MACFARLANE'S CASTINGS

WALTER MACFARLANE & Co. SARACEN FOUNDRY, GLASGOW

Volume 1

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TECHNICAL REFERENCE SERIES

MACFARLANE'S CASTINGS

WALTER MACFARLANE & Co
SARACEN FOUNDRY,
GLASGOW

CATALOGUE
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VOLUME 1

David S Mitchell

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PREFACE

The influence and reach of the Saracen Foundry of Walter MacFarlane and Co was truly global, yet like much of our industrial past we are only now starting to appreciate the innovative role that such firms played. The use of cast iron as a constructional medium in the pre-fabrication sense took off in the latter half of the 19th Century, and Scottish firms such George Smith and Co (Sun Foundry), McDowell Steven and Co (Milton Ironworks), and the Lion Foundry lead the market in exporting fountains, bandstands, railings and even entire buildings to India, Australia and South America. Whilst critics like Ruskin may have balked at the industrialised process of casting as opposed to hand forged wrought ironwork, the demands of the mass market for rapid construction and decoration prompted a boom in cast ironwork, which went from pale imitations of Georgian wrought ironwork to fully exploiting the potentials of the material by the latter half of the 19th Century.

More than any other firm, MacFarlane's understood the benefits of a comprehensive and detailed catalogue from which engineers, designers and architects could select components, be they structural or decorative, and have them shipped to the far corners of the Empire for erection.

This volume is the first of a number of a number of Technical References to be produced by the Technical Conservation Group. There are very few original catalogues of Walter MacFarlane and Co left in general circulation, yet their ironwork is common and the information contained within the volumes provides invaluable technical resource material. It is my experience that the depictions of the patterns are often very accurate in relation to the castings produced, and can therefore be used with a high degree of confidence for design purposes.

There are ironically few firms who can manufacture such high quality architectural cast ironwork now, but in many instances the designs they receive for restoration or new commissions are not sympathetic in detail and design to the original castings. It is hoped that this volume will go some way to redressing this.

David S Mitchell MSc IHBC Prof MICME

Director

Technical Conservation Group



Technical note:

The original catalogue used here was loaned by the Scottish Ironwork Foundation (www.scottishironwork.org) and digitally photographed. The resulting images have purposefully had minimal adjustments made thereafter. The original catalogue is over one hundred years old and is showing signs of both age and use which are reflected in some of the photographs.

INTRODUCTION

'In this new foundry an immense variety of work is turned out, and art in cast iron is cultivated to such an extent, and with such an amount of success as are not known elsewhere, either in this country or abroad…MacFarlanes castings are favourably known in every civilised nation in the world…'

Notices of some of the Principal Manufactures of the West Coast of Scotland, Glasgow 1876

Technological developments in the iron smelting industry allowed the Scottish industry to flourish in the late eighteenth and early nineteenth Centuries. Significant discoveries by David Mushet and James Beaumont Neilson allowed the iron ore deposits of the Central belt to be exploited, so driving the iron and steel industry in Scotland. In addition, the economic climate of the late industrial revolution and the emergence of a prolific engineering industry in the West Coast of Scotland provided the demand, skills and materials for the light castings industry in general, and architectural iron founding in particular.

In 1709 at Coalbrookdale, Abraham Darby first smelted iron with coke in preference to charcoal, and his pioneering work caused a ripple effect throughout Great Britain. Over the next forty years increased demand for iron led inevitably to the dwindling of timber supplies, and therefore of charcoal, and smelting with coke became increasingly important.

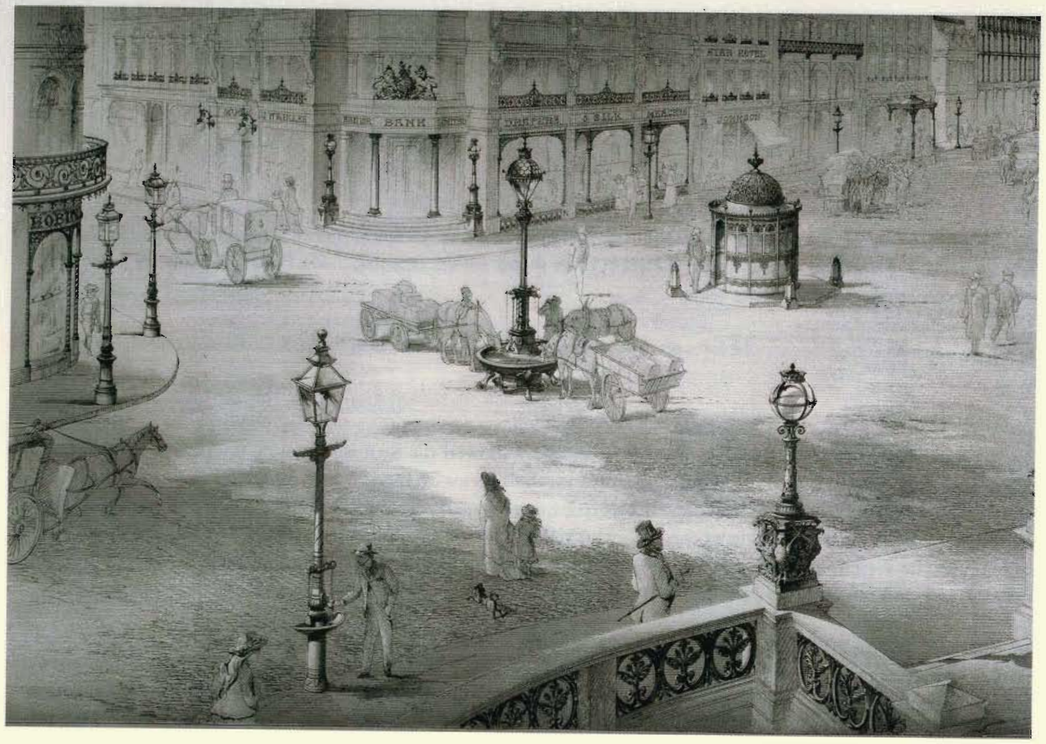
The move to smelting iron ore with coke would also prove a key factor in the eventual development of the architectural cast iron industry in Scotland. Established in 1759, the Carron Company was the first to produce iron on a major scale, and the first in Scotland to move from charcoal to pit coal or coke for smelting, exploiting the carboniferous coal measures of Central Scotland. But it was not until Wilkinson developed the cupola furnace in 1794 that the technology was available for the architectural and ornamental industry to develop in earnest. The cupola furnace was a small furnace that could be used for re-melting pig iron using coke, which meant that iron produced in a blast furnace from iron ore could be transported to any location for the casting of iron goods. The manufacture of castings could now be separated from iron production, and with the increasing use of coke, iron production itself could take place away from timber supplies. There were now no logistical restrictions to iron founding in any town in Scotland.

The architectural iron founding industry which would blossom from the mid-nineteenth century received further momentum from the discovery of blackband ironstone in Lanarkshire by Mushet in 1802, and the invention of the hotblast process by Neilson in 1828. Blackband ironstone contains both ferrous and carboniferous deposits and also has a high phosphor and graphite content, making it ideal for light and decorative castings, with a superior surface finish and a molten fluidity that produces exceptionally sharp and crisp results. With the hotblast process improving fuel efficiency in the blast furnace, the coal already present in blackband was often enough for smelting, which reduced production costs considerably.

The significance of the hotblast method was not lost on contemporary commentators. Samuel Smiles called it 'one of the greatest discoveries in metallurgy of the present age, and above every other process, admirably adapted for smelting the blackband ironstone', and believed that 'from the introduction of this process, the extraordinary development of the iron manufacture of Scotland may be said to date.'

It was against this backdrop that Walter MacFarlane and Co was founded, but the company's startling success and international fame was to surpass its rivals in all respects. For a prolonged period, Scotland was a world leader in architectural cast ironwork, and at its heart was at the Saracen Foundry of Walter MacFarlane & Co Ltd. Although its influence has long since faded, this Glasgow company was once held in high esteem across the world.

Aside from the castings themselves, the only business records of any significance that survive are publicity



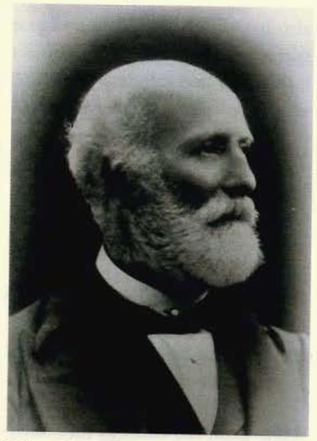
catalogues, and the counting house notebooks, which date from the first ten years of the company, and are lodged in the National Archives of Scotland.

Another important source of information on the evolution of the firm is the memoirs of Thomas Russell, one of the early partners, which have been made available recently by his grandson, T A Russell. The memoirs indicate that James Marshall and Thomas Russell were more prominent in the success of the firm than was previously believed.

Early Years

Established in 1759 the Carron foundry was the first large scale ironworks in Scotland, and the spark that led to a profusion of architectural iron founders across the Scottish Central belt.

Founded in 1850, Walter MacFarlane & Co Ltd was a comparatively late entrant to the marketplace, but at its peak around 1890 – 1910 it was without equal. As 'artistic iron founders' the directors were commercially shrewd, squeezing major competitors such as the Sun Foundry of George Smith & Co Ltd out of business; but perhaps the true secret of success was their attitude to design and marketing, using catalogues of immense artistic achievement to present a huge range of prefabrication products in accessible, numbered form. That, and a seemingly unrelenting ability for self-promotion.



Walter MacFarlane

Walter MacFarlane was born in 1817 in Torrance, then just a small village on the outskirts of Glasgow, to a woodturner, also named Walter MacFarlane, and his wife Agnes Leech, who was originally from Lanark. Research has indicated that at least four of the couple's six children found employment in the jewellery trade.

The family was not wealthy, and around 1830, after a basic education, young Walter MacFarlane entered the employment of William Russell, a jeweller in the Trongate, Glasgow. He also continued his education at night classes, and

took an evening course in design. It has been suggested that MacFarlane's attention to detail in his castings was inspired by these early experiences. The preface the to 6th edition of the MacFarlane & Co catalogue notes that Walter was particularly interested in the decorative treatment of cast iron by 'colour and gilding'.
Around 1833 Walter gave up the jewellery business and instead began a seven year apprenticeship with a blacksmith named James Buchanan, in Stockwell Street, Glasgow. It have been his experience in the wrought or 'hammered' side of the trade that gave him such insight into the potential of mass produced cast iron.

Around 1840 Walter moved on again: this time to the Cumberland Foundry of Moses McCulloch & Co in the Gallowgate, where he rose to become moulding shop manager. Moses McCulloch undertook sanitary ware and structural ironwork and was one of Glasgow's two earliest iron founders, the other being the Sword Foundry. On the 8 March 1848 Walter married Margaret (Maggie) Russell, the daughter of William Russell the jeweller, his first employer.

Company origins

Over the winter of 1849-1850, Walter MacFarlane went into partnership with his friend James Marshall (1817-1883). Since neither of them had the capital to start the business, their source of funding remained unclear until the discovery of Thomas Russell's account:

"...in 1849, some disagreement having arisen between Macfarlane and his employers, he determined to start business as an Ironfounder and entered into partnership with James Marshall, who was at that time a Writing Master in Albany Place. Mrs Marshall, formerly Miss Ray, was also a close friend of Margaret Russell.

"Macfarlane had little or no cash available and my father lent him £200, which was put into the business. Marshall also borrowed from the Misses Brown another £200: so that their total capital was £400. The first cast in the Saracen Foundry was in November 1850, but they were only a few months in business when further capital was absolutely necessary, and Dr Brown and my Father became security to the Commercial bank for a cash credit of £750, which security was only cancelled by the death of both these parties.

"(Late in 1850) it became again necessary, to save a stoppage, that additional capital be found and after having tried and failed to find a partner with additional capital to join them, my father agreed to advance another £750, on condition that I should be admitted as a partner. Macfarlane for a time strongly objected to this, but my father was firm and it was ultimately arranged that I should enter the firm as a Junior with the capital named. In order to provide the cash, £750 was borrowed over the property at East Princes Street Rothesay) which came in the end into my hands with this burden still undischarged. My father retained the right of examination of all the books, until the time should come that I was of age and able to look into matters myself. Balance sheets were furnished, first monthly, and then quarterly to my father until the success of the business became assured, and were continued yearly until 1855.

"On 1st January 1851, I became a partner in the Saracen Foundry, then in Saracen lane, Gallowgate. It had been started 6 months before that. The contract was for ten years – share and share alike between the three partners, the only difference in my case being that I was to have no voice in the management, or power to sign for the firm until I came of age. The salaries of the partners were to be £200 per year, but mine was to start at £15 rising by £5 per week until I came to 21. This was however amended in practice, and by 1854 I was receiving the full salary of £200. Marshall still continued his separate business of Writing Master until about this date, when he also began to give his full time to the business. One provision of this contract (which remained the only contract entered into during my 30 years of business), was that no profit be paid out of the business, but go to increasing the capital in the business. This condition also continued at the extension for another 10 years of the contract until 1870. In the second extension, for another 10 years, one half profits were paid out, if the partners wished it, until the capital amounted to £180,000 contributed equally, and after this point was reached, in full".
In 1851 the company took over a disused brass foundry in Saracen Lane in the Gallowgate, adopting the street name for the foundry, in line with the tradition that a foundry should have a name distinct from the company that owned it. The first ten years of the company were almost entirely devoted to the manufacture of sash weights for windows and sanitary and rainwater castings, particularly pipes and gutters.

Counting-house notebooks survive from the 1850s, each one prefaced by a list of rules written by Thomas Russell and Walter MacFarlane. There is a general air of deference to MacFarlane throughout these documents, suggesting that one partner was already at the helm; and the rules, along with additional notes and instructions, are indicative of hands–on management and significant attention to detail.

'Instructions for keeping Counting House Pass Book and general instructions to Foreman in conducting his department.

1st *This Pass Book is for entering instructions on Memorandums relating to jobs or orders in hand and as its name implies is to pass between the party giving the instructions and the party who receives the same.*

2nd *Always see that each days entries are dated.*

3rd *No verbal message to be given or taken, relating to engagements or things of moment – let it always be entered in Pass Book by the party giving the order.*

4th *The Foundry, Fitting and Warehouse departments have each books of the same kind.*

5th *Mark out daily all instructions or orders as they are completed.*

6th *Never give a verbal order to those under you, when you give them particular and stated duties let it always be written on a neat slip with the date on it thus : 20/11/54.*

7th *When you make an engagement or promise to have a particular work ready or sent by a particular time, endeavour by every means to keep your engagement.*

8th *No goods or material of any kind under any preference whatever to be allowed to go out without being properly entered whether on sight loan or otherwise.*

9th *Endeavour as far as possible to conduct your whole business operations on our uniform system, that is to say have a set time daily for attending to stated duties, as for instance -*

10th *Examining, overhauling and looking after the proper execution of orders,*

11th *Seeing that the Books are properly kept and statedly written up,*

12th *Seeing that accounts are are rendered and collected at the proper time for the Business House for Counting House are from ??? and ??? (Initials).*

Thomas Russell's memoirs reveal that a new way of conducting business was bringing the firm considerable financial success:

"I do not propose to enter into any minute detail of my thirty year's (sic) business life. It had its incidents, successes and disappointments, like any other business; only it was always a profitable one. In no year did we ever make a loss, and some years were rewarded with a very handsome return. We struck out a new line, originating moulded or cornice gutters, to which was added ornamental ironwork for all purposes. We also struck out a new line in customers. The middleman had, up till 1852, a complete command of the trade, and dictated the price – which was always based on the lowest class of work available – and would not introduce new patterns or articles as it complicated his stock. Under necessity we bore this for two years, but then broke the trammels and devoted our attention to the tradesman, such as builders, plumbers, joiners etc., and soon found that the middleman's profit, or at least part of it, came into our pocket. It cost us twelve months of rather slack times, but it was worth more than the cost, as we also found that a first-class article and numerous new fittings, which we gradually introduced, were appreciated by the tradesmen, who found a large saving in time and expense in erecting our work."

The success of the business brought its own problems:

"We also began to cultivate the architects, and issued books of drawings which were much used and from which our make was specified. Our first catalogue was issued in [...], and was followed by others in [....] and [...], and anyone who will take the trouble to compare the first with the last issued in my time [...] will be able to form an opinion on the growth of the business, and more especially of the demand which had arisen for such articles – which demand we had created and did our best to meet. For many years our success was the cause of our difficulties. The demand came even more rapidly than the growth of our capital, and the continuous extension of our premises kept us in a continual state of uneasiness and worry as to ways and means. It was only in the last ten years that anything like an easy financial condition was attained."

Russell's Memoirs make the hierarchy in the firm abundantly clear:

"My position in the business was first as boy, clerk and afterwards, Jack-of-all-trades, with more direct supervision of the sales department, and correspondence relating to prices, contracts, orders and the execution thereof; following upon this, the charge of the warehouse, and the making and maintaining of stock. The position of Boy only lasted for about six months, as at that time the one clerk employed, having become stage-struck, ran away, and I reigned in his stead. For a little time I remained alone, but, work increasing, Robert Fulton was engaged as a boy and he still remains a partner in the business. Up till 1852, Mr Macfarlane had retained the petty cash book and Mr Marshall the larger transactions and cash book, but then both were transferred, as well as the whole book-keeping, balance sheets, costing etc. By 1853, Fulton was promoted to be Clerk and David Lindsay became Boy in his room; and he also remains in the business.

"After 1854, when Mr Marshall began to devote his whole time to the business, Lindsay was promoted to be private Clerk and relieved me of the costing books, and took charge under Mr Macfarlane of the designs, catalogues and general work of designs and printing. Mr Marshall also relieved me of the cash and book-keeping, and my time was wholly given to the sales, execution of orders and the warehouse. Being the youngest, my hours were expected to be regular from 6 o'clock to 6 o'clock, but unfortunately, although they were pretty regular at the start in the morning, they were very irregular at the finish, often extending to 8 and 10 o'clock according as required by the business. Although I was expected to be regular, the seniors did not impose that restriction on themselves, and very frequently I had to undertake their morning work as well as my own."

The fortunes of the firm, and its range of manufactures, were also influenced by political, economic and social change:

"The years 1852 to 1855 (Crimean War period) gave an enormous lift to the business. Many of our competitors were led away into government contracts for shot and shell, whilst we stuck fast to our own business and by prompt attention to the execution of orders, picked up a large number of clients who were disappointed by other founders. These remained with us, and led to a large extension of our travelling arrangements, and our abandonment of the London wholesale trade.

"I should here state that, after the close of the Crimean War, a very slack period for about six months intervened, but then there seemed to be a great awakening of the national business life. The War had brought out the utter inadequacy of all our military arrangements and the miserable condition of our barracks and fortifications and a period of great activity arose, lasting for a number of years. It was at this time that the Curragh Camp was built, at which we did a large amount of work; and Mr Macfarlane having invented a new latrine, we were fortunate in getting it introduced into all new barracks and the renovations of the old. That, and the urinals for public use, brought us a large trade for many years.

"Following upon this awakening came also that of Parliament, and revised Lunacy laws, Workhouses, Hospitals etc. came in quick succession, all of them demanding new building or renovations, all of which brought work to the Saracen. There was also, from 1854 to 1866, a fever of Church-building all over the kingdom – the Roman Catholics in Ireland, churches and schools; the Free Church in Scotland replacing the barns erected in 1845; and the Established Church in a spirit of rivalry, emulating. In England at this time the Non-Conformists were making strenuous efforts to show their strength and vitality. There can be no doubt that the vast increase of wealth in the country during the decade, not only provoked more elaborate private mansion building, but also the feeling that the building for religious, philanthropic and other purposes ought to be more removed from the baldness and ugliness of the past, and made more in accordance with the improvement of taste which had arisen after the sad exposure of our weakness in that direction made by the Exhibition of 1851.

"During the period from 1851 to 1860, we were continually extending the Works by the addition of properties surrounding the original Brass Bell Foundry – sometimes by purchase, mostly by renting – and from the nature of the buildings, we worked to considerable disadvantages (in paying rent)."

The Saracen Foundry became a specialist in the sanitary field, which remained an important source of income for many years to come. In 1857 Walter MacFarlane read a paper to the Philosophical Society of Glasgow entitled 'Sanitary Arrangements for converting the excrementary refuse, dry garbage, ashes etc of towns into their most valuable purpose'. He 'imputed much of the excessive mortality in our large towns to the effluvia evolved from accumulations of excrementary matter in middensteads and privies'. His answer was to promote a new system of drainage using – predictably enough - 'cast iron intercepting ordure tanks'!

The first note of ornamental architectural work of any description comes in August 1855 when the notebook records:

'Send to Mr Salmonds on Wednesday and get the improved drawings for balcony and take them up to Mr Steel and get him to model the ornament'.

This suggests that the foundry did not yet have a pattern maker capable of making ornamental patterns. Saracen was also making castings for Falkirk Ironworks, with several notes to this effect.

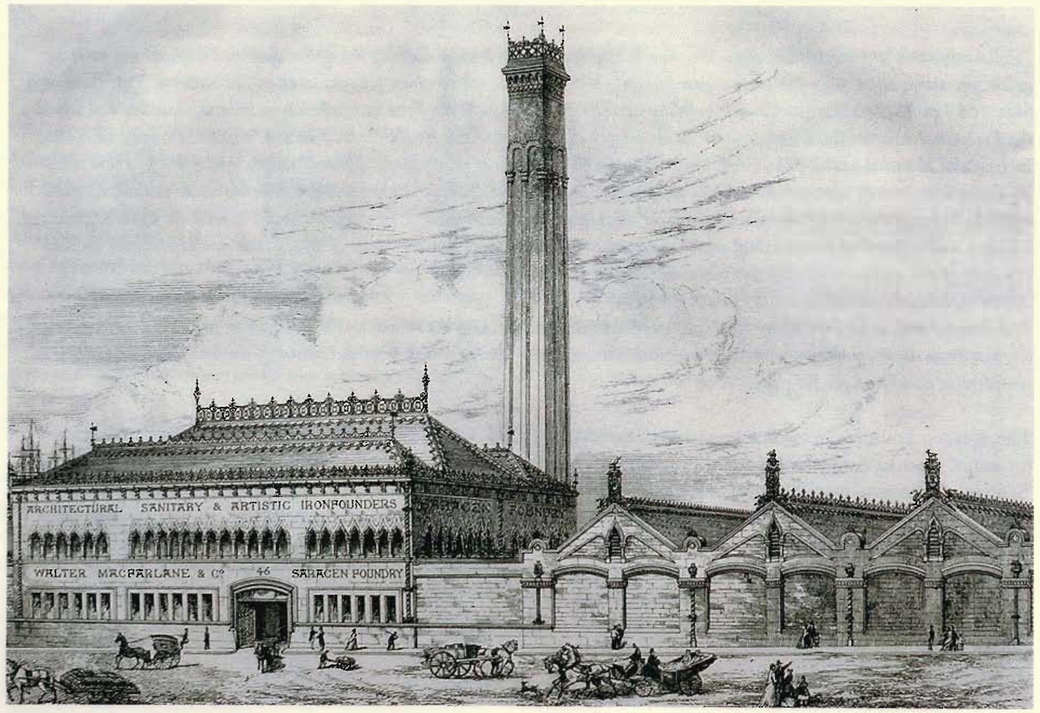
Thomas Russell describes with enthusiasm his early interest in literature, and mentions other key figures in the firm:

"My greatest enjoyment during these years in lodgings arose from a strong course of reading of great variety, although all of standard literature. My first book was Shakespeare, lent me by George Smith, foreman Pattern Maker at the Foundry. I well recollect the intense enjoyment I had. It was a new world to me and I remember not going to bed for two nights until I had completed the reading. My next was Milton, also leant to me by a Moulder in Saracen (Simpson, a Babtist and a good Christian man)".

George Smith was later to leave and establish the Sun Foundry – another of the key Scottish architectural iron founders.

The company flourished in Saracen Lane and employed 120 people by 1861, relocating to Washington Street in Anderston the following year. According to Thomas Russell *"it was determined to remove the business to another site altogether, and a site having been found and purchased in Washington Street, double the size of the present works, a new building in the Venetian Gothic style was erected in front, three stories high, for warehouse; and fitting shop with sheds for moulding shops were erected and occupied in 1862."*
The company commissioned the Glasgow architect James Boucher to design the building. This was the first of a long association with architects and designers such as Alexander 'Greek' Thomson, where a symbiotic relationship between iron founder and designer proved lucrative for both parties in design commissions and contracts. The Washington Street Saracen Foundry had its name prominently displayed, with the title 'Architectural Ironfounders and Sanitary Engineers' emblazoned across the front of the building. A single chimney towered above the works, and the building made good use of the company's expertise in crestings and terminals.

In 1868 the Washington Street Foundry was used as security over a loan of £25,000 from the Scottish Provident Institution and the firm borrowed a further £10,000 from the Commercial Bank of Scotland. The timing of these loans suggests the funds were used to buy the lands at Possilpark and the final Saracen Foundry.



Washington Street Foundry

The profile of the company, and the stock of the partners in Glasgow Society increased considerably at this time. Walter MacFarlane was a member of the Institute of Engineers and Shipbuilders in Scotland, a member of the town council for three years (1864 – 1867), and in 1864 also became a member of the Institute of Mechanical Engineers. He was also a man of politics, helping to found the Glasgow Liberal Association in 1879, and addressing Gladstone at Waverley Station in Edinburgh in November of that year. His home at Park Circus, also designed by Boucher, remains a testament to his wealth and status in Glasgow society. He was described as a 'generous patron to art...his house adorned with a unique collection of Japanese bronzes, Florentine furniture, and examples of the most famous artists, both in painting and sculpture.'

Saracen Foundry, Possilpark

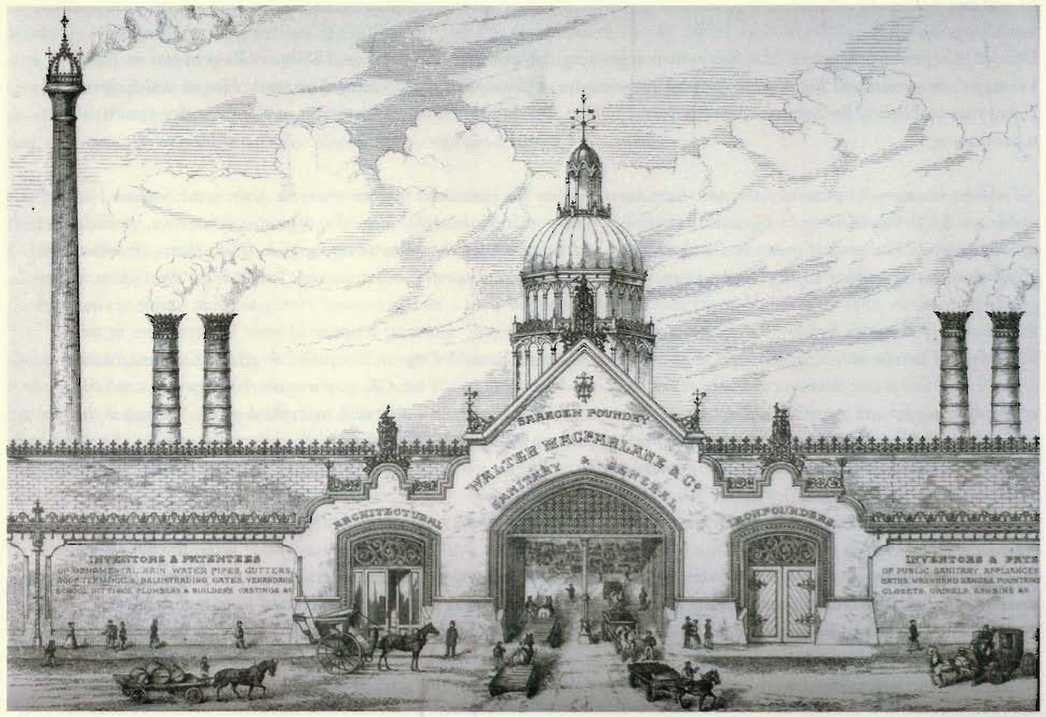
The success of the company was such that a decision was made to move to a green field site on the outskirts of the city. This was to be the third and final Saracen Foundry, built and expanded to a vast scale. As Thomas Russell noted, the company had a pressing need for larger premises:

"From 1862 to 1870 the business continued to grow rapidly, and three additional purchases of land were made in Washington Street, and we were forced to contemplate another removal as land in Washington Street or Clyde Street had risen so much in price that the business could not afford to be run from it. By this time, the works covered about 3 ¼ acres of ground."

The partners acquired a number of plots of land at Keppoch and Possil Estate from the Historian Sheriff Allison, including his mansion house, demolished to build the foundry.
Glasgow Streets and Places notes that in November 1868 : *" By feu, John Campbell Esq disposes four plots of the farm of Keppoch to Walter MacFarlane, James Marshall and Thomas Russell partners of WMC. Parts of the land acquired were christened Possilpark and used for a site for the new foundry which had previously stood in Washington Street* '.

Like its predecessor, the new foundry was designed by the architect James Boucher. The Possilpark Saracen foundry covered 80 acres, with the remaining land laid out as streets and dwelling houses, including those owned by the company in Barloch, Denmark and Hawthorn Streets.
The company relocated to Possilpark from Washington Street in 1872. The ariel view shown in the 7th Edition of the catalogue is the best indication of the operational layout of the foundry, and its use of the railway for the delivery and export of goods and materials.

Possilpark Foundry



Standing at the site of the Possilpark Foundry now, it is difficult to imagine the sheer scale of the construction and the scale of operation. All that remains is a small portion of the outer wall, with Boucher's ashlar detailing still evident, and a forlorn iron gutter fragment.

Illustrations of the interior showroom of the Possilpark foundry provide a tantalising glimpse of a cast iron treasure trove, and MacFarlane's love of the grandiose was such that it probably was just as grand as contemporary descriptions suggest. Many of the items shown in the illustration on page [NUMBER] have been identified as actually manufactured, so it seems likely that the remaining items were also real products.

Sir William Stirling Maxwell of Pollok, noted academic, visited the site and recorded his impressions in his diary entry for 1st November 1875:

" I was struck with the immense growth of Glasgow on its North side...we stopped at Walter MacFarlane's Saracen Foundry newly built on the Possil Estate of which he fued 100 acres - a speculation likely to make a great return. The establishment employs from 70 - 80 Clerks, and almost 1400 workmen, and the workshops extend over 8 acres, all under cover. It is a very interesting and picturesque site. Home by the 4.20pm train..."

The pollution associated with iron founding on such a massive scale did not go unnoticed, and Walter MacFarlane was nicknamed 'The Laird of Fossiltoun'.

As market leaders and pioneers the Carron and MacFarlanes foundries attracted and trained some of the industry's most skilled employees, and this inevitably lead to commercial rivalry. The Carron Foundry provided the seeds for dozens of other foundries in the Falkirk area, particularly Falkirk Ironworks, one of its major rivals. Saracen Foundry did not suffer to the same degree, but the establishment of Lion Foundry in the late 19th Century by Jackson, Hudson and Brown, all Saracen employees, must have been a blow, since Lion specialised in ornamental work in direct competition.

The Trustees of Walter MacFarlane noted in March of 1890 that large extensions had been made to the factory, and the tenements were in need of repair. The preface to the 6th edition of the catalogue notes that the 'appreciation shown by our customers in the past has led, not only to a large extension of our works, which now cover ten acres, with railway connections through warehouse and foundry, but also to the formation around them of a new and populous suburb to the City of Glasgow, viz: - Possilpark. We cordially invite our friends, who have so warmly encouraged and assisted us, and to our Customers and the Public generally for their liberal support'.

One of the primary sources of information regarding the company in the late 1880s is *Glasgow and its Environs, a Literary, Commercial and Social review – past and present – a description of its leading Mercantile Houses and Commercial Enterprises* published by Stratten and Stratten in 1891. Its slightly florid description of the foundry is worth reproducing:

"It will be necessary for those of our readers who have not seen the exterior or interior ensemble of the great Saracen Foundry of Messrs. Walter MacFarlane & Co to dissociate from their minds all the usual ideas that a great ironfounding establishment usually suggests. The mass of grimy and dilapidated – looking buildings, the house of smoke and stifling fumes, in whose lurid gloom demoniac – looking Cyclops move to and fro, may meet the ordinary idea of a foundry, but finds no illustration in this great representative concern. It would be difficult indeed to imagine from a merely external survey to what branch of enterprise the ornate and attractive buildings of the Saracen Foundry appertained. Covering a square of some fourteen acres in area, regularly and handsomely designed, and presenting a clean cut and unsoiled aspect, it required an effort of the imagination to conceive that this is the great centre of one of the most important branches of the Glasgow iron working industry and the source of supply of useful and artistic foundings for all parts of the civilised and, we might add, uncivilised world. Yet such is the case ; nor, on second thoughts is it to be wondered at that the firm, in whose productions the artistic element is supreme, should embody the same element in the architecture of the foundry itself...

"...The interior of the Saracen Foundry does not belie the promise of the exterior. Entering by an imposing and spacious entrance the visitor finds himself in a range of handsome offices, about 260 feet in length, and fitted up in the most exquisite modern style. Adjoining are the palatial showrooms, the whole covering about three quarters of an acre. Passing through these, department after department of the spacious foundries and workshops may be visited till the mind becomes bewildered at the multiplicity of operations being carried on beneath the ten acres of roof that covers the executive portion of the Saracen Foundry."

Marketing and promotion were important to the firm right from the start. It was famous for its catalogues, but

the use of advertisements, exhibitions and the more subtle reciprocal acts of patronage to and from designers served to promote the company and establish it as a market leader. Thomas Russell's memoirs illustrate the importance of these marketing efforts:



"In 1862 came the second Exhibition in London, in which we had a stand and made a fair exhibit of ornamental ironwork. There can be no doubt that the quality of our castings impressed all who examined them, especially Architects, and as a new Catalogue of designs was issued about the same time, our trade made a vast increase."

He goes on to explain how the firm expanded into the English marketplace:

"We had established an Agency in London for our sanitary work some years before and a Mr Thomas Begg of Bedford Street had run it with some success. But during the Exhibition period, we opened a branch for our whole productions, also in Bedford Street. Mr Robert Fulton was placed in charge and Mr Begg ceased to act for us.

"Our London office continued in Bedford Street for about two years and was then removed to Upper Thames Street, where we also had a warehouse under the Cannon Street Station. All the South of England from the Wash to the Bristol Channel was handed over to this branch, who sent out their own travellers, booked and forwarded their own goods and struck their own balance sheets. After an experience of five years, however, the expenses were found so heavy that the Warehouse was given up. Mr Fulton returned to Glasgow and the Travellers reported themselves to Headquarters. By this time, the whole kingdom had been divided up into numbered districts, each having a Traveller out in the district, and order clerk in the office at home and a salesman in the warehouse, so that these three, with assistance if necessary, conducted that section as an entity and had nothing to do with others, but were held completely and absolutely responsible for their section. If the Traveller failed to obtain orders, he was pulled up or dismissed; if the correspondence clerk neglected or messed the correspondence, he also was dealt with, and if the salesman failed to execute his orders promptly, and correctly, his responsibility could not be evaded. The great secret in management is in being able to spot and remove the weak point. The Travellers in addition to a fixed salary and expenses, were paid a commission on any sales over a fixed amount but had, out of this, to bear a considerable portion of any bad debts arising.

"When the business was started, six months credit was invariably given, but gradually this was reduced to four months, and then to quarterly accounts, the advantage being smaller amounts in cases of failure and a saving of capital in cash lying out. The Districts were also made to fall due at different dates so that collection was being made all over the year, and no Traveller was allowed to collect accounts. What I have related was not produced in one day, but was necessitated and evolved by the growth of the business extending over years."

Other foundries, particularly McDowell Steven's Milton Foundry, were producing catalogues of wares, and so had the Carron Company before them. Whilst Walter MacFarlane was clearly shrewd enough to appreciate the benefit to designers and specifiers of a detailed illustrated catalogue, with sizes and dimensions, he cannot have appreciated how pivotal to the success of the company these catalogues were to become, or that in future years they would be found at every corner of the globe. An architect in Australia, South Africa or Brazil could design and specify around Saracen Foundry castings, then order them direct from the factory. Given the lack of surviving business documentation, these catalogues are the single most important archive source for the manufactures and development of the firm.

On the 27th October 1854 a note is made in the Counting House Notebook to 'make out an alphabetical list of all the goods we make in order to make out a new price card', but it is not until 26th June 1857 that a note records the ordering of the 1st Edition Illustrated Catalogue:

'The following is the quantities of our Illustrated books to get bound:

880 1st Illustrated catalogue with stitched Cover [drain cover] as sample at 8d per dozen
130 Illustrated catalogue 2 vol 1st and 2nd bound in oil cloth, leather on back and gilt edges as sample.
200 Vol 1st and 2nd bound in oil cloth and leather on back as sample
300 Vol 2nd bound new cloth back and paper insides, old boards'

The practice of publishing the catalogue in volumes was continued for every subsequent edition, separating rainwater and sanitary castings from ornamental works. As far as we know, the earliest surviving example of the catalogue is a 4th Edition copy (c.1862) in two volumes entitled Architectural Appliances and Sanitary Appliances. The spine reads 'MacFarlane's Cast Iron Manufactures' which was modified to 'Macfarlane's Castings' in later editions.

The 6th, 7th and 8th Editions of the catalogues are perhaps the richest resources, and stand scrutiny as works of art in their own right. The quality and extent of illustrations were matched only by their closest rivals, notably the Sun Foundry of George Smith & Co.

The catalogues were distributed across the world, particularly the corners of the Empire, and we have located catalogues in Australia, Singapore, India and South America. They were printed without a publication year, presumably to extend their shelf life, and as far as is known they were only published in English.

Thomas Russell

Thomas Russell was married on 15 February 1866 at Westminster Chapel, Glasgow, to Marie Bonwick Roberts, daughter of Edward Roberts, a civil engineer who had been responsible for building the drainage system on the Rock of Gibraltar.

Thomas built Cleveden in Kelvinside as his family home. James Marshall also lived in the area. In 1871 he was made a freeman of the City of Glasgow, aged only thirty five. In 1876 he bought the Ascog Estate on Bute, constructing a new home near Ascog lodge. His connection with Bute is still evident. A double column bandstand made by Saracen was gifted to the town in 1873, and Thomas was a founding director of the Rothesay Aquarium.

Thomas Russell was made Deputy Lieutenant for the County of Bute in 1876, and laid the foundation stone of the "North Bute Free Church" in 1878. The year after he retired from the firm, he was elected MP for Buteshire, taking the seat from the sitting Conservative MP Sir Charles Dalrymple.

His obituary records that :

"....Though engaged in Business in Glasgow, Mr Russell had, as has been said, maintained a close connection with Bute ....and he was well and favourably known in the constituency. A keen contest ensued and the Liberal candidate was returned by a majority of 17 votes. Mr Russell, however, did not long enjoy the fruits of his victory, for, unknown to him, the firm with which he was connected were (sic) concerned with government contracts, and the seat was declared vacant...In the election which followed, the Conservatives were better organised and Sir Charles was returned by a majority of 45 votes".

According to notes made by T A Russell:

"On Bute, he was Chairman of the Road Trustees for Bute County Council and for many years the Council's Convenor, its last before reorganisation in 1886. In Glasgow, he was elected to the Glasgow School Board in 1882 and again between 1888 and 1891. He was one of the original directors of the Glasgow and West of Scotland Technical College and was Chairman from 1891 to 1894. He was a founding governor of the Agricultural College, eventually becoming Chairman just before his death. He was Chairman of the Muirhead Trust celebrated for funding two chairs of medicine at the University. And he was a Justice of the Peace for Lanarkshire. There seem from his many letters to have been other appointments and commitments, both paid and unpaid, and he must have been a very busy man.

"Perhaps because of his commitments in Glasgow, or possibly because of health worries, he sold Ascog during 1896, and was treated to a splendid farewell by the County Council reported, portentously, by the Buteman on the 19th December. He returned to Glasgow, and Cleveden. Whatever the reasons for the move back, and although he was still developing four tenements,

comprising 43 dwellings, in Russell St and High St, Rothesay as late as November 1900, there seem to have been financial worries, and the early 1900's saw him in distinctly straightened circumstances. He was forced into many economies, such as renting out Cleveden while he and Marie stayed in Dunblane".

Thomas Russell died at Cleveden on August 14th, 1911.

The next generation - Walter MacFarlane Jnr

Having no children of his own, Walter MacFarlane 'adopted' his nephew and namesake as his own son, and in 1872, the same year the Possilpark Factory came on stream, Walter MacFarlane Jnr (1853 - 1932) joined the company. Educated at Glasgow Academy and Glasgow University, he was destined to perpetuate his uncle's business and expand it to its peak. A notice placed in the Edinburgh Gazette of 30 April 1880 stated that James Marshall and Thomas Russell had retired as partners at the end of 1879, to be replaced by Walter MacFarlane Jnr and Robert Fulton.

In 1881 Walter MacFarlane Jnr married Helen Cross, daughter of William Cross, seedsman. The couple had five daughters and one son, again called Walter, born in June 1883. As Colonel Walter MacFarlane he was involved with the company in its later stages.

Walter MacFarlane senior died of 'disease of the heart' and 'gangrene of the right foot' in 1885, aged 68, and was buried in the Necropolis, Glasgow. His monument bears a bronze portrait by the sculptor Bertram MacKennal. Walter MacFarlane Jnr was left to develop the business, and the company perhaps reached its peak under his leadership. By the 1890s the Saracen Foundry was providing work for around 1200 people, and in this period Walter MacFarlane Jnr became president of the Ironfounders of Scotland. Following in his uncle's philanthropic footsteps, he gifted land for the construction of Possilpark Library in 1909.

It is not known precisely when Walter MacFarlane Jnr's own son joined the family firm. He was educated at Glasgow Academy like his father, and also at Loretto. During the First World War he served with the Glasgow Yeomanry and the 2nd Battalion of the Gordon Highlanders, and was awarded the DSO in 1918. In the Second World War he was a lieutenant – colonel of the City of Glasgow Home Guard.

Like his father and great uncle, Colonel Walter MacFarlane became Deacon of the Incorporation of Hammermen. He was appointed Collector of the Trades House of Glasgow in 1942, becoming the Deacon Convenor in 1945.

His obituary in the Glasgow Herald of 19th March 1965 noted that 'his prominence in the industrial and public life of Glasgow continued an old family association with the City'. As well as serving as Chairman of the firm he was a Director of the Federated Foundries Ltd (an association of iron founders), a Trustee and a member of the finance committee of the Savings Bank of Glasgow, a Deputy Lieutenant for the City in 1949, a Justice of the Peace, and Chair of the Western Club.



Walter MacFarlane Jnr in the foundry yard c. 1900 (Image reproduced courtesy of Mr Gordon Urquhart).

The Ironbridge records

A unique document survives in the archives of Ironbridge, in the form of typed notes on the company history. Whilst references to the earliest history seem more anecdotal than documented, some fascinating insights are included.

According to these notes, the pattern store covered a vast area, with patterns in iron for the full range of architectural details shown in the catalogues. In 1914 the foundry was taken over by the Ministry for Munitions for the manufacture of shell cases and other items. With highly ornamental ironwork not much in demand after

1918, the firm moved to rainwater goods and enamelled baths for the domestic market, and to manufacturing the building facades, which became such a significant line of business for the company. For a period after the 1914-1918 war, the firm also did good business in South Africa, operating a warehouse in Cape Town.

During the 1939-1945 war a portion of the foundry was given over to the war effort and limited engineering work continued in the rest. Only limited ornamental work was called for after the war, mostly for damaged buildings, notably to the Victoria Tower at the Houses of Parliament. The company felt the loss of the skilled moulders who had moved into the non-ferrous and steel-founding industries during the war.

On the plus side, the post-war housing programme created a new demand for pipes. A new mechanised pipe plant produced 10 – 18,000 pipes per week, and operated until the foundry closed. The increasing use of plastic pipes hit this last stronghold hard.

The Ironbridge document also notes that the last cast iron frontage to be erected was the Financial Times building in London in the 1960s. By this time the staff numbers had reduced considerably from their peak in the late nineteenth century, when the company had employed twelve draughtsmen, two watercolour artists, a structural engineer, and a designer with 'experience both here and in America'.

The end of an era

The death of Colonel Walter MacFarlane in 1965 marked the end of the family association with Walter MacFarlane & Co. In the same year, the company became part of Allied Ironfounders, which had been established to combine the resources, direction and marketing skills of a number of British foundries dealing mostly with the domestic markets.

Allied Ironfounders was absorbed into the Glynwed Group in 1966, and the foundry at Possilpark closed the next year. The Glynwed Group and its successor firms have no record of what happened to the MacFarlane business records, archives, patterns, designs and company literature, but anecdotal evidence suggests the entire stock of patterns was destroyed by burning or otherwise disposed of. It is hard to believe that no-one could see the artistic value in some of the patterns or design work, but the wanton loss of 100 years of history from the most important



Wintergrdens, Rothesay, Isle of Bute.

architectural iron founder of the age is not without parallel. When the Lion Foundry closed in the early 1980s an auction sale was held, but most of the design and company literature was intended for destruction. The foresight of the local librarian managed to save the bulk of the material. There remains a possibility such an individual managed to save at least some items from Possilpark, and that these items will come to light in the future.

The Ironbridge document records that:

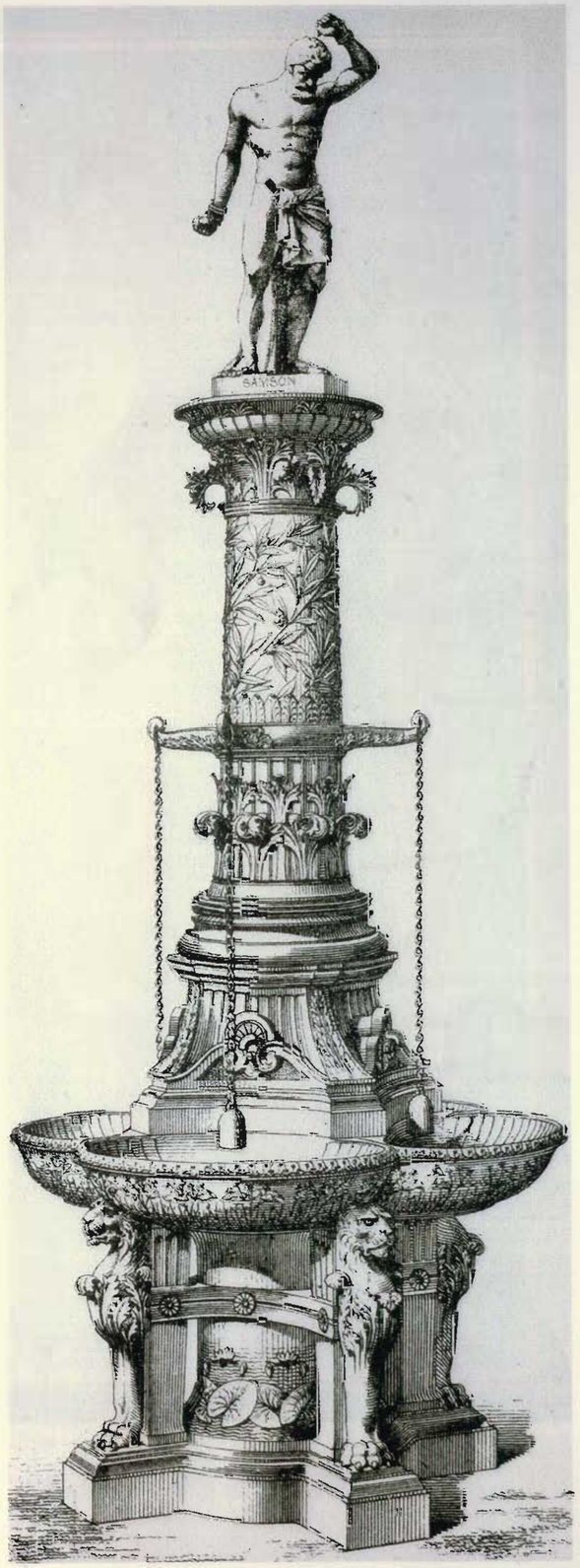
'The range of patterns had been reduced over the years to make room for developments, and those remaining were broken up, except some gutter patterns which were taken over by two foundries in the North of England'.

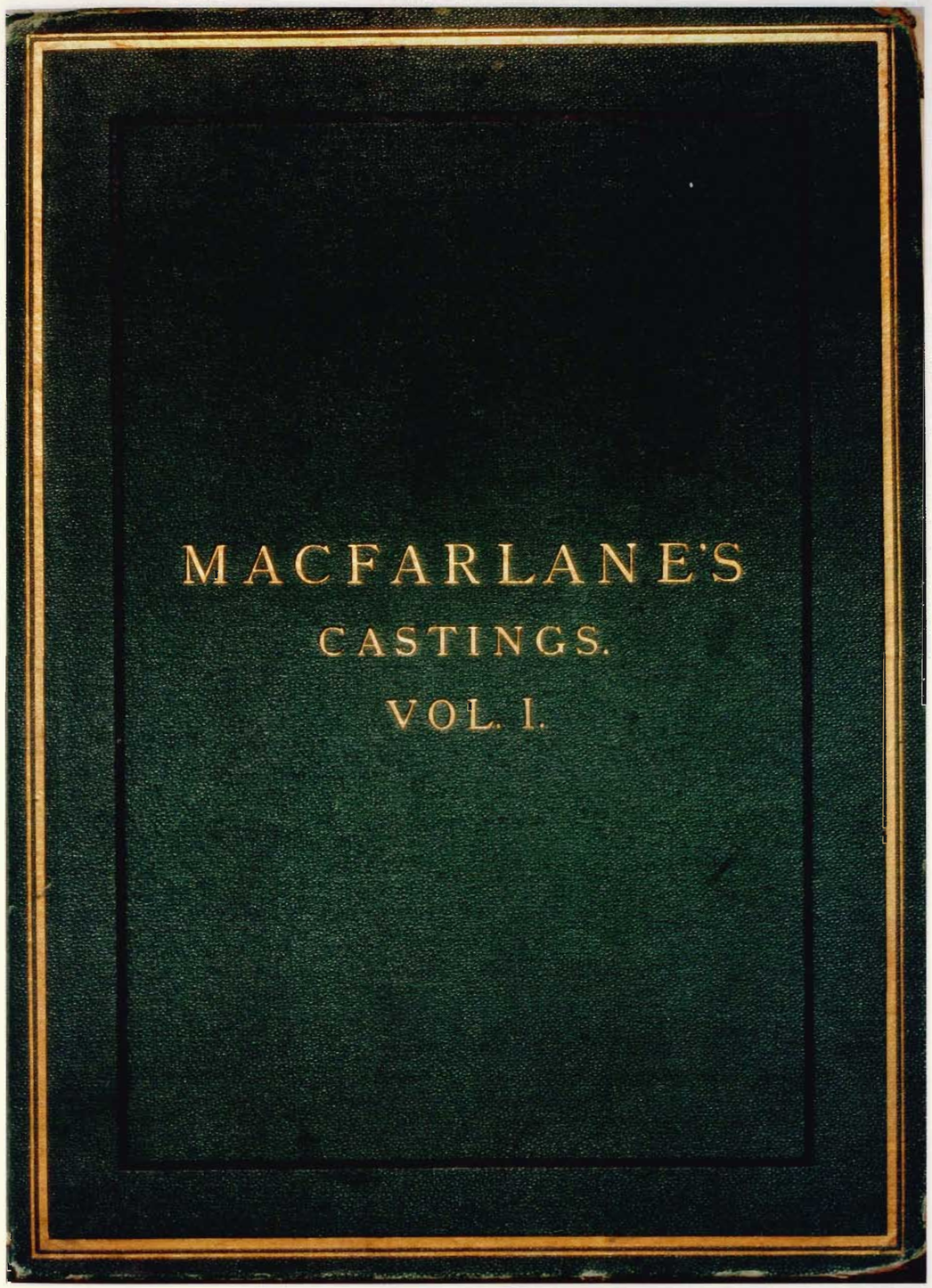
In 2005, Mr John Cameron, of Cameron & Roberton, Southbank ironworks in Kirkintilloch was able to provide additional information in an interview. Then in his nineties, he had clear memories of the Saracen foundry, where his brother Tim was for a time Commercial Director, and recalled that two days after Walter MacFarlane & Co Ltd signed the deed to Allied Ironfounders, two men were dispatched to Glasgow specifically to break up the patterns for royal coat of arms which Saracen had supplied to embassies and royal buildings: from then on, only Coalbrookdale was to make those.

The Macfarlane catalogues which survive represent the pinnacle of the craft and technology of architectural ironwork, when the company maximised the potential of pre-fabrication so that Glasgow-made structures could be assembled around the world.

This volume is intended as a technical reference for those involved in the conservation, repair and maintenance of the built environment. It provides an extensive overview of the Scottish iron founding tradition and the skills and technologies which gave it prominence from India to Brazil.

David S Mitchell
Director
Technical Conservation Group




MACFARLANE'S
CASTINGS.
VOL. I.

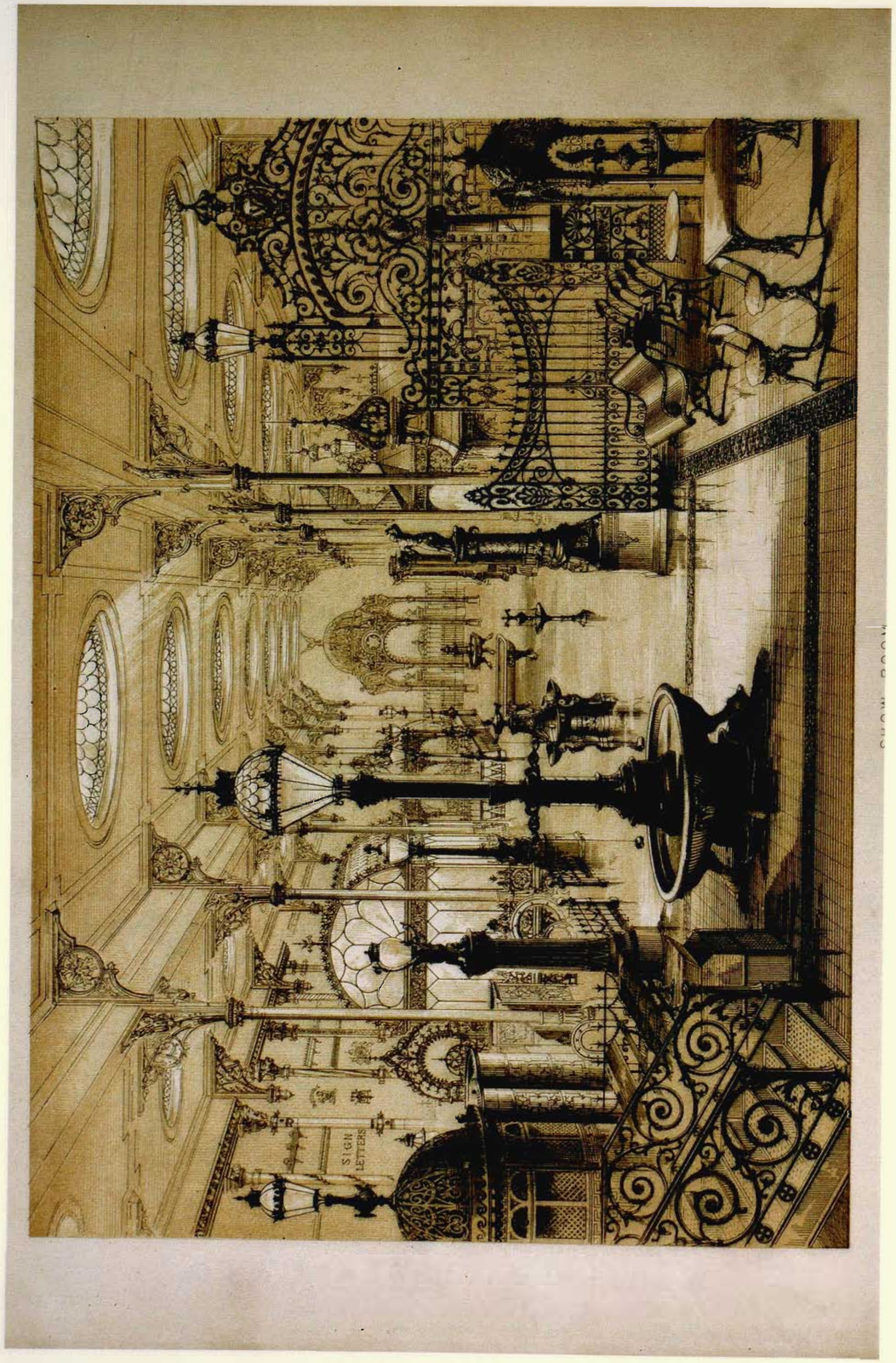


MAP OF GLASGOW,

AND ROUTES LEADING TO THE WORKS OF

WALTER MACFARLANE & CO.,

SARACEN FOUNDRY, POSSILPARK.



ILLUSTRATED CATALOGUE OF

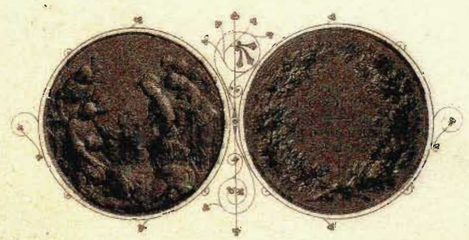
MACFARLANE'S

CASTINGS.

SIXTH EDITION.

VOLUME I.

AWARDED INTERNATIONAL PRIZE MEDAL.



Contractors by Special Appointment to her Majesty's War Department.

TRADE  MARK

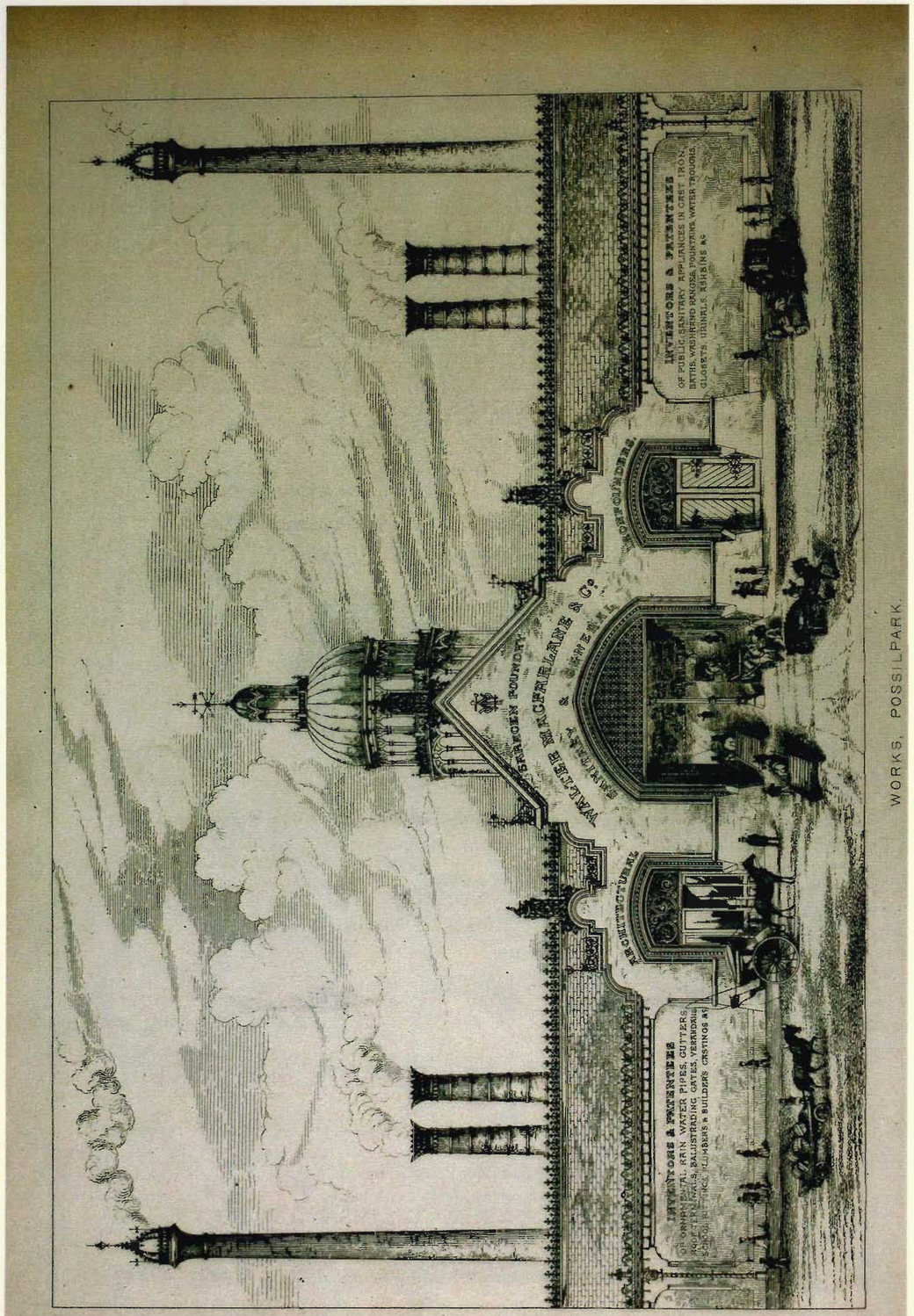
WALTER MACFARLANE & CO.,

ARCHITECTURAL, SANITARY, AND GENERAL IRONFOUNDERS,

SARACEN FOUNDRY,

POSSILPARK, GLASGOW.

Entered at Stationers' Hall.



ON EVERY CASTING.

TRADE WALTER MAC FARLANE & CO GLASCOW SARACEN FOUNDRY MARK

PREFACE TO THE SIXTH EDITION.

We have much pleasure in placing before you this new edition of our Illustrated Catalogue, which we trust will be the means of extending your knowledge of our manufactures.

The legitimate development and application of Metal Work have been carefully studied and followed as a profession by Mr. Macfarlane for the last fifty years, the first six being devoted to Gold and Silver Work, the next fourteen to Hammered Iron, and the last thirty to Cast Iron in its various branches, including the decorative treatment of its surface, by colour, gilding, &c. Metals, like men, develope their power only through successive stages, and we must not lose sight of the fact that Cast Iron as applied to the decorative arts is still in its infancy, dating back only a very limited period, but, that it has a great future before it, we think the following pages amply testify. There is perhaps no other branch of the industrial arts in this country that has made such progress within the last thirty years, and as its pioneers we feel a natural pride in the success of our efforts, our Architectural, Sanitary, and General Castings having become prominent objects, not only in this country, but over the world, notable for their fresh ironlike features, sharp, clean and full of character, neither care nor expense having been spared in the perfecting of our Designs and Patterns, our ambition being to produce the best quality of work at a moderate price.

In an age like the present, when so great progress is being made in the Arts, Sciences, and Commerce of the world, and also in the social improvement and material wealth of the nation, a corresponding intelligence and culture should be evinced in our Dwellings, Business Premises, Public Structures, Railways, Parks, &c., and some idea of the endlessly varied application of our Castings to such purposes may be gathered from the numerous pages of "Examples," while the details, proportions, and sizes of our patterns are so accurately delineated in the illustrations as to facilitate their selection and combination by our customers themselves, to suit almost every requirement. The vast variety of patterns and sizes, and the large stock of goods kept on hand enable us to give quick despatch. With the view of simplifying the ordering of our goods, we refer you to the "Directions for Ordering" on first page of each section. We find it necessary to state that every Casting has our Trade Mark legibly impressed upon it.

The appreciation shown by our Customers in the past has led, not only to a large extension of our works, which now cover ten acres, with railway connections through warehouse and foundry, but also to the formation around them of a new and populous suburb to the city of Glasgow, viz:— Possilpark. We cordially invite our friends to visit our establishment, where an extensive show-room exhibits our varied manufactures.

We make our grateful acknowledgments to the many kind professional friends, who have so warmly encouraged and assisted us, and to our Customers and the Public generally for their liberal support.

WALTER MACFARLANE & CO.

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PRICE LIST, AND INDEX TO THE ILLUSTRATIONS, AT END.

SECTION I.—PIPES.

FOR RAIN-WATER, SOIL, SMOKE, VENTILATION, &c.

This section of our Castings has attained a wide celebrity for variety of design and artistic merit, as well as excellence in quality, being sharp, clean, and full of character. Prior to our introduction of a better, and more artistic class of ironwork, pipes were put in out of the way places, or hidden in the interior of the building, as if they were necessarily unseemly, but now the high character of our manufactures is acknowledged to enhance, rather than detract from the appearance of a building, and their great variety enables the architect to make selections in harmony with his designs. Every building requires to drain off its rain, and waste from sinks, baths, lavatories, closets, and vents, and for all such requirements our varied patterns will be found suitable.

Please insert in Specification "**To be Macfarlane's Castings, from Saracen Foundry, Glasgow,**" to prevent an inferior article being supplied.

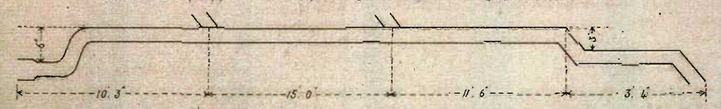
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Ears and Spikes,	„ 11	Also other examples at end of Catalogue.	

The Illustrations are arranged in the order of their Nos.

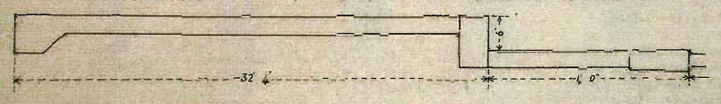
DIRECTIONS FOR ORDERING.

State the Nos. and sizes, and either order so many lengths, along with the necessary Ears, Spikes, Heads, Shoes, Offsets, Pedestals, &c., or by giving us a rough sketch, showing the exact positions of the various connections in each stalk, we will furnish them, all properly marked and ready for fitting up. The following examples show the simplest method of ordering, and giving measurements when wanted cut ready for fitting up.

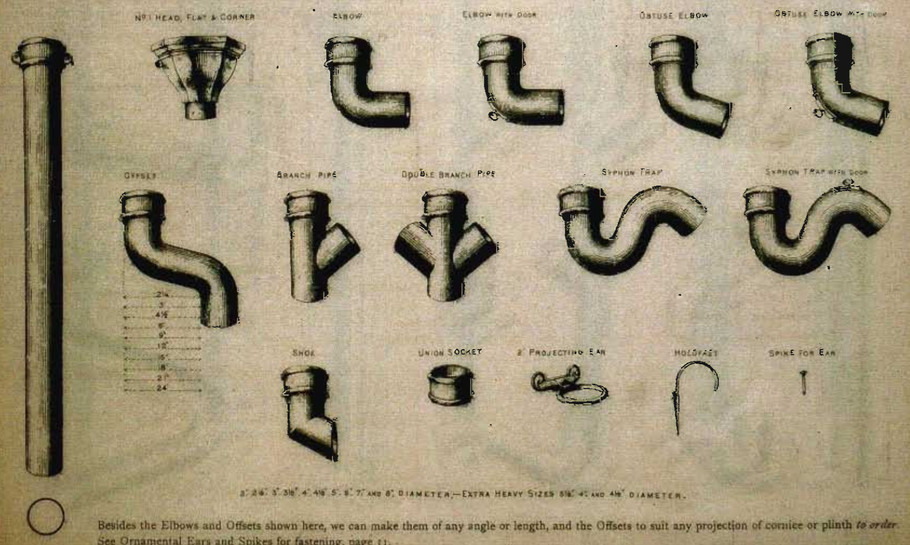
1 Stalk No. 1 Pipes 4", with No. 2 Ears, No. 1 Spikes. Offsets, Branch Pipes, and Shoe as sketch.



1 Stalk No. 4 Pipes 5" × 3½", with No. 20 Ears, No. 2 Spikes, No. 20 Head, No. 4 Offset, and No. 4 Pedestal as sketch.



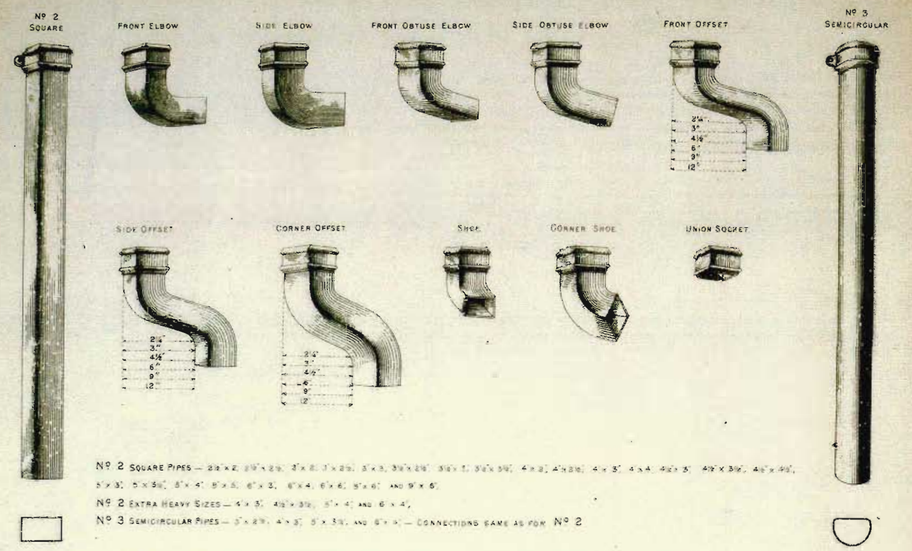
MACFARLANE'S No 1 ROUND PIPES



2", 2½", 3", 3½", 4", 4½", 5", 6", 7" AND 8" DIAMETER.—EXTRA HEAVY SIZES 5½", 4½" AND 4½" DIAMETER.

Besides the Elbows and Offsets shown here, we can make them of any angle or length, and the Offsets to suit any projection of cornice or plinth *to order*. See Ornamental Ears and Spikes for fastening, page 11.

MACFARLANE'S CASTINGS — PIPES AND CONNECTIONS.



Nº 2 SQUARE PIPES — 2½ × 2½, 3" × 2½, 3" × 3, 3½ × 2½, 3½ × 3, 3½ × 3½, 4 × 3, 4½ × 3½, 4 × 4, 4½ × 4, 5" × 3", 5 × 3½", 5" × 4", 5" × 5", 6" × 3", 6" × 4", 6" × 6", 6" × 6" AND 9" × 6".

Nº 2 EXTRA HEAVY SIZES — 4 × 3", 4½ × 3½", 5" × 4" AND 6" × 4".

Nº 3 SEMICIRCULAR PIPES — 3" × 2½", 4 × 3", 5" × 3½", AND 6" × 4". — CONNECTIONS SAME AS FOR Nº 2

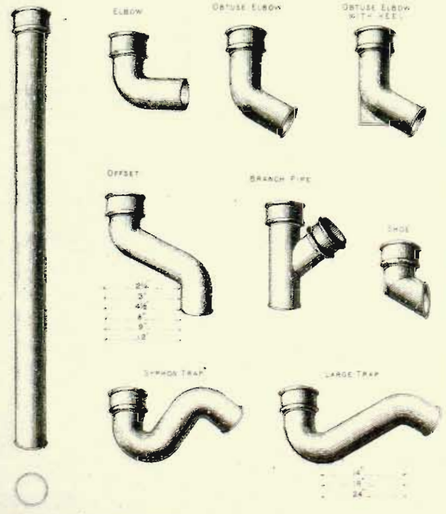
No. 2 Square Pipes, when for Corners, must be equal sided, and No. 2 Corner Offsets and Shoes are only made for equal-sided Pipes, viz.:—2½ × 2½, 3 × 3, 3½ × 3½, 4 × 4, 4½ × 4½, 5 × 5, and 6 × 6.

Besides the Elbows and Offsets shown, we can make them of any angle or length, and the Offsets to suit any projection of cornice or plinth *to order*.

See Ornamental Ears and Spikes for fastening, page 11.

Nº 9 EXTRA HEAVY

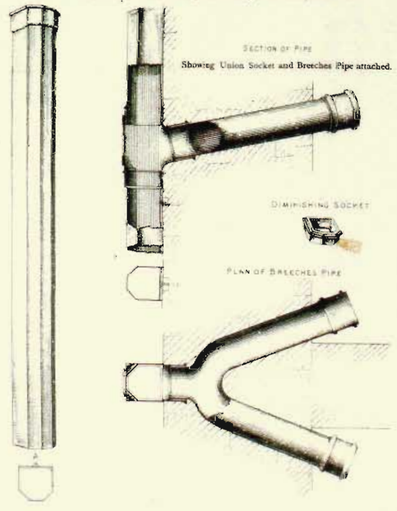
For Rainwater and Soil. The Faucet admits of packing joints to prevent escape of gases, &c.



2¼", 3", 3½", 4", 4½" AND 5" INSIDE DIAMETER

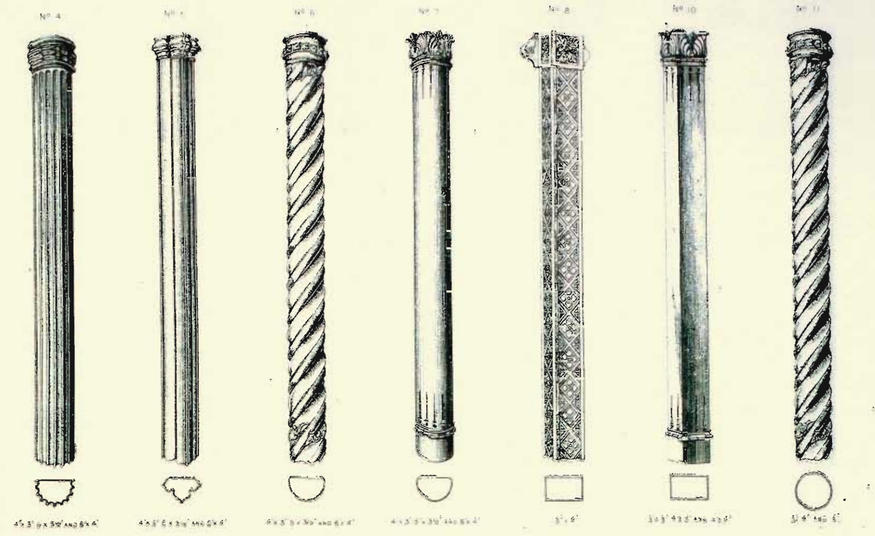
Nº 19 HEXAGON

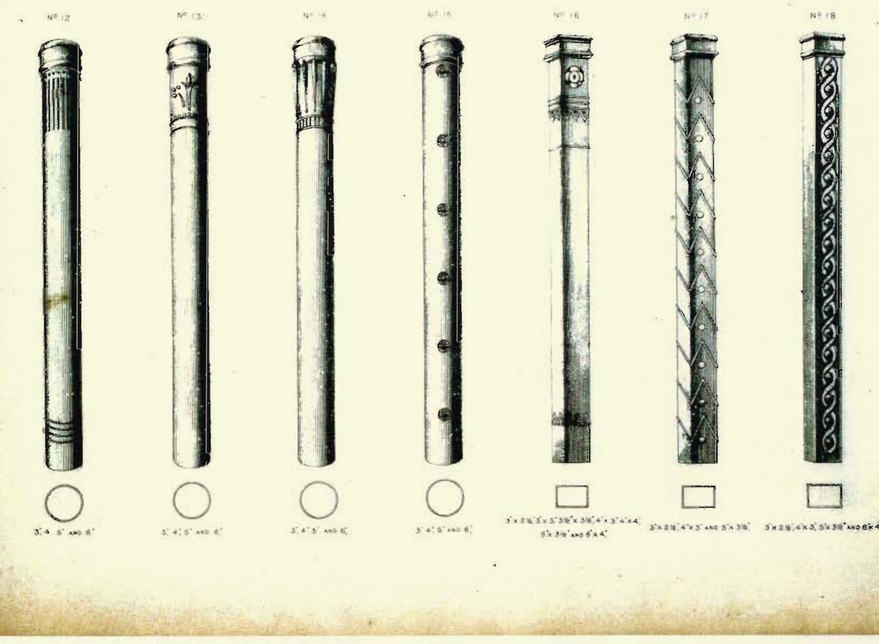
For Prisons, Asylums, &c. The large size is placed from ground to top flat, the small size joined by diminishing Socket continues to Eaves Gutter. They are fixed by eyelet A to wrought-iron hooks in wall. They are unclimbable, and have no fittings that might be tampered with.



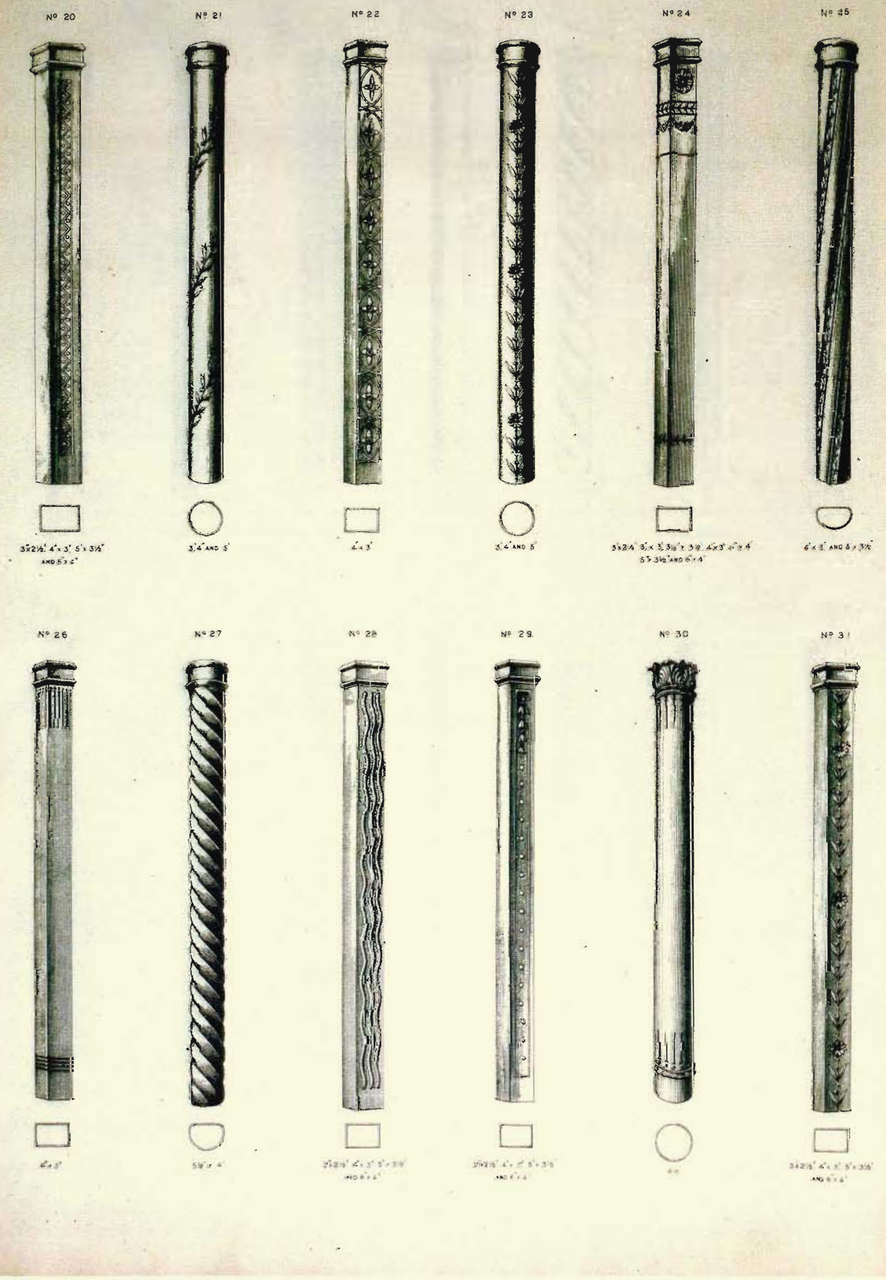
MACFARLANE'S CASTINGS — ORNAMENTAL PIPES

See Ornamental Ears and Spikes for fastening, page 11. Nos. 4, 5, 6, 7, 10, 11, and 30 Pipes are fixed by Earwings, dovetailed into Pipe-Faucet.



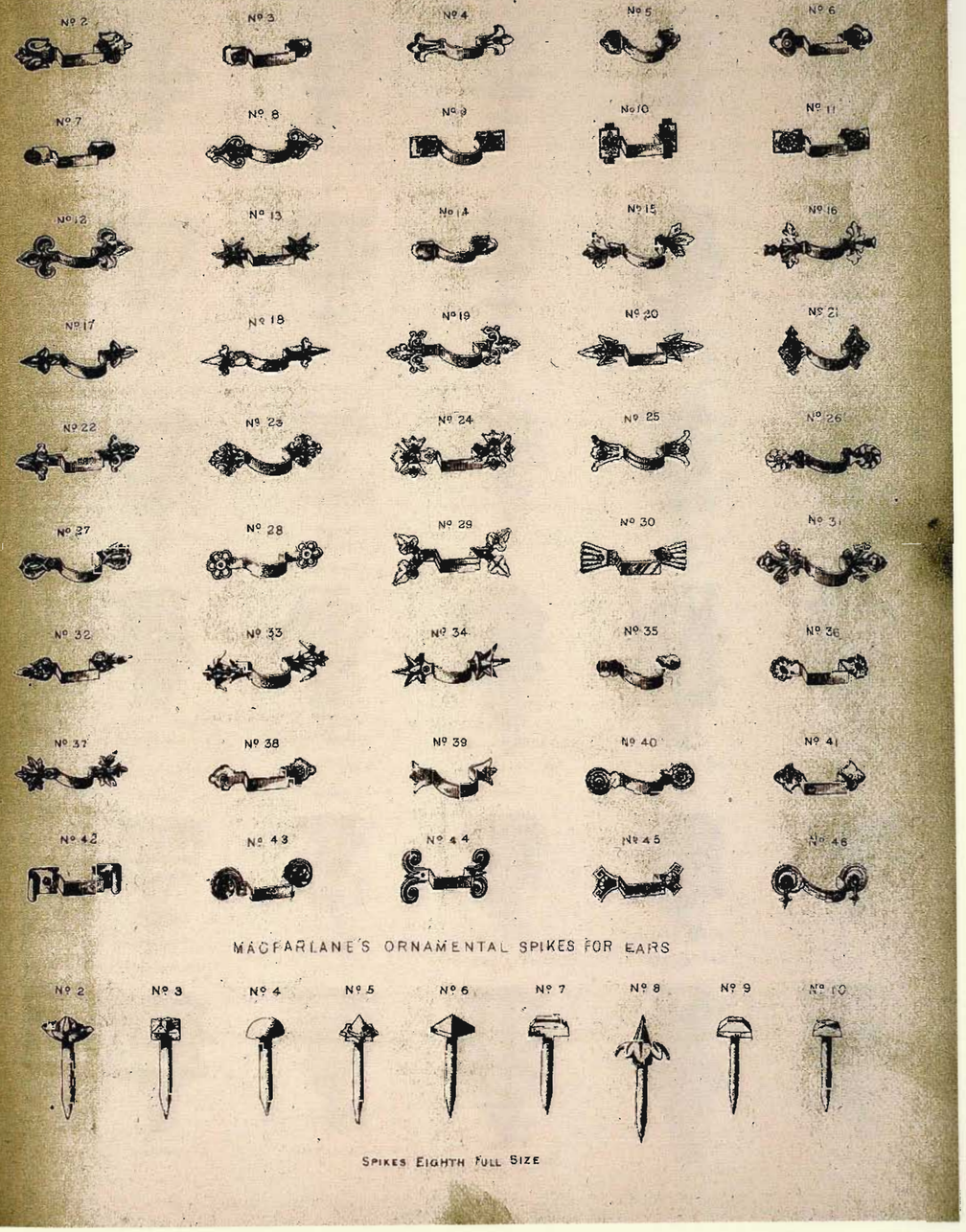


MACFARLANE'S CASTINGS — ORNAMENTAL PIPES



MACFARLANE'S CASTINGS — ORNAMENTAL EARS

The Fastenings for Rainwater Pipes were of the most primitive kind prior to our introduction of these important fixings, the judicious application of which gives so much character to the building. It is sometimes desirable to put the date of the building on the Ear nearest the top, as on No. 5. They are made to fit every pattern and size of pipe in our Catalogue either for flat Walls or corners. When for Nos. 4, 5, 6, 7, 10, 11, and 30 Pipes, the belt is dispensed with, the Earwings only being required.

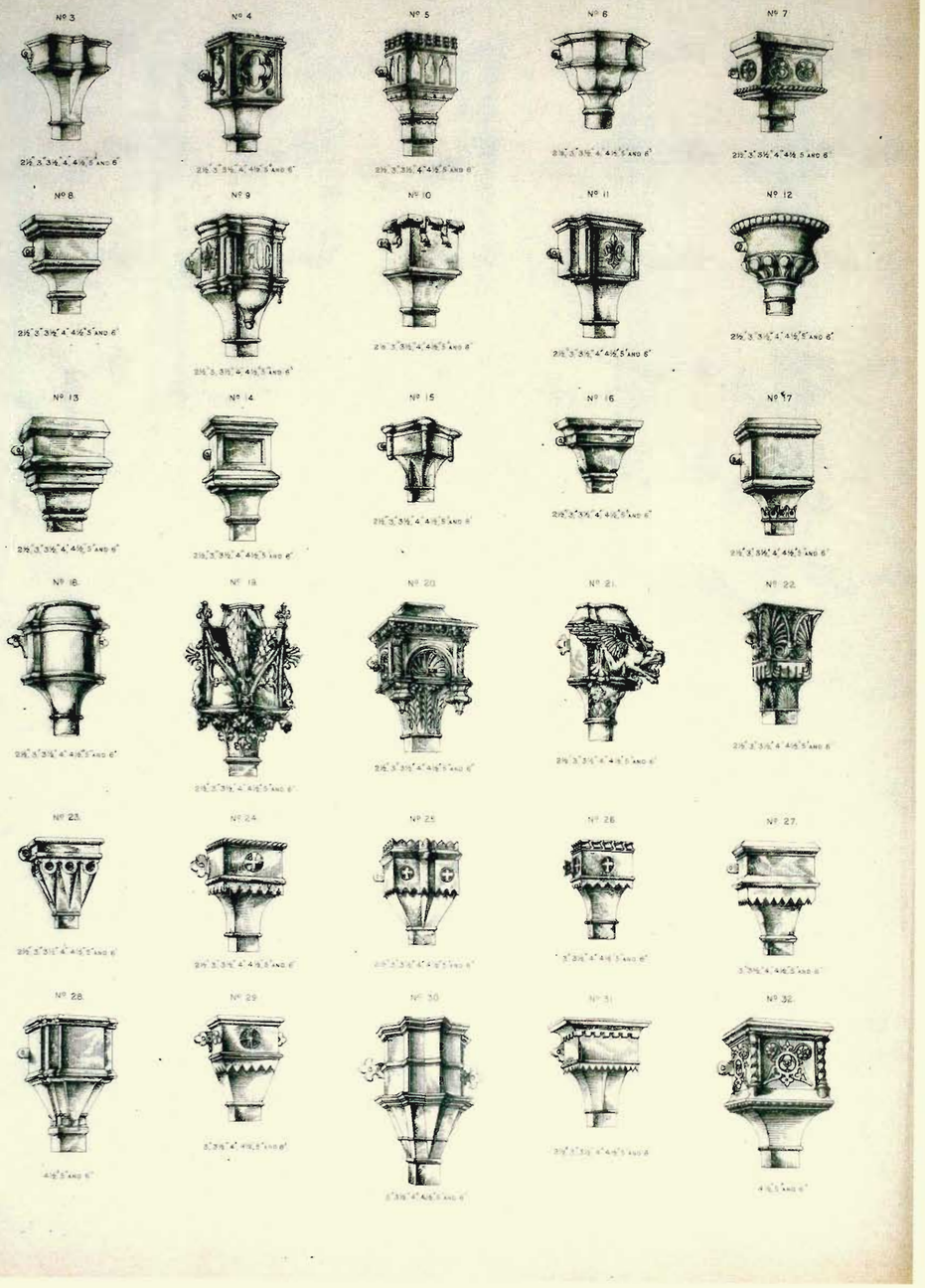


MACFARLANE'S ORNAMENTAL SPIKES FOR EARS

SPIKES EIGHTH FULL SIZE

MACFARLANE'S CASTINGS — ORNAMENTAL HEADS.

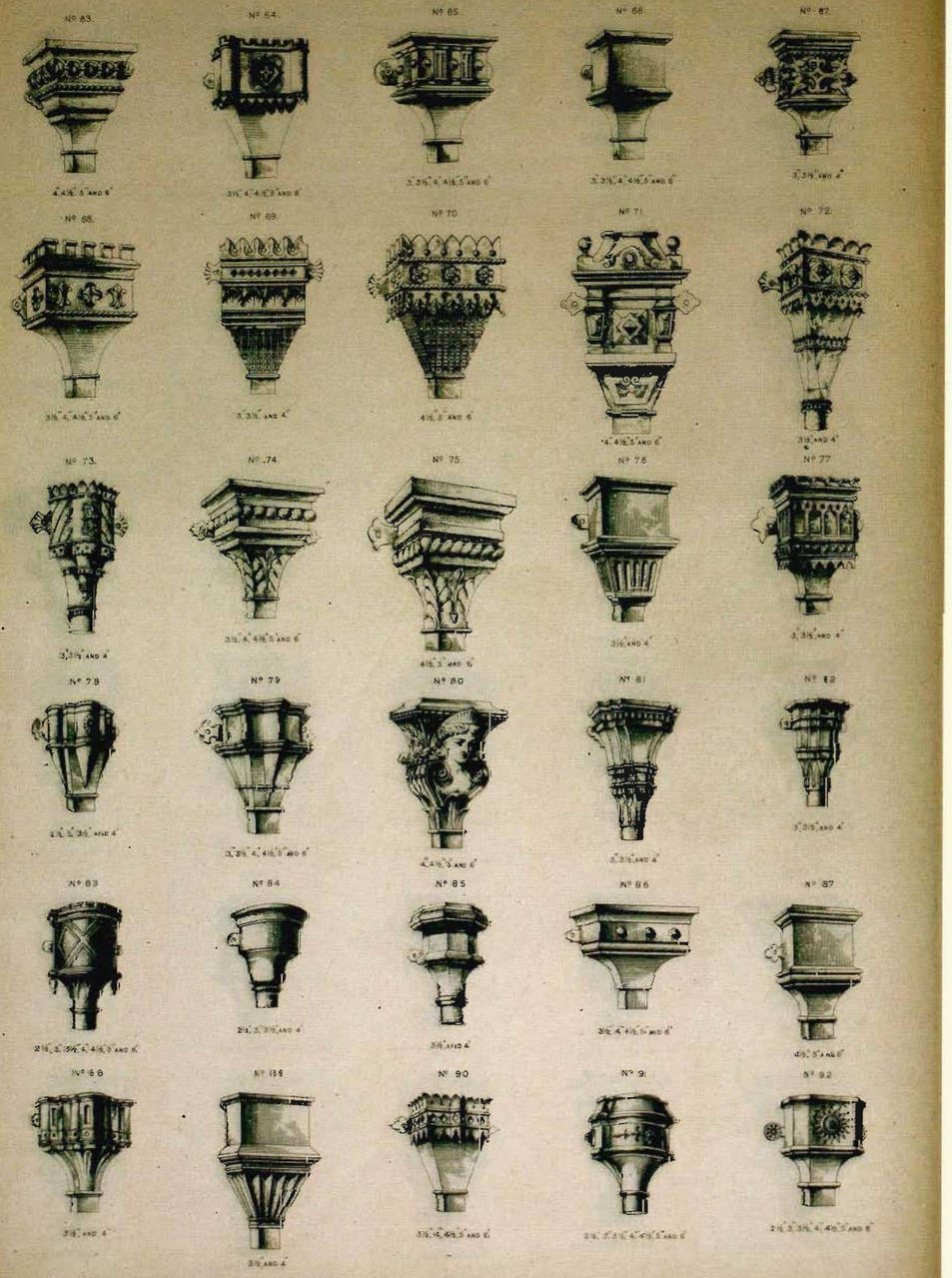
The important position which these occupy, and the enhanced character and style they impart to a building, give considerable scope for variety of design, as illustrated by the following patterns which can be supplied for any pattern of Pipe. Crests, Monograms, Dates, &c., can be cast on *to order*.



MACFARLANE'S CASTINGS — ORNAMENTAL HEADS.



MACFARLANE'S CASTINGS — ORNAMENTAL HEADS.



MACFARLANE'S CASTINGS — ORNAMENTAL HEADS.



MACFARLANE'S ORNAMENTAL PIPE CONNECTIONS.

These Connections are made to suit every pattern and size of pipe in our Catalogue, and the Offsets for any projection of Plinth.

The Ornamental Obtuse Elbow connects outside pipes with those inside of building, when it is not practicable to continue outside pipes to ground. *See example, No. 1. page 16.*

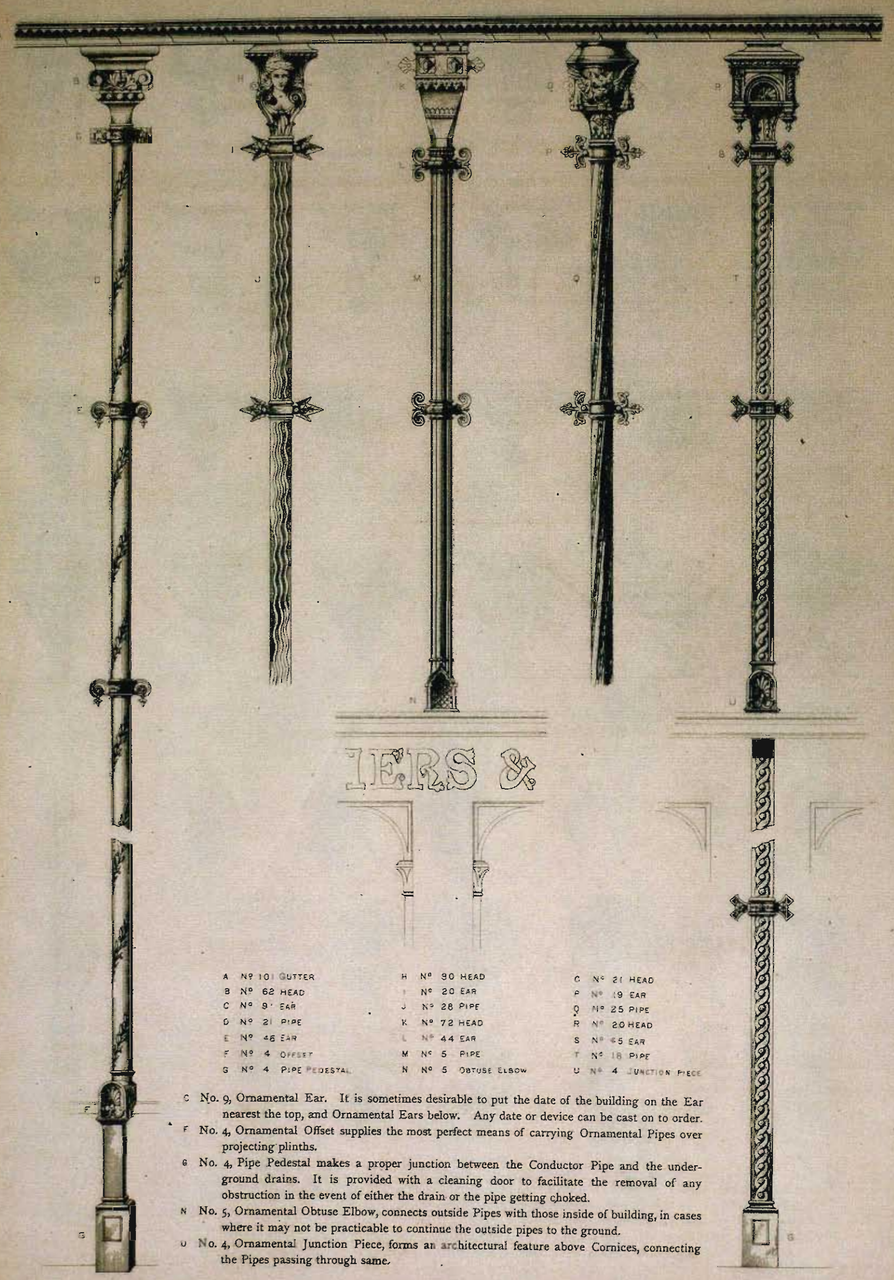
The Ornamental Junction Piece forms an Architectural feature above Cornices, connecting the pipes passing through same. *See example, No. 1. page 16.*

No. 4 Pedestal we have introduced for the purpose of making a proper Junction between the Conductor Pipe and the Underground Drain. It is fitted with a cleaning door to facilitate the removal of any obstruction in the pipe or drain.

MACFARLANE'S CASTINGS — EXAMPLES

Ornamental Pipes, Heads, Ears, Spikes, and connections to buildings.

N° 1



A N° 101 GUTTER	H N° 90 HEAD	C N° 21 HEAD
B N° 62 HEAD	I N° 20 EAR	P N° 19 EAR
C N° 9 EAR	J N° 28 PIPE	Q N° 25 PIPE
D N° 21 PIPE	K N° 72 HEAD	R N° 20 HEAD
E N° 46 EAR	L N° 44 EAR	S N° 65 EAR
F N° 4 OFFSET	M N° 5 PIPE	T N° 18 PIPE
G N° 4 PIPE PEDESTAL	N N° 5 OBTUSE ELBOW	U N° 4 JUNCTION PIECE

C No. 9, Ornamental Ear. It is sometimes desirable to put the date of the building on the Ear nearest the top, and Ornamental Ears below. Any date or device can be cast on to order.

F No. 4, Ornamental Offset supplies the most perfect means of carrying Ornamental Pipes over projecting plinths.

G No. 4, Pipe Pedestal makes a proper junction between the Conductor Pipe and the underground drains. It is provided with a cleaning door to facilitate the removal of any obstruction in the event of either the drain or the pipe getting choked.

N No. 5, Ornamental Obtuse Elbow, connects outside Pipes with those inside of building, in cases where it may not be practicable to continue the outside pipes to the ground.

U No. 4, Ornamental Junction Piece, forms an architectural feature above Cornices, connecting the Pipes passing through same.

SECTION II.—GUTTERS.

Nos. 1, 2, and 3 Half Round Gutters,	pages 17—18	Valley Gutters,	pages 66—73
Nos. 5 and 6, O. G. Gutters,	„ 18	Connections, Ornaments, Brackets, &c.,	„ 74—76
Ornamental Gutters,	„ 19—58	Drop and Snow Grates,	„ 76
Circular Gutters,	„ 59—60	Examples Nos. II. and III.,	„ 77
Boundary Wall Gutters,	„ 61—65	Also other examples at end of Catalogue.	

The Illustrations are arranged in the order of their widths.

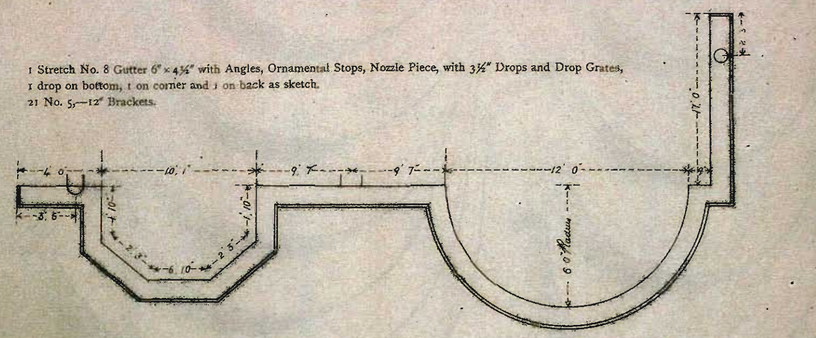
The growing importance of this section has induced us to adopt more perfect methods of production, in order to insure a uniform thickness and consequent greater strength, with the regularity of line, essential to a wall cornice. The variety of Gutters, and the numerous sizes we make of each, provide for almost every style of building and form of roof. Their adoption greatly lowers the cost of building, and imparts to the architectural features a pleasing individuality.

Please specify in schedule "To be Macfarlane's Castings" to prevent an inferior article being supplied.

