Fire alarm system:	Yes		type		
Smoke control:	Yes		type		
Adequate exit routes:	Yes	No		Yes	10111101111
Maximum exit access travel			Elevator controls:	Yes	
Means of egress emergency	/ lighting: Yes	-	Mixed occupancies:	Yes	
Safety		Fire	Means		General
parameters		safety (FS)	of egress (ME)	safety (GS)
3410.6.1 Building height		_			
3410.6.2 Building area		-			
3410.6.3 Compartmentation					
3410.6.4 Tenant and dwellin	g unit separations				
3410.6.5 Corridor walls					
3410.6.6 Vertical openings					
3410.6.7 HVAC systems			-		
3410.6.8 Automatic fire dete	ection		_		
3410.6.9 Fire alarm system		_	-		
3410.6.10 Smoke control		* * * *	-		
3410.6.11 Means of egress		* * * *			
3410.12 Dead ends		* * * *			
3410.13 Max. exit access tra	avel distance	* * * *			
3410.6.14 Elevator control					
3410.6.15 Means of egress	emergency lighting	* * * *			
3410.6.16 Mixed occupancie	es	-	* * * *		
3410.6.17 Automatic sprinkl			÷ 2 =		
3410.6.18 Incidental use are					
Building score — total value					
* * * * No applicable value to	be inserted.				
	BUILDING SAI	FETY EVALUA	TION SCORE (Table 34)	10.9)	
Formula Table	e 3410.7	Table 3410.8		Pass	Fail
FS-MFS ≥ 0	(FS) —		(MFS) =		
ME-MME ≥ 0	(PS) — (ME) —		(MME) =	 _	
GS-MGS ≥ 0	(M2)		(MGS) =	_	-
	(35)			-	-
FS = Fire Safety		MFS	 Mandatory Fire Safe 	₩.	
ME = Means of Egres	s	MME	= Mandatory Means of the control	_	
GS = General Safety		MGS	 Mandatory General 	Safety	
		A B B E LIE	050.4		
		APPENDI	CES A - J		
Append	lices adopted (101.2	2.1)	Comp	liance verified	

RUSBU



2003 INTERNATIONAL BUILDING CODE®

2003 PLAN REVIEW RECORD

Plan Review # 05 06 3 0

Date: 6/3/05

Valuation: 2, 4/0, 000

U IDIODIOTION	Dona on	
JURISDICTION: _	PORTLAND	100

(City, County, Township, etc.)

Street address)

BUILDING DESCRIPTION: /

BO MEBRANE STRUCT

EVIEWED BY:

BUILDING LOCATION:

Numerals indicated in parenthesis are applicable code sections of the 2003 International Building Code. The plan review accomplished as indicated in this record is limited to those code sections specifically identified herein. This record reference commonly applicable code sections. It does not reference all code provisions which may be applicable to specific buildings. This record is designed to be used only by those who are knowledgeable and capable of exercising competent judgement in evaluating construction documents for code compliance.

CORRECTION LIST

No.	DESCRIPTION	Section
1	DE FLAME RES.	
	OF FLAME RES	
	/	
2	STAIRS / GUARDS	
975.1		
	ASCHRAR OR 16 PC COMP.	