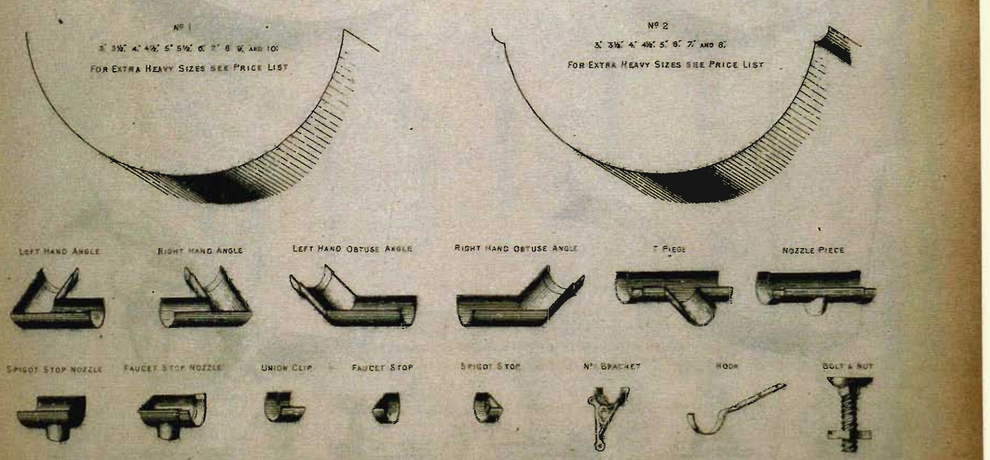
DIRECTIONS FOR ORDERING.

State the Nos. and sizes, and either order so many lengths along with the necessary Angles, Nozzle Pieces, Stops, &c., or by giving us a rough plan of the building with exact measurements, we will furnish them, all properly marked, and ready for fitting up. State also the No. and size of downpipe. The following example shows the simplest method of ordering, and giving measurements when wanted cut, ready for fitting up. The double line indicates the front of gutter.

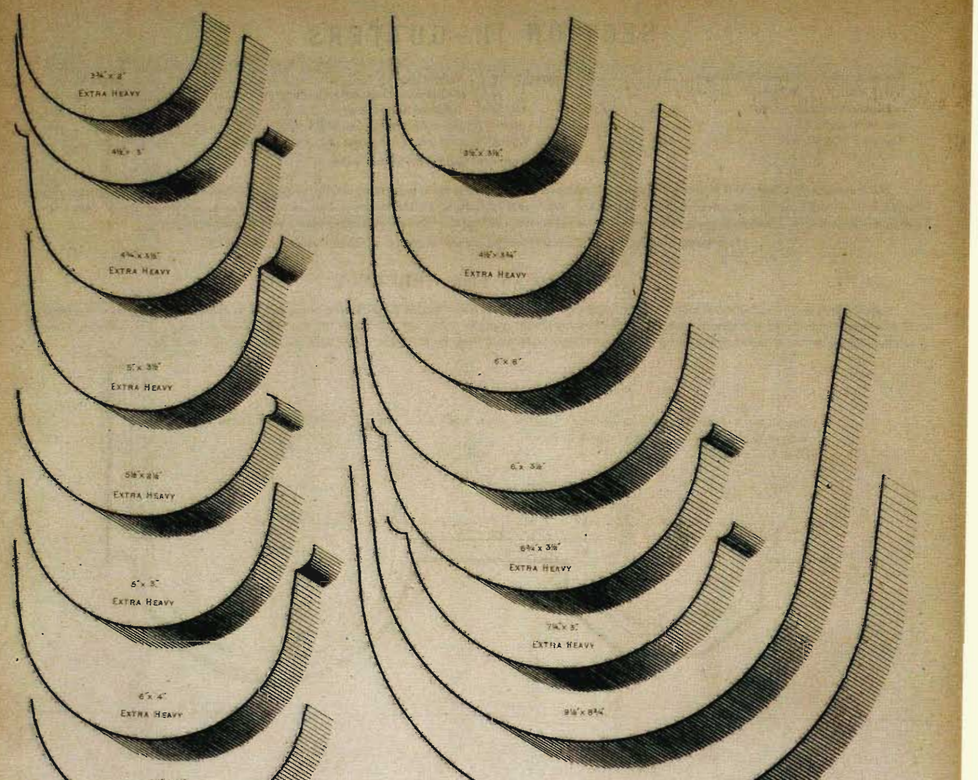
1 Stretch No. 8 Gutter 6" × 4¾" with Angles, Ornamental Stops, Nozzle Piece, with 3½" Drops and Drop Grates,
1 drop on bottom, 1 on corner and 1 on back as sketch.
21 No. 5,—12" Brackets.



MACFARLANE'S HALF-ROUND GUTTERS.

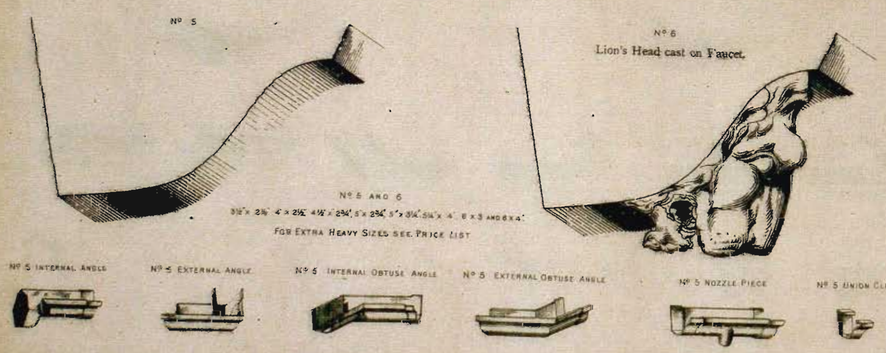


MACFARLANE'S CASTINGS — Nº3 DEEP H.R. GUTTERS.



SECTIONS HALF FULL SIZE.

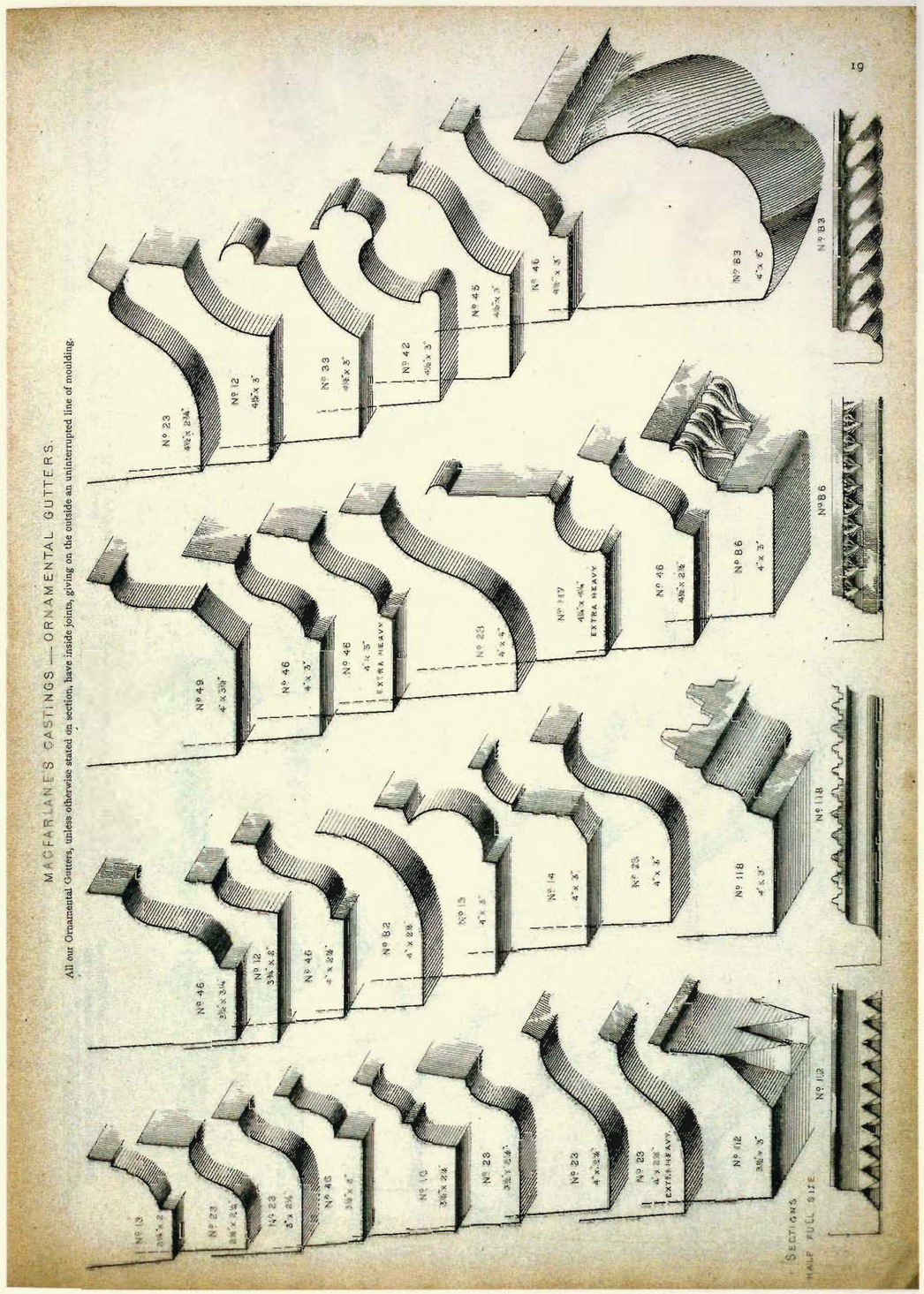
MACFARLANE'S O.G GUTTERS.



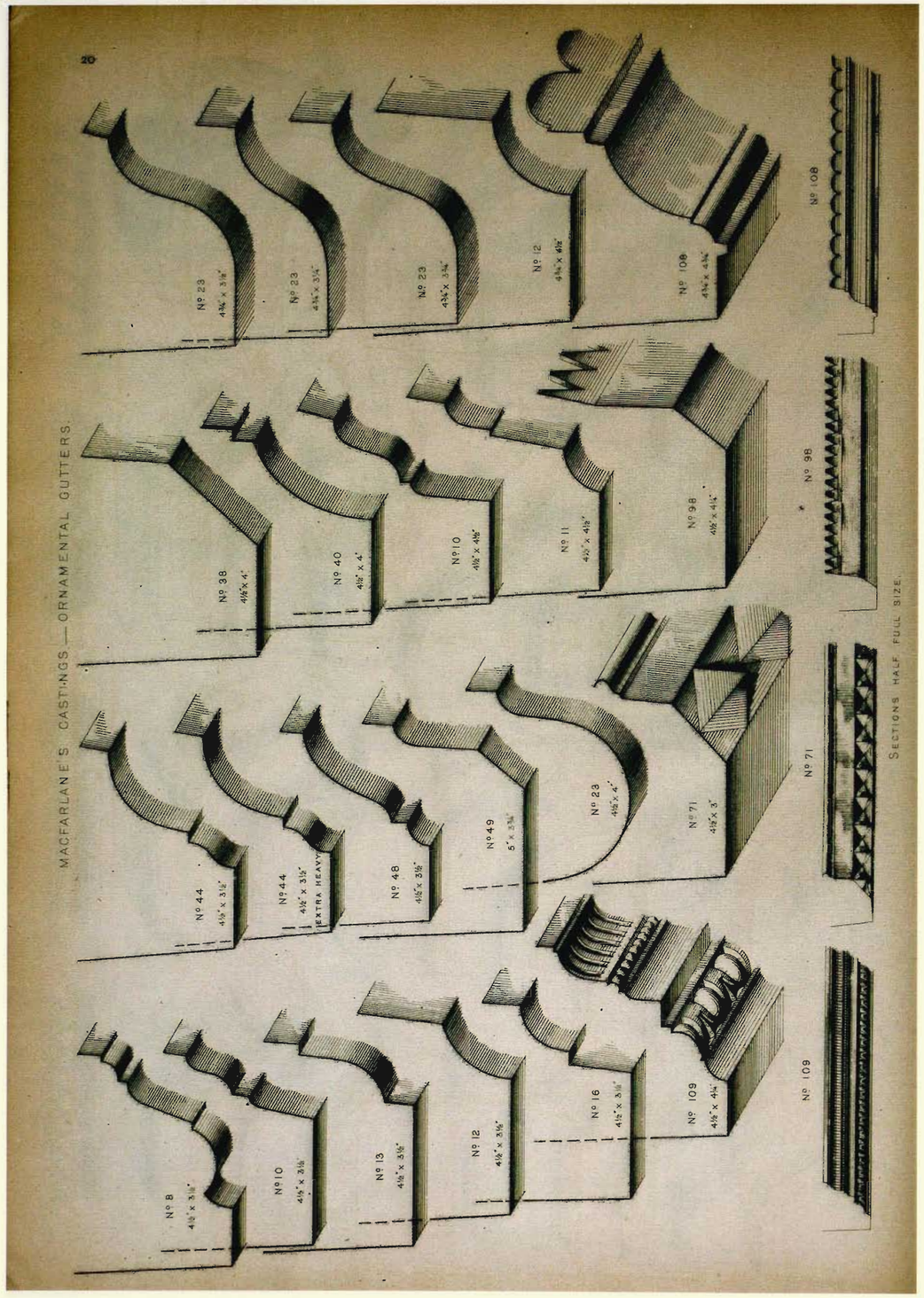
Connections for No. 6 same as for No. 5 but with lion's head on faucet.

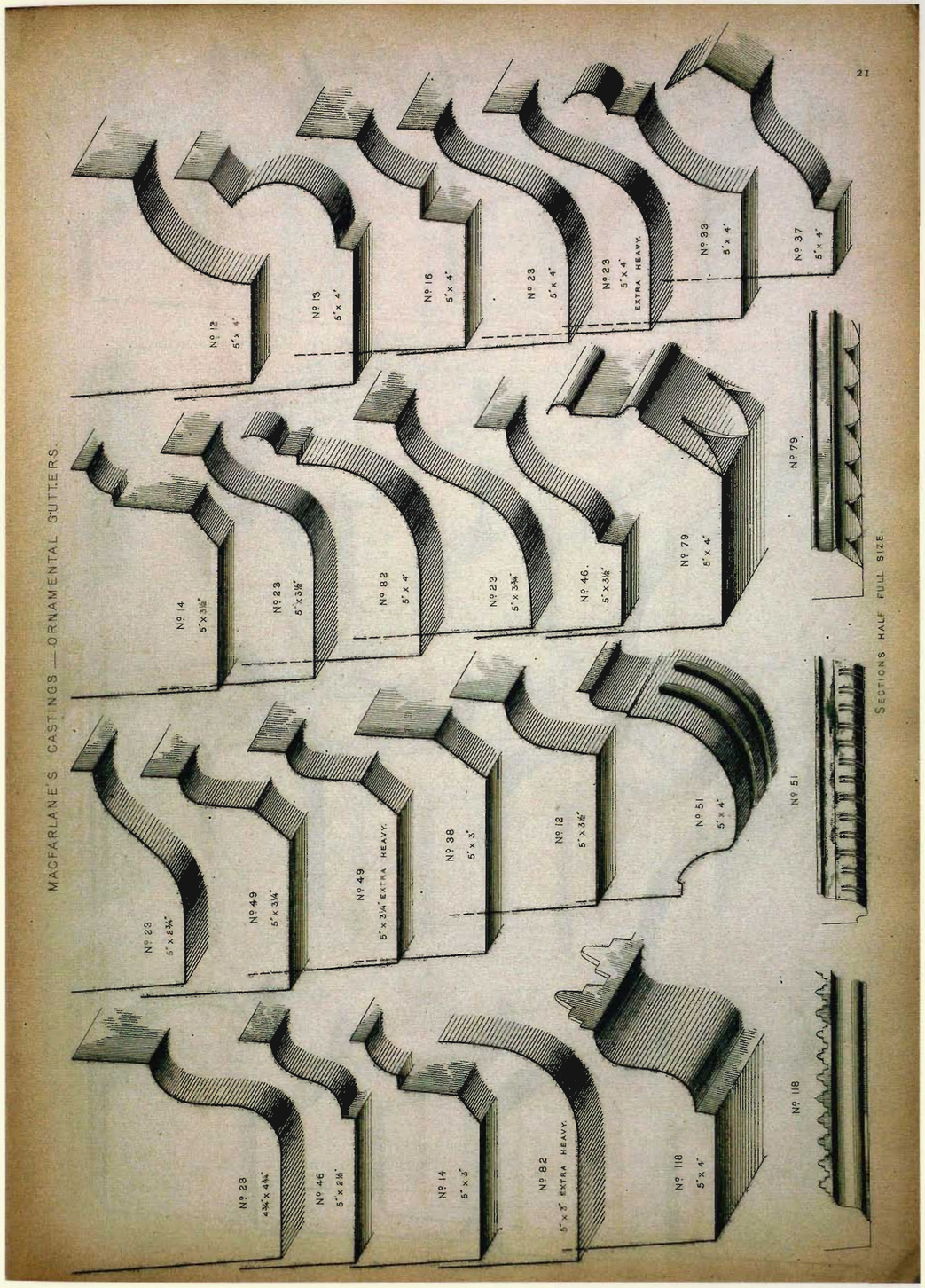
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.

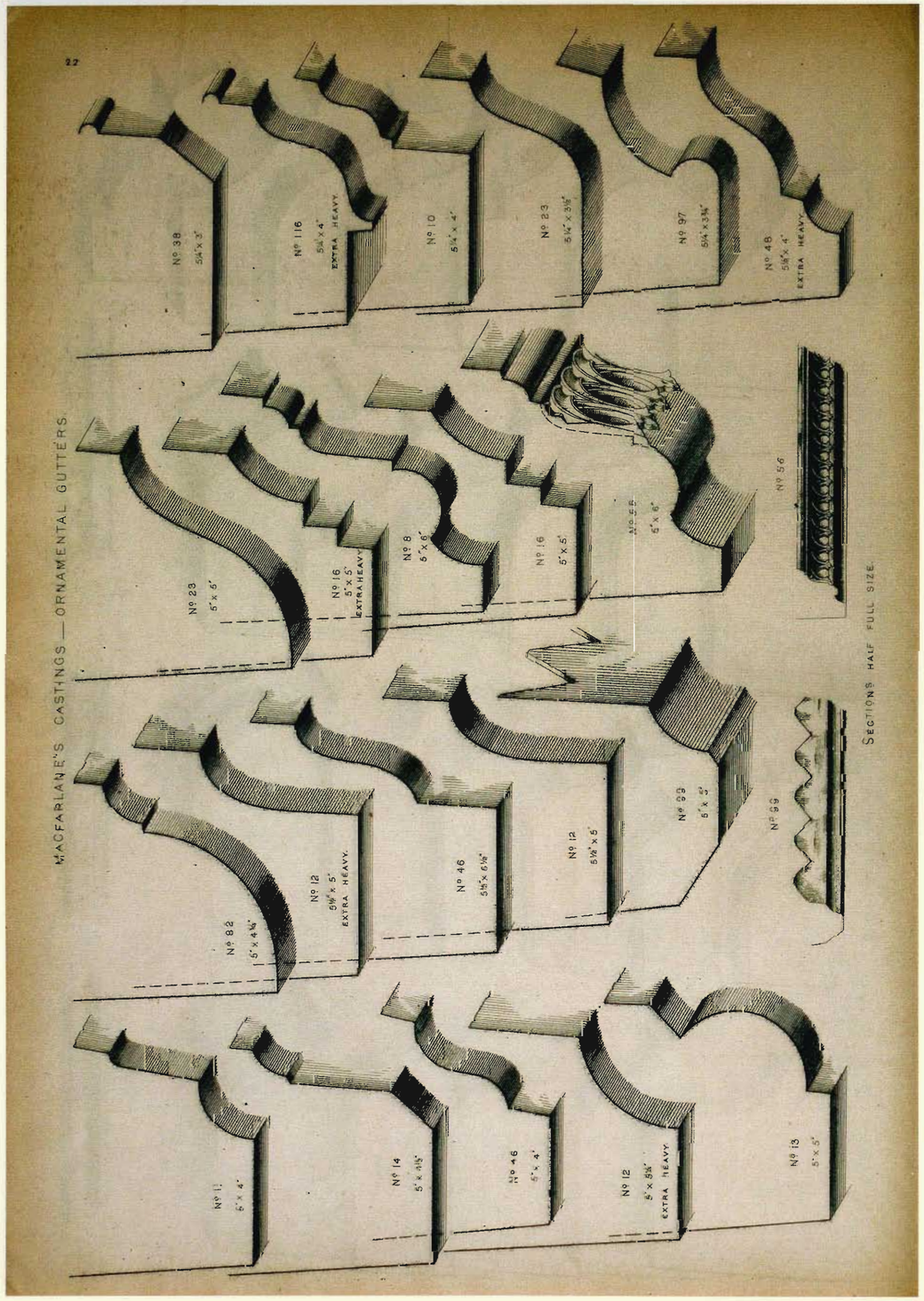
All our Ornamental Gutters, unless otherwise stated on section, have inside joints, giving on the outside an uninterrupted line of moulding.

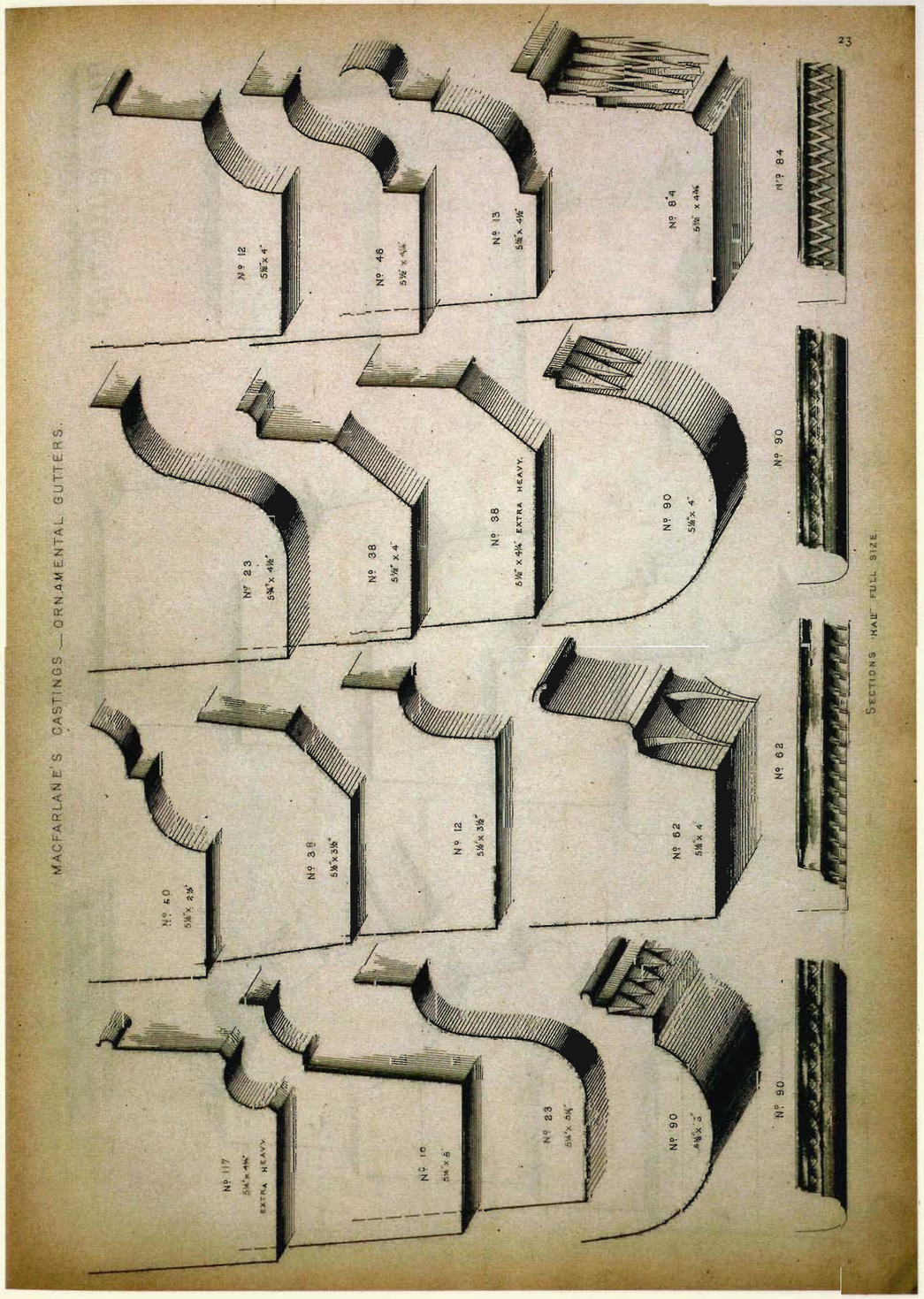


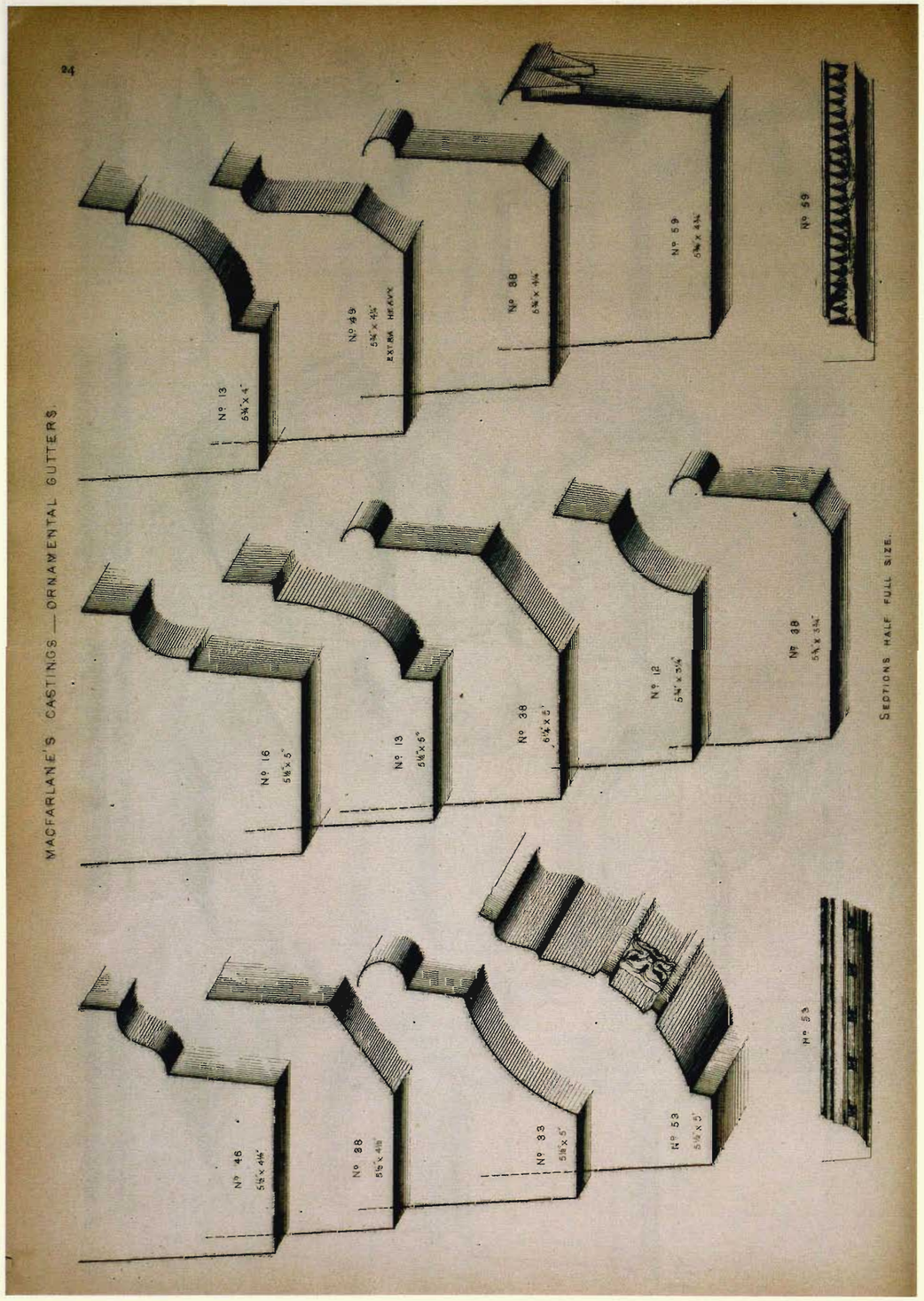
SECTIONS HALF FULL SIZE.

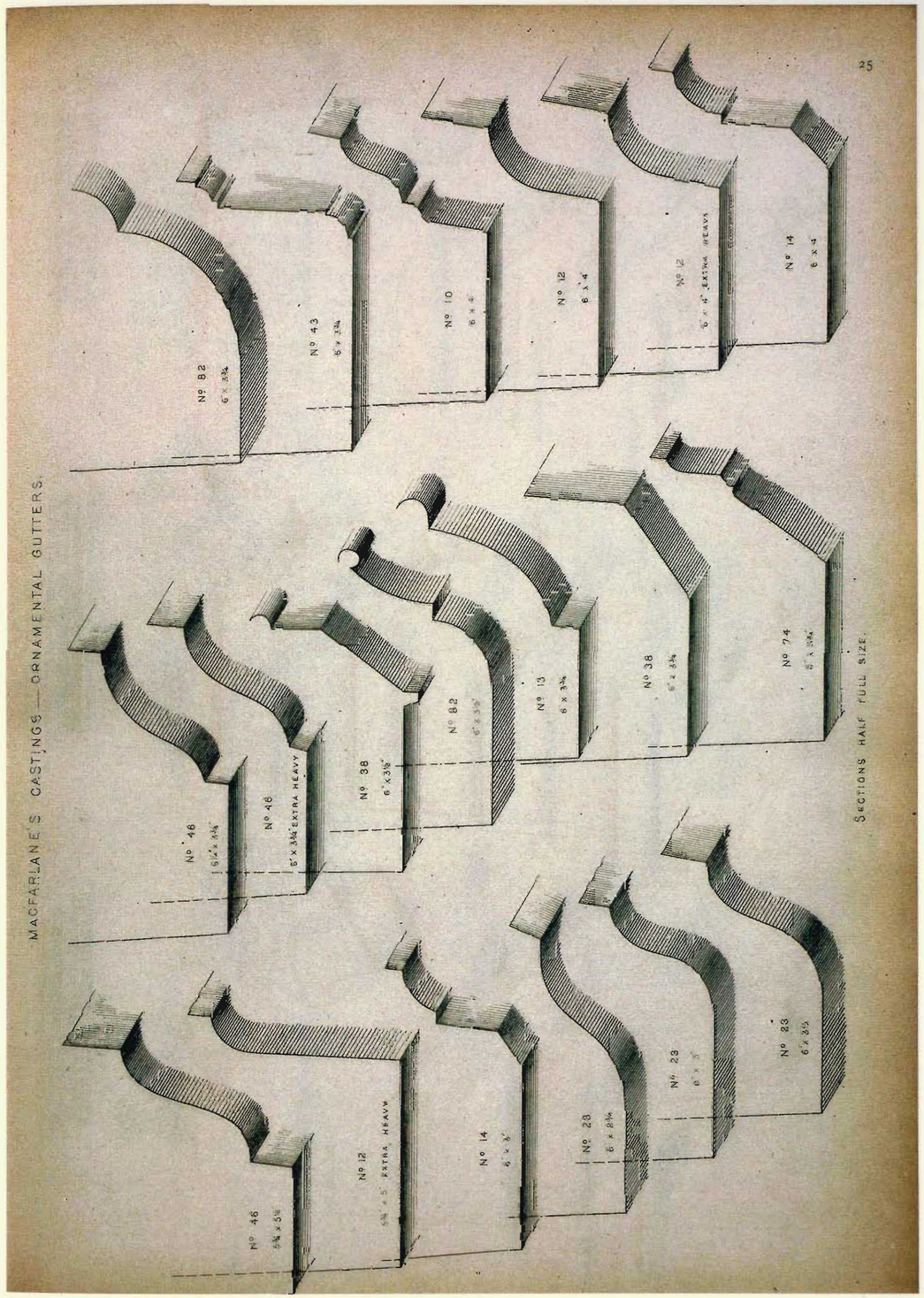

20
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.
Nº 23 4¾" x 3⅛"
Nº 23 4¾" x 3¼"
Nº 23 4¾" x 3¾"
Nº 12 4¾" x 4½"
Nº 108 4¾" x 4¾"
Nº 108
Nº 38 4½" x 4"
Nº 40 4½" x 4"
Nº 10 4½" x 4⅛"
Nº 11 4½" x 4½"
Nº 98 4½" x 4¼"
Nº 98
Nº 44 4½" x 3⅛"
Nº 44 4½" x 3⅛" EXTRA HEAVY
Nº 48 4½" x 3⅛"
Nº 49 5" x 3¾"
Nº 23 4½" x 4"
Nº 71 4½" x 3"
Nº 71
Nº 8 4½" x 3⅛"
Nº 10 4½" x 3⅛"
Nº 13 4½" x 3⅛"
Nº 12 4½" x 3⅛"
Nº 16 4½" x 3⅛"
Nº 109 4½" x 4¼"
Nº 109
SECTIONS HALF FULL SIZE.

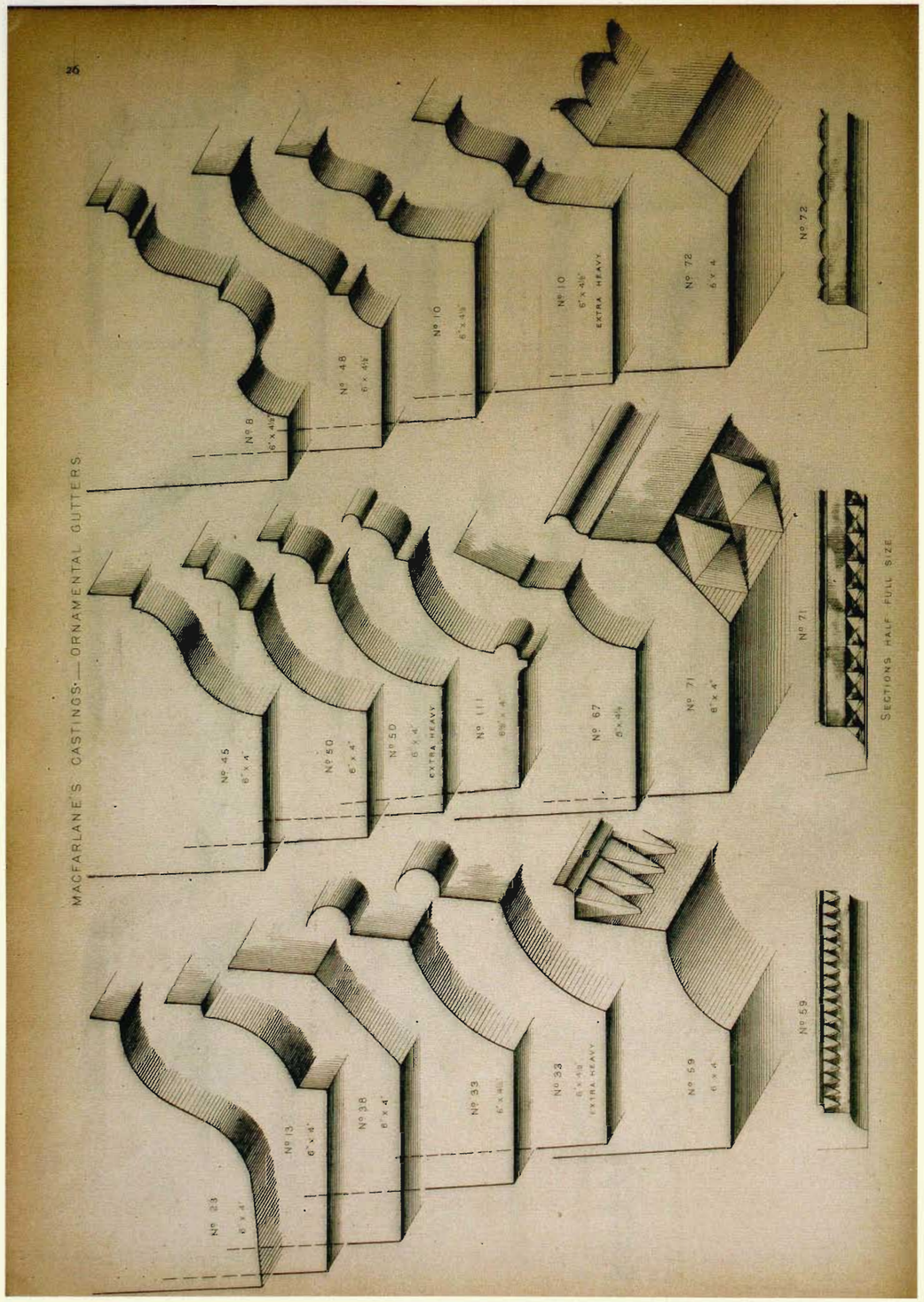

21
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.
Nº 12 5" x 4"
Nº 13 5" x 4"
Nº 16 5" x 4"
Nº 23 5" x 4"
Nº 23 5" x 4" EXTRA HEAVY
Nº 33 5" x 4"
Nº 37 5" x 4"
Nº 14 5" x 3⅛"
Nº 23 5" x 3⅛"
Nº 82 5" x 4"
Nº 23 5" x 3¾"
Nº 46 5" x 3⅛"
Nº 79 5" x 4"
Nº 79
Nº 23 5" x 2¾"
Nº 49 5" x 3¼"
Nº 49 5" x 3¼" EXTRA HEAVY
Nº 38 5" x 3"
Nº 12 5" x 3⅛"
Nº 51 5" x 4"
Nº 51
Nº 23 4¾" x 4¾"
Nº 46 5" x 2⅛"
Nº 14 5" x 3"
Nº 82 5" x 3" EXTRA HEAVY
Nº 118 5" x 4"
Nº 118
SECTIONS HALF FULL SIZE.

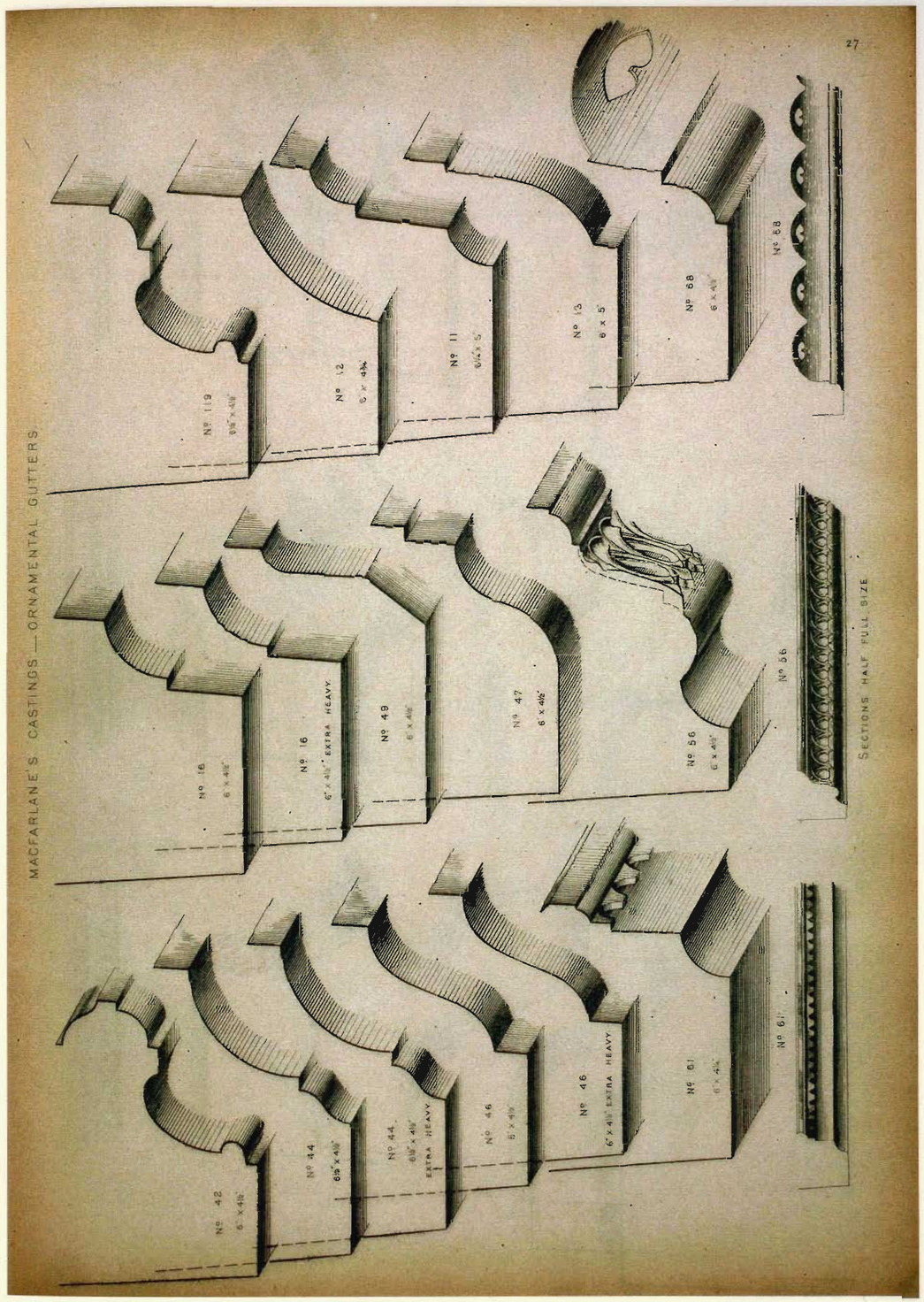

22
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.
No 38 5¼" x 3"
No 116 5¼" x 4" EXTRA HEAVY
No 10 5¼" x 4"
No 23 5¼" x 3½"
No 97 5¼" x 3¾"
No 48 5⅜" x 4" EXTRA HEAVY
No 23 5" x 6"
No 16 5" x 5" EXTRA HEAVY
No 8 5" x 6"
No 16 5" x 5"
No 56
No 82 5" x 6"
No 82 5" x 4¾"
No 12 5" x 5" EXTRA HEAVY
No 46 5⅛" x 6⅛"
No 12 5⅛" x 5"
No 93 5" x 5"
No 93
No 11 5" x 4"
No 14 5" x 4⅛"
No 46 5" x 4"
No 12 5" x 5¾" EXTRA HEAVY
No 13 5" x 5"
SECTIONS HALF FULL SIZE.

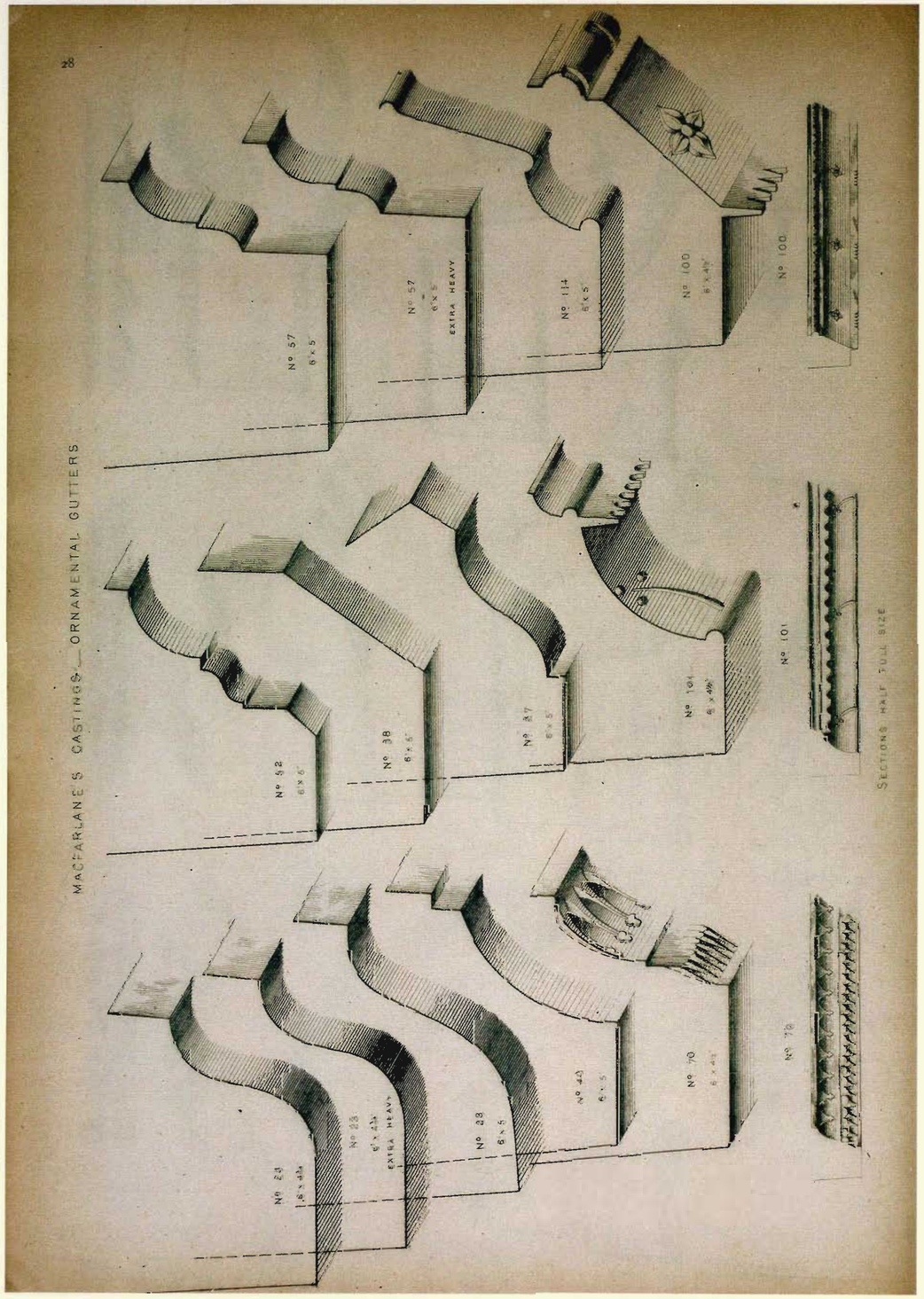

23
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.
No 12 5⅝" x 4"
No 46 5½" x 4¼"
No 13 5⅝" x 4½"
No 84 5½" x 4¼"
No 84
No 23 5¾" x 4½"
No 38 5⅝" x 4"
No 38 5⅝" x 4¼" EXTRA HEAVY.
No 90 5⅝" x 4"
No 90
No 60 5⅝" x 2⅝"
No 38 5⅝" x 3⅛"
No 12 5⅝" x 3⅛"
No 62 5⅛" x 4"
No 62
No 117 5¼" x 4¼" EXTRA HEAVY.
No 10 5¼" x 6"
No 23 5¼" x 5¼"
No 90 4⅝" x 3"
No 90
SECTIONS HALF FULL SIZE.

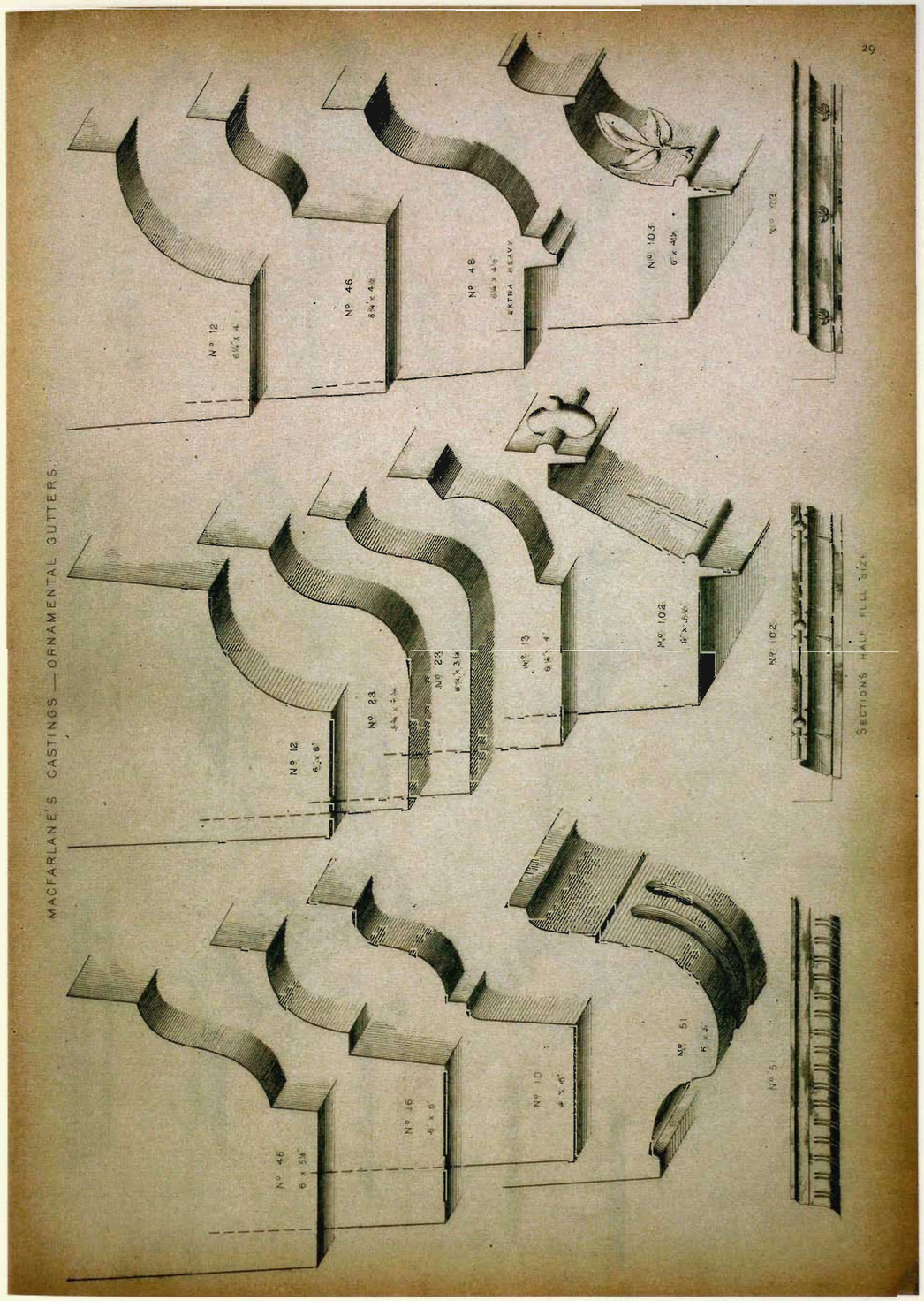

24
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.
No 13
5¾" x 4"
No 49
5¾" x 4½"
EXTRA HEAVY
No 88
6¼" x 4¼"
No 59
5¾" x 4¾"
No 59
No 16
5⅛" x 5"
No 13
5⅛" x 5"
No 38
6¼" x 5"
No 12
5¾" x 3¾"
No 38
5¾" x 3¾"
SECTIONS HALF FULL SIZE.
No 46
5⅛" x 4½"
No 88
5⅛" x 4⅛"
No 33
5⅛" x 5"
No 53
5⅛" x 5"
No 53

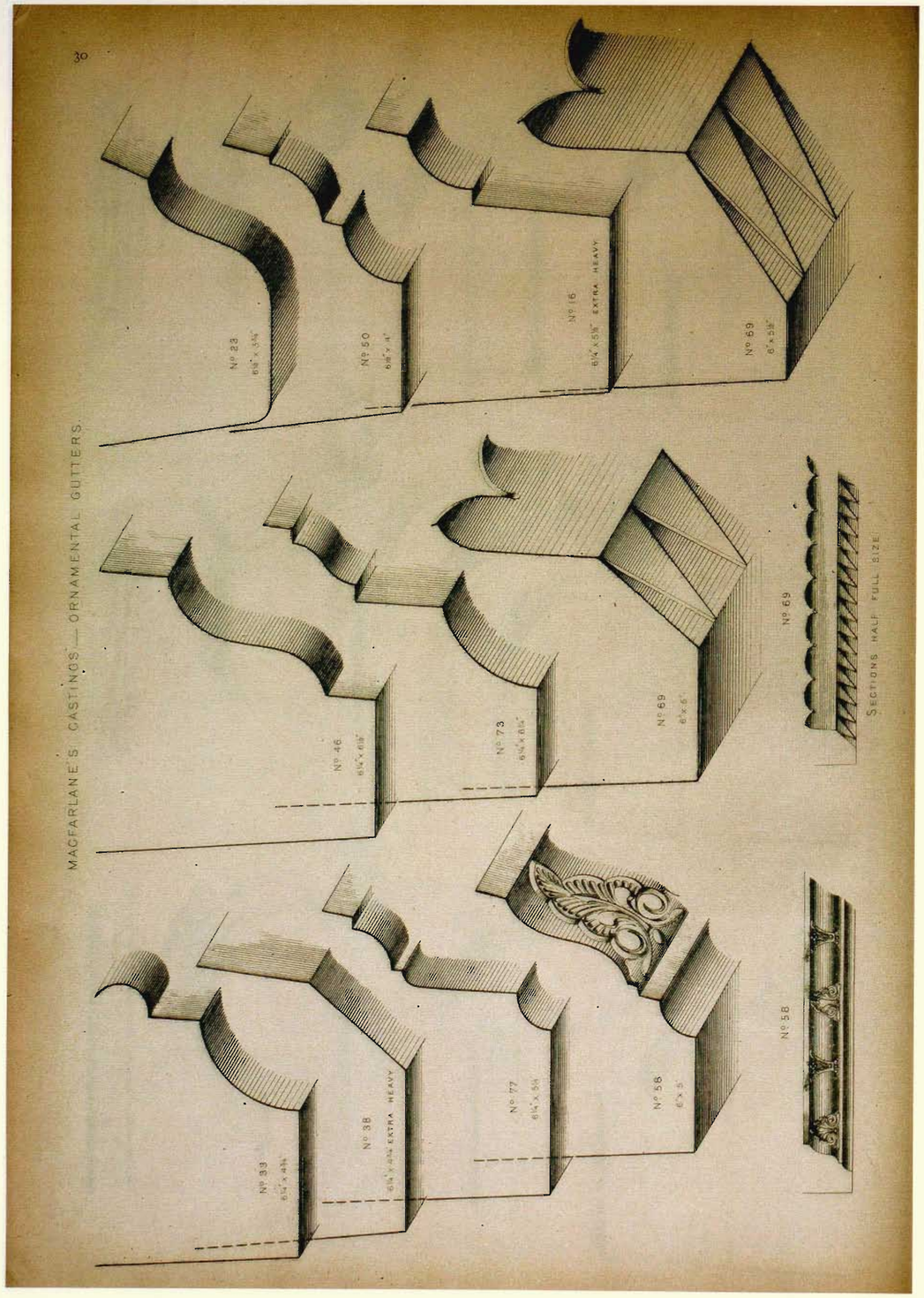

25
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.
No 82
6" x 3¾"
No 43
6" x 3¾"
No 10
6" x 4"
No 12
6" x 4"
No 12
6" x 4" EXTRA HEAVY
No 14
6" x 4"
No 46
5¼" x 3¾"
No 46
6" x 3¾" EXTRA HEAVY
No 38
6" x 3⅜"
No 82
6" x 3⅜"
No 13
6" x 3¾"
No 38
6" x 3¾"
No 74
6" x 3¾"
SECTIONS HALF FULL SIZE.
No 46
5¾" x 5⅛"
No 12
5¾" x 5" EXTRA HEAVY
No 14
6" x 4"
No 28
6" x 2¾"
No 23
6" x 3"
No 23
6" x 3½"

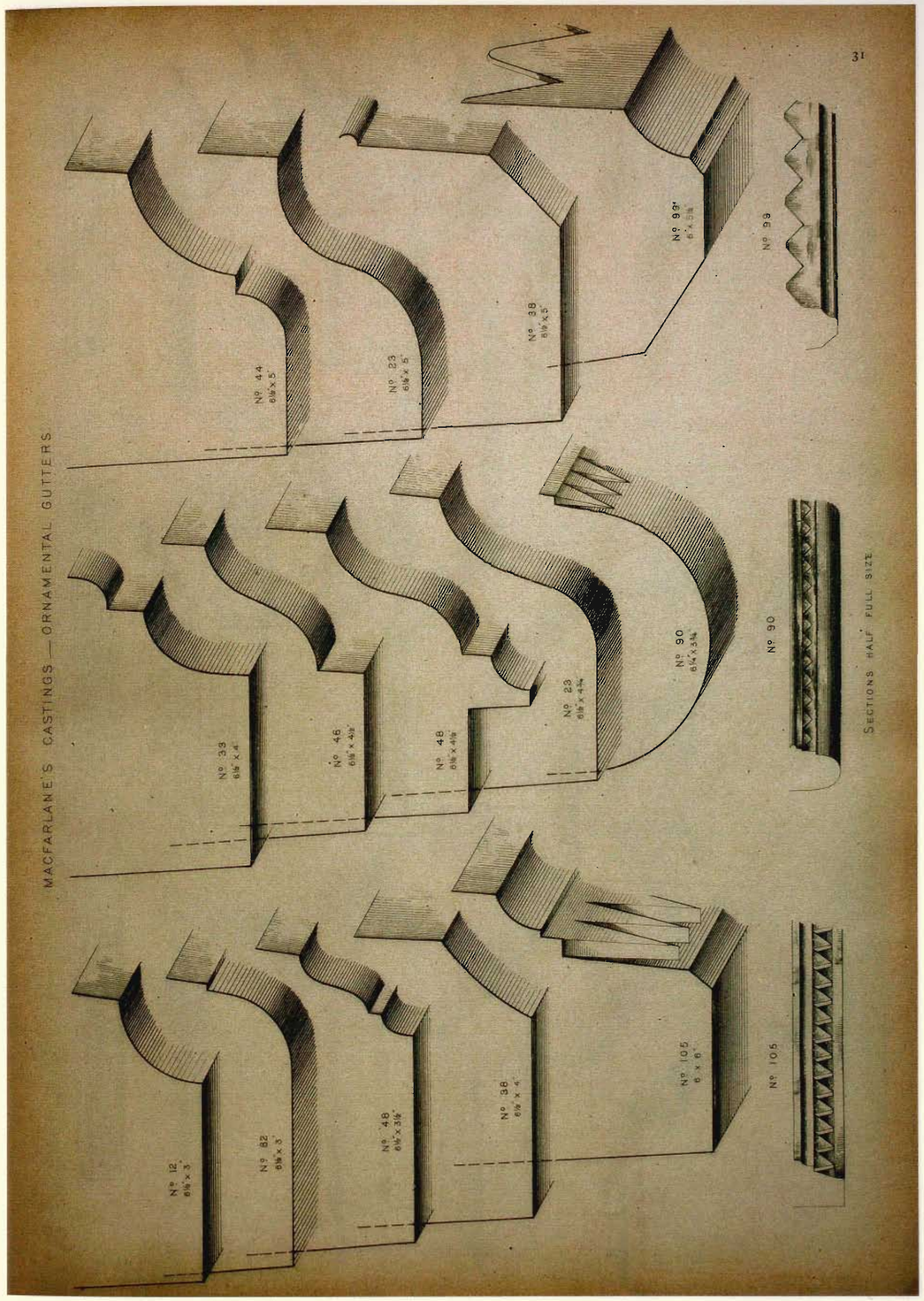

26
MACFARLANE'S CASTINGS.—ORNAMENTAL GUTTERS.
No 8
6" x 4½"
No 48
6" x 4½"
No 10
6" x 4½"
No 10
6" x 4½"
EXTRA HEAVY
No 72
6" x 4"
No 72
No 45
6" x 4"
No 50
6" x 4"
No 50
6" x 4"
EXTRA HEAVY
No 111
6" x 4"
No 67
6" x 4½"
No 71
6" x 4"
No 71
SECTIONS HALF FULL SIZE
No 23
6" x 4"
No 13
6" x 4"
No 38
6" x 4"
No 33
6" x 4½"
No 33
6" x 4½"
EXTRA HEAVY
No 59
6" x 4"
No 59

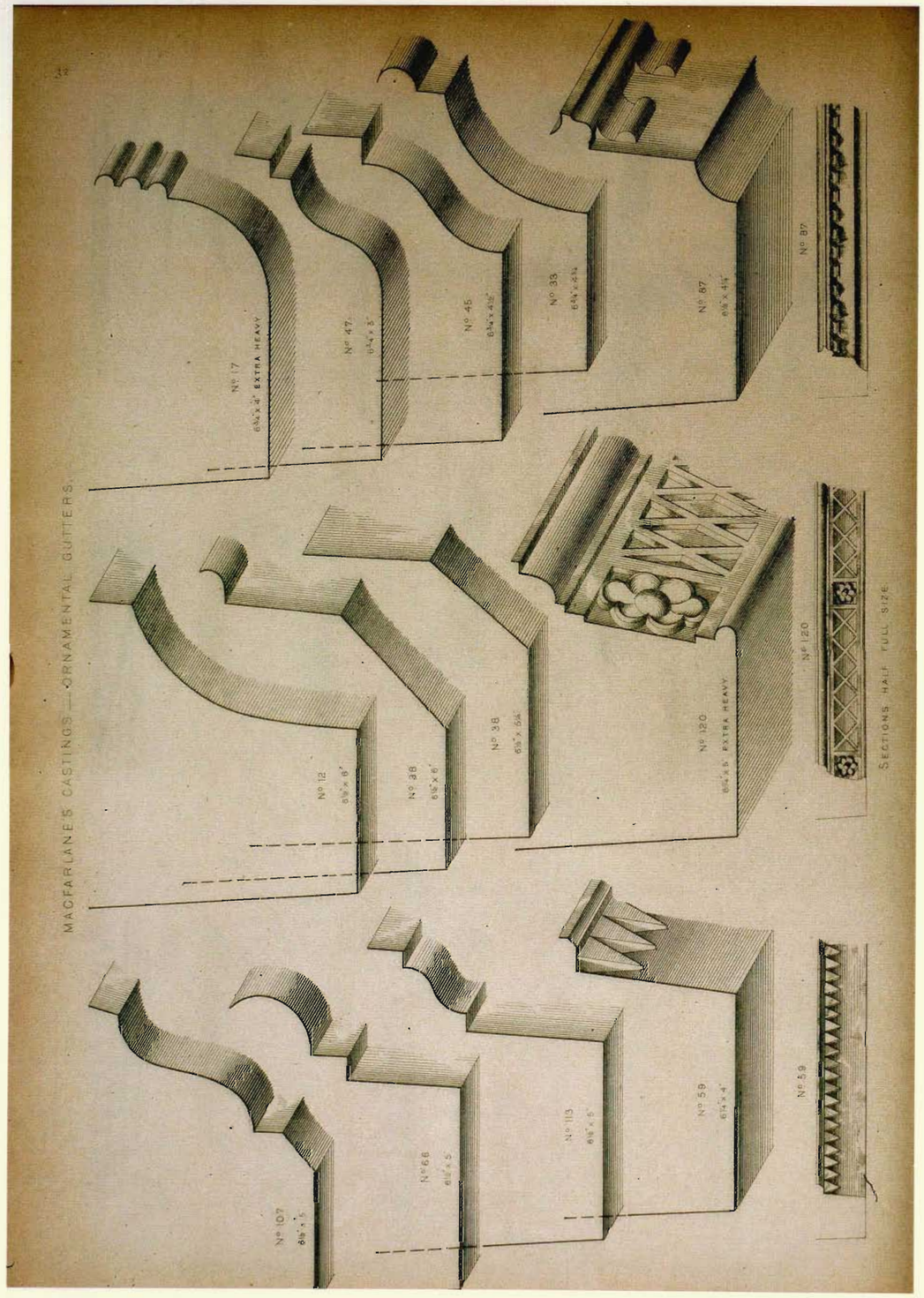

27
MACFARLANE'S CASTINGS.—ORNAMENTAL GUTTERS.
No 119
8½" x 4½"
No 12
6" x 4¾"
No 11
6¼" x 5"
No 13
6" x 5"
No 68
6" x 4½"
No 68
No 16
6" x 4½"
No 16
6" x 4½" EXTRA HEAVY
No 49
6" x 4½"
No 47
6" x 4½"
No 56
6" x 4½"
No 56
SECTIONS HALF FULL SIZE
No 42
6" x 4½"
No 44
6⅝" x 4½"
No 44
6⅝" x 4½"
EXTRA HEAVY
No 46
6" x 4½"
No 46
6" x 4½" EXTRA HEAVY
No 61
6" x 4½"
No 61

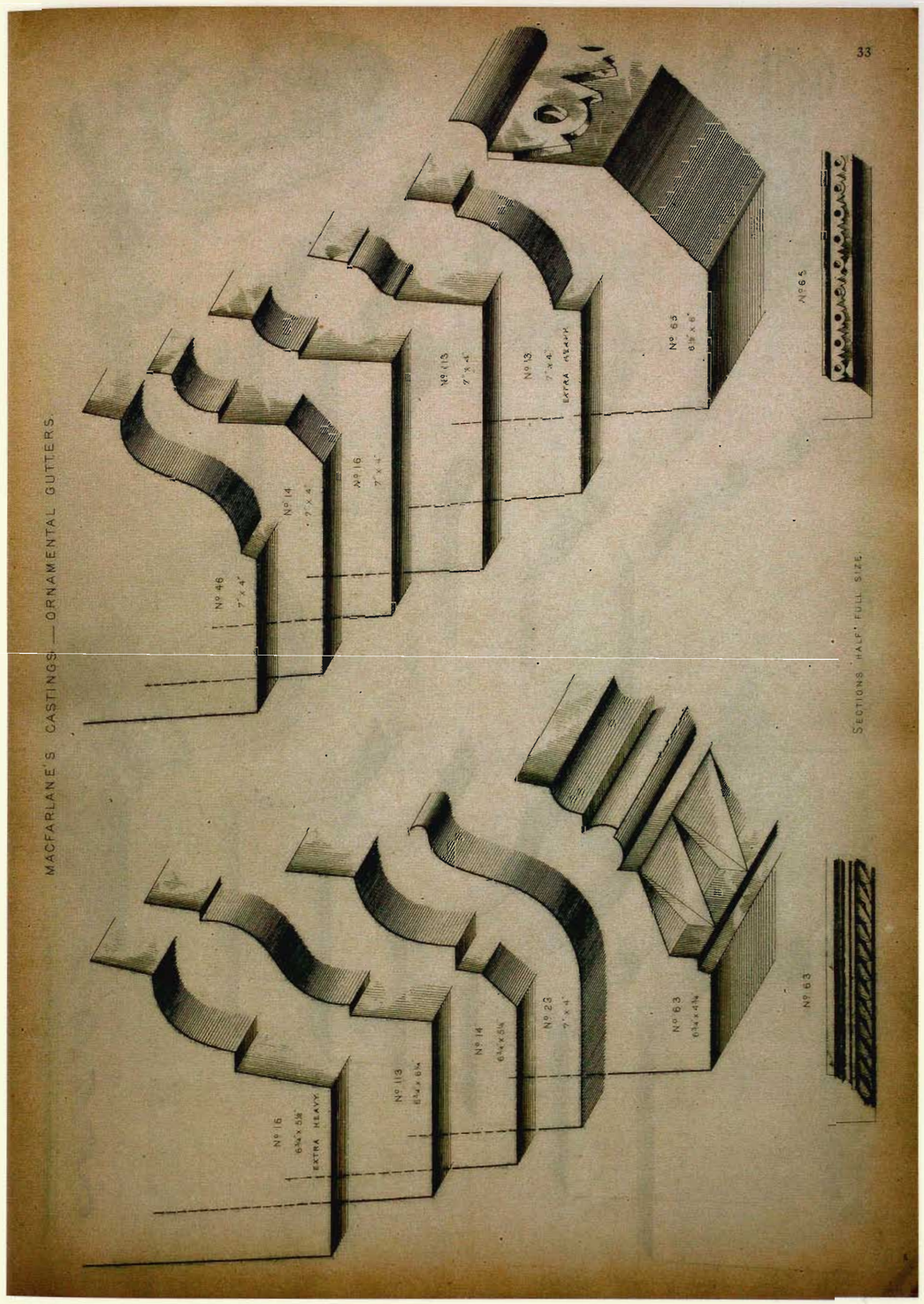

28
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS
No 57
6" x 5"
No 57
6" x 5"
EXTRA HEAVY
No 114
6" x 5"
No 100
6" x 4½"
No 100
No 52
6" x 6"
No 38
6" x 5"
No 87
6" x 5"
No 104
6" x 4½"
No 101
SECTIONS HALF FULL SIZE
No 24
6" x 4½"
No 23
6" x 4½"
EXTRA HEAVY
No 28
6" x 5"
No 43
6" x 5"
No 70
6" x 4½"
No 78

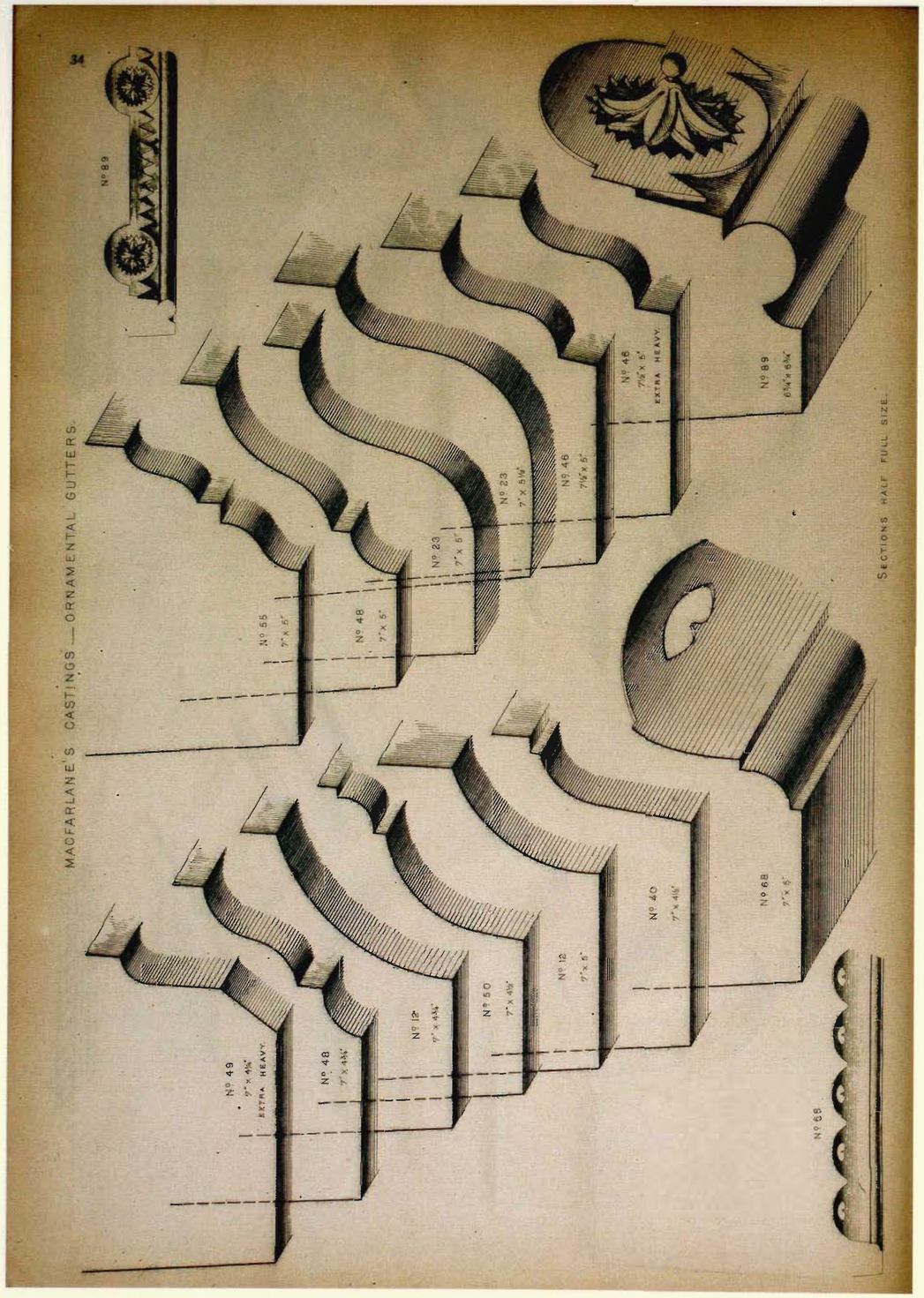

29
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS
No 12
6¼" x 4"
No 46
8¼" x 4½"
No 48
8¼" x 4½"
EXTRA HEAVY
No 103
6" x 4½"
No 123
No 12
6" x 6"
No 23
8¼" x 4½"
No 23
8¼" x 3¼"
No 13
6¼" x 4"
No 102
6" x 4½"
No 102
SECTIONS HALF FULL SIZE
No 46
6" x 5¼"
No 16
6" x 5"
No 10
6" x 6"
No 51
6" x 4"
No 51

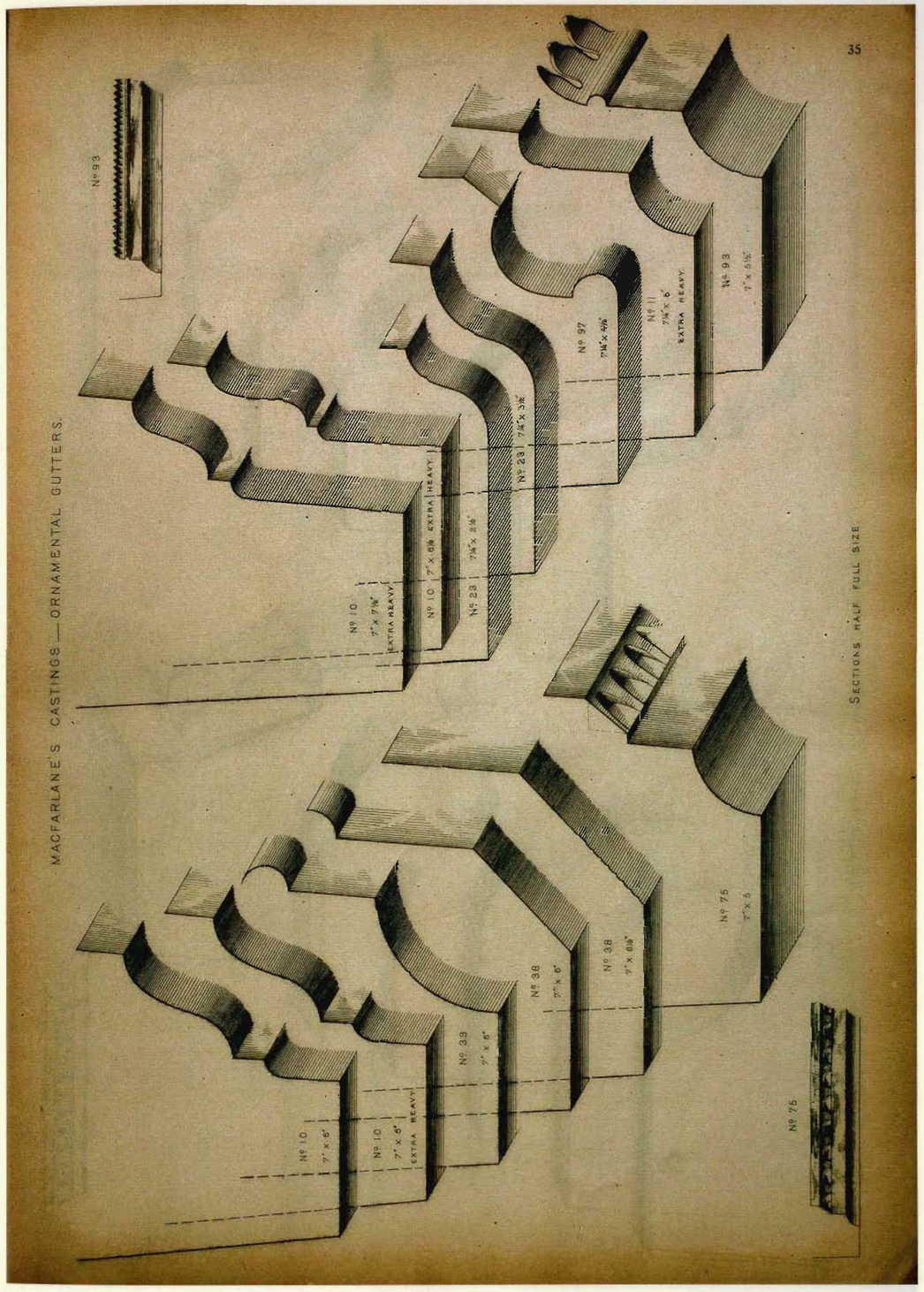

30
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.
Nº 23
6⅛" x 3¾"
Nº 50
6⅛" x 4"
Nº 16
6¼" x 5⅝" EXTRA HEAVY
Nº 69
6" x 5½"
Nº 46
6¼" x 6⅛"
Nº 73
6¼" x 6⅛"
Nº 69
6" x 6"
Nº 69
SECTIONS HALF FULL SIZE
Nº 33
6⅛" x 4¾"
Nº 38
6¼" x 4¾" EXTRA HEAVY
Nº 77
6¼" x 5⅝"
Nº 58
6" x 5"
Nº 58

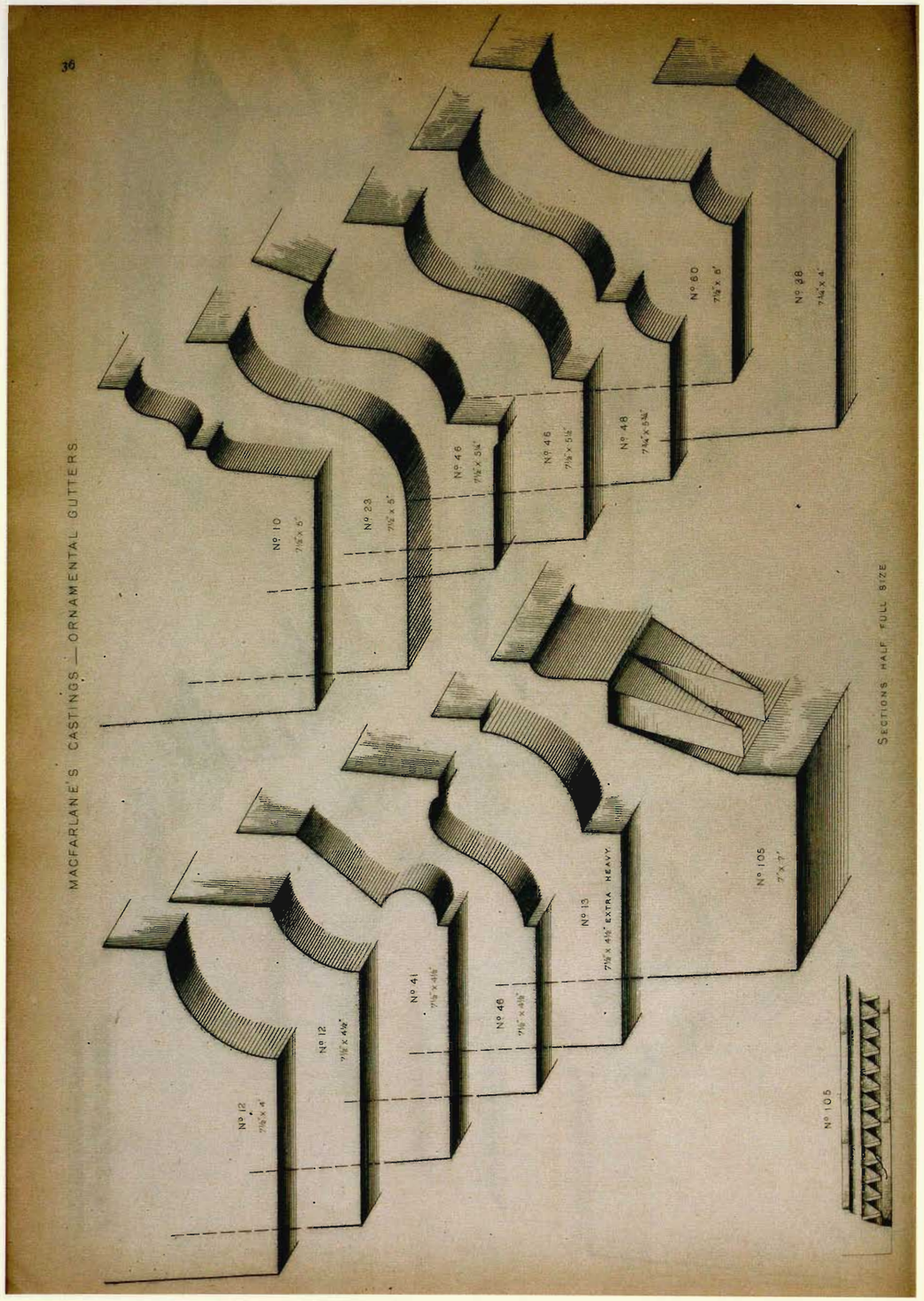

31
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.
Nº 44
6⅛" x 5"
Nº 23
6⅛" x 5"
Nº 38
6⅛" x 5"
Nº 99
6" x 5⅛"
Nº 99
Nº 33
6⅛" x 4"
Nº 46
6⅛" x 4½"
Nº 48
6⅛" x 4½"
Nº 23
6⅛" x 4¾"
Nº 90
6¼" x 3¾"
Nº 90
SECTIONS HALF FULL SIZE
Nº 12
6⅛" x 3"
Nº 82
6⅛" x 3"
Nº 48
6⅛" x 3½"
Nº 38
6⅛" x 4"
Nº 105
6" x 6"
Nº 105

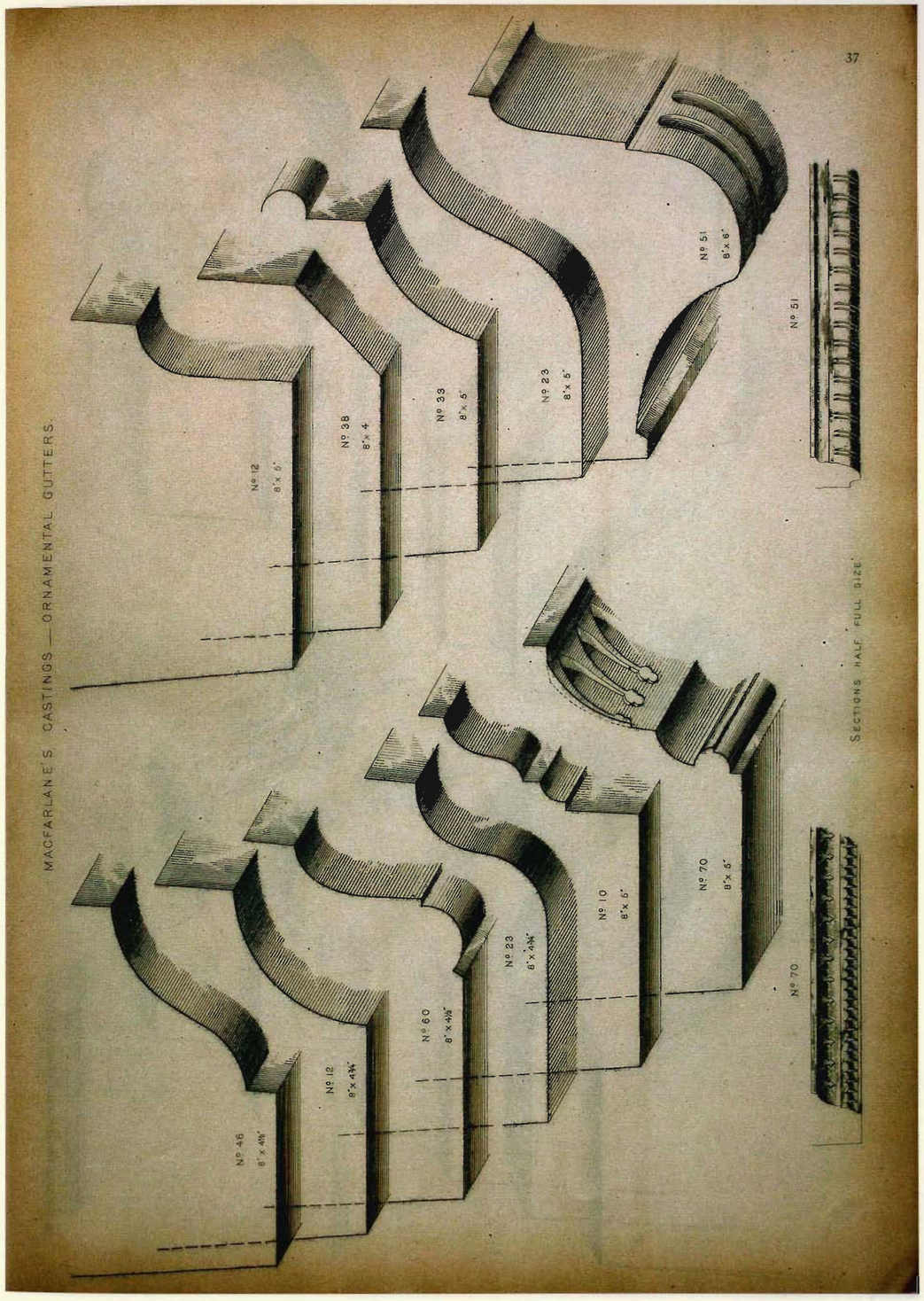

32
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.
No 17
No 47
No 45
No 33
No 87
No 87
No 12
No 88
No 38
No 120
No 120
No 107
No 66
No 113
No 59
No 59
SECTIONS HALF FULL SIZE.

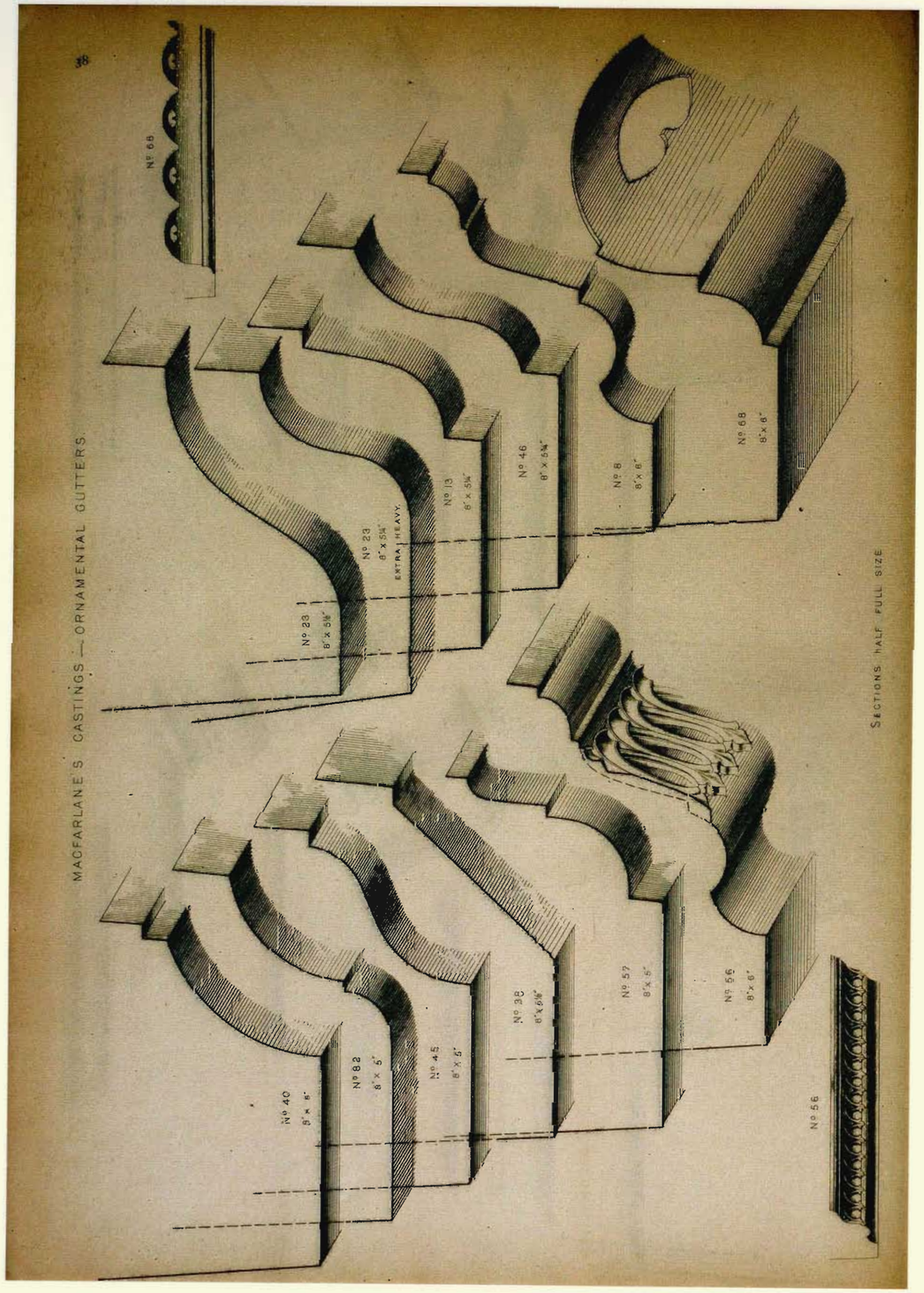

33
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.
No 46
No 14
No 16
No 113
No 13
No 65
No 65
No 16
No 113
No 14
No 23
No 63
No 63
SECTIONS HALF FULL SIZE.

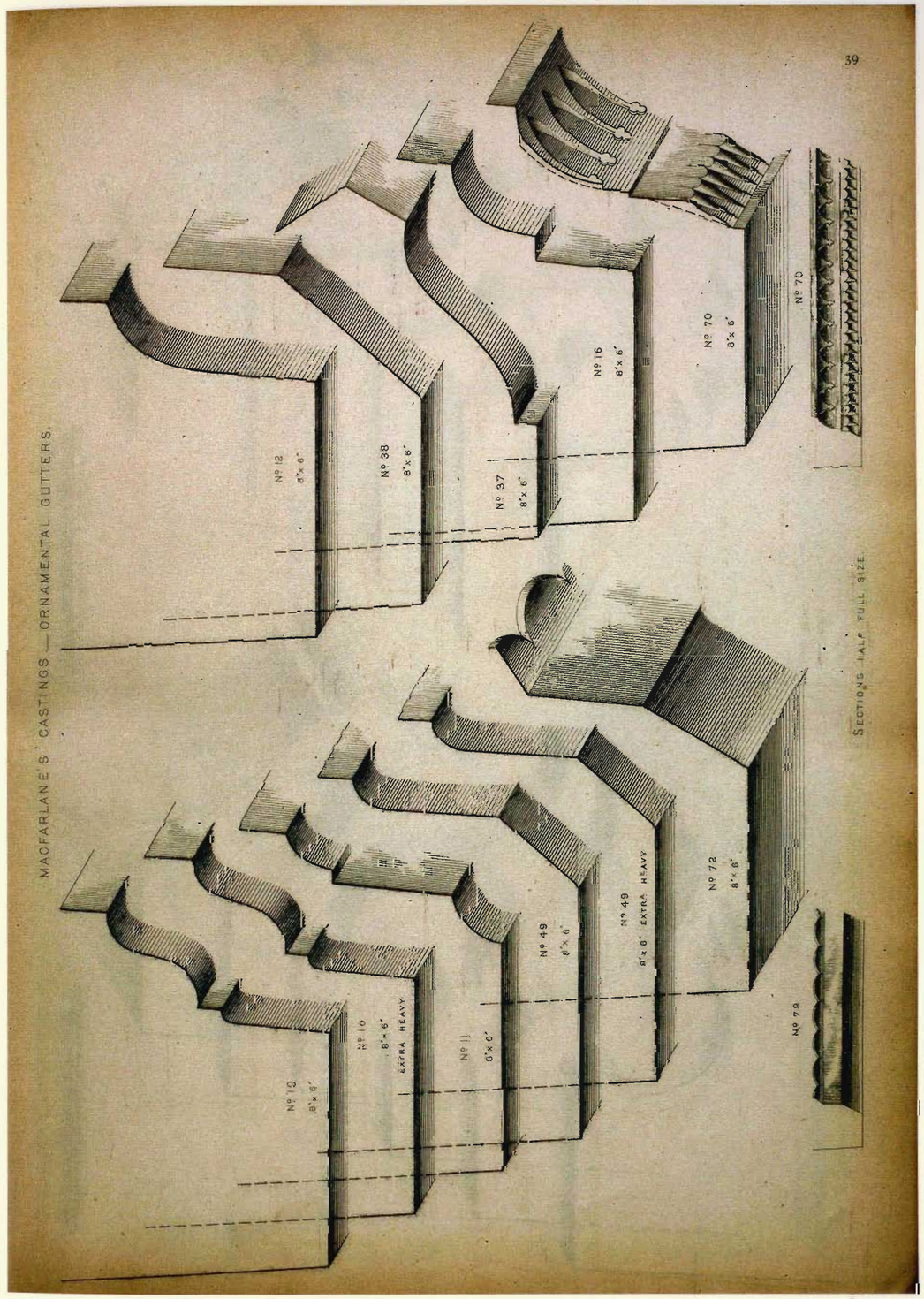

34
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.
SECTIONS HALF FULL SIZE.
No 89
No 55 7"x 6"
No 48 7"x 5"
No 23 7"x 5"
No 23 7"x 5½"
No 46 7"x 5"
No 46 7½"x 5"
No 46 7½" x 5" EXTRA HEAVY.
No 89 6¾"x 6¾"
No 49 7"x 4½" EXTRA HEAVY.
No 48 7"x 4½"
No 12 7"x 4½"
No 50 7"x 4½"
No 12 7"x 5"
No 40 7"x 4½"
No 68 7"x 6"
No 68

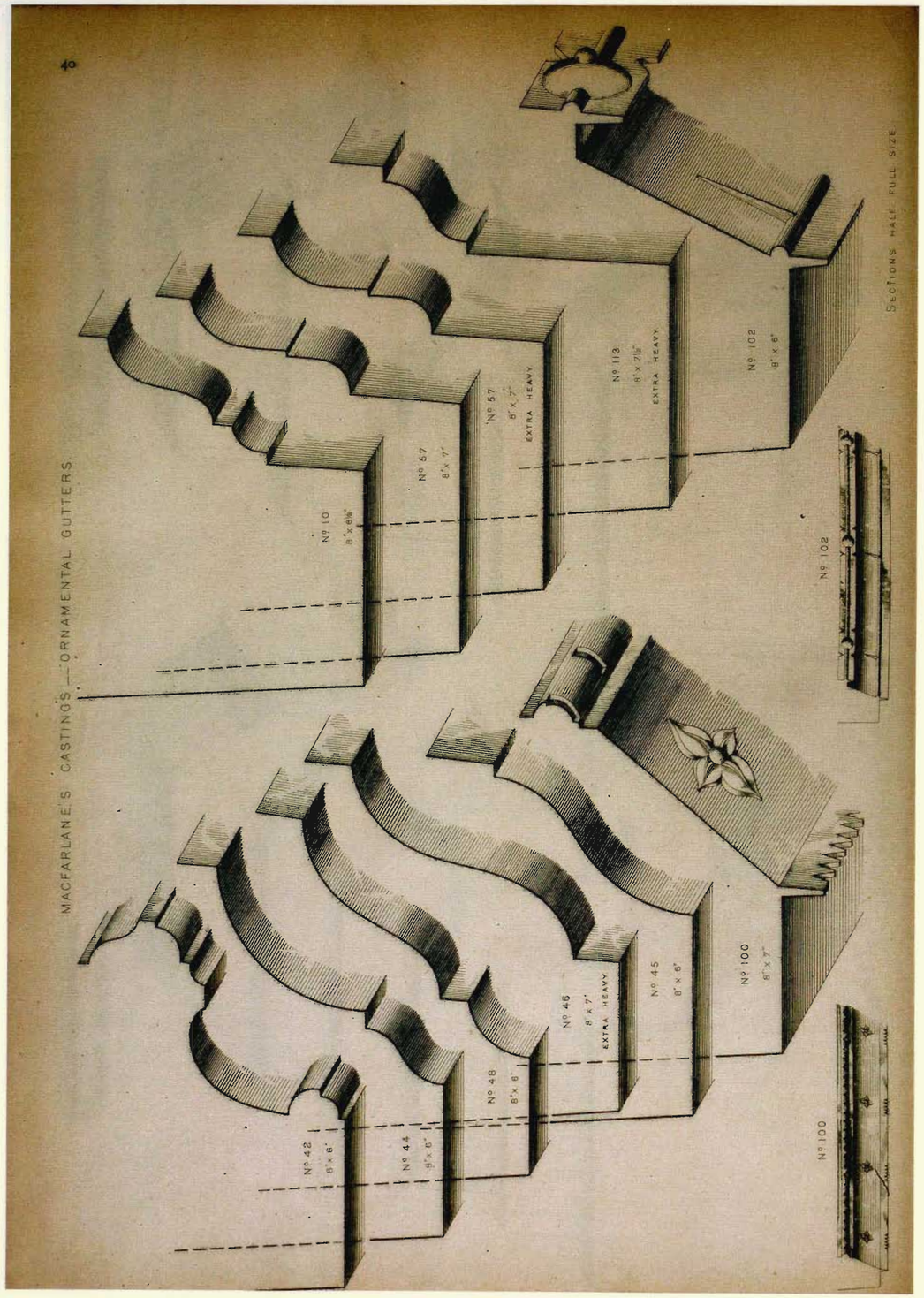

35
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.
SECTIONS HALF FULL SIZE.
No 93
No 10 7"x 7½" EXTRA HEAVY.
No 10 7"x 6½" EXTRA HEAVY.
No 28 7¼"x 2½"
No 23 7¼"x 3½"
No 97 7¼"x 4½"
No 11 7¼"x 6" EXTRA HEAVY.
No 93 7"x 5½"
No 10 7"x 6"
No 10 7"x 6" EXTRA HEAVY.
No 33 7"x 6"
No 38 7"x 6"
No 38 7"x 6½"
No 75 7"x 5"
No 75

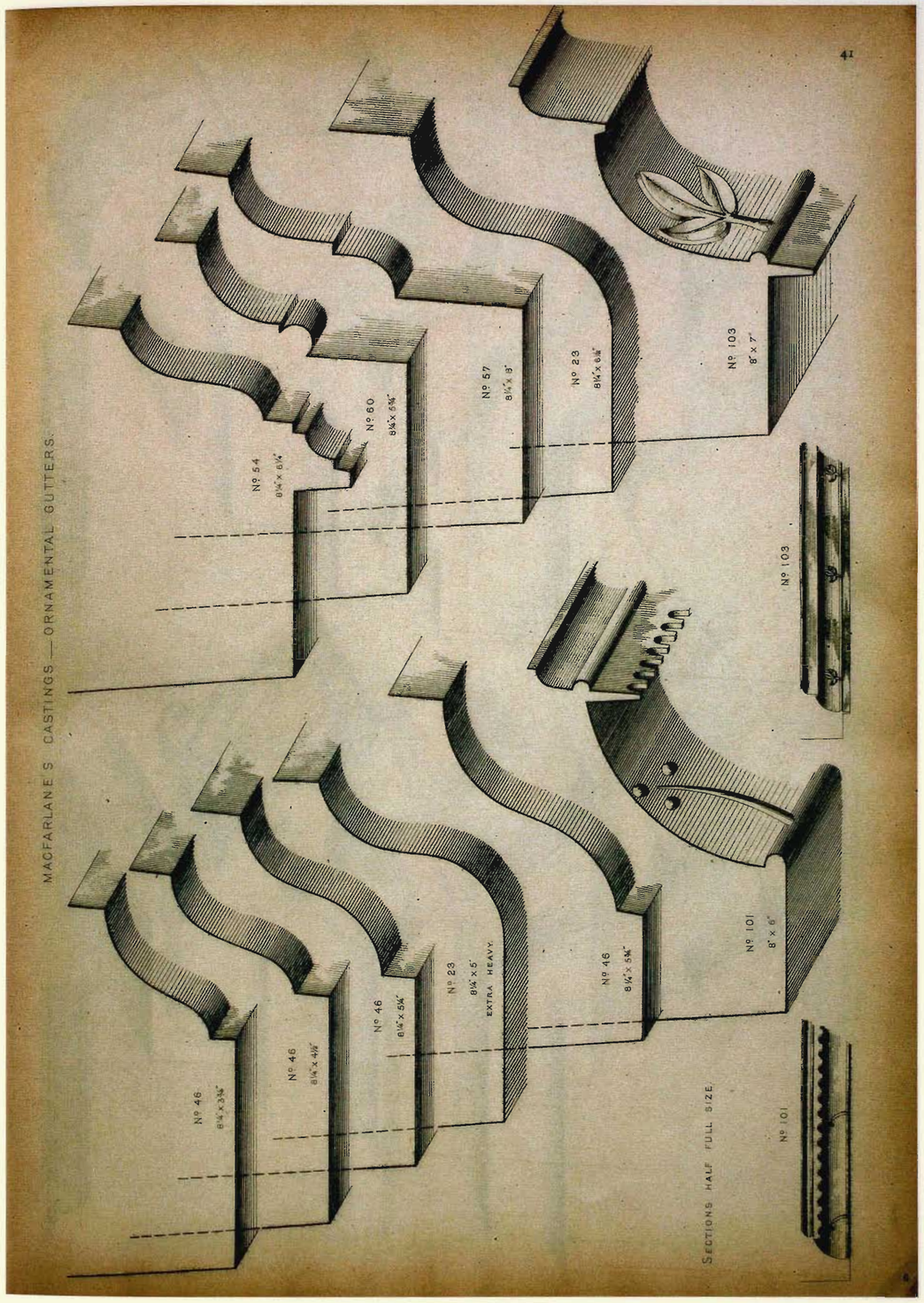

36
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.
Nº 10
Nº 23
Nº 46
Nº 46
Nº 48
Nº 60
Nº 88
Nº 12
Nº 12
Nº 41
Nº 48
Nº 13
Nº 105
Nº 105
SECTIONS HALF FULL SIZE

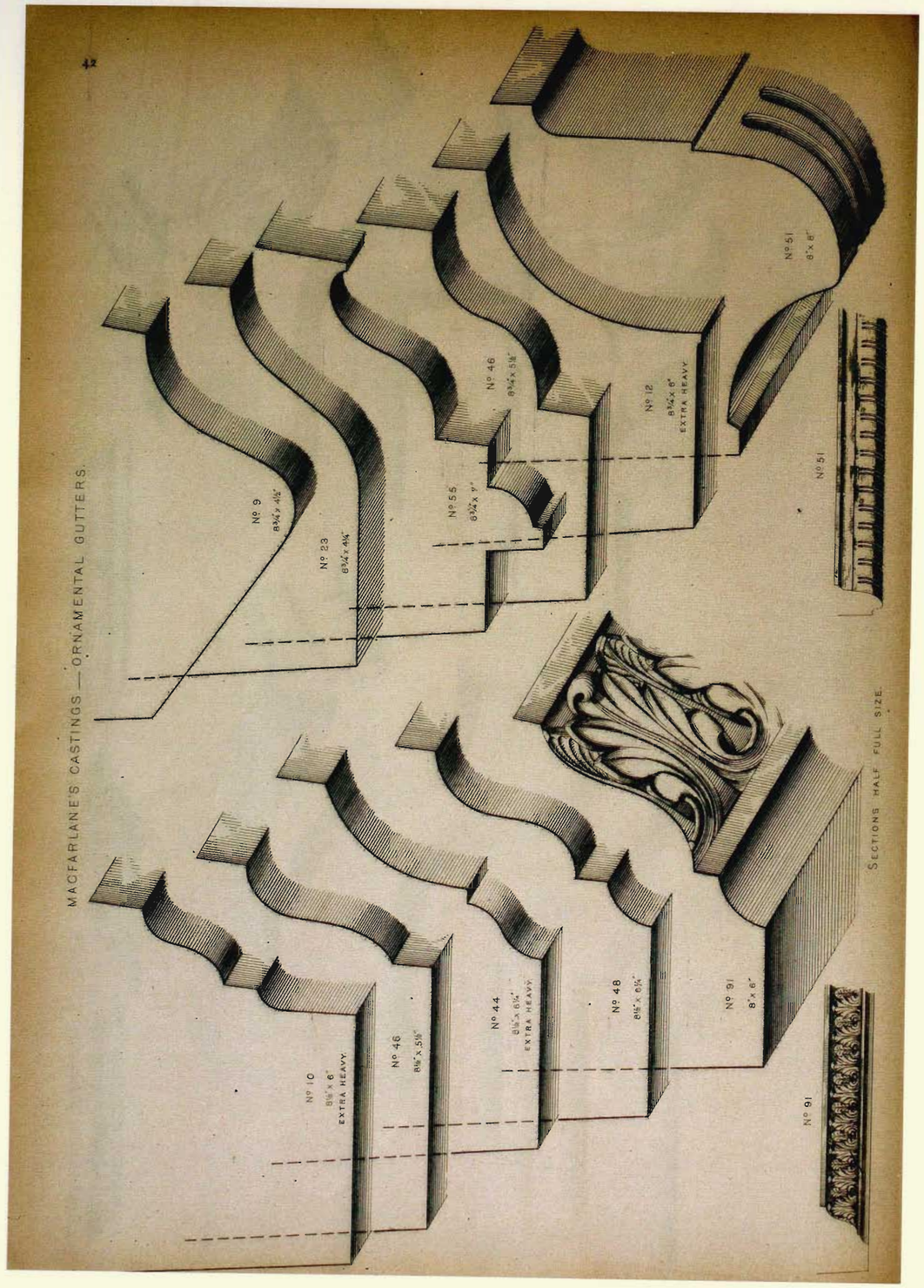

37
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.
Nº 12
Nº 38
Nº 33
Nº 23
Nº 51
Nº 51
Nº 46
Nº 12
Nº 60
Nº 23
Nº 10
Nº 70
Nº 70
SECTIONS HALF FULL SIZE

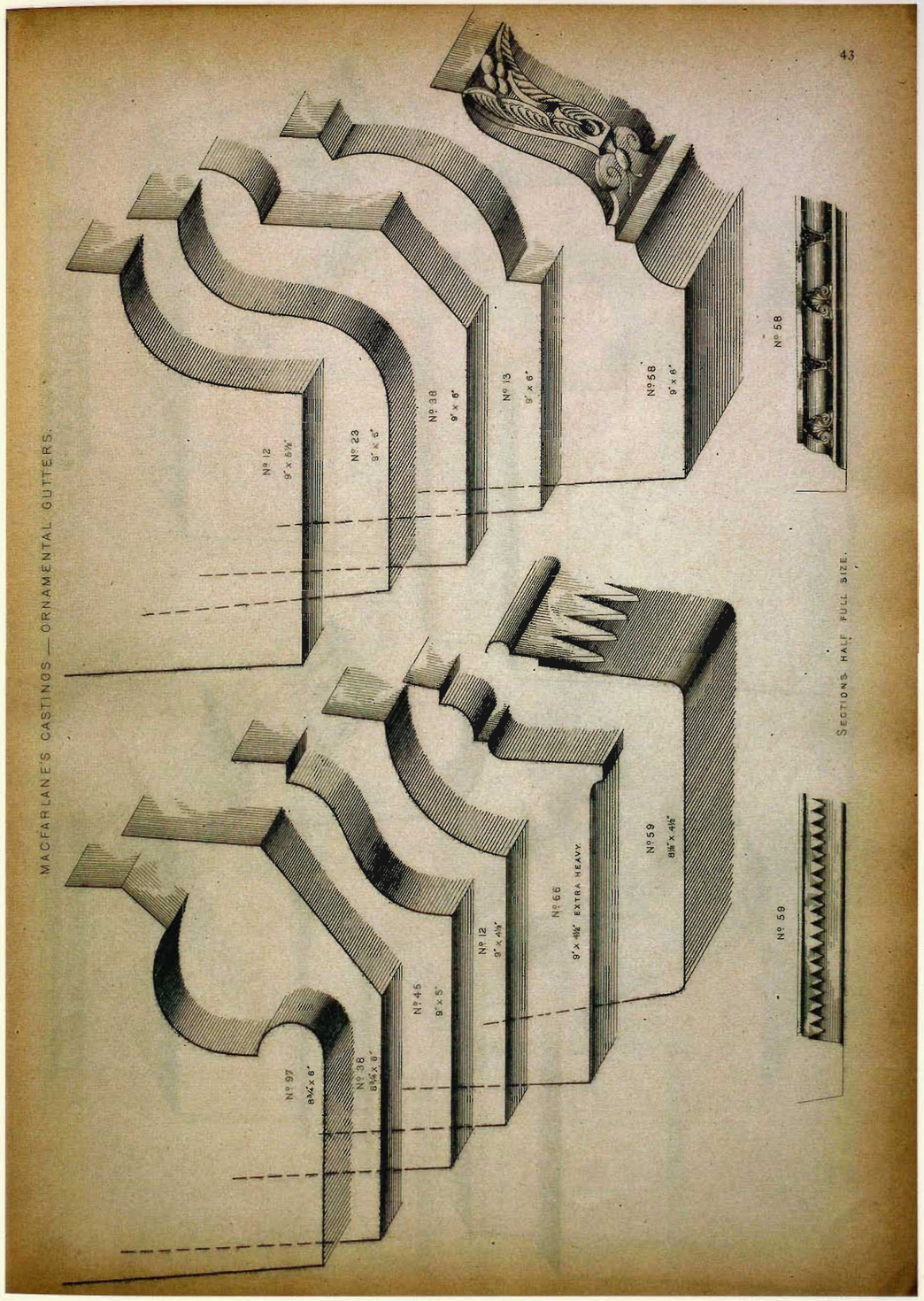

38
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.
No 66
No 23
6" x 5¾"
No 23
6" x 5¾"
EXTRA HEAVY.
No 13
6" x 5¾"
No 46
8" x 5¾"
No 8
8" x 6"
No 68
8" x 6"
No 40
8" x 6"
No 82
8" x 5"
No 45
8" x 6"
No 38
8" x 6¾"
No 57
8" x 5"
No 56
8" x 6"
No 56
SECTIONS, HALF FULL SIZE.

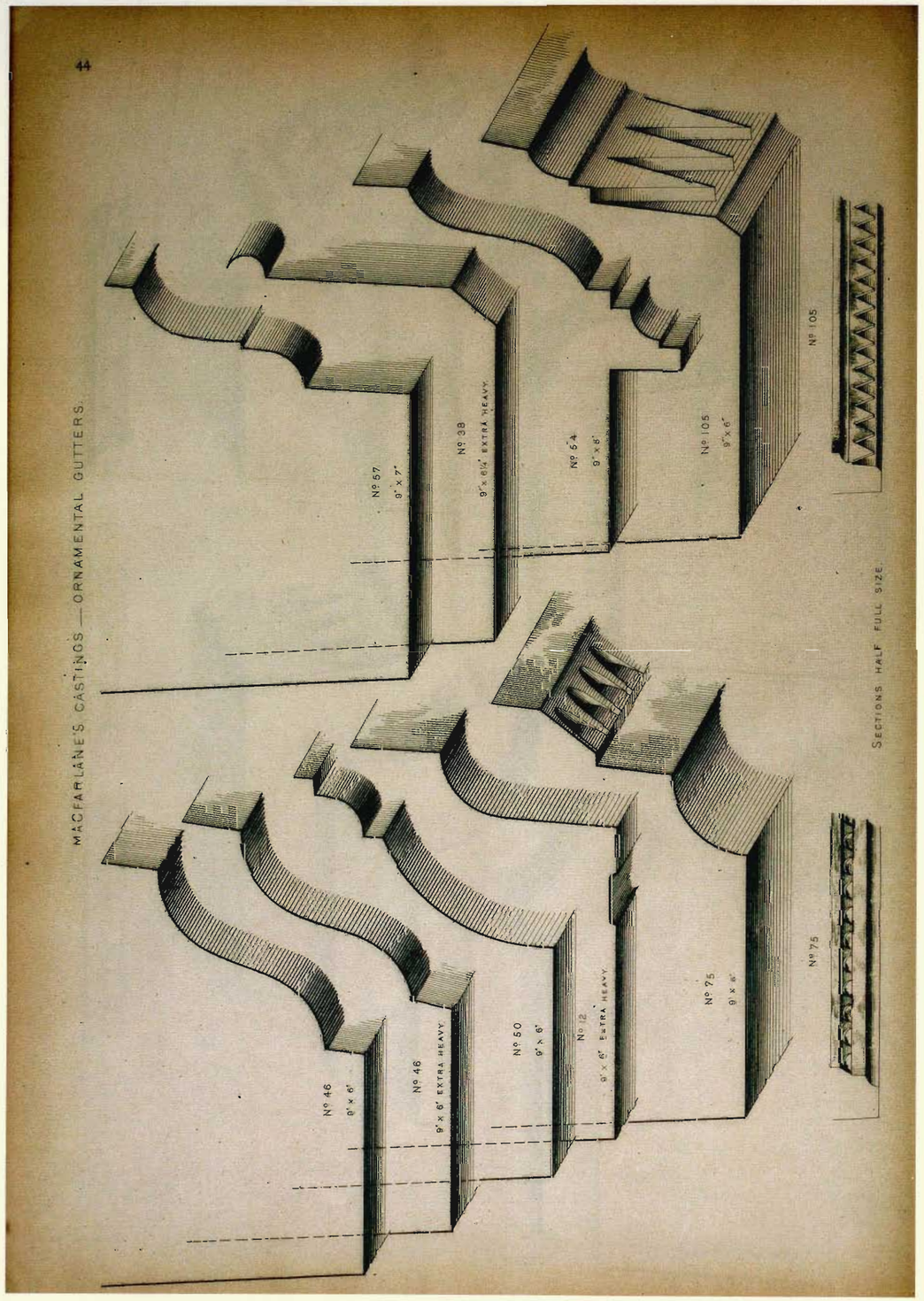

39
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.
No 12
8" x 6"
No 38
8" x 6"
No 37
8" x 6"
No 16
8" x 6"
No 70
8" x 6"
No 70
No 10
8" x 6"
EXTRA HEAVY
No 11
8" x 6"
No 49
8" x 6"
No 49
8" x 6" EXTRA HEAVY
No 72
8" x 6"
No 78
SECTIONS, HALF FULL SIZE.

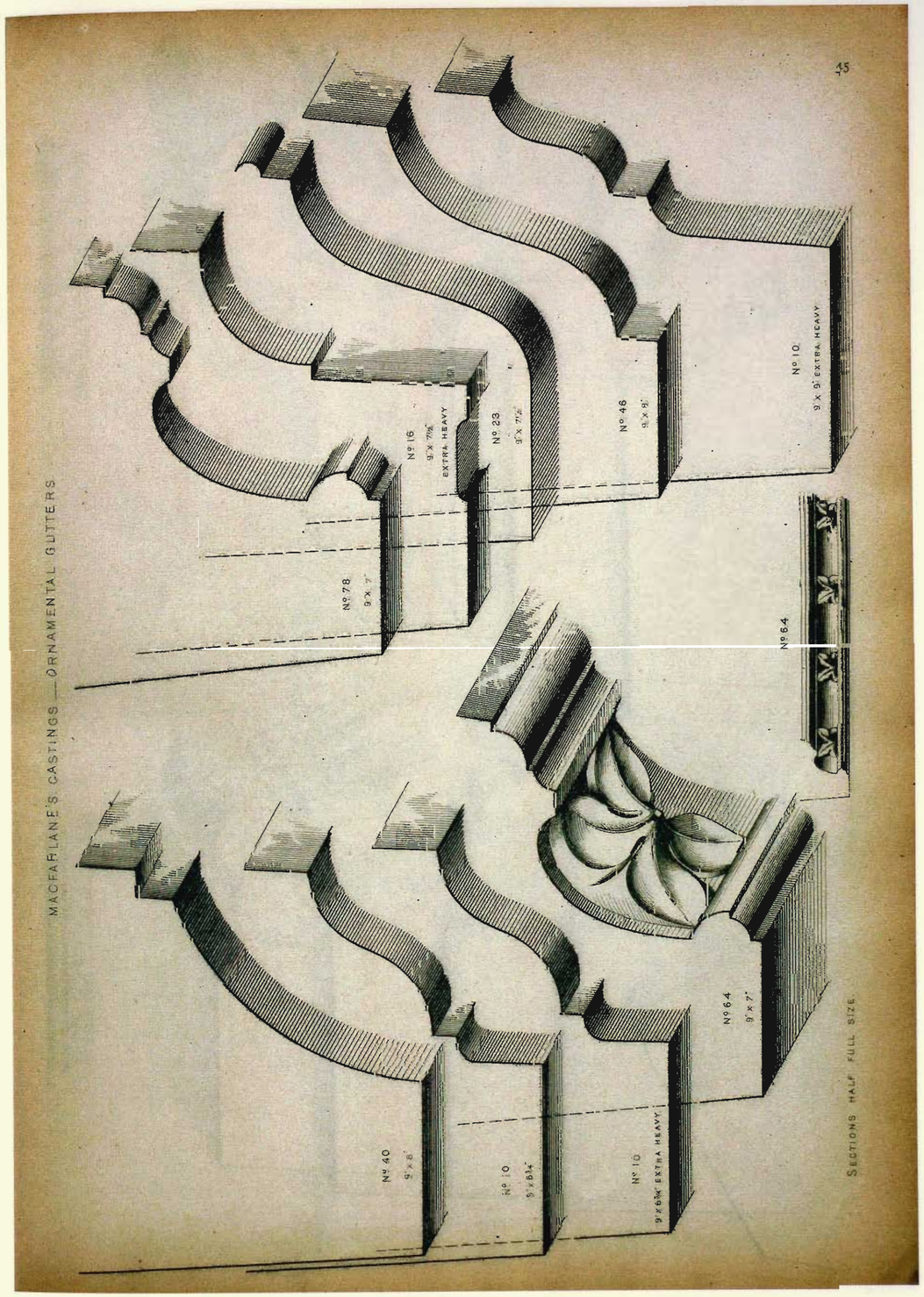

40
MACFARLANE'S CASTINGS.—ORNAMENTAL GUTTERS.
SECTIONS HALF FULL SIZE
No 10 8"x 8½"
No 57 8"x 7"
No 57 8"x 7" EXTRA HEAVY
No 113 8"x 7½" EXTRA HEAVY
No 102 8"x 6"
No 102
No 42 8"x 6"
No 44 8"x 6"
No 48 8"x 6"
No 46 8"x 7" EXTRA HEAVY
No 45 8"x 6"
No 100 8"x 7"
No 100

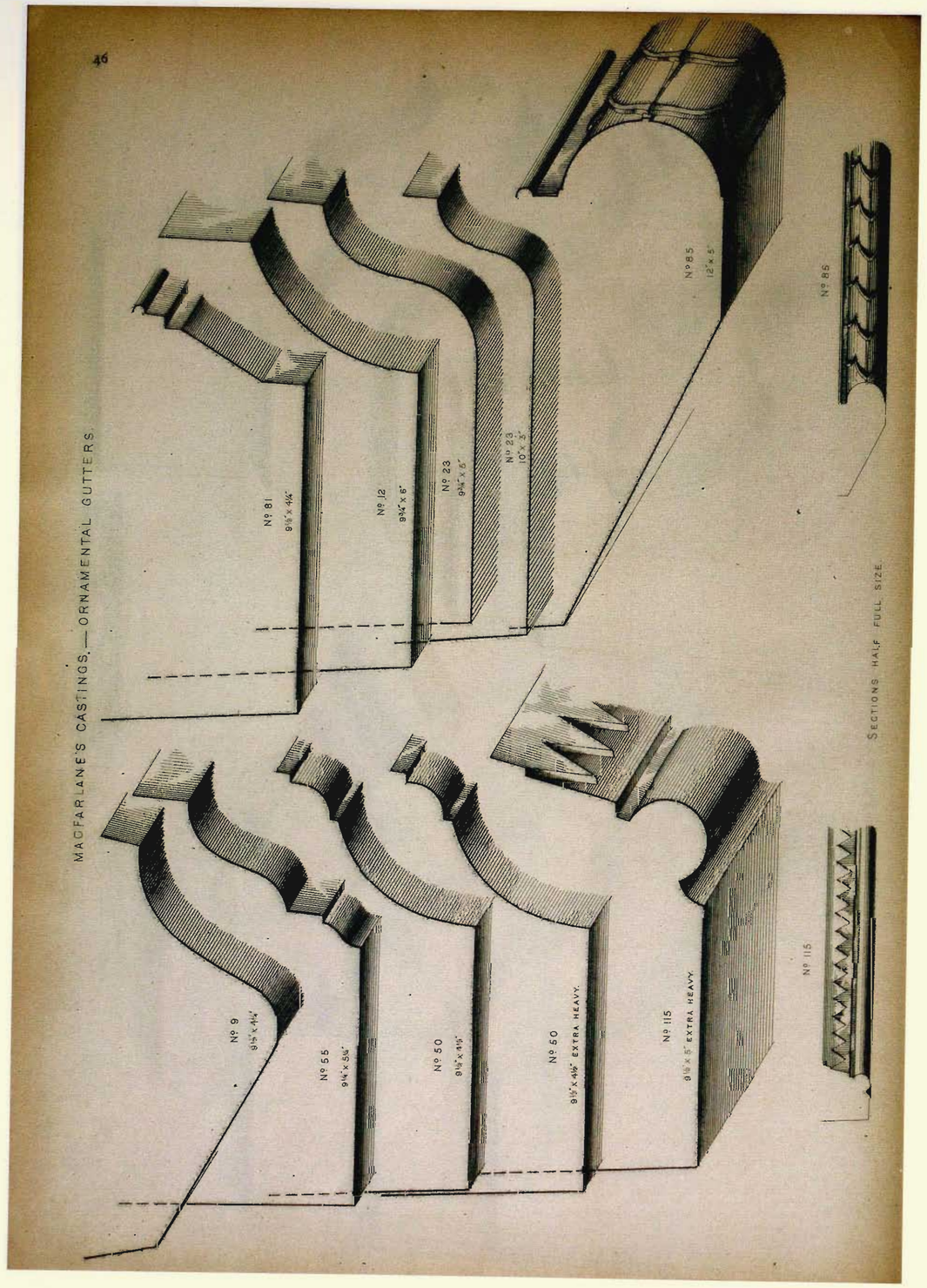

41
MACFARLANE'S CASTINGS.—ORNAMENTAL GUTTERS.
SECTIONS HALF FULL SIZE
No 54 8¼"x 6¼"
No 60 8¼"x 5¾"
No 57 8¼"x 8"
No 23 8¼"x 6¾"
No 103 8"x 7"
No 103
No 46 8¼"x 3¾"
No 46 8¼"x 4½"
No 46 8¼"x 5¼"
No 23 8¼"x 5" EXTRA HEAVY
No 46 8¼"x 5¾"
No 101 8"x 9"
No 101

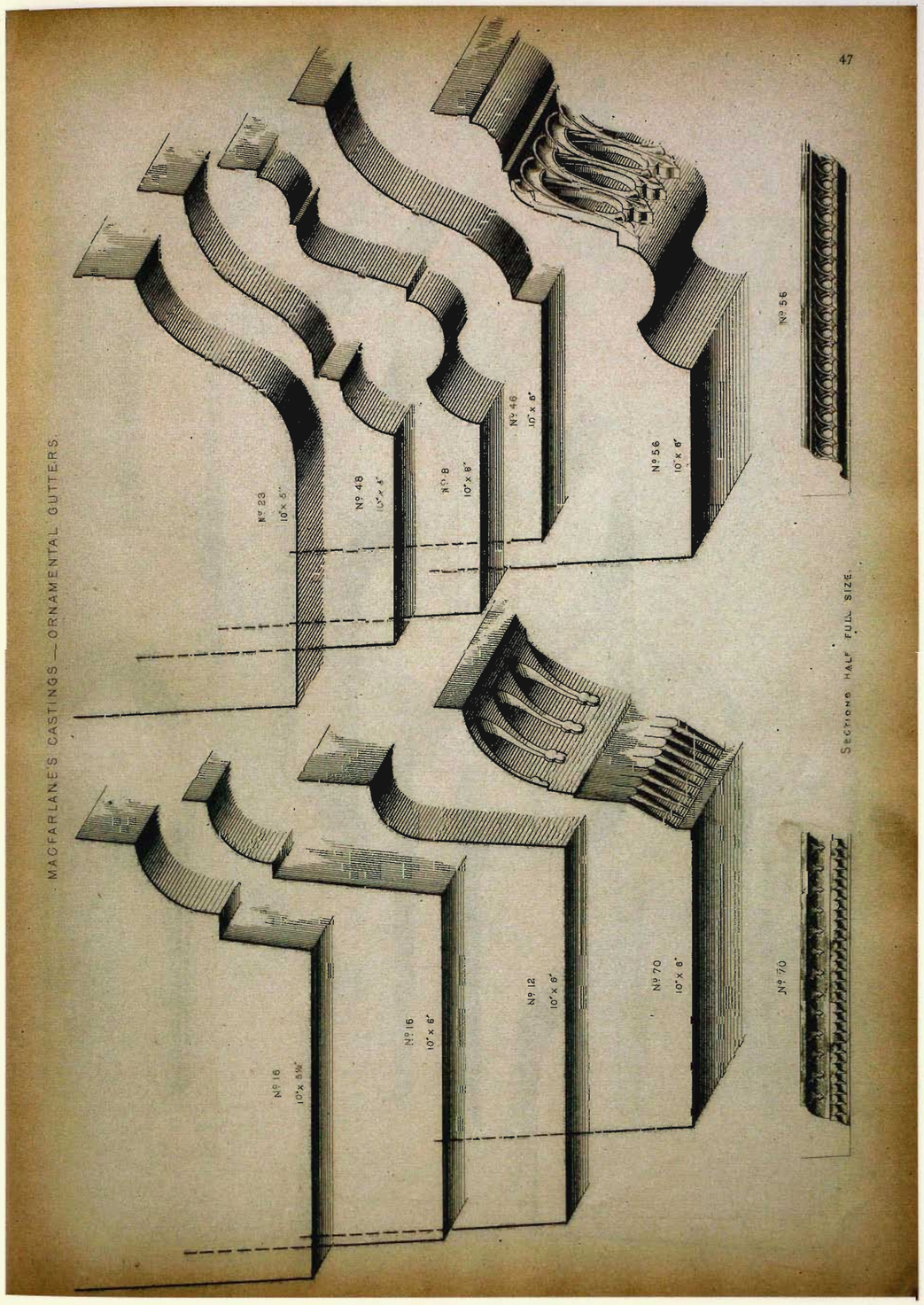

42
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.
Nº 9
8¾ x 4½"
Nº 23
8¾ x 4¼"
Nº 55
6¾ x 7"
Nº 46
8¾ x 5½"
Nº 12
8¾ x 6"
EXTRA HEAVY
Nº 51
8" x 8"
Nº 51
Nº 10
8½ x 6"
EXTRA HEAVY.
Nº 46
8½ x 5½"
Nº 44
8½ x 6¼"
EXTRA HEAVY.
Nº 48
8½ x 6¼"
Nº 91
8" x 6"
Nº 91
SECTIONS HALF FULL SIZE.

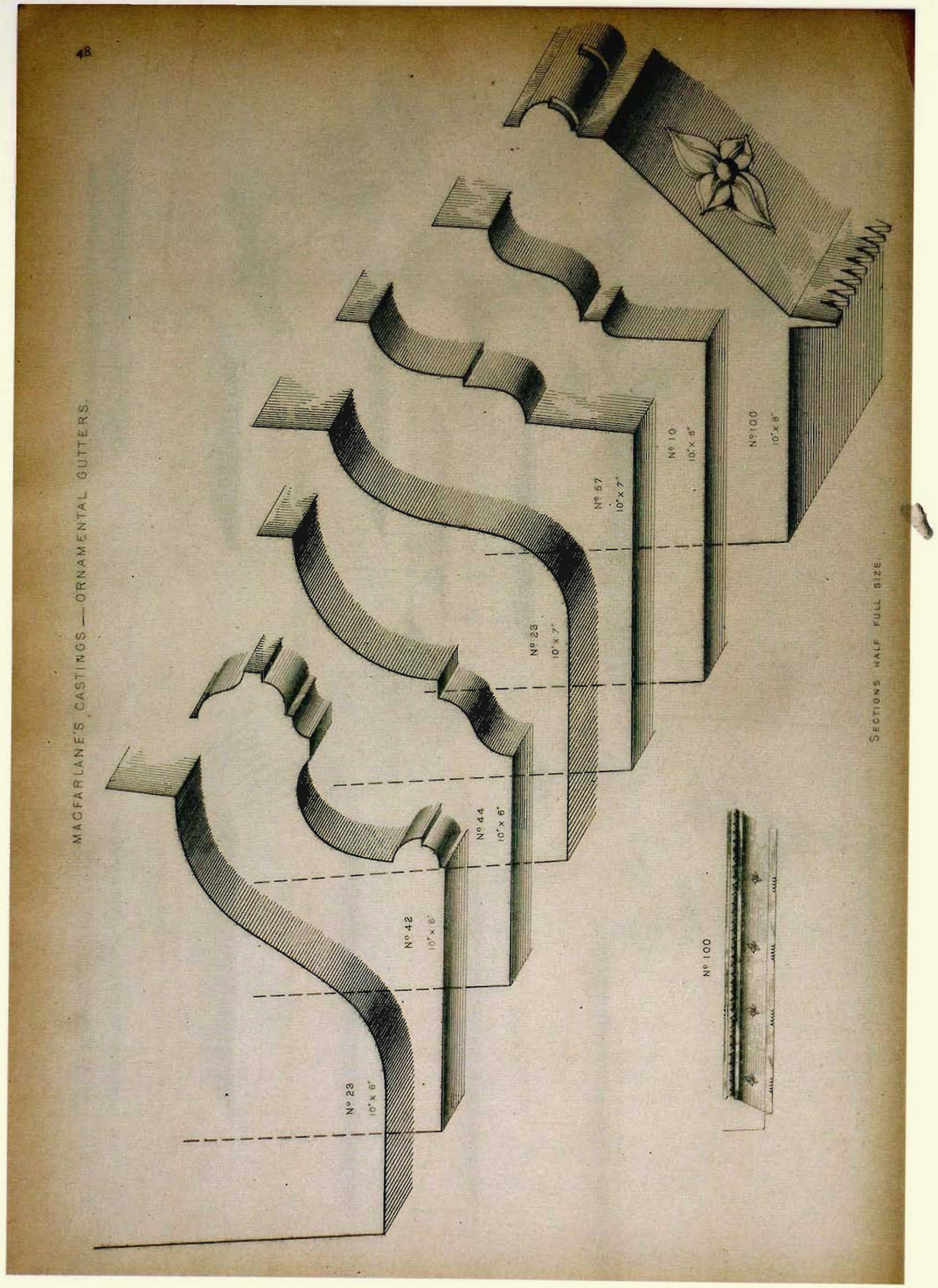

43
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.
Nº 12
9" x 6½"
Nº 23
9" x 6"
Nº 38
9" x 6"
Nº 13
9" x 6"
Nº 58
9" x 6"
Nº 58
Nº 97
8¾ x 6"
Nº 38
8¾ x 6"
Nº 45
9" x 5"
Nº 12
9" x 4½"
Nº 66
9" x 4½" EXTRA HEAVY.
Nº 59
8½ x 4½"
Nº 59
SECTIONS HALF FULL SIZE.

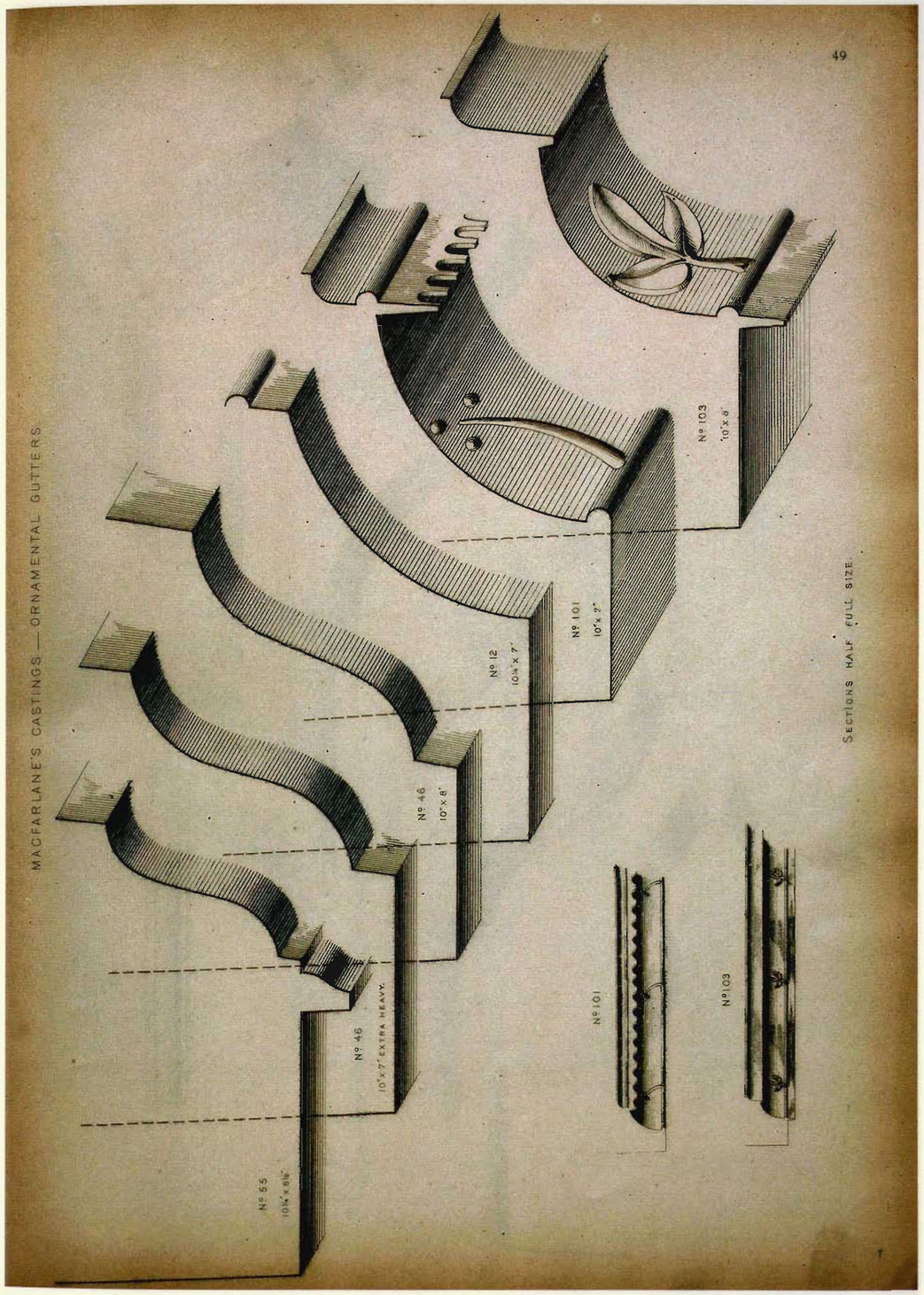

44
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.
Nº 67
9" x 7"
Nº 38
9" x 6½" EXTRA HEAVY
Nº 64
9" x 8"
Nº 105
9" x 6"
Nº 105
Nº 46
9" x 6"
Nº 46
9" x 6" EXTRA HEAVY
Nº 50
9" x 6"
Nº 12
9" x 6" EXTRA HEAVY
Nº 75
9" x 6"
Nº 75
SECTIONS HALF FULL SIZE.

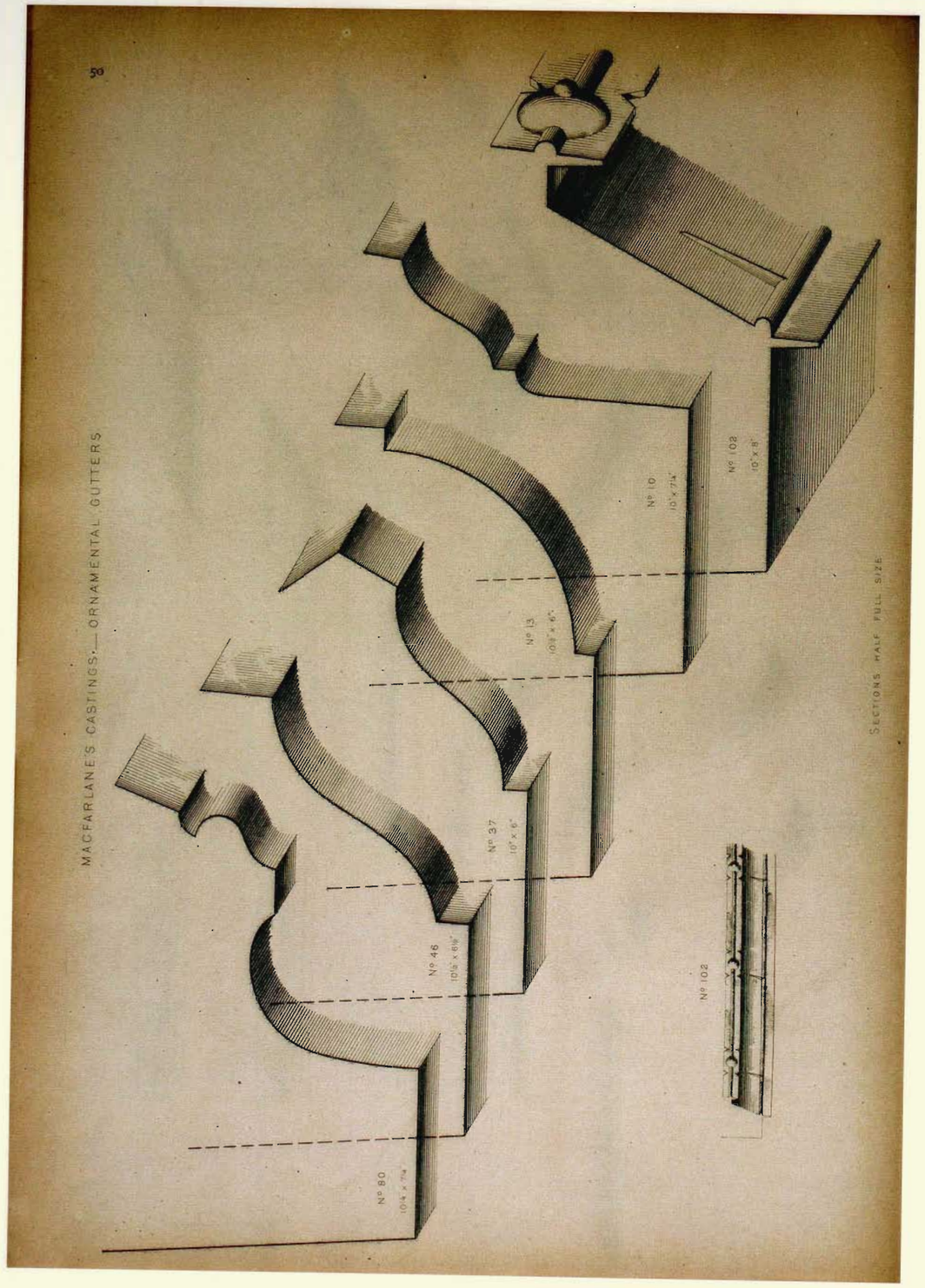

45
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.
Nº 78
9" x 7"
Nº 16
9" x 7½"
EXTRA HEAVY
Nº 23
9" x 7½"
Nº 46
9" x 9"
Nº 10
9" x 9" EXTRA HEAVY
Nº 64
Nº 40
9" x 8"
Nº 10
9" x 8½"
Nº 10
9" x 8½" EXTRA HEAVY
Nº 64
9" x 7"
SECTIONS HALF FULL SIZE.

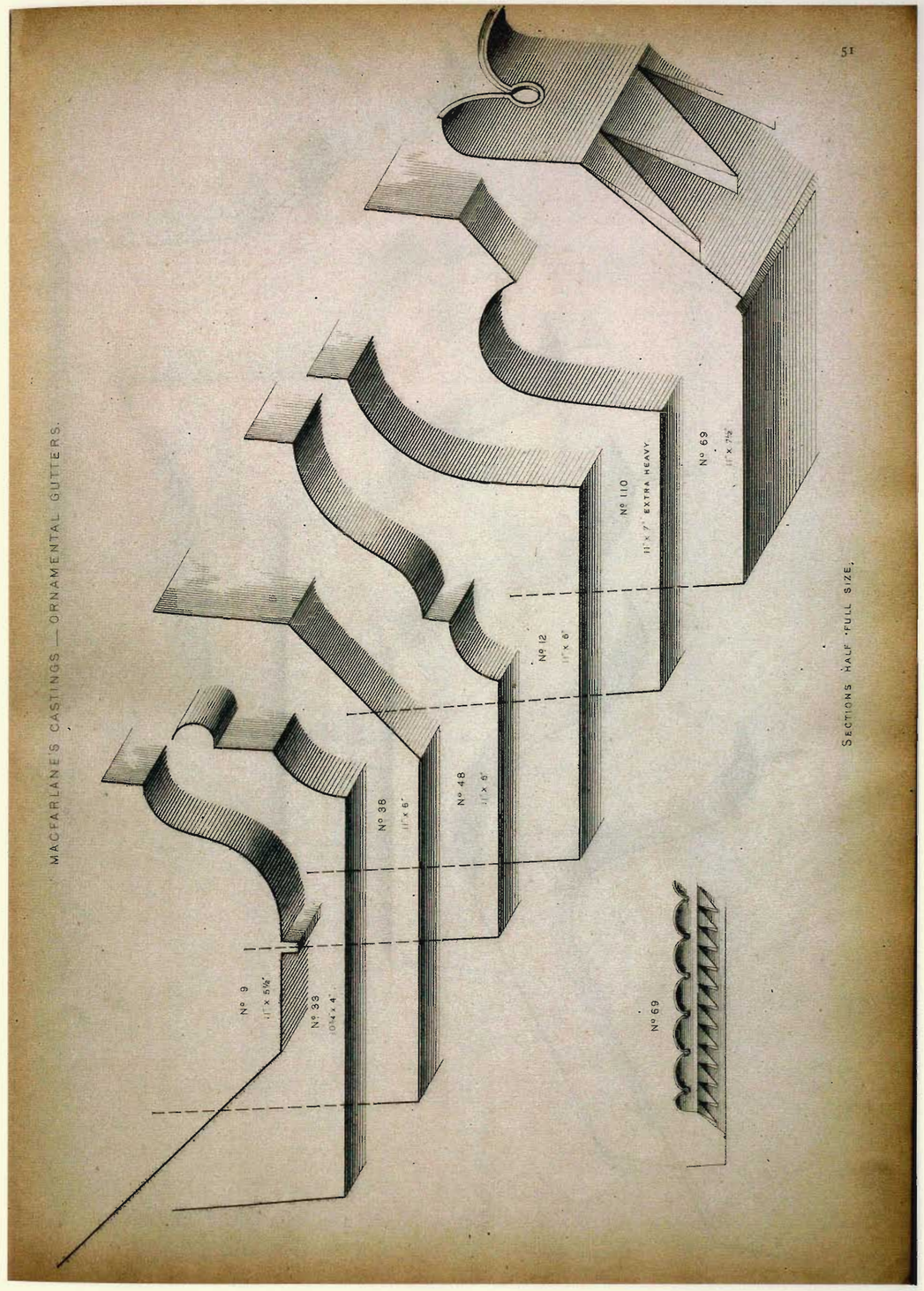

46
MACFARLANE'S CASTINGS.—ORNAMENTAL GUTTERS.
No 81
9½" x 4¼"
No 12
9¾" x 8"
No 23
9¾" x 6"
No 23
10" x 8"
No 85
12" x 5"
No 86
No 9
9½" x 4¼"
No 55
9¾" x 5¾"
No 50
9½" x 4½"
No 50
9½" x 4½" EXTRA HEAVY.
No 115
9½" x 5" EXTRA HEAVY.
No 115
SECTIONS HALF FULL SIZE.

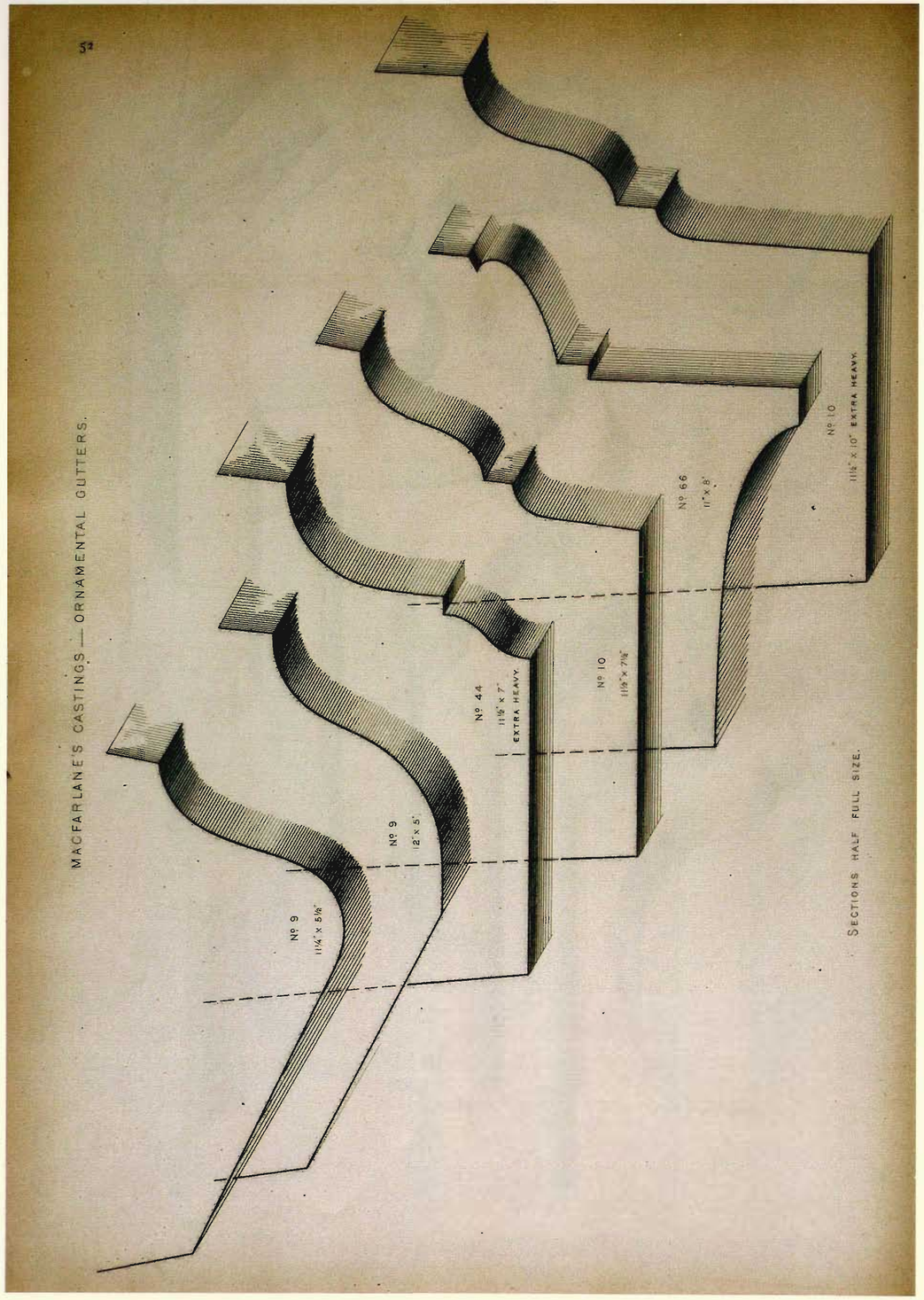

47
MACFARLANE'S CASTINGS.—ORNAMENTAL GUTTERS.
No 23
10" x 8"
No 48
10" x 8"
No 8
10" x 8"
No 46
10" x 8"
No 56
10" x 8"
No 56
No 16
10" x 5¼"
No 16
10" x 8"
No 12
10" x 8"
No 70
10" x 8"
No 70
SECTIONS HALF FULL SIZE.

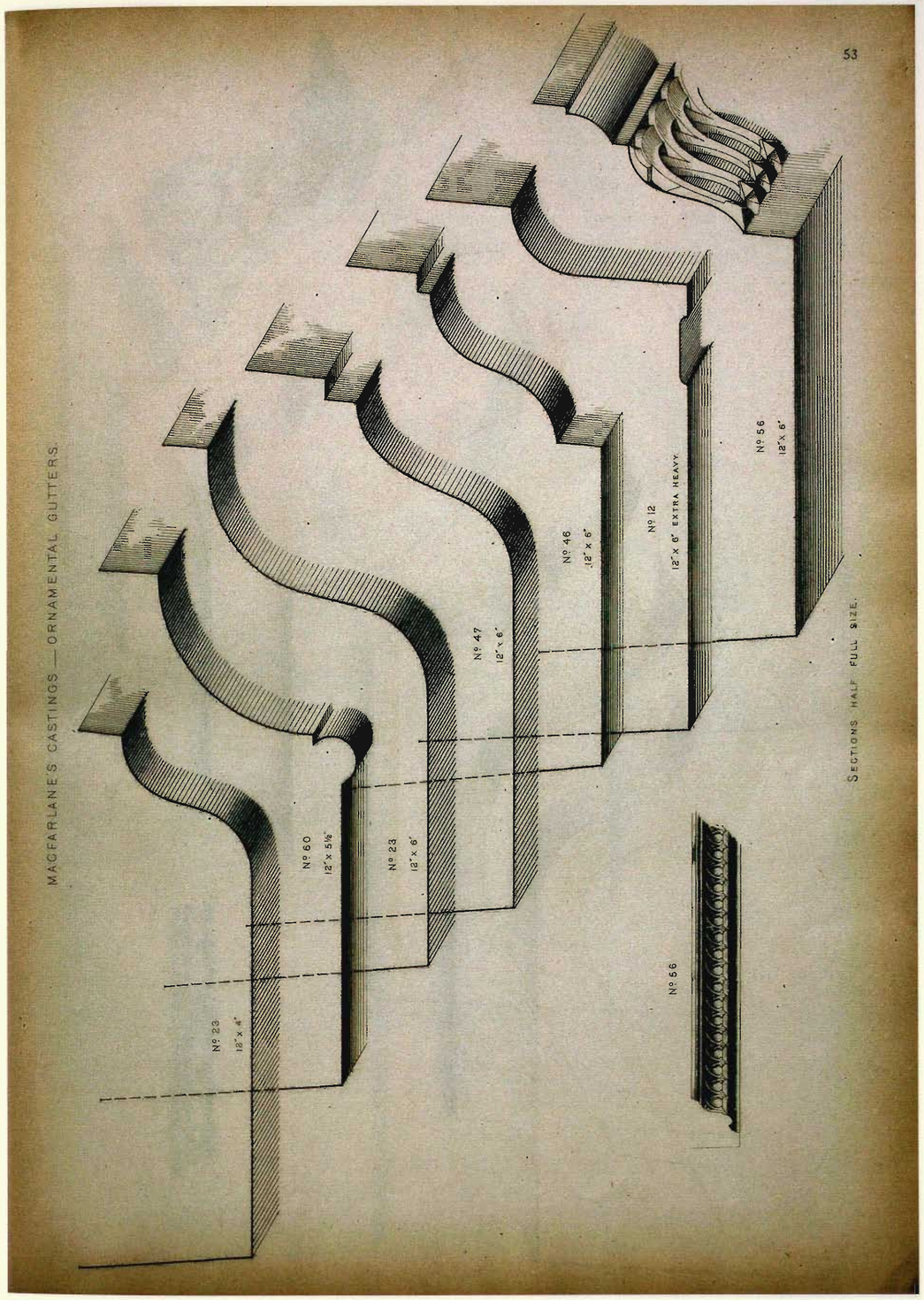

48
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.
Nº 23 10" x 6"
Nº 42 10" x 6"
Nº 44 10" x 6"
Nº 67 10" x 7"
Nº 10 10" x 6"
Nº 100 10" x 6"
Nº 100
SECTIONS HALF FULL SIZE.

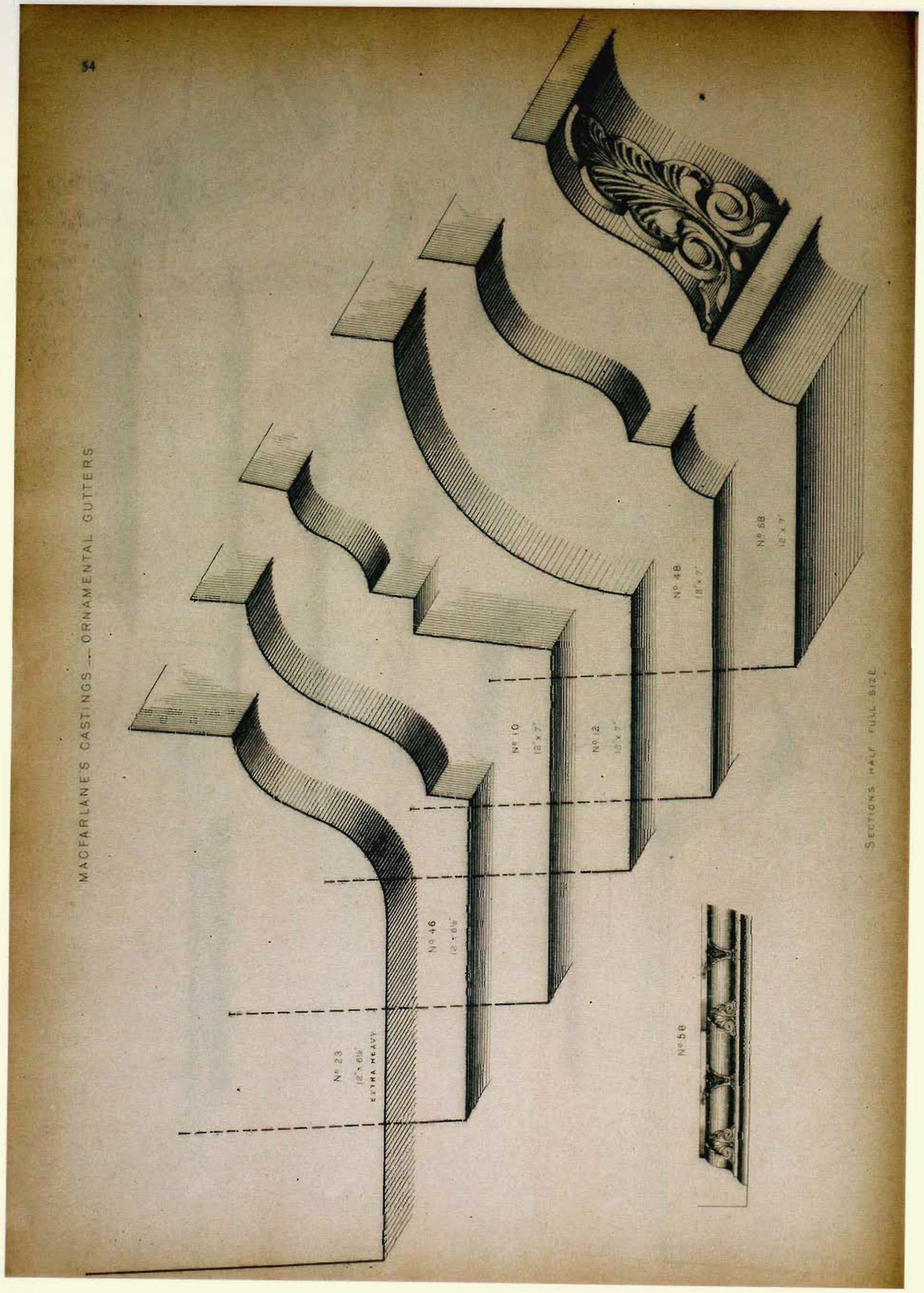

49
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.
Nº 55 10¼" x 8½"
Nº 46 10" x 7" EXTRA HEAVY.
Nº 46 10" x 8"
Nº 12 10¼" x 7"
Nº 101 10" x 7"
Nº 103 10" x 8"
Nº 101
Nº 103
SECTIONS HALF FULL SIZE.

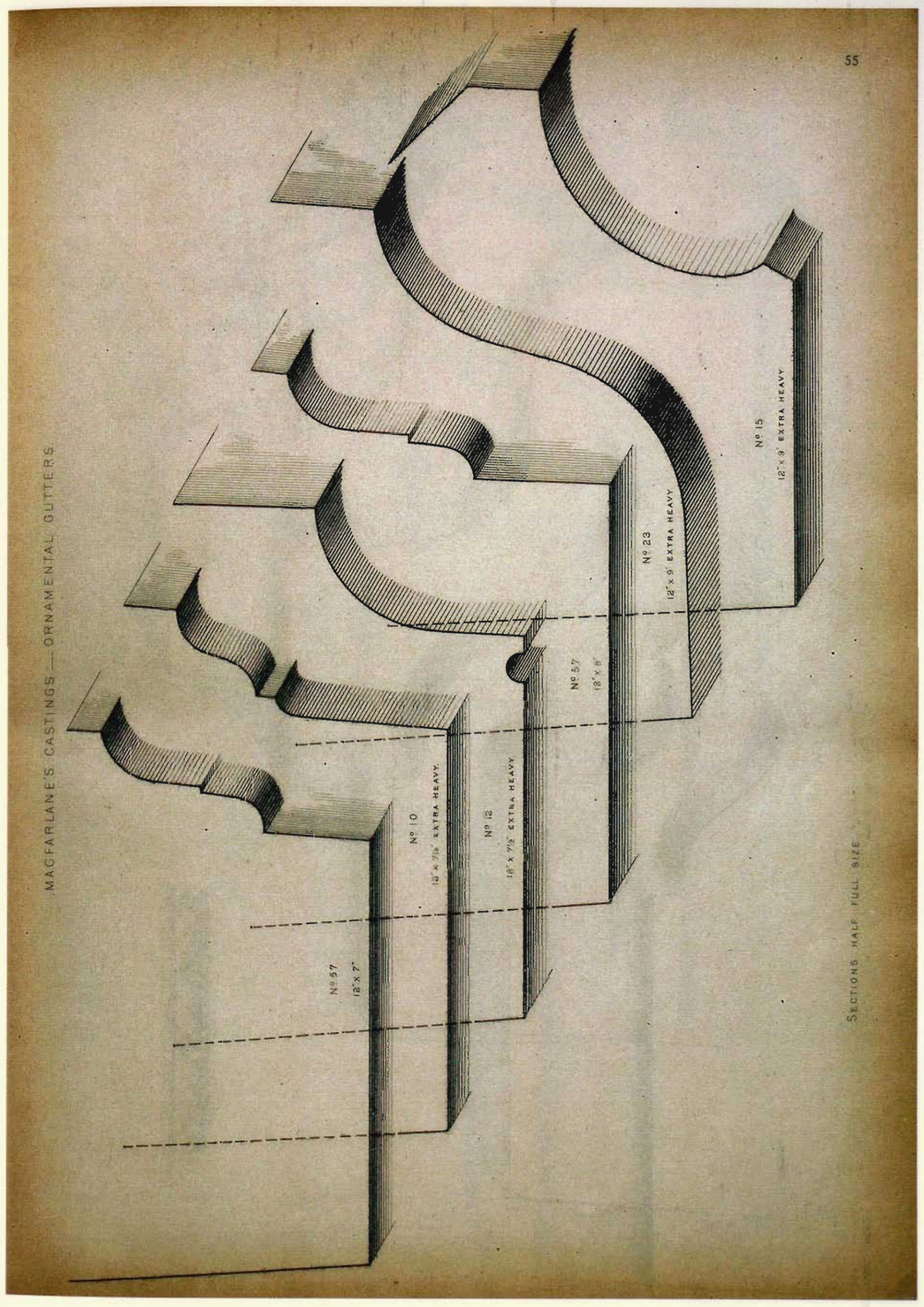

MACFARLANE'S CASTINGS.—ORNAMENTAL GUTTERS.
SECTIONS HALF FULL SIZE.
No 80
No 46
No 37
No 13
No 10
No 102
No 102

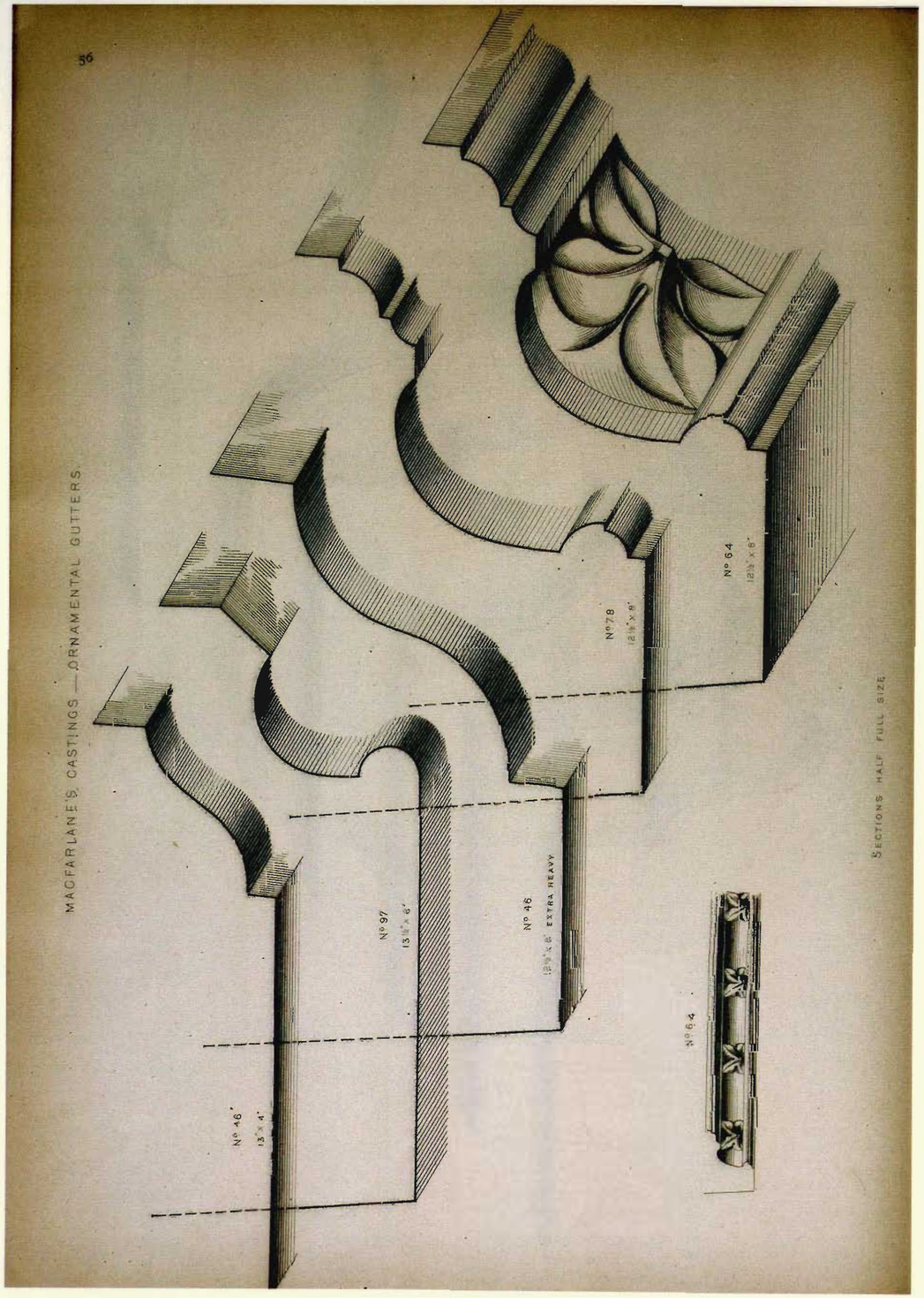

MACFARLANE'S CASTINGS.—ORNAMENTAL GUTTERS.
SECTIONS HALF FULL SIZE.
No 9
No 33
No 38
No 48
No 12
No 110
No 69
No 69

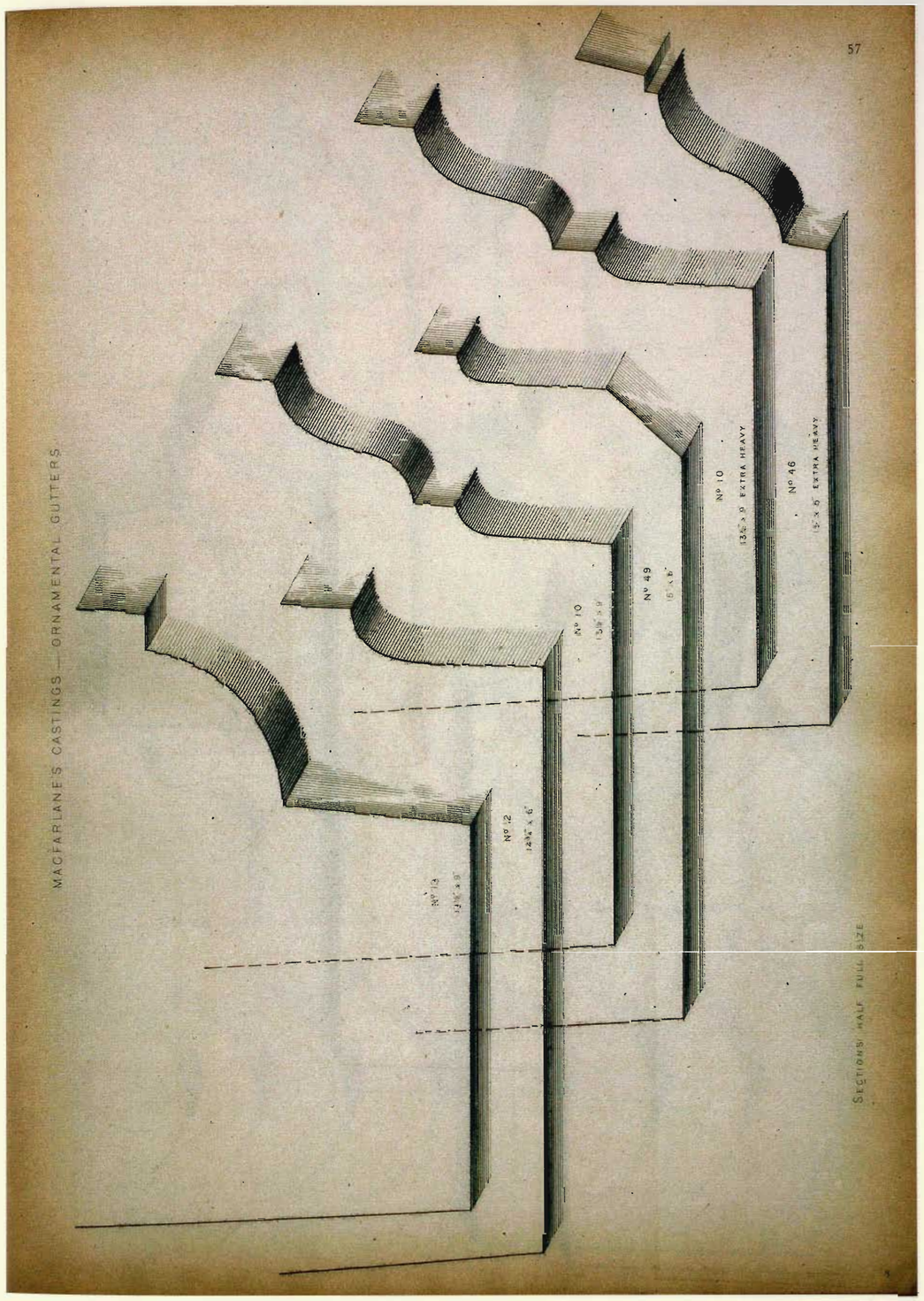

52
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.
Nº 44
11½" x 7"
EXTRA HEAVY.
Nº 10
11½" x 7½"
Nº 66
11" x 8"
Nº 10
11½" x 10" EXTRA HEAVY.
Nº 9
12" x 5"
Nº 9
11¼" x 5⅛"
SECTIONS HALF FULL SIZE.

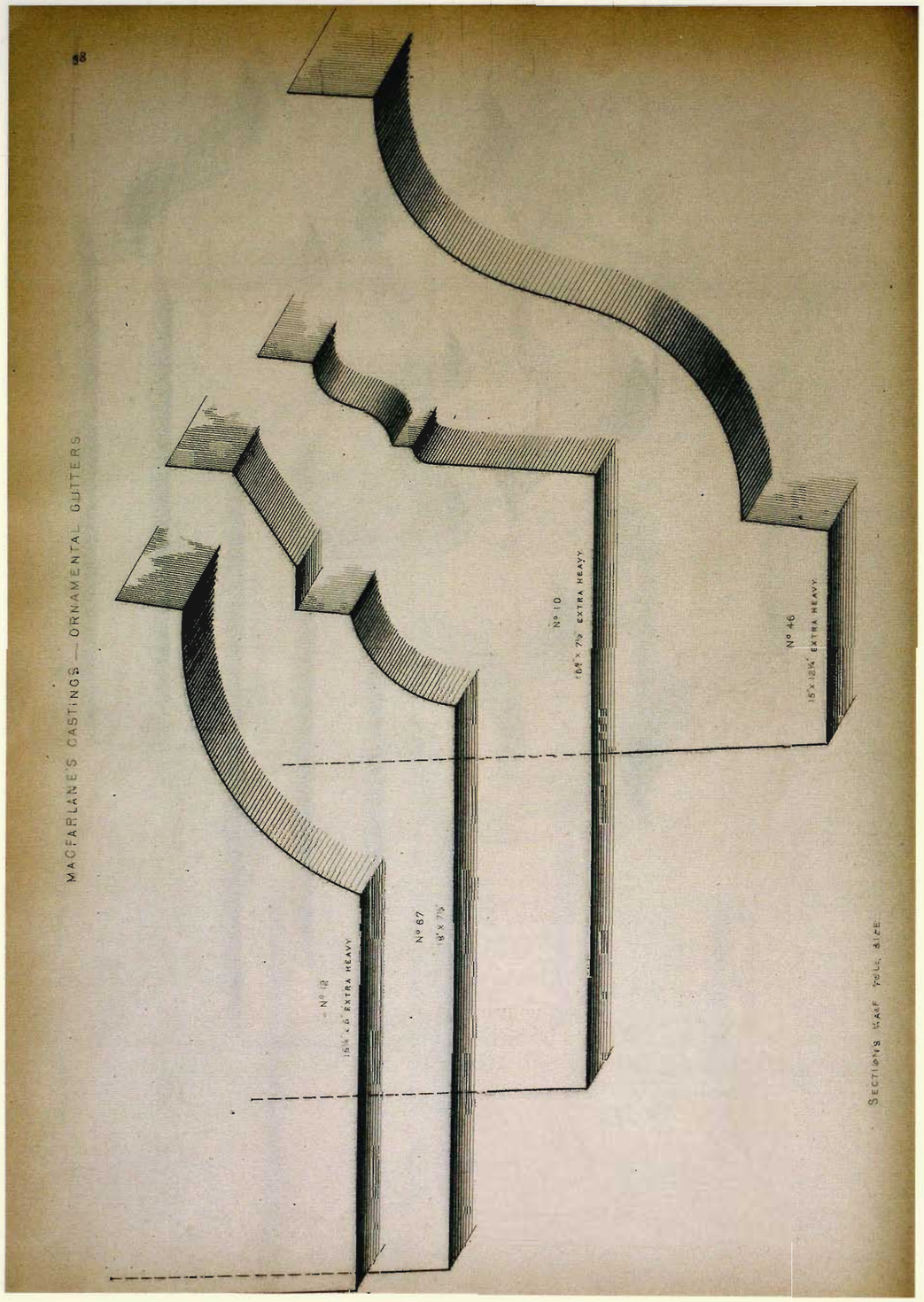

53
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.
Nº 47
12" x 6"
Nº 46
12" x 6"
Nº 12
12" x 6" EXTRA HEAVY.
Nº 56
12" x 6"
Nº 60
12" x 5⅛"
Nº 23
12" x 6"
Nº 23
12" x 4"
Nº 66
SECTIONS HALF FULL SIZE.

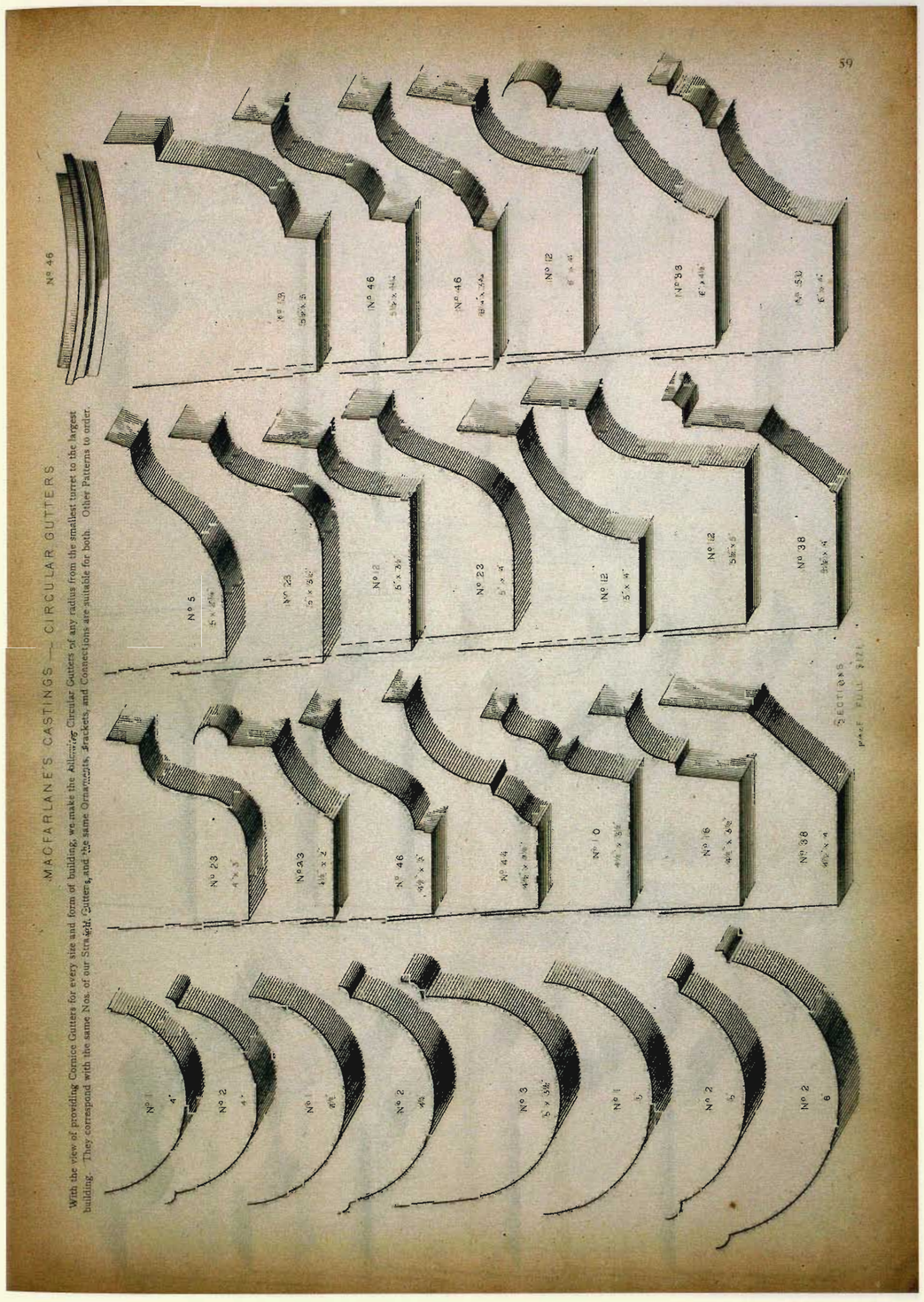

54
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.
No 48
18" x 7"
No 58
18" x 7"
No 10
18" x 7"
No 12
18" x 7"
No 46
18" x 6½"
No 23
18" x 6½"
EXTRA HEAVY
No 58
SECTIONS HALF FULL SIZE

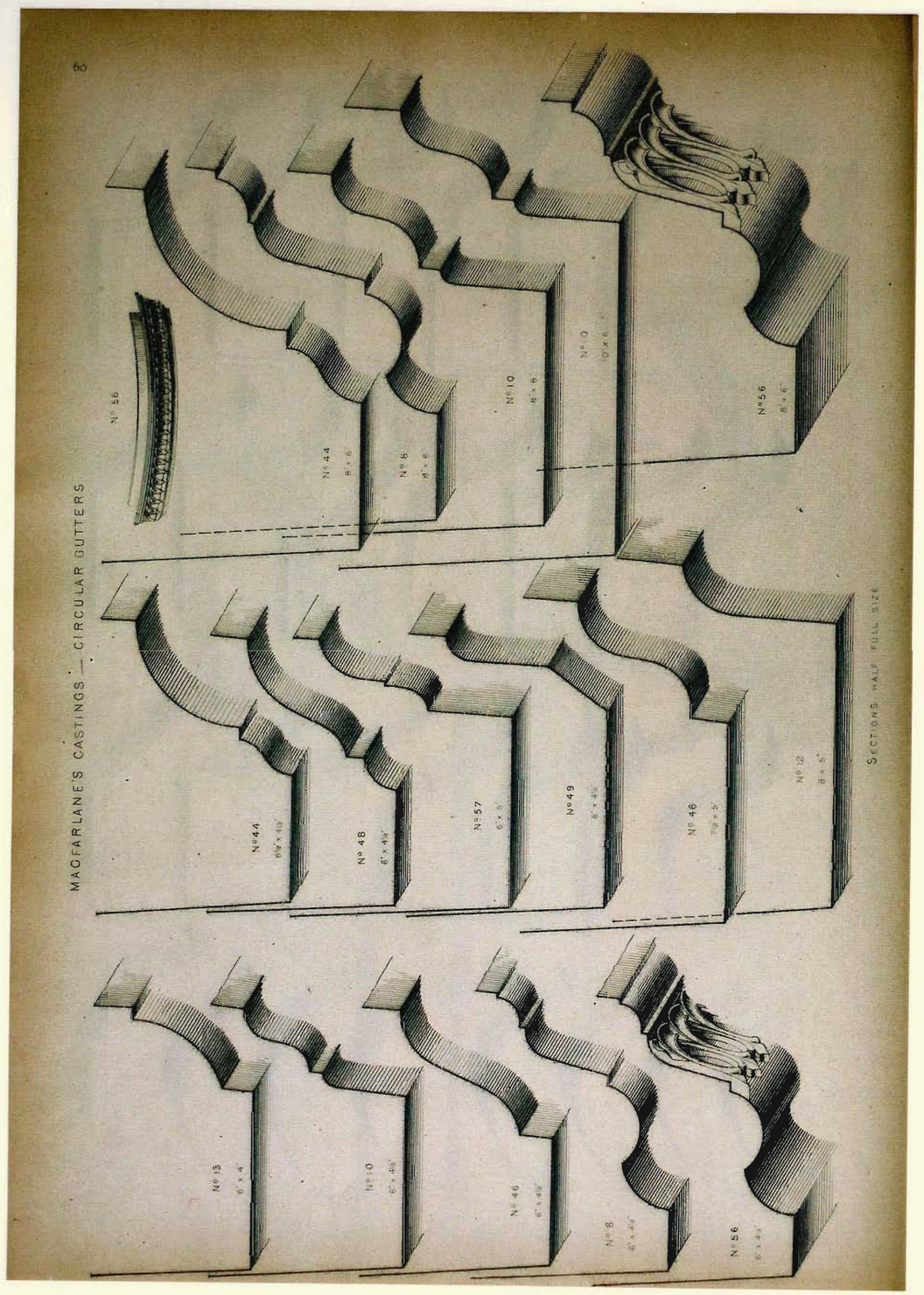

55
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.
No 15
12" x 9" EXTRA HEAVY
No 23
12" x 9" EXTRA HEAVY
No 57
18" x 8"
No 10
18" x 7½" EXTRA HEAVY.
No 12
18" x 7½" EXTRA HEAVY.
No 57
12" x 7"
SECTIONS HALF FULL SIZE

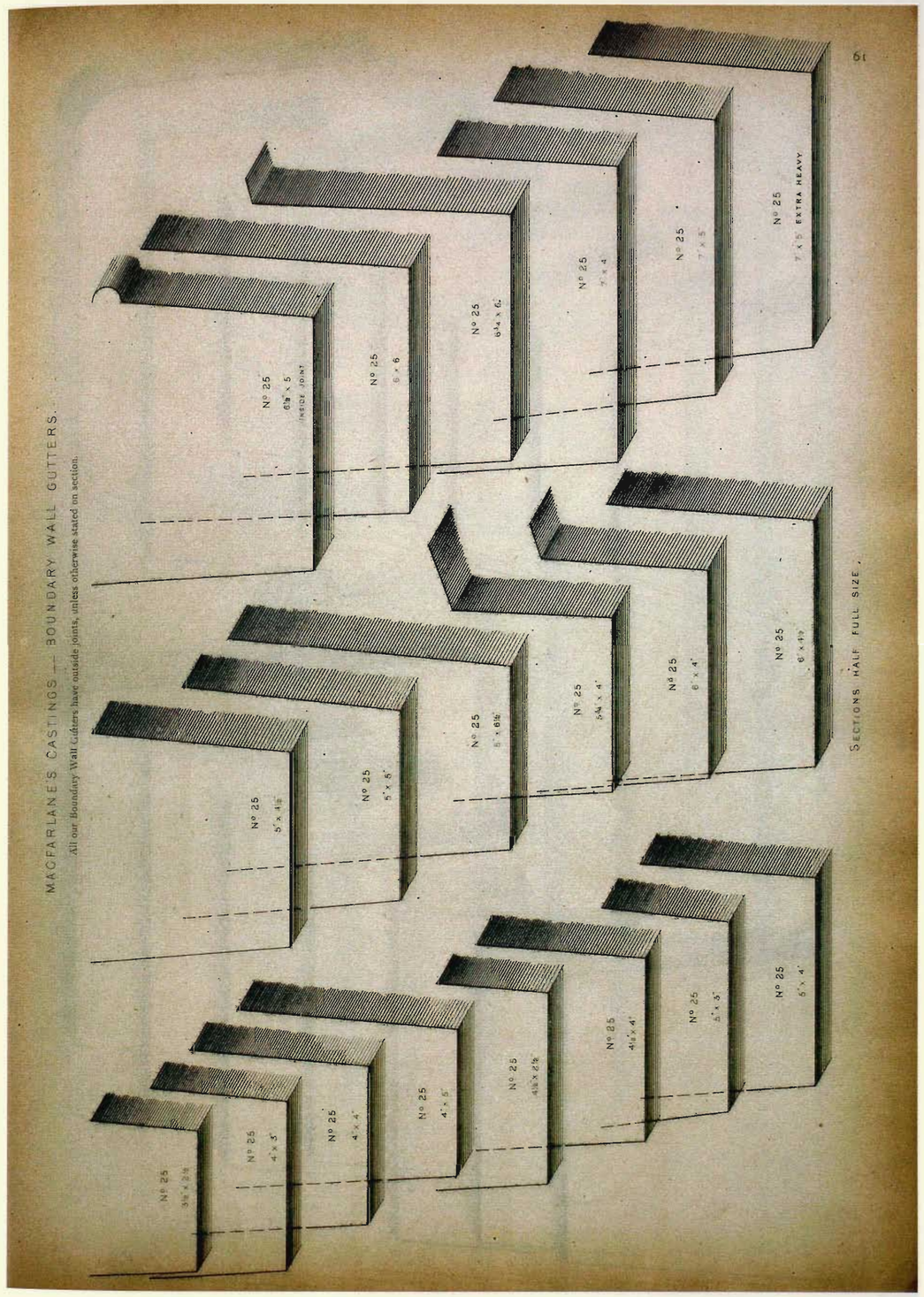

56
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.
No 78
12½ x 9'
No 64
12½ x 8'
No 97
13¾ x 6'
No 46
EXTRA HEAVY
No 46'
13¾ x 4'
No 64
SECTIONS HALF FULL SIZE

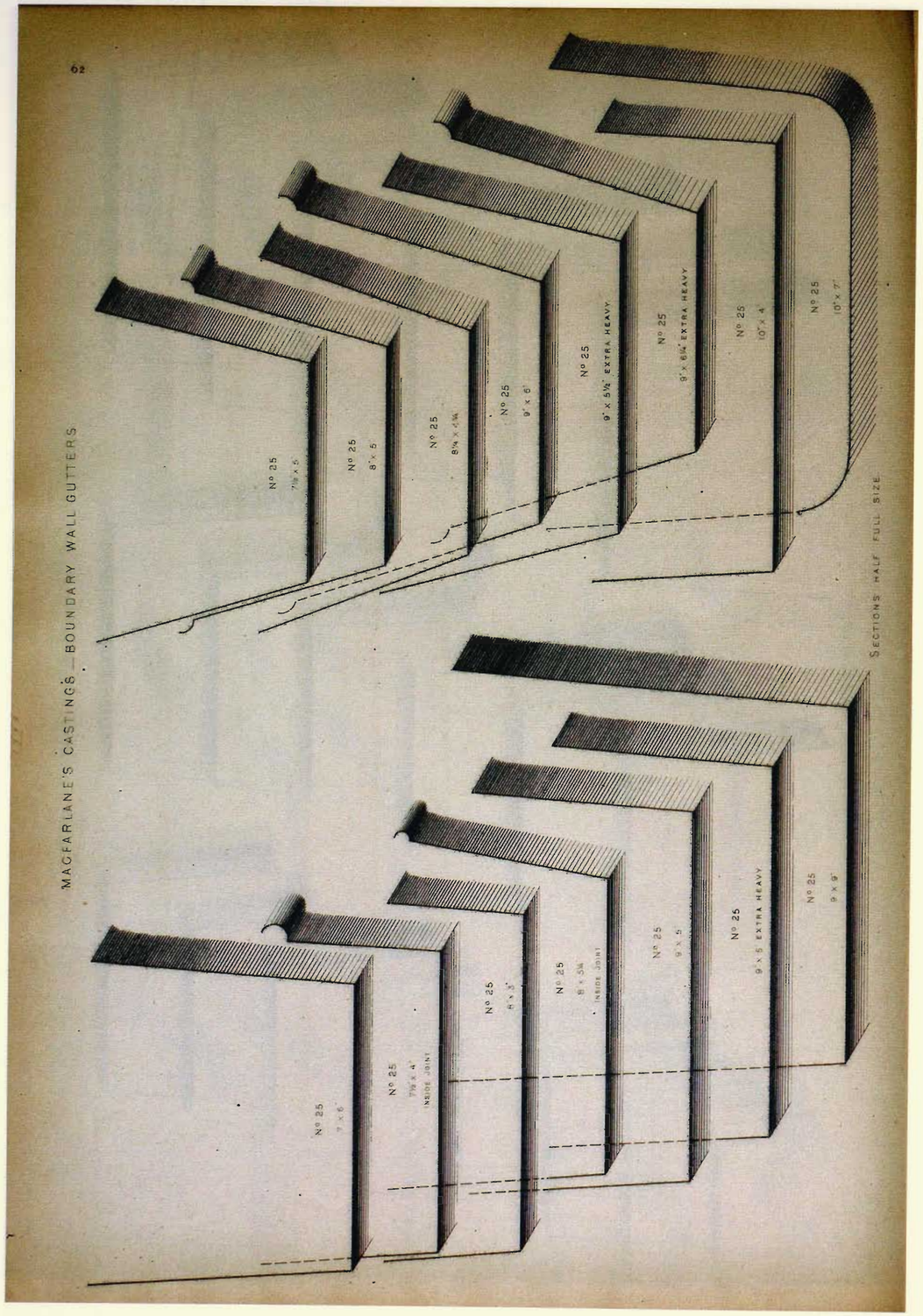

57
MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS.
No 10
13½ x 9'
No 49
15' x 8'
No 10
13½ x 9' EXTRA HEAVY
No 46
15' x 8' EXTRA HEAVY
No 13
13½ x 8'
No 12
12½ x 6'
SECTIONS HALF FULL SIZE

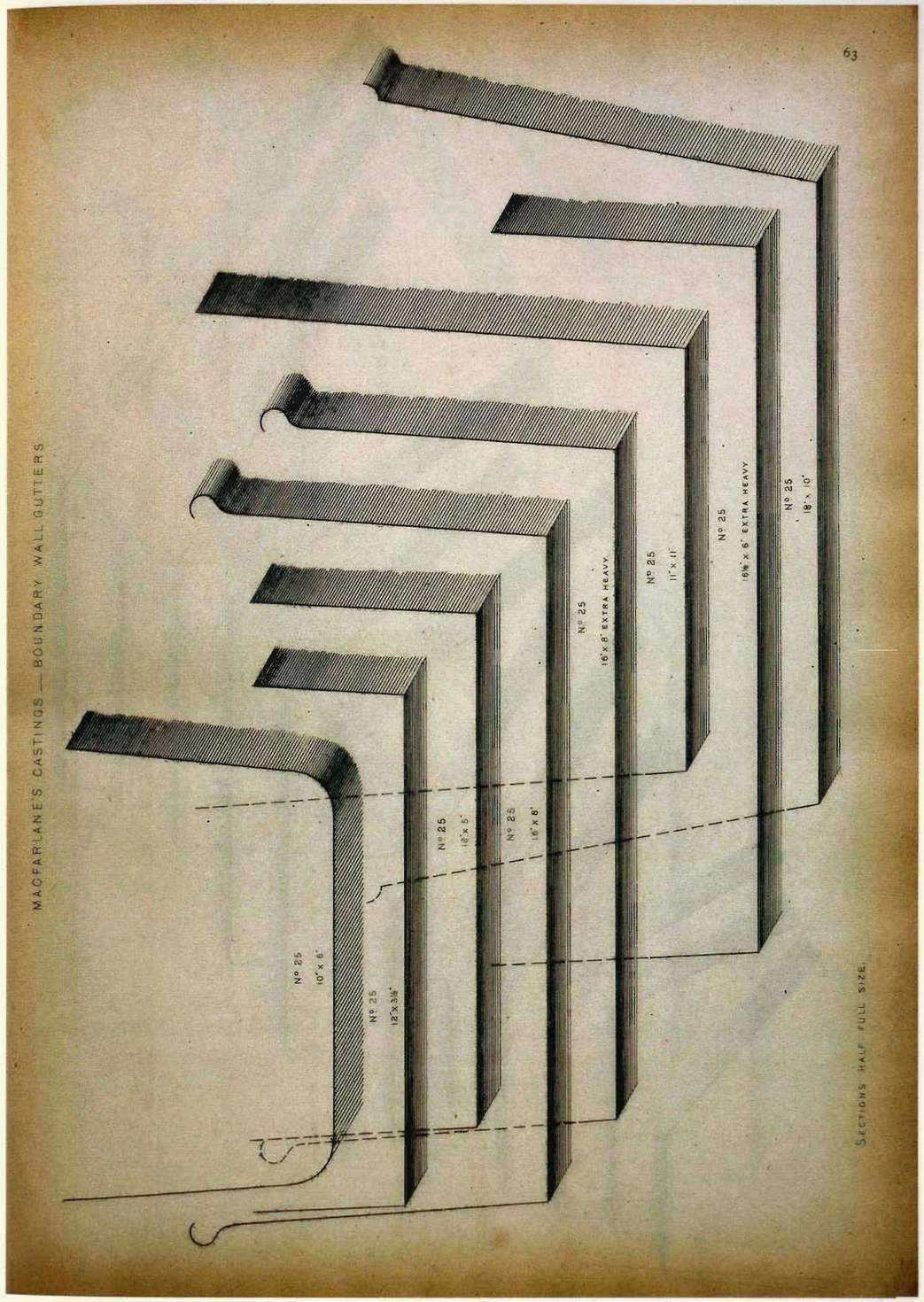

MACFARLANE'S CASTINGS — ORNAMENTAL GUTTERS
No 12
15¼ x 6" EXTRA HEAVY
No 67
18" x 7½"
No 10
16¼ x 7½ EXTRA HEAVY
No 46
15" x 12¼" EXTRA HEAVY
SECTIONS HALF FULL SIZE

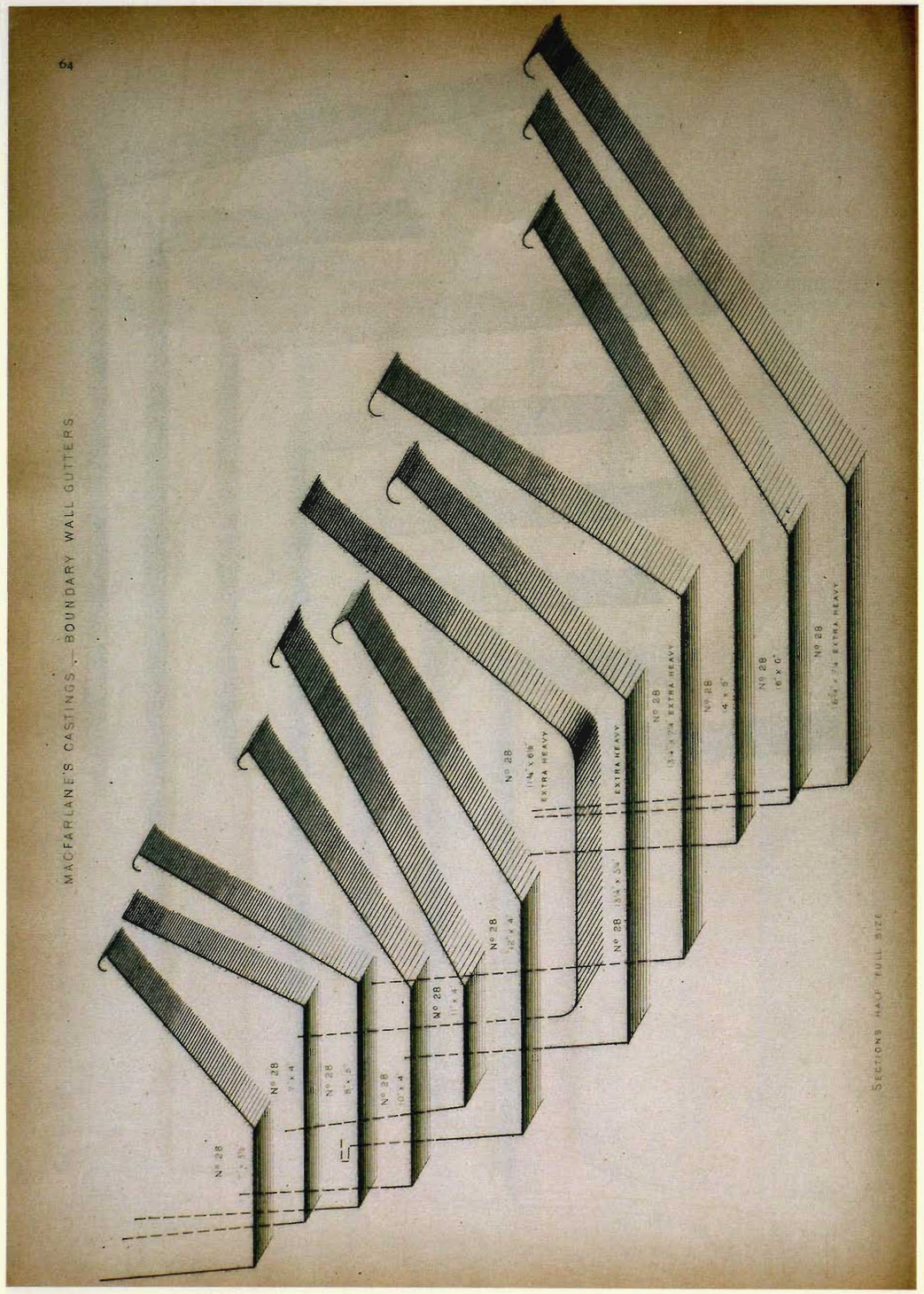

MACFARLANE'S CASTINGS — CIRCULAR GUTTERS
With the view of providing Cornice Gutters for every size and form of building, we make the following Circular Gutters of any radius from the smallest turret to the largest building. They correspond with the same Nos. of our Straight Gutters, and the same Ornamentals, Brackets, and Connections are suitable for both. Other Patterns to order.
No 46
No 5
No 23
No 12
No 23
No 12
No 38
No 23
No 43
No 46
No 44
No 10
No 16
No 38
No 1
No 2
No 1
No 2
No 3
No 1
No 2
No 2
SECTIONS
HALF FULL SIZE

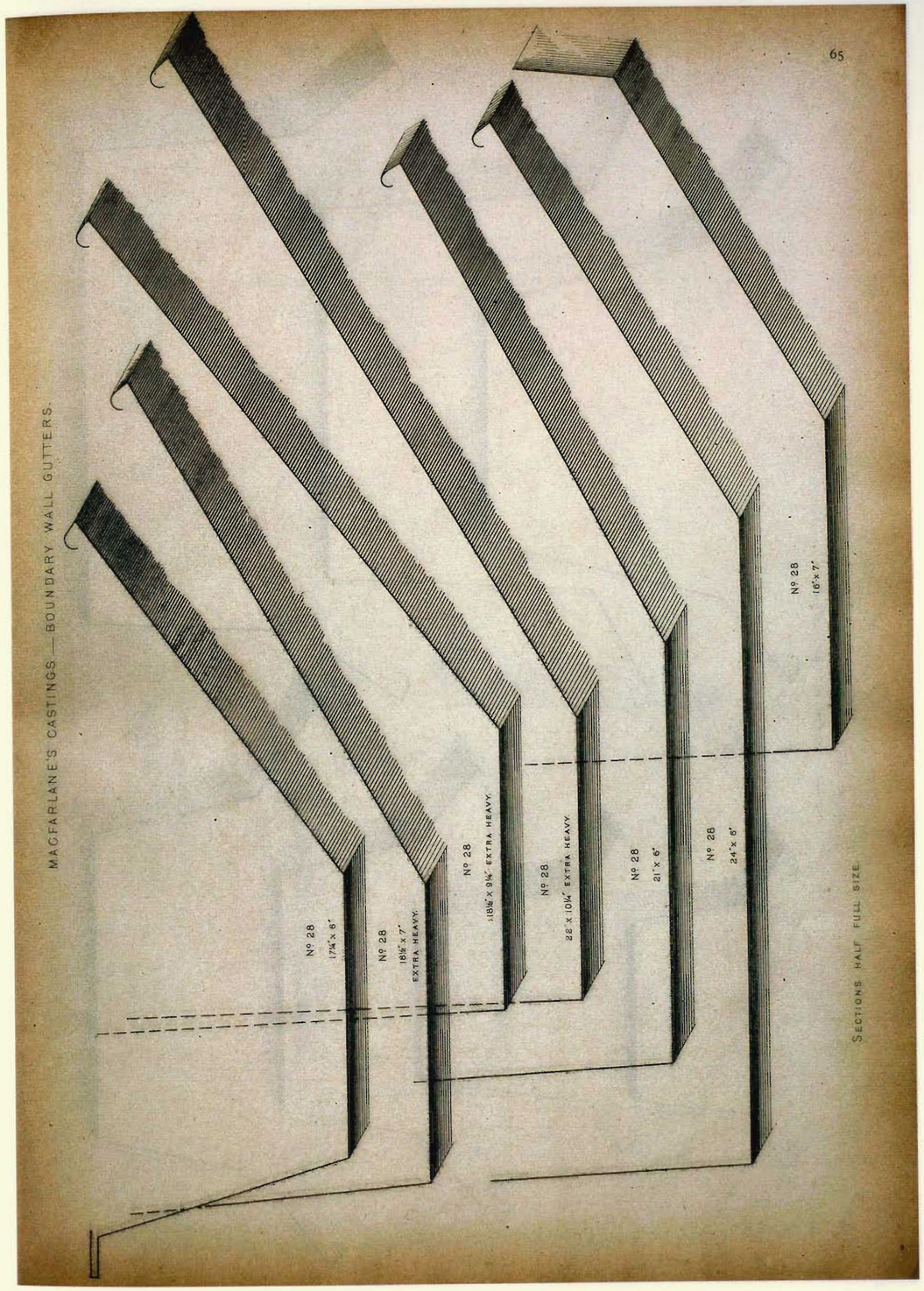

60
MACFARLANE'S CASTINGS — CIRCULAR GUTTERS
SECTIONS HALF FULL SIZE
No 56
No 44 8" x 6"
No 8 8" x 6"
No 10 8" x 5"
No 13 6" x 6"
No 56 8" x 6"
No 44 6½" x 4½"
No 48 6" x 4½"
No 57 6" x 5"
No 49 6" x 4½"
No 46 7½" x 5"
No 12 8" x 5"
No 13 6" x 4"
No 10 6" x 4½"
No 46 6" x 4½"
No 8 6" x 4½"
No 56 6" x 4½"