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STRUCTURAL MATERIALS	6 (Chapters 19, 21, 22, 23)
CONCRETE	(Chapter 19)
Plain and reinforced concrete design/construction standard specified (1901.2, 1908)	Hot weather and cold weather curing specified (1905.12,1905.13)
Construction documents (1901.4)	Seismic design (1910)
	Slab provisions (1911)
Minimum concrete strength (Table 1904.2.2[2])	
MASONRY	(Chapter 21)
Design method, construction standard specified (2101.2)	Cold weather and hot weather construction specified (2104.3, 2104.4)
Construction decuments (2101.3)	Seismic design (2106)
Construction materials (2103)	Glass unit masonry (2110)
Mortar type (2103.7)	Fireplaces/Heaters/Chimneys (2111, 2112, 2113)
STEEL (C	chapter 22)
Structural steel design/construction standard specified (2205)	Cold-formed steel design/construction standard specified (2209)
Open-web steel joist design/construction standard specified (2206)	Light framed cold-formed steel design/ construction standard specified (2210)
Steel cable structures (2207)	Wind/seismic design of light-framed,
Steel storage racks (2208)	cold-formed steel shear walls (2211)
WOOD (C	Chapter 23)
Design method option used (2301.2)	Heavy timber construction (2304.10)
MATERIAL STANDARDS / CONSTRUCTION REQUIREMENTS (2303 - 2306)	Shear walls and diaphragms (2305, 2306)
Lumber (2303.1.1)	CONVENTIONAL LIGHT-FRAME CONSTRUCTION (2308)
Wood I-joists (2303.1.2)	Limitations satisfied (2308.2)
Glue laminated timbers (2303.1.3) Wood structural panels	Wind/Seismic requirements (2308.2.1, 2308.2.2, 2308.11, 2308.12)
(2303.1.4, 2304.6, 2304.7)	Braced walls (2308.3, 2308.9.3)
Fiber-, hard-, & particle-, boards (2303.1.5 - 2303.1.7)	Foundation anchorage (2308.3.3, 2308.6)
Decay and termite protection (2303.1.8, 2304.11)	Floor joists (Tables 2308.8[1], 2308.8[2])
structural composite lumber (2303.1.9)	Wall studs (Table 2308.9.1)
Fire-retardant-treated wood (2303.2)	Girders (Tables 2308.9.5, 2308.9.6)
Hardwood plywood (2303.3)	Ceiling joists (Tables 2308.10.2[1], 2308.10.2[2])
Metal plate connected trusses (2303.4)	Roof rafters (Tables 2308.10.3.[1] -
Joist hangers and connectors (2303.5)	2308.10.3[6])
Fasteners and fastening (2303.6, 2304.9, Table 2304.9.1)	Roof uplift (2308.10.1)

	CORRECTION LIST (cont'd.)	
No.	DESCRIPTION	Code Section
_		
-		

-1

INTERIOR ENVIRONMENT (Chapter 12)

Ventilation/openings (1203) Temperature control (1204) Lighting (1205) Yards or courts (1206)	Sound transmission (1207) Interior space dimensions (1208) Access to unoccupied spaces (1209) Surrounding materials (1210, 2509)
	Chapters 13*, 14, 15) Code Plan Review Record
EXTERIOR WAL	LS (Chapter 14)
Performance requirements (1403)	Exterior wall coverings/MCM's (1405, 1407)
Materials (1404)	Combustible material restrictions (1406)
ROOF ASSEMBLIES AND ROOF	TOP STRUCTURES (Chapter 15)
Weather protection (1503)	Materials (1506)
Flashing (1503.2, 1507.2.9, 1507.3.9,	Roof coverings (1507)
1507.5.6, 1507.7.6, 1507.8.7, 1507.9.8)	Roof insulation (1508)
Performance requirements (1504)	Rooftop structures (1509)
Fire classification (1505)	Reroofing (1510)
_	Sign (Chapter 16) Live load reduction $(1603.1.1, 1607.9, 1607.10)$ Roof live loads $(1603.1.2, 1607.11)$ Roof snow loads $(1603.1.3, 1608)$ Ground snow load, P_g (1608.2) If $P_g > 10$ psf, flat-roof snow load, P_f (1608.3) If $P_g > 10$ psf, snow exposure factor, C_e $(Table\ 1608.3.1)$ If $P_g > 10$ psf, snow load importance factor, I_s $(Table\ 1604.5)$ Roof thermal factor, C_t $(Table\ 1608.3.2)$ Sloped roof snowload, P_s (1608.4)