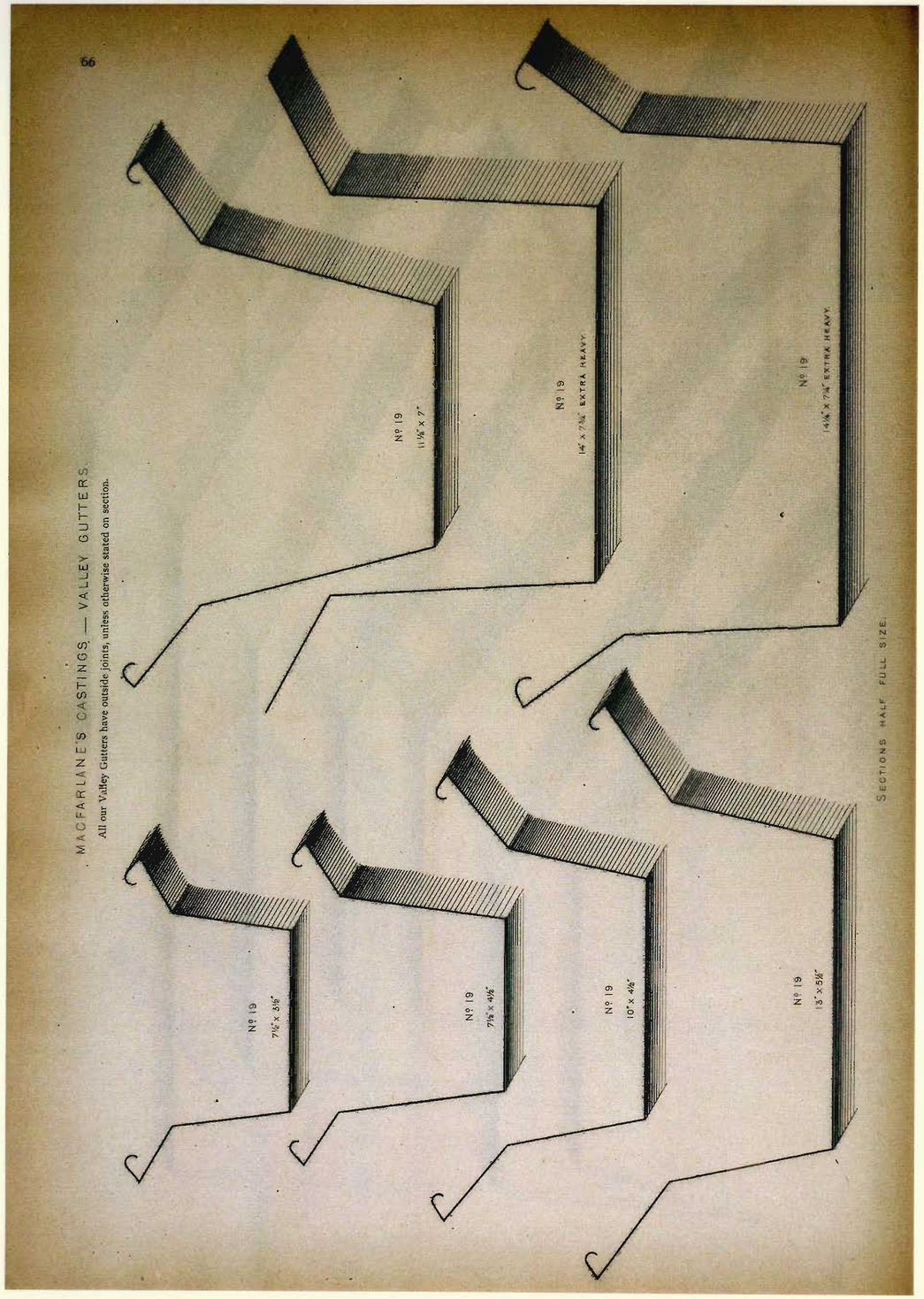

61
MACFARLANE'S CASTINGS — BOUNDARY WALL GUTTERS.
All our Boundary Wall Gutters have outside joints, unless otherwise stated on section.
SECTIONS HALF FULL SIZE.
No 25 6½" x 5" INSIDE JOINT
No 25 6" x 6"
No 25 6¼" x 6"
No 25 7" x 4"
No 25 7" x 5"
No 25 7" x 5" EXTRA HEAVY
No 25 5" x 4½"
No 25 5½" x 4"
No 25 6" x 6½"
No 25 6¼" x 4"
No 25 6" x 4"
No 25 6" x 4½"
No 25 3½" x 2½"
No 25 4" x 3"
No 25 4" x 4"
No 25 4" x 5"
No 25 4½" x 2½"
No 25 4½" x 4"
No 25 5" x 3"
No 25 5" x 4"

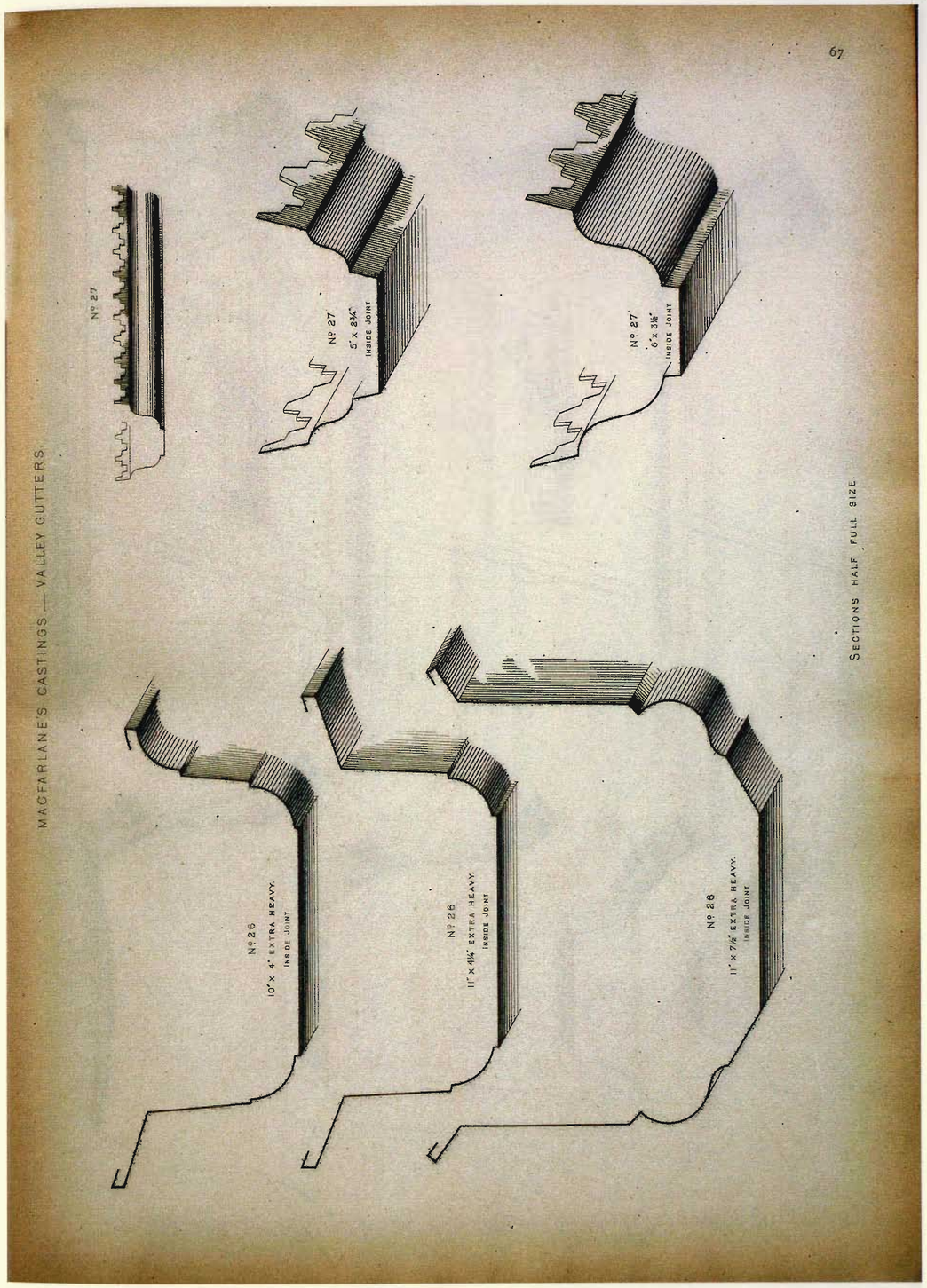

62
MACFARLANE'S CASTINGS — BOUNDARY WALL GUTTERS
SECTIONS HALF FULL SIZE
No 25 7"x 5"
No 25 8" x 5"
No 25 8¼" x 4¾"
No 25 9" x 6"
No 25 9" x 5½" EXTRA HEAVY
No 25 9" x 6¼" EXTRA HEAVY
No 25 10" x 4"
No 25 10" x 7"
No 25 7"x 6"
No 25 7½" x 4" INSIDE JOINT
No 25 8" x 3"
No 25 8" x 5¼" INSIDE JOINT
No 25 9" x 5"
No 25 9" x 5" EXTRA HEAVY
No 25 9" x 9"

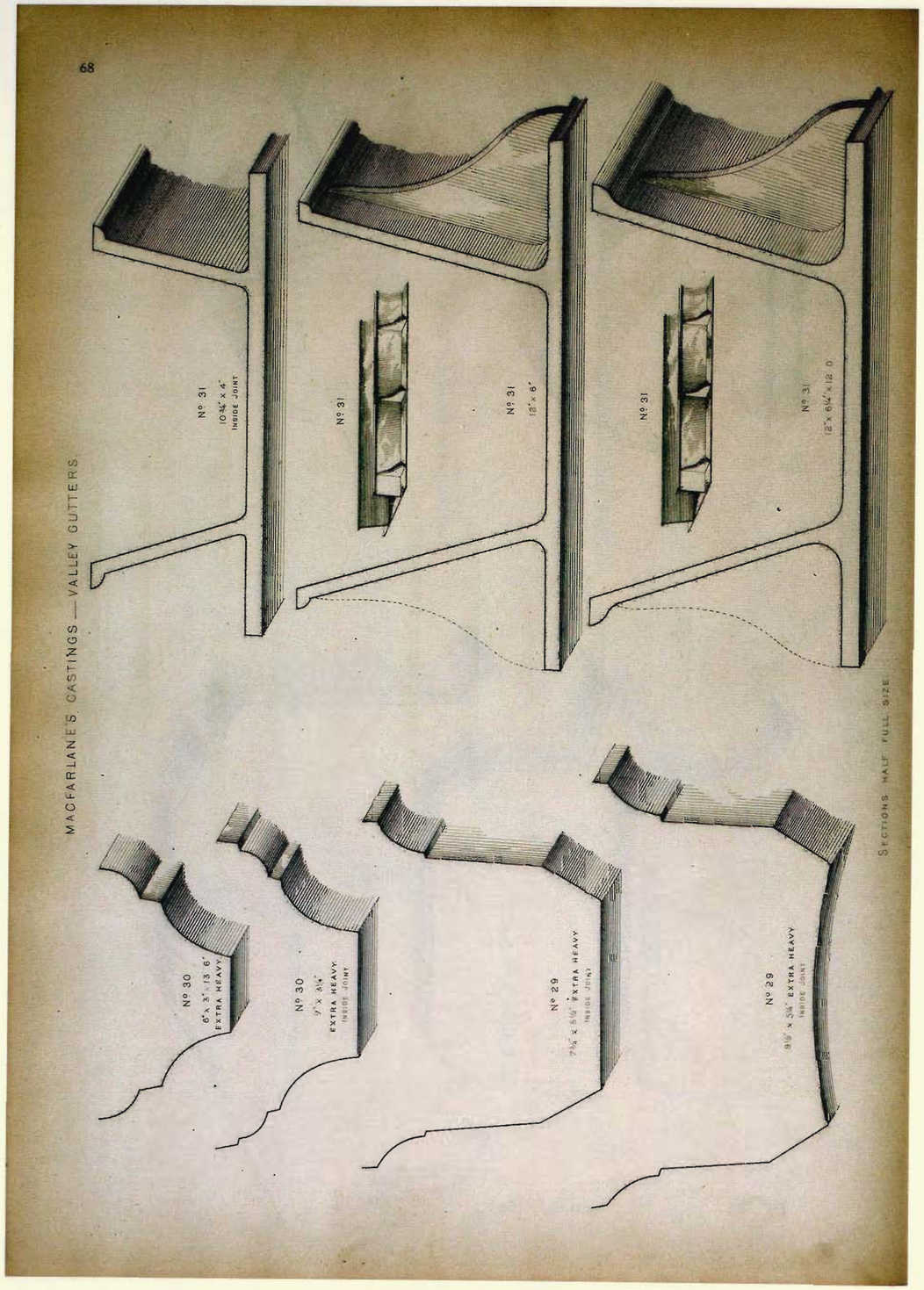

63
MACFARLANE'S CASTINGS — BOUNDARY WALL GUTTERS
SECTIONS HALF FULL SIZE
No 25 10" x 6"
No 25 12" x 3½"
No 25 16" x 5"
No 25 16" x 6"
No 25 16" x 8" EXTRA HEAVY
No 25 11" x 11"
No 25 6¼" x 6" EXTRA HEAVY
No 25 18" x 10"

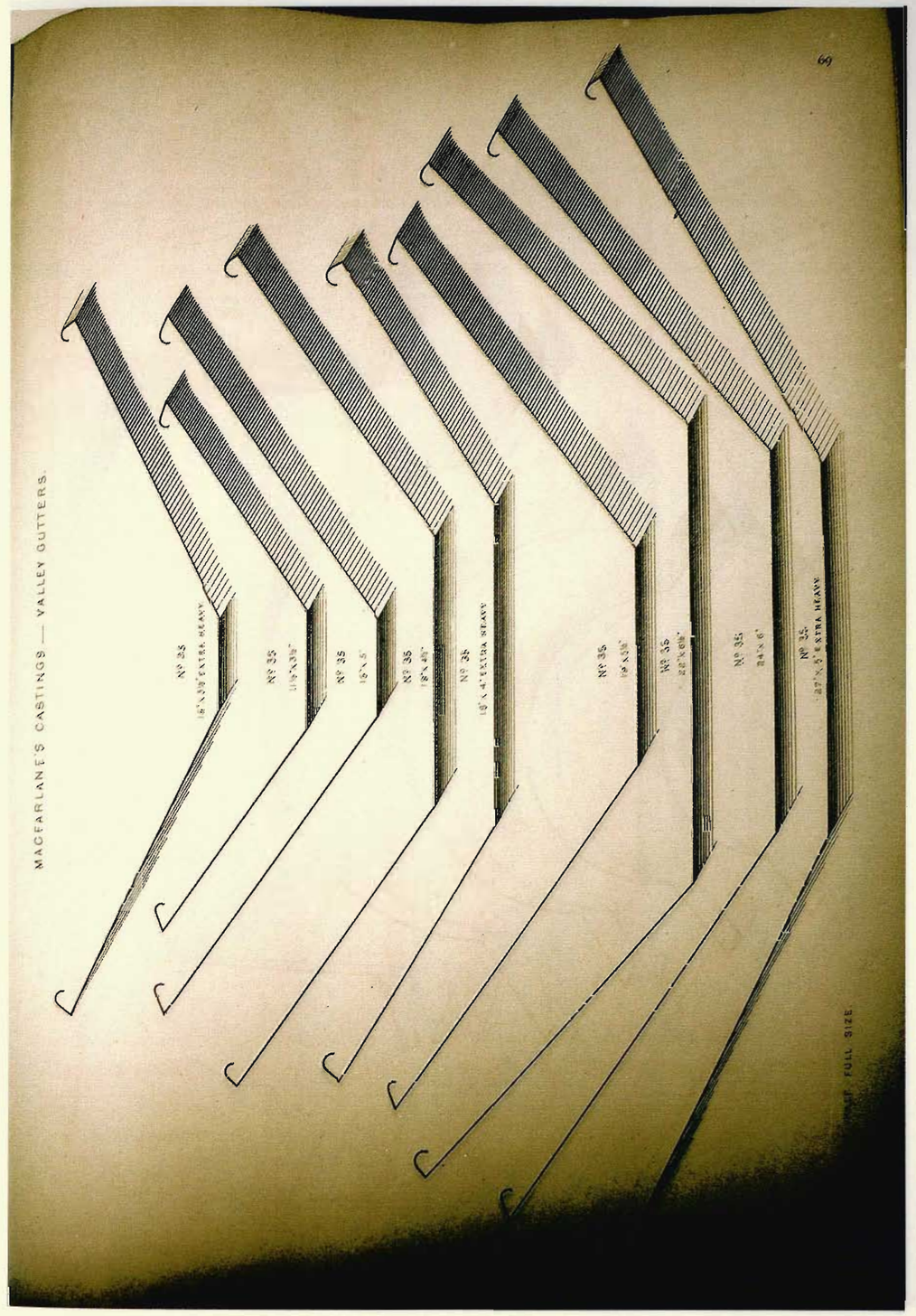

64
MACFARLANE'S CASTINGS. — BOUNDARY WALL GUTTERS.
SECTIONS HALF FULL SIZE.

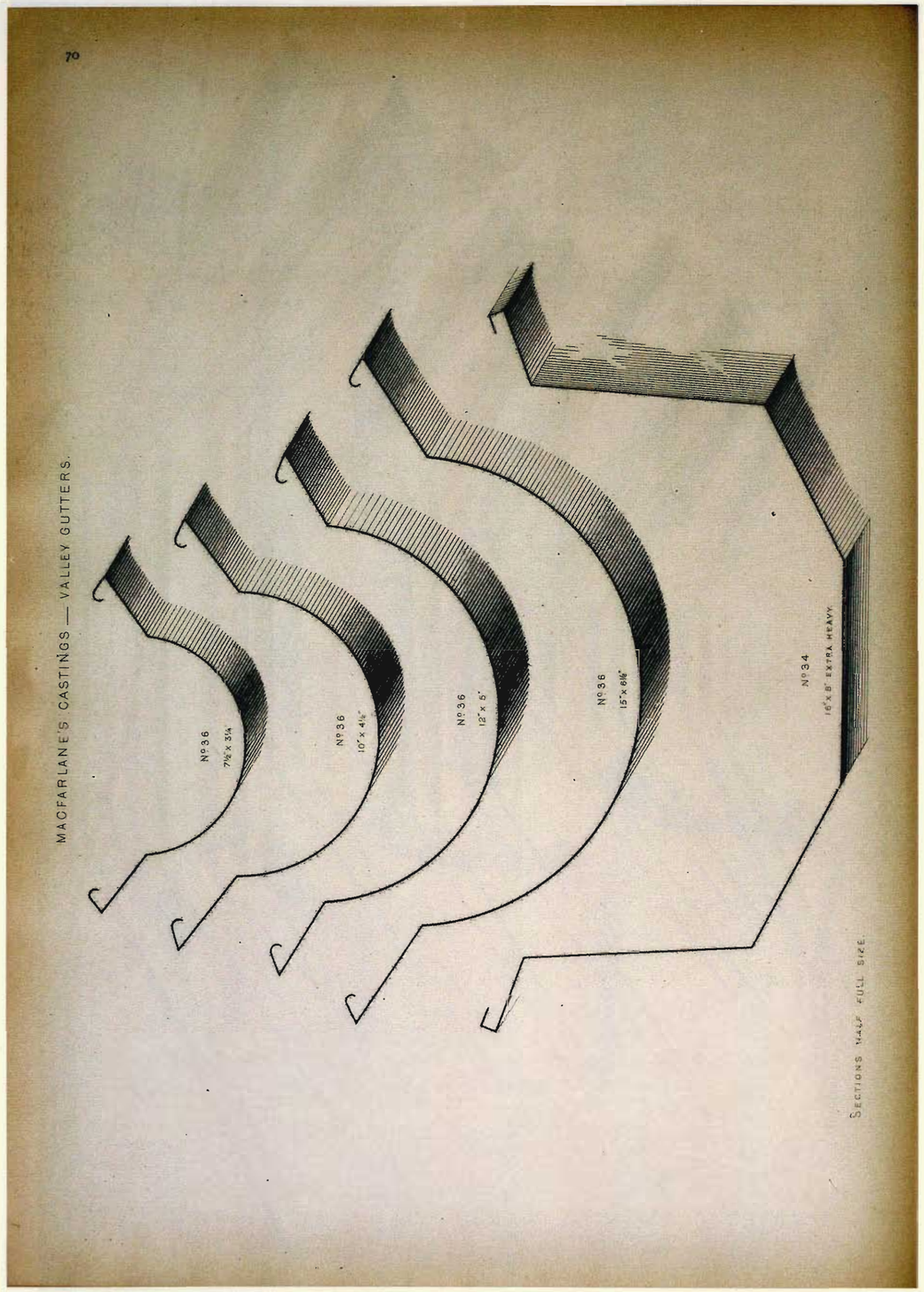

65
MACFARLANE'S CASTINGS. — BOUNDARY WALL GUTTERS.
SECTIONS HALF FULL SIZE.

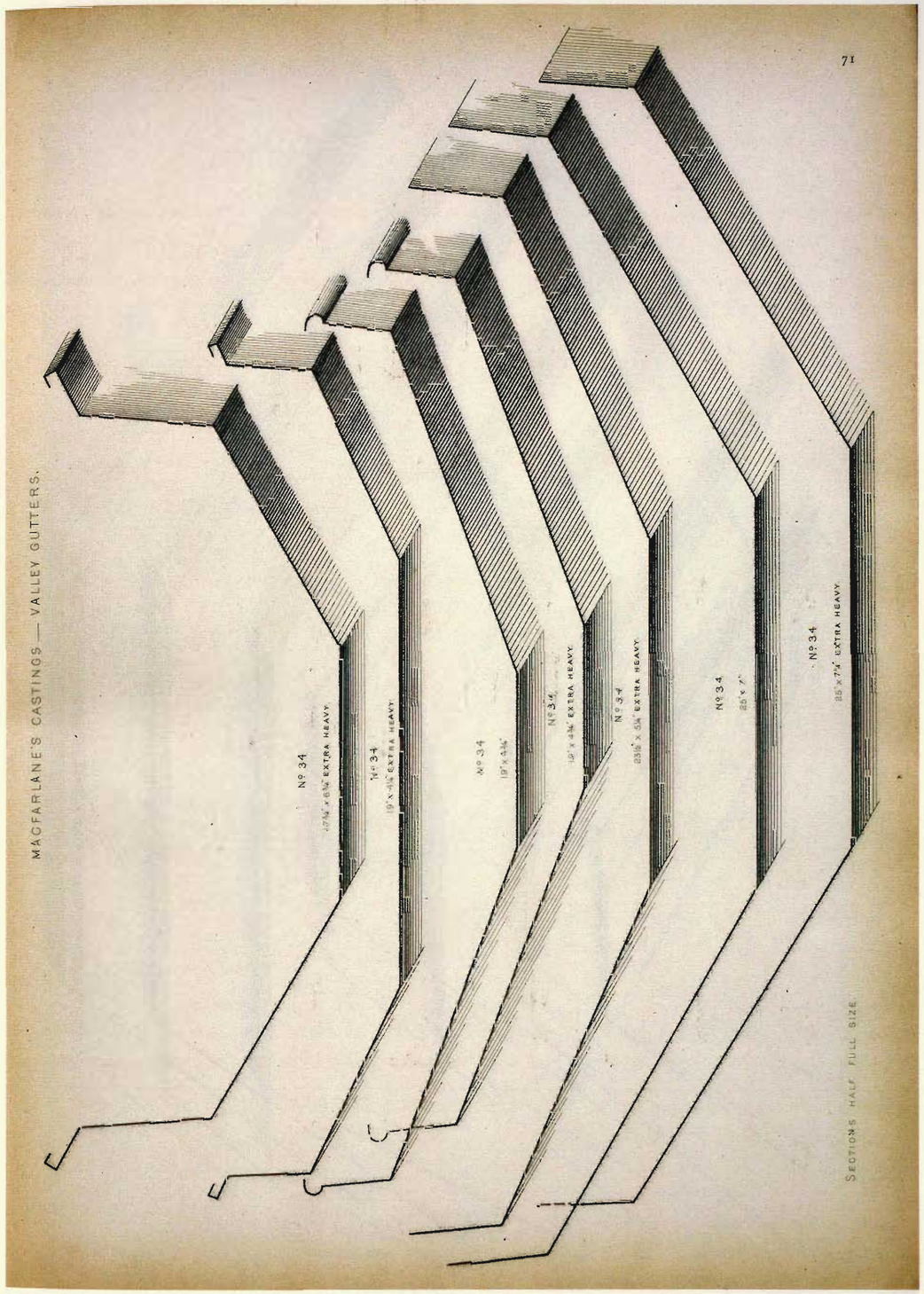

MACFARLANE'S CASTINGS — VALLEY GUTTERS.
All our Valley Gutters have outside joints, unless otherwise stated on section.
No 19
11½" x 7"
No 19
14" x 7¾" EXTRA HEAVY.
No 19
14¼" x 7¾" EXTRA HEAVY.
No 19
7½" x 3½"
No 19
7⅞" x 4½"
No 19
10" x 4½"
No 19
13" x 5½"
SECTIONS HALF FULL SIZE.


MACFARLANE'S CASTINGS — VALLEY GUTTERS.
No 27
No 27
5" x 2¾"
INSIDE JOINT
No 27
6" x 3½"
INSIDE JOINT
No 26
10" x 4" EXTRA HEAVY.
INSIDE JOINT
No 26
11" x 4¼" EXTRA HEAVY.
INSIDE JOINT
No 26
11" x 7½" EXTRA HEAVY.
INSIDE JOINT
SECTIONS HALF FULL SIZE.


68
MACFARLANE'S CASTINGS — VALLEY GUTTERS.
Nº 31
10¾" x 4"
INSIDE JOINT
Nº 31
Nº 31
12" x 6"
Nº 31
Nº 31
12" x 6¼" x 12" 0
SECTIONS HALF FULL SIZE
Nº 30
6" x 3" x 13 6"
EXTRA HEAVY
Nº 30
9" x 3¼"
EXTRA HEAVY
INSIDE JOINT
Nº 29
7½" x 5½" EXTRA HEAVY
INSIDE JOINT
Nº 29
9½" x 3¼" EXTRA HEAVY
INSIDE JOINT

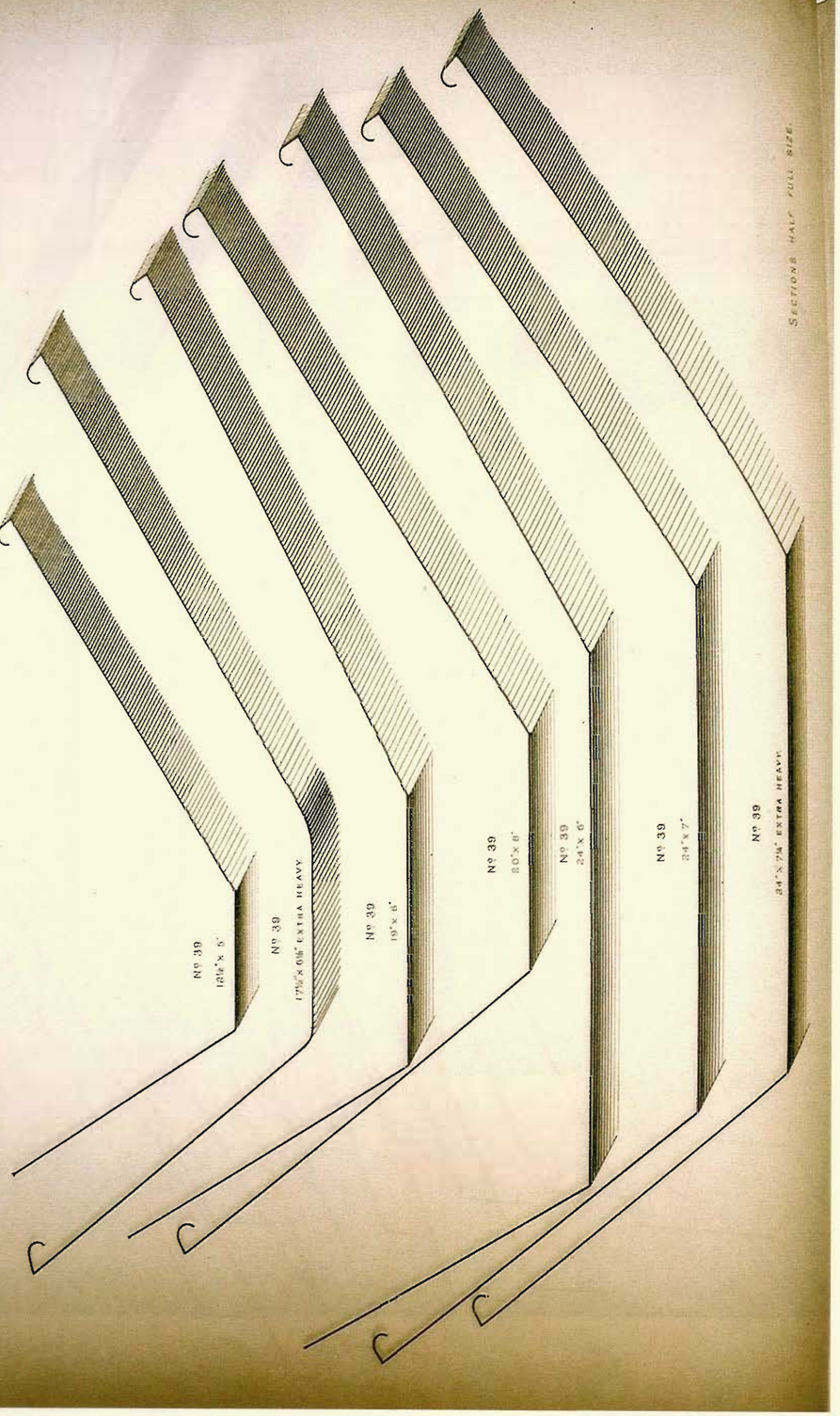

69
MACFARLANE'S CASTINGS — VALLEY GUTTERS.
Nº 35
Nº 35
Nº 35
Nº 34
Nº 35
Nº 35
Nº 35
Nº 35
HALF FULL SIZE


MACFARLANE'S CASTINGS — VALLEY GUTTERS.
Nº 36
7½" x 3¼"
Nº 36
10" x 4½"
Nº 36
12" x 5"
Nº 36
15" x 6⅛"
Nº 34
16" x 8" EXTRA HEAVY.
SECTIONS HALF FULL SIZE.


MACFARLANE'S CASTINGS — VALLEY GUTTERS.
Nº 34
Nº 34
Nº 34
Nº 34
Nº 34
SECTIONS HALF FULL SIZE.

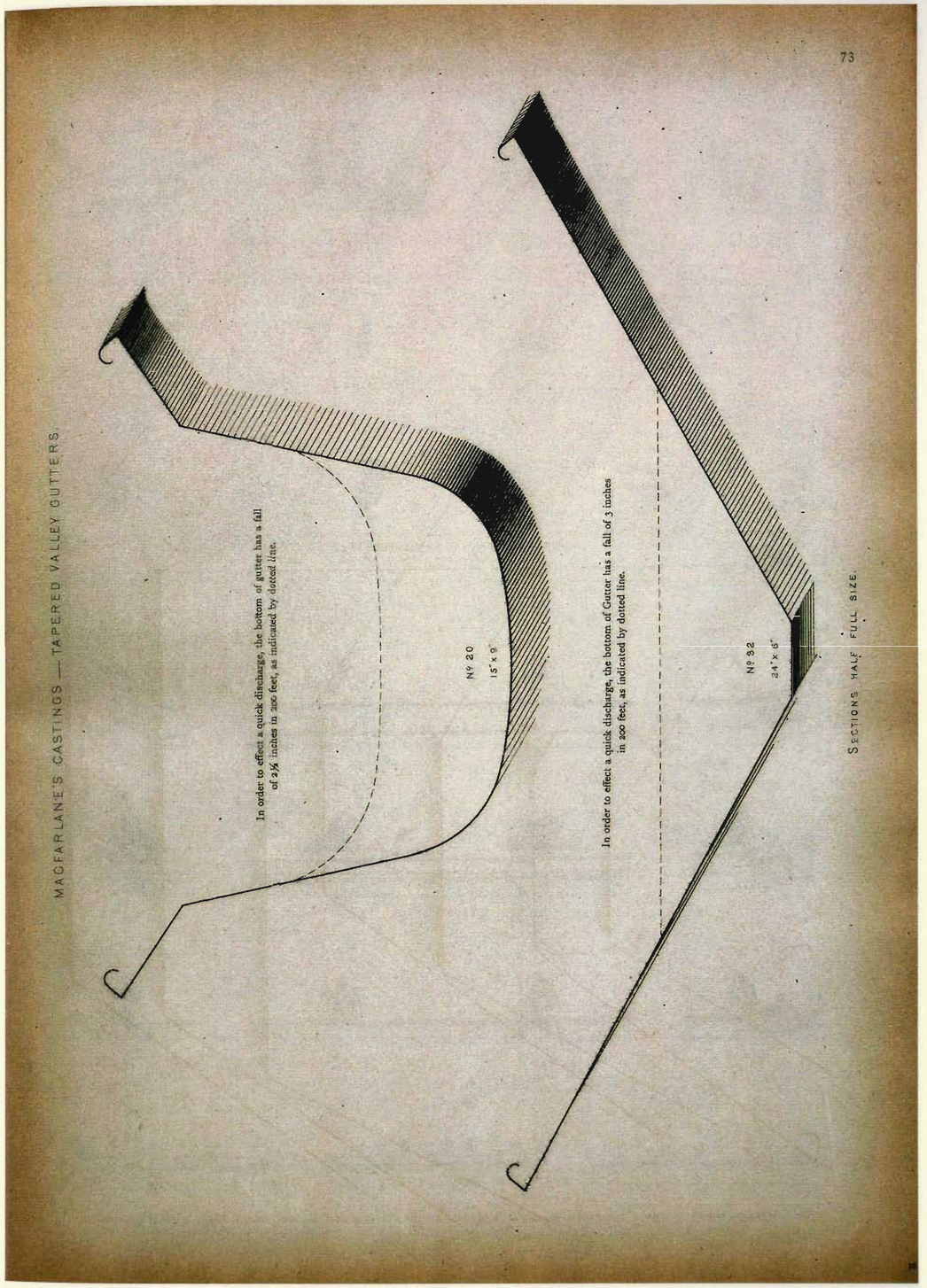
MACFARLANE'S CASTINGS — VALLEY GUTTERS.

SECTIONS HALF FULL SIZE.



MACFARLANE'S CASTINGS — TAPERED VALLEY GUTTERS.

SECTIONS HALF FULL SIZE.



74

MACFARLANE'S CASTINGS — ORNAMENTAL GUTTER CONNECTIONS

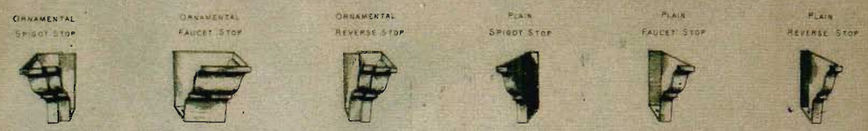
For every pattern and size of Gutter in our Catalogue.



We make any pattern of Angle for every description of oriel window, and to any bevel *to order*.

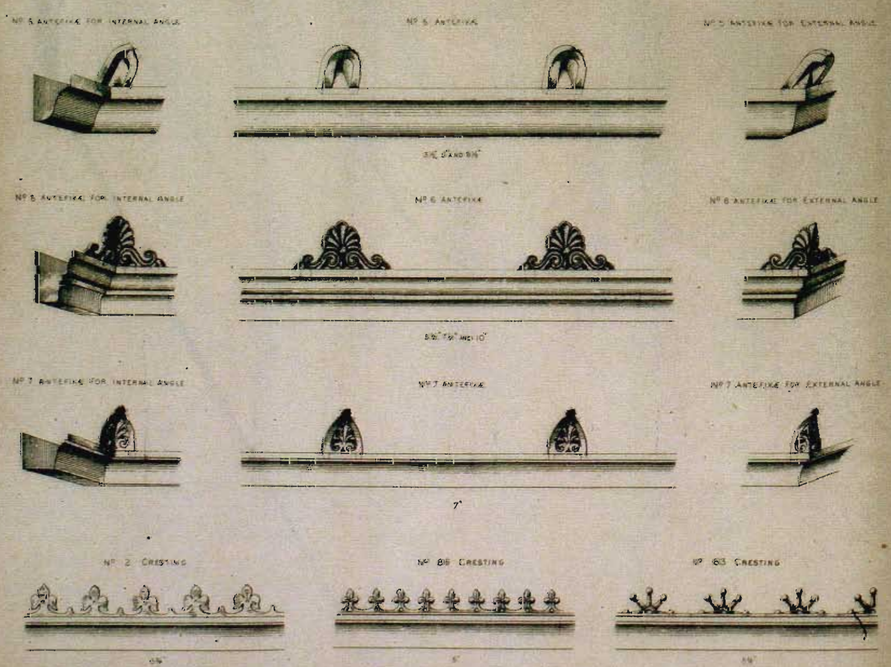


Our Nozzle Pieces have Discharge Drops on bottom. Drops on back or corner, as above, *to order*.
In ordering, the size and No. of down pipe should always be stated.



Every separate stretch of Gutter should have Ornamental Stops, they add so much to the finished appearance of the gutter cornice. Reverse Stops are only used when the gutters are cut and have no spigot.

MACFARLANE'S GUTTER ORNAMENTS

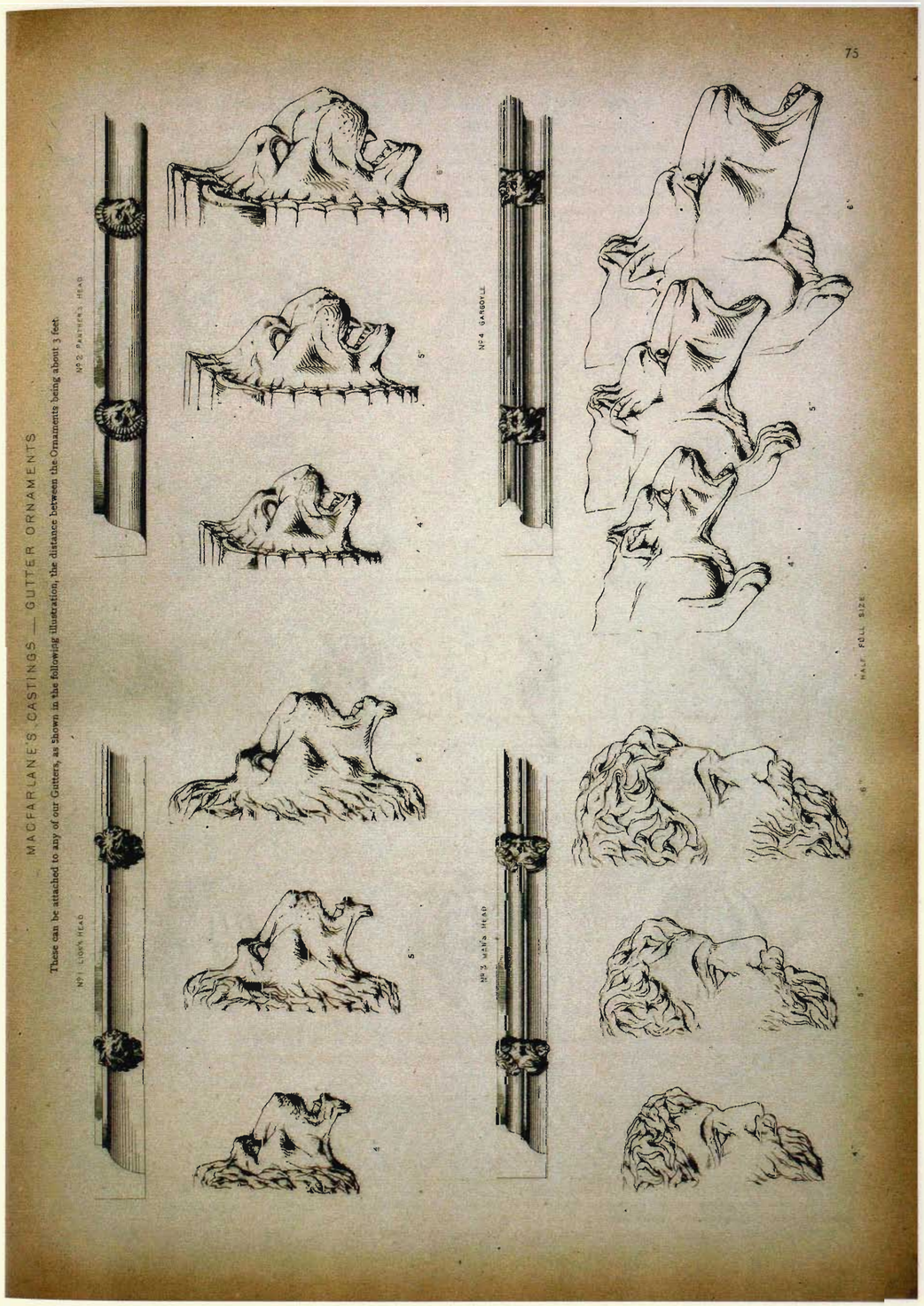


For other designs suitable for Gutter Ornaments and Cresting see Section IV. Terminals and Section V. Railings. Also Examples at end of Catalogue.

75

MACFARLANE'S CASTINGS — GUTTER ORNAMENTS

These can be attached to any of our Gutters, as shown in the following illustration, the distance between the Ornaments being about 3 feet.



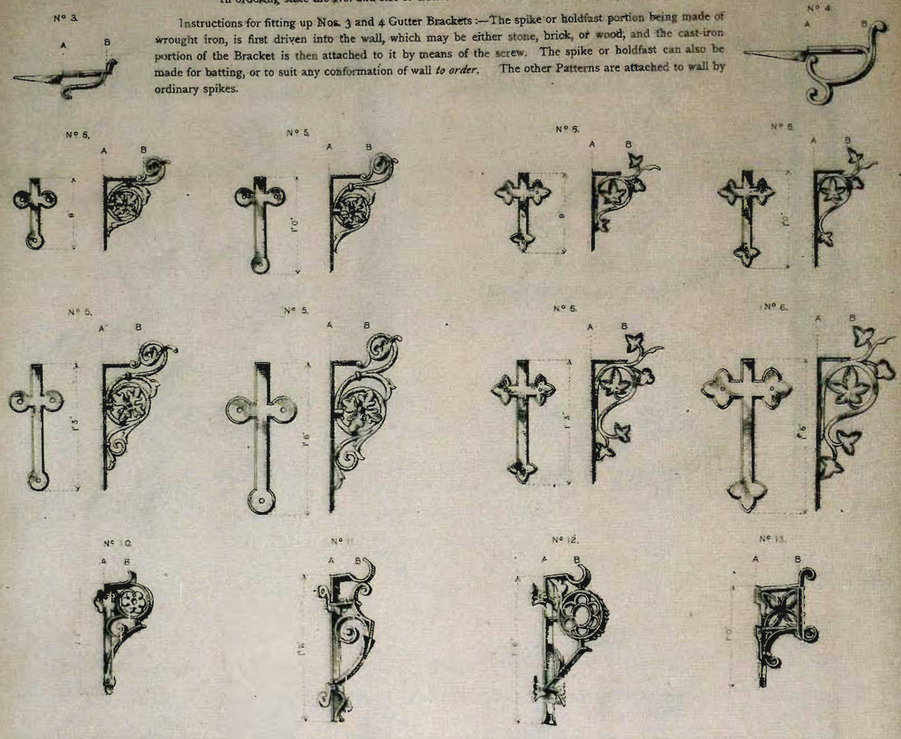
76

MACFARLANE'S CASTINGS — ORNAMENTAL GUTTER BRACKETS

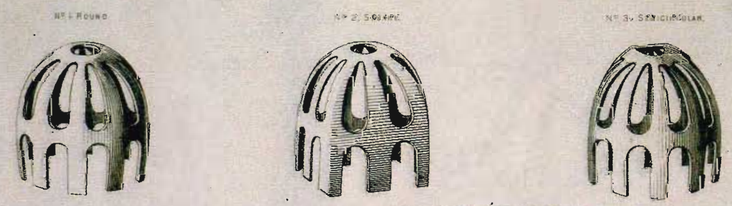
We make these any size between A and B from 2¼ to 8 inches, thus suiting every pattern and size of Gutter in our Catalogue.

In ordering state the No. and size of Gutter to which the Bracket is to be attached.

Instructions for fitting up Nos. 3 and 4 Gutter Brackets :—The spike or holdfast portion being made of wrought iron, is first driven into the wall, which may be either stone, brick, or wood, and the cast-iron portion of the Bracket is then attached to it by means of the screw. The spike or holdfast can also be made for batting, or to suit any conformation of wall *to order*. The other Patterns are attached to wall by ordinary spikes.



MACFARLANE'S DROP GRATES



We make No. 1—2", 2¼", 2½", 2¾", 3", 3¼", 3½", 3¾", 4", 4¼", 4½", 4¾", 5", 5¼", 5½", 5¾", and 6" outside diameter, and Nos. 2 and 3 to suit every size of Gutter Drop. This essential requisite should be placed over every discharge drop to prevent flooding the Gutters. It is fixed by firmly embedding the lower end (which is slightly tapered) into the drop pipe of Gutter.

SNOW GRATE.



6, 7, 8, 9, 10, 11, 12, 13, 14, 15 AND 16 SIZES.

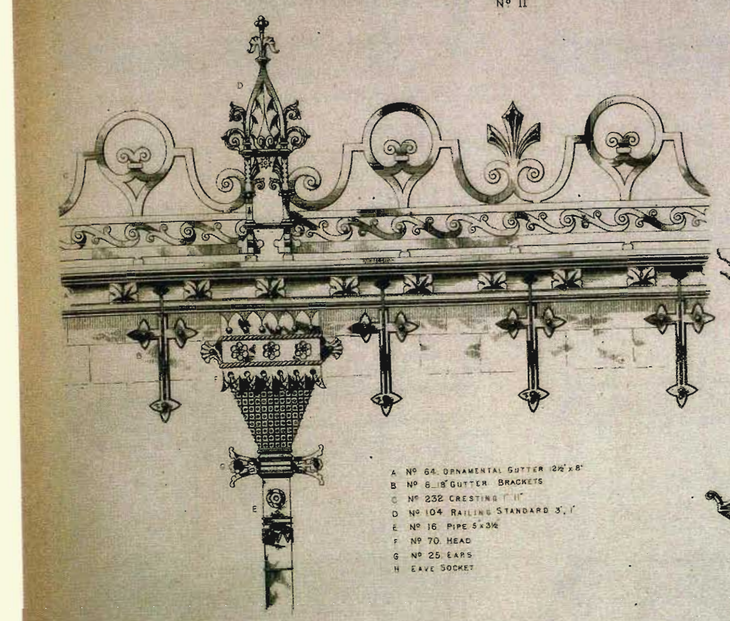
The Snow Grate prevents the Gutter from getting choked up with snow and thereby causing the water to overflow and damage the building. The Castings are joined into one continuous grating by dovetail joints.

77

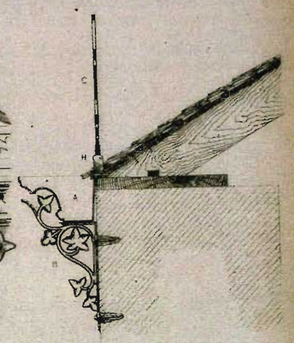
MACFARLANE'S CASTINGS — EXAMPLES

Application of Gutters and Roof Ironwork to Buildings.

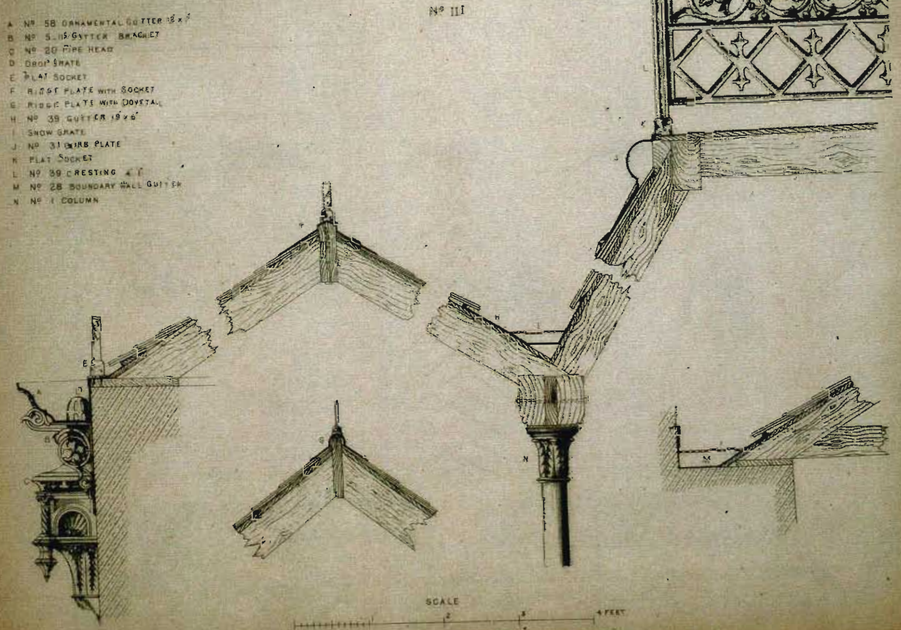
Nº II



SECTION OF GUTTER CORNICE



Nº III



SECTION III.—RIDGING.

FOR PAVILION, DORMER, TOWER, AND MANSARD ROOFS, &c.

The great change that has taken place in the architectural treatmept of roofs, calls for an amount of artistic consideration, altogether beyond what was given to it in former years, the architect's aim then being rather to hide, than as in the present day to bring into prominence the crowning glories of the roof. The following designs, combined with those in Terminals and Railings Sections, illustrate the endless adaptations of our ironwork for this purpose.

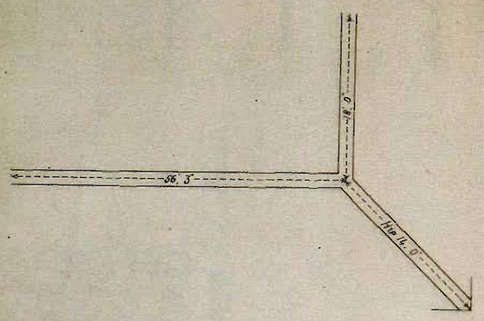
Please insert in Specification "**To be Macfarlane's Castings, from Saracen Foundry, Glasgow,**" to prevent an inferior article being supplied.

Ridge Plates, ...page 79
Curb and Hip Plates, ... „ 80
Corner Shield and Crockets, ... „ 80
Drip and Barge Frets, ...page 81
Examples Nos. III., IV., and V., ...pages 77 and 82
Also other Examples at end of Catalogue.

DIRECTIONS FOR ORDERING.

State the Nos. and sizes, also the pitch of roof, and either order so many lengths along with the necessary connections, or by giving us a rough plan of the building with exact measurements we will furnish them, all properly marked and ready for fitting up. In ordering Curb and Hip Plates it is desirable to send a drawing showing section of roof at curb. The following examples show the simplest method of ordering and giving measurements when wanted cut ready for fitting up.

1 Stretch, No. 22 Ridge Plate 8″ × 8″ as sketch. The pitch of roof is $\frac{1}{3}$ of span.
1 No. 21 Finial 5′ 0″ high to be fixed to angle by bolt, 1′ 6″ long, with nut.



1 Set ironwork for Mansard Roof as sketch, consisting of No. 33 Curb Plate 20½″, and No. 31 Hip Plate 12¼″ × 12¼″, with No. 1 Corner Shields, No. 162 Cresting 4′ 0″ high, having No. 158 Bannerets 8′ 3″ high at corners, fitted with wrought iron bolts 1′ 6″ long with nuts—Pitch and Section of roof as per drawings herewith.

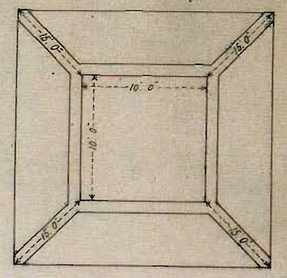
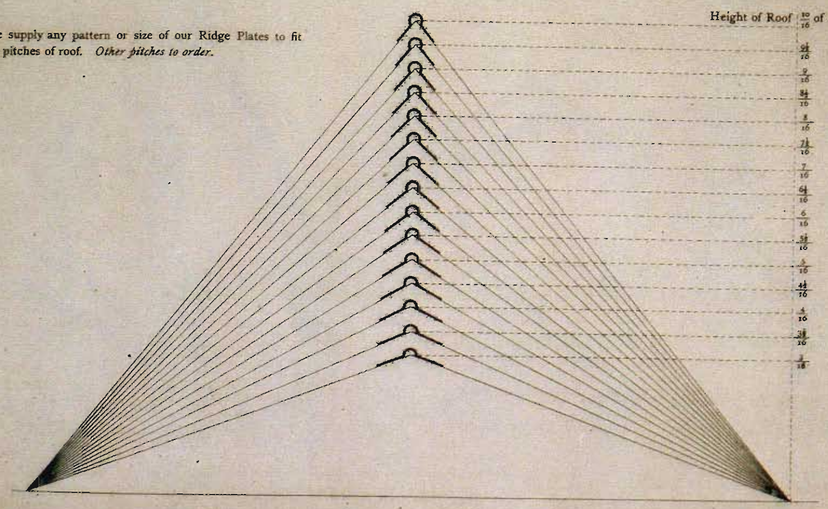
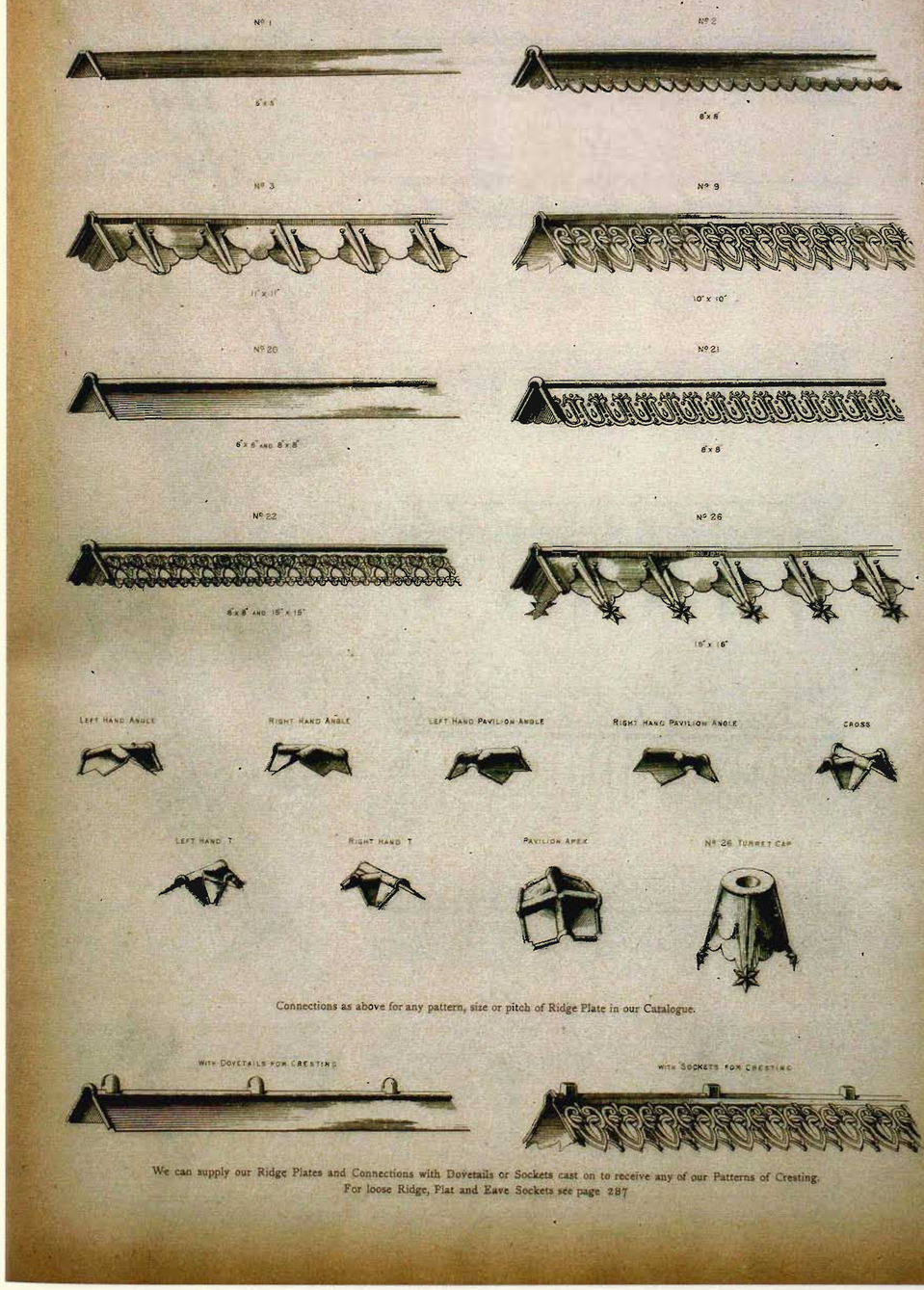


DIAGRAM OF PITCHES.

We supply any pattern or size of our Ridge Plates to fit these pitches of roof. *Other pitches to order.*

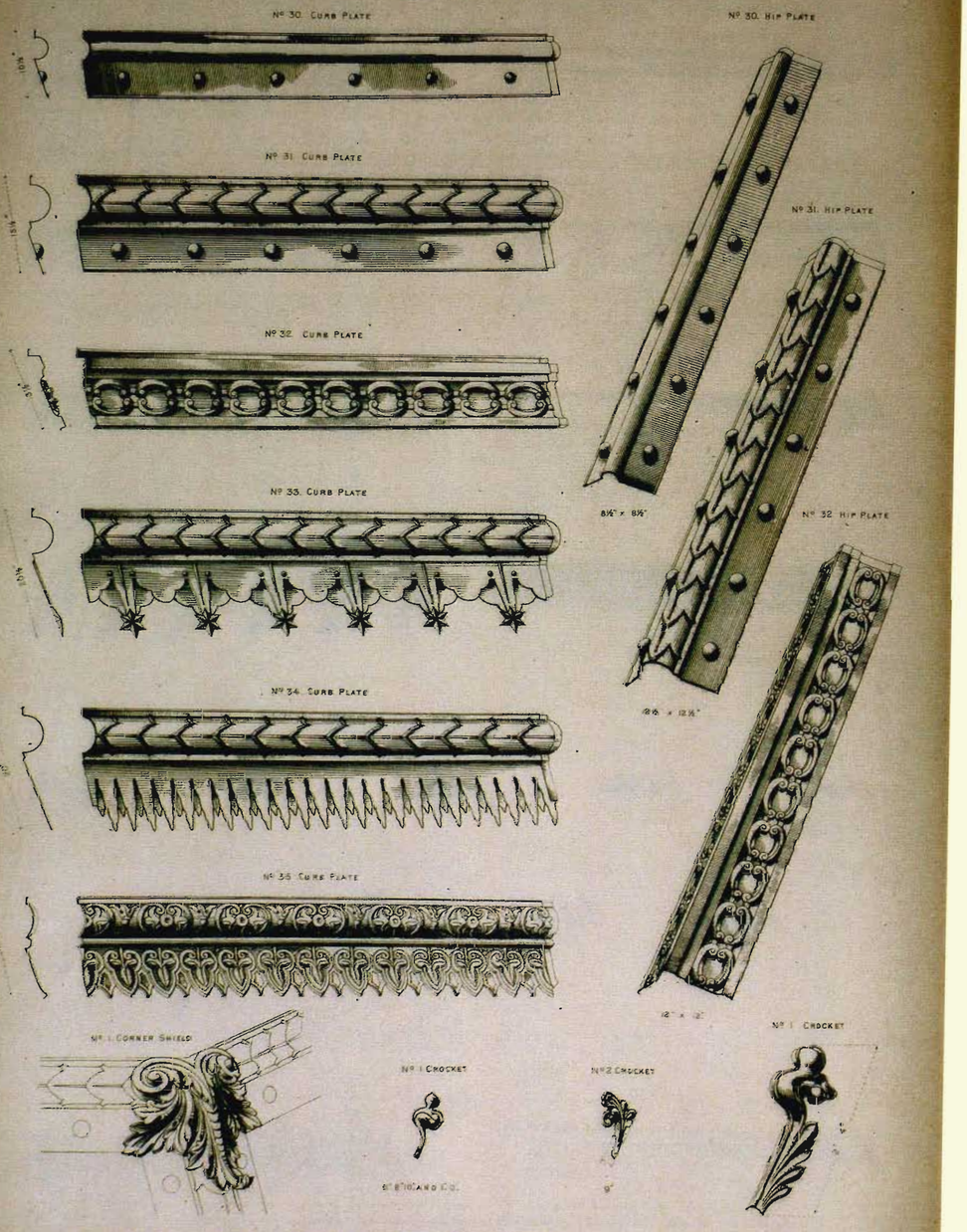




Connections as above for any pattern, size or pitch of Ridge Plate in our Catalogue.

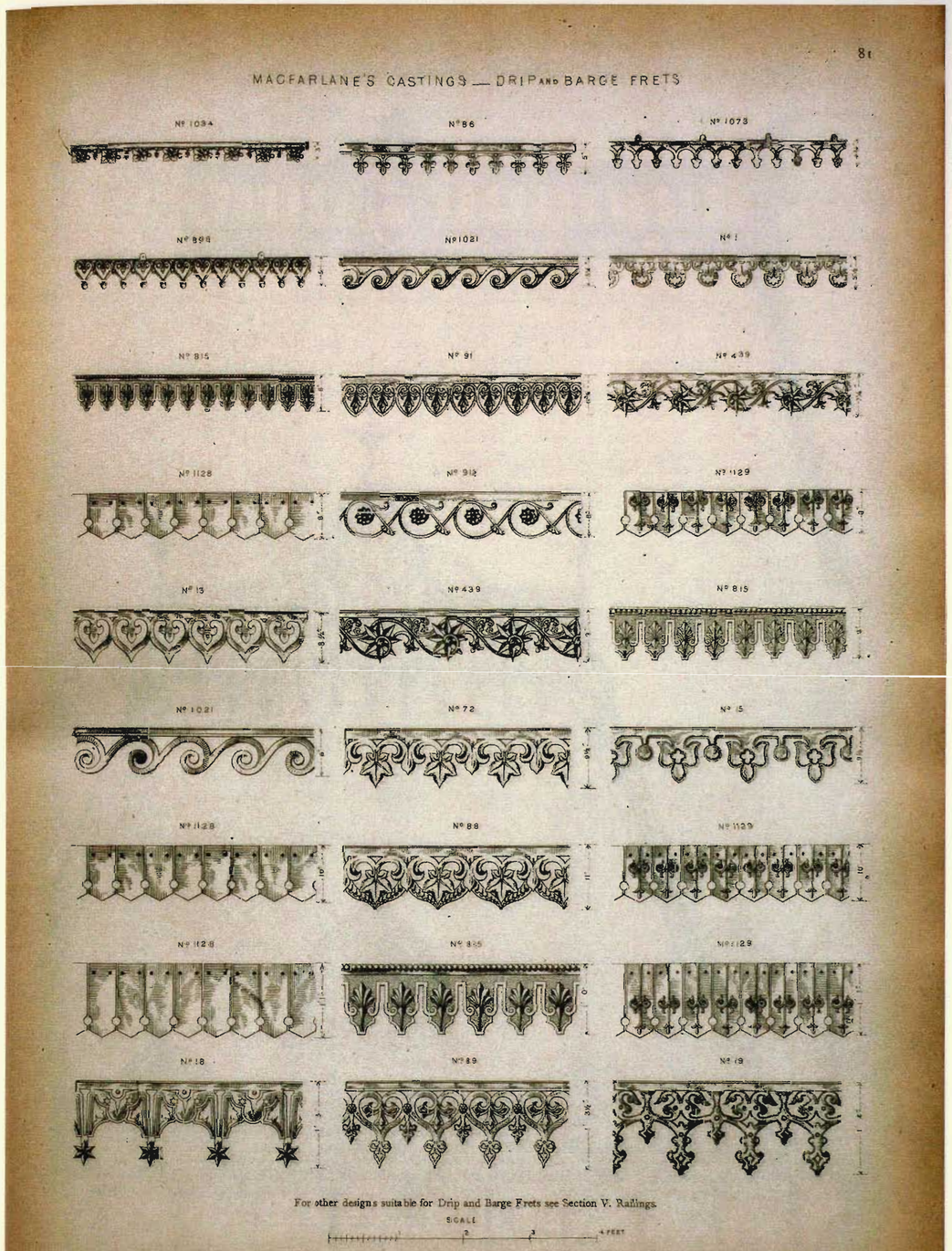
We can supply our Ridge Plates and Connections with Dovetails or Sockets cast on to receive any of our Patterns of Cresting.
For loose Ridge, Flat and Eave Sockets see page 287

MACFARLANE'S CASTINGS — CURB AND HIP PLATES



We make Curb and Hip Plates, Corner Shields and Crockets to suit any pitch of roof. See examples of application at end of Catalogue.

MACFARLANE'S CASTINGS — DRIP AND BARGE FRETS

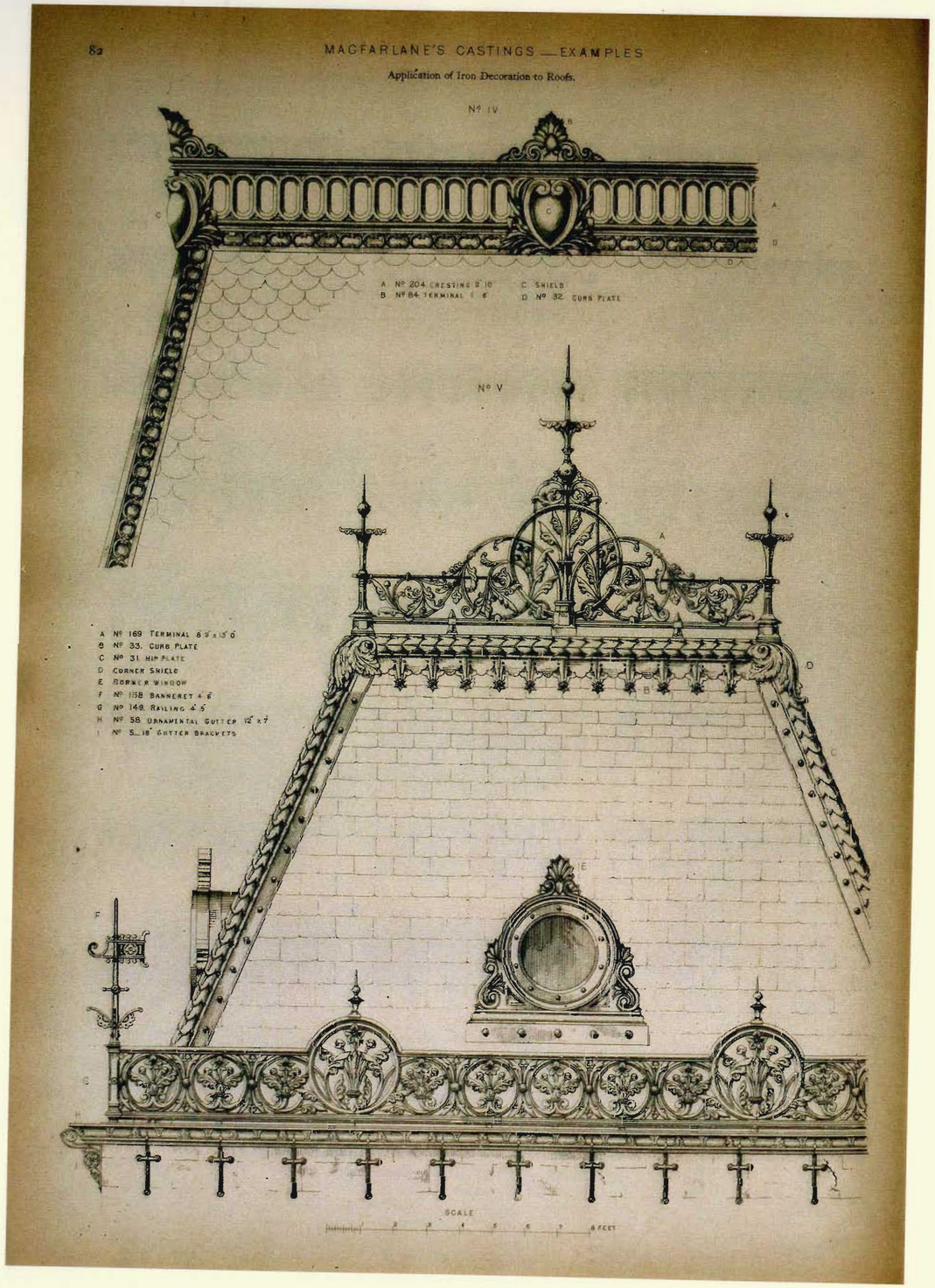


For other designs suitable for Drip and Barge Frets see Section V. Railings.

SCALE 1 2 3 4 FEET

MACFARLANE'S CASTINGS — EXAMPLES

Application of Iron Decoration to Roofs.



SECTION IV.—TERMINALS.

FOR ROOFS, SPIRES, TURRETS AND BUILDING DECORATION.

There is, perhaps, no section of our manufactures that better illustrates the vast improvements we have introduced in ornamental Castings than our Terminals, imparting, as they do, refreshing points of interest to the Architecture, at a comparatively trifling cost. The wide range of designs in our Terminals, and other Sections, gives facilities for an endless variety of combinations, suited to every taste and requirement.

Please insert in Specification "**To be Macfarlane's Castings, from Saracen Foundry, Glasgow,**" to prevent an inferior article being supplied.

Terminals, Finials, Crosses, Bannerets, and Weathervanes, ...pages 84–161
Arches, ...page 162
Spire Coronals and Turrets, ... „ 163
Clock Towers and Belfries, ...pages 164–165
Flagstaffs and Flagstaff Bases, ...pages 166–167
Examples, ... „ 167–171
Also other examples at end of Catalogue.

The Illustrations are arranged in the order of their heights,

DIRECTIONS FOR ORDERING.

State the No. and size, and, if necessary, send a rough sketch of the part the Terminal is to be attached to, stating whether wood or stone, and we will furnish the whole ready for fitting up. The following examples show the simplest method of ordering:—

5 No. 23 Terminals 3' 6", Arms 4 ways, with batts for fixing to stone.

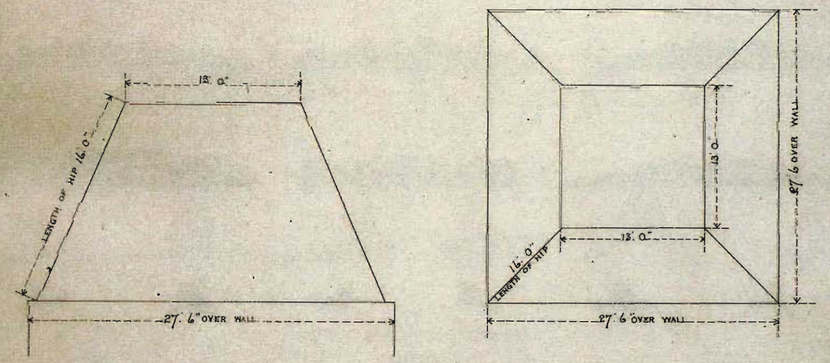
3 No. 137 Terminals 3' 0", Arms 4 ways, with snugs for fixing to wood.

2 No. 30 Terminals 4' 0", with screw for fixing to wood.

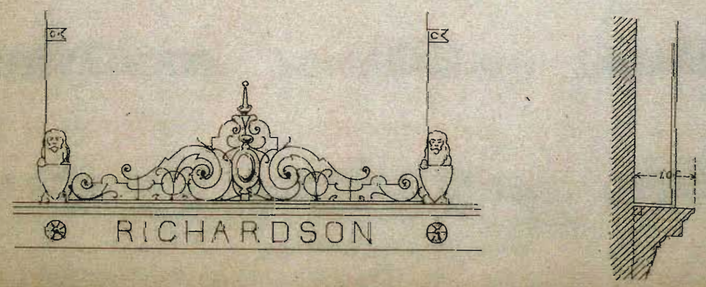
1 No. 62 Weathervane 9' 9", with bolt and nut 6' 0" long for fixing to timbers.

1 No. 445 Terminal 6' 0" x 3' 3" combined with No. 30 Curb Plate 10¼" to fix to wedge roof as full size section herewith.

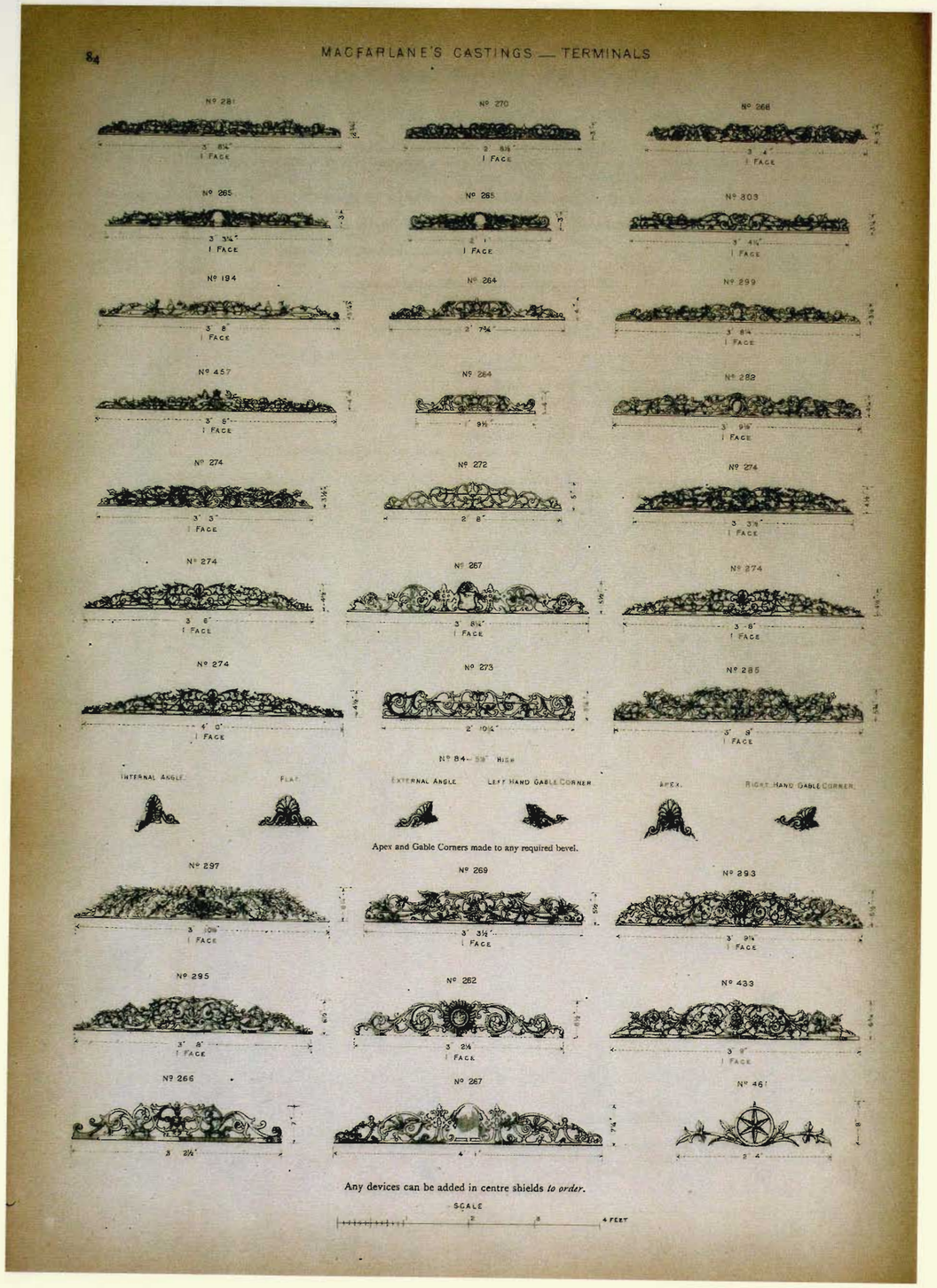
2 Sets of ironwork for Mansard Roofs, each consisting of No. 169 Terminals 8' 9" x 15' 0", one face, for 4 sides of plat, No. 33 Curb Plate 20½" and No. 31 Hip Plate 12⅜" x 12⅜" with Corner Shields, 4 Dormer Windows 5' 8" x 5' 6", No. 149 Railing 4' 5" one face, for 4 sides on top of wall, with No. 158 Bannerets 4' 6" on suitable standards at corners, No. 58 Gutter 12" x 7" with No. 5—18" Gutter Brackets, as sketch and full size sections at curb and at eaves—(see also Example No. V., page 82).



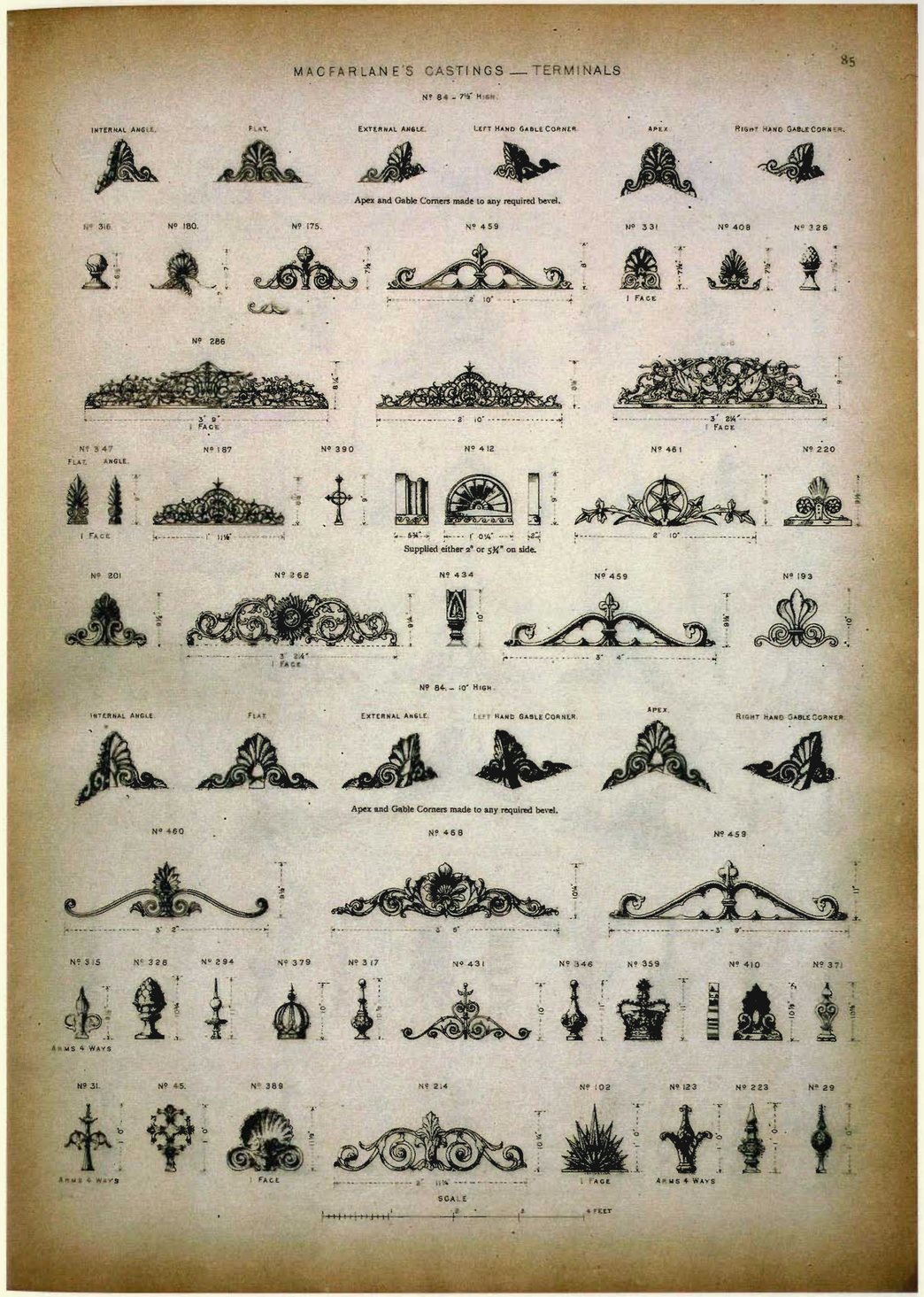
1 Set of ironwork for Shop Cornice, consisting of No. 438 Terminal 4' 10" x 15' 0" with No. 428 Terminal 9' 6" at each end, all having secure fixings to wood cornice and stone wall. Also 10 Sign Letters 1' 0" high, to read thus—RICHARDSON—and 2 Pateras 11" diameter, with screw holes for fixing to wood signboard as sketch.

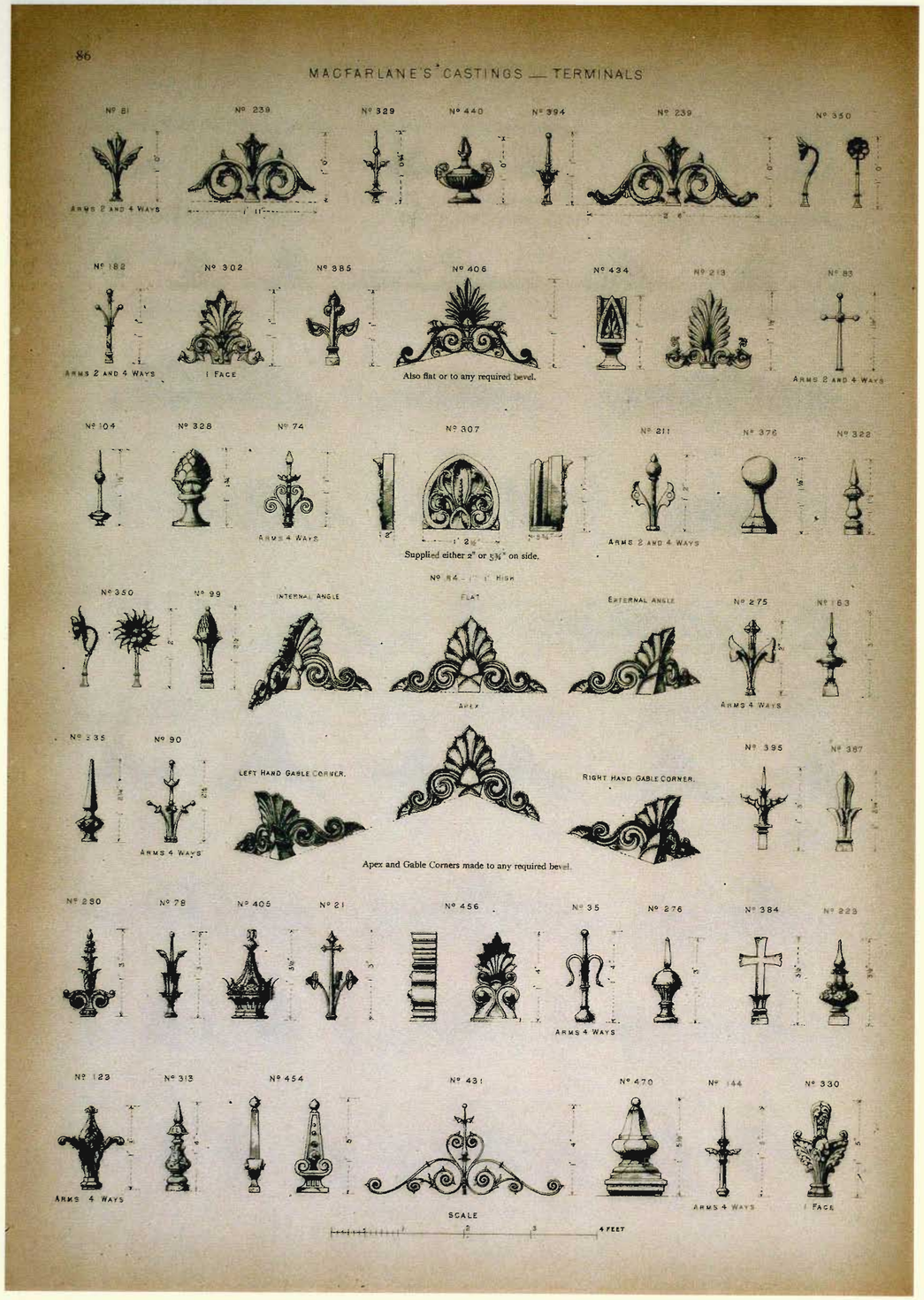


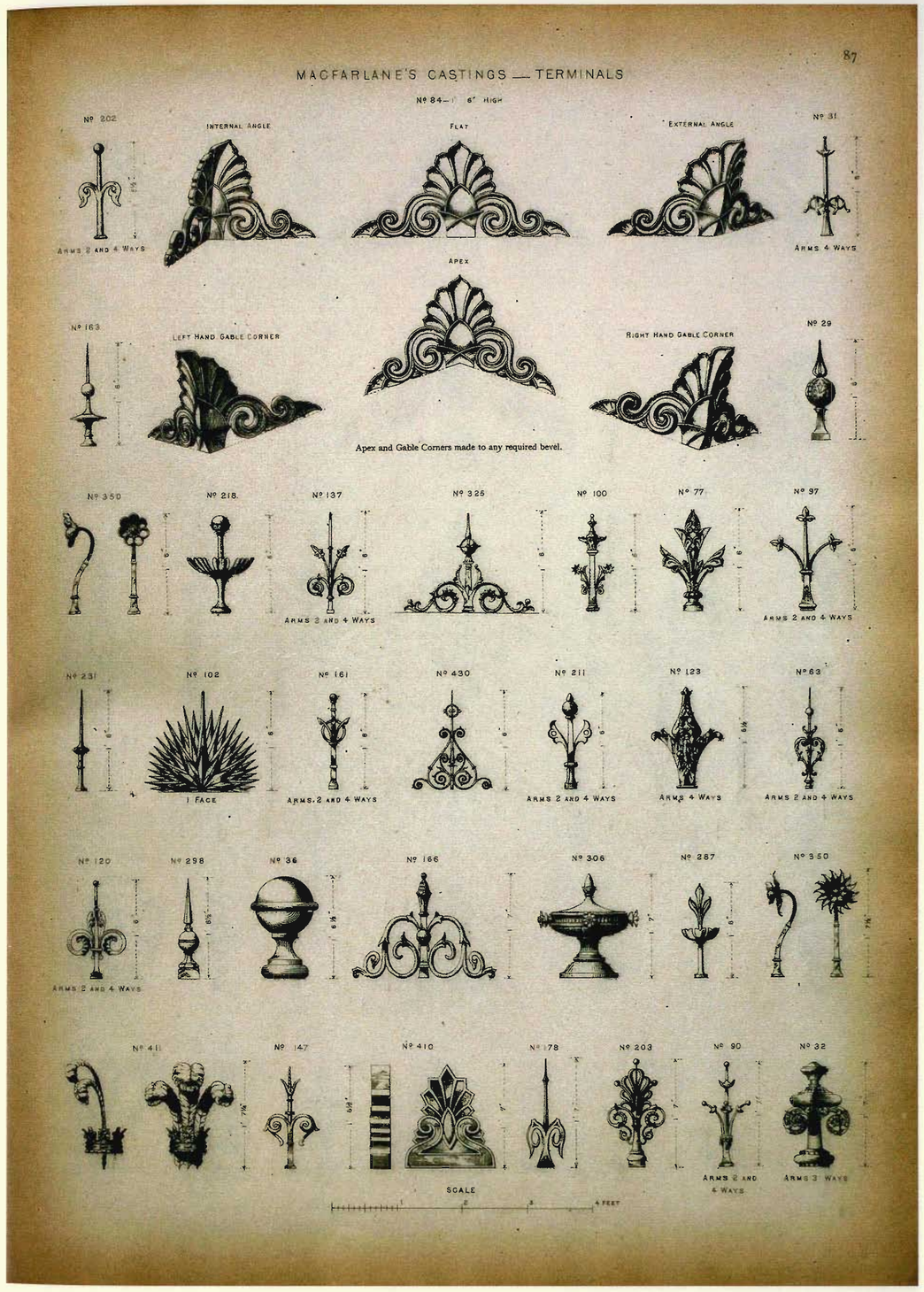
MACFARLANE'S CASTINGS — TERMINALS

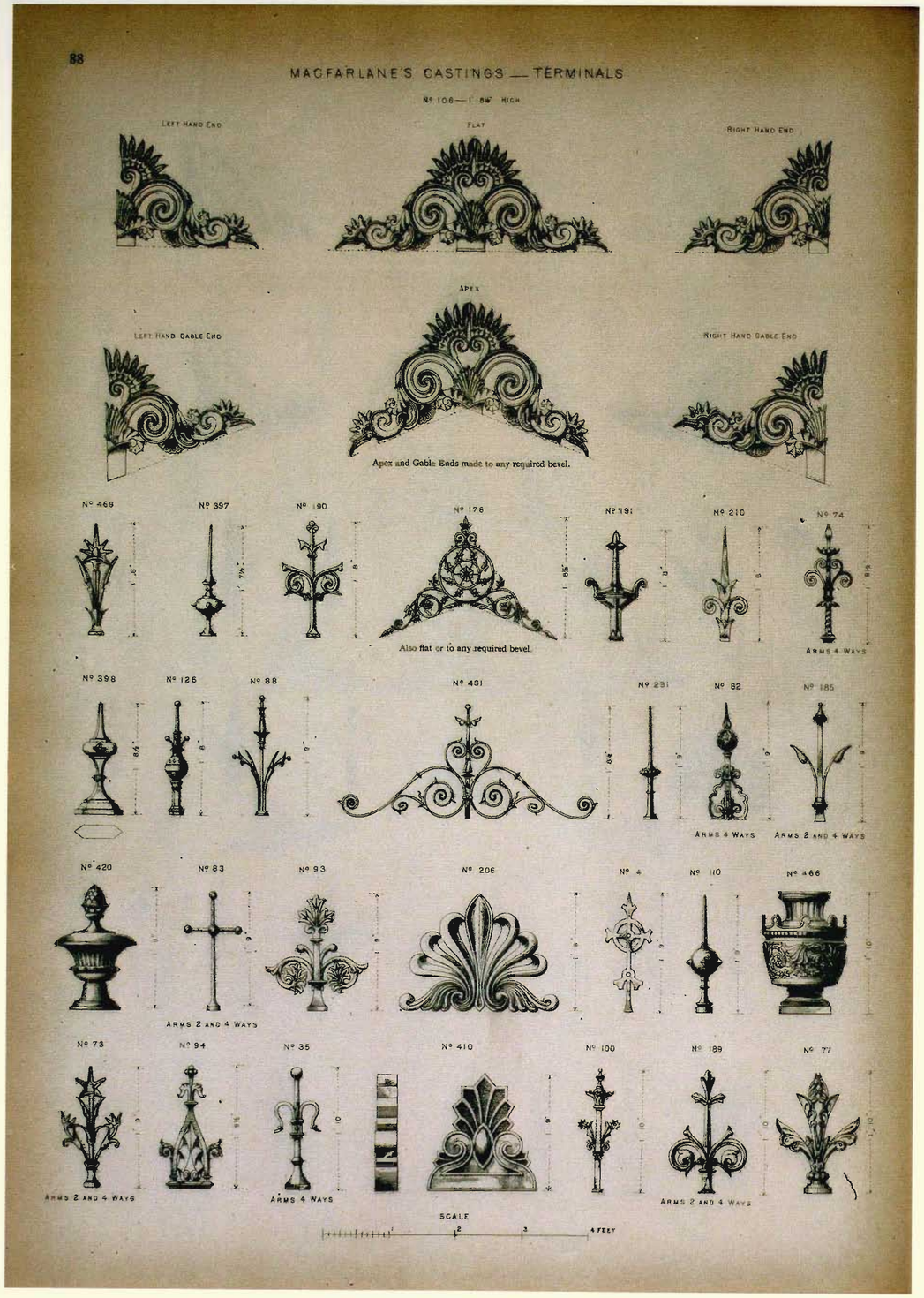


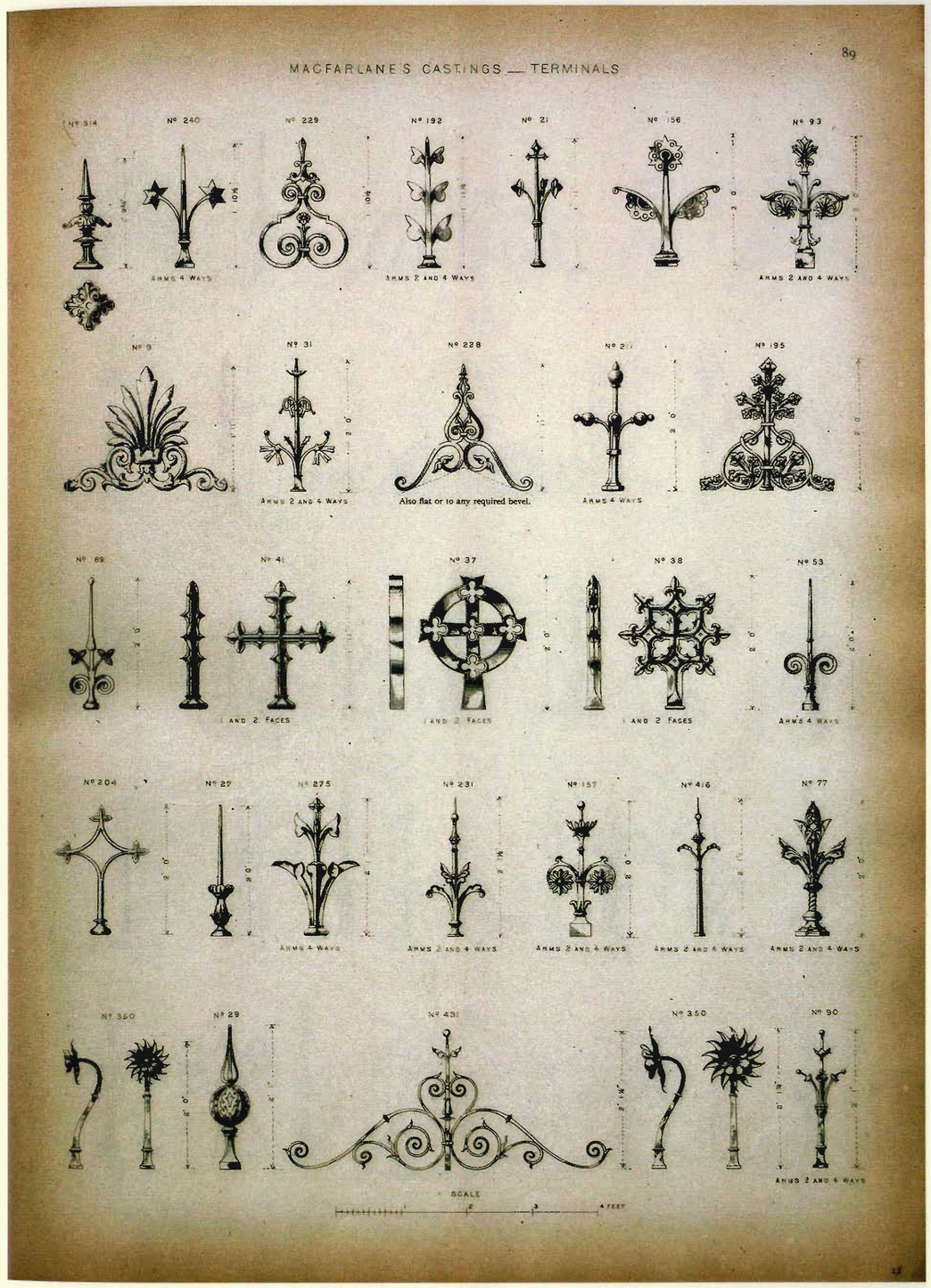
MACFARLANE'S CASTINGS — TERMINALS

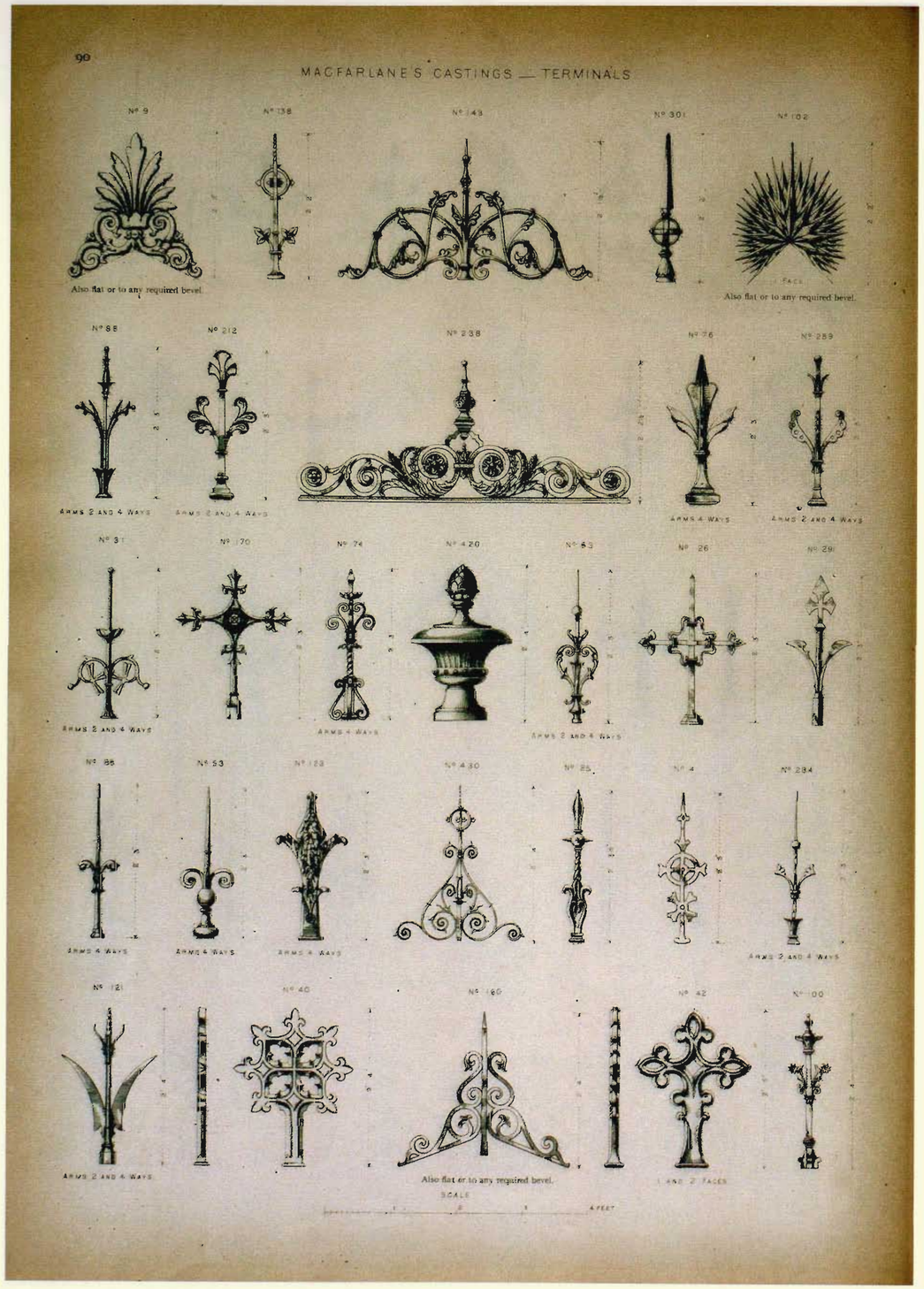


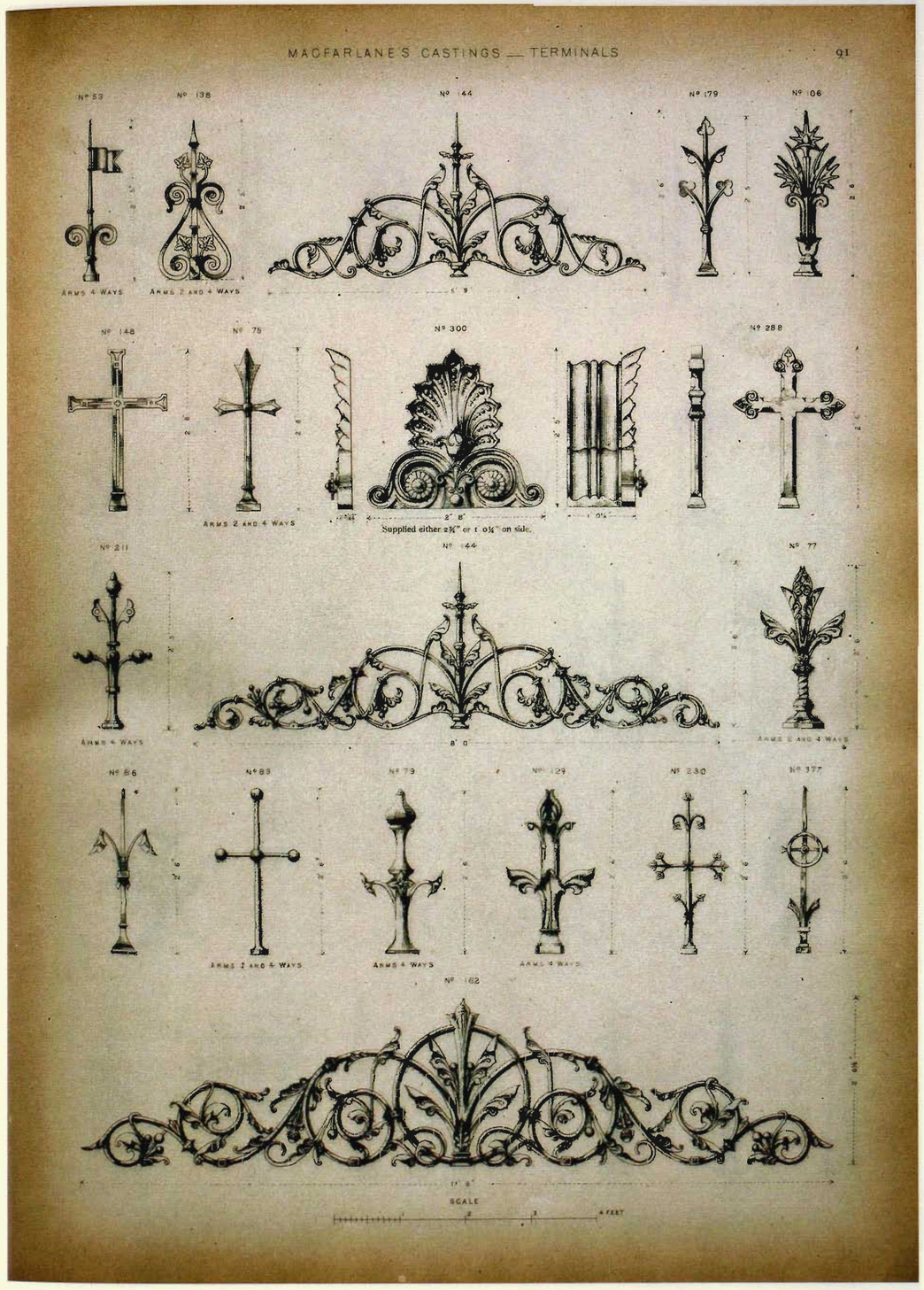

86
MACFARLANE'S CASTINGS — TERMINALS
Nº 81
Nº 239
Nº 329
Nº 440
Nº 394
Nº 239
Nº 350
ARMS 2 AND 4 WAYS
Nº 182
Nº 302
Nº 385
Nº 406
Nº 434
Nº 213
Nº 83
ARMS 2 AND 4 WAYS
1 FACE
Also flat or to any required bevel.
ARMS 2 AND 4 WAYS
Nº 104
Nº 328
Nº 74
Nº 307
Nº 211
Nº 376
Nº 322
ARMS 4 WAYS
Supplied either 2" or 5⅜" on side.
ARMS 2 AND 4 WAYS
Nº 84 — 1' 6" High
Nº 350
Nº 99
INTERNAL ANGLE
FLAT
EXTERNAL ANGLE
Nº 275
Nº 163
APEX
ARMS 4 WAYS
Nº 335
Nº 90
LEFT HAND GABLE CORNER.
RIGHT HAND GABLE CORNER.
Nº 395
Nº 387
ARMS 4 WAYS
Apex and Gable Corners made to any required bevel.
Nº 280
Nº 78
Nº 405
Nº 21
Nº 456
Nº 35
Nº 276
Nº 384
Nº 223
ARMS 4 WAYS
Nº 123
Nº 313
Nº 454
Nº 431
Nº 470
Nº 144
Nº 330
ARMS 4 WAYS
1 FACE
SCALE
4 FEET