NOTES: N.R. — Not required N.A. — Not applicable

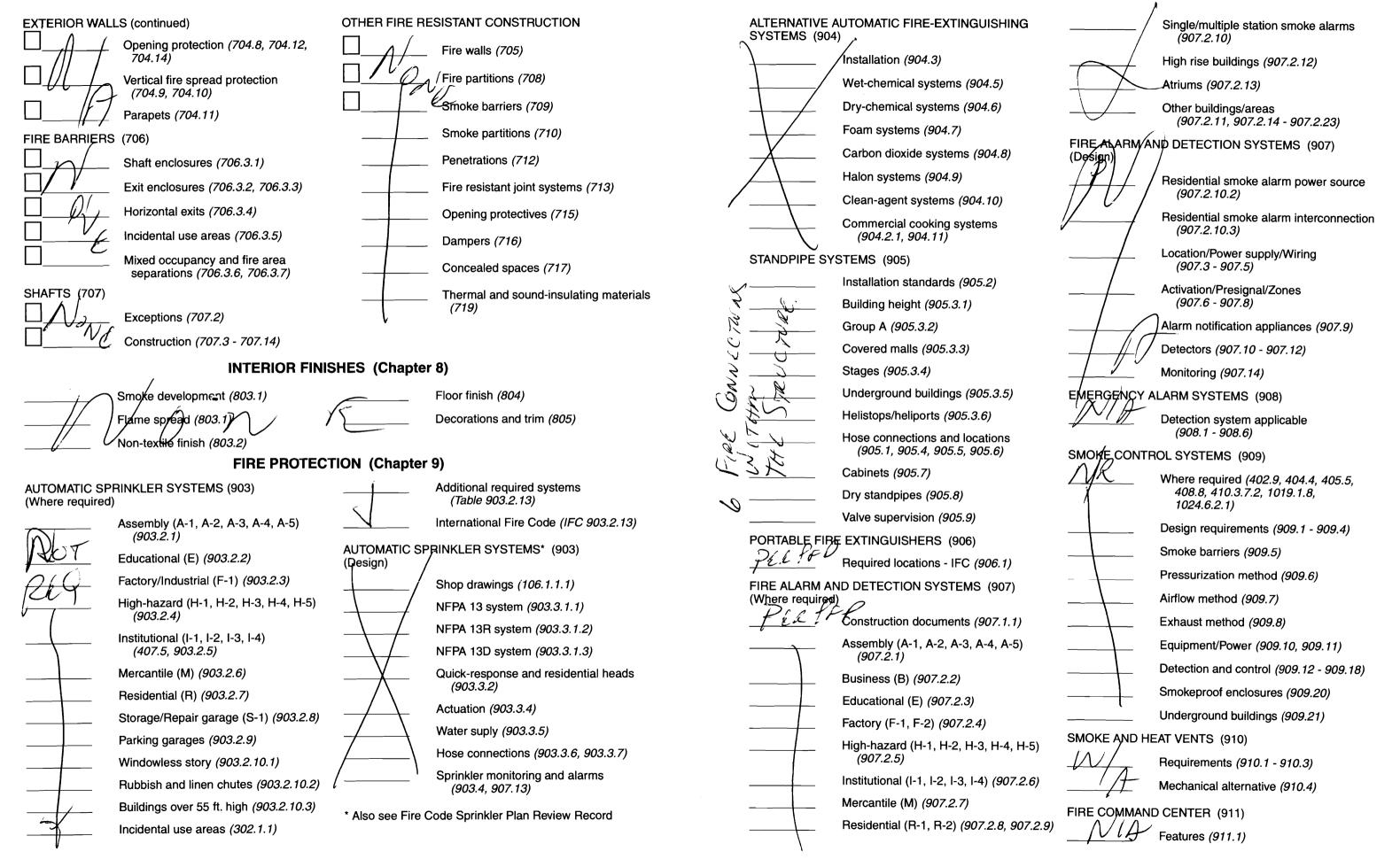
	ADMINISTRATION	ON (Chapter 1)
$\overline{}$	Complete construction documents (106.1, 106.2)	Signed/sealed construction documents (106.1, State laws vary)
	BUILDING PLANNING	G (Chapters 3, 4, 5, 6)
. /	OCCUPANCY CLASSIF	FICATION (302.0-312.0)
	Single Occupancy (302.1)	Incidental use areas (302.1.1)
	Mixed Occupancy (302.3)	Accessory use areas (302.2)
	GENERAL BUILDING LIMI	TATIONS (Chapters 5 & 6)
ingle occupan	ncy or nonseparated mixed occupancies. Appl s of construction for a building containing sep	nd permitted types of construction for a building containing a ly Case 2 to determine the allowable height and area and arated mixed occupancies. ONS TO TABLE 503
	$\frac{+ 0\%}{\text{ge factor}}$	Frontage (506.2) $\frac{3 \sqrt{9}}{North}$ $\frac{170}{East}$ $\frac{3 \sqrt{9}}{South}$ $\frac{170}{West}$ Total Frontage (F) $\frac{97}{5}$ ft. Perimeter (P) $\frac{97}{5}$ ft. Width of open space (W) = $\frac{4 \sqrt{2} \sqrt{2} \sqrt{3}}{\sqrt{5}}$ % Frontage increase (If) = $\frac{13590}{11}$ (506.2)
nixed occupar rea and allowa	is, identify the allowable height and area of the noies. Construction types that provide an allowable heights (as modified by Section 504) equal ERMINE CONSTRUCTION TYPE g area ft ² ing area ft ² actual building area + conversion factor	R NONSEPARATED USES (302.3.1) e single occupancy or the most restrictive of the nonseparated able tabular area equal to or greater than the adjusted building I to or greater than the actual building height are permitted. CHECK ALLOWABLE AREA (506.4) Allowable area per floor (Aa) conversion factor tabular area (Table 503) Total floor area (all stories)
	es of construction $240P$ uction assumed 3821.1	Allowable floor area (all stories) Allowable area per floor Allowable area per floor (A _a) (maximum 3) Compliance verified (Single Occ. or Nonsep.)