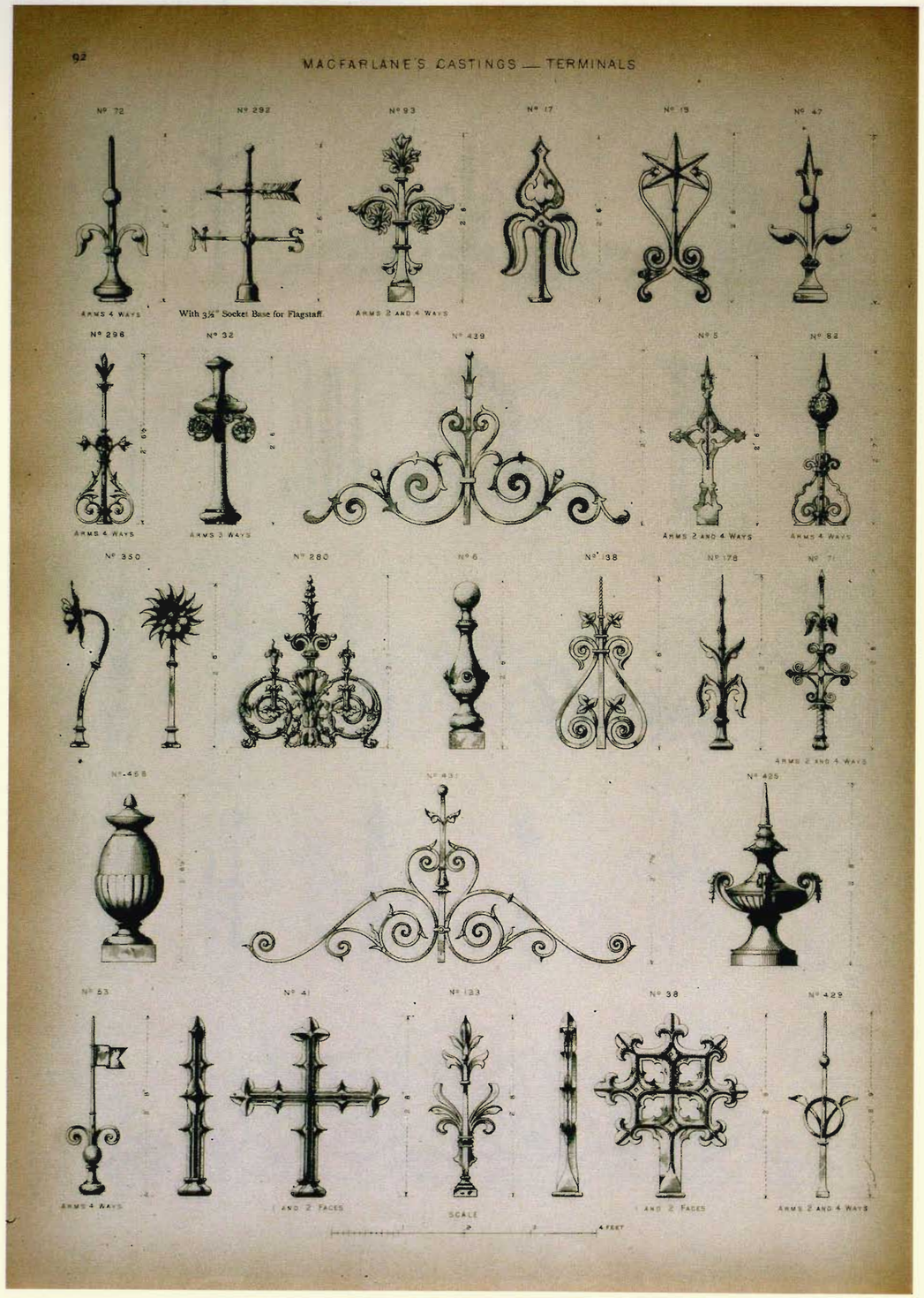

87
MACFARLANE'S CASTINGS — TERMINALS
Nº 84 — 1' 6" HIGH
Nº 202
INTERNAL ANGLE
FLAT
EXTERNAL ANGLE
Nº 31
ARMS 2 AND 4 WAYS
ARMS 4 WAYS
APEX
Nº 163
LEFT HAND GABLE CORNER
RIGHT HAND GABLE CORNER
Nº 29
Apex and Gable Corners made to any required bevel.
Nº 350
Nº 218.
Nº 137
Nº 325
Nº 100
Nº 77
Nº 97
ARMS 2 AND 4 WAYS
ARMS 2 AND 4 WAYS
Nº 231
Nº 102
Nº 161
Nº 430
Nº 211
Nº 123
Nº 63
1 FACE
ARMS 2 AND 4 WAYS
ARMS 2 AND 4 WAYS
ARMS 4 WAYS
ARMS 2 AND 4 WAYS
Nº 120
Nº 298
Nº 36
Nº 166
Nº 306
Nº 287
Nº 350
ARMS 2 AND 4 WAYS
Nº 41
Nº 147
Nº 410
Nº 178
Nº 203
Nº 90
Nº 32
SCALE
4 FEET
ARMS 2 AND 4 WAYS
ARMS 3 WAYS

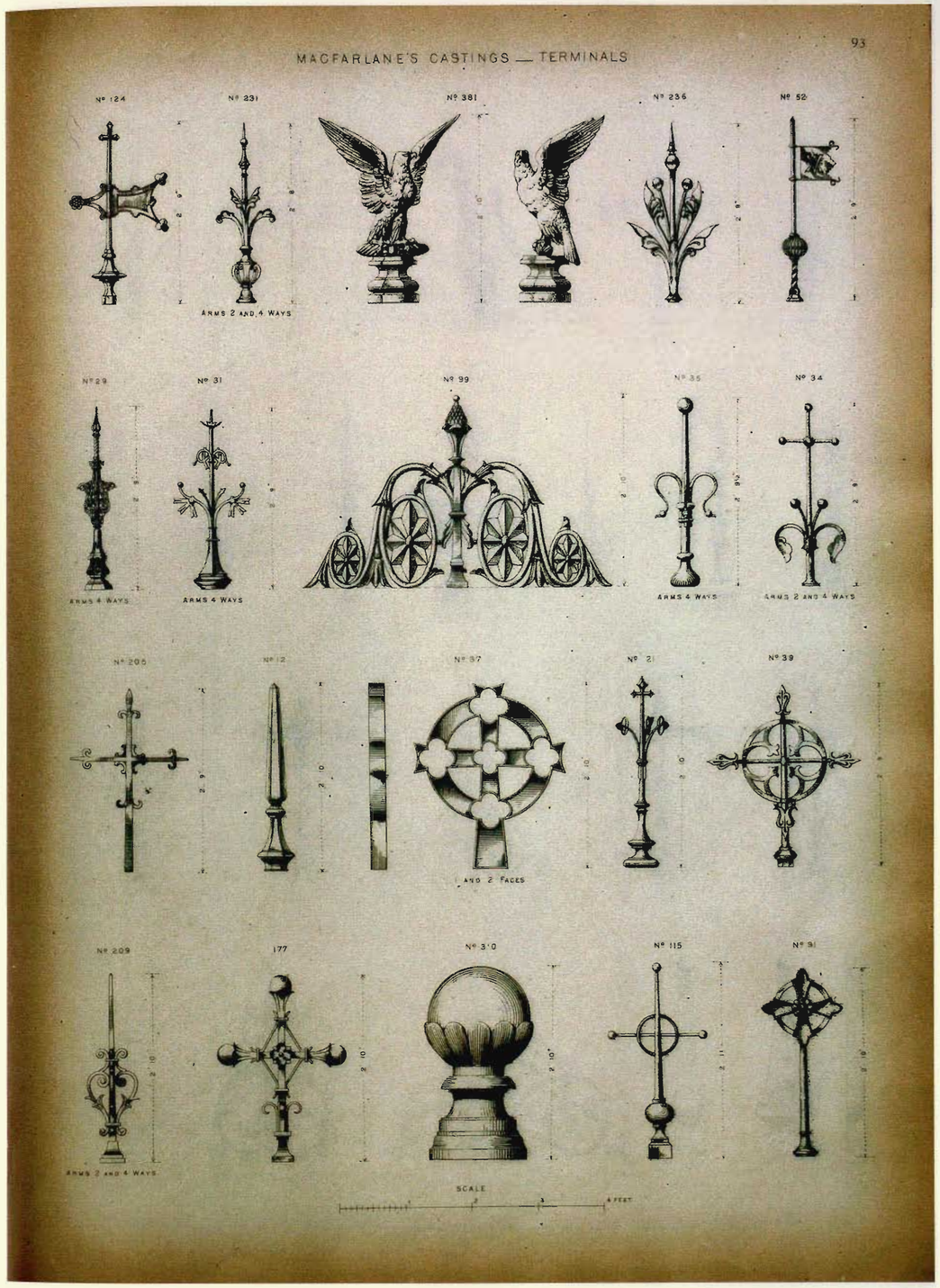

88
MACFARLANE'S CASTINGS — TERMINALS
Nº 106 — 1' 8½" HIGH
LEFT HAND END
FLAT
RIGHT HAND END
APEX
LEFT HAND GABLE END
RIGHT HAND GABLE END
Apex and Gable Ends made to any required bevel.
Nº 469
Nº 397
Nº 190
Nº 176
Nº 191
Nº 210
Nº 74
Also flat or to any required bevel.
ARMS 4 WAYS
Nº 398
Nº 126
Nº 88
Nº 431
Nº 231
Nº 82
Nº 185
ARMS 4 WAYS
ARMS 2 AND 4 WAYS
Nº 420
Nº 83
Nº 93
Nº 206
Nº 4
Nº 110
Nº 466
ARMS 2 AND 4 WAYS
Nº 73
Nº 94
Nº 35
Nº 410
Nº 100
Nº 189
Nº 77
ARMS 2 AND 4 WAYS
ARMS 4 WAYS
ARMS 2 AND 4 WAYS
SCALE
1
2
3
4 FEET

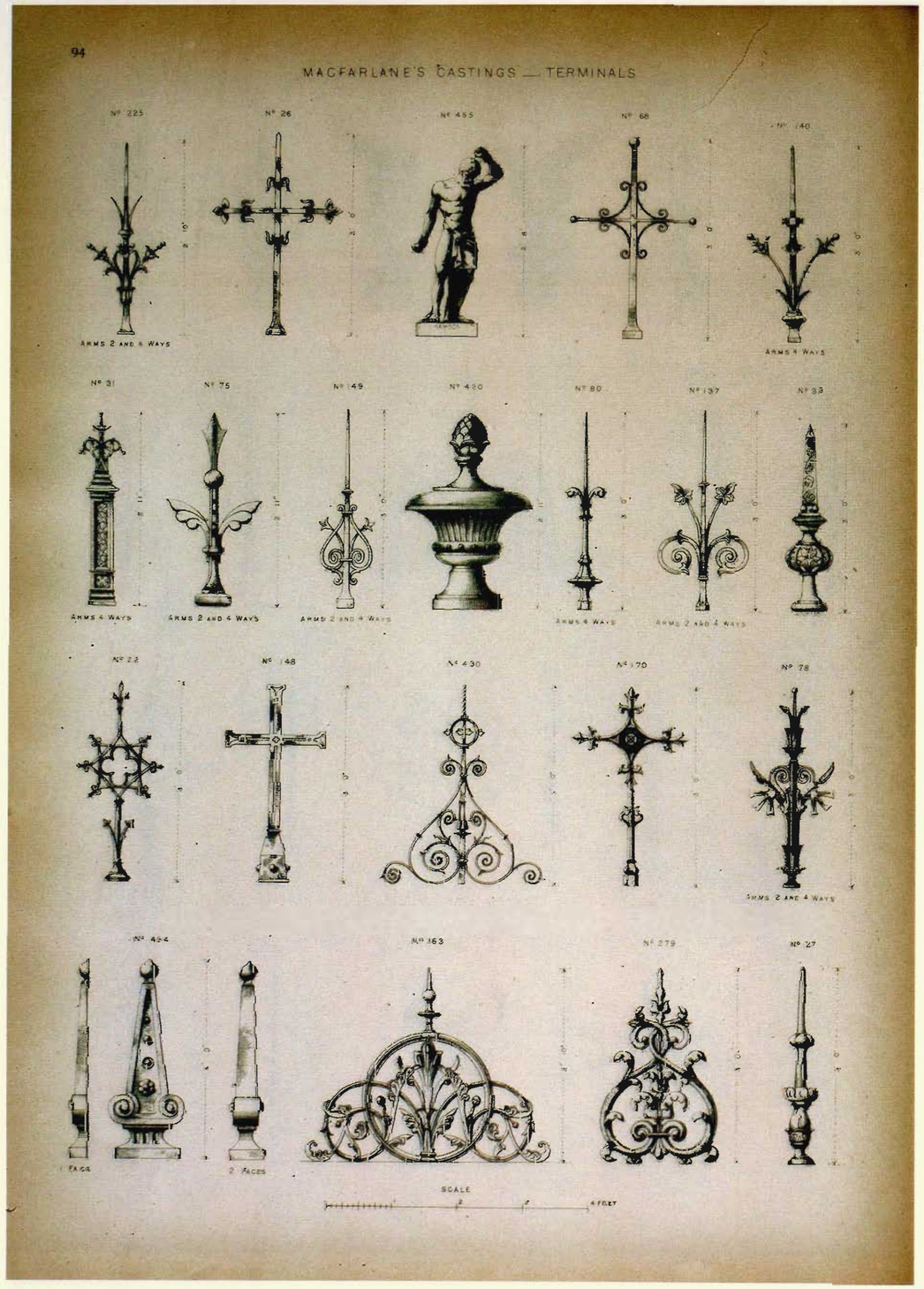

89
MACFARLANE'S CASTINGS — TERMINALS
Nº 314
Nº 240
Nº 229
Nº 192
Nº 21
Nº 156
Nº 93
ARMS 4 WAYS
ARMS 2 AND 4 WAYS
ARMS 2 AND 4 WAYS
Nº 9
Nº 31
Nº 228
Nº 21
Nº 195
ARMS 2 AND 4 WAYS
Also flat or to any required bevel.
ARMS 4 WAYS
Nº 69
Nº 41
Nº 37
Nº 38
Nº 53
1 AND 2 FACES
1 AND 2 FACES
1 AND 2 FACES
ARMS 4 WAYS
Nº 204
Nº 27
Nº 275
Nº 231
Nº 157
Nº 416
Nº 77
ARMS 4 WAYS
ARMS 2 AND 4 WAYS
ARMS 2 AND 4 WAYS
ARMS 2 AND 4 WAYS
ARMS 2 AND 4 WAYS
Nº 350
Nº 29
Nº 431
Nº 350
Nº 90
SCALE
1
2
3
4 FEET
ARMS 2 AND 4 WAYS

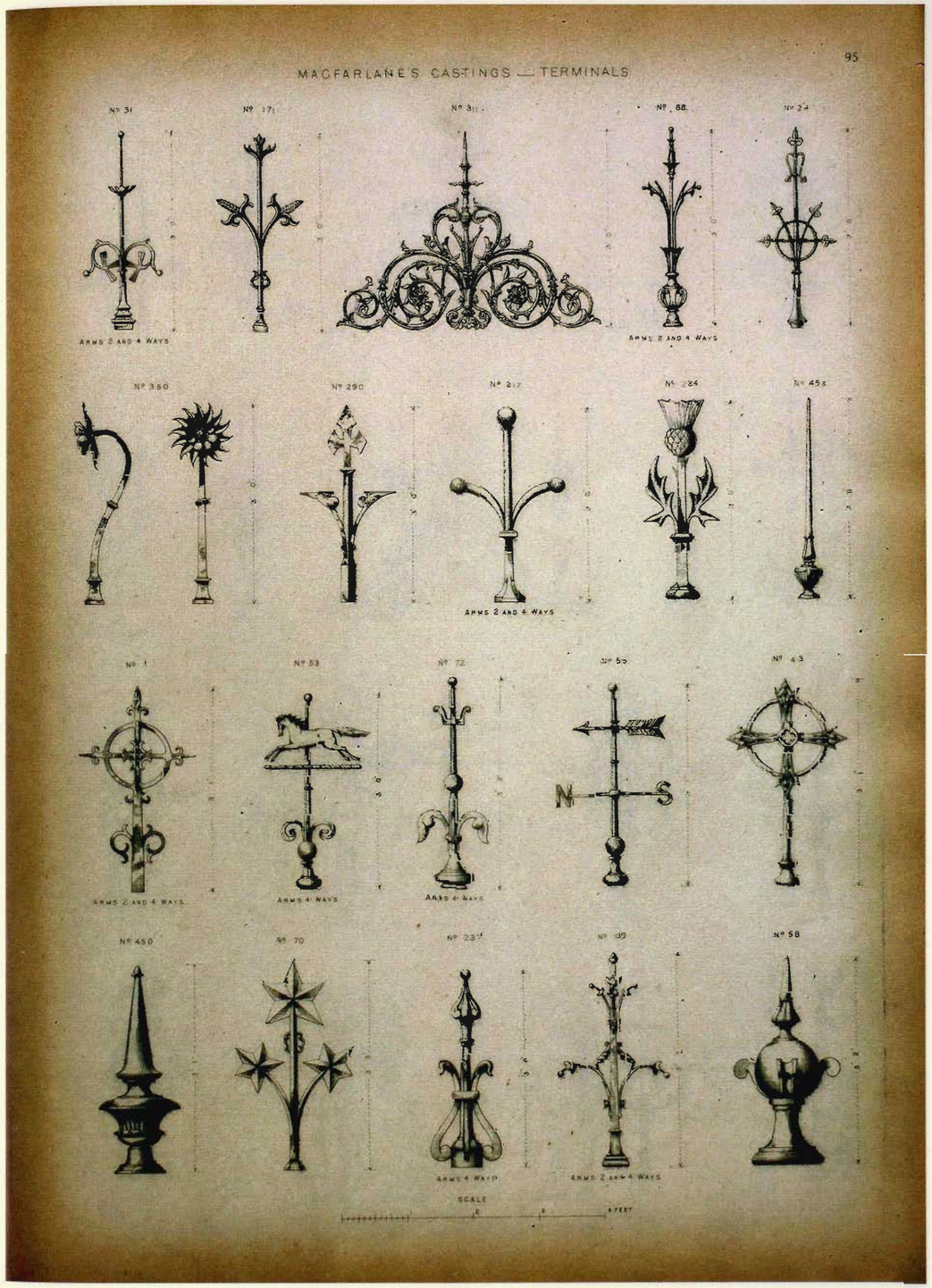

90
MACFARLANE'S CASTINGS — TERMINALS
Nº 9
Nº 138
Nº 143
Nº 301
Nº 102
Also flat or to any required bevel.
Also flat or to any required bevel.
Nº 88
Nº 212
Nº 238
Nº 26
Nº 289
ARMS 2 AND 4 WAYS
ARMS 2 AND 4 WAYS
ARMS 4 WAYS
ARMS 2 AND 4 WAYS
Nº 31
Nº 170
Nº 74
Nº 420
Nº 63
Nº 26
Nº 291
ARMS 2 AND 4 WAYS
ARMS 4 WAYS
ARMS 2 AND 4 WAYS
Nº 86
Nº 53
Nº 123
Nº 430
Nº 85
Nº 4
Nº 284
ARMS 4 WAYS
ARMS 4 WAYS
ARMS 4 WAYS
ARMS 2 AND 4 WAYS
Nº 121
Nº 40
Nº 160
Nº 42
Nº 100
ARMS 2 AND 4 WAYS
Also flat or to any required bevel.
1 AND 2 FACES
SCALE
4 FEET

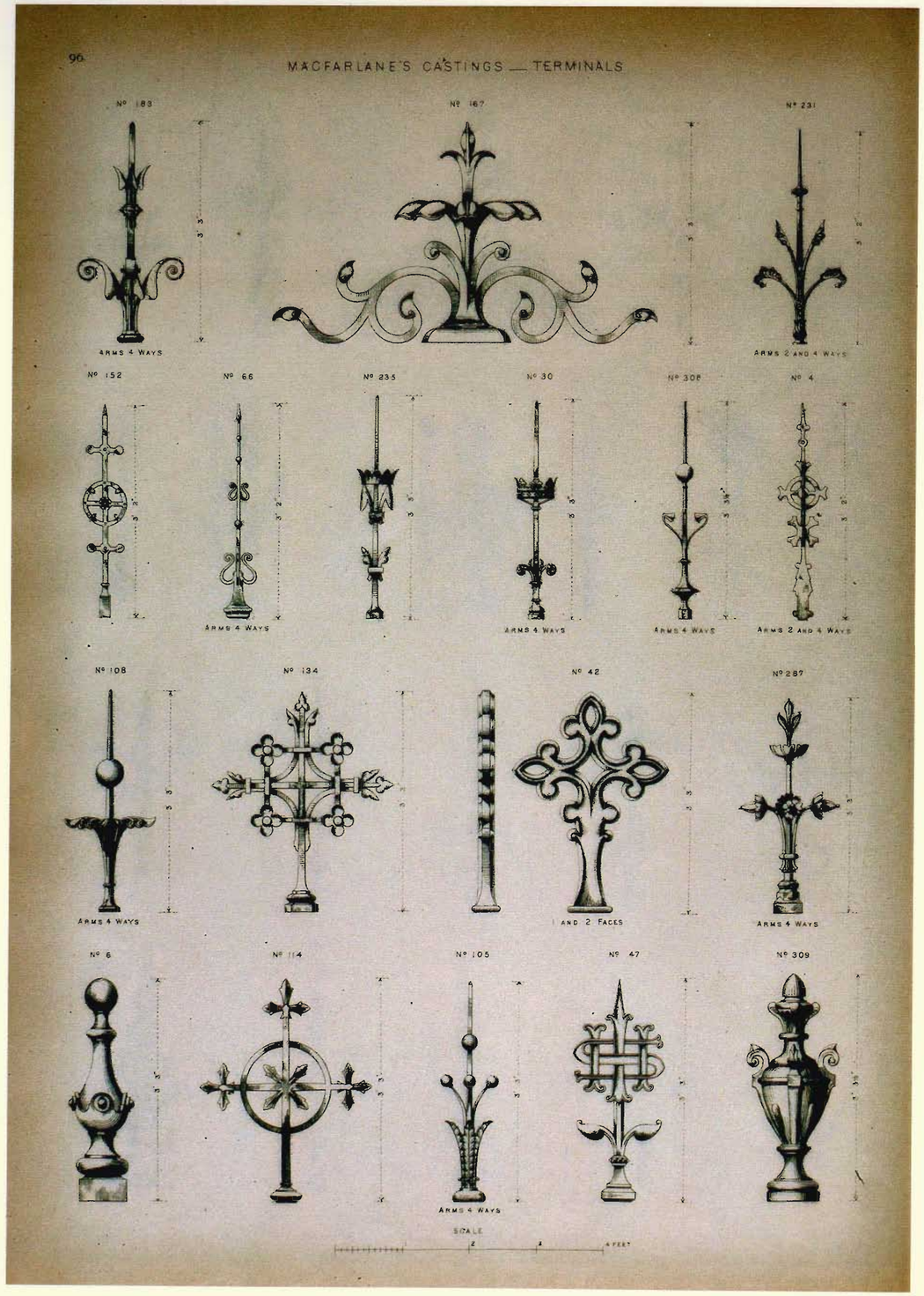

MACFARLANE'S CASTINGS — TERMINALS
91
Nº 53
Nº 138
Nº 44
Nº 179
Nº 106
ARMS 4 WAYS
ARMS 2 AND 4 WAYS
Nº 148
Nº 75
Nº 300
Nº 288
ARMS 2 AND 4 WAYS
Supplied either 2¾" or 1 0¼" on side.
Nº 211
Nº 144
Nº 77
ARMS 4 WAYS
ARMS 2 AND 4 WAYS
Nº 86
Nº 83
Nº 79
Nº 129
Nº 230
Nº 377
ARMS 4 WAYS
ARMS 2 AND 4 WAYS
ARMS 4 WAYS
Nº 182
SCALE
4 FEET

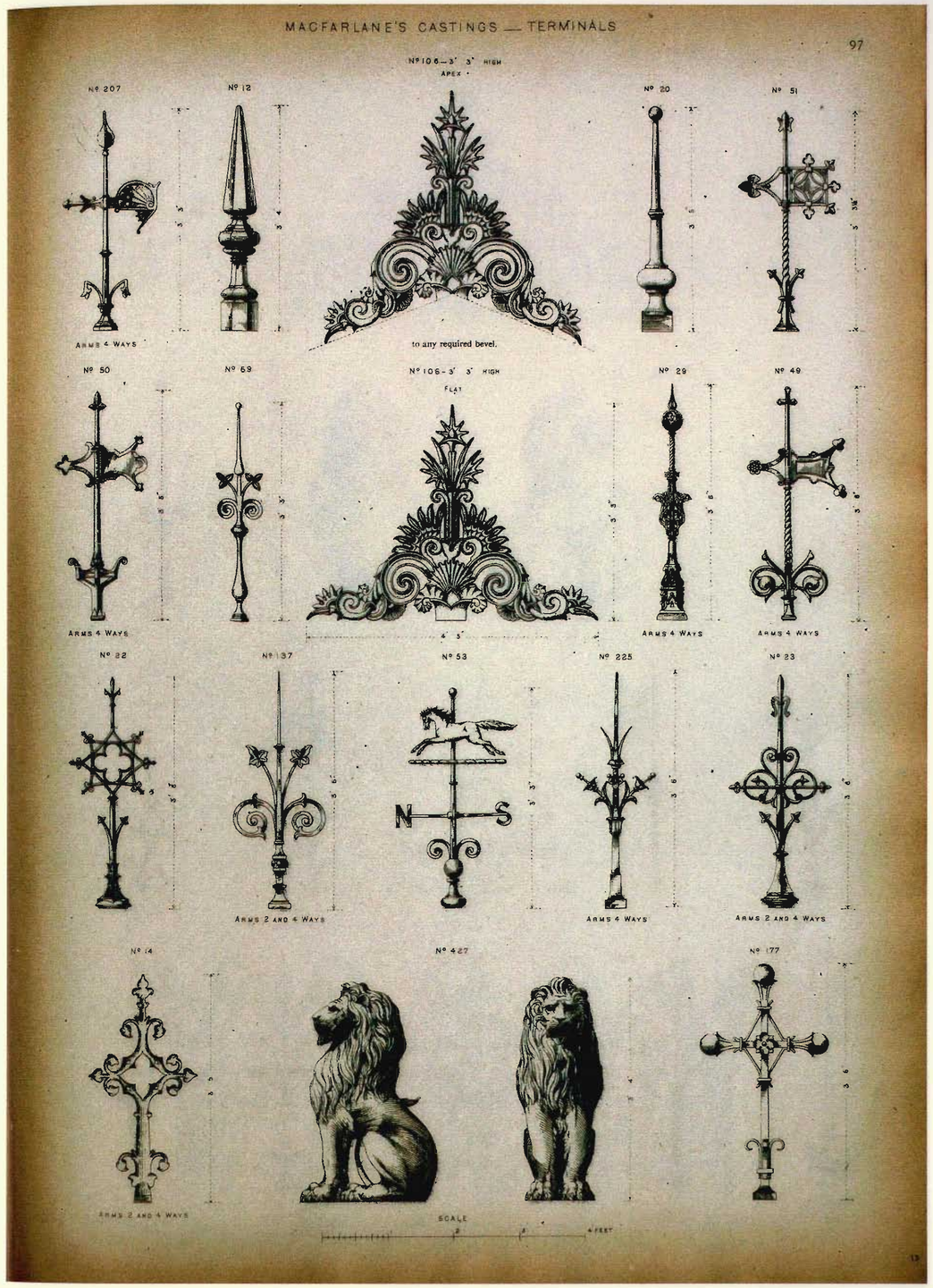

92
MACFARLANE'S CASTINGS — TERMINALS
Nº 72
ARMS 4 WAYS
Nº 292
With 3¼" Socket Base for Flagstaff
Nº 93
ARMS 2 AND 4 WAYS
Nº 17
Nº 15
Nº 47
Nº 296
ARMS 4 WAYS
Nº 32
ARMS 3 WAYS
Nº 439
Nº 5
ARMS 2 AND 4 WAYS
Nº 82
ARMS 4 WAYS
Nº 350
Nº 280
Nº 6
Nº 138
Nº 178
Nº 71
ARMS 2 AND 4 WAYS
Nº 458
Nº 431
Nº 425
Nº 53
ARMS 4 WAYS
Nº 41
1 AND 2 FACES
Nº 133
SCALE
4 FEET
Nº 38
1 AND 2 FACES
Nº 429
ARMS 2 AND 4 WAYS

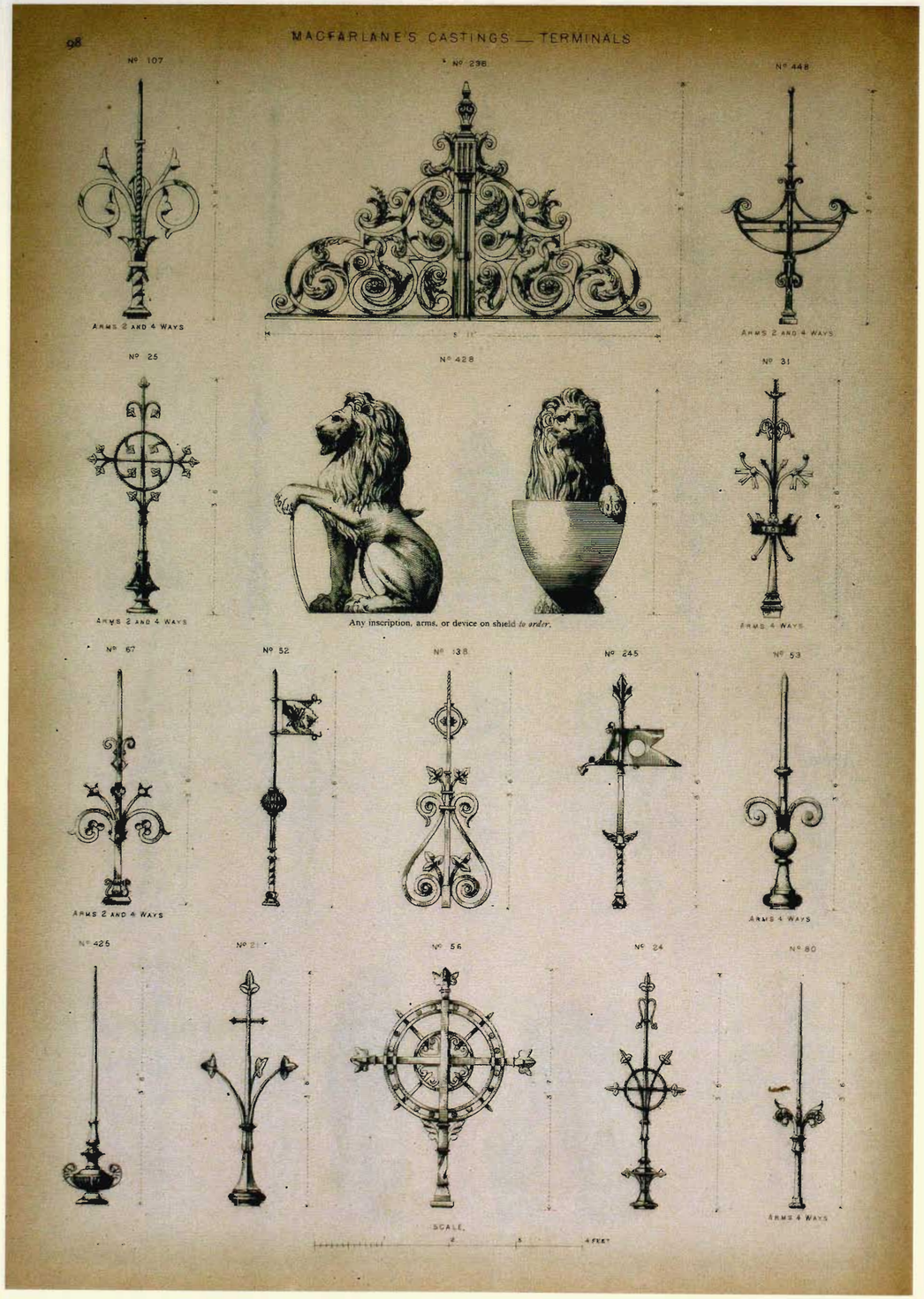

93
MACFARLANE'S CASTINGS — TERMINALS
Nº 124
Nº 231
ARMS 2 AND 4 WAYS
Nº 381
Nº 236
Nº 52
Nº 29
ARMS 4 WAYS
Nº 31
ARMS 4 WAYS
Nº 99
Nº 35
ARMS 4 WAYS
Nº 34
ARMS 2 AND 4 WAYS
Nº 205
Nº 12
Nº 37
1 AND 2 FACES
Nº 21
Nº 39
Nº 209
ARMS 2 AND 4 WAYS
177
Nº 310
SCALE
4 FEET
Nº 115
Nº 91

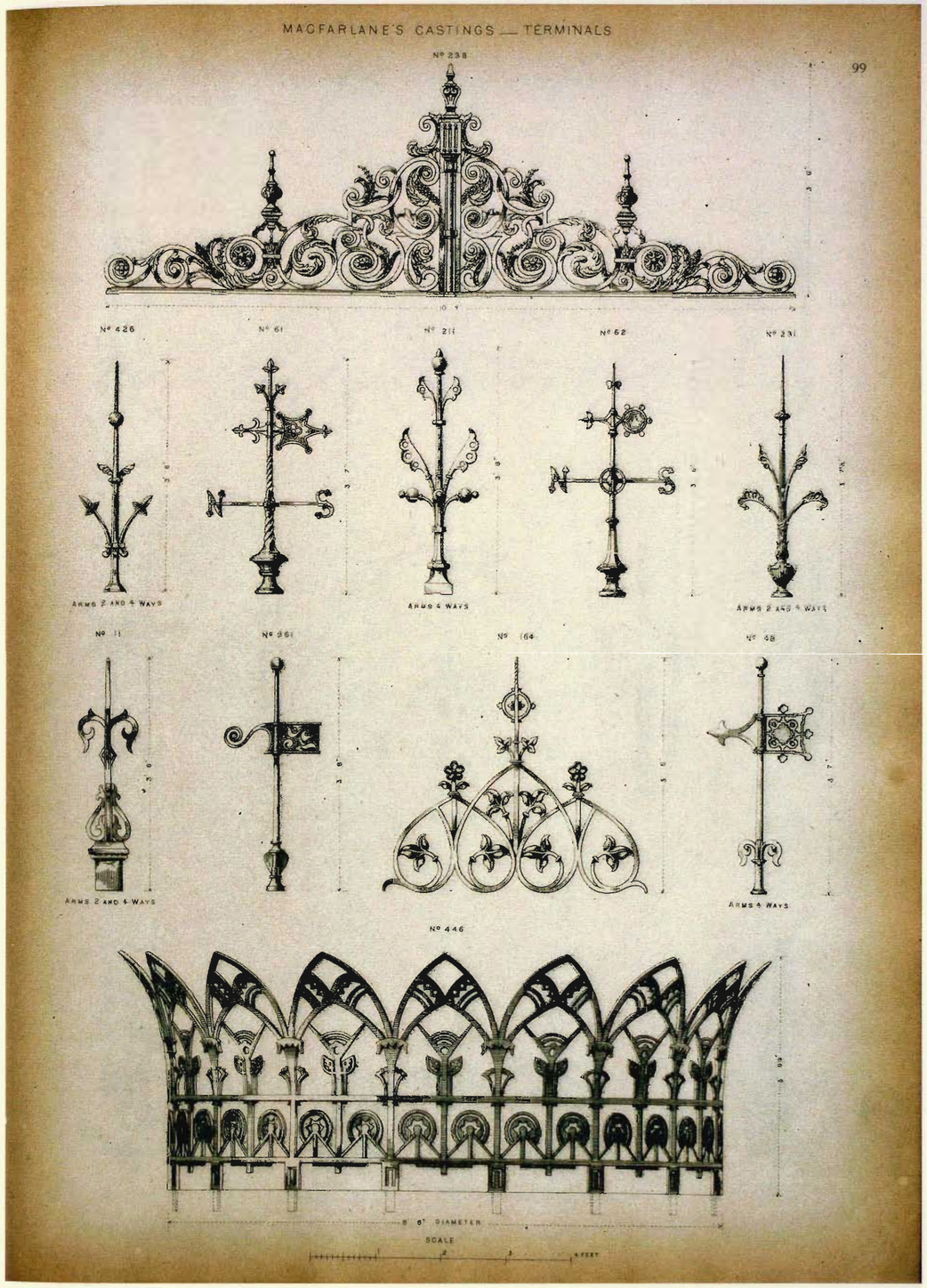

94
MACFARLANE'S CASTINGS — TERMINALS
No 225
No 26
No 455
No 68
No 140
ARMS 2 AND 4 WAYS
ARMS 4 WAYS
No 31
No 75
No 149
No 480
No 80
No 137
No 38
ARMS 4 WAYS
ARMS 2 AND 4 WAYS
ARMS 2 AND 4 WAYS
ARMS 4 WAYS
ARMS 2 AND 4 WAYS
No 22
No 148
No 430
No 170
No 78
ARMS 2 AND 4 WAYS
No 454
No 363
No 279
No 27
1 FACE
2 FACES
SCALE
4 FEET

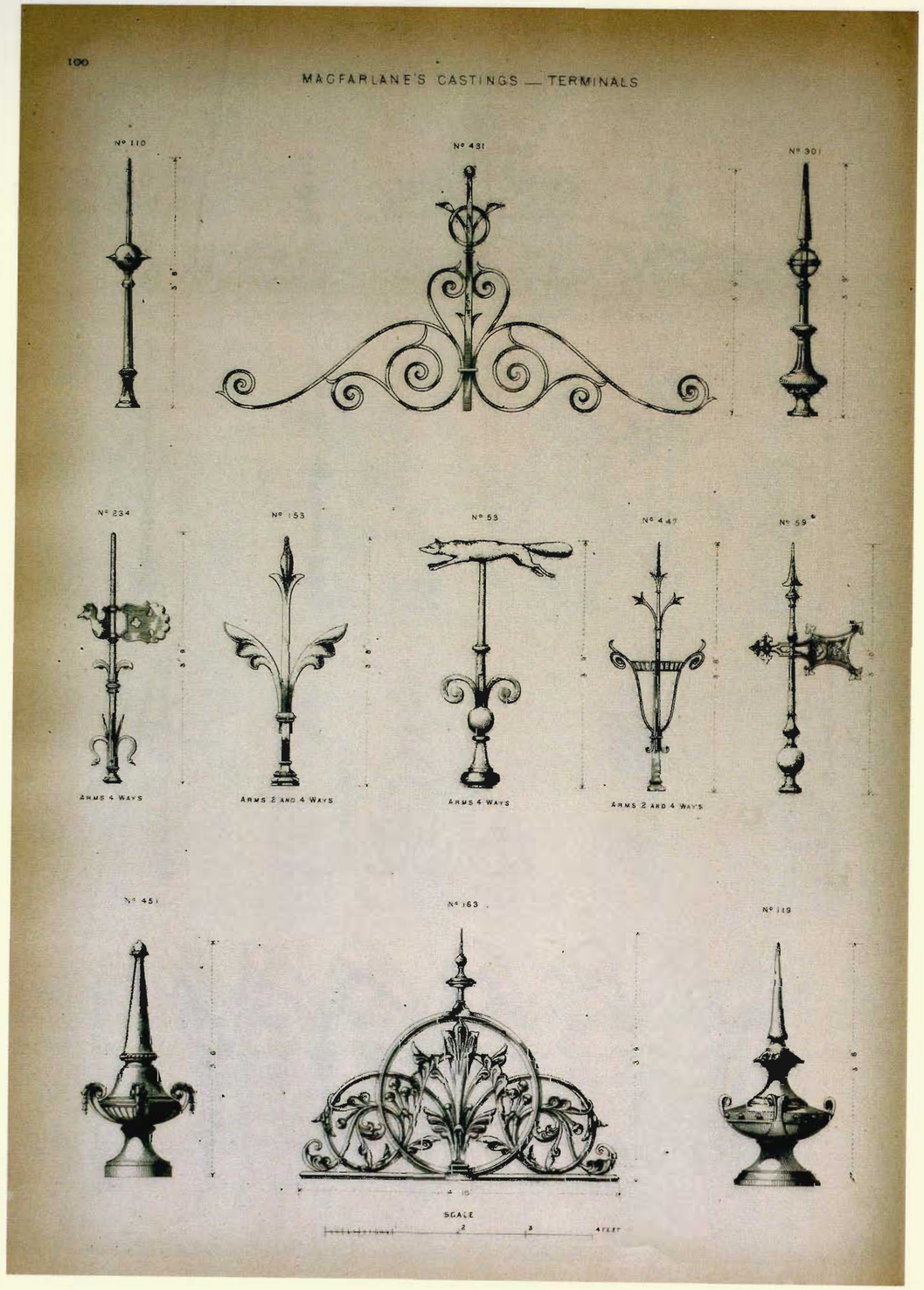

95
MACFARLANE'S CASTINGS — TERMINALS
No 31
No 171
No 311
No 88
No 24
ARMS 2 AND 4 WAYS
ARMS 2 AND 4 WAYS
No 350
No 290
No 217
No 224
No 45x
ARMS 2 AND 4 WAYS
No 1
No 53
No 72
No 59
No 43
ARMS 2 AND 4 WAYS
ARMS 4 WAYS
ARMS 4 WAYS
N
S
No 450
No 70
No 237
No 89
No 58
ARMS 4 WAYS
ARMS 2 AND 4 WAYS
SCALE
4 FEET

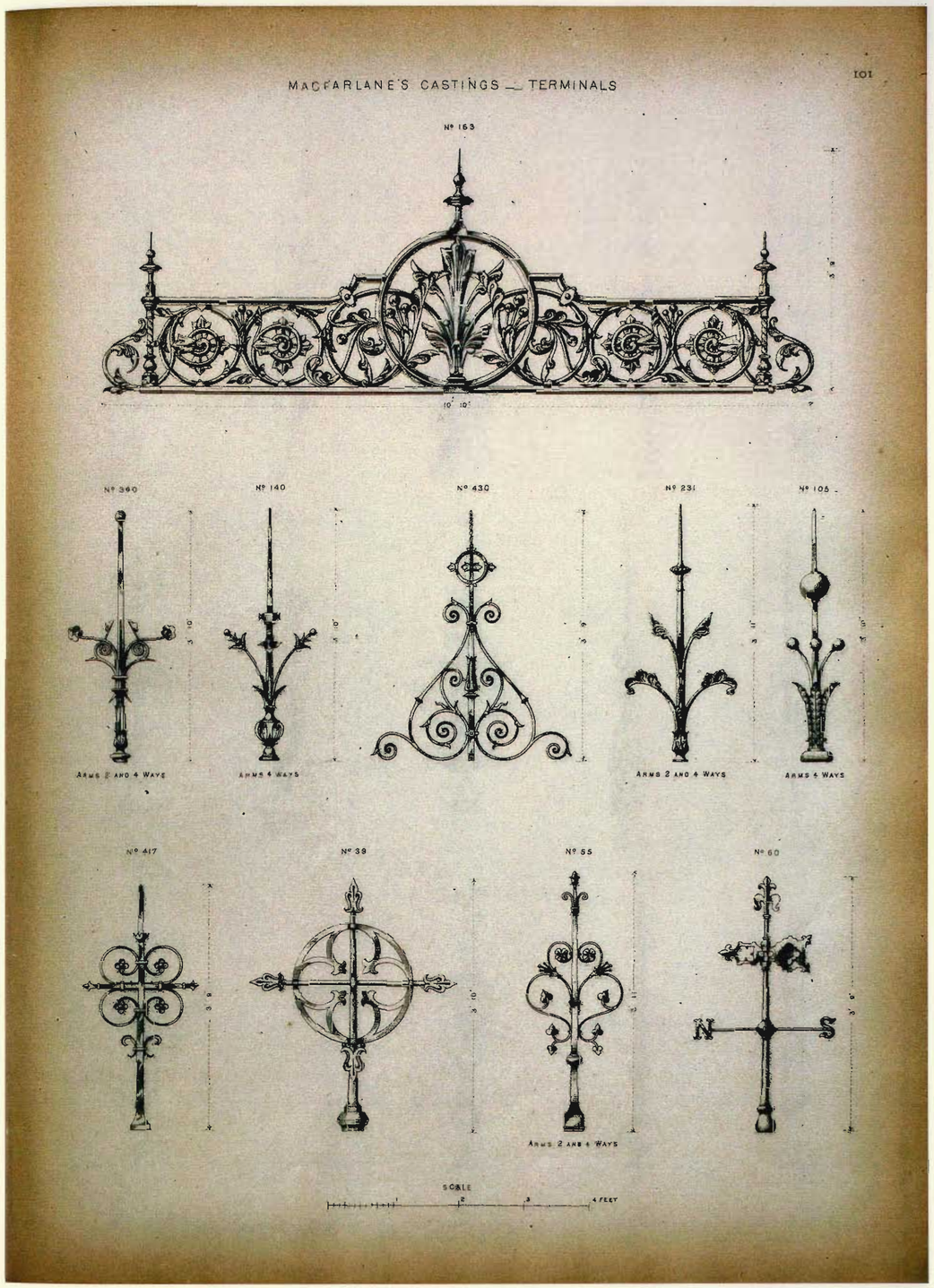

96
MACFARLANE'S CASTINGS — TERMINALS
Nº 183
ARMS 4 WAYS
Nº 167
Nº 231
ARMS 2 AND 4 WAYS
Nº 152
Nº 66
ARMS 4 WAYS
Nº 235
Nº 30
ARMS 4 WAYS
Nº 308
ARMS 4 WAYS
Nº 4
ARMS 2 AND 4 WAYS
Nº 108
ARMS 4 WAYS
Nº 134
Nº 42
1 AND 2 FACES
Nº 287
ARMS 4 WAYS
Nº 6
Nº 114
Nº 105
ARMS 4 WAYS
Nº 47
Nº 309
SCALE
2
4 FEET

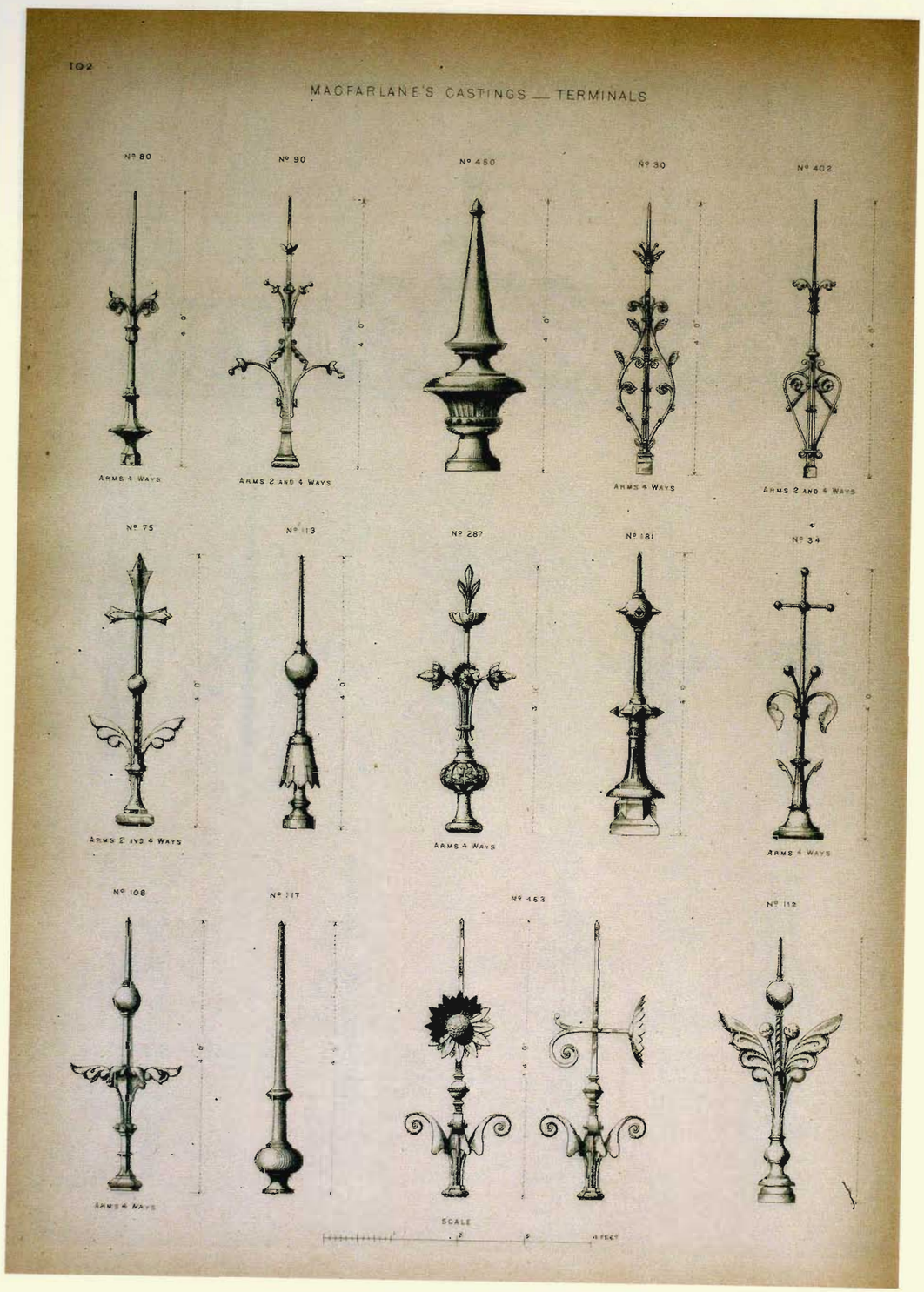

MACFARLANE'S CASTINGS — TERMINALS
97
Nº 207
ARMS 4 WAYS
Nº 12
Nº 106 – 3' 3" HIGH
APEX
to any required bevel.
Nº 20
Nº 51
Nº 50
ARMS 4 WAYS
Nº 69
Nº 106 – 3' 3" HIGH
FLAT
4' 5"
Nº 29
ARMS 4 WAYS
Nº 49
ARMS 4 WAYS
Nº 22
Nº 137
ARMS 2 AND 4 WAYS
Nº 53
N
S
Nº 225
ARMS 4 WAYS
Nº 23
ARMS 2 AND 4 WAYS
Nº 14
ARMS 2 AND 4 WAYS
Nº 427
SCALE
2
4 FEET
Nº 177

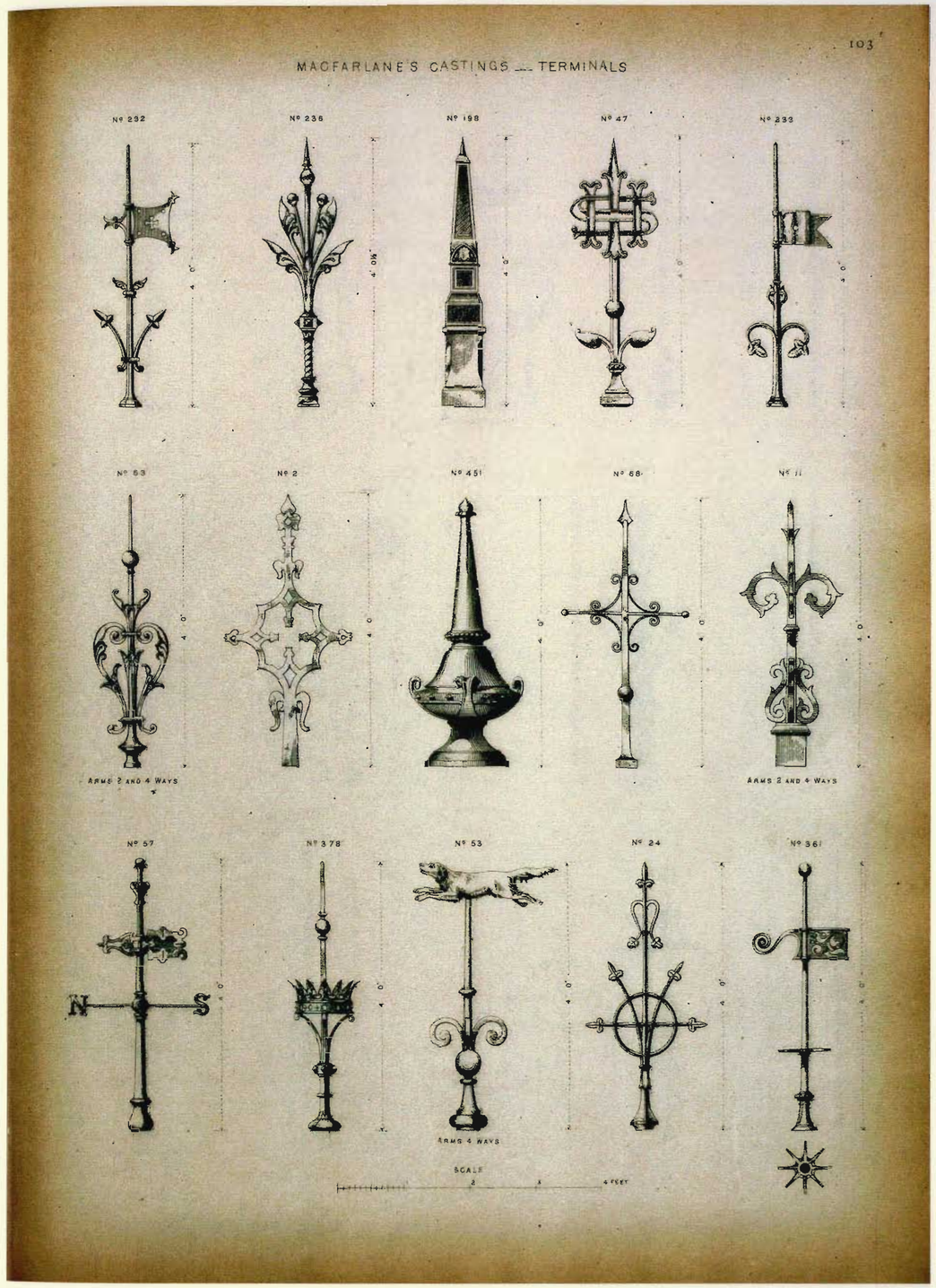

98
MACFARLANE'S CASTINGS — TERMINALS
Nº 107
ARMS 2 AND 4 WAYS
Nº 25
ARMS 2 AND 4 WAYS
Nº 67
ARMS 2 AND 4 WAYS
Nº 425
Nº 298
Nº 428
Any inscription, arms, or device on shield to order.
Nº 52
Nº 138
Nº 245
Nº 21
Nº 56
Nº 24
SCALE
Nº 448
ARMS 2 AND 4 WAYS
Nº 31
ARMS 4 WAYS
Nº 53
ARMS 4 WAYS
Nº 80
ARMS 4 WAYS

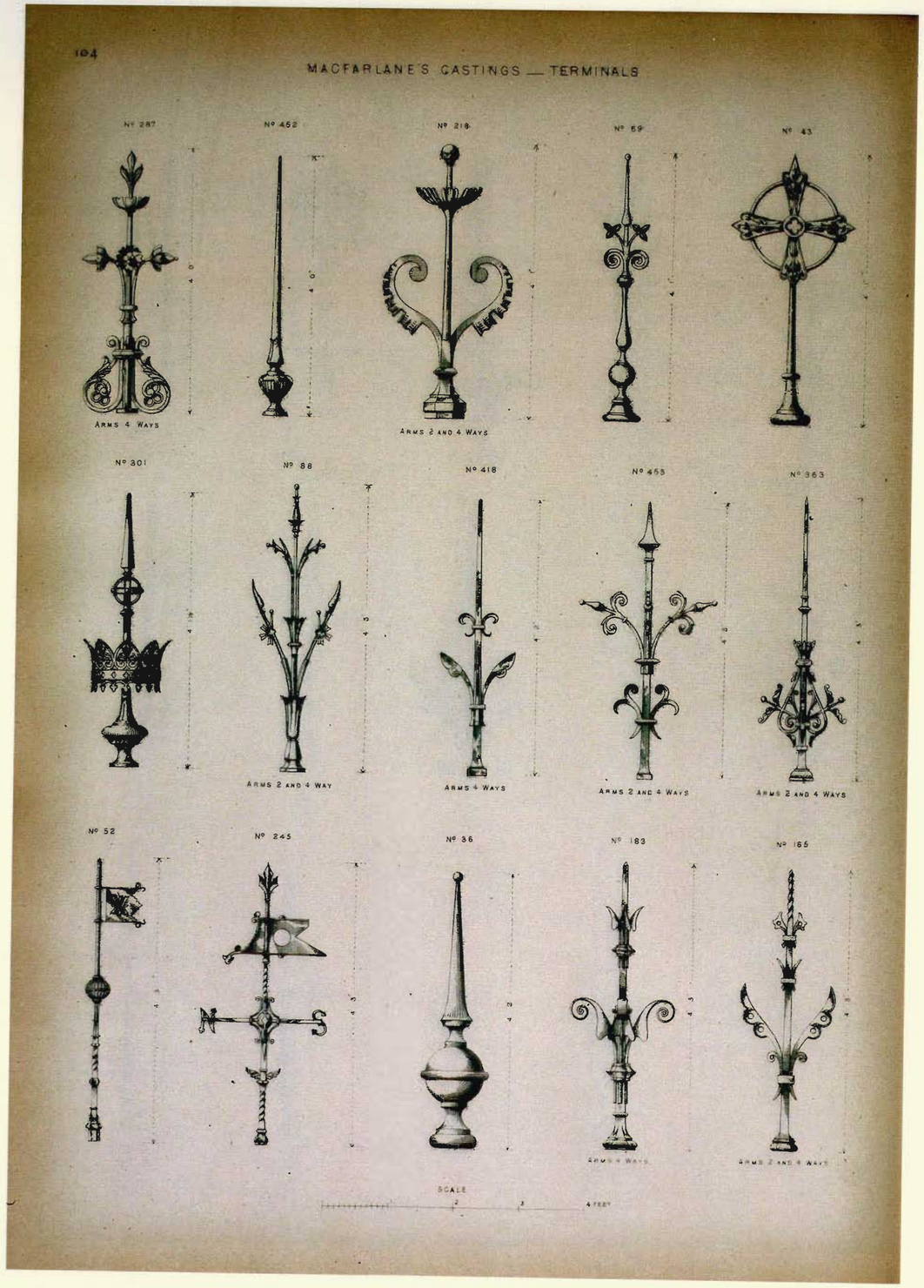

MACFARLANE'S CASTINGS — TERMINALS
99
Nº 238
Nº 426
ARMS 2 AND 4 WAYS
Nº 11
ARMS 2 AND 4 WAYS
Nº 61
Nº 261
Nº 211
ARMS 4 WAYS
Nº 164
Nº 62
Nº 231
ARMS 2 AND 4 WAYS
Nº 58
ARMS 4 WAYS
Nº 446
6' 6" DIAMETER
SCALE

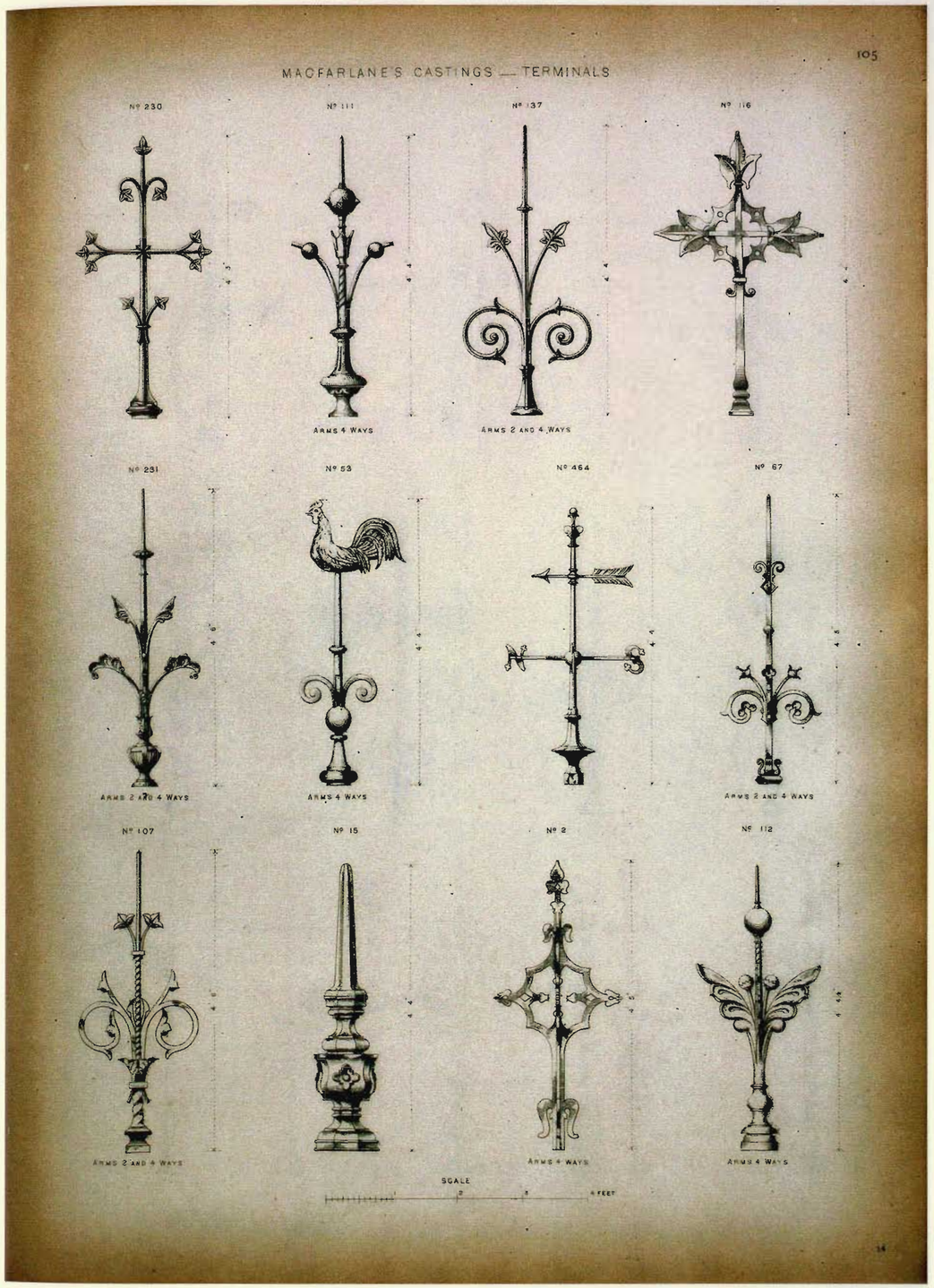

100
MACFARLANE'S CASTINGS — TERMINALS
Nº 110
Nº 431
Nº 301
Nº 234
Nº 153
Nº 53
Nº 447
Nº 59
ARMS 4 WAYS
ARMS 2 AND 4 WAYS
ARMS 4 WAYS
ARMS 2 AND 4 WAYS
Nº 451
Nº 163
Nº 119
SCALE
1 2 3 4 FEET

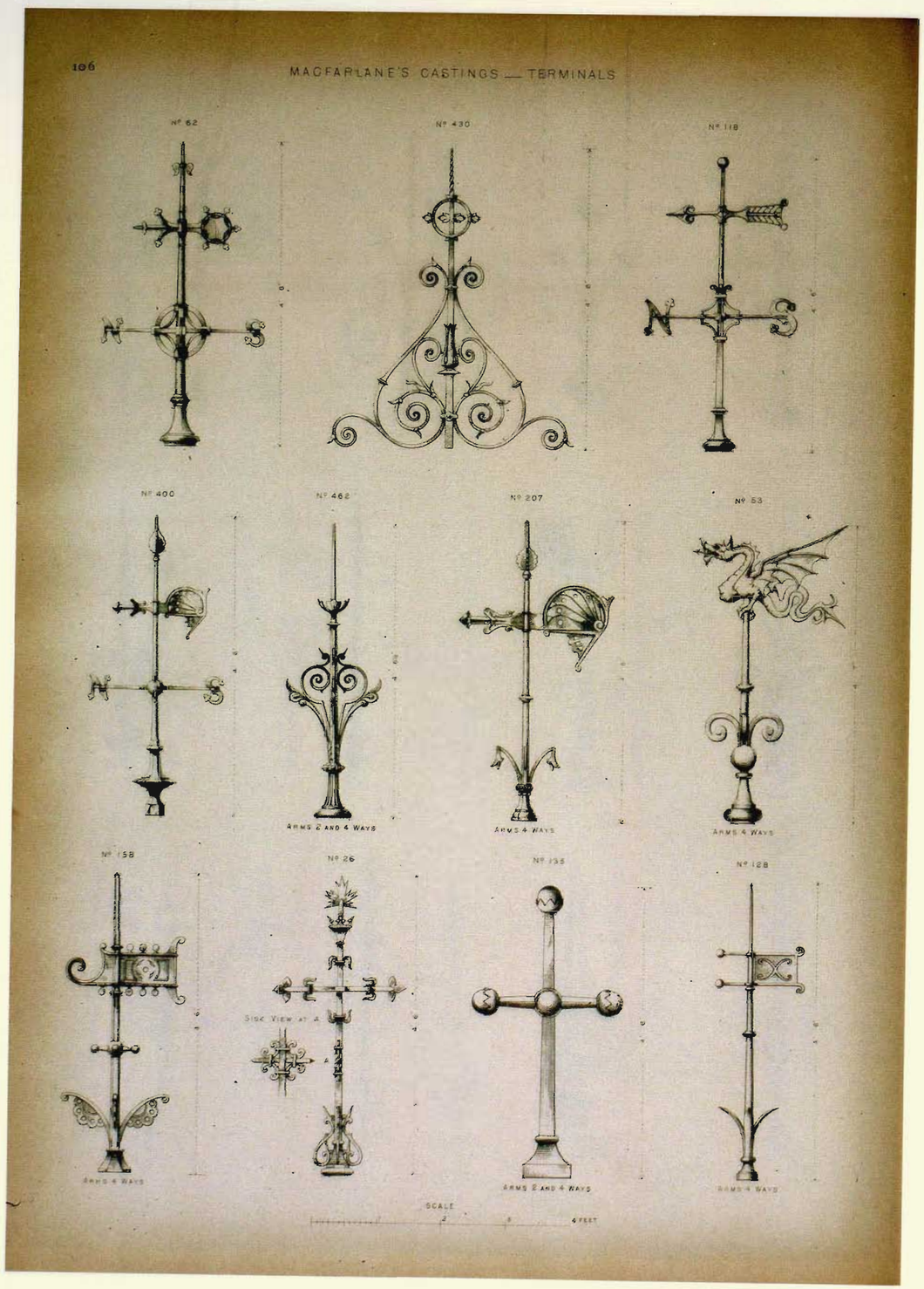

MACFARLANE'S CASTINGS — TERMINALS
101
Nº 163
Nº 360
Nº 140
Nº 430
Nº 231
Nº 105
ARMS 2 AND 4 WAYS
ARMS 4 WAYS
ARMS 2 AND 4 WAYS
ARMS 6 WAYS
Nº 417
Nº 39
Nº 55
Nº 60
N
S
ARMS 2 AND 4 WAYS
SCALE
1 2 3 4 FEET

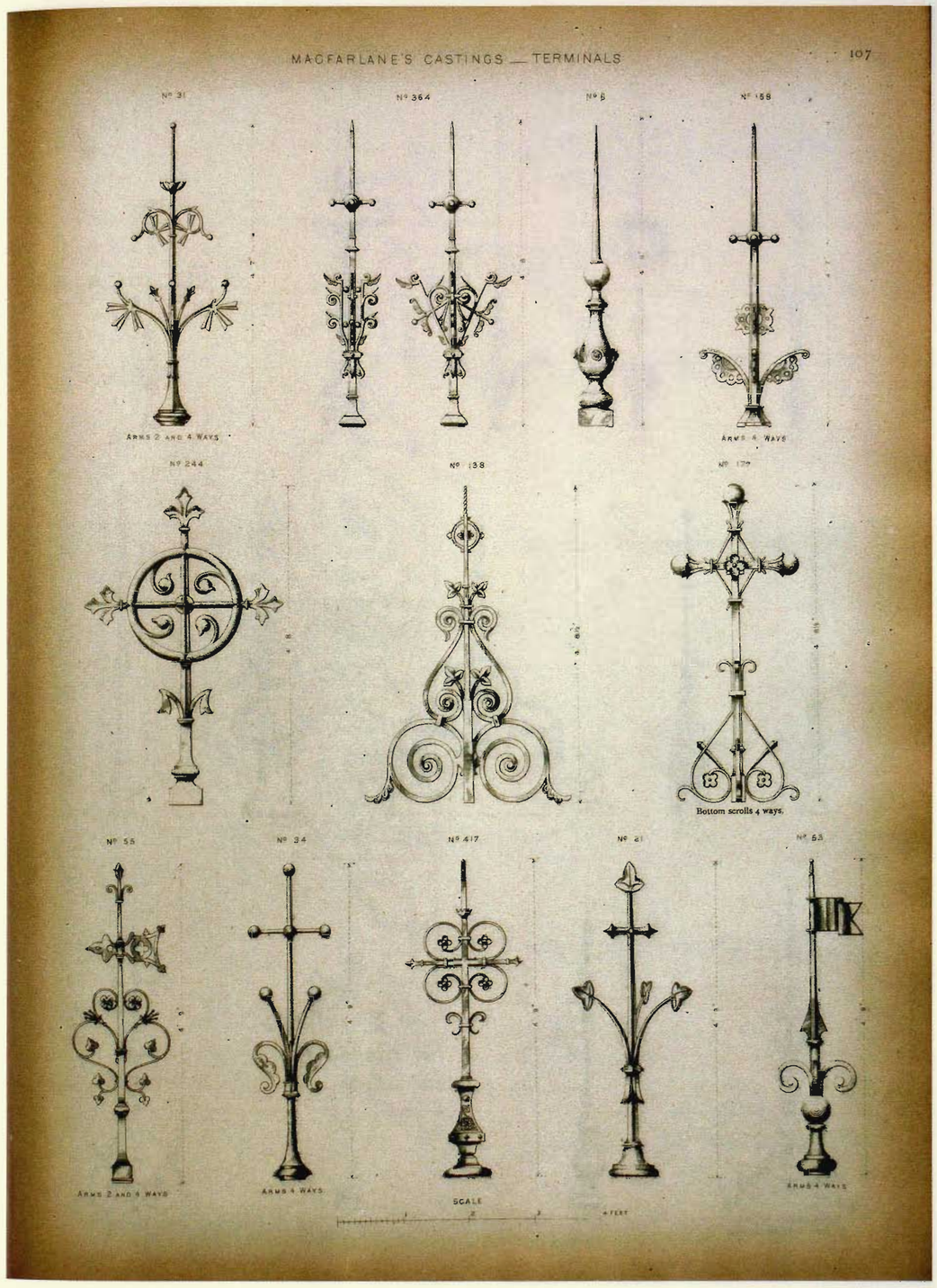

102
MACFARLANE'S CASTINGS — TERMINALS
Nº 80
ARMS 4 WAYS
Nº 90
ARMS 2 AND 4 WAYS
Nº 450
Nº 30
ARMS 4 WAYS
Nº 402
ARMS 2 AND 4 WAYS
Nº 75
ARMS 2 AND 4 WAYS
Nº 113
Nº 287
ARMS 4 WAYS
Nº 181
Nº 34
ARMS 4 WAYS
Nº 108
ARMS 4 WAYS
Nº 117
Nº 463
Nº 112
SCALE
4 FEET

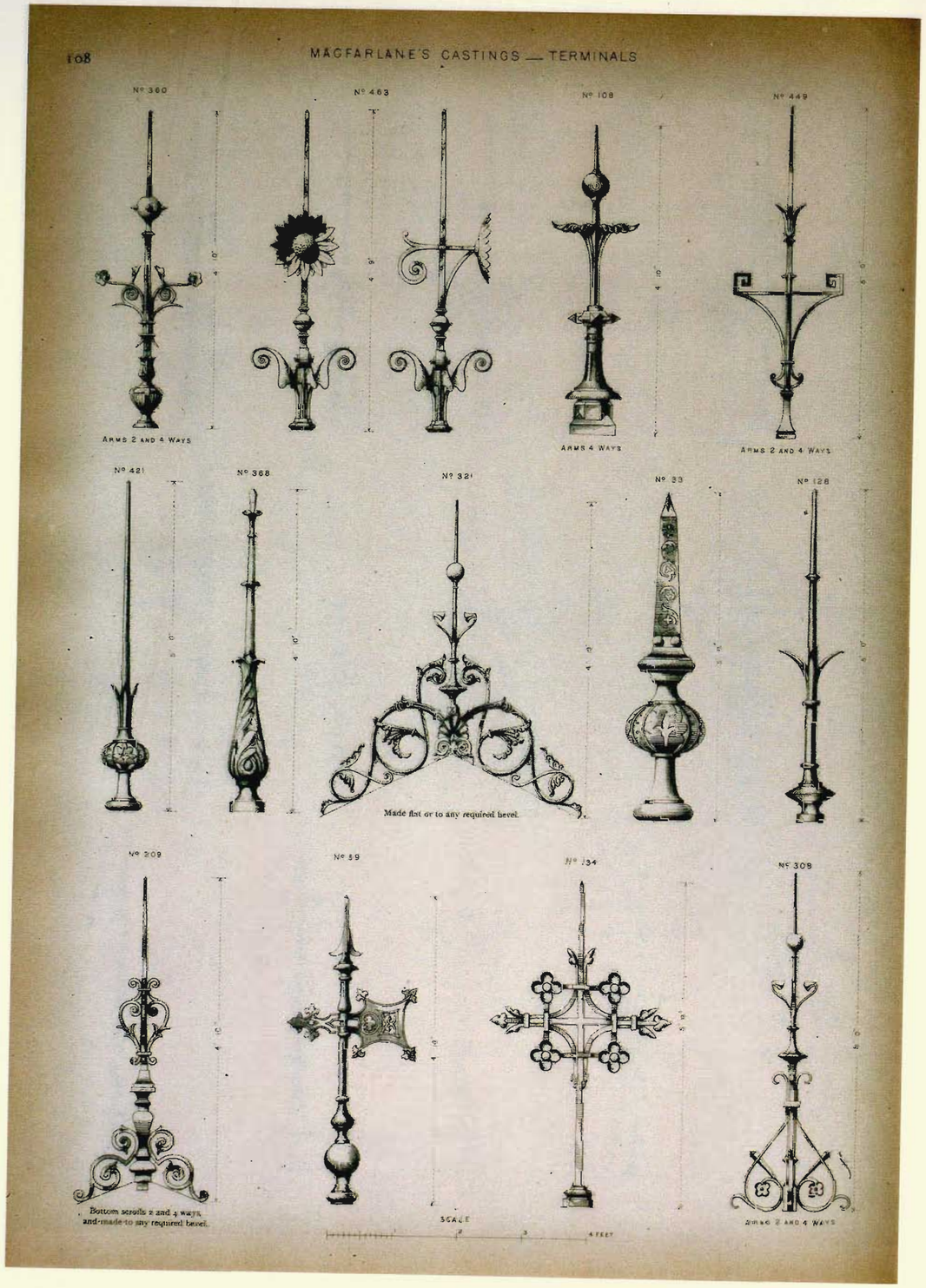

103
MACFARLANE'S CASTINGS — TERMINALS
Nº 232
Nº 236
Nº 198
Nº 47
Nº 233
Nº 63
ARMS 2 AND 4 WAYS
Nº 2
Nº 451
Nº 68
Nº 11
ARMS 2 AND 4 WAYS
Nº 57
N
S
Nº 378
Nº 53
ARMS 4 WAYS
Nº 24
Nº 361
SCALE
4 FEET

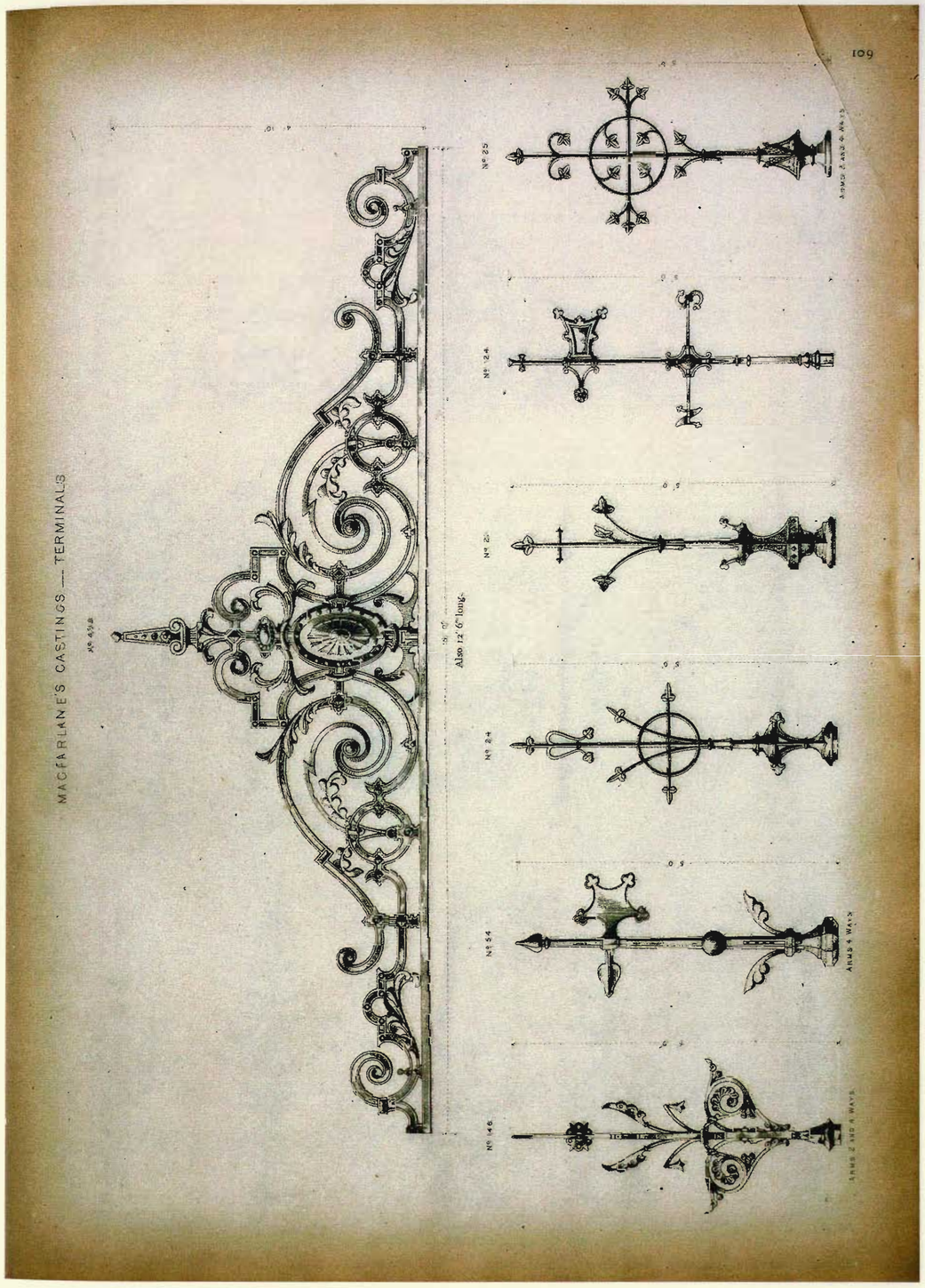

104
MACFARLANE'S CASTINGS — TERMINALS
Nº 287
ARMS 4 WAYS
Nº 452
Nº 218
ARMS 2 AND 4 WAYS
Nº 59
Nº 43
Nº 301
Nº 88
ARMS 2 AND 4 WAY
Nº 418
ARMS 4 WAYS
Nº 453
ARMS 2 AND 4 WAYS
Nº 363
ARMS 2 AND 4 WAYS
Nº 52
Nº 245
Nº 36
Nº 183
ARMS 4 WAYS
Nº 165
ARMS 2 AND 4 WAYS
SCALE
2
3
4 FEET

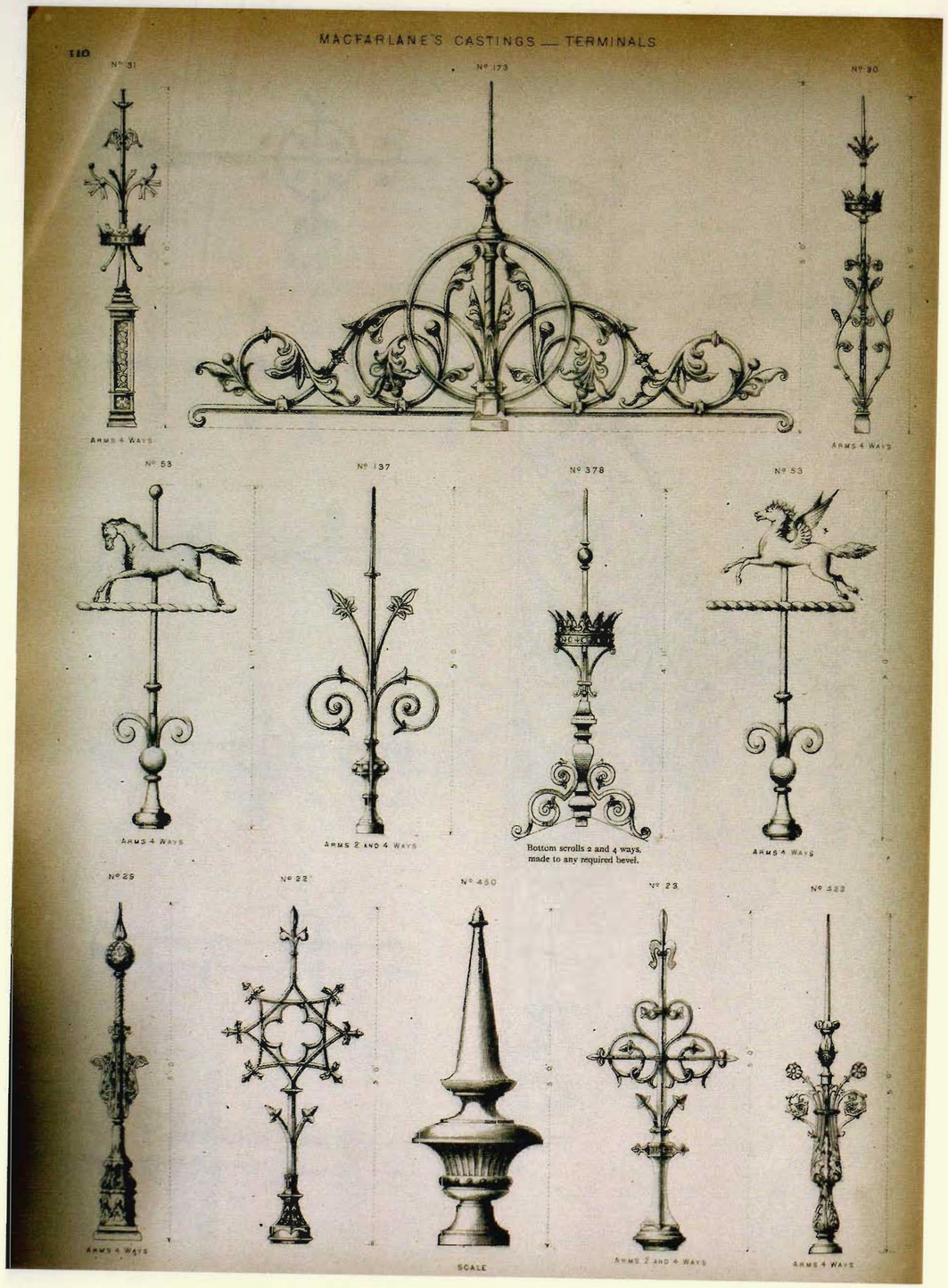

105
MACFARLANE'S CASTINGS — TERMINALS
Nº 230
Nº 111
ARMS 4 WAYS
Nº 137
ARMS 2 AND 4 WAYS
Nº 116
Nº 231
ARMS 2 AND 4 WAYS
Nº 53
ARMS 4 WAYS
Nº 464
Nº 67
ARMS 2 AND 4 WAYS
Nº 107
ARMS 2 AND 4 WAYS
Nº 15
Nº 2
ARMS 4 WAYS
Nº 112
ARMS 4 WAYS
SCALE
2
3
4 FEET

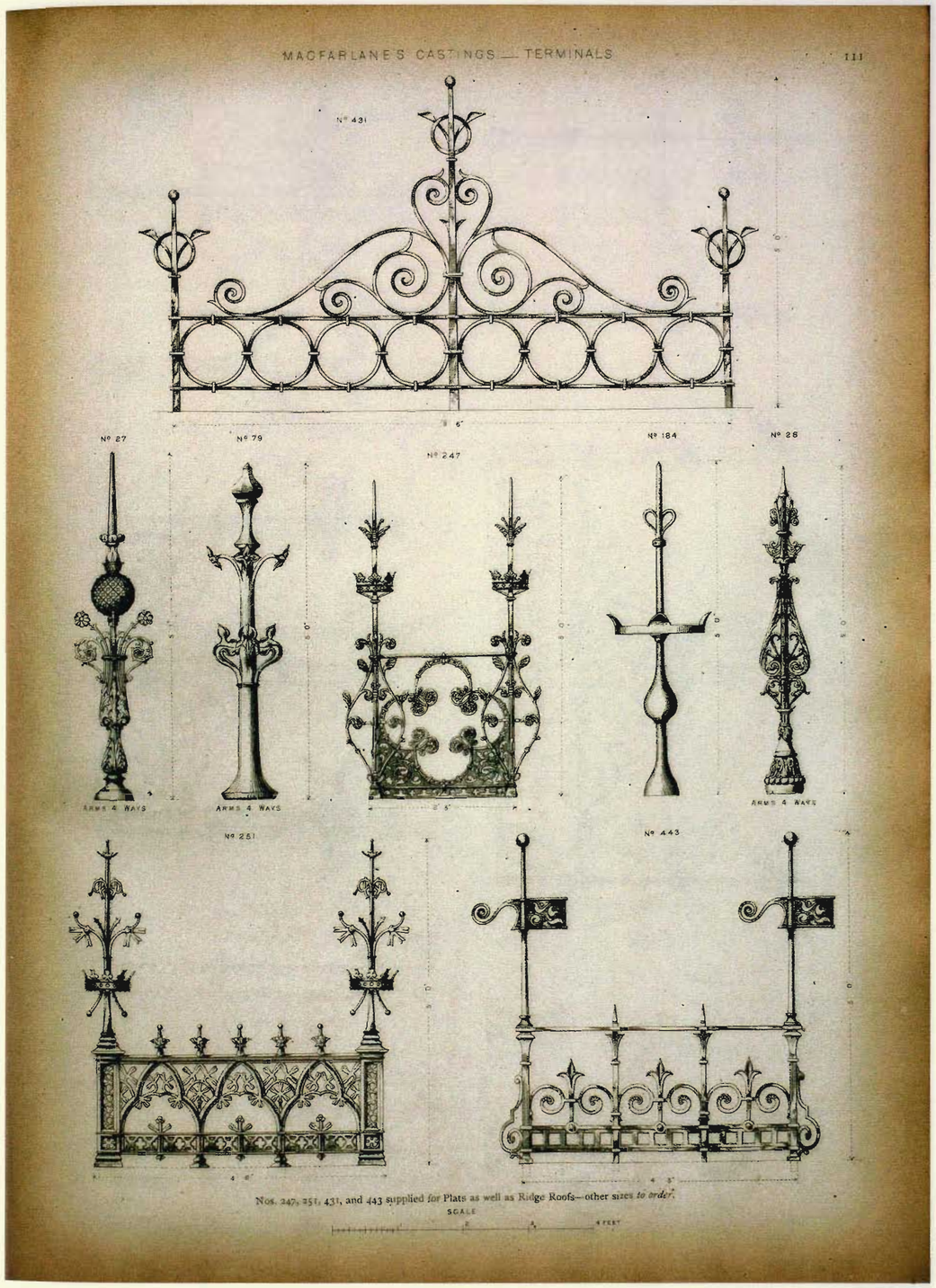

106
MACFARLANE'S CASTINGS — TERMINALS
Nº 62
Nº 430
Nº 118
Nº 400
Nº 462
Nº 207
Nº 53
ARMS 2 AND 4 WAYS
ARMS 4 WAYS
ARMS 4 WAYS
Nº 158
Nº 26
Nº 135
Nº 128
SIDE VIEW AT A
ARMS 4 WAYS
ARMS 2 AND 4 WAYS
ARMS 4 WAYS
SCALE
4 FEET

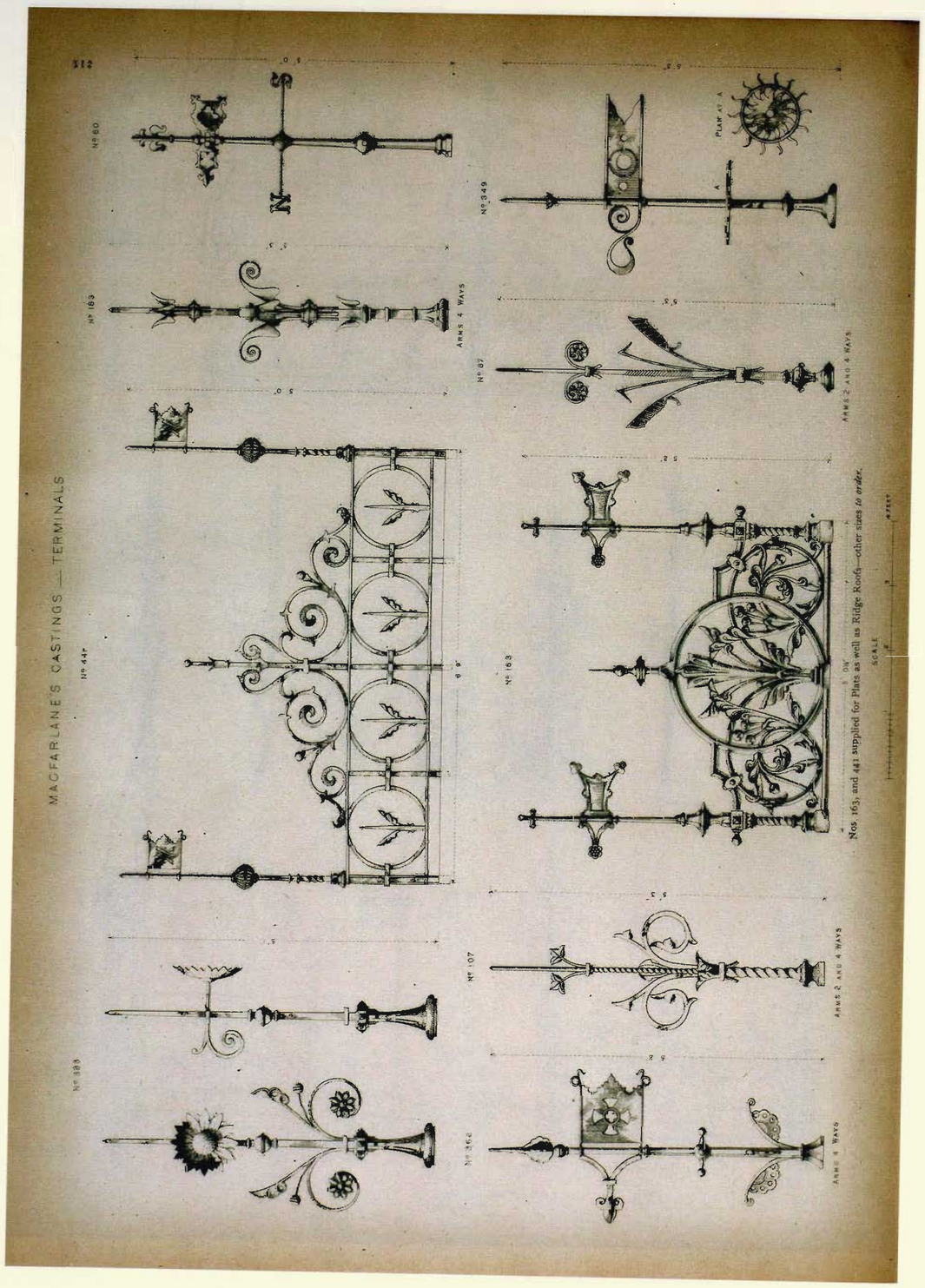

MACFARLANE'S CASTINGS — TERMINALS
107
Nº 31
Nº 364
Nº 8
Nº 158
ARMS 2 AND 4 WAYS
ARMS 4 WAYS
Nº 244
Nº 138
Nº 179
Bottom scrolls 4 ways.
Nº 55
Nº 34
Nº 417
Nº 61
Nº 53
ARMS 2 AND 4 WAYS
ARMS 4 WAYS
SCALE
4 FEET
ARMS 4 WAYS

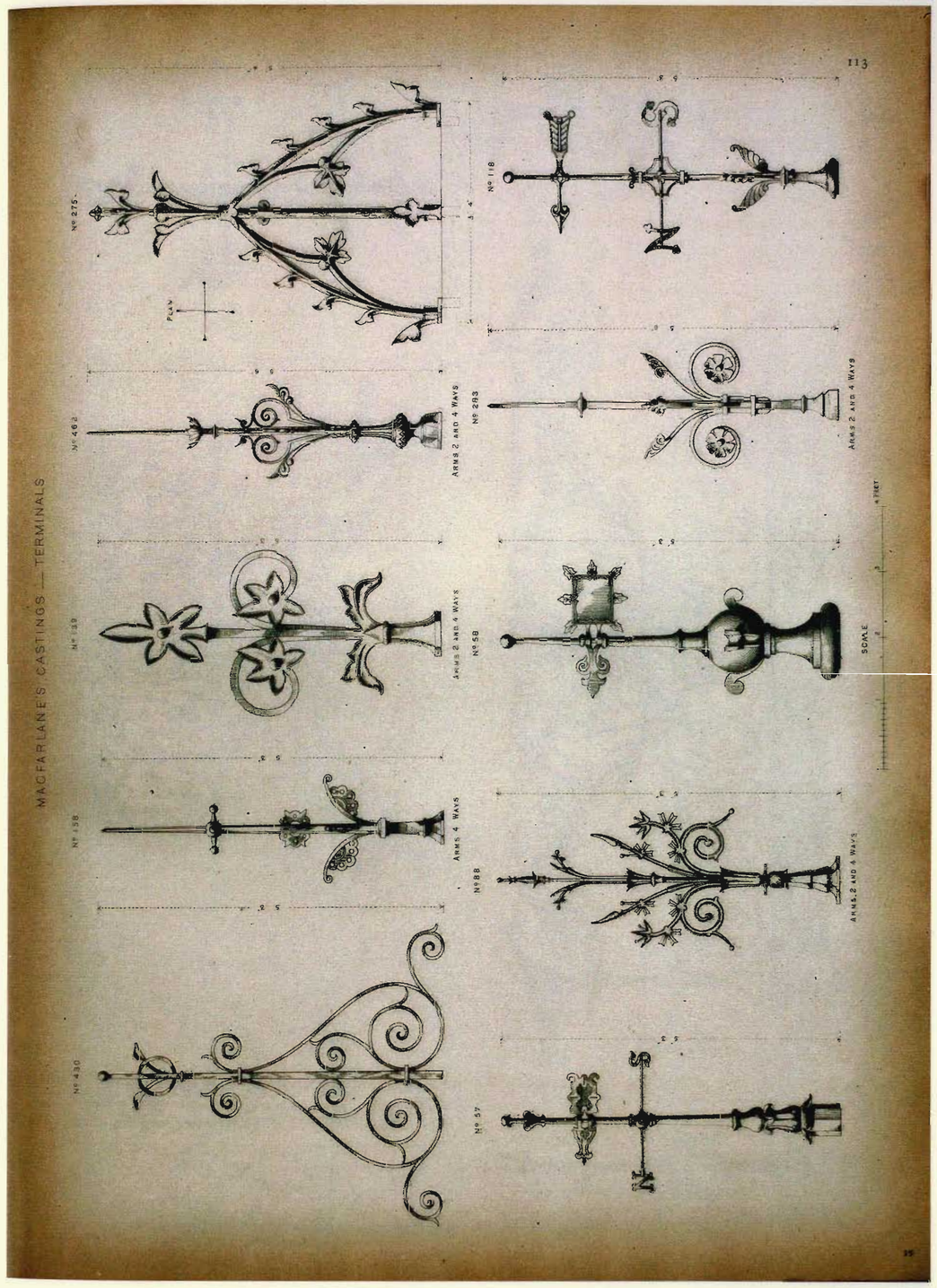

108
MACFARLANE'S CASTINGS — TERMINALS
Nº 360
ARMS 2 AND 4 WAYS
Nº 463
Nº 108
ARMS 4 WAYS
Nº 449
ARMS 2 AND 4 WAYS
Nº 421
Nº 368
Nº 321
Made flat or to any required bevel.
Nº 33
Nº 128
Nº 209
Bottom scrolls 2 and 4 ways, and made to any required bevel.
Nº 59
Nº 134
SCALE
Nº 308
ARMS 2 AND 4 WAYS

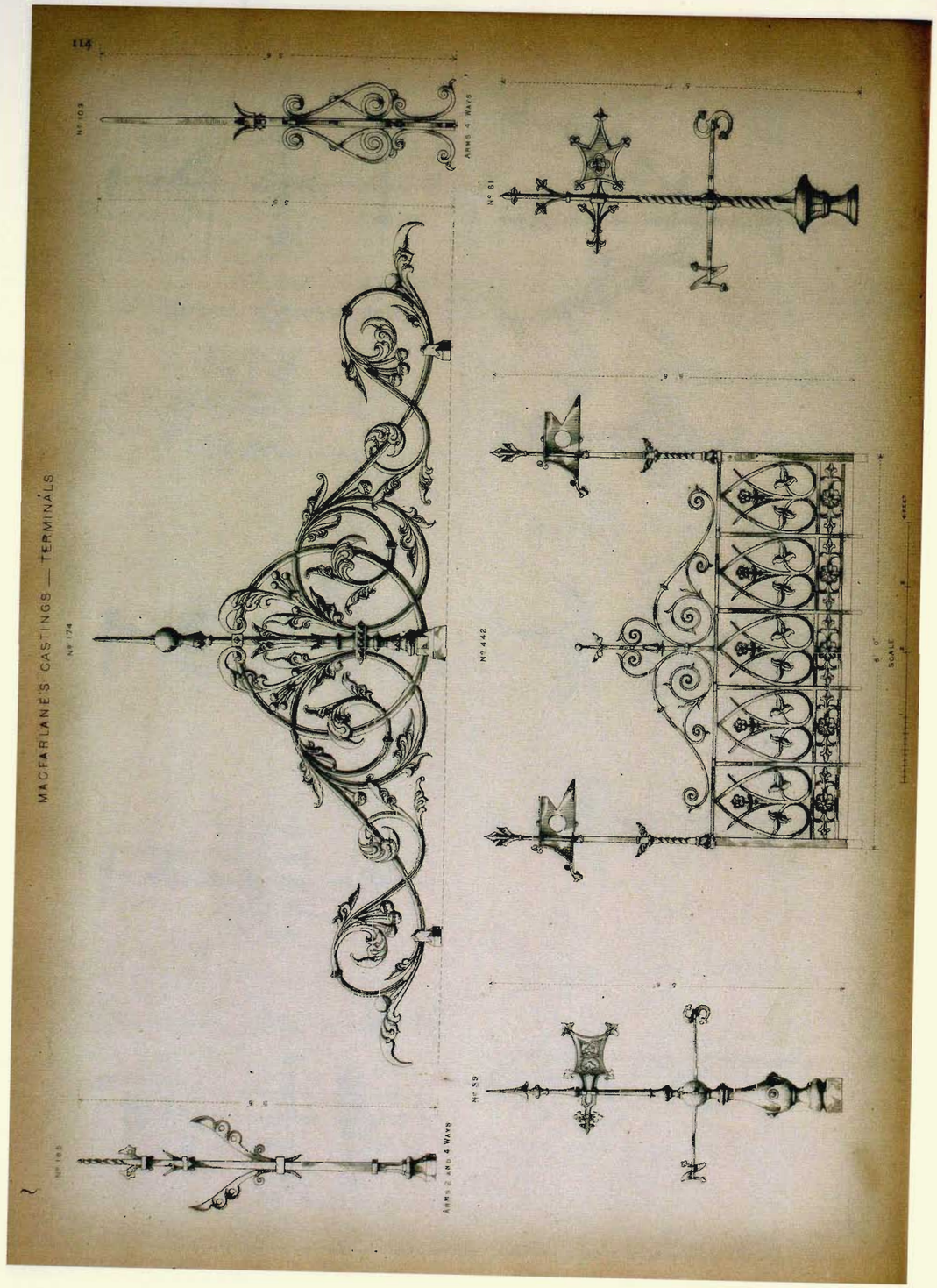

109
MACFARLANE'S CASTINGS — TERMINALS
Nº 459a
Also 12' 6" long.
Nº 25
ARMS 2 AND 4 WAYS
Nº 24
Nº 2
Nº 24
Nº 154
ARMS 4 WAYS
Nº 146
ARMS 2 AND 4 WAYS

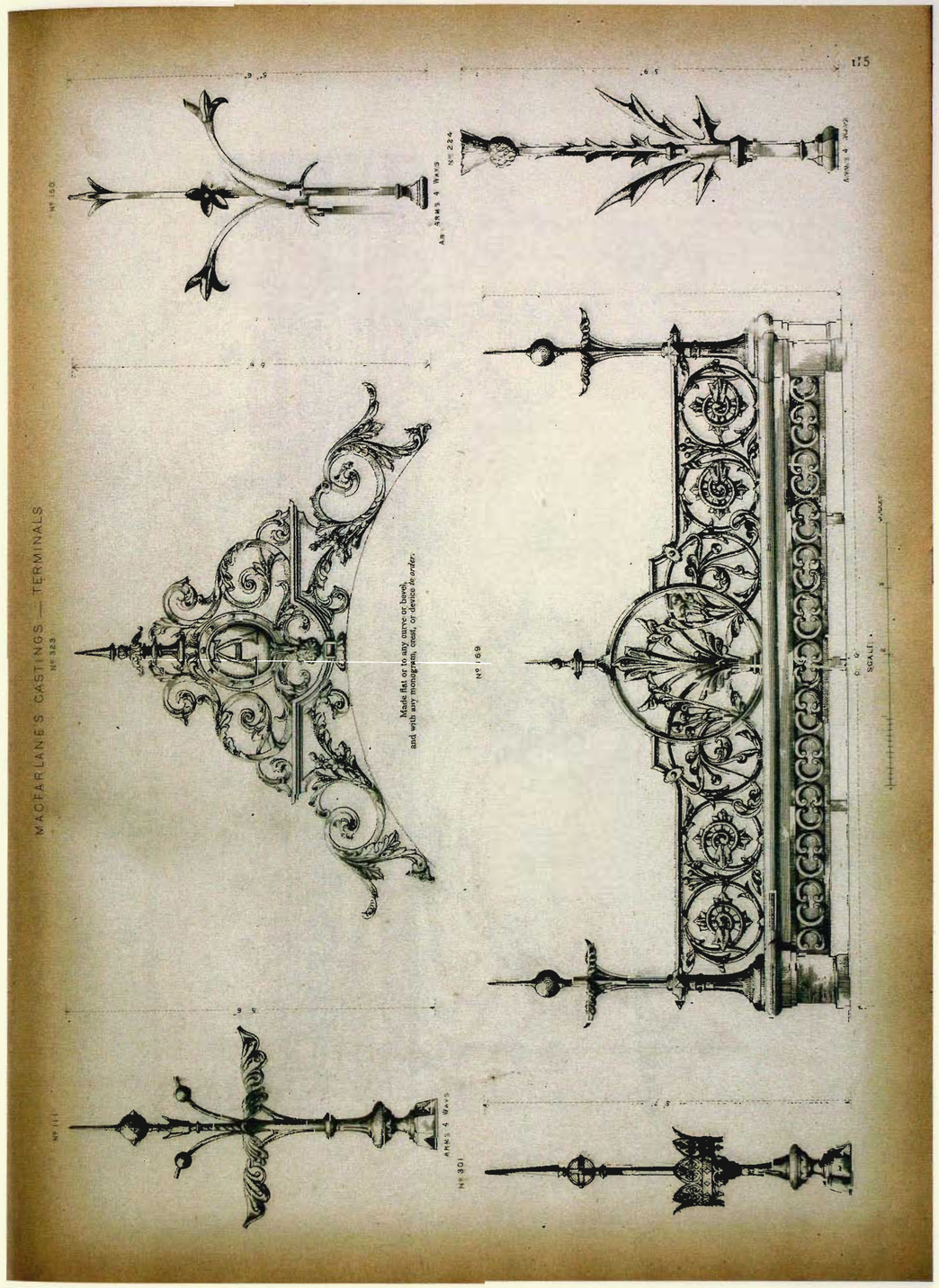

110
MACFARLANE'S CASTINGS — TERMINALS
Nº 31
Nº 173
Nº 30
ARMS 4 WAYS
ARMS 4 WAYS
Nº 53
Nº 137
Nº 378
Nº 53
ARMS 4 WAYS
ARMS 2 AND 4 WAYS
Bottom scrolls 2 and 4 ways, made to any required bevel.
ARMS 4 WAYS
Nº 25
Nº 22
Nº 450
Nº 23
Nº 322
ARMS 4 WAYS
SCALE
ARMS 2 AND 4 WAYS
ARMS 4 WAYS

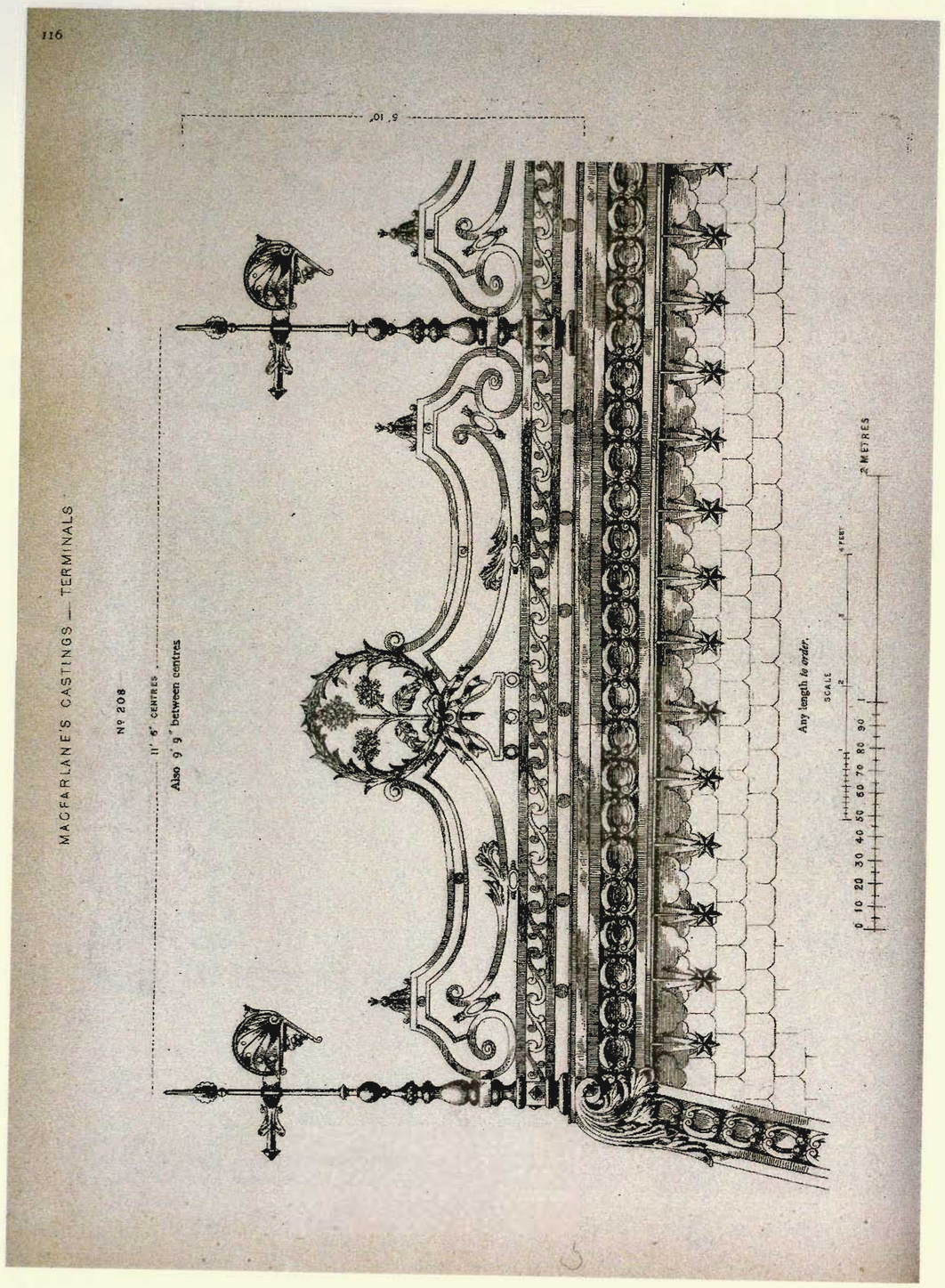

MACFARLANE'S CASTINGS — TERMINALS
111
Nº 431
Nº 27
Nº 79
Nº 247
Nº 184
Nº 26
ARMS 4 WAYS
ARMS 4 WAYS
ARMS 4 WAYS
Nº 251
Nº 443
Nos. 247, 251, 431, and 443 supplied for Flats as well as Ridge Roofs—other sizes to order.
SCALE

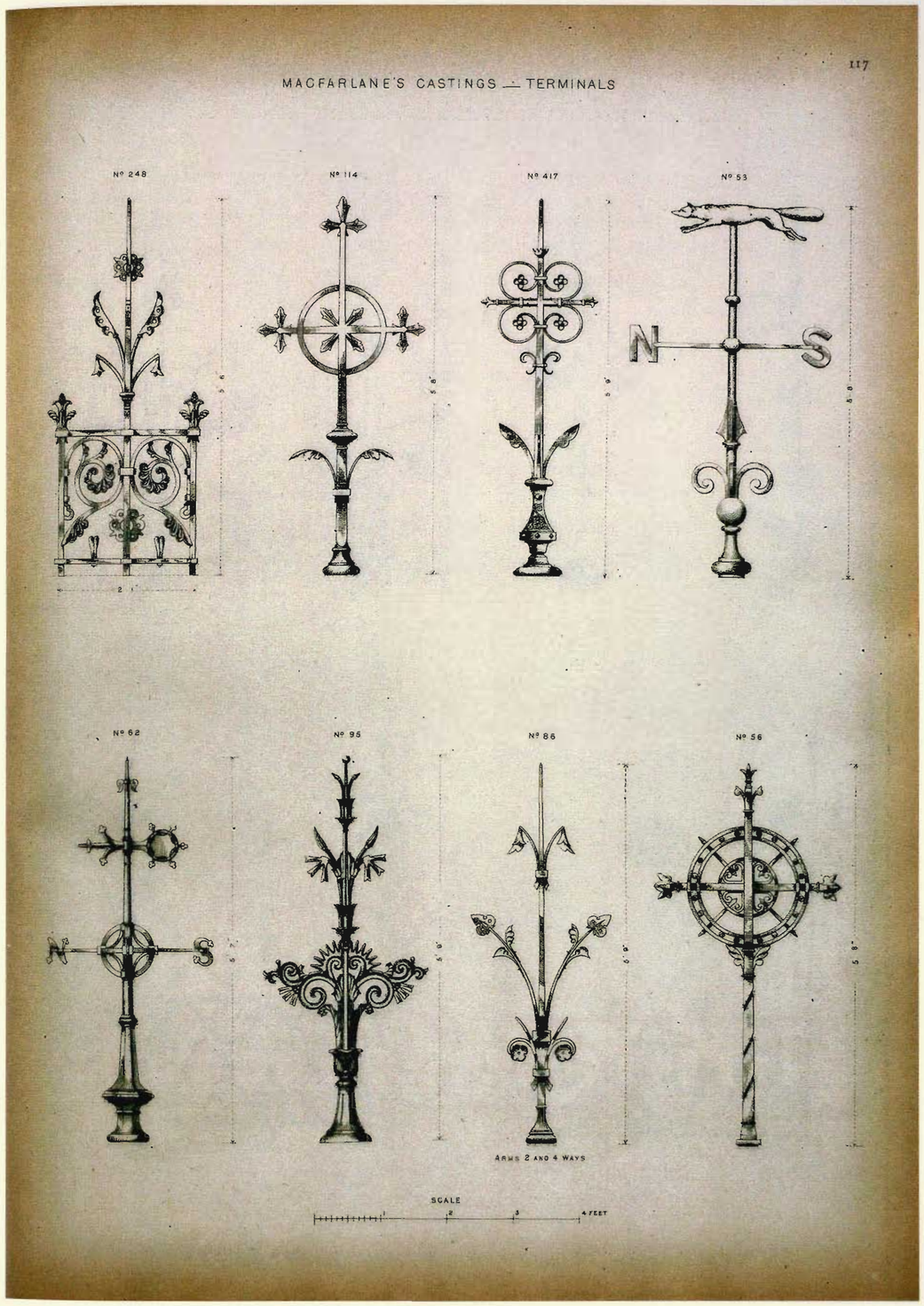

MACFARLANE'S CASTINGS — TERMINALS
112
No 60
No 163
ARMS 4 WAYS
No 44
No 349
PLAN AT A
No 87
ARMS 2 AND 4 WAYS
No 163
SCALE
Nos. 163, and 441 supplied for Plate as well as Ridge Roofs—other sizes to order.
No 383
No 107
ARMS 2 AND 4 WAYS
No 362
ARMS 4 WAYS


MACFARLANE'S CASTINGS — TERMINALS
113
No 275
PLAN
No 118
No 462
ARMS 2 AND 4 WAYS
No 283
ARMS 2 AND 4 WAYS
No 139
ARMS 2 AND 4 WAYS
No 58
SCALE
No 138
ARMS 4 WAYS
No 88
ARMS 2 AND 4 WAYS
No 430
No 57

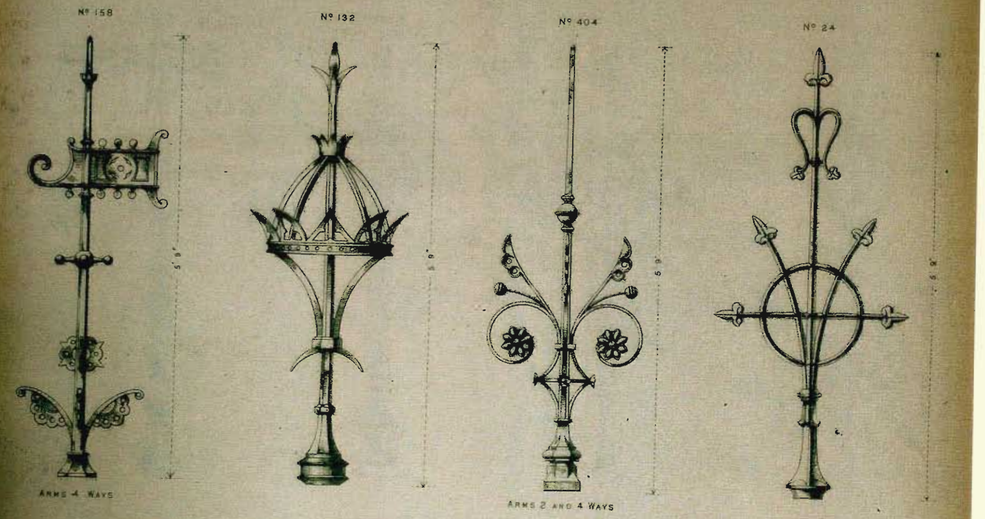

114
MACFARLANE'S CASTINGS — TERMINALS
No 174
No 103
ARMS 4 WAYS
No 61
No 442
SCALE
No 59
No 188
ARMS 2 AND 4 WAYS

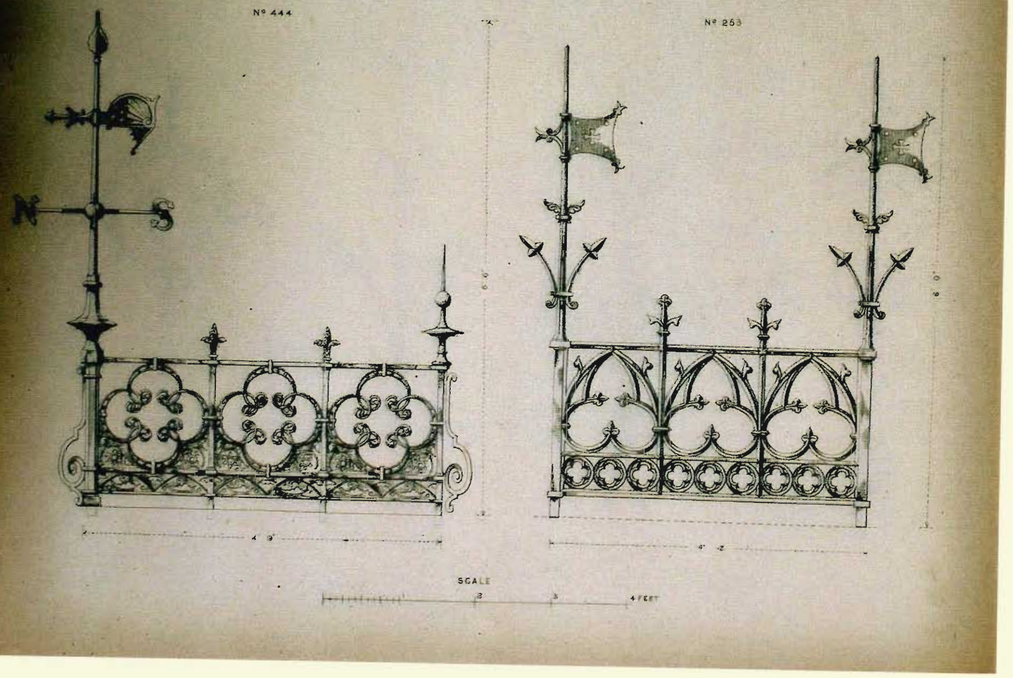

115
MACFARLANE'S CASTINGS — TERMINALS
No 323
Made flat or to any curve or bevel,
and with any monogram, crest, or device to order.
No 50
No 224
ARMS 4 WAYS
No 169
SCALE
No 111
No 301
ARMS 4 WAYS


MACFARLANE'S CASTINGS — TERMINALS
Nº 208
11' 6" CENTRES
Also 9' 9" between centres
5' 10"
Any length to order.
SCALE
2 METRES
0 10 20 30 40 50 60 70 80 90
1 FEET
2

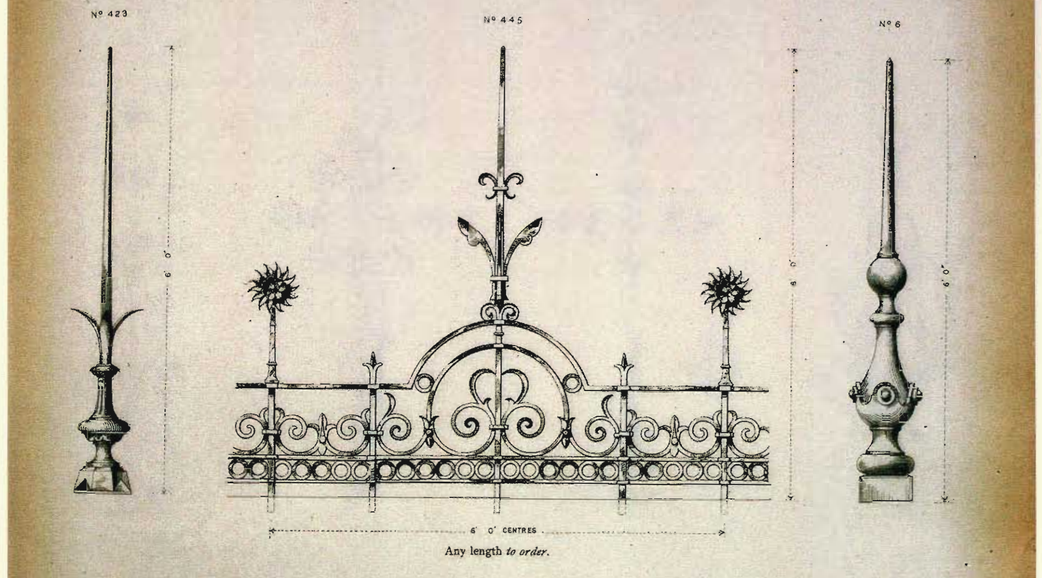

MACFARLANE'S CASTINGS — TERMINALS
Nº 248
Nº 114
Nº 417
Nº 53
N
S
Nº 62
Nº 95
Nº 86
Nº 56
ARMS 2 AND 4 WAYS
SCALE
4 FEET

MACFARLANE'S CASTINGS — TERMINALS

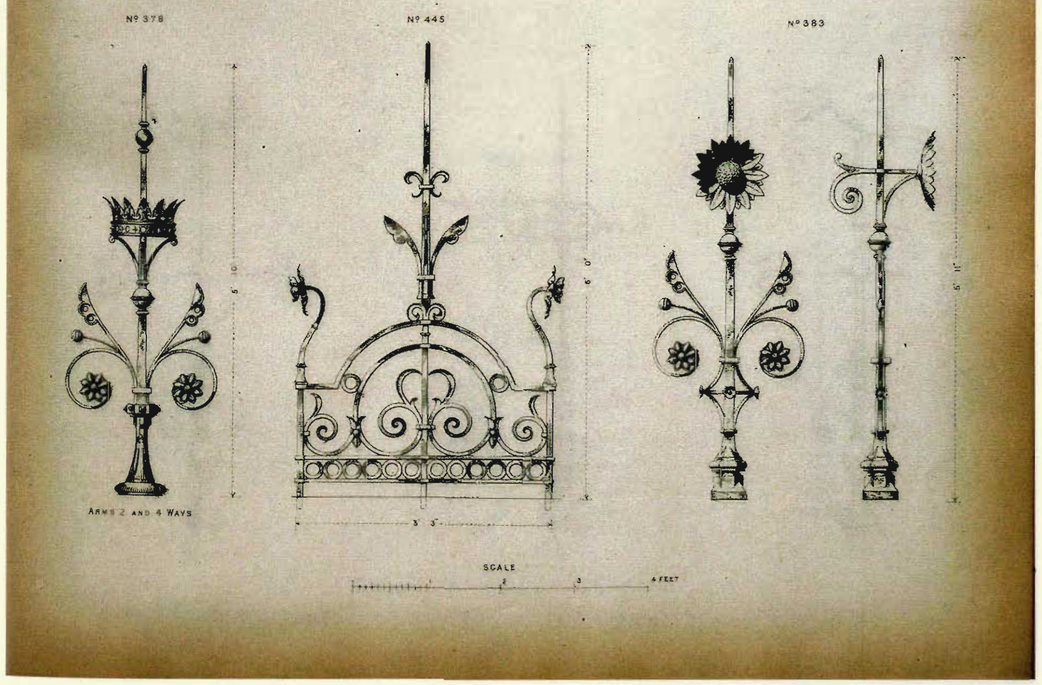


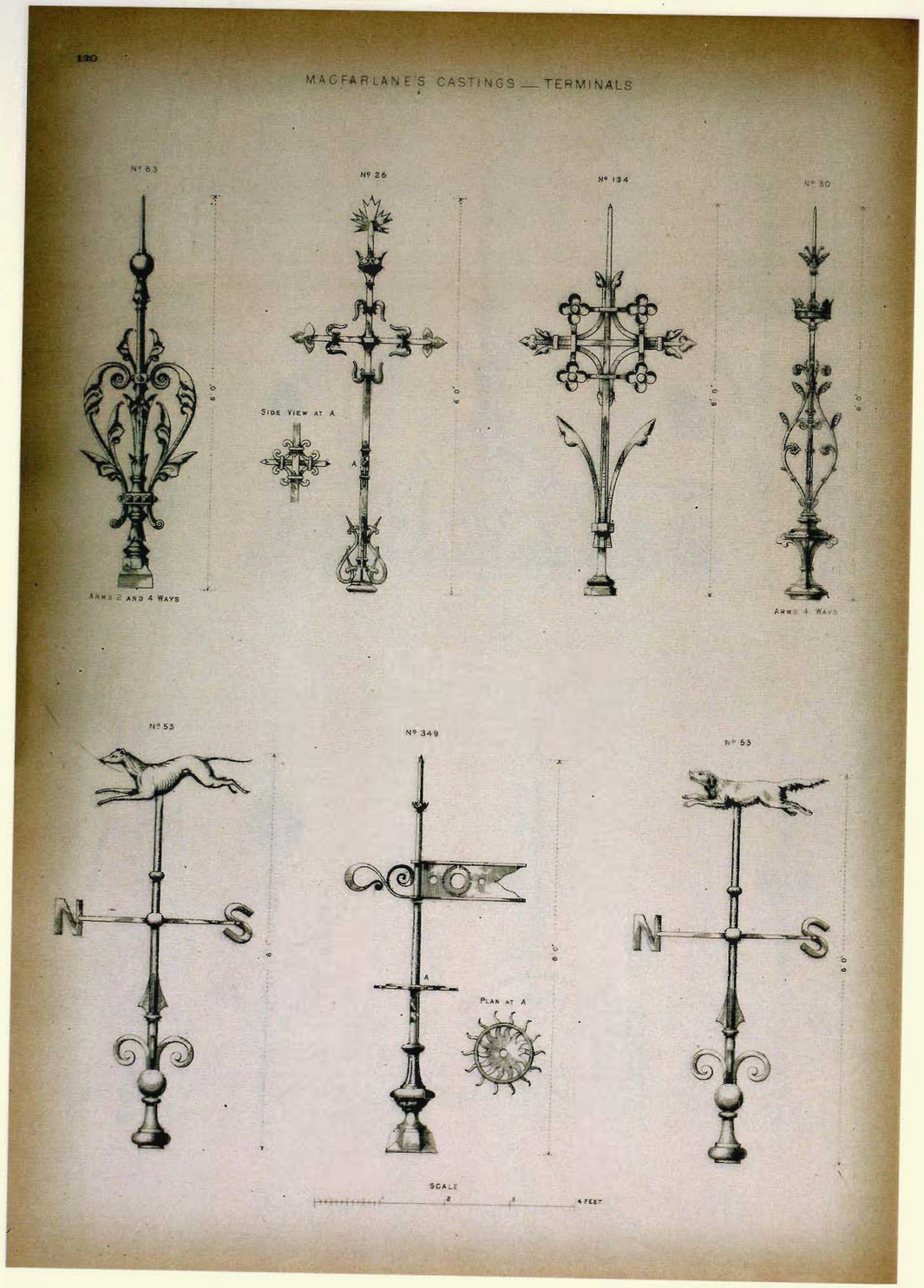


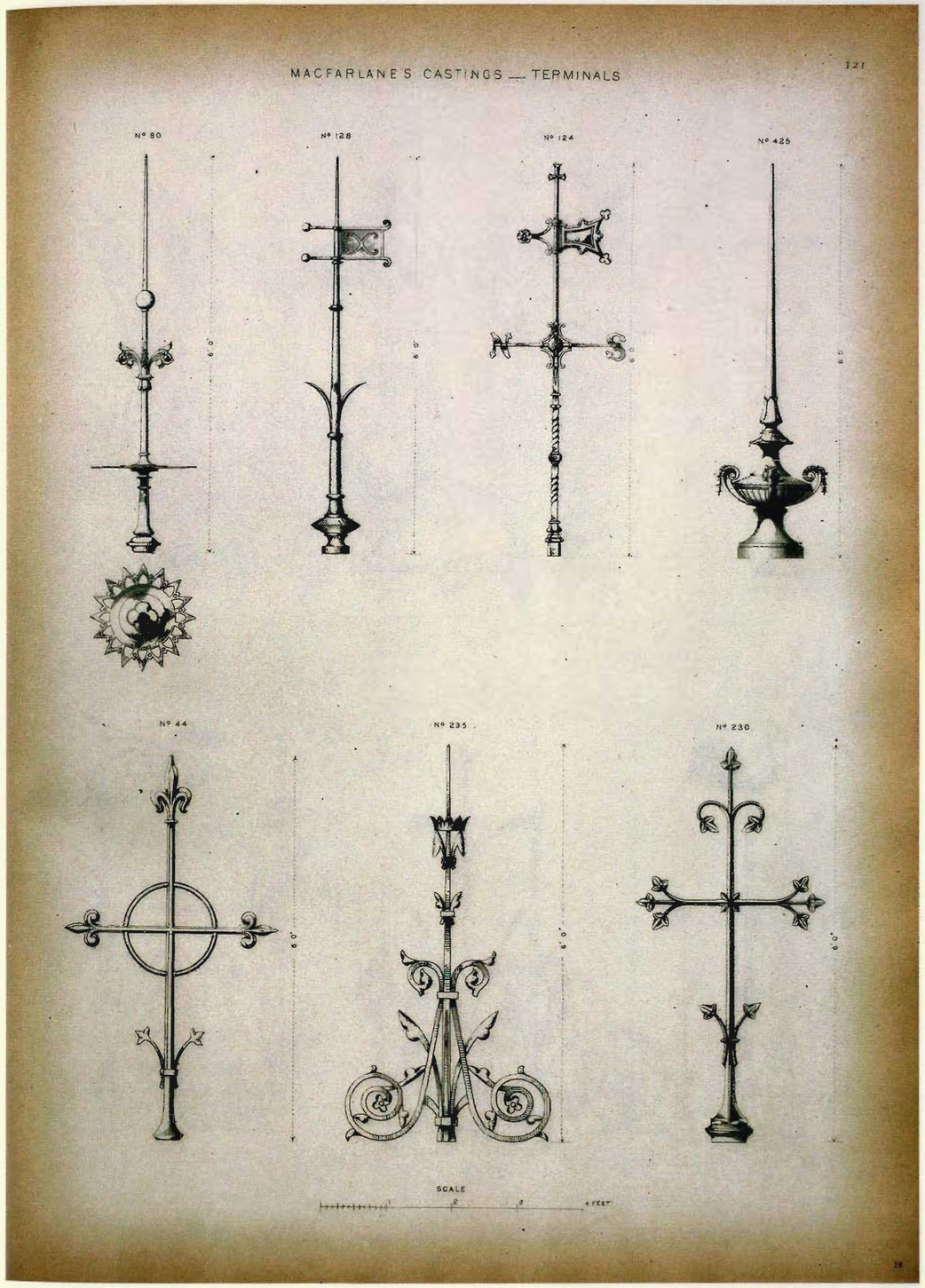
MACFARLANE'S CASTINGS — TERMINALS



Any length *to order*.




120
MACFARLANE'S CASTINGS — TERMINALS
Nº 63
ARMS 2 AND 4 WAYS
Nº 26
SIDE VIEW AT A
A
Nº 134
Nº 30
ARMS 4 WAYS
Nº 53
N
S
Nº 349
A
PLAN AT A
Nº 53
N
S
SCALE
2
3
4 FEET


MACFARLANE'S CASTINGS — TERMINALS
121
Nº 80
Nº 128
Nº 124
Nº 425
Nº 44
Nº 235
Nº 230
SCALE
4 FEET

122

MACFARLANE'S CASTINGS — TERMINALS

Nº 34

ARMS 4 WAYS

Nº 207

Nº 64

Nº 88

ARMS 4 WAYS

Nº 53

Nº 217

ARMS 2 AND 4 WAYS

Nº 53

N S

N S

SCALE

4 FEET

123

MACFARLANE'S CASTINGS — TERMINALS

Nº 227

Section

Diameter inside of flange 6 ft. 6 in. other sizes to order

6' 6"

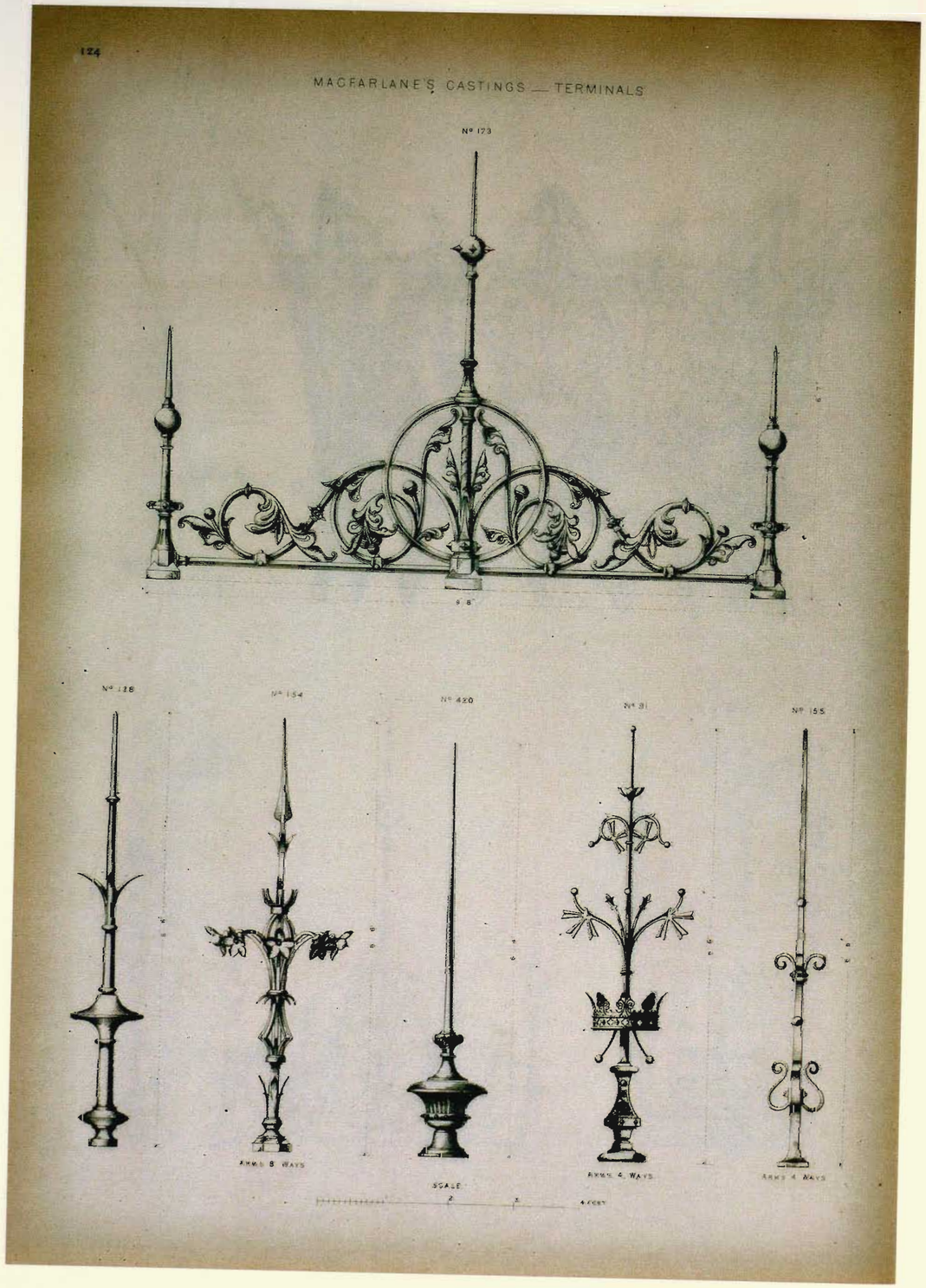
Nº 252

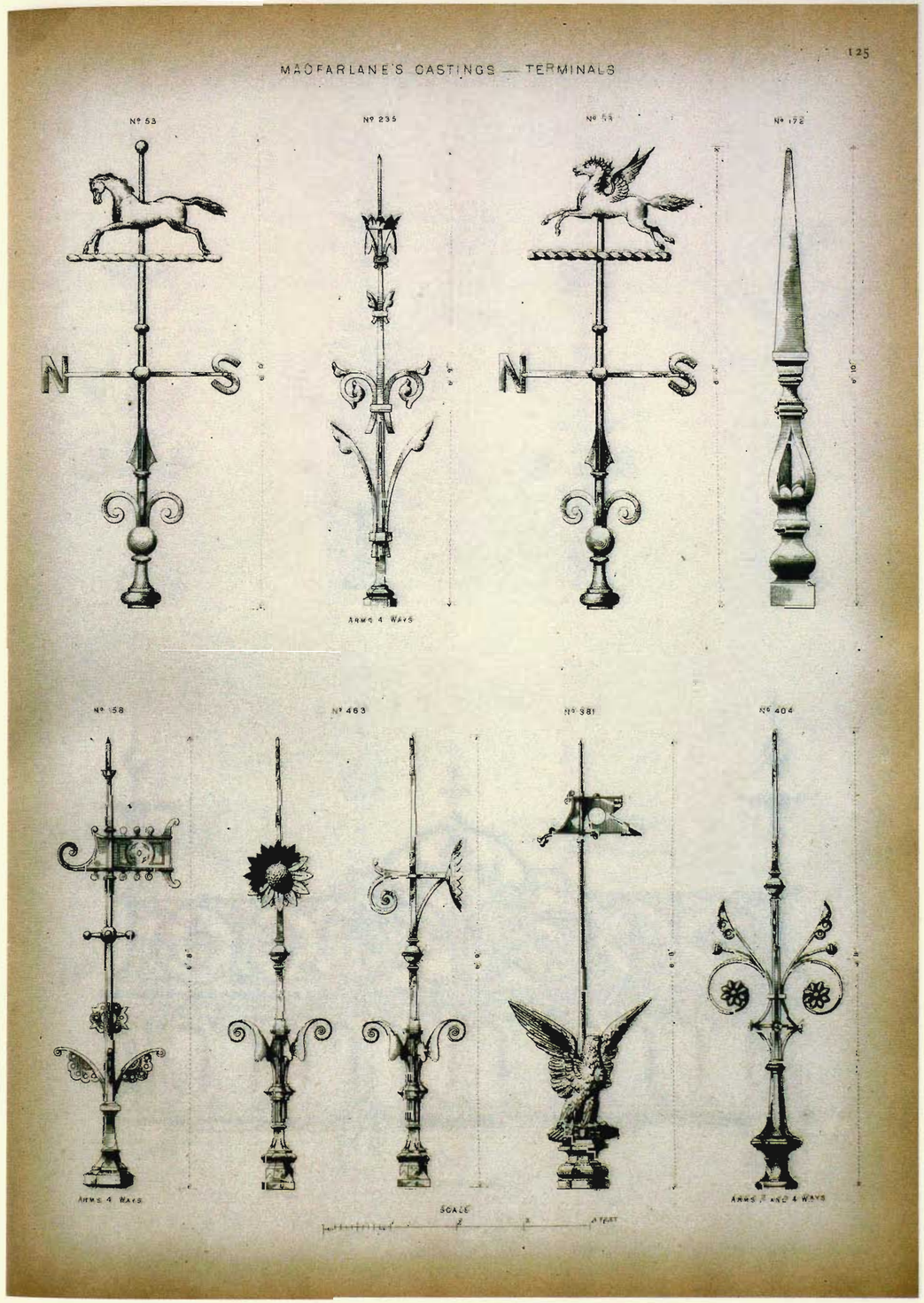
Nº 173

Nº 27

SCALE

4 FEET


124
MACFARLANE'S CASTINGS — TERMINALS
Nº 173
6' 8"
Nº 128
Nº 154
Nº 420
Nº 91
Nº 155
ARMS 8 WAYS
SCALE
2
3
4 FEET
ARMS 4 WAYS
ARMS 4 WAYS
ARMS 4 WAYS


125
MACFARLANE'S CASTINGS — TERMINALS
Nº 53
N
S
Nº 235
ARMS 4 WAYS
Nº 58
N
S
Nº 172
Nº 158
ARMS 4 WAYS
Nº 463
Nº 981
Nº 404
SCALE
2
3
4 FEET
ARMS 2 AND 4 WAYS

126

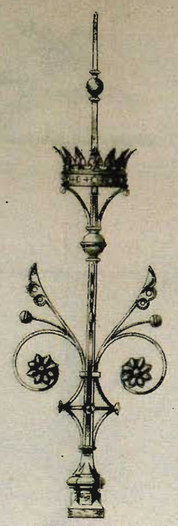
MACFARLANE'S CASTINGS — TERMINALS

Nº 87



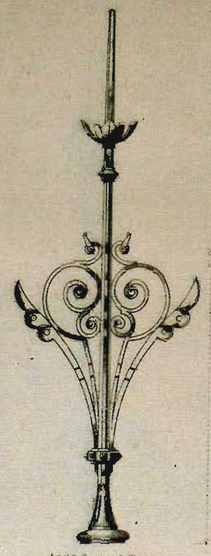
ARMS 2 AND 4 WAYS

Nº 378



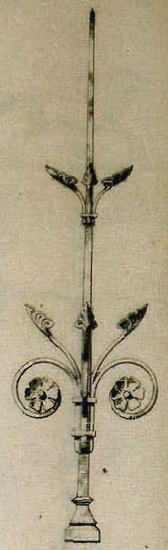
ARMS 2 AND 4 WAYS

Nº 462



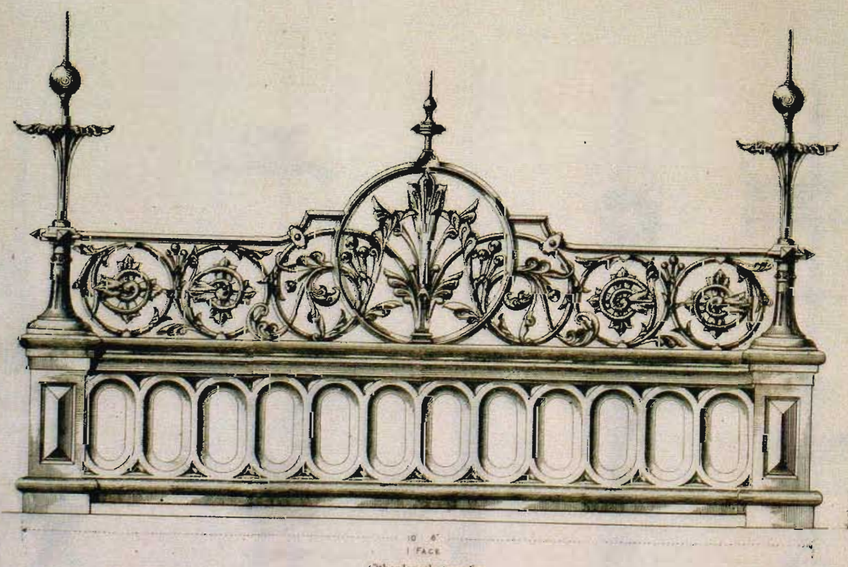
ARMS 2 AND 4 WAYS

Nº 283



ARMS 2 AND 4 WAYS

Nº 169



10 6"

1 FACE

Other lengths to order.

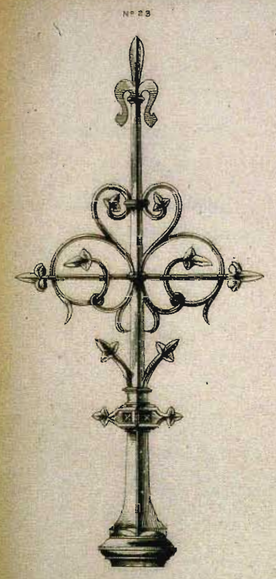
SCALE

1 2 3 4 FEET

127

MACFARLANE'S CASTINGS — TERMINALS

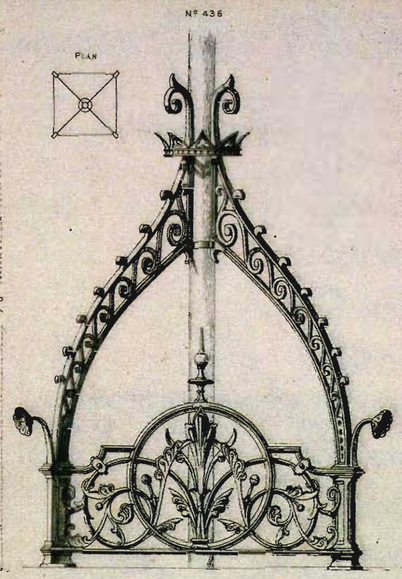
Nº 23



ARMS 2 AND 4 WAYS

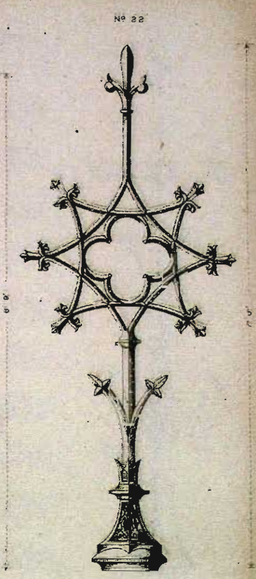
Nº 436

PLAN

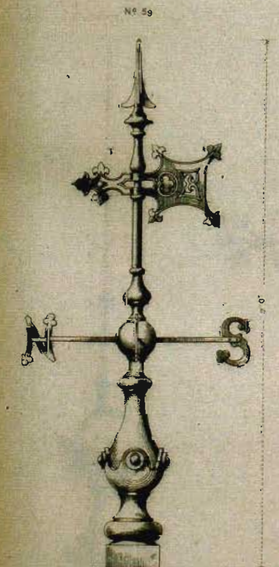


4' 6"

Nº 22



Nº 59

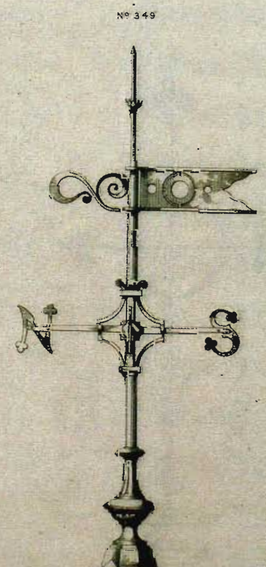


Nº 29

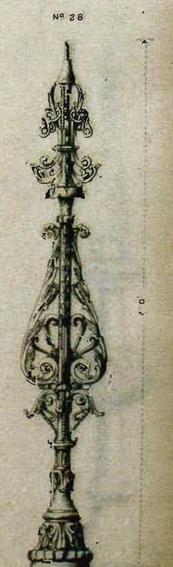


ARMS 4 WAYS

Nº 349



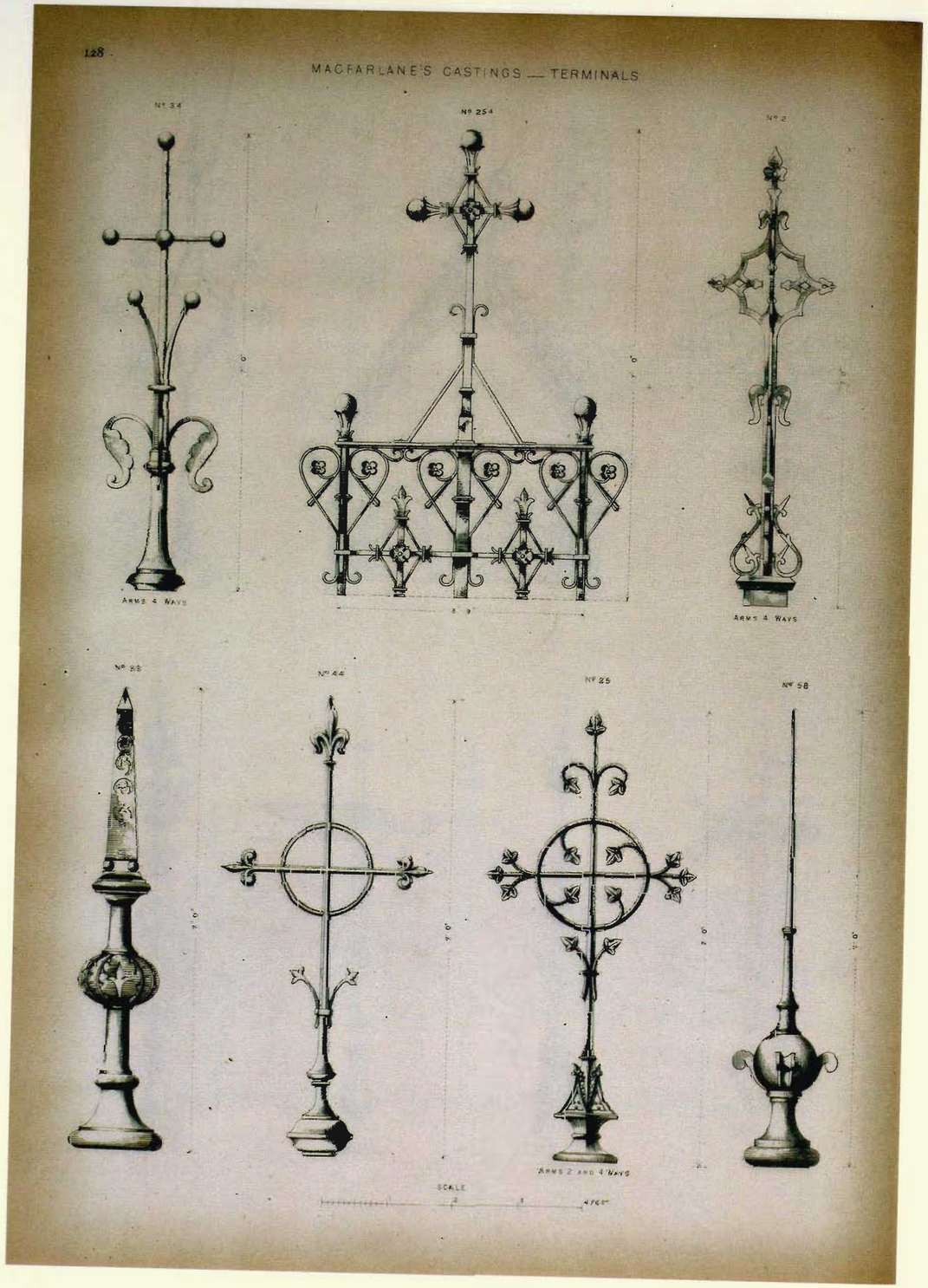
Nº 28

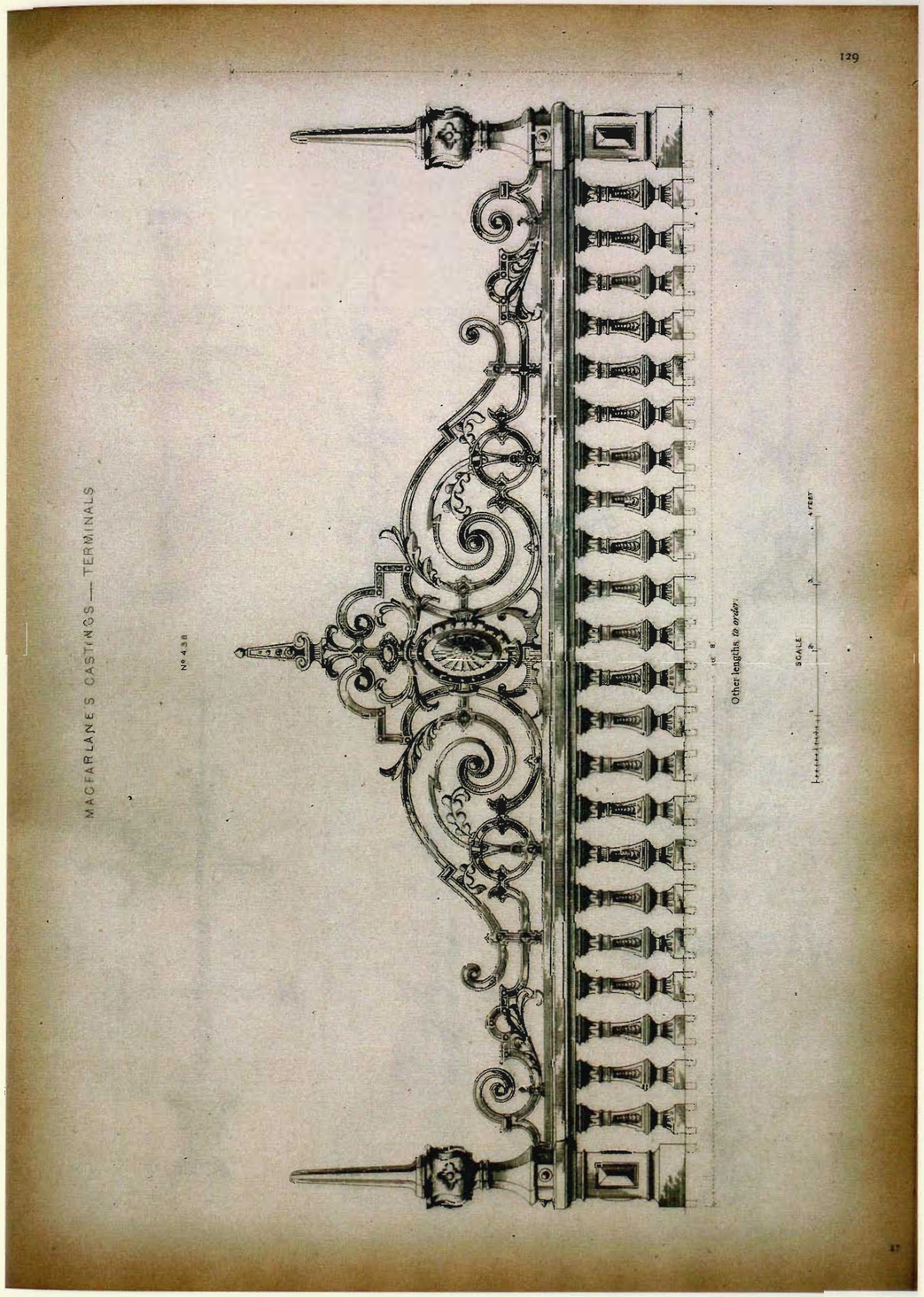


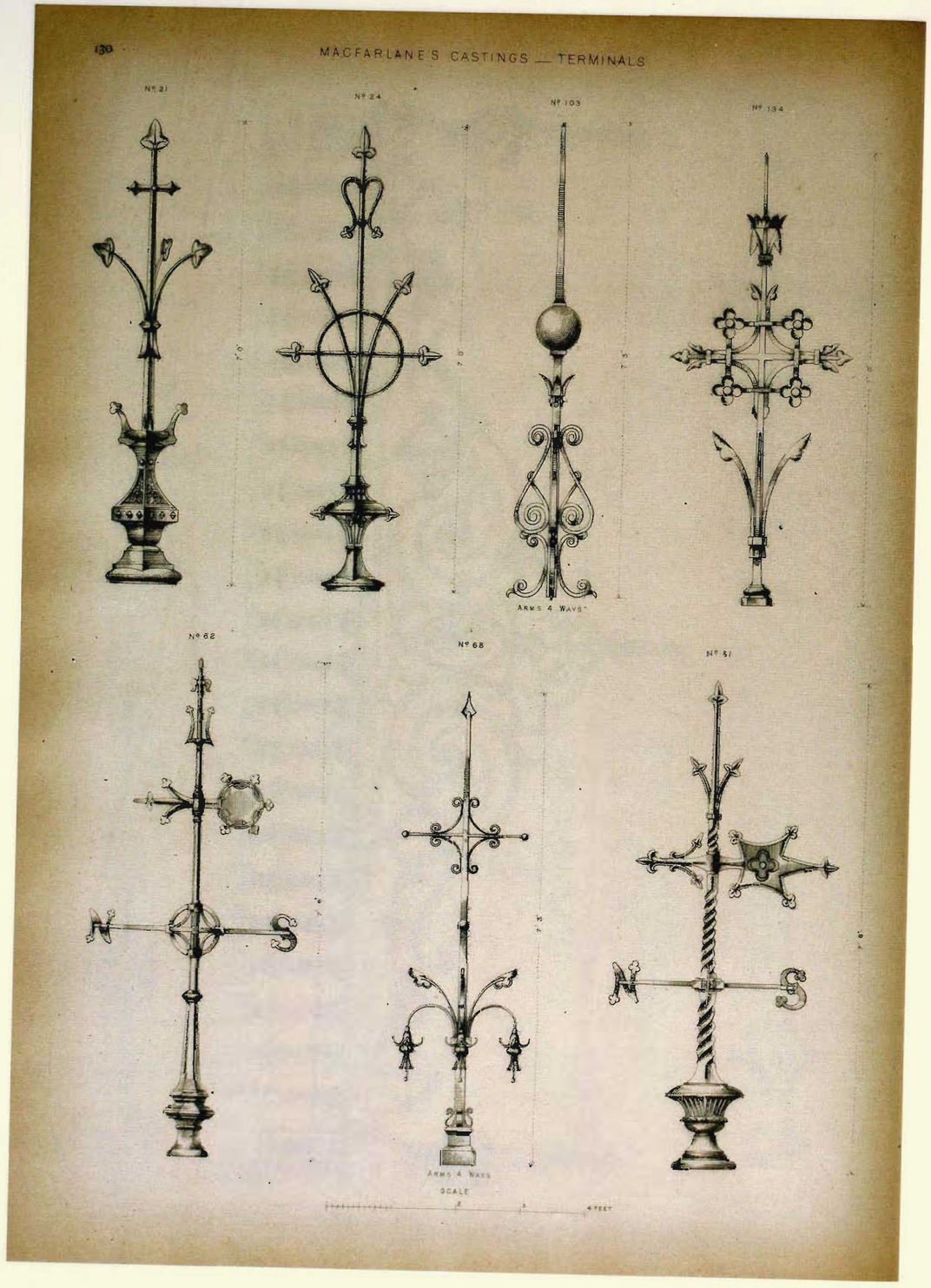
ARMS 4 WAYS

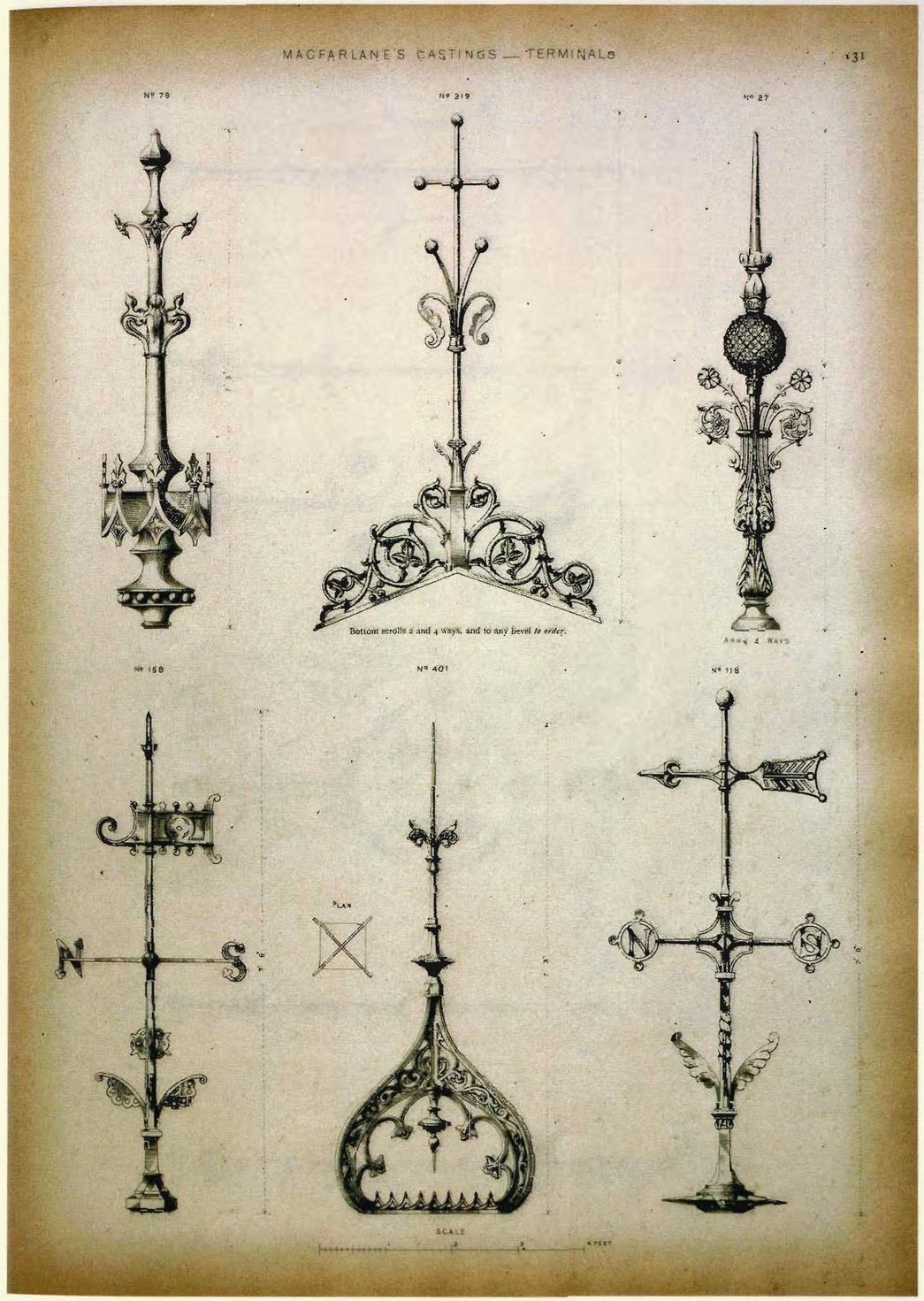
SCALE

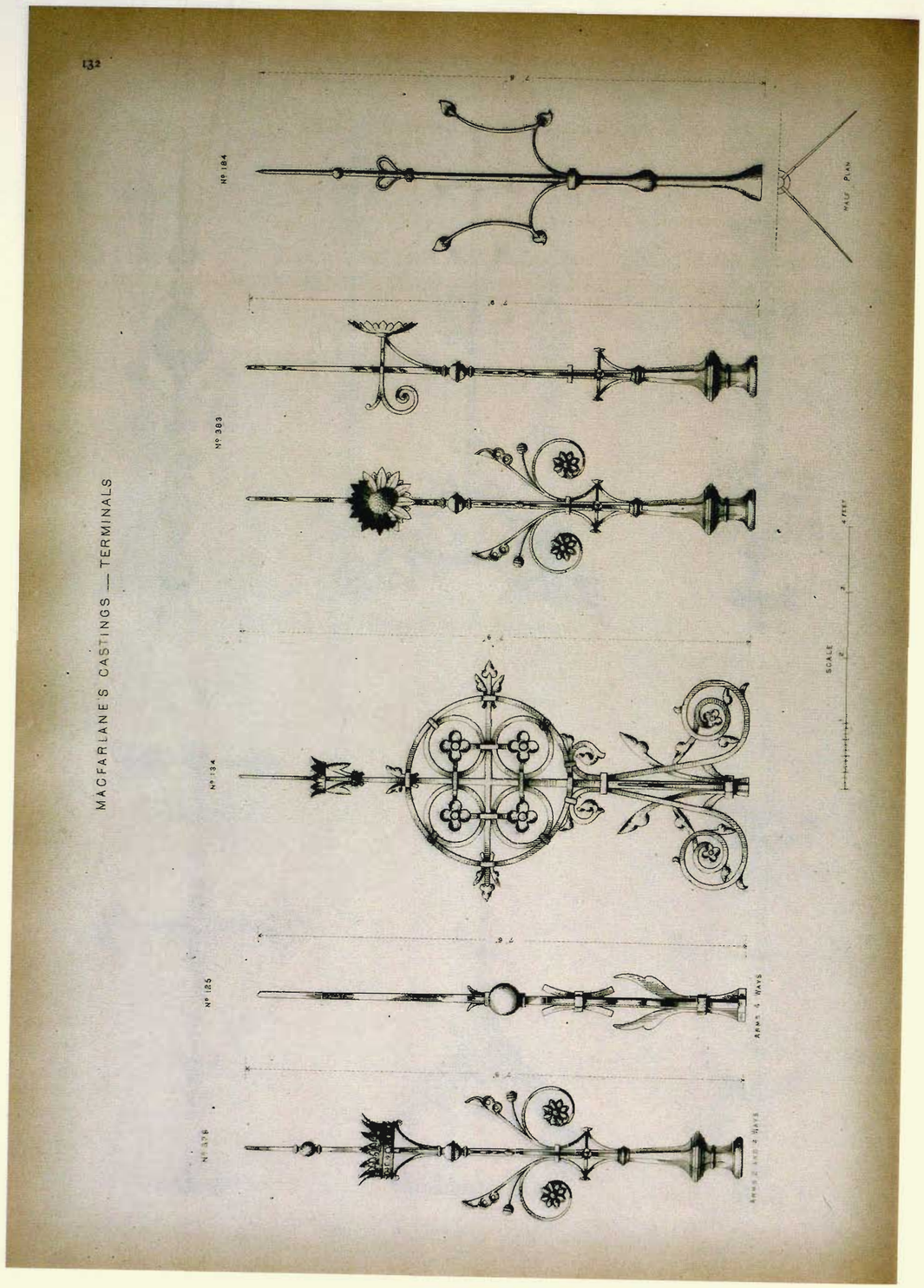
1 2 3 4 FEET

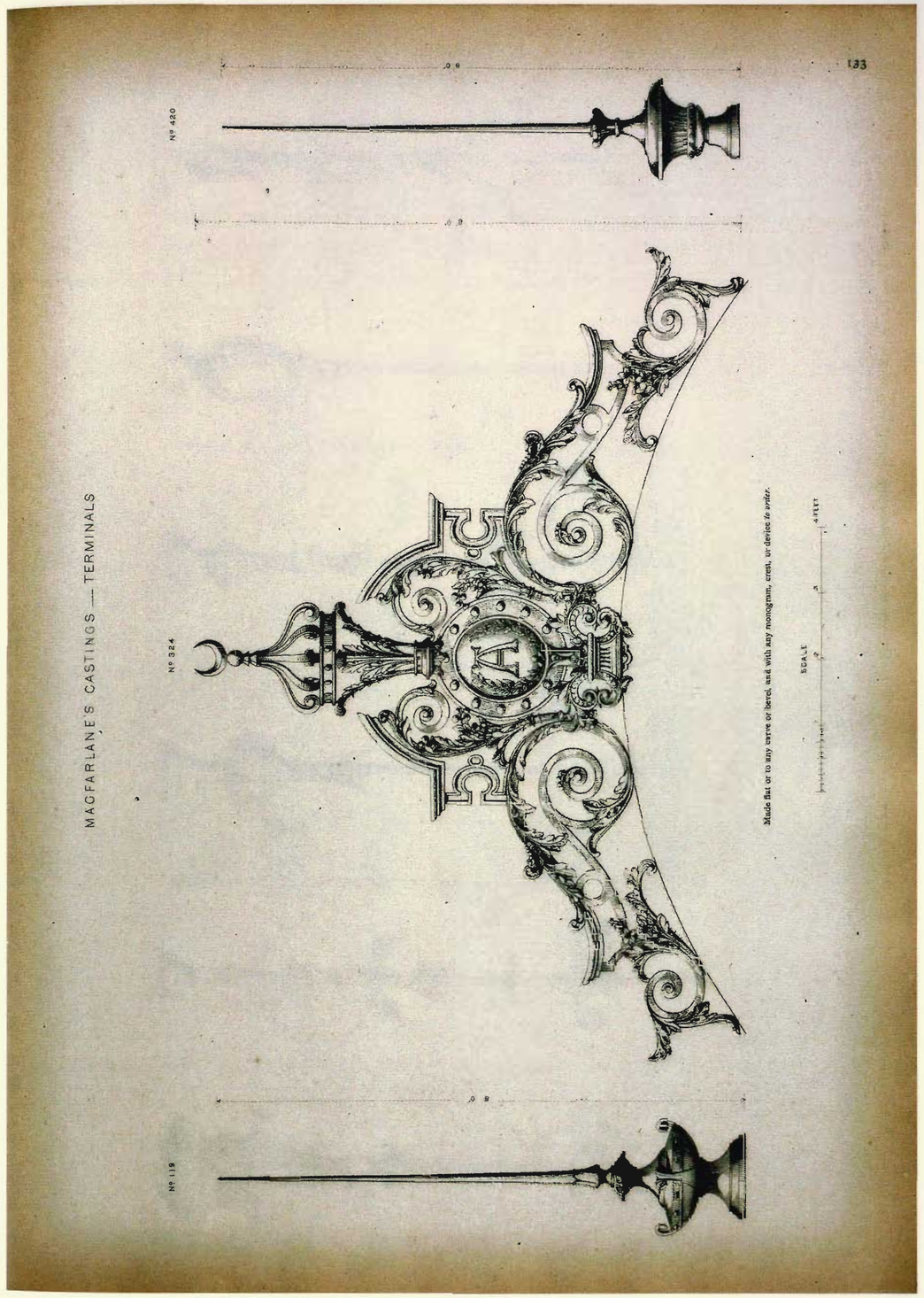

128
MACFARLANE'S CASTINGS — TERMINALS
Nº 34
Nº 254
Nº 2
ARMS 4 WAYS
ARMS 4 WAYS
Nº 58
Nº 44
Nº 25
Nº 58
ARMS 2 AND 4 WAYS
SCALE
1
2
3
4 FEET

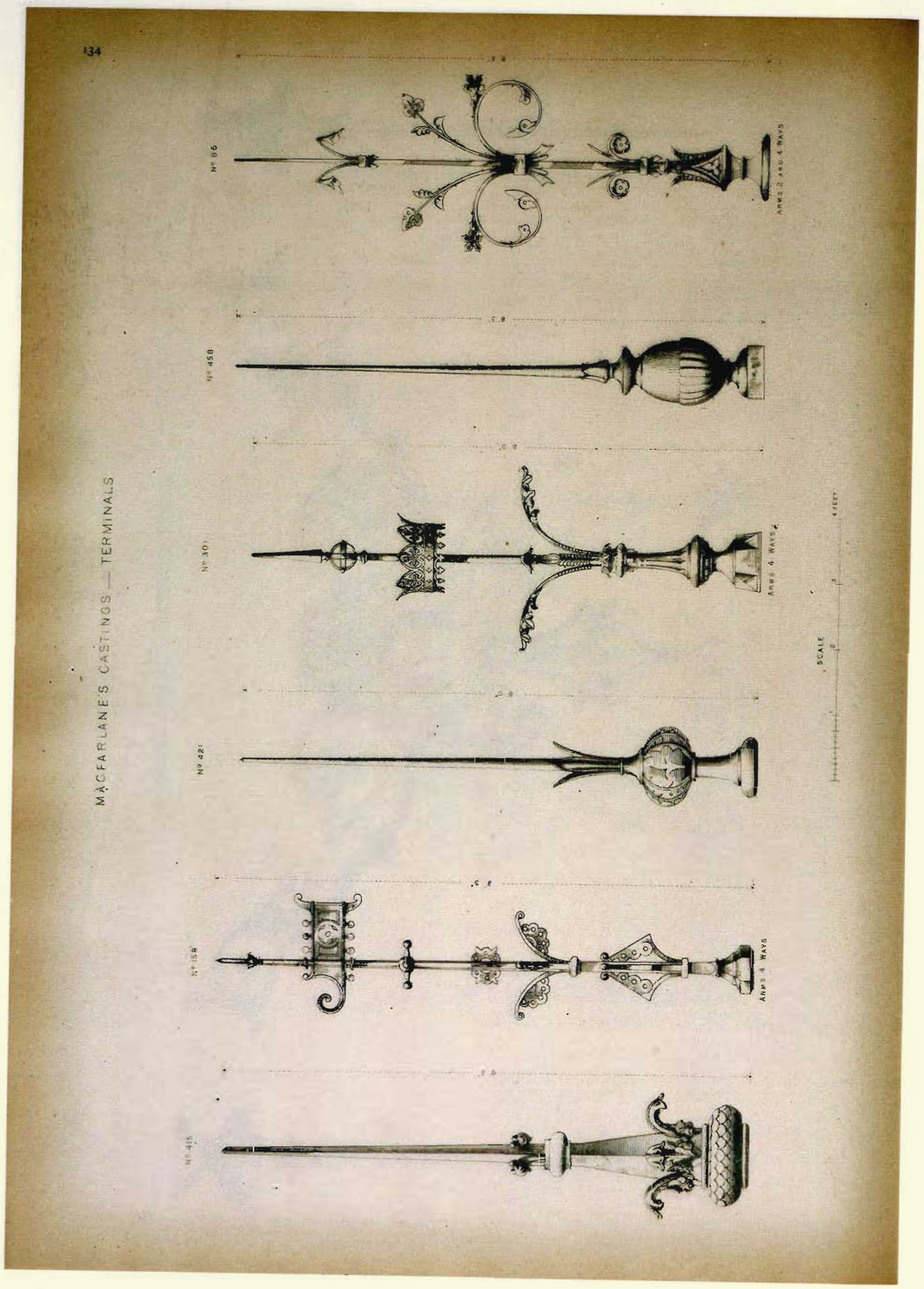

129
MACFARLANE'S CASTINGS — TERMINALS
Nº 438
Other lengths to order.
SCALE
1
2
3
4 FEET

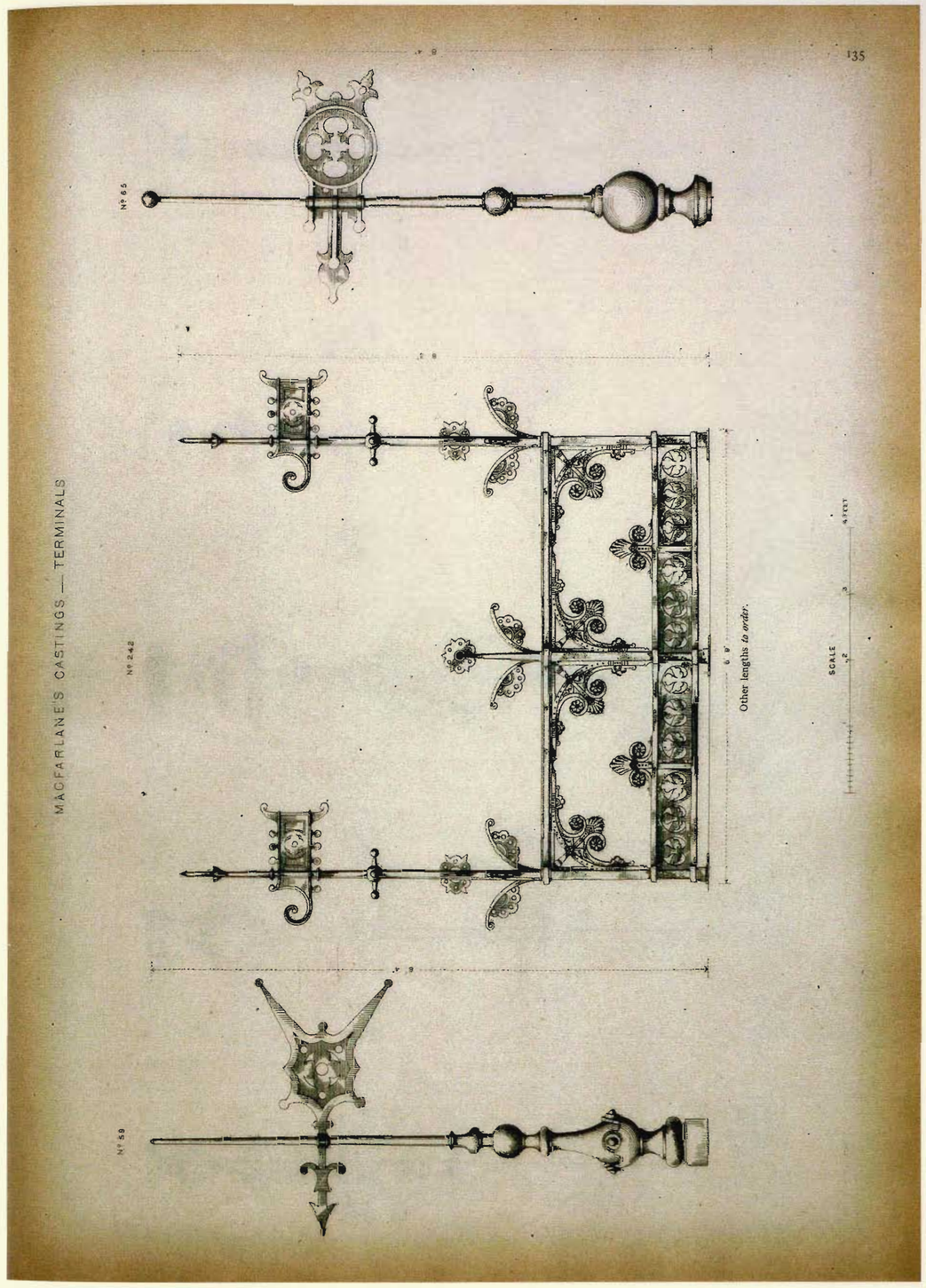

130
MACFARLANE'S CASTINGS — TERMINALS
Nº 21
Nº 24
Nº 103
Nº 134
ARMS 4 WAYS
Nº 62
Nº 68
Nº 51
N
S
ARMS 4 WAYS
SCALE
4 FEET

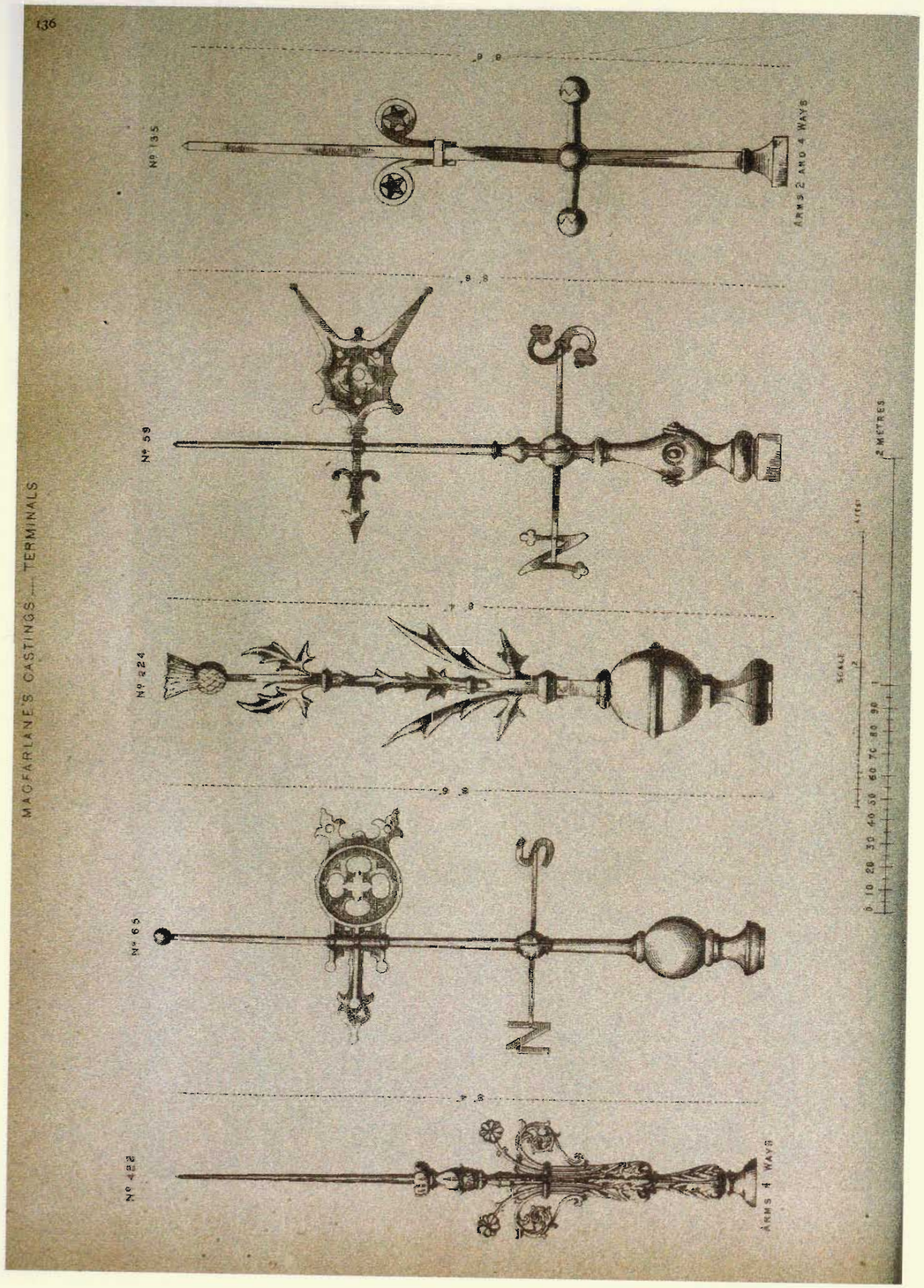

MACFARLANE'S CASTINGS — TERMINALS
131
Nº 79
Nº 219
Nº 27
Bottom scrolls 2 and 4 ways, and to any bevel to order.
ARMS 4 WAYS
Nº 158
Nº 401
Nº 118
N
S
PLAN
SCALE
4 FEET

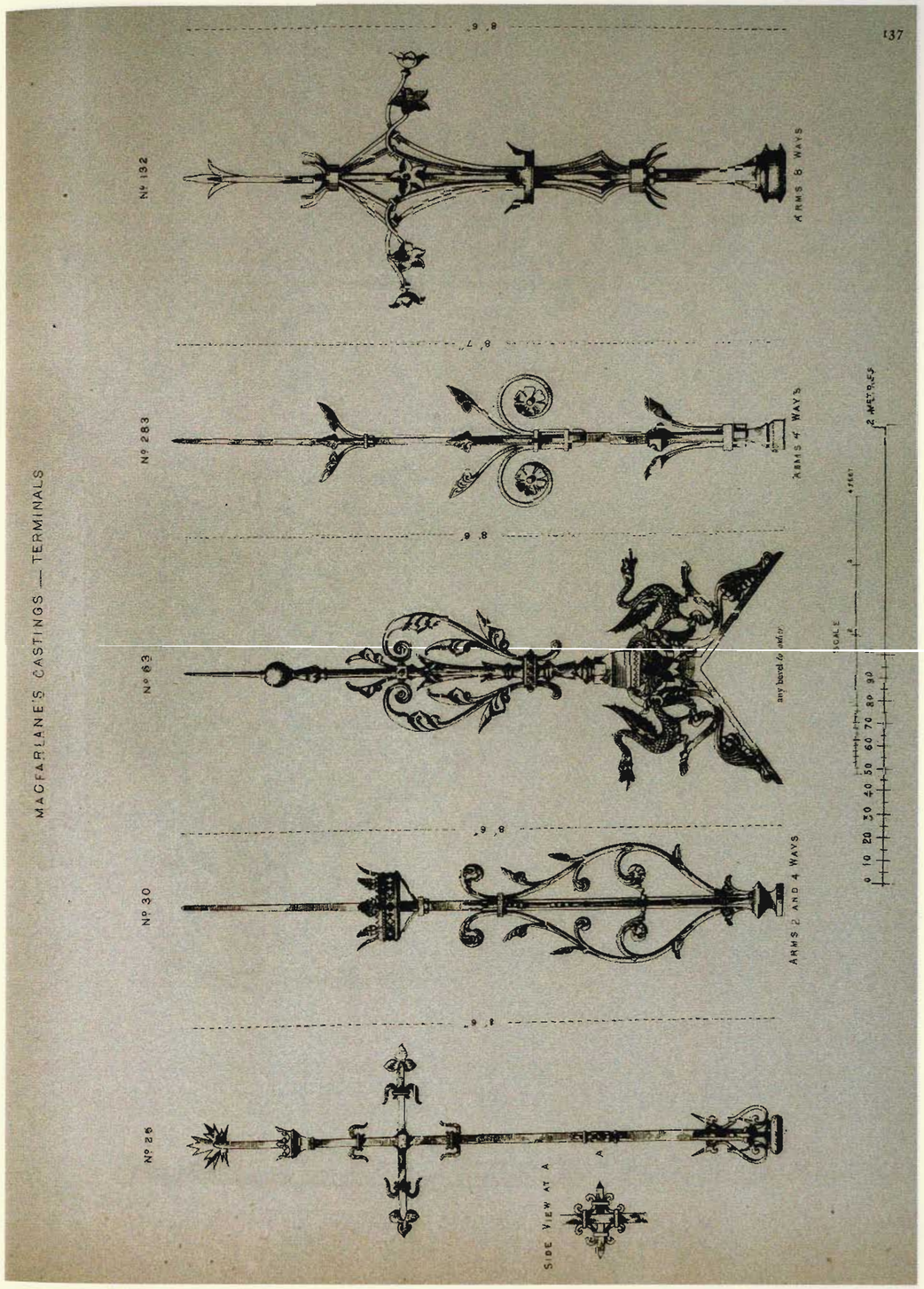

132
MACFARLANE'S CASTINGS — TERMINALS
Nº 184
HALF PLAN
Nº 393
Nº 134
Nº 125
Nº 376
SCALE
4 FEET

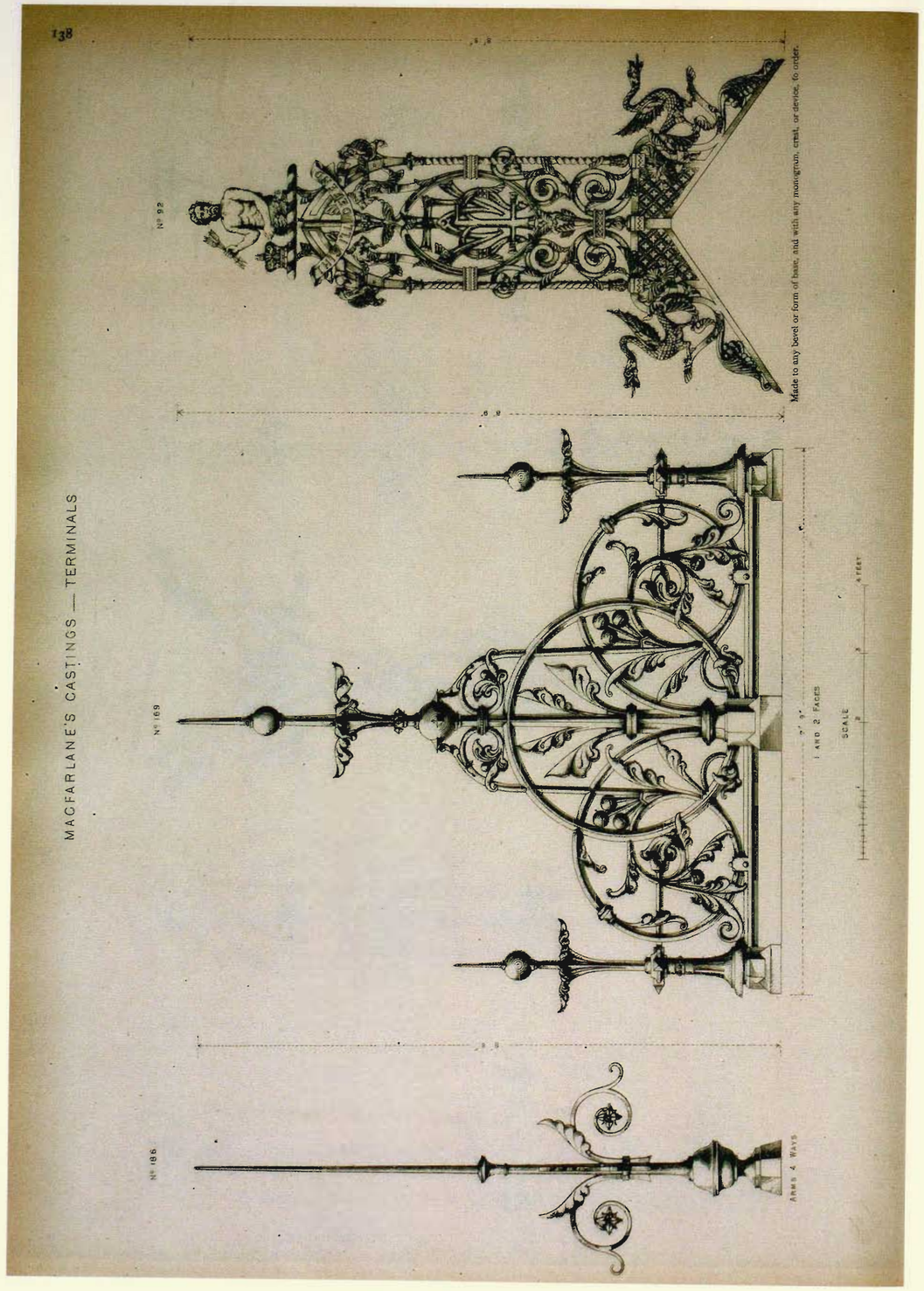

133
MACFARLANE'S CASTINGS — TERMINALS
Nº 420
Nº 324
Nº 119
Made flat or to any curve or bevel, and with any monogram, crest, or device to order.
SCALE
4 FEET

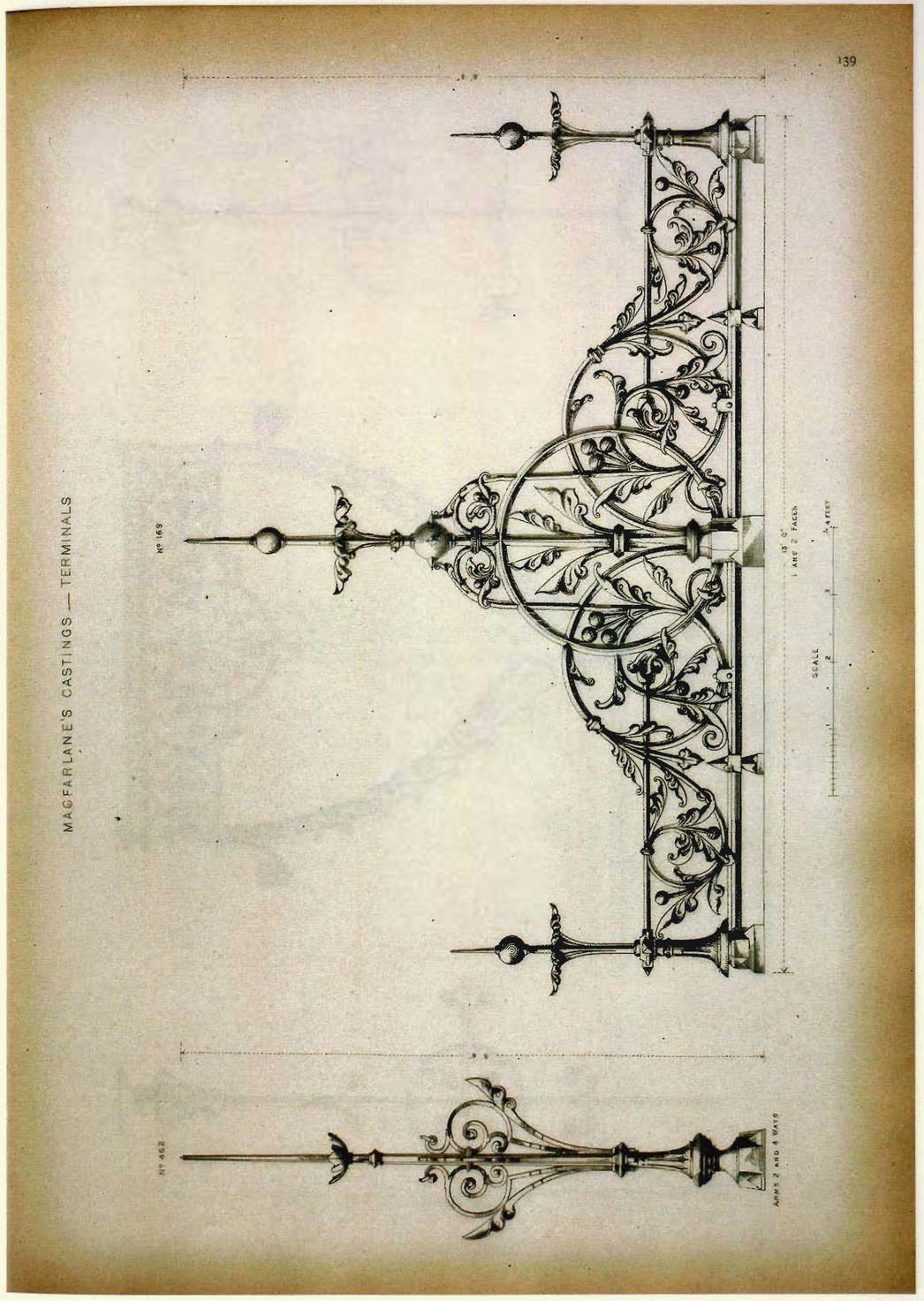

134
MACFARLANE'S CASTINGS — TERMINALS
No 86
ARMS 2 AND 4 WAYS
No 458
No 301
ARMS 4 WAYS
SCALE
No 421
No 158
ARMS 4 WAYS
No 415