OCCUPANT NEEDS (Chapters 10, 11, 12)

MEANS OF EGRESS (Chapter 10)

OCCUPA	NT LOAD (1004.1.2 and Table	1004.1.2)		CAPACITY OF E	GRESS COMPONE e 1005.1)	NTS
Location	Floor Sq.ft./ Occt. Area person load (4230 - 500	Other occt. loads	Total // 0	Egress width (inc Stairways / Other egress CAPACITY		_
				Location	Stairways	Other egress components
	22 RE				NONE	Dexires 36
				NUMBER OF EX Location	ITS (1018.1, 1018.2 Required	Shown

HIGH-RISE BUIL	_DINGS (403)	OTHER SPECIA	AL USE AND OCCUPANCY
	Automatic sprinkler system (403.2)		Underground structures (405)
	Fire-resistance rating reduction (403.3)		
	Automatic fire detection (403.5)		Motor vehicle related occupancies (406, 508)
	Emergency voice/alarm systems (403.6)		Group I-2 (407)
	Fire department communication (403.7)		Group I-3 <i>(408)</i>
	Fire command center (403.8)	/	Motion picture projection rooms (409)
	Elevators (403.9)		Stages and platforms (410)
	Standby power (403.10)		,
	Emergency power (403.11)		Special amusement buildings (411)
	Stairway doors (403.12)		Aircraft-related occupancies (412)
	Smokeproof exit (493.13)		Combustible storage (413)
ATRIUMS (404)			Hazardous materials (307.9, 414)
	Atrium use (404.2) Automatic sprinkler system (404.3)		Groups H-1, H-2, H-3, H-4, and H-5 (415)
	Smoke control (404.4)		Application of flampable finishes (416)
/	Enclosure (404.5)		
	Standby power (404.6)		Drying rooms (417)
	Interior finish (404.7)		Organic coatings manufacturing (418)
	Travel distance (404.8)		
	FIRE PROTECTION	(Chanters	6 7 8 9)
FIRE-	RESISTANCE-RATED CONSTRUC		· · ·
Note: Entry in	indicates required rating in hours. NC		MENTS (Table 601)
indicates noncom	nbustible construction required.		Structural frame (714)
70	Construction classification (602)		
COMBUSTIBILIT	Y (602.2, 602.3, 602.4, 602.5, 603)		Interior bearing walls
	Exterior walls		Interior nonbearing walls
	Interior elements		Floor construction (711)
	Roof		Roof construction (711)
FIRE-RESISTAN	CE RATINGS AND FIRE TESTS (703)	EXTERIOR WAL	LS (507, Table 602, 704, 706.6)
O	Ratings / Combustibility (703.2, 703.4)	Fire	North East South West
NA	Alternative methods (703.3, 718, 720, 721)	separation distance	A/-/-
	·	Bearing	



CASE 2 — MIXED OCCUPANCY SEPARATED USES (302.3.2)

Using Table 503, identify the allowable height and area of each of the separated uses within the building. Construction types that provide, for each story of the building, tabular areas (as modified by Section 506)which result in a sum of the ratios of 1.00 or less and allowable heights (as modified by Section 504) equal to or greater than the actual height of the use are per-

mitted.			-				•
Story	Group	Actual floor area	Adjusted floor area*	Actual height		Allowable height	
		ft ²	ft ²	ft	stories	ft	_stories
	\	\ft ²	ft ²	ft	stories _	ft	_stories
		ft ²	ft ²	ft	stories _	ft	_stories
		ft²	n	ft ft	støries _ stories	ft ft	_stories _stories
		tt ²	ft ²	ft	stories	ft	_stories
		ft ²	ft²	ft	stories _	ft	_stories
	djusted floor a				+	=	<100
	ab. area, <i>A, (</i> or area = actual fl	Table 503) oor area + conversion	factor				
		NABLE AREA (50		\times			
	area per floor	•					
conversion	×	= area <i>(Table 503)</i>	ft²	Permitted types	of construction _		
	area (all storie		rt ²	Type of construct	ion assumed		
	loor area (all			for review (602			
Allowable	oor area (an c	_	ft ²	Compliance verif	ind (Mixed One	Concreted)	
Allowable a		number of stories (maximum 3)		Compliance veri	led (IVIIXed Occ.	Separateu)	
			MEZZAN	IINES (505)			
	Area li	mitation (505.2)			Openness (505	5.4)	
	Egress	s (505.3)	_		Equipment plat	forms (505.5)	
		L	INLIMITED ARE	A BUILDINGS (50	7)		
	Unspri	nklered, one story	(507.1)		High-hazard us	e groups (507.6)	
	Sprink	lered, one story (507.2)		Aircraft paint ha	angar <i>(507.7)</i>	
	Two st	ory <i>(507.3)</i>			Group E buildin	ıgs <i>(507.8)</i>	
	Reduc	ed open space (5	07.4)		Motion picture	theaters (507.9)	
	Group	A√3 buildings (50	7.5)				
			SPECIAL PRO	OVISIONS (508)			
	Specia	d condition applica	able <i>(508.1)</i>		Compliance ver	rified	
SPE	CIAL DETA	ILED REQUIR	EMENTS BAS	SED ON USE A	ND OCCUPA	NCY (Chapter	4)
COVERED	MALL BUILD	DINGS (402)			Standpipe sys	tem (402.8.1)	
	Egress	s (402.4, 402.11)			Smoke control	(402.9)	
	Mall wi	dth (402.5)			Kiosk requiren	nents (402.10)	
		ed area (402.6)		_	Emergency vo (402.12, 40		
		parations (402.7)			Plastic signs (4	,	
	Automa	atie sprinkler syste	em <i>(402.8)</i>		• ,	nt access <i>(402.15</i>)
					The department	in access (402.13)	/

MEANS OF EGRESS (continued)