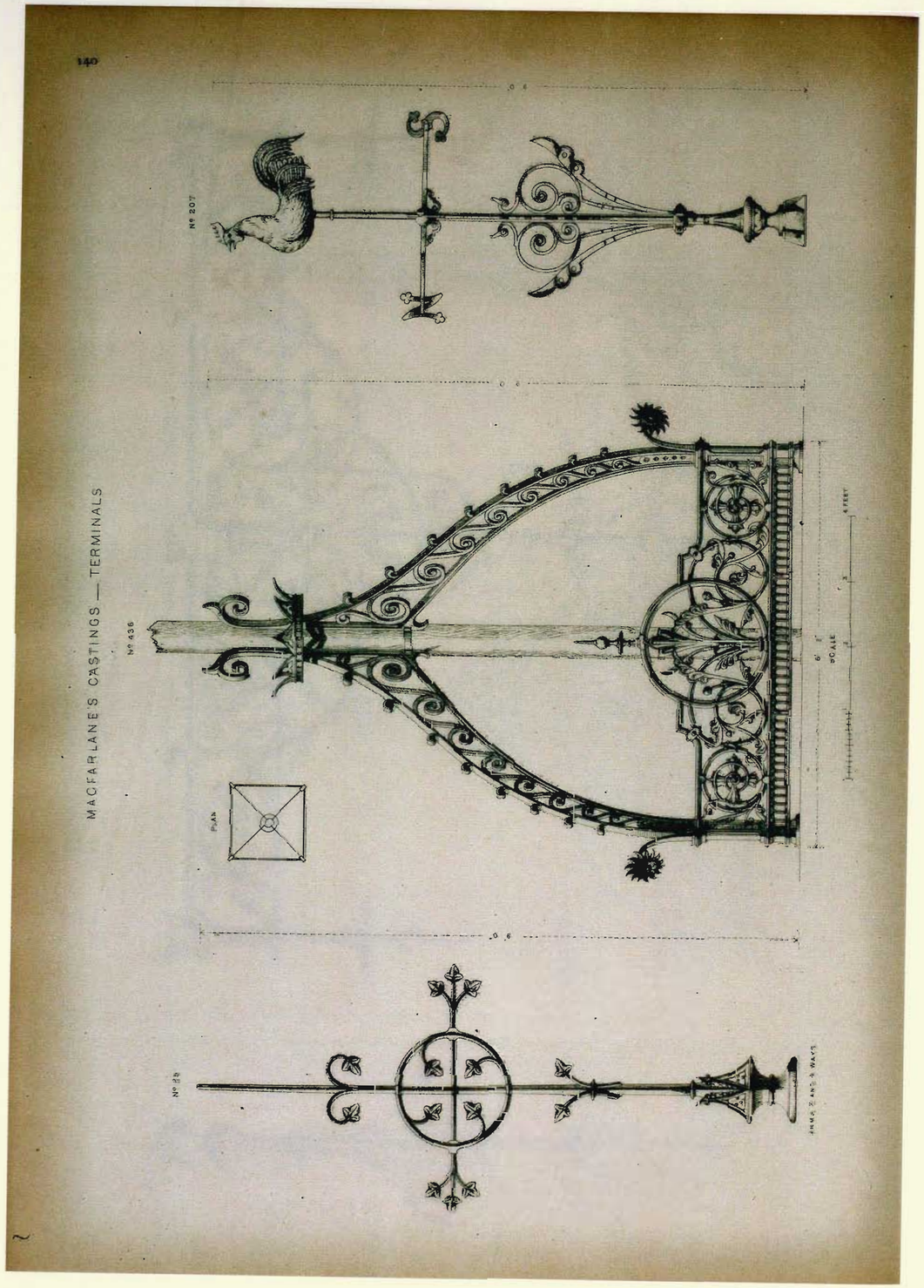

135
MACFARLANE'S CASTINGS — TERMINALS
No 65
No 242
Other lengths to order.
SCALE
No 59

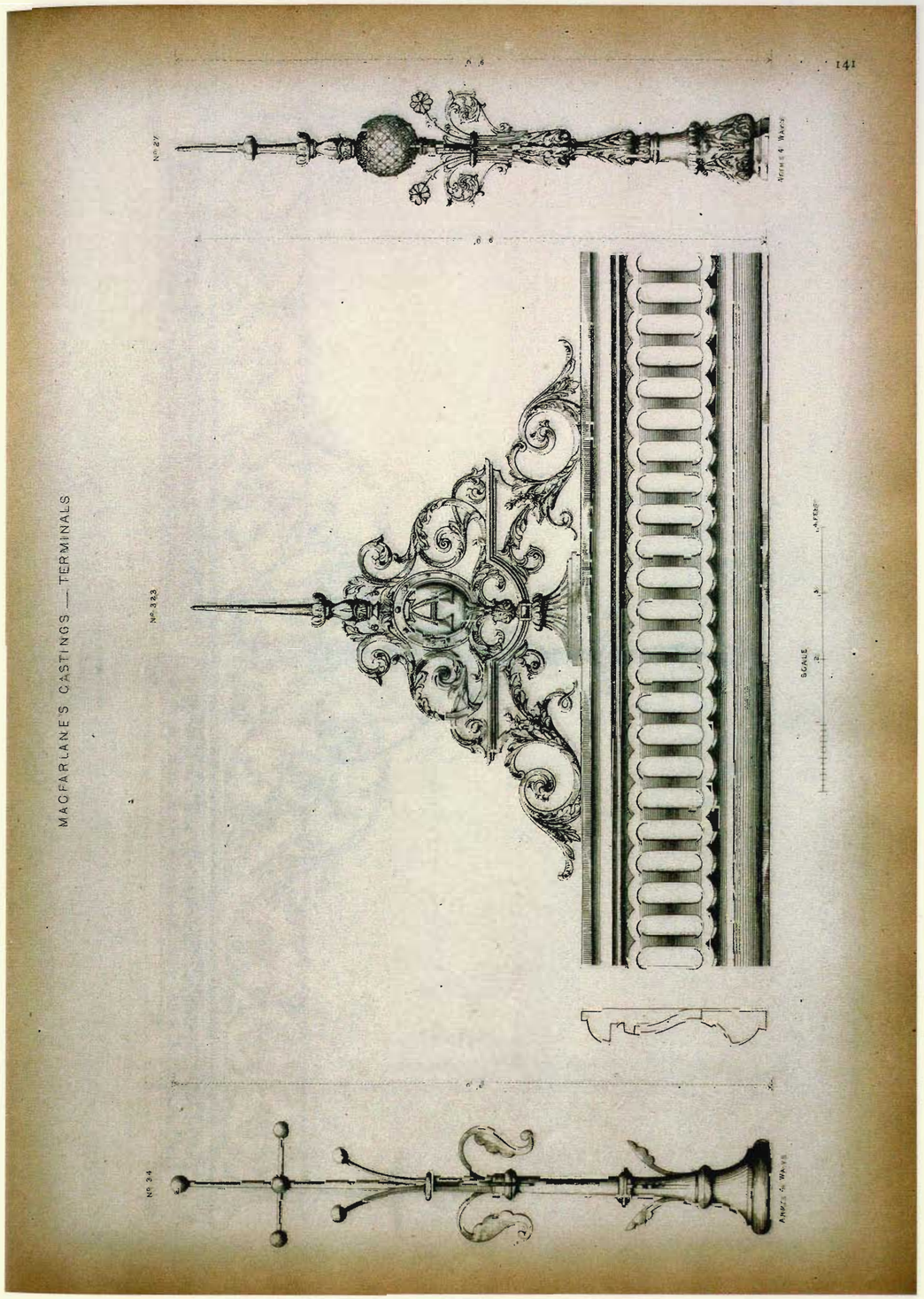

MACFARLANE'S CASTINGS — TERMINALS
Nº 135
ARMS 2 AND 4 WAYS
Nº 59
Nº 224
Nº 65
Nº 422
ARMS 4 WAYS
SCALE
2 METRES

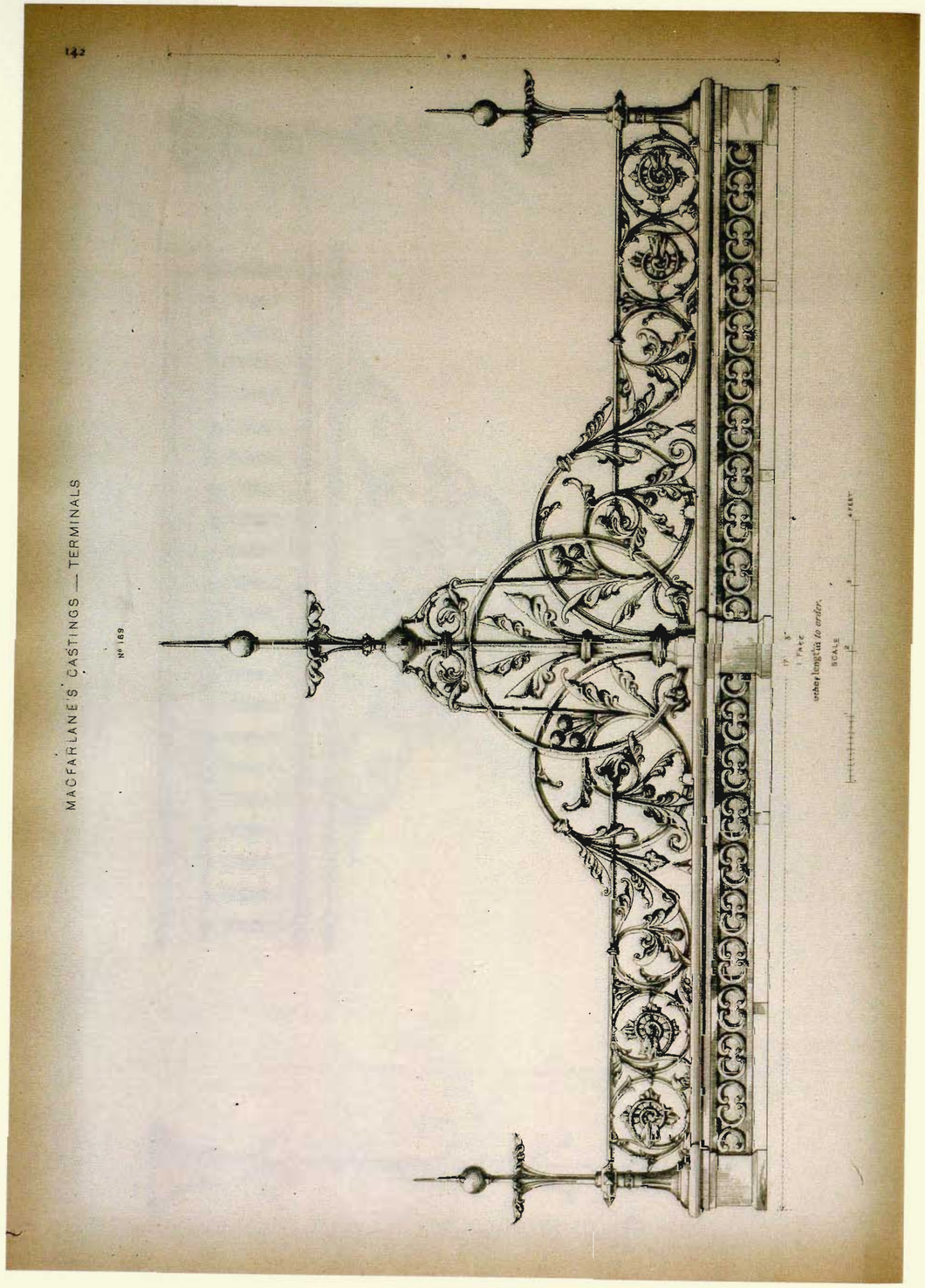

MACFARLANE'S CASTINGS — TERMINALS
Nº 132
ARMS 8 WAYS
Nº 283
ARMS 4 WAYS
Nº 63
Nº 30
ARMS 2 AND 4 WAYS
Nº 26
SIDE VIEW AT A
SCALE
2 METRES

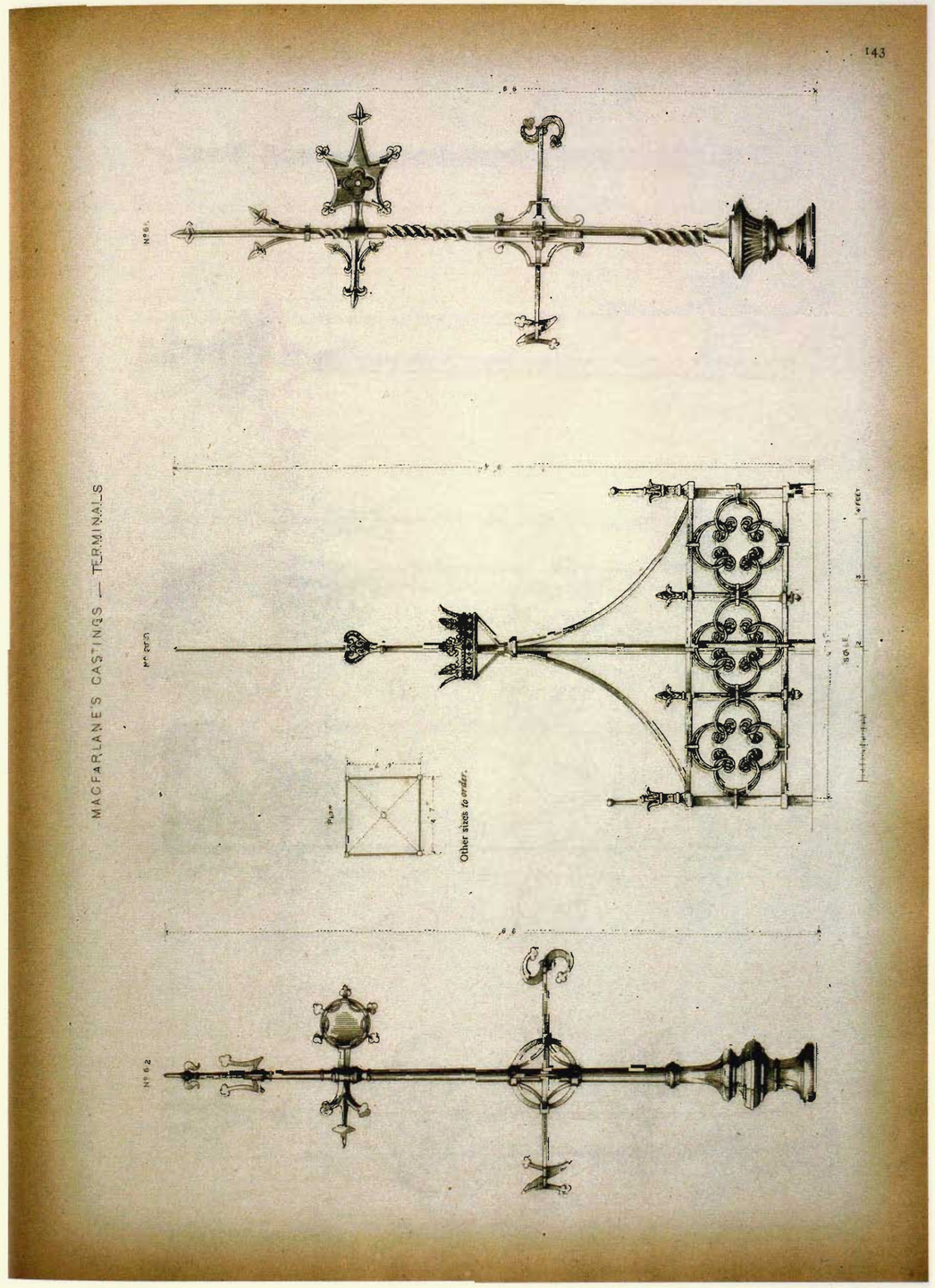

138
MACFARLANE'S CASTINGS — TERMINALS
Nº 92
Made to any bevel or form of base, and with any monogram, crest, or device, to order.
Nº 169
1 AND 2 FACES
SCALE
Nº 186
ARMS 4 WAYS

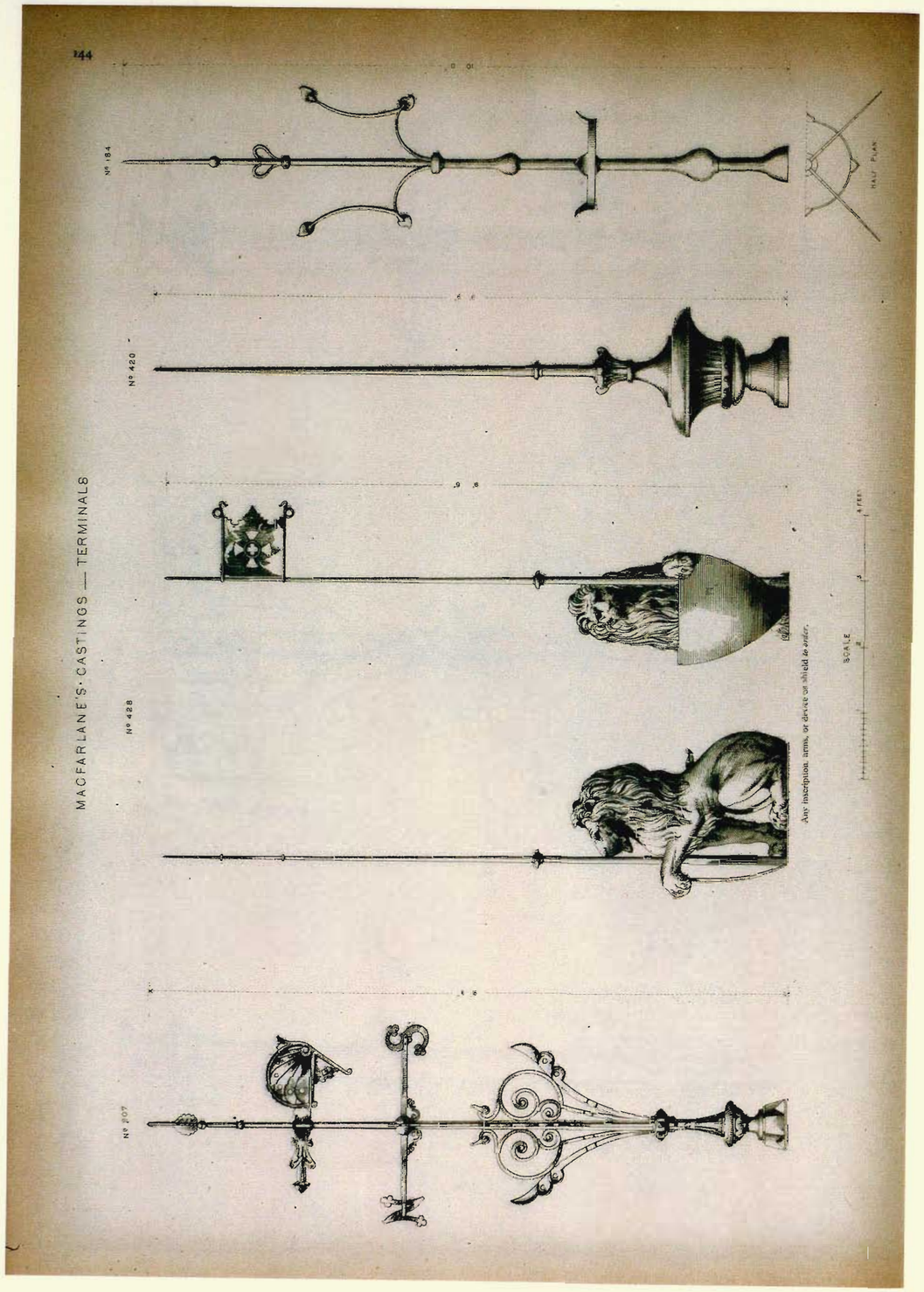

139
MACFARLANE'S CASTINGS — TERMINALS
Nº 169
1 AND 2 FACES
SCALE
Nº 462
ARMS 2 AND 4 WAYS

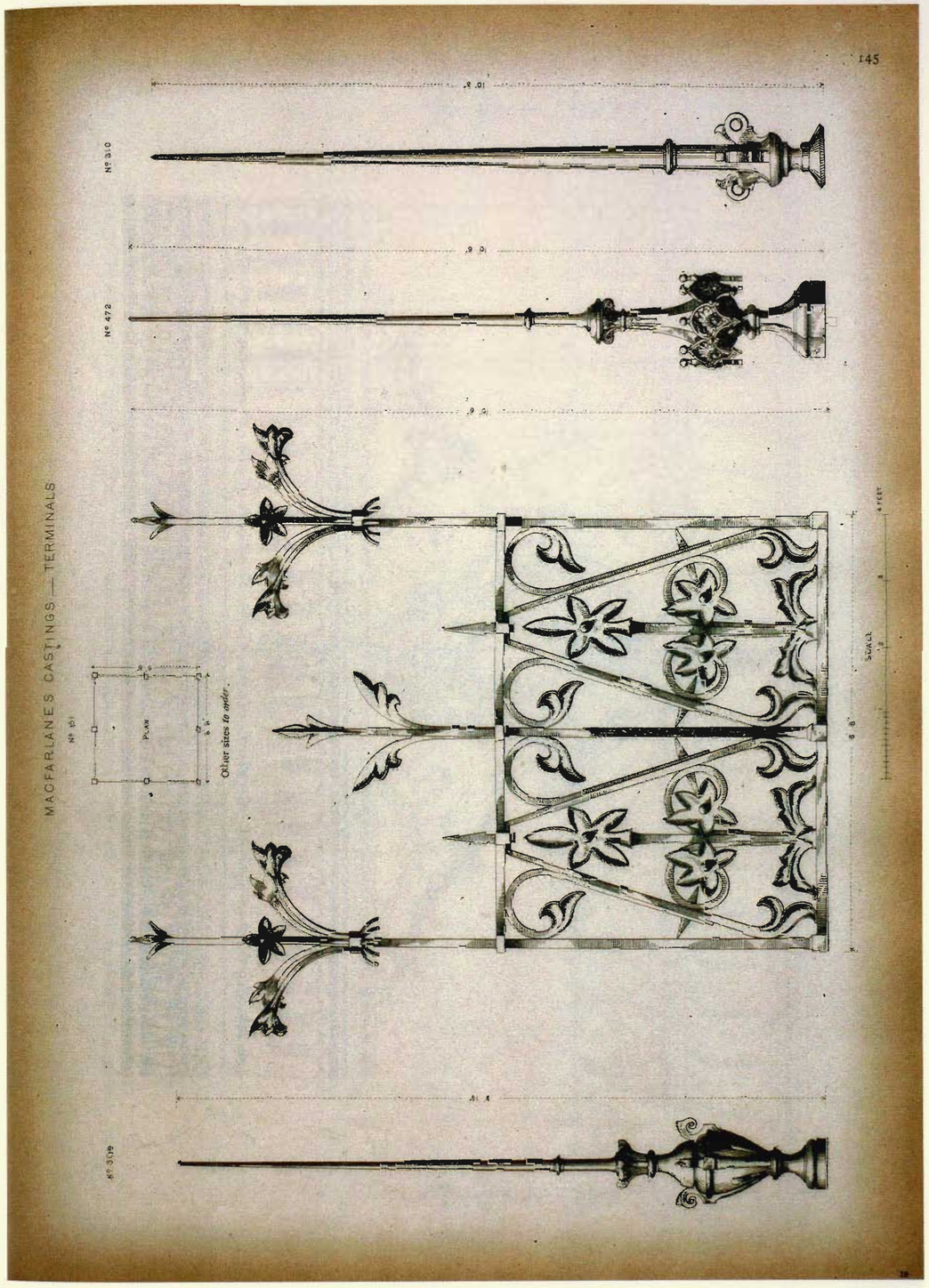

140
MACFARLANE'S CASTINGS — TERMINALS
No 436
No 207
No 28
PLAN
SCALE
4 FEET

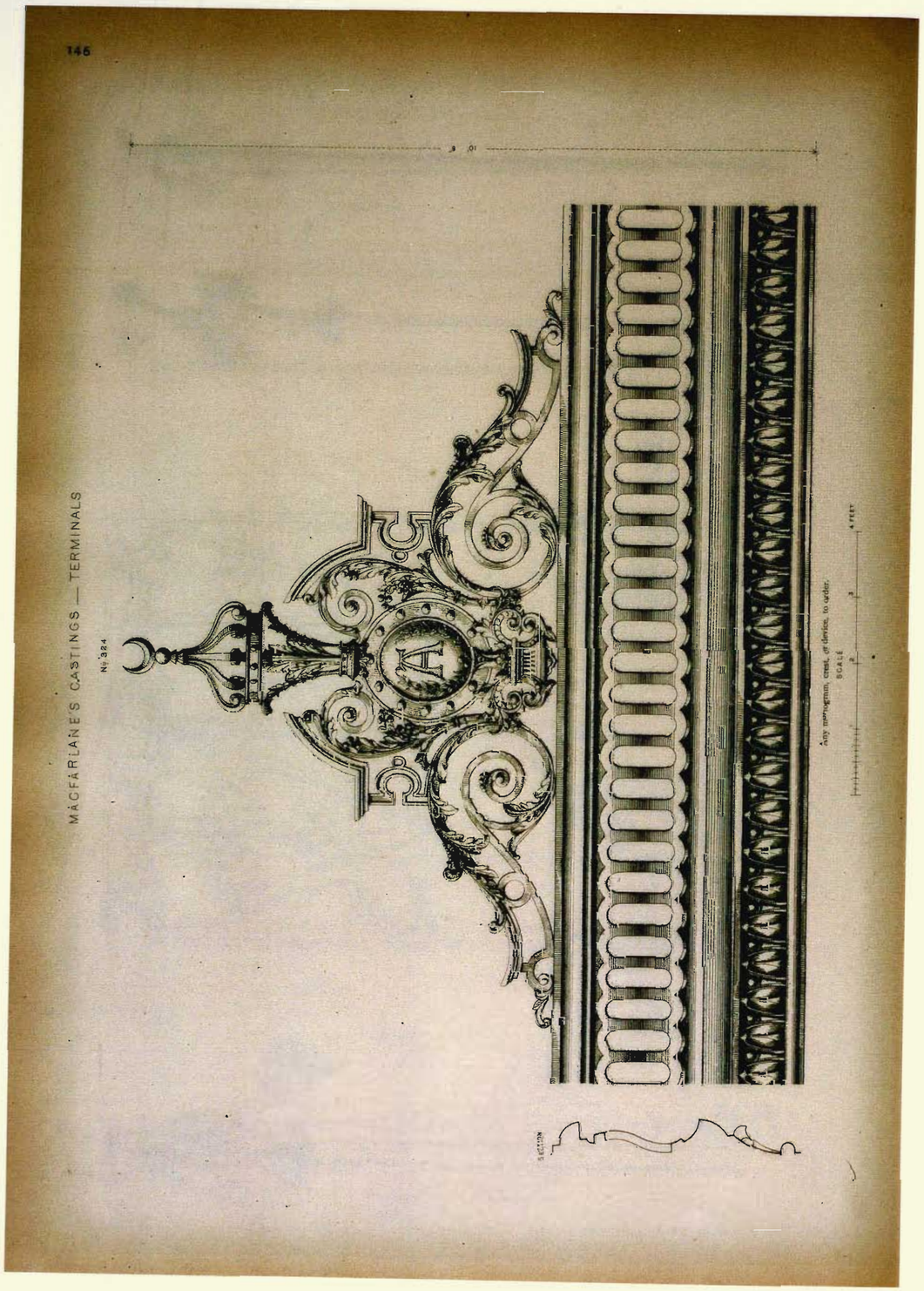

141
MACFARLANE'S CASTINGS — TERMINALS
No 323
No 27
No 34
SCALE

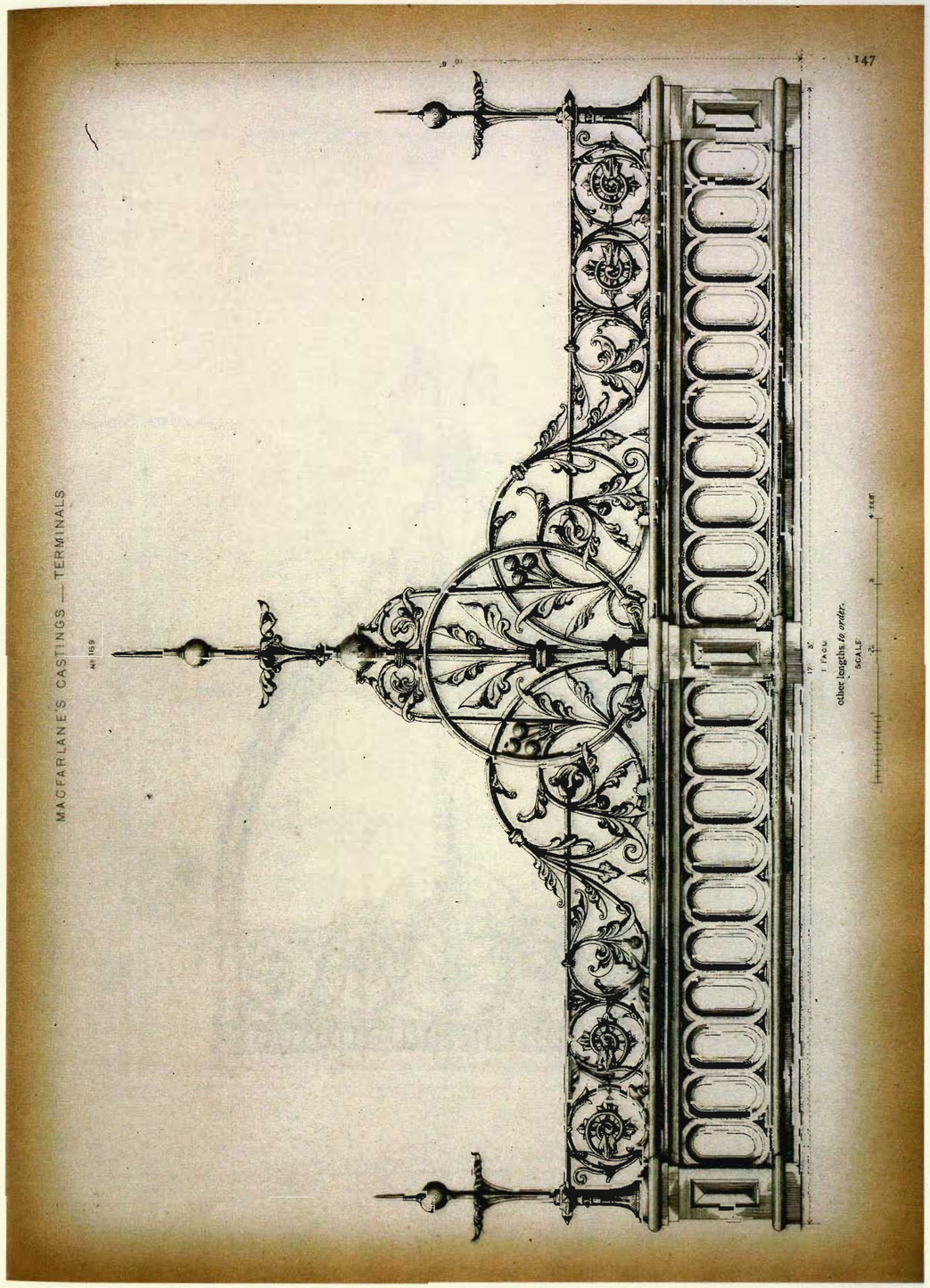

142
MACFARLANE'S CASTINGS — TERMINALS
Nº 169
SCALE
FEET

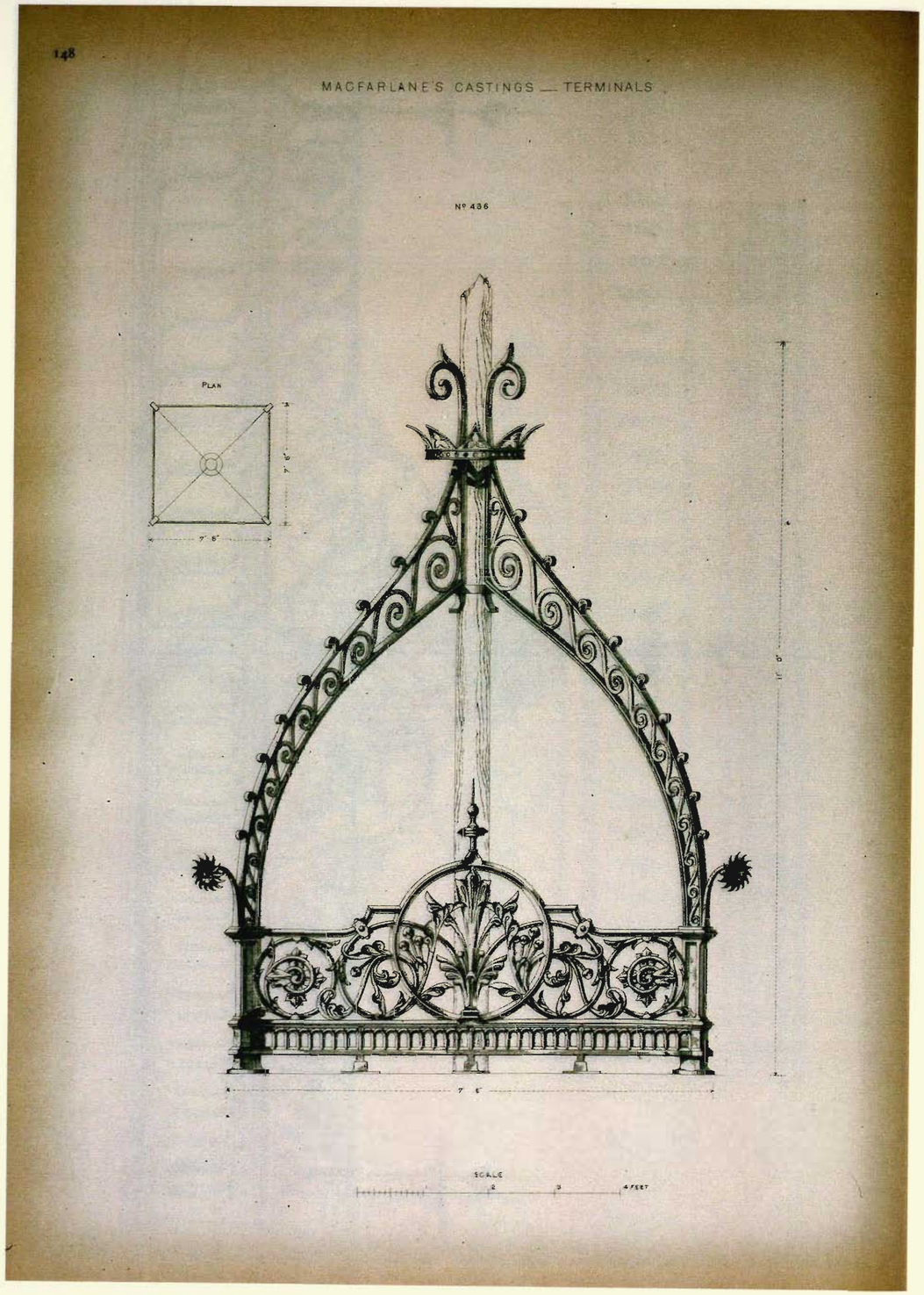

143
MACFARLANE'S CASTINGS — TERMINALS
Nº 61
Nº 62
Other sizes to order.
SCALE
FEET

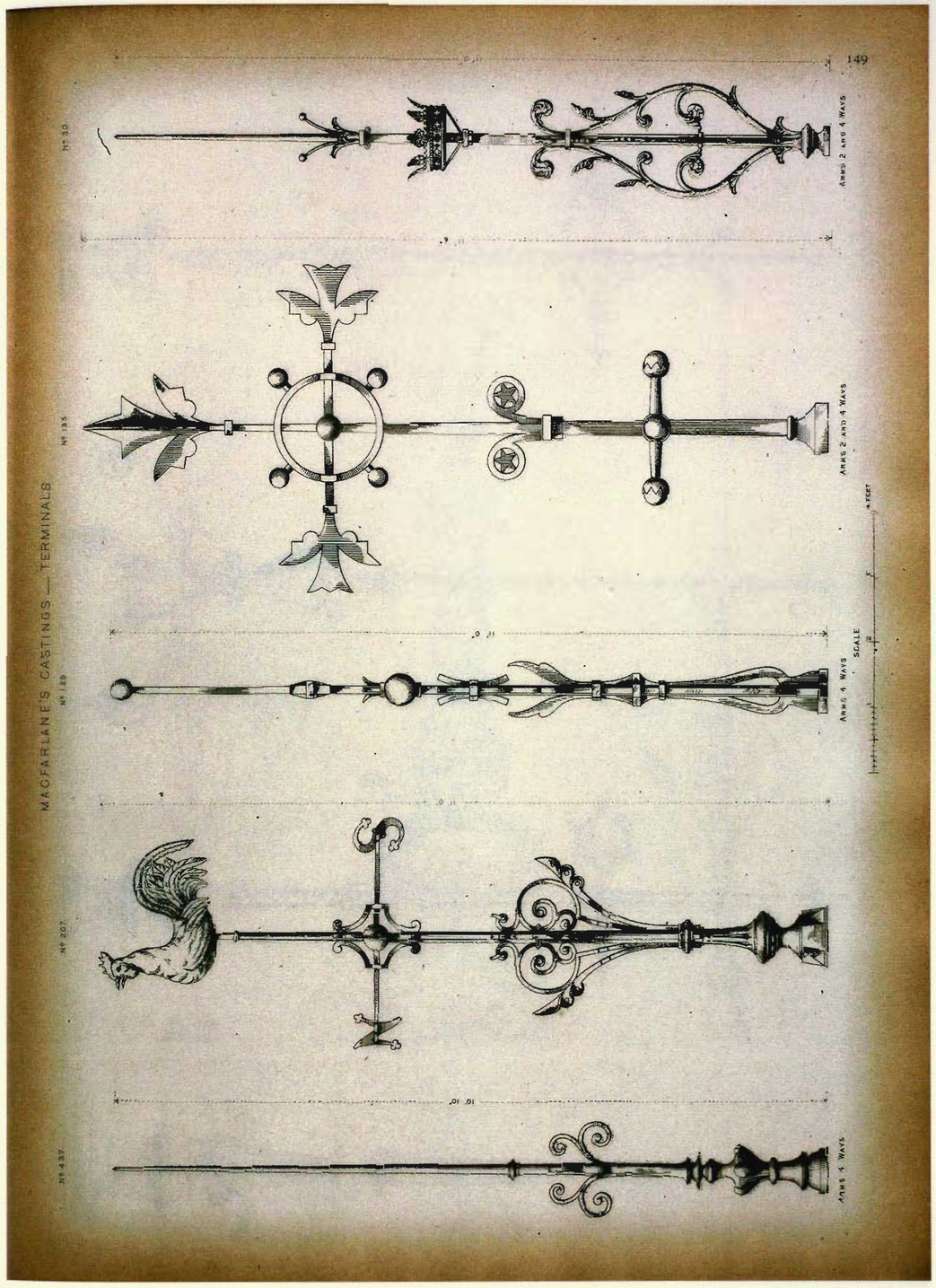

144
MACFARLANE'S · CASTINGS — TERMINALS
No 184
HALF PLAN
No 420
No 428
No 207
SCALE
4 FEET

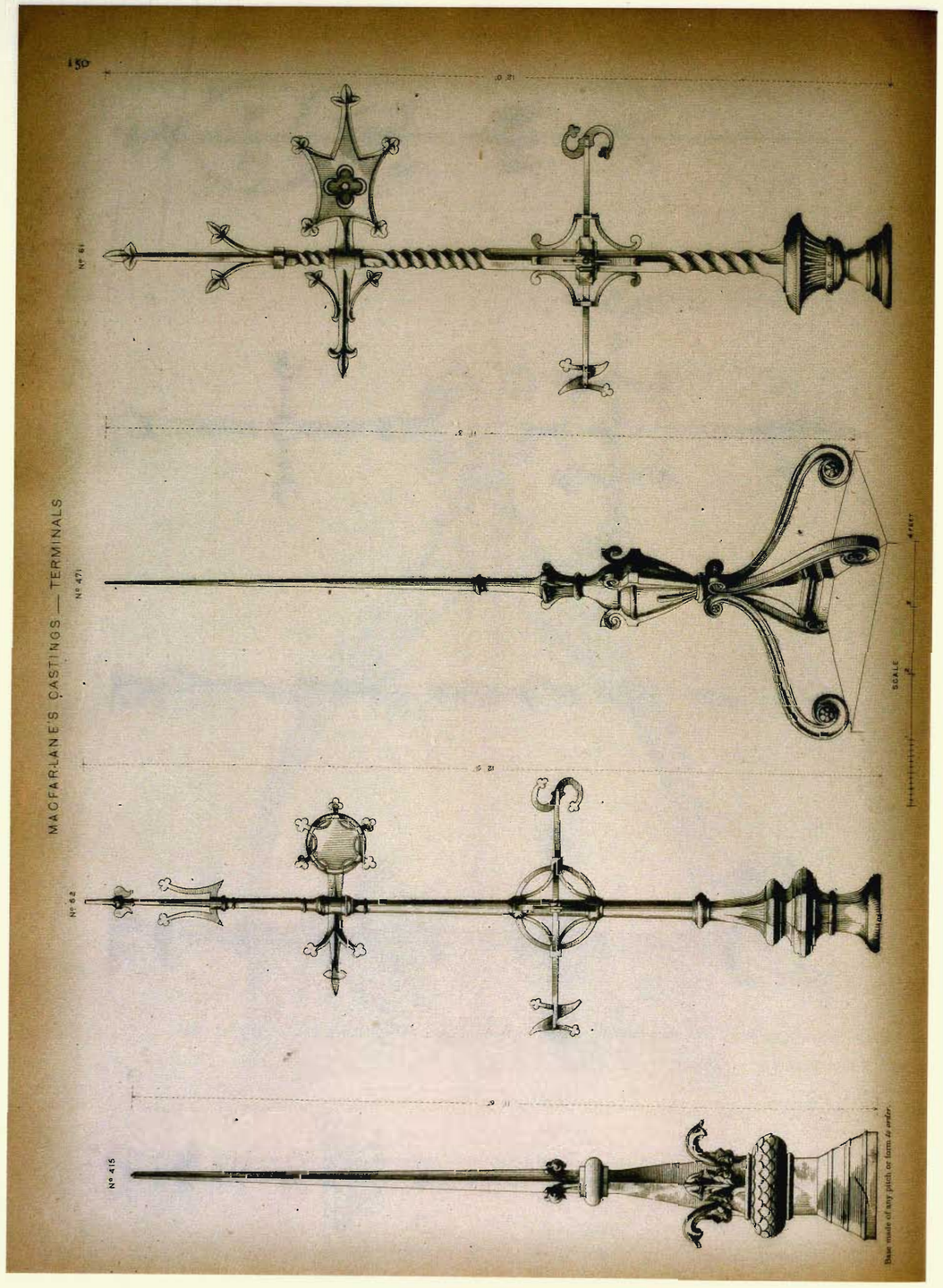

145
MACFARLANES CASTINGS — TERMINALS
No 310
No 472
No 151
Other sizes to order.
No 309
SCALE
4 FEET

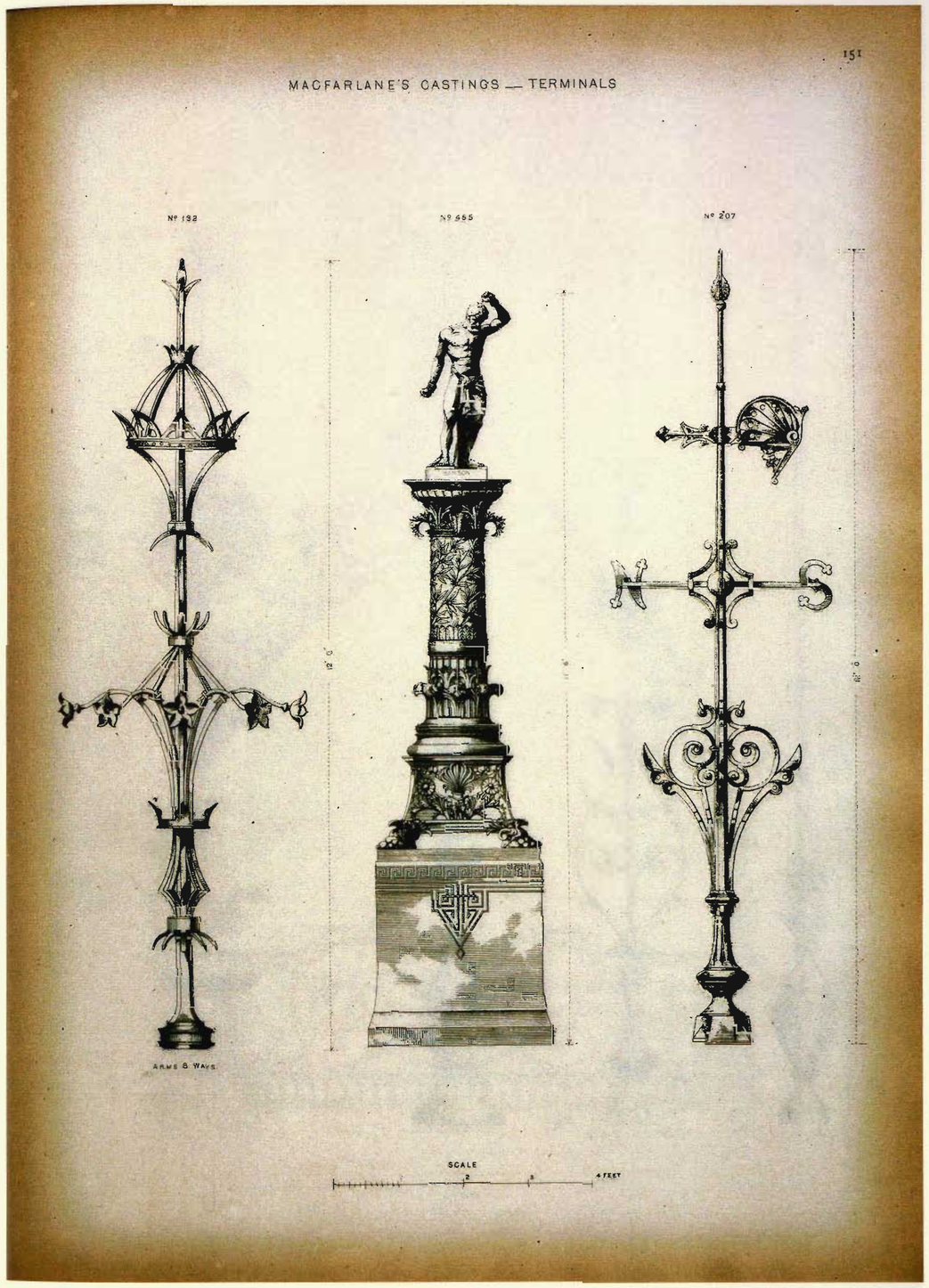

146
MACFARLANE'S CASTINGS — TERMINALS
No. 384
Any monogram, crest, or device, to order.
SCALE
4 FEET

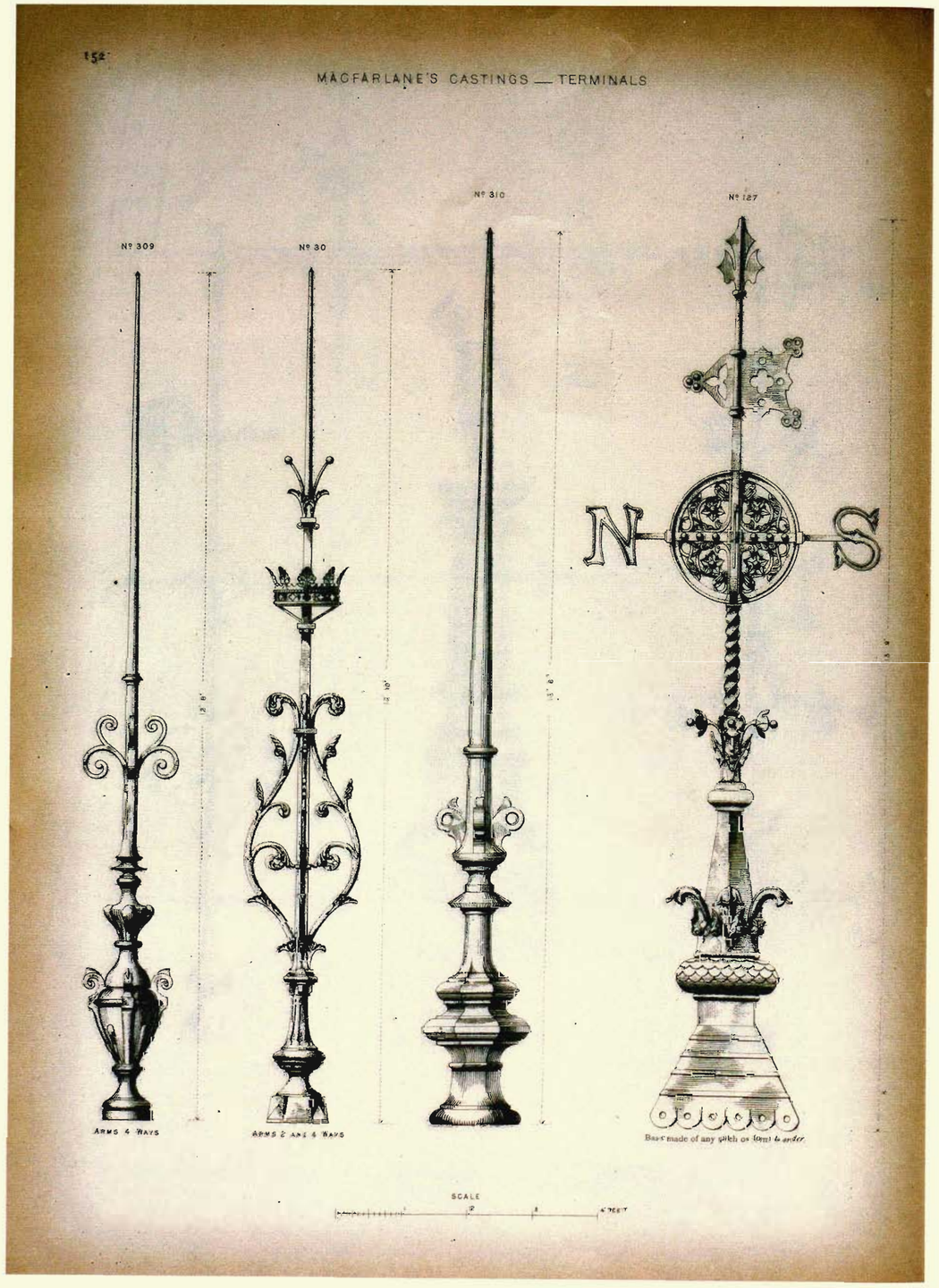

147
MACFARLANE'S CASTINGS — TERMINALS
other lengths to order.
SCALE
4 FEET

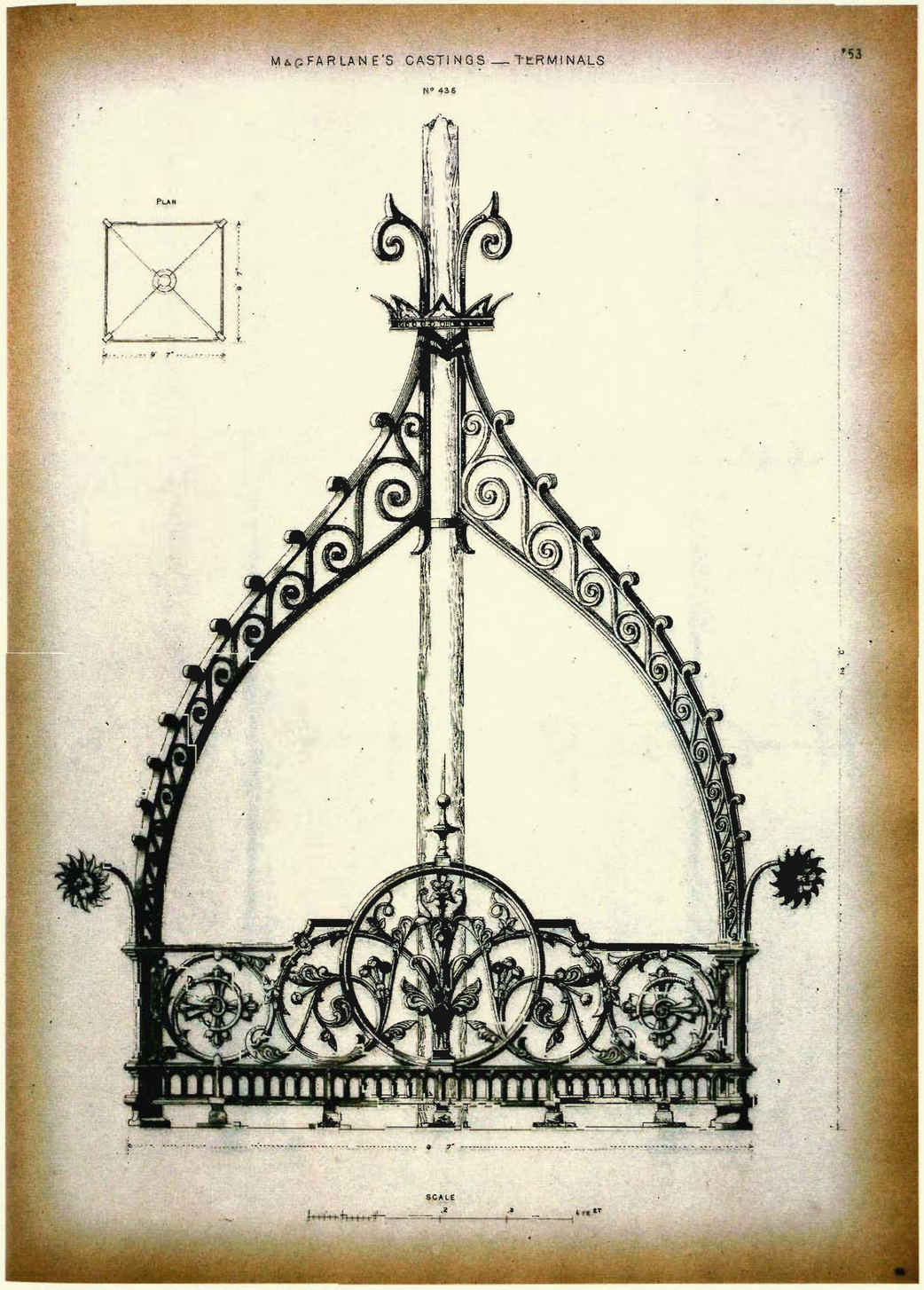

148
MACFARLANE'S CASTINGS — TERMINALS
Nº 436
PLAN
7' 6"
7' 6"
11' 0"
7' 6"
SCALE
2
3
4 FEET

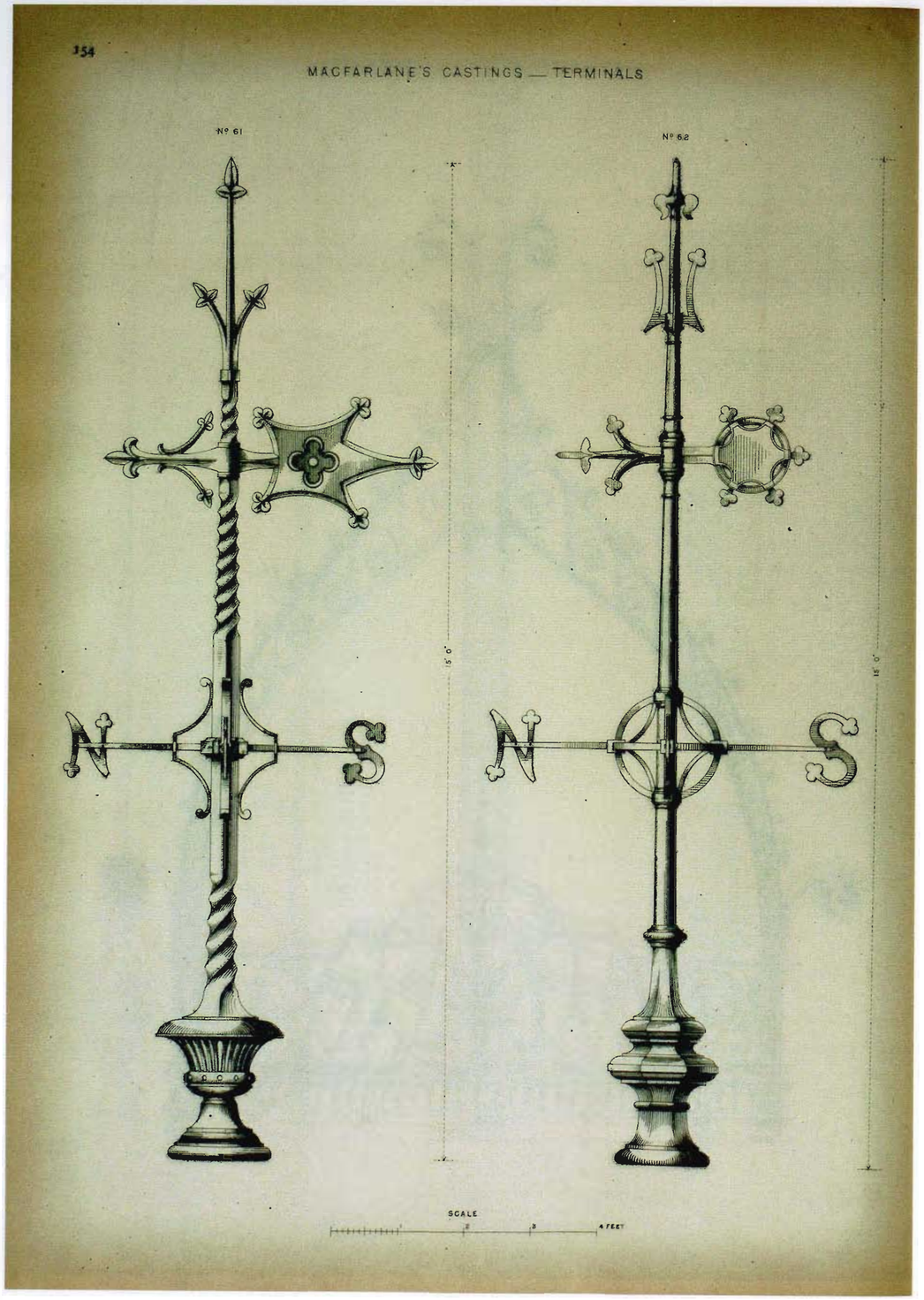

149
MACFARLANE'S CASTINGS — TERMINALS
Nº 30
ARMS 2 AND 4 WAYS
Nº 135
ARMS 2 AND 4 WAYS
Nº 185
ARMS 4 WAYS
Nº 207
Nº 437
ARMS 4 WAYS
SCALE
4 FEET


150
MACFARLANE'S CASTINGS — TERMINALS
Nº 61
Nº 471
Nº 62
Nº 415
SCALE
Base made of any pitch or form to order.

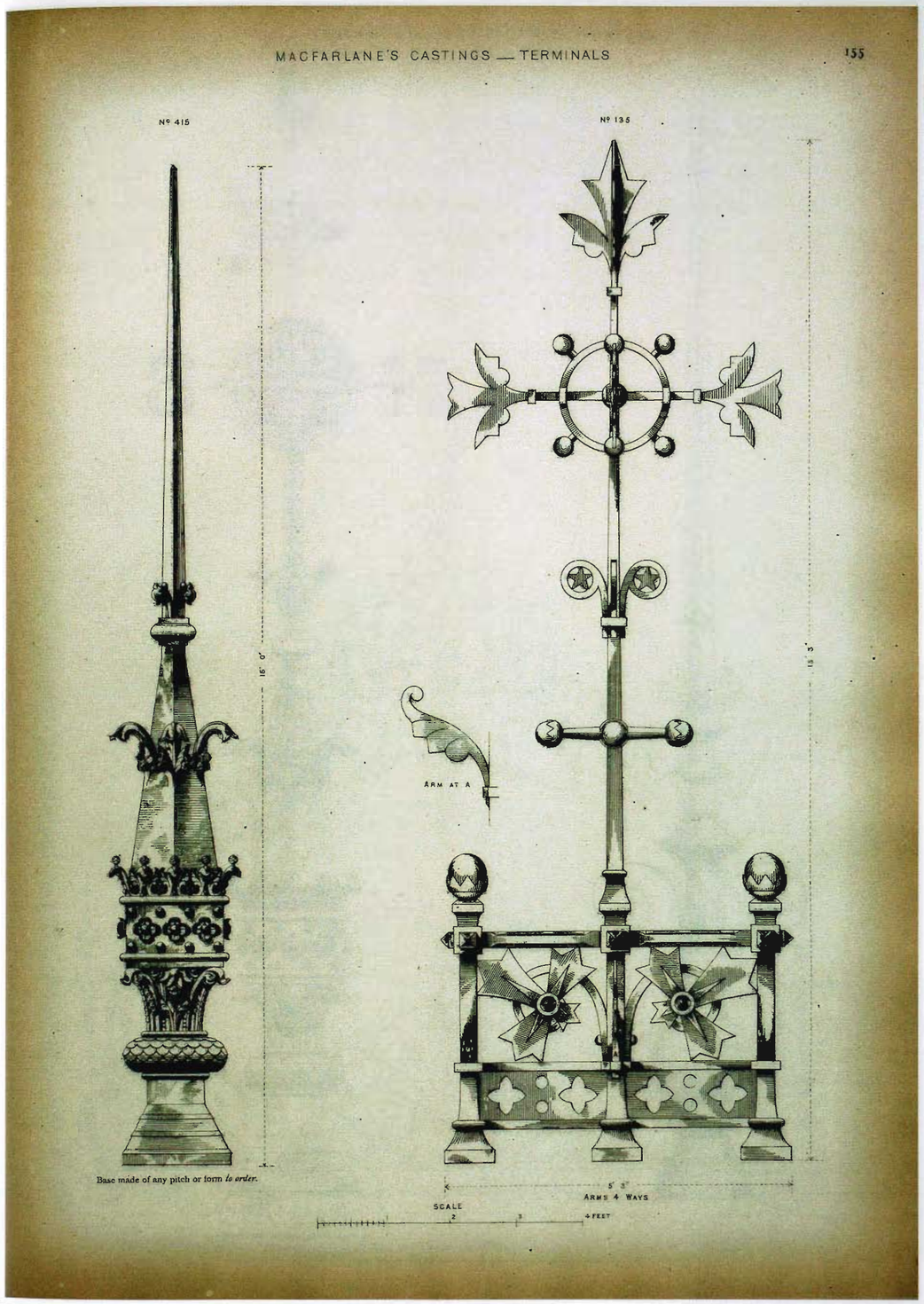

151
MACFARLANE'S CASTINGS — TERMINALS
Nº 132
Nº 655
Nº 207
ARMS & WAYS
SCALE
2
3
4 FEET

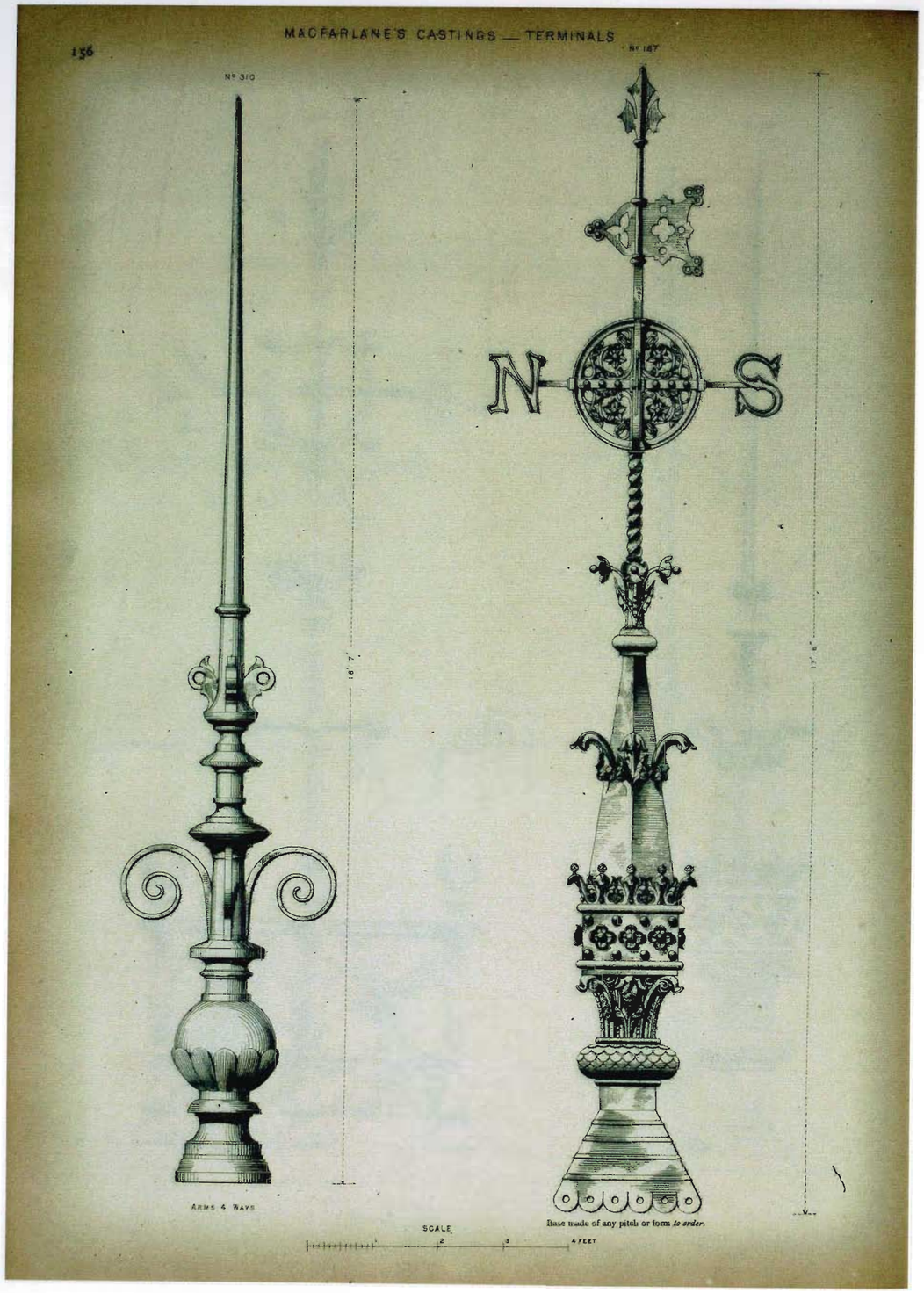

152
MACFARLANE'S CASTINGS — TERMINALS
Nº 309
Nº 30
Nº 310
Nº 127
N
S
ARMS 4 WAYS
ARMS 2 AND 4 WAYS
Bases made of any pitch or form to order.
SCALE
FEET

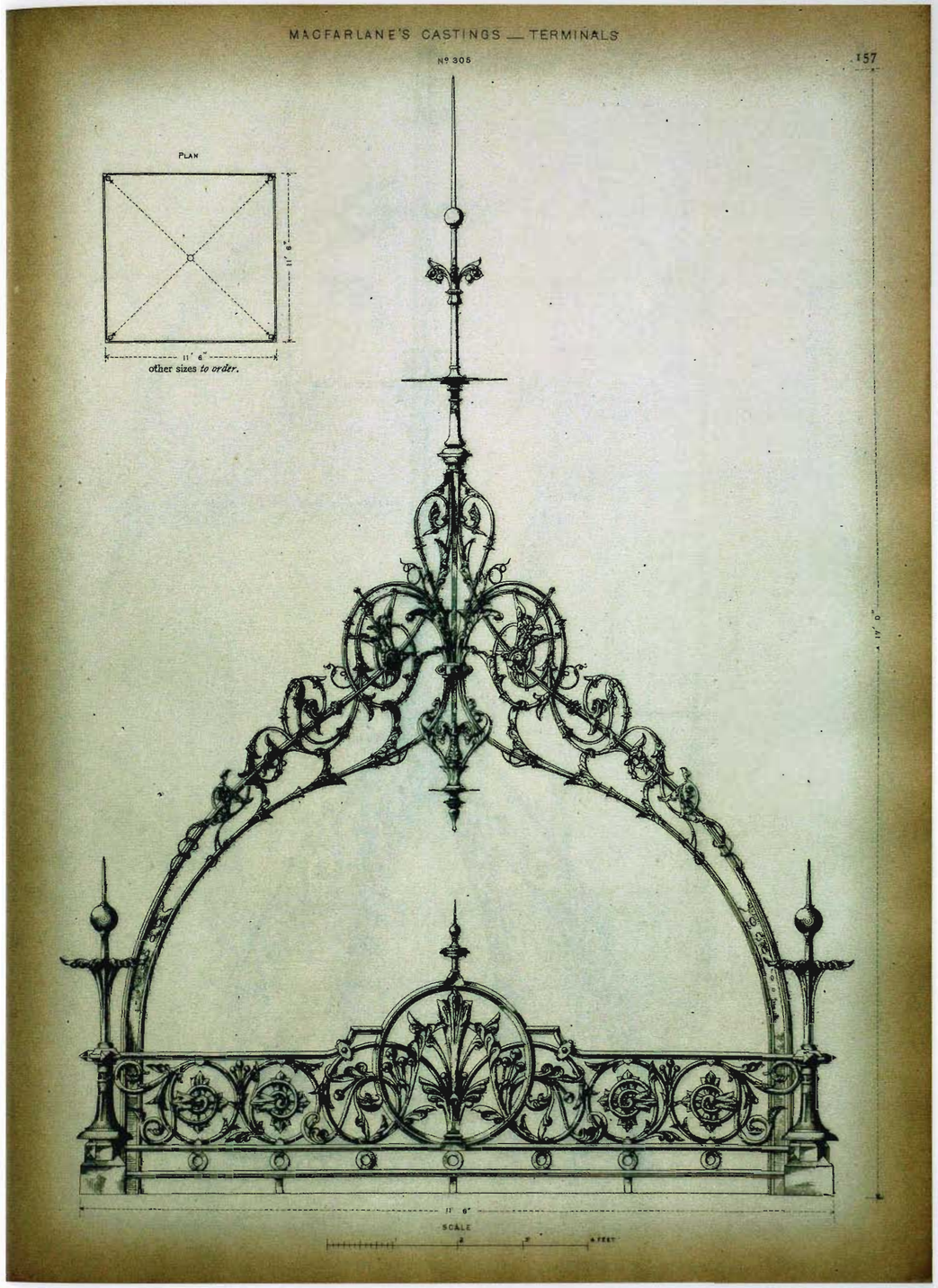

MACFARLANE'S CASTINGS — TERMINALS
153
Nº 436
PLAN
SCALE
FEET



WALTER MACFARLANE & CO, SARACEN FOUNDRY CATALOGUE – VOLUME 1



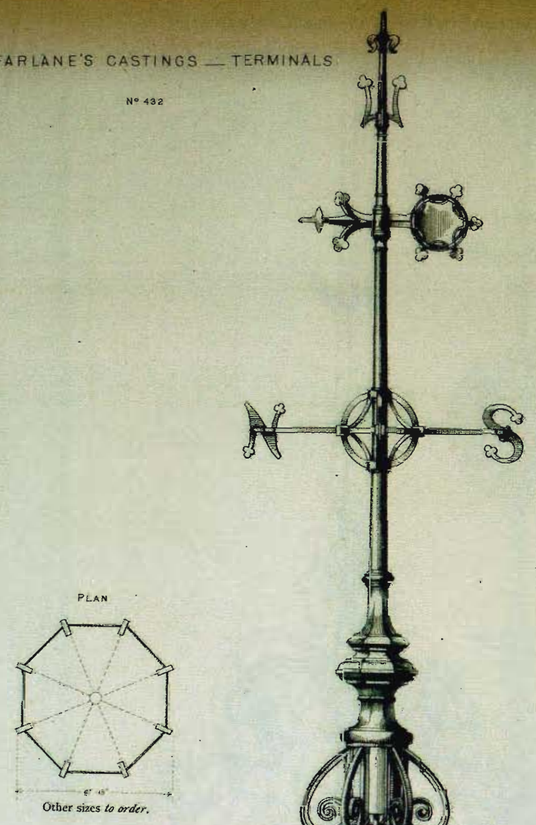

156
MACFARLANE'S CASTINGS — TERMINALS
Nº 310
Nº 187
N
S
ARMS 4 WAYS
SCALE
4 FEET
Base made of any pitch or form *to order*.

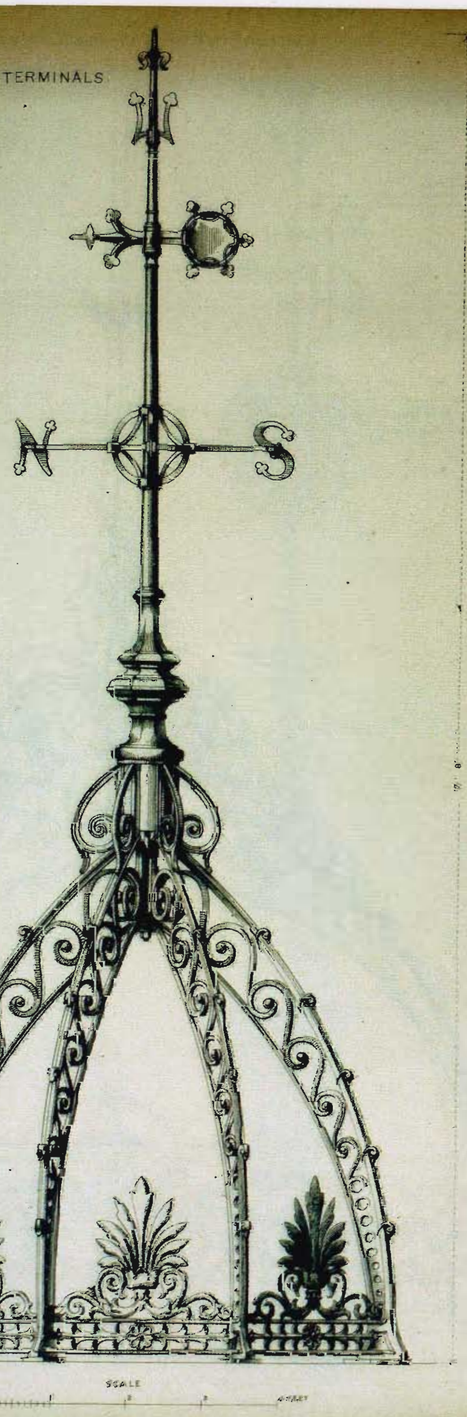

MACFARLANE'S CASTINGS — TERMINALS
157
Nº 305
PLAN
11' 6"
other sizes *to order*.
SCALE
4 FEET

158

MACFARLANE'S CASTINGS — TERMINALS

Nº 432

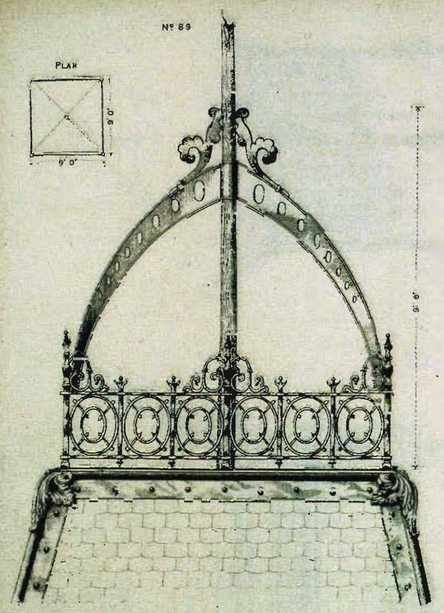




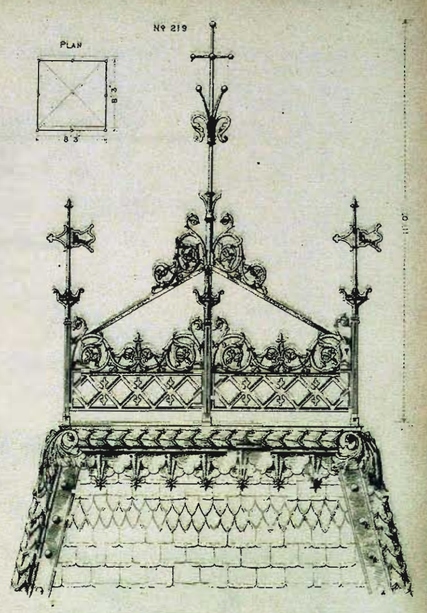
MACFARLANE'S CASTINGS — TERMINALS

159

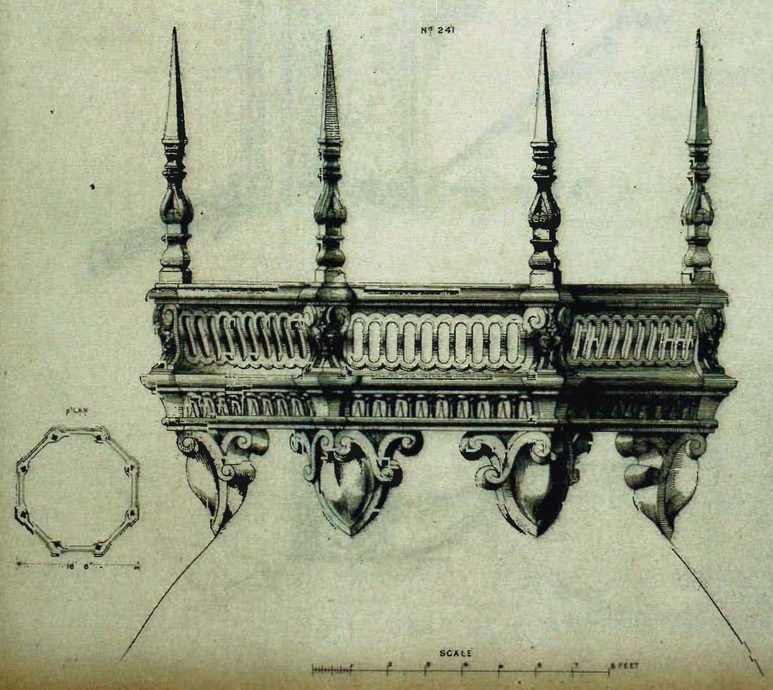
Nº 89

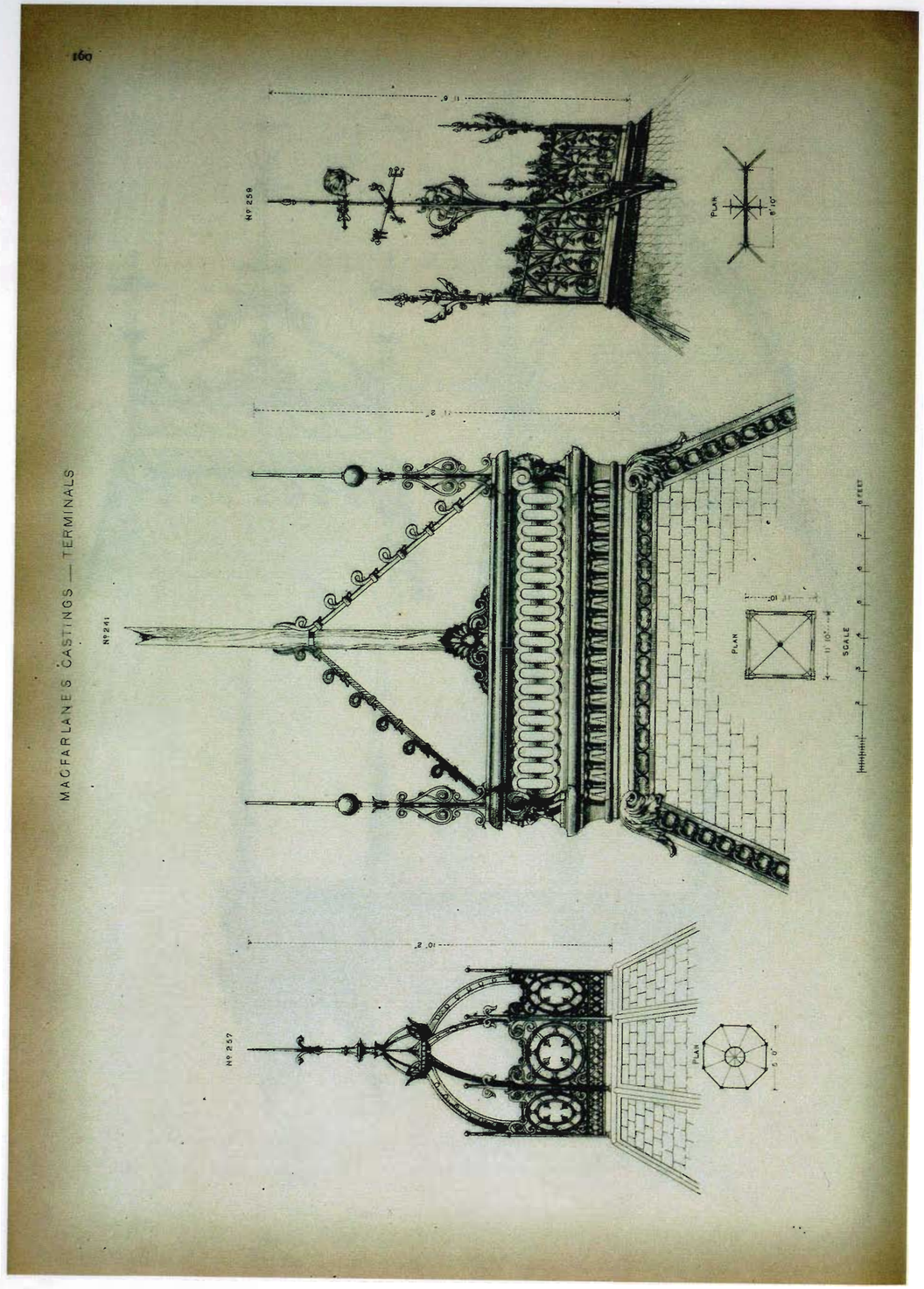


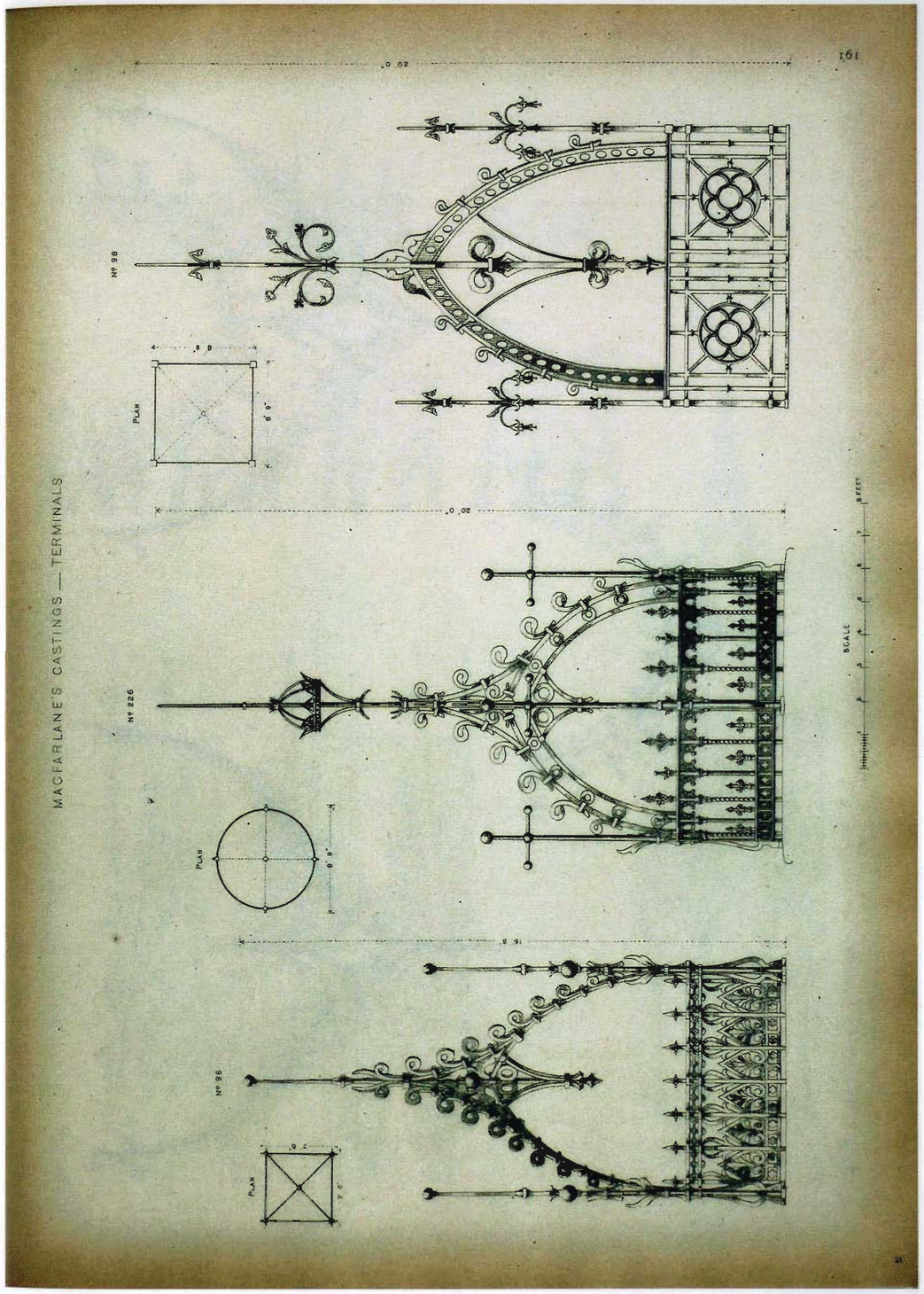
Nº 219

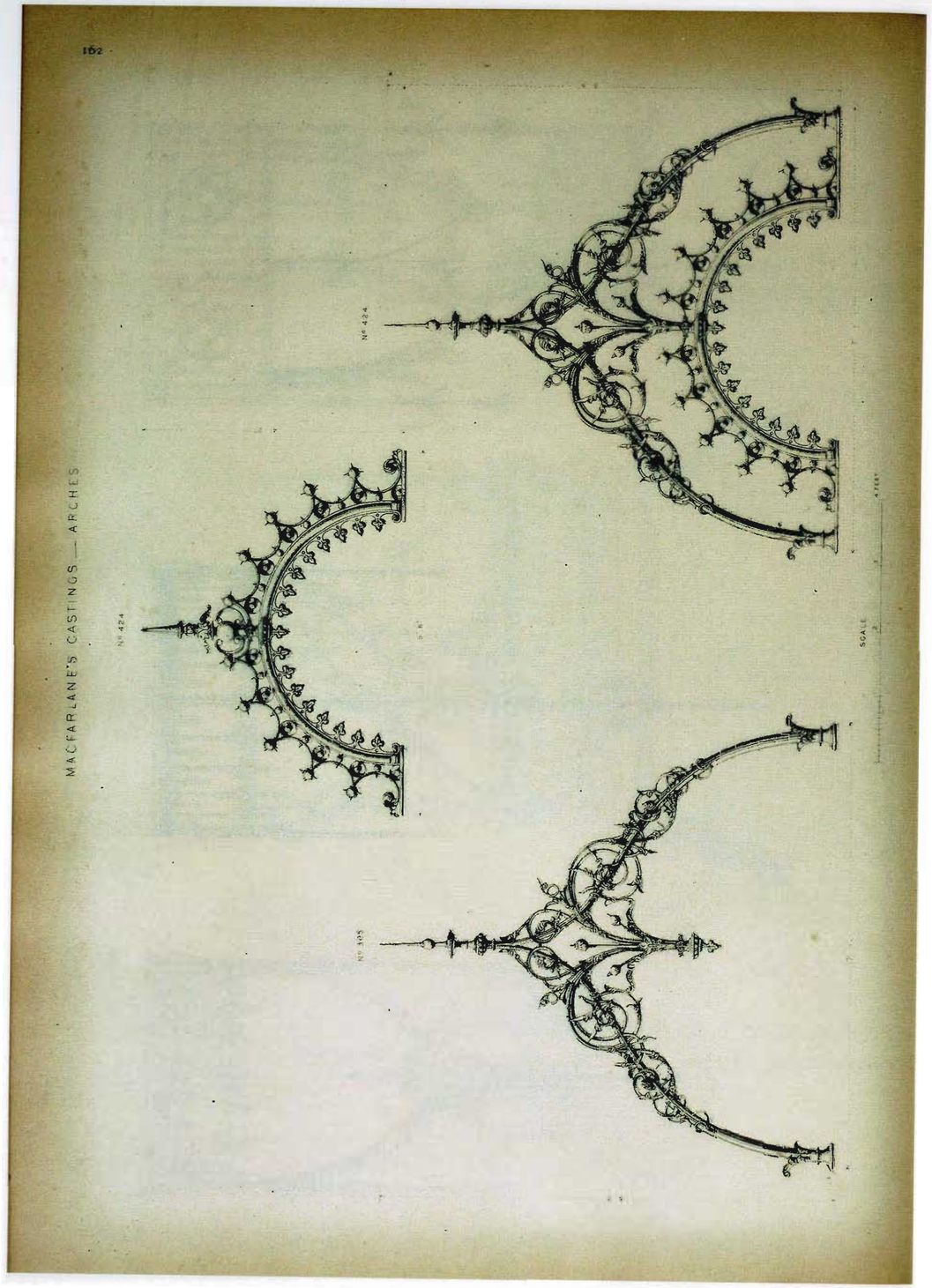


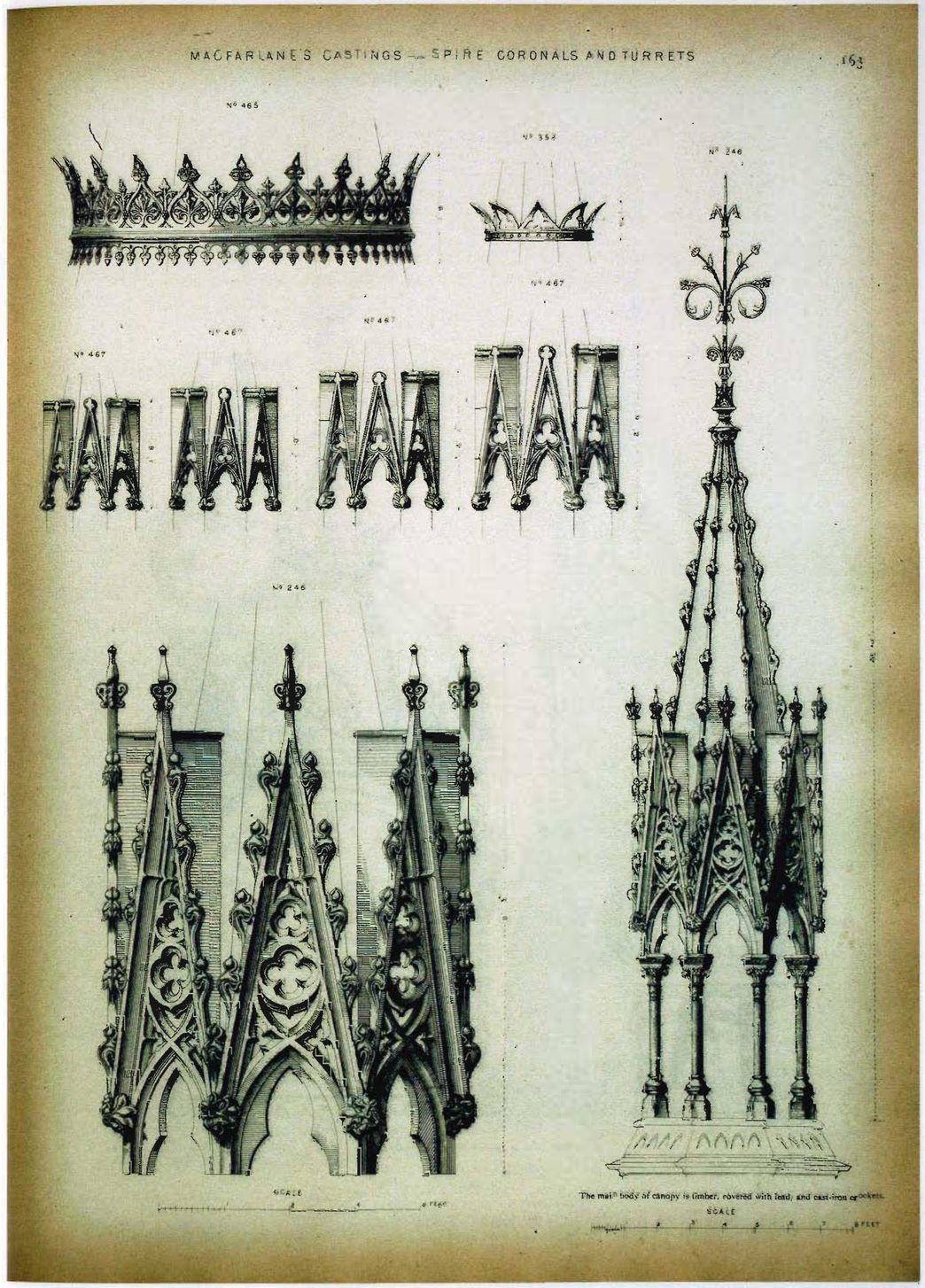
Nº 241



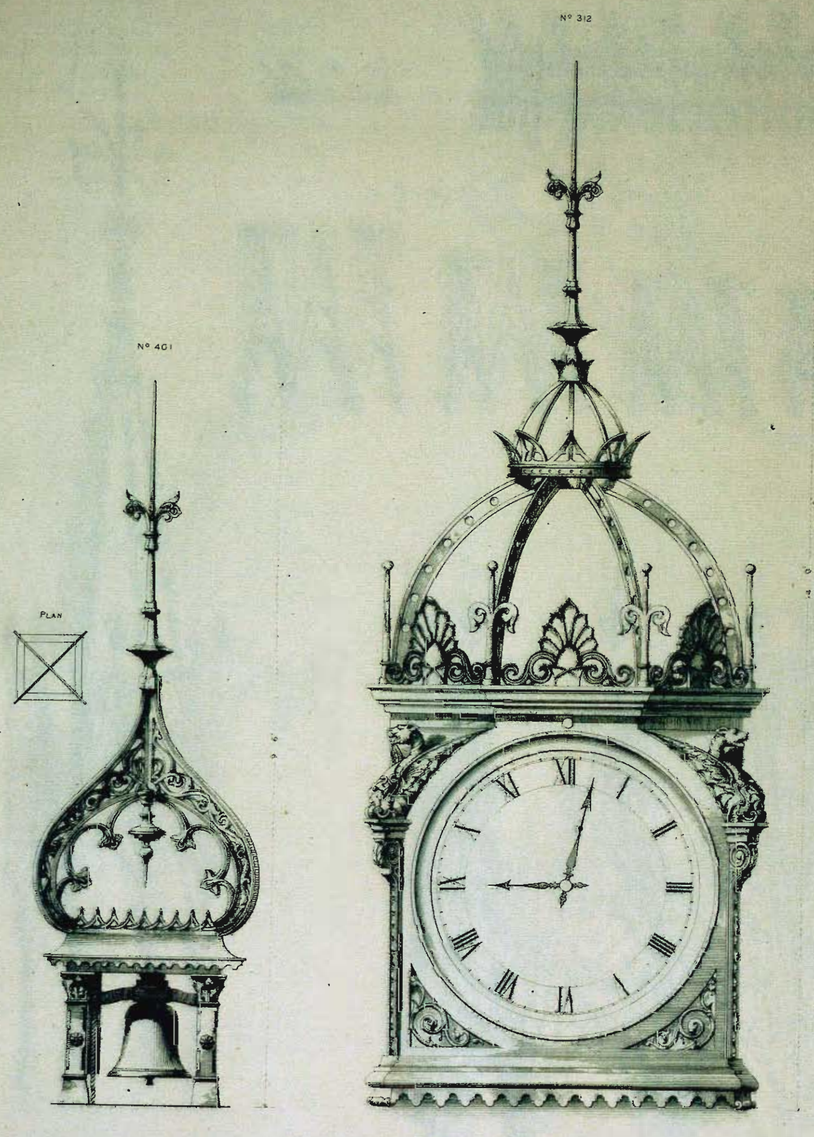

160
MACFARLANE'S CASTINGS — TERMINALS
Nº 259
PLAN
Nº 241
PLAN
SCALE
Nº 257
PLAN


161
MACFARLANE'S CASTINGS — TERMINALS
Nº 98
PLAN
Nº 226
PLAN
SCALE
Nº 96
PLAN


162
MACFARLANE'S CASTINGS — ARCHES
Nº 424
Nº 424
Nº 424
Nº 505
SCALE
2
FEET

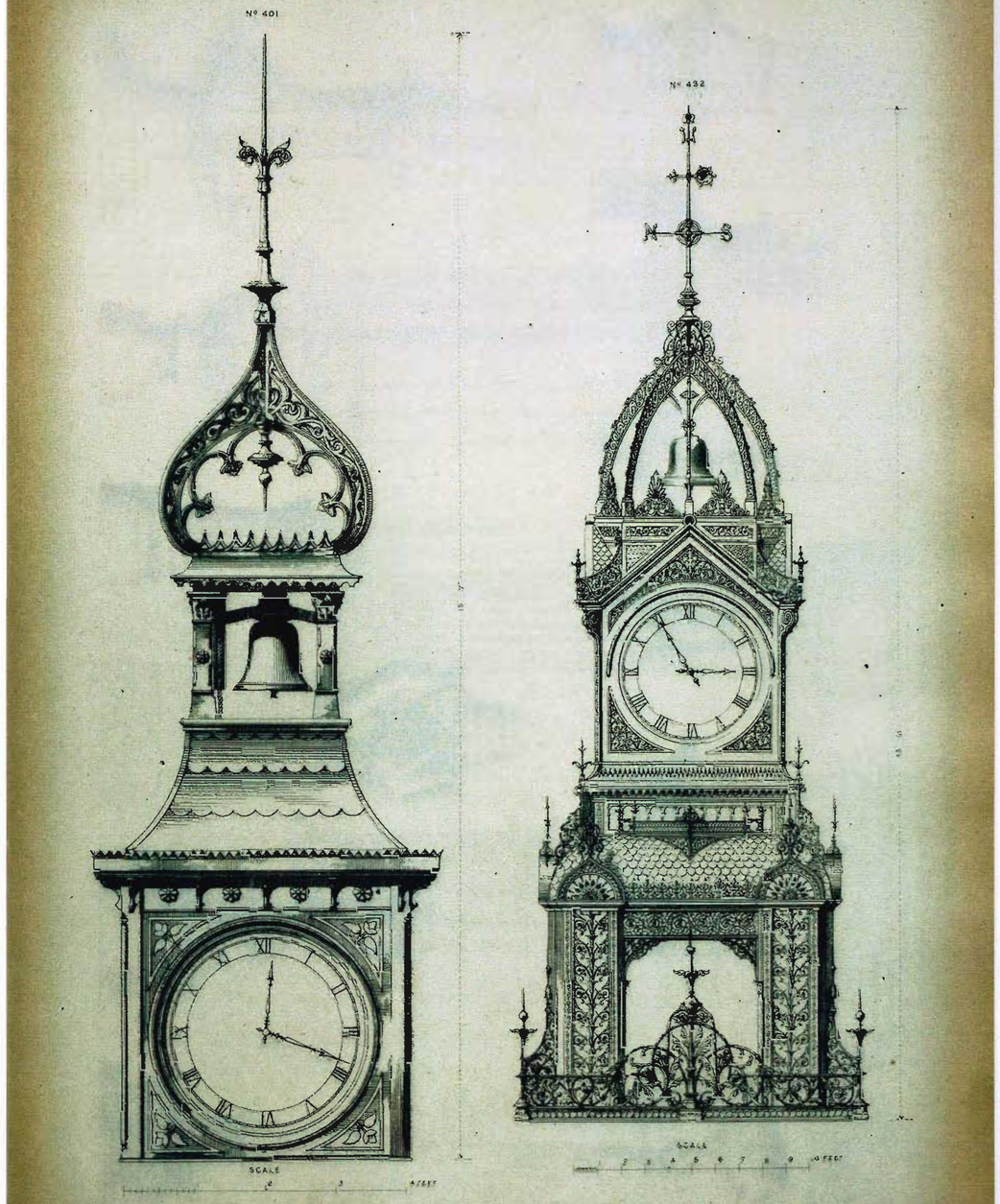

MACFARLANE'S CASTINGS — SPIRE CORONALS AND TURRETS
163
Nº 465
Nº 352
Nº 246
Nº 467
Nº 467
Nº 467
Nº 467
Nº 246
SCALE
2 FEET
The main body of canopy is timber, covered with lead, and cast-iron crockets.
SCALE
1 2 3 4 5 6 7 8 FEET

MACFARLANE'S CASTINGS — CLOCK TOWERS AND BELFRIES

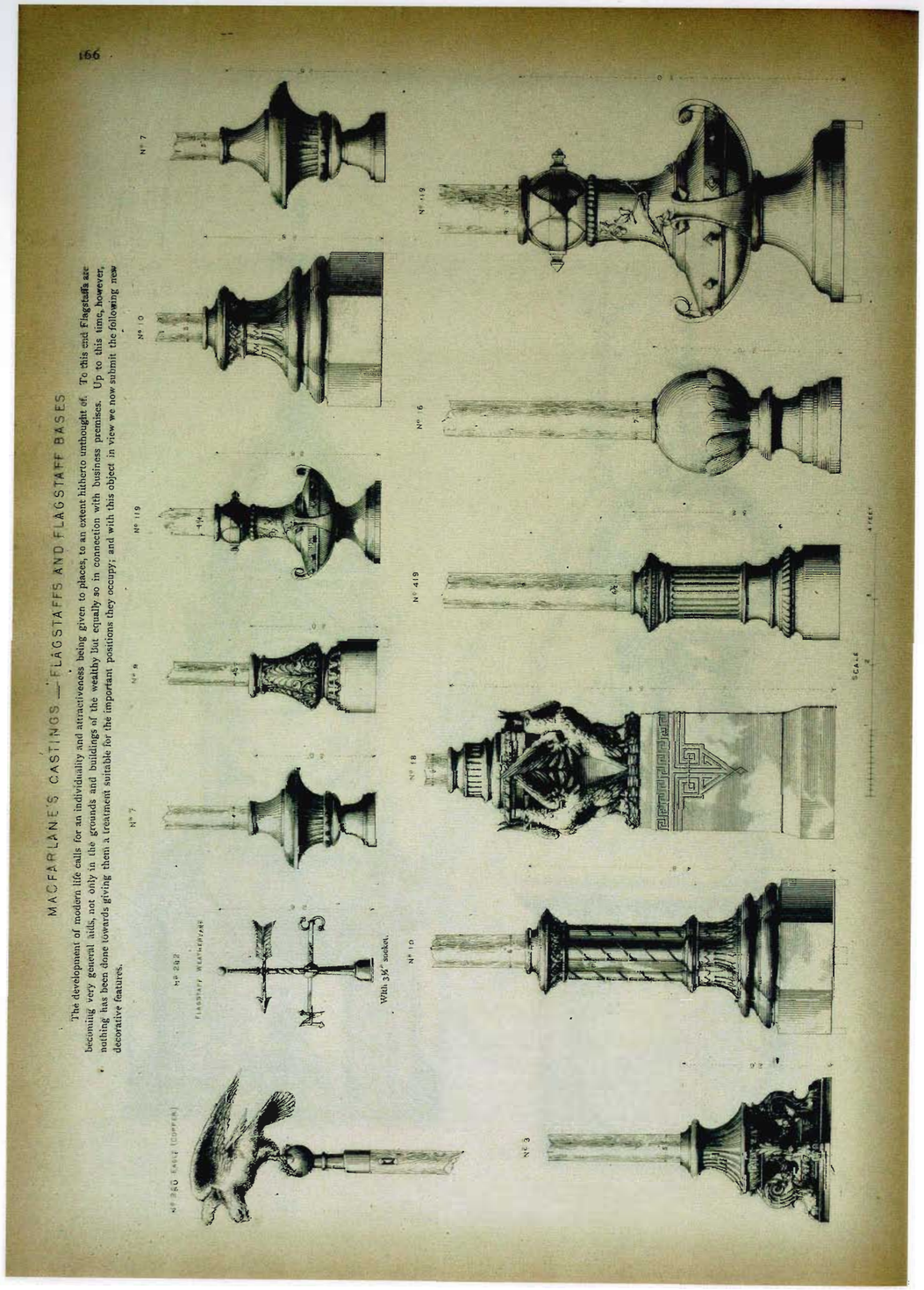


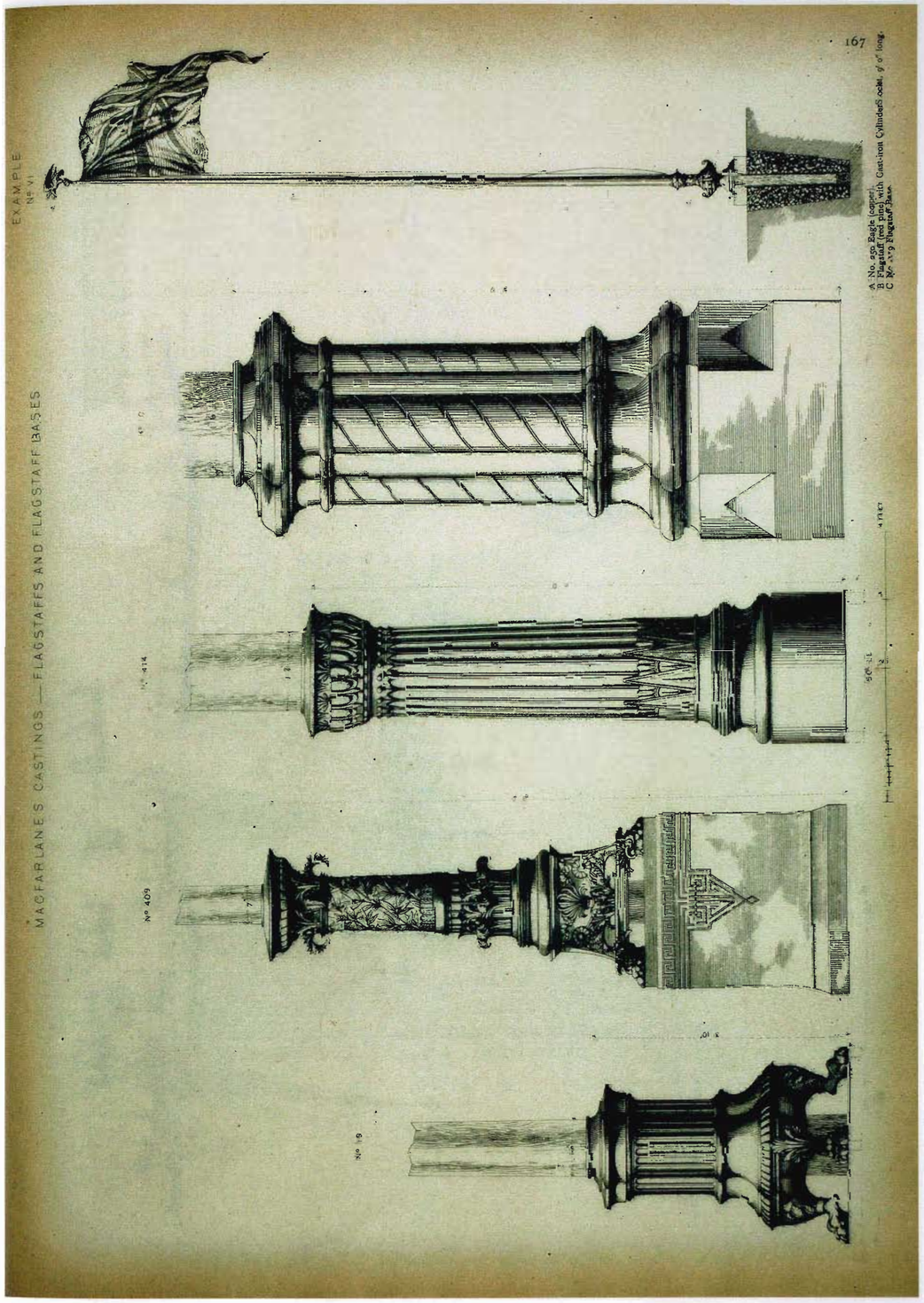
Clock, Dials and Bell with Gearing *charged extra.*

MACFARLANE'S CASTINGS — CLOCK TOWERS AND BELFRIES



Clock, Dials and Bell with Gearing *charged extra.*


MACFARLANE'S CASTINGS — FLAGSTAFFS AND FLAGSTAFF BASES
The development of modern life calls for an individuality and attractiveness being given to places, to an extent hitherto unthought of. To this end Flagstaffs are becoming very general aids, not only in the grounds and buildings of the wealthy But equally so in connection with business premises. Up to this time, however, nothing has been done towards giving them a treatment suitable for the important positions they occupy; and with this object in view we now submit the following new decorative features.
No 7
No 10
No 119
No 6
No 419
No 18
No 3
No 110
No 252 FLAGSTAFF WEATHERVANE
No 250 EAGLE (COPPER)
With 3½" socket.
SCALE

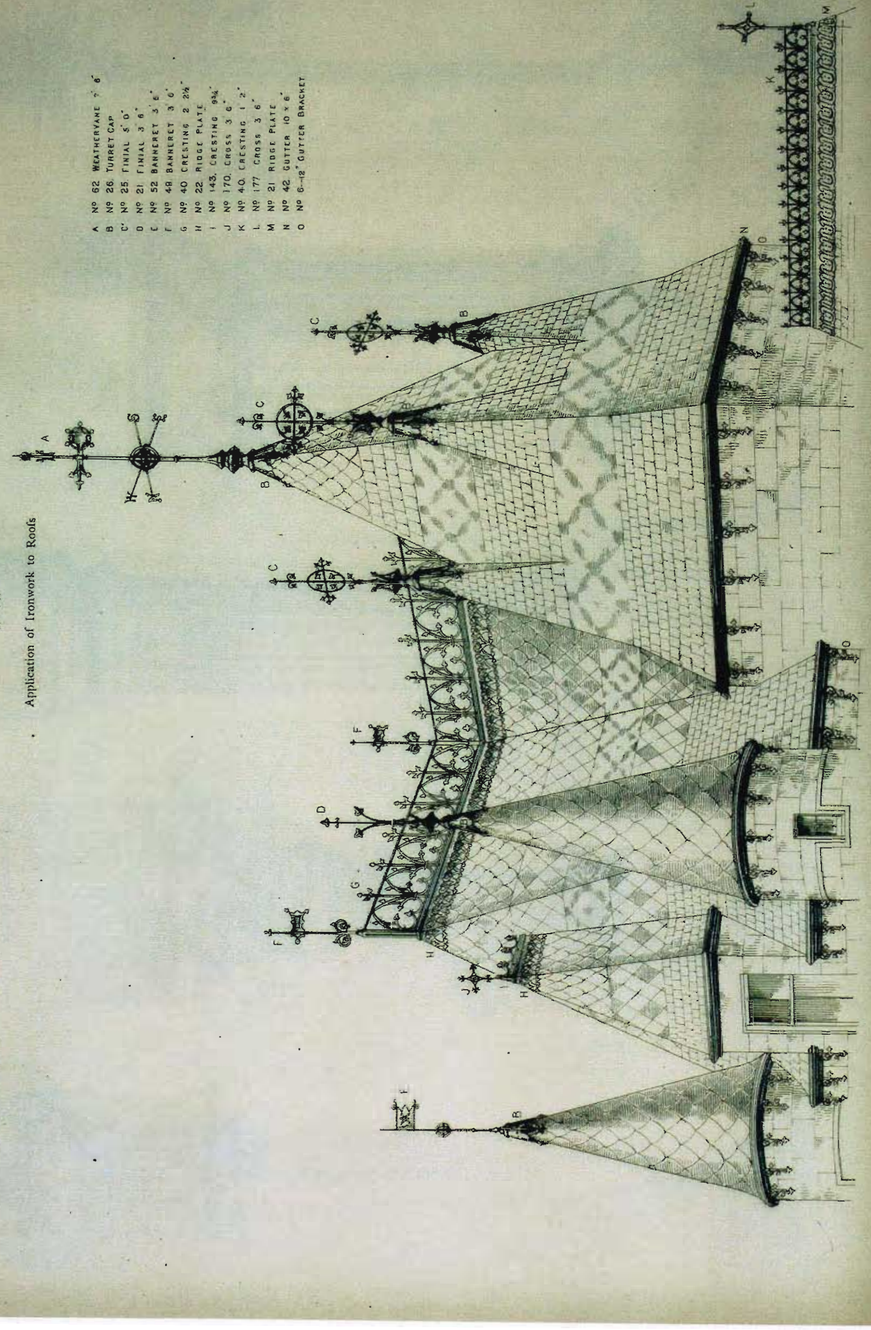

MACFARLANES CASTINGS — FLAGSTAFFS AND FLAGSTAFF BASES
EXAMPLE No VI
A No 250 Eagle (copper)
B Flagstaff (red pine) with Cast-iron Cylinders octag. 9'-0" long.
C No 119 Flagstaff Base.
No 409
No 119

MACFARLANE'S CASTINGS — EXAMPLES

Nº VII

Application of Ironwork to Roofs

A Nº 62 WEATHERVANE 7' 6"
B Nº 26 TURRET CAP
C Nº 25 FINIAL 5' 0"
D Nº 21 FINIAL 3' 6"
E Nº 52 BANNERET 3' 6"
F Nº 46 BANNERET 3' 6"
G Nº 40 CRESTING 2' 2½"
H Nº 22 RIDGE PLATE
I Nº 143 CRESTING 9¾"
J Nº 170 CROSS 3' 6"
K Nº 40 CRESTING 1' 2"
L Nº 177 CROSS 3' 6"
M Nº 21 RIDGE PLATE
N Nº 42 GUTTER 10"x 6"
O Nº 6–12 GUTTER BRACKET



MACFARLANE'S CASTINGS — EXAMPLES

Nº VIII

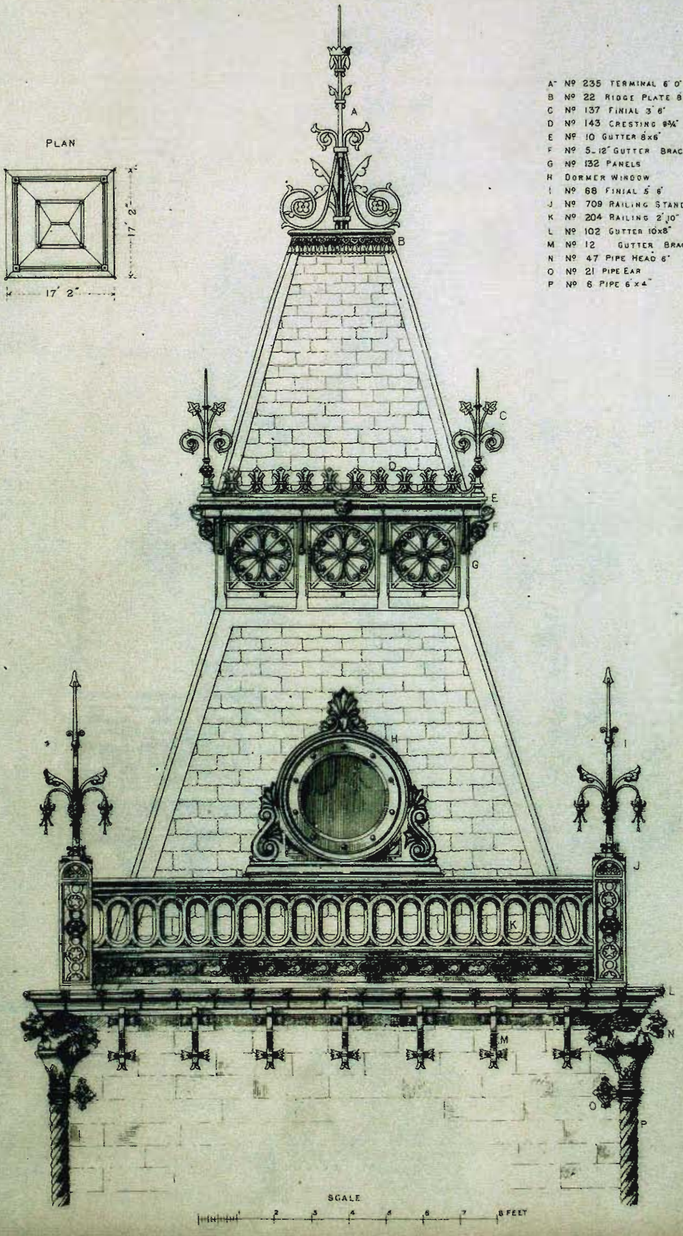
Application of Ironwork to Roofs.