	GENERAL MEANS OF EGRESS					
NX NX	Design requirements (1003.2 - 1003.7) Means of egress illumination (1006) Exit signs (1011) Accessible means of egress (1007) Means of egress doors (1008.1-1008.1.2) Special doors/Gates/Turnstiles (1008.1.3, 1008.2, 1008.3)	Neal	Door landings/Thresholds/Arrangement (1008.1.4 -1008.1.7) Door hardware (1008.1.8, 1008.1.9) Stairways (1009) Handrails (1009.11) Roof access (1009.12) Ramps (1010) Guards (1012)			
	EXIT A	CCESS				
	Door number and arrangement (1013.2, 1014.1, 1014.2) Exit access travel distance (1013.3, 1015.1) Aisles (1013.4)	NON	Egress balconies (1013.5, 1015.3) Corridors (1016) Air movement in corridors (1016.4)			
	EXITS / EXIT	DISCHARGE				
- NONI	Exits/Exit doors (1017, 1018) Interior exit stairways (1019) Exit passageways (1020)	NERD	Horizontal exits (1021) Exterior exit ramps/stairways (1022) Exit discharge (1023)			
	OTHER MEAN	e oe eobecc				
	Miscellaneous egress requirements (1014.3 - 1014.6) Bleachers (1024.1.1) Assembly exits 8 egress (1024.2 - 1024.5)	- A	Assembly aisles & features (1024.6 -1024.15) Emergency escape and rescue (1025)			
	ACCESSIBILITY	(* (Chapter 11				
	Scoping requirements (1103) Accessible route (1104) Accessible entrances (1105) Parking and passenger loading (1106)	ATE -	Dwelling units and sleeping units (1107) Special occupancies (1108) Features and facilities (1109) Signage (1110)			
*Also see Access	sibility Plan Review Record					

	CORRECTION LIST (cont'd.)				
No.	DESCRIPTION	Code Section			
140.	DESCRIPTION	CCCIIOII			

	66	\bigcirc \mathscr{U}	at FORAL
DESIGN LOADS (continued)			Seismic design category (1616.3)
Wind loads (1603,1.4, 1609)		———)	Basic seismic-force-resisting system (Table 1617.6.2)
/	Design option utilized (1609.1.1, 1609.6)		•
	Basic wind speed (1609.3)		Response modification coefficient, <i>R</i> , and deflection amplification factor, <i>C_d</i> (<i>Table 1617.6.2</i>)
	Building category and wind importance factor, <i>I_w</i> (<i>Table 1604.5, 1609.5</i>)		Analysis procedure (1616.6, 1617.5)
	Wind exposure category (1609.4)		Design base shear (1617.4, 1617.5.1)
	Internal pressure coefficient (ASCE 7)	Flood loads (16	03 1 6 1612)
	Component and cladding pressures (1609.1.1, 1609.6.2.2)		Flood hazard area (1612.3)
	Main force wind pressures (1609.1.1, 1609.6.2.1)	Other loads	Elevation of structure
		Otherhoads	_
Earthquake des	ign data (1603.1.5, 1614 - 1623)		Concentrated loads (1607.4)
	Design option utilized (1614.1)		Partition loads (1607.5)
	Seismic use group ("Category") (Table 1604.5, 1616.2)		Impact loads (1607.8)
	Spectral response coefficients, S _{DS} & S _{D1} (1615.1)		Misc. loads (<i>Table 1607.6</i> , <i>1607.6.1</i> , <i>1607.7</i> , <i>1607.12</i> , <i>1607.13</i> , <i>1610</i> , <i>1611</i> , <i>2404</i>)
	Site class (1615.1.5)	•	
QUALITY ASSURANCE (Chapter 17)			
	Approvals/Research report(s) (1703, 1703.4.2) Report No		Wall panels and veneers/EIFS (1704.10, 1704.12)
	Owner's special inspection program specified (1704.1.1)	- NA	Sprayed fire-resistant materials (1704.11)
	Prefabricated items (1704.2)		Quality assurance plan - Seismic/Wind (1705, 1706)
/	Steel construction (1704.3)		,
	Concrete construction (1704.4)		Seismic resistance (1707)
WIA	Masonry construction (1704.5)		Structural testing/Observations (seismic) (1708, 1709)
NIA	Wood construction (1704.6)		Testing (other) (1710 - 1715)
	Prepared fill and foundations (1704.7, 1704.8, 1704.9)		
SOILS AND FOUNDATIONS (Chapter 18)			
	Soils investigations/Reports		Footings and foundations (1805)
	(1802.1, 1802.6)	NUNE	Retaining walls (1806)
/			
	Soil classification (1802.3)		. , ,
	Soil classification (1802.3) Excavation, grading and fill (1803)		Dampproofing and waterproofing (1807) Foundations (other types) (1808 - 1812)