PLAN

17' 2"

17' 2"

A Nº 235 TERMINAL 6' 0"
B Nº 22 RIDGE PLATE 6"x 6"
C Nº 137 FINIAL 3' 6"
D Nº 143 CRESTING 9¾"
E Nº 10 GUTTER 6"x 6"
F Nº 5–12" GUTTER BRACKET
G Nº 132 PANELS
H DORMER WINDOW
I Nº 68 FINIAL 5' 6"
J Nº 709 RAILING STANDARD 3 5/8"x 10¾"
K Nº 204 RAILING 2' 10"
L Nº 102 GUTTER 10"x 8"
M Nº 12 GUTTER BRACKET
N Nº 47 PIPE HEAD 6"
O Nº 21 PIPE EAR
P Nº 6 PIPE 6"x 4"



MACFARLANE'S CASTINGS — EXAMPLES

Nº IX

Application of Ironwork to Roofs.

PLAN

A Nº 201. CRESTING 3' 0"
B Nº 34. FINIAL 2' 9"
C Nº 48. GUTTER 11" x 6"
D Nº 89. BRACKET
E DORMER WINDOW
F Nº 89. CRESTING 1' 3½"
G Nº 31. FINIAL 2' 0"
H Nº 48. GUTTER 7" x 5"
I Nº 75. BRACKET
J Nº 83. FINIAL 1' 1½"
K Nº 207. WEATHERVANE 9' 9"
L Nº 26. TURRET CAP

SCALE

MACFARLANE'S CASTINGS — EXAMPLES

Nº X

Application of Ironwork to Eaves, Roofs, and Towers.

A FINIALS WITH Nº 250 EAGLE TERMINAL
B Nº 222 TERMINAL 6' 5"
C Nº 158 BARGEBOARD 4' 6"
D Nº 338 RAILING 3' 1"
E CORNER SHIELD
F Nº 31 KID PLATE
G Nº 33 CURB PLATE
H Nº 79 TERMINAL 8' 11"
I DORMER WINDOW
J Nº 15 TERMINAL 4' 4"
K Nº 204 RAILING 4' 6"
L Nº 17 PIPE 5" x 3/4"

SECTION V.—RAILING.

FOR EVERY KIND OF FENCING, PANELLING, AND BUILDING DECORATION.

The purposes to which the Castings in this section may be applied are so many as to preclude enumeration, while the variety of designs and range of sizes are such, that the customer knowing the position the castings are to occupy, and the surrounding objects they are to harmonize with, can, by determining approximately the height required, select patterns suitable for his purpose, and by reference to the other sections of our Catalogue, endless combinations will suggest themselves, besides those illustrated. We are glad at all times to submit to our customers sketches of alternative combinations on receiving a description of the position, with measurements, and an indication of the taste of the customer.

Please insert in Specification **"To be Macfarlane's Castings, from Saracen Foundry, Glasgow,"** to prevent an inferior article being supplied.

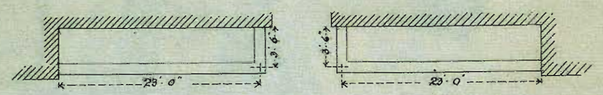
Railing, Cresting, Panelling, Grilles, Trellises, Palisades, Frieze Rails, Gratings, Ventilators, and Window Guards; Parapet, Gallery, Balcony, Screen, Altar and Tomb Railing, &c.,	pages	172—285	
Bar Rails,	"	286	
Altar Rail Standards,	"	286	
Handrails,	"	287—288	
Wall Coping,	"	288	
Railing Sockets,	"	288	
Gates,	see Section VI.,	pages	293—333
Railing and Gate Standards,	" VI.,	"	334—339
Panels,	" VII.,	"	341—361
Ventilators,	" VII.,	"	362
Floor Gratings,	" VII.,	"	363—367
Balusters,	" VIII.,	"	373—383
Balconies,	" IX.,	"	387—396
Examples,		"	289—292
Also other examples at end of Catalogue.			

The Illustrations are arranged in the order of their heights.

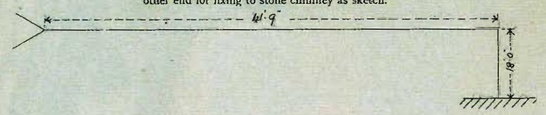
DIRECTIONS FOR ORDERING.

State the Nos. and sizes, and if necessary send a rough sketch of what the Railing is to be fixed to, giving exact measurements, and stating the nature of the fixings required, whether for stone, brick, wood, or iron. The following examples show the simplest method of ordering.

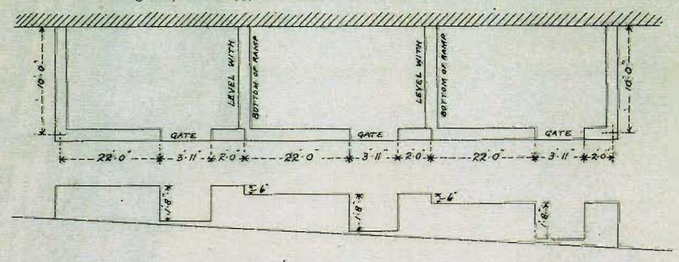
No. 802 Railing 2′ 10″, with No. 5 Handrail 3½″ × 1¾″, and No. 690 Railing Standards 4′ 0″, with fixings at bottom and ends for stone as sketch.



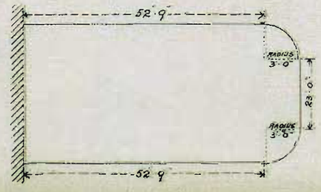
No. 2 Ridge Plate 8″ × 8″ × ⅛ths pitch with Angles, and fitted with No. 921 Cresting 1′ 8″, having No. 449 Terminal 5′ 0″ at corner and at one end, with batts at other end for fixing to stone chimney as sketch.



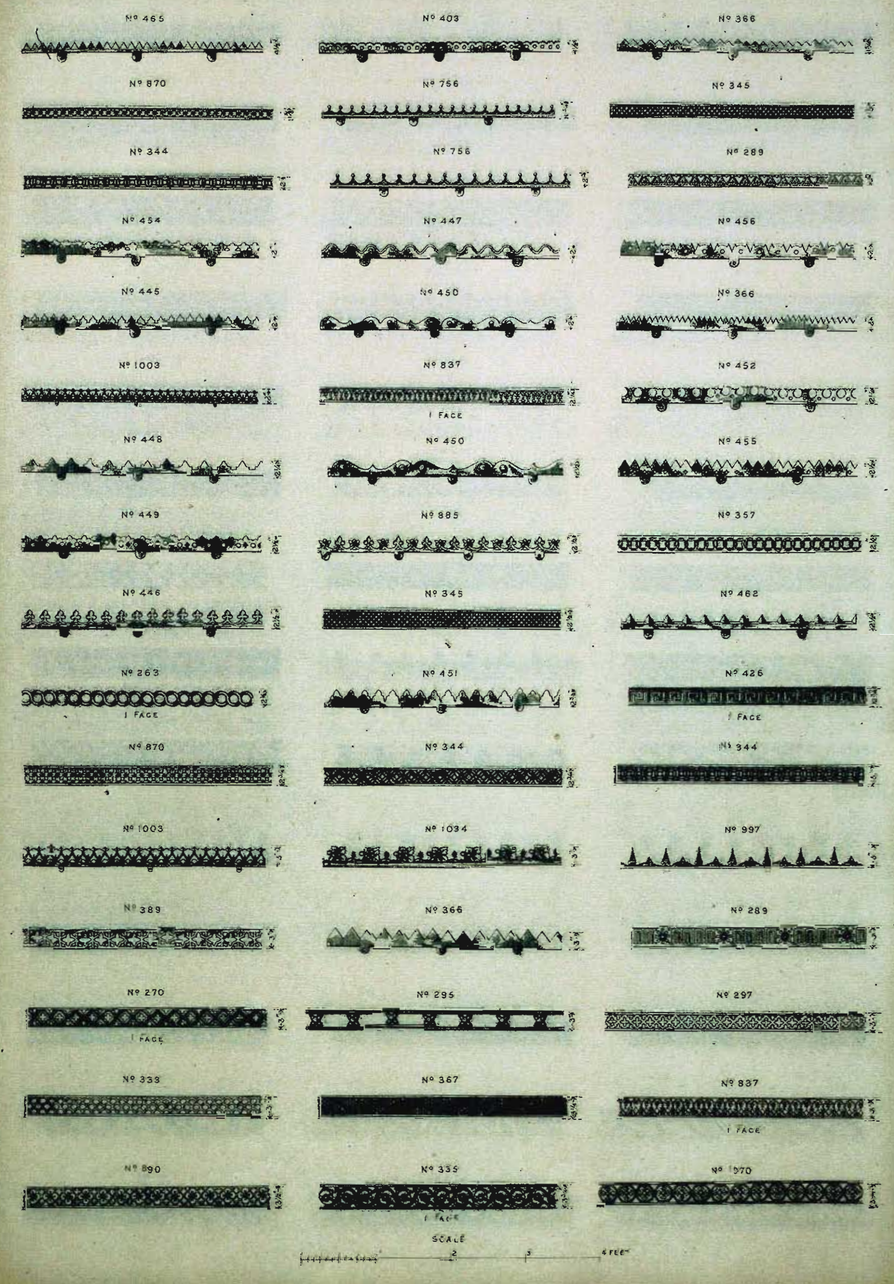
No. 920 Railing 2′ 4½″, with No. 12 Wall Cope 9″, and 4 No. 807 Railing Standards 3′ 6″ adapted to suit corners and ramps, 3 No. 920 Gates 3′ 6″ × 5′ 0″ having locks, and 6 No. 744 Gate Standards and Backstays, all fitted complete as sketch.

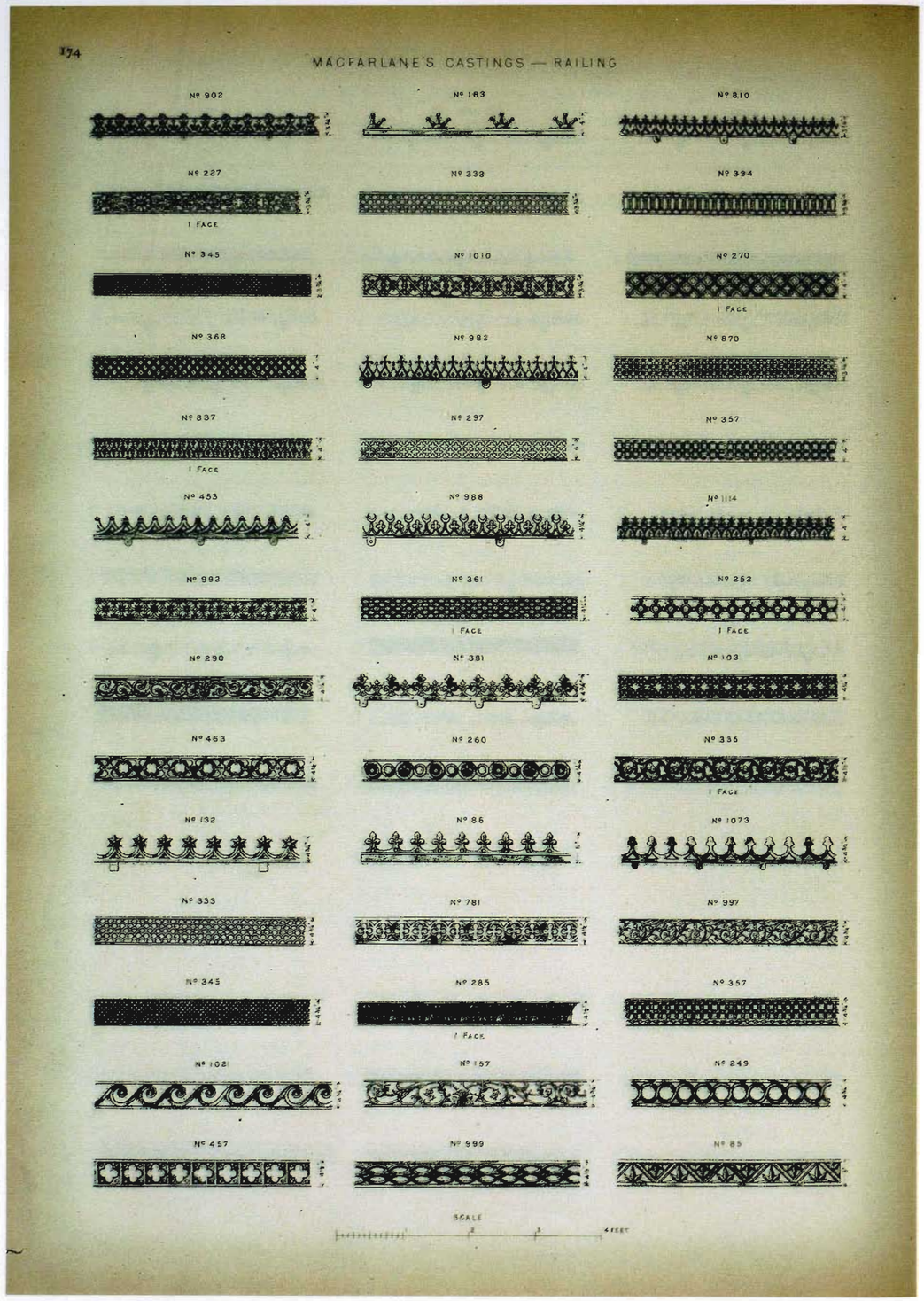


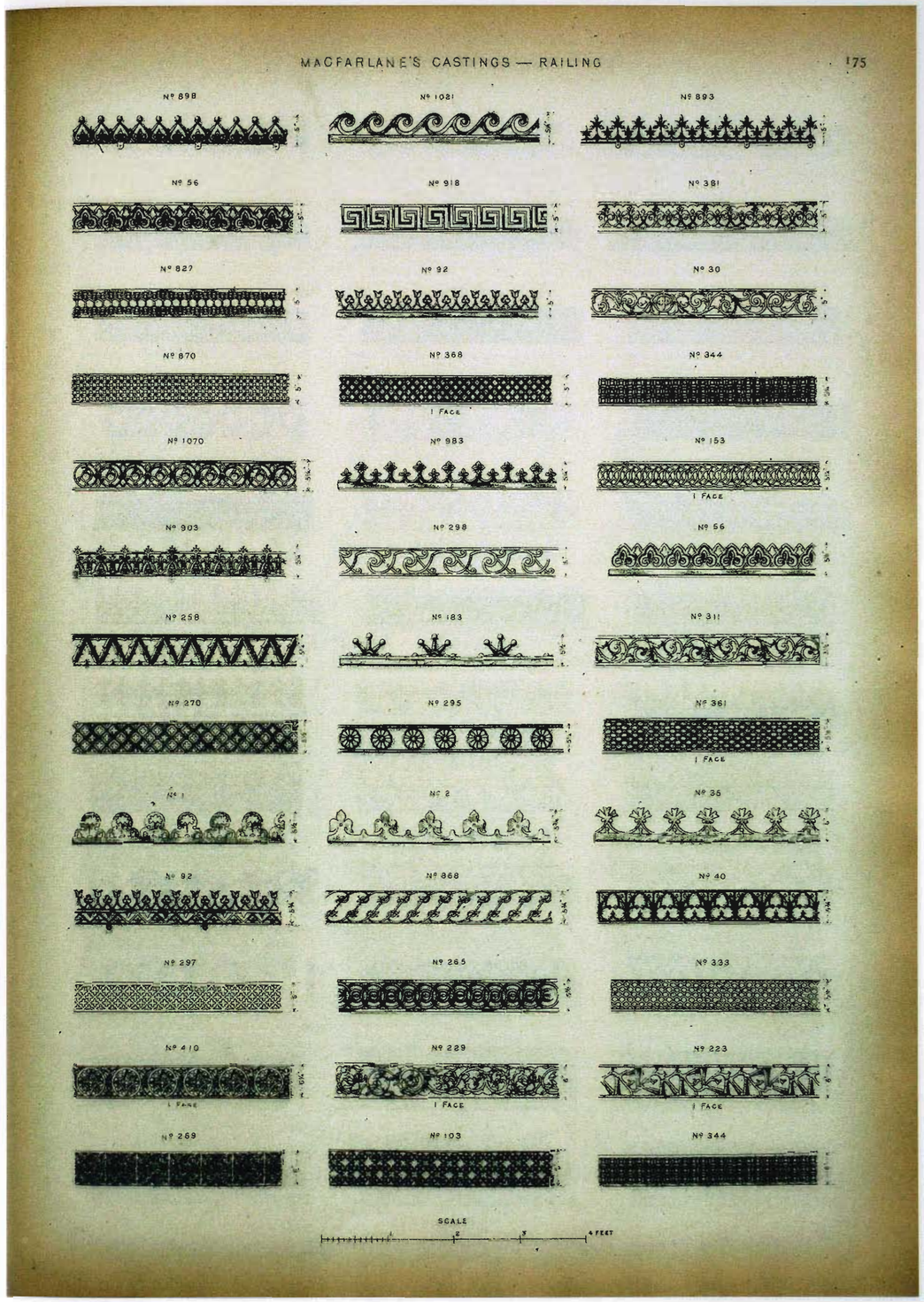
No. 139 Railing 2′ 10½″ for Gallery front, prepared at bottom for fixing to wood beam, and at top for mahogany cope as sketch.

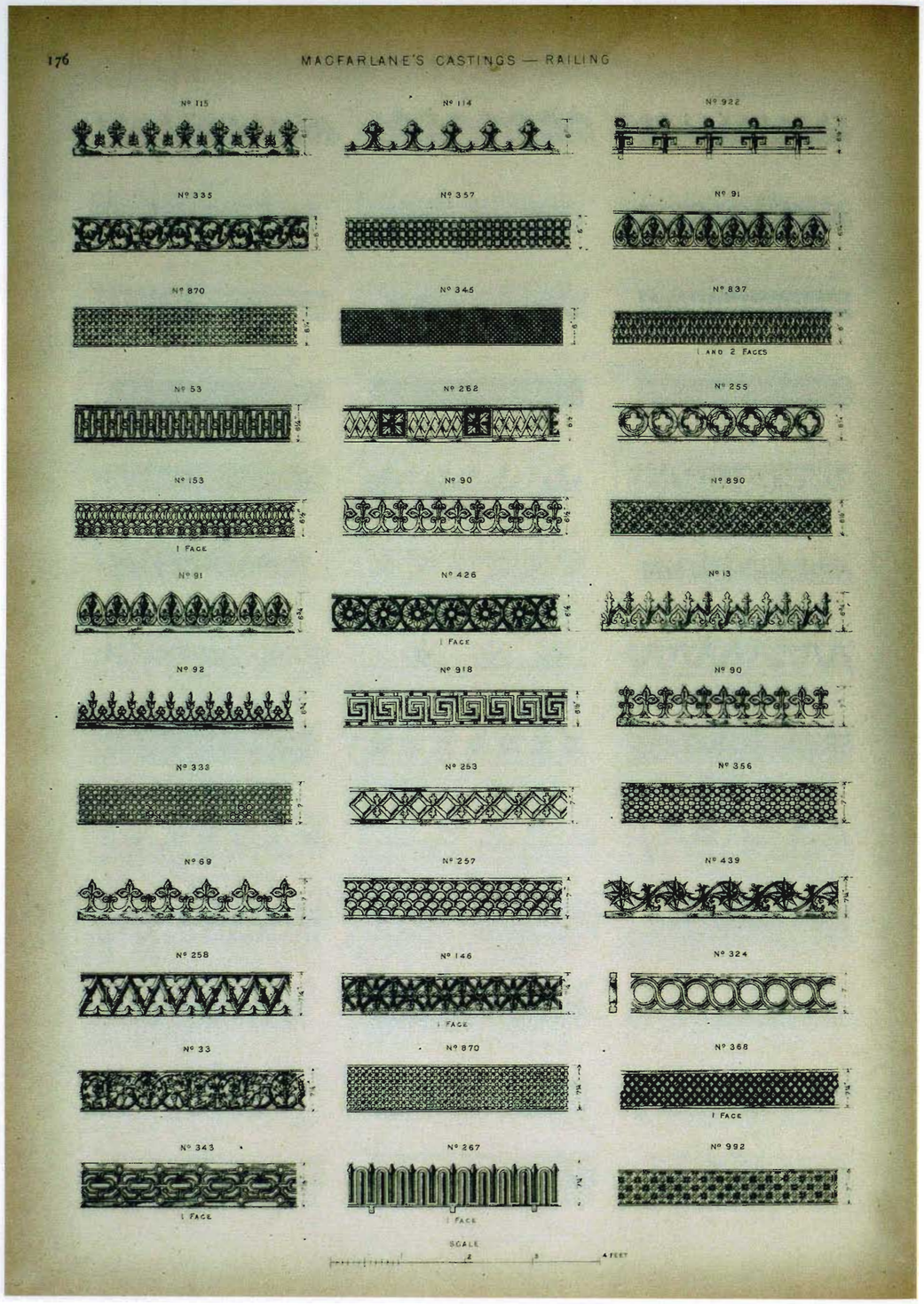


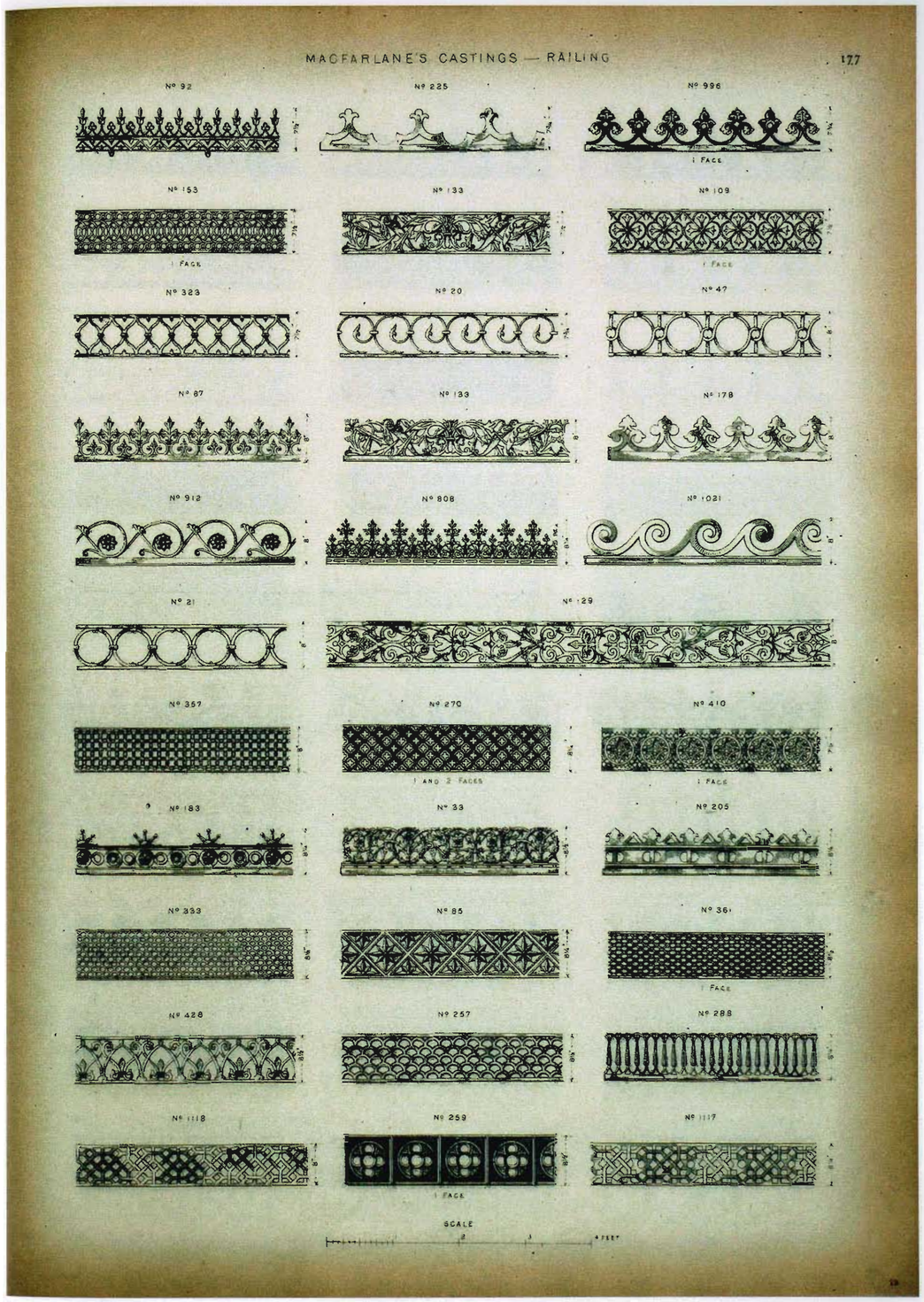
MACFARLANE'S CASTINGS — RAILING

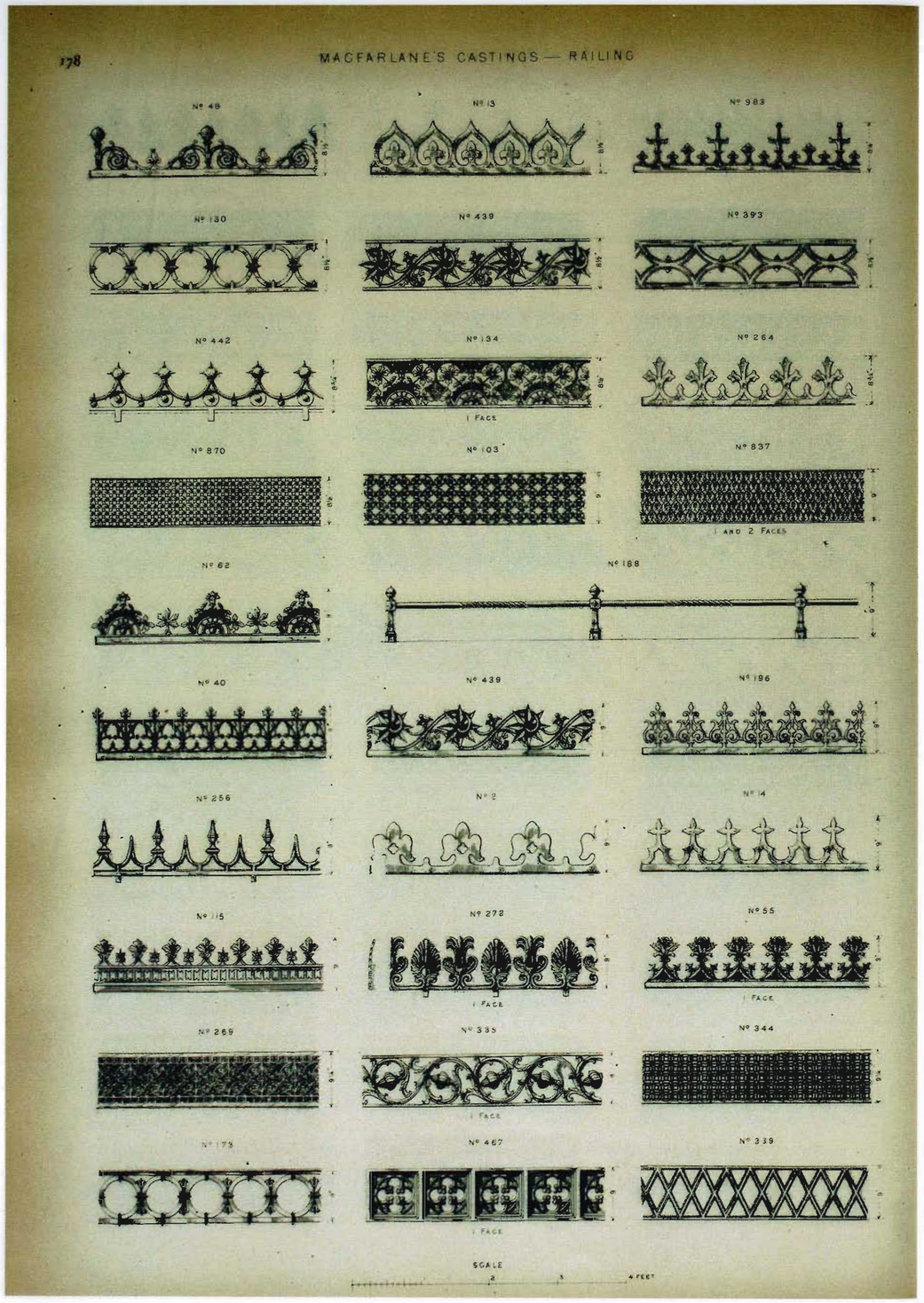


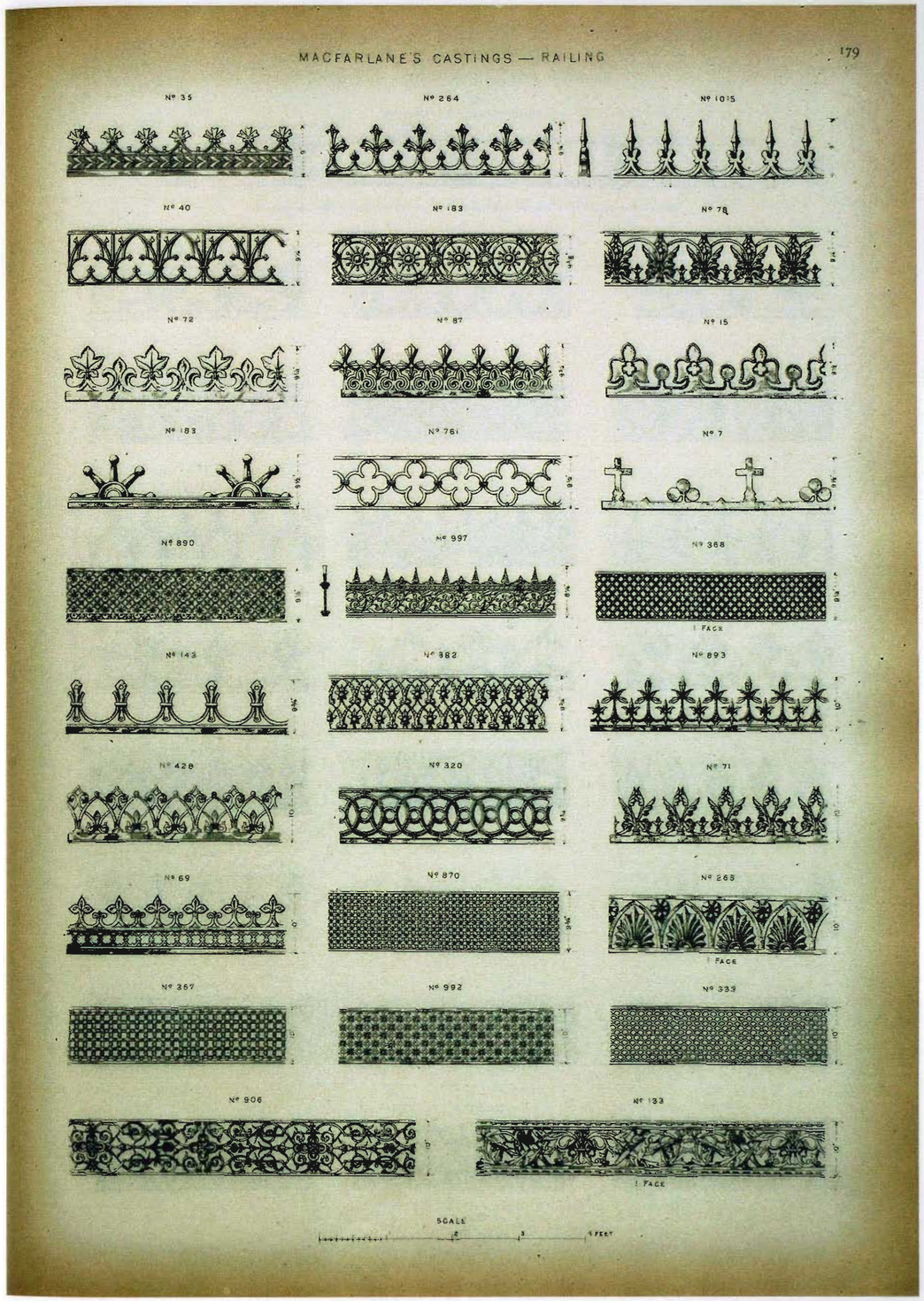

174
MACFARLANE'S CASTINGS — RAILING
Nº 902
Nº 163
Nº 810
Nº 227
1 FACE
Nº 338
Nº 334
Nº 345
Nº 1010
Nº 270
1 FACE
Nº 368
Nº 982
Nº 870
Nº 837
1 FACE
Nº 297
Nº 357
Nº 453
Nº 988
Nº 1114
Nº 992
Nº 361
1 FACE
Nº 252
1 FACE
Nº 290
Nº 381
Nº 103
Nº 463
Nº 260
Nº 335
1 FACE
Nº 132
Nº 86
Nº 1073
Nº 333
Nº 781
Nº 997
Nº 345
Nº 285
1 FACE
Nº 357
Nº 1021
Nº 157
Nº 249
Nº 457
Nº 999
Nº 85
SCALE
2
3
4 FEET


MACFARLANE'S CASTINGS — RAILING
175
Nº 898
Nº 1021
Nº 893
Nº 56
Nº 918
Nº 381
Nº 827
Nº 92
Nº 30
Nº 870
Nº 368
1 FACE
Nº 344
Nº 1070
Nº 983
Nº 153
1 FACE
Nº 903
Nº 298
Nº 56
Nº 258
Nº 183
Nº 311
Nº 270
Nº 295
Nº 361
1 FACE
Nº 1
Nº 2
Nº 35
Nº 92
Nº 868
Nº 40
Nº 297
Nº 265
Nº 333
Nº 410
1 FACE
Nº 229
1 FACE
Nº 223
1 FACE
Nº 269
Nº 103
Nº 344
SCALE
2
3
4 FEET


176
MACFARLANE'S CASTINGS — RAILING
Nº 115
Nº 114
Nº 922
Nº 335
Nº 357
Nº 91
Nº 870
Nº 345
Nº 837
1 AND 2 FACES
Nº 53
Nº 262
Nº 255
Nº 153
1 FACE
Nº 90
Nº 890
Nº 91
Nº 426
1 FACE
Nº 13
Nº 92
Nº 918
Nº 90
Nº 333
Nº 253
Nº 356
Nº 69
Nº 257
Nº 439
Nº 258
Nº 146
1 FACE
Nº 324
Nº 33
Nº 870
Nº 368
1 FACE
Nº 343
1 FACE
Nº 267
1 FACE
Nº 992
SCALE
2
3
4 FEET


MACFARLANE'S CASTINGS — RAILING
177
Nº 92
Nº 225
Nº 996
1 FACE
Nº 153
1 FACE
Nº 133
Nº 109
1 FACE
Nº 323
Nº 20
Nº 47
Nº 87
Nº 133
Nº 178
Nº 912
Nº 808
Nº 1021
Nº 21
Nº 129
Nº 357
Nº 270
1 AND 2 FACES
Nº 410
1 FACE
Nº 183
Nº 33
Nº 205
Nº 393
Nº 85
Nº 361
1 FACE
Nº 428
Nº 257
Nº 288
Nº 1118
Nº 259
1 FACE
Nº 1117
SCALE
2
3
4 FEET


178
MACFARLANE'S CASTINGS — RAILING
Nº 48
Nº 13
Nº 983
Nº 130
Nº 439
Nº 393
Nº 442
Nº 134
1 FACE
Nº 264
Nº 870
Nº 103
Nº 837
1 AND 2 FACES
Nº 62
Nº 188
Nº 40
Nº 439
Nº 196
Nº 256
Nº 2
Nº 14
Nº 115
Nº 272
1 FACE
Nº 55
1 FACE
Nº 269
Nº 335
1 FACE
Nº 344
Nº 173
Nº 467
1 FACE
Nº 339
SCALE
2
3
4 FEET

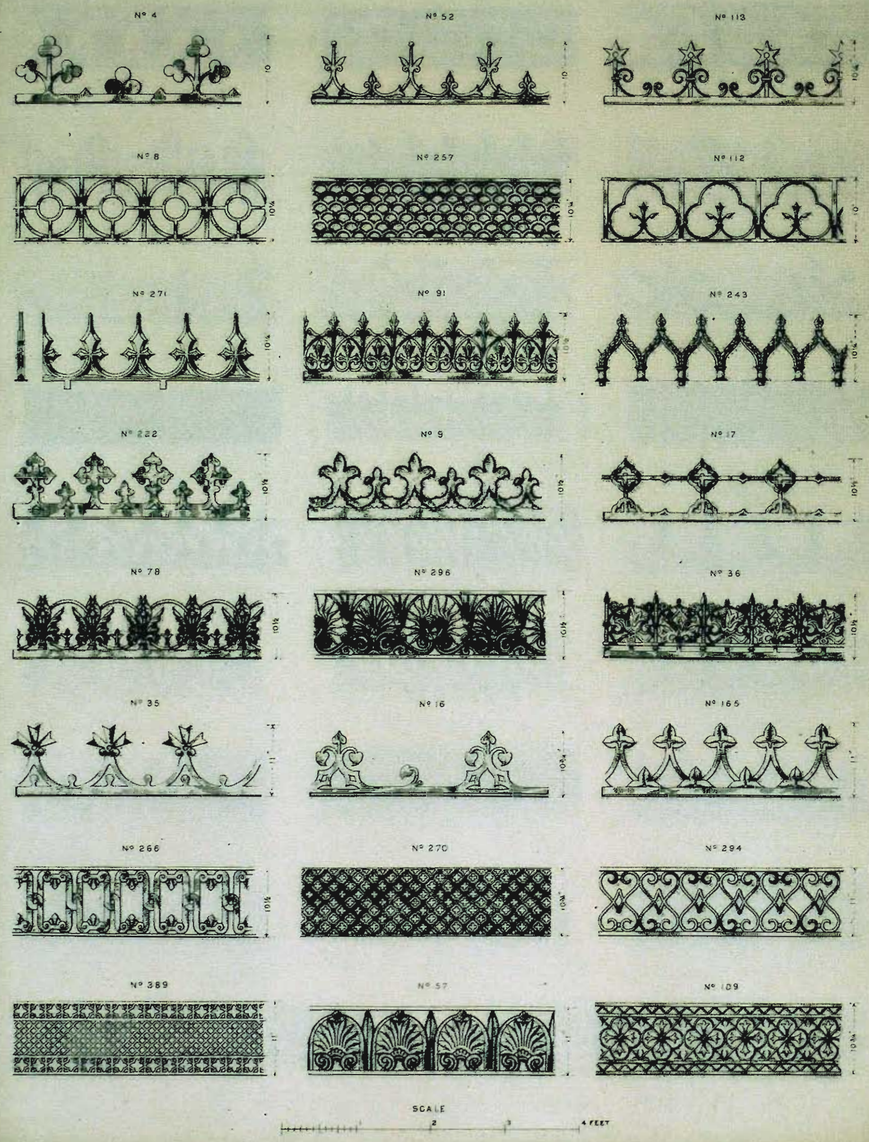

MACFARLANE'S CASTINGS — RAILING
179
Nº 35
Nº 264
Nº 1015
Nº 40
Nº 183
Nº 78
Nº 72
Nº 87
Nº 15
Nº 183
Nº 761
Nº 7
Nº 890
Nº 997
Nº 368
1 FACE
Nº 143
Nº 382
Nº 893
Nº 428
Nº 320
Nº 71
Nº 69
Nº 870
Nº 263
1 FACE
Nº 357
Nº 992
Nº 339
Nº 306
Nº 133
1 FACE
SCALE
2
3
4 FEET

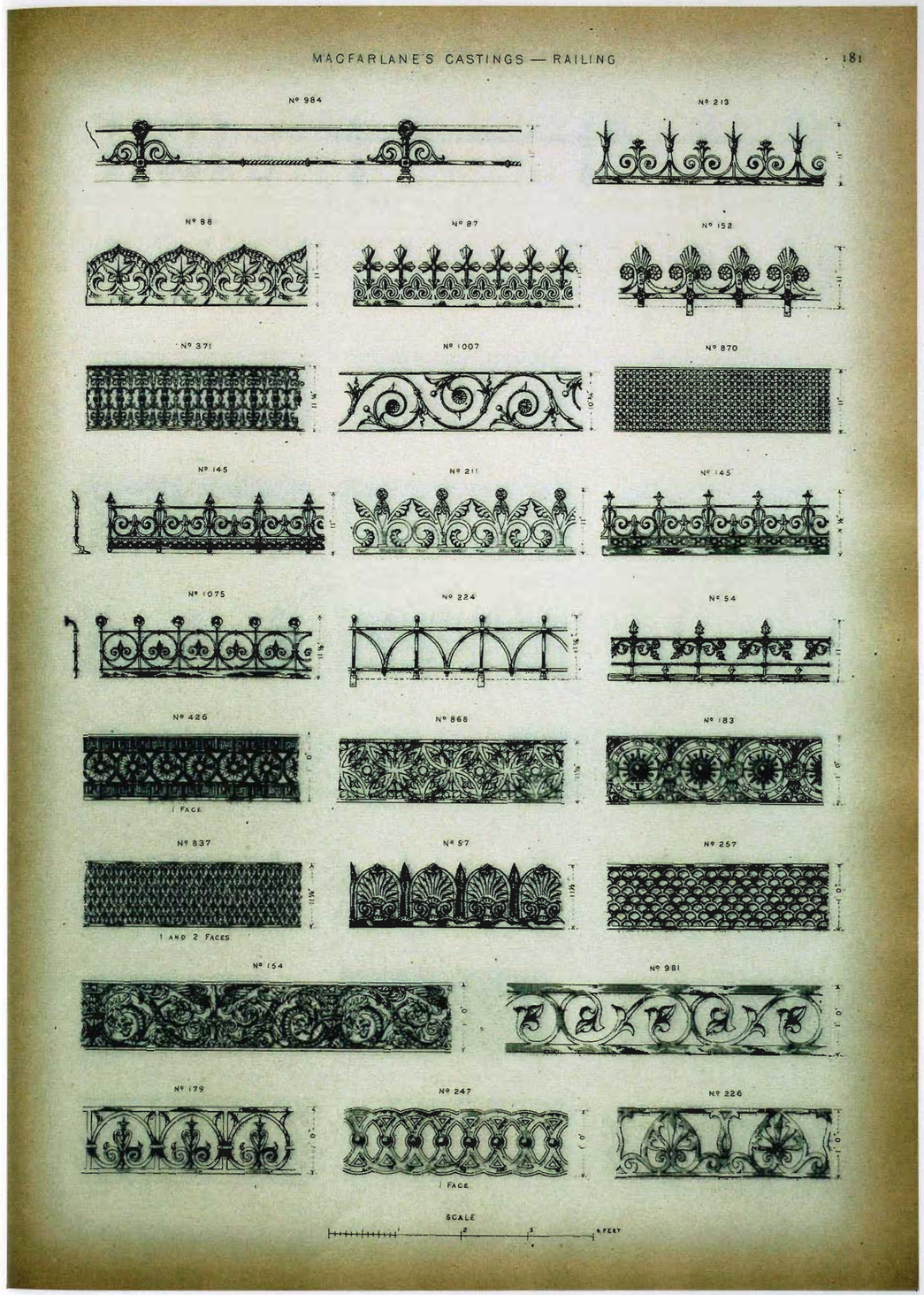
MACFARLANE'S CASTINGS — RAILING

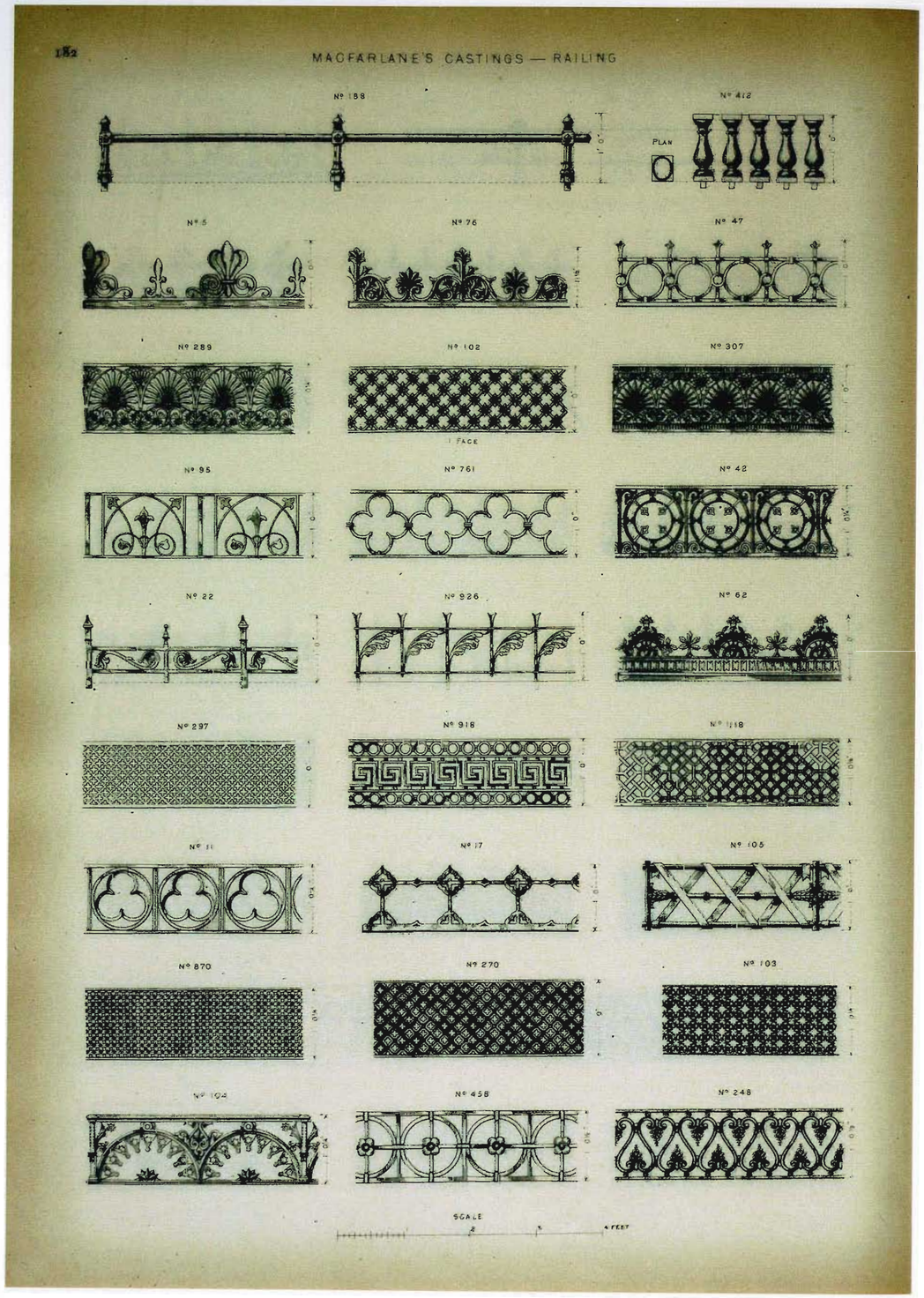
Nº 806 – 9' 0" LONG
Also 3' 6" and 6' 0" long, without wreath.

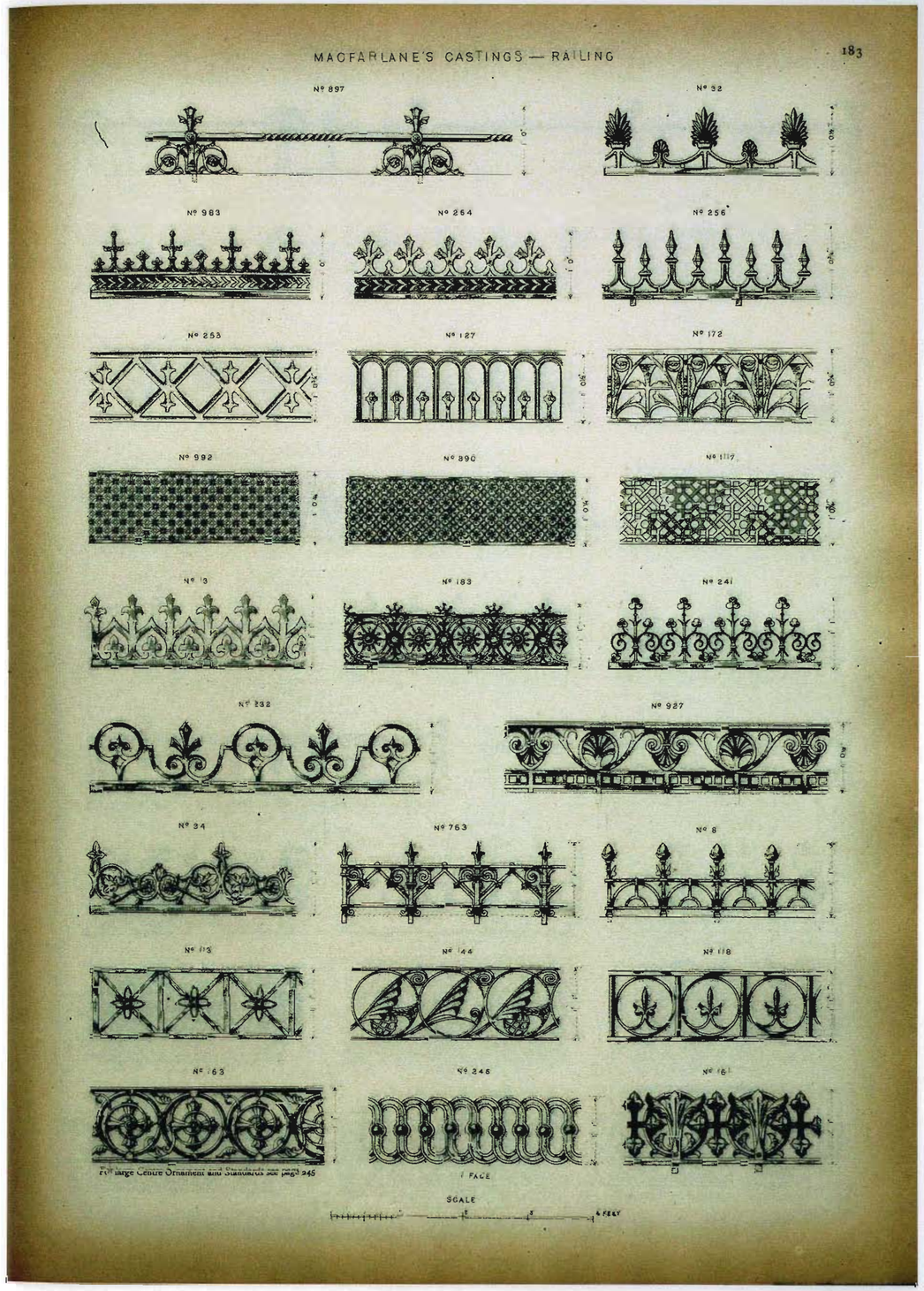


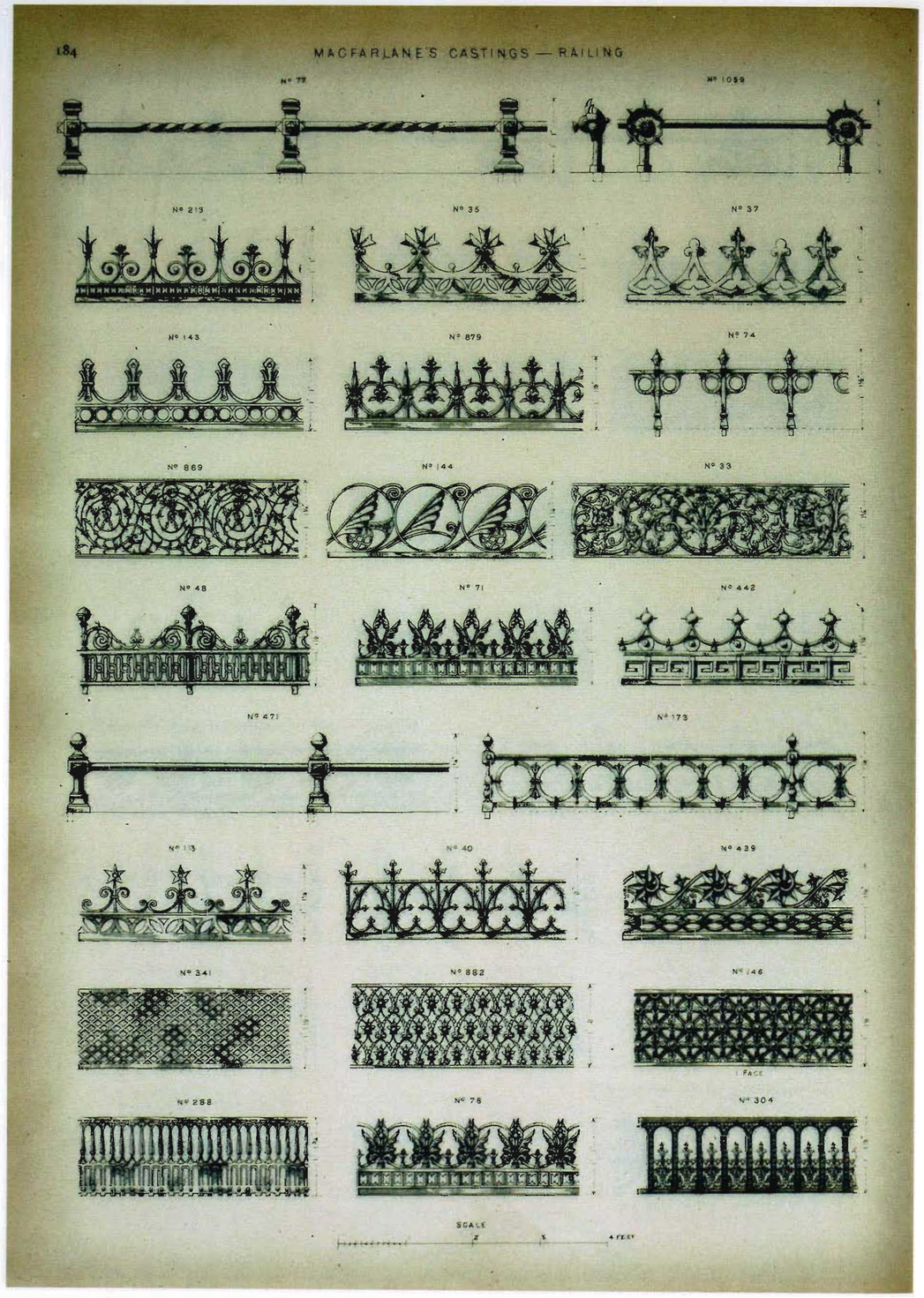
Either of the symbols, Star or Cross, can be substituted for Anchor shown in wreath. Other devices *to order*.

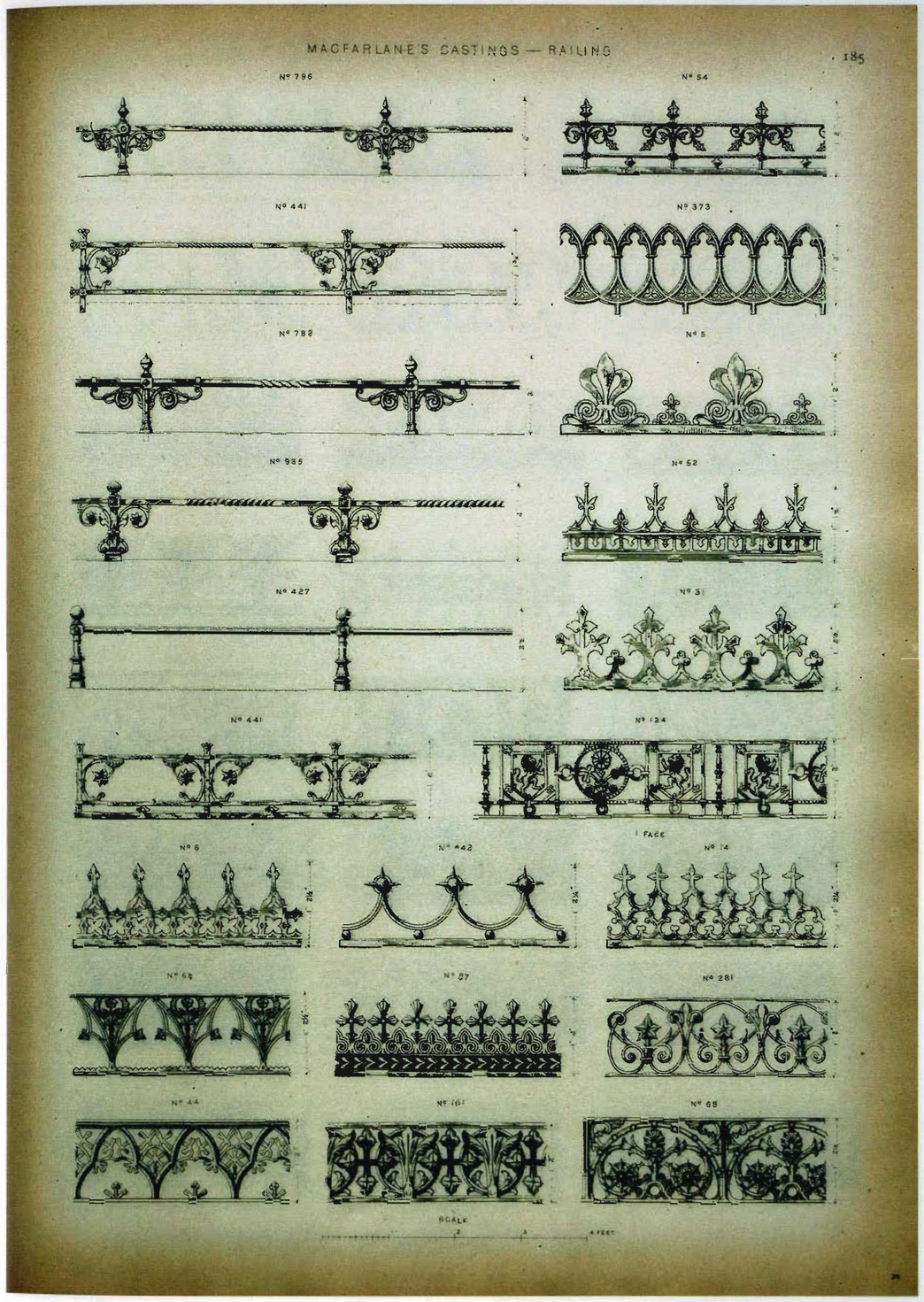


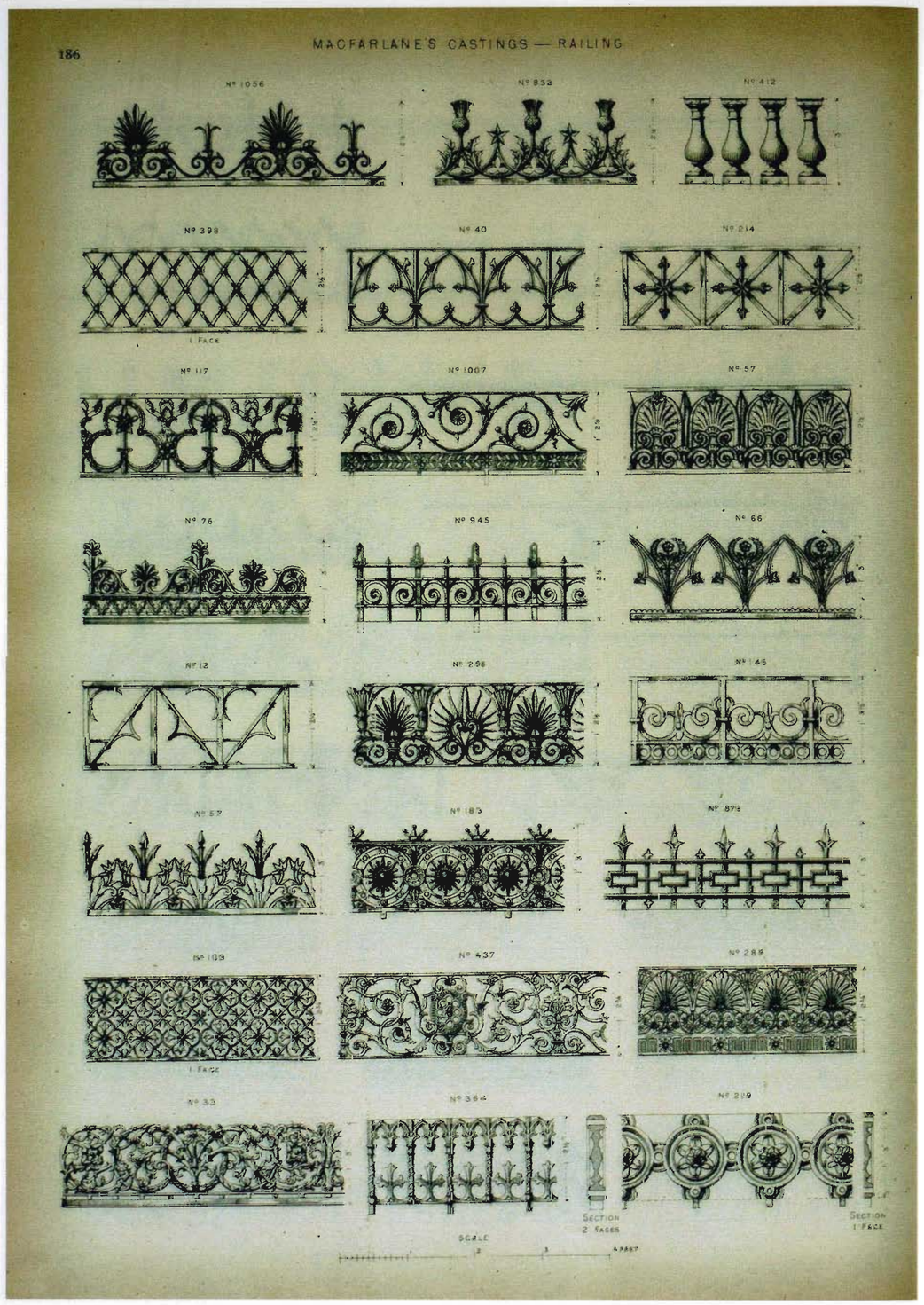


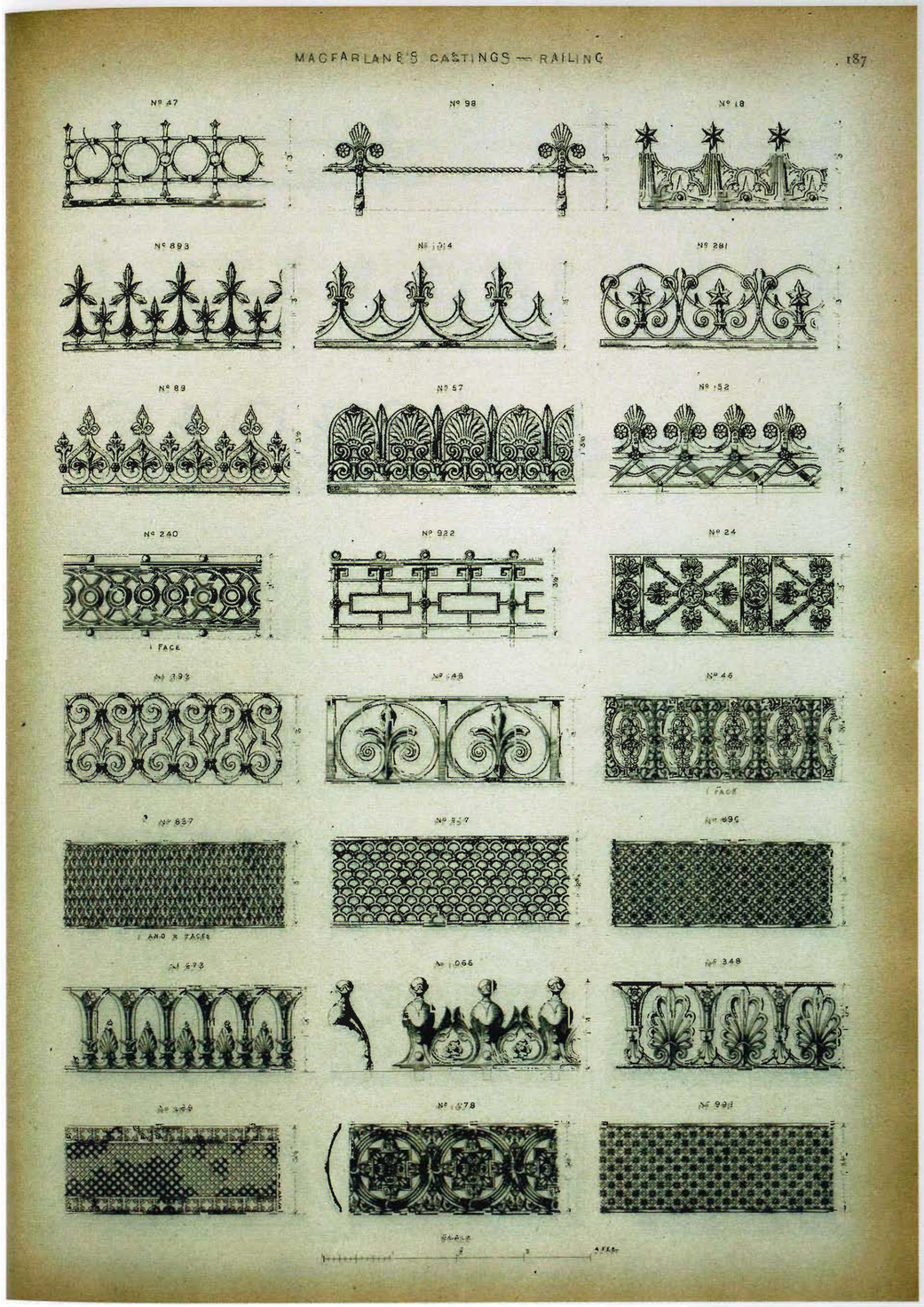

182
MACFARLANE'S CASTINGS — RAILING
Nº 188
Nº 412
PLAN
Nº 5
Nº 76
Nº 47
Nº 289
Nº 102
Nº 307
1 FACE
Nº 95
Nº 761
Nº 42
Nº 22
Nº 926
Nº 62
Nº 297
Nº 918
Nº 118
Nº 11
Nº 17
Nº 105
Nº 870
Nº 270
Nº 103
Nº 102
Nº 458
Nº 248
SCALE
2
0
4 FEET


MACFARLANE'S CASTINGS — RAILING
183
Nº 897
Nº 32
Nº 983
Nº 264
Nº 256
Nº 253
Nº 127
Nº 172
Nº 992
Nº 890
Nº 1117
Nº 13
Nº 183
Nº 241
Nº 232
Nº 927
Nº 34
Nº 763
Nº 8
Nº 113
Nº 144
Nº 118
Nº 163
Nº 245
Nº 161
1 FACE
SCALE
0
2
4 FEET


184
MACFARLANE'S CASTINGS — RAILING
Nº 77
Nº 1059
Nº 213
Nº 35
Nº 37
Nº 143
Nº 879
Nº 74
Nº 869
Nº 144
Nº 33
Nº 48
Nº 71
Nº 442
Nº 471
Nº 173
Nº 113
Nº 40
Nº 439
Nº 341
Nº 882
Nº 146
1 FACE
Nº 288
Nº 76
Nº 304
SCALE
2
3
4 FEET


MACFARLANE'S CASTINGS — RAILING
185
Nº 796
Nº 54
Nº 441
Nº 373
Nº 782
Nº 5
Nº 935
Nº 52
Nº 427
Nº 31
Nº 441
Nº 124
1 FACE
Nº 6
Nº 442
Nº 14
Nº 56
Nº 57
Nº 281
Nº 44
Nº 161
Nº 68
SCALE
2
3
4 FEET


186
MACFARLANE'S CASTINGS — RAILING
Nº 1056
Nº 832
Nº 412
Nº 398
Nº 40
Nº 214
1 FACE
Nº 117
Nº 1067
Nº 57
Nº 76
Nº 945
Nº 66
Nº 12
Nº 298
Nº 145
Nº 57
Nº 183
Nº 879
Nº 109
Nº 437
Nº 288
1 FACE
Nº 33
Nº 364
Nº 219
SECTION 2 FACES
SECTION 1 FACE
SCALE


MACFARLANE'S CASTINGS — RAILING
187
Nº 47
Nº 98
Nº 18
Nº 893
Nº 1014
Nº 281
Nº 89
Nº 57
Nº 52
Nº 240
Nº 922
Nº 24
1 FACE
Nº 393
Nº 148
Nº 46
1 FACE
Nº 857
Nº 757
Nº 696
1 AND 2 FACES
Nº 573
Nº 1066
Nº 348
Nº 1678
Nº 998
SCALE

188

MACFARLANE'S CASTINGS — RAILING

Nº 901

Nº 897

Nº 65

Nº 19

Nº 10

Nº 907

Nº 232

Nº 1075

Nº 36

Nº 183

Nº 798

Nº 163

Nº 895

Nº 241

Nº 51

Nº 273

Nº 1078

Nº 994

Nº 270

Nº 310

Nº 48

Nº 342

1 FACE

SCALE 2 3 4 FEET

MACFARLANE'S CASTINGS — RAILING

189

Nº 1081

Nº 1089

Nº 35

Nº 239

Nº 211

Nº 112

Nº 49

Nº 179

Nº 41

Nº 289

Nº 288

Flat 1' 5" high, also curved as section 1 4½ high.

Nº 1070

Nº 184

Nº 408

1 FACE

Nº 163

Nº 104

Nº 239

1 AND 2 FACES

For large Centre Ornament and Standards see page 261

Nº 220

Nº 38

Nº 75

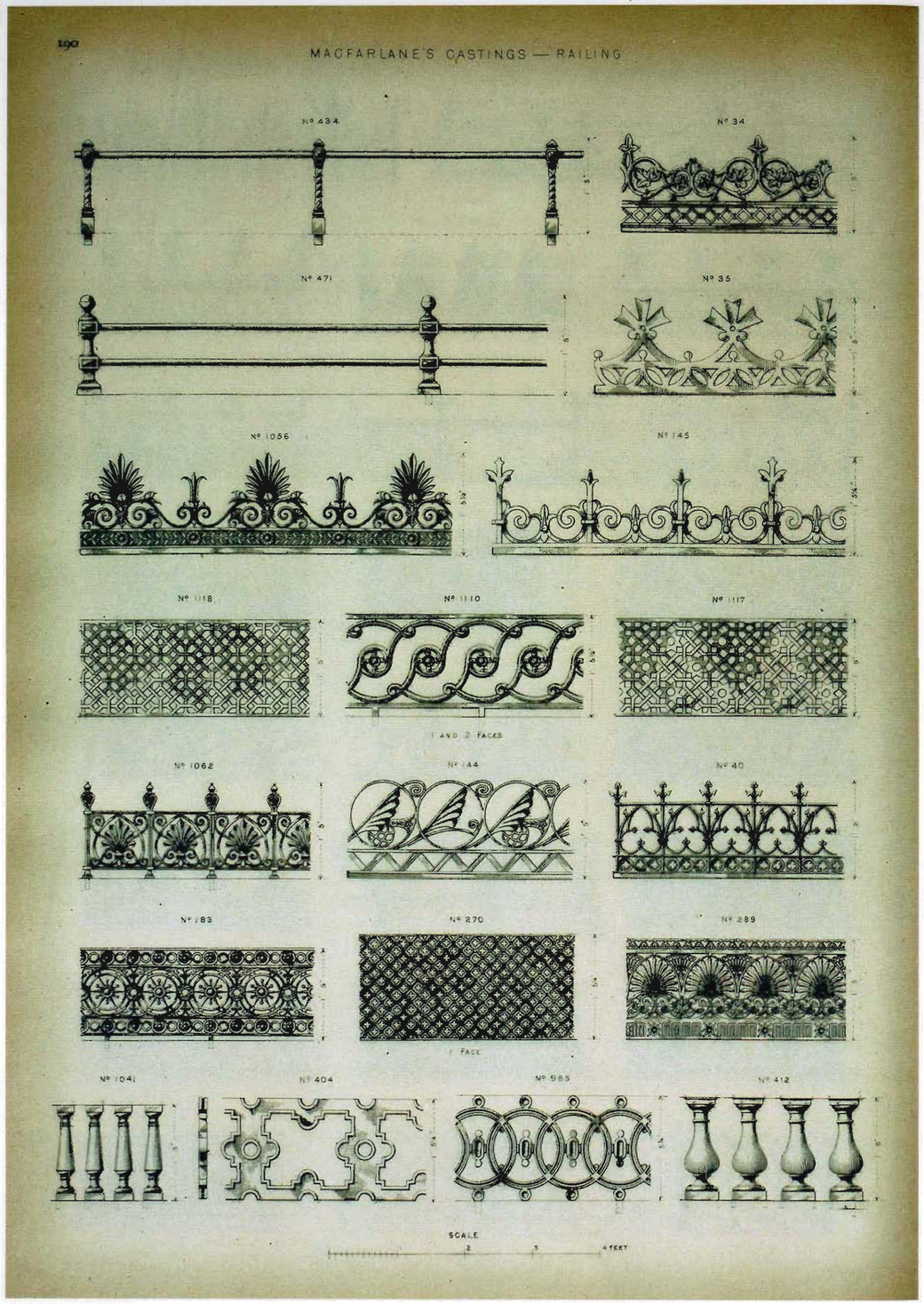
Nº 204

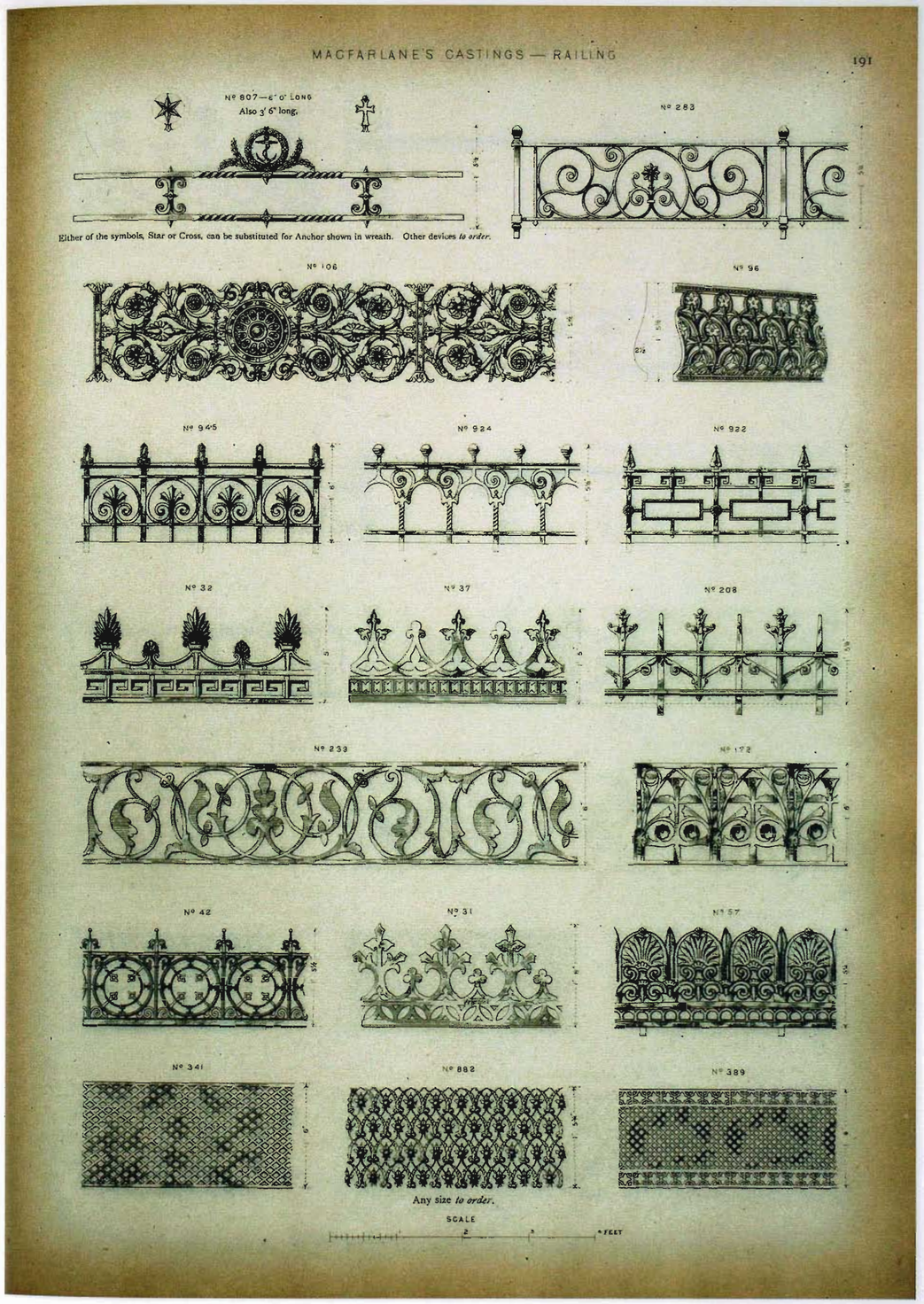
Nº 200

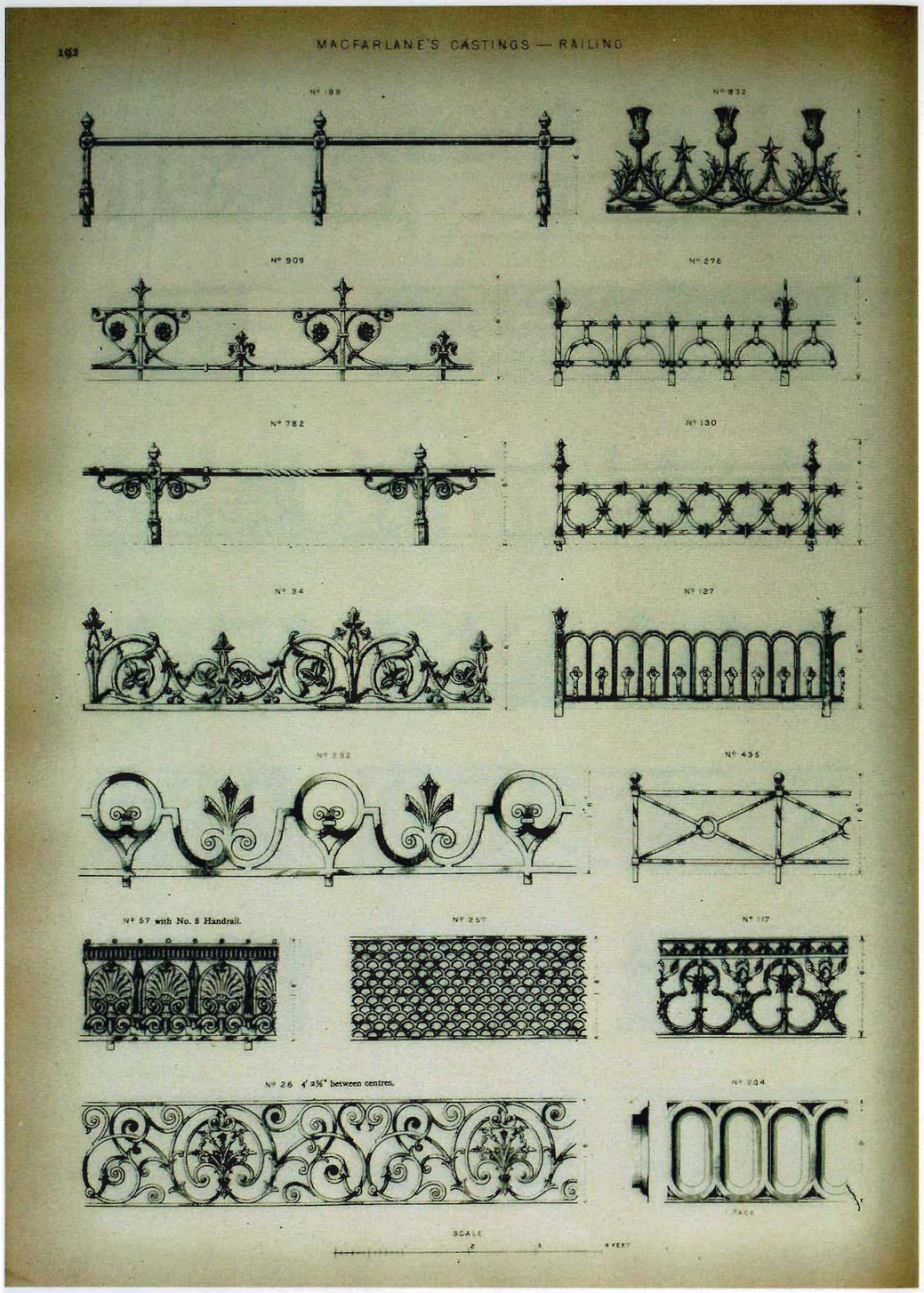
Nº 989

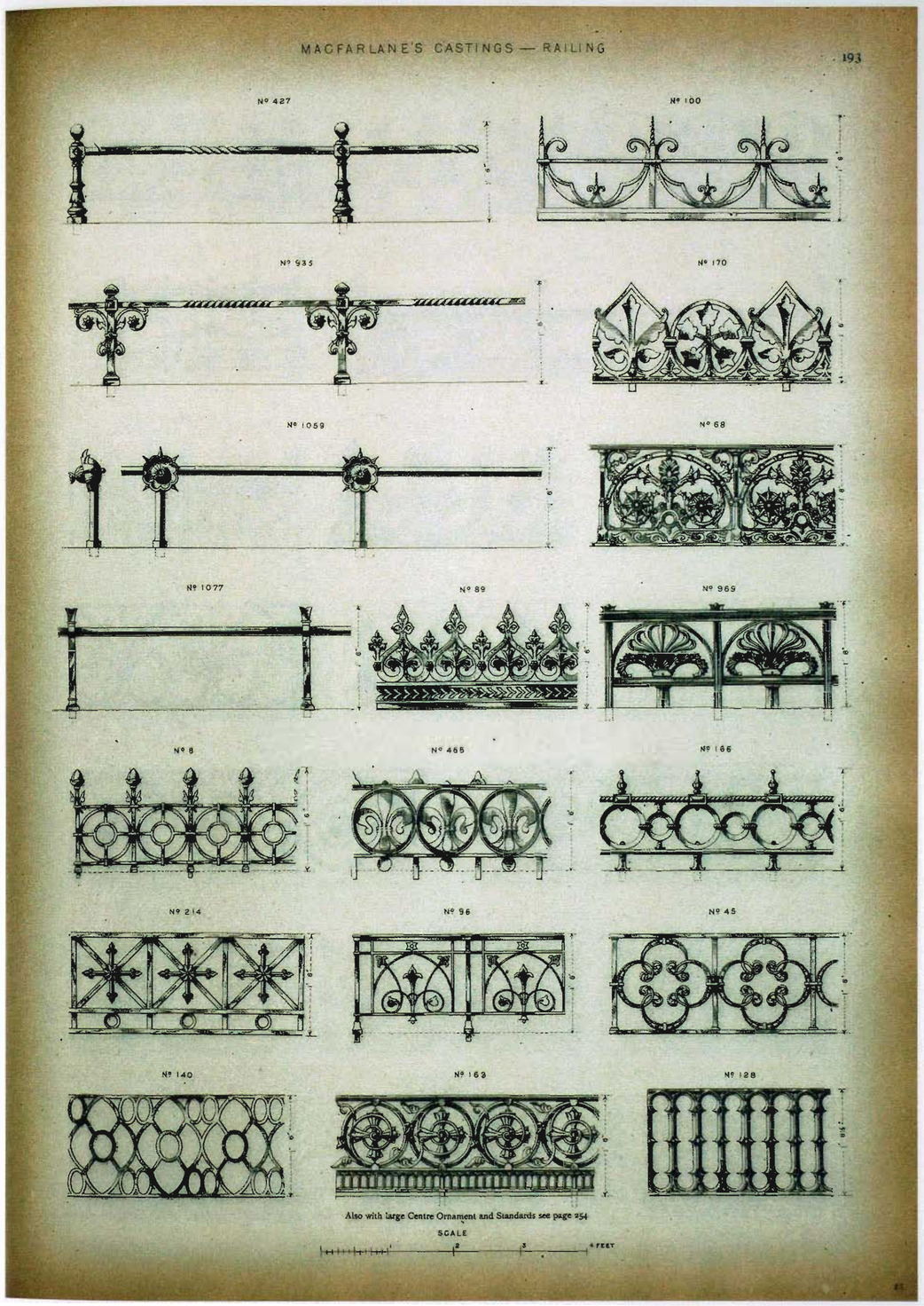
1 FACE

SCALE 2 3 4 FEET

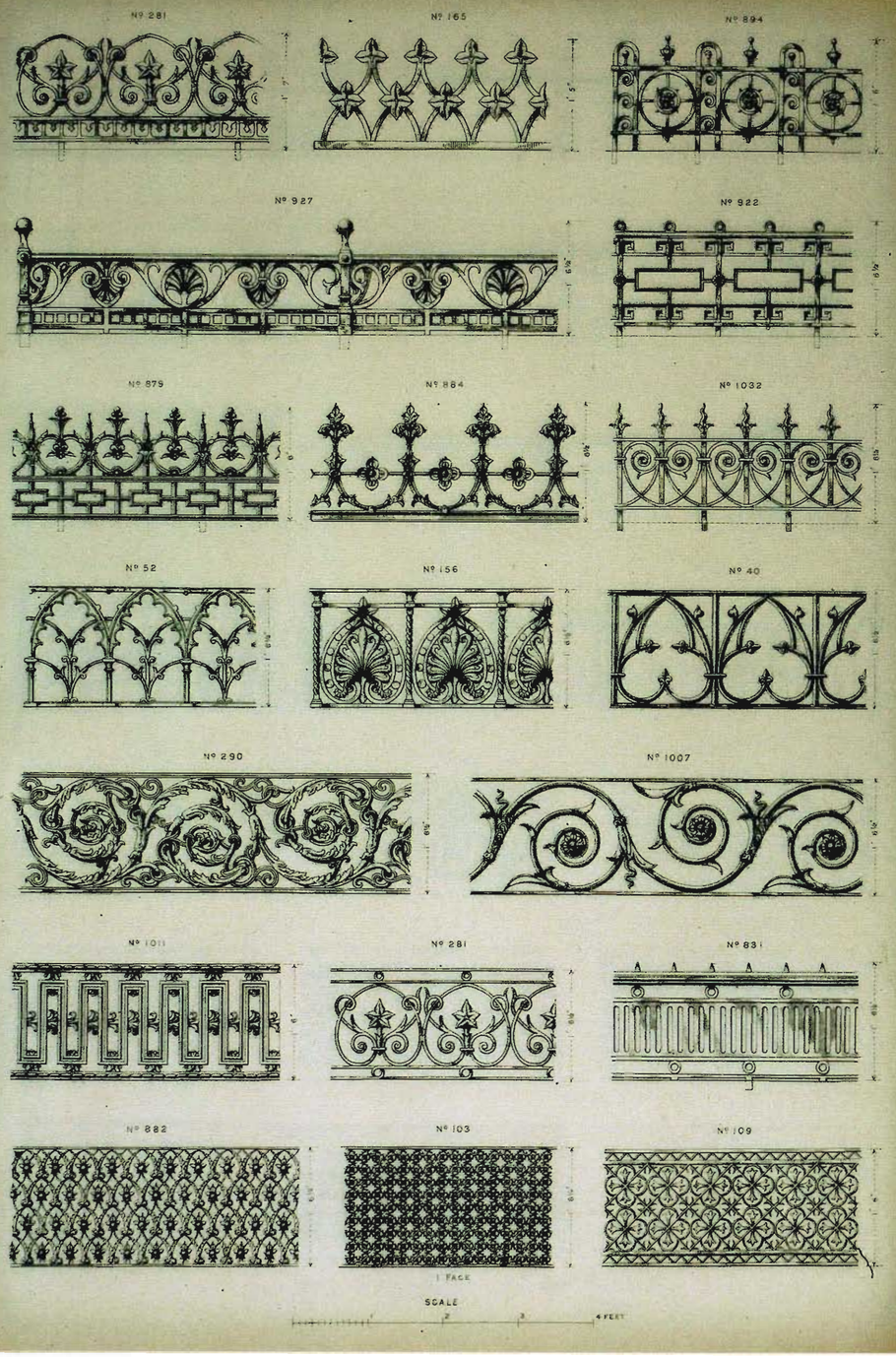

190
MACFARLANE'S CASTINGS — RAILING
Nº 434
Nº 34
Nº 471
Nº 35
Nº 1056
Nº 145
Nº 1118
Nº 1110
Nº 1117
1 AND 2 FACES
Nº 1062
Nº 144
Nº 40
Nº 783
Nº 270
Nº 289
1 FACE
Nº 1041
Nº 404
Nº 985
Nº 412
SCALE
2
3
4 FEET


MACFARLANE'S CASTINGS — RAILING
191
Nº 807—6' 0" LONG
Also 3' 6" long.
Either of the symbols, Star or Cross, can be substituted for Anchor shown in wreath. Other devices *to order*.
Nº 283
Nº 106
Nº 96
Nº 945
Nº 924
Nº 922
Nº 32
Nº 37
Nº 208
Nº 233
Nº 172
Nº 42
Nº 31
Nº 57
Nº 341
Nº 882
Nº 389
Any size *to order*.
SCALE
2
3
4 FEET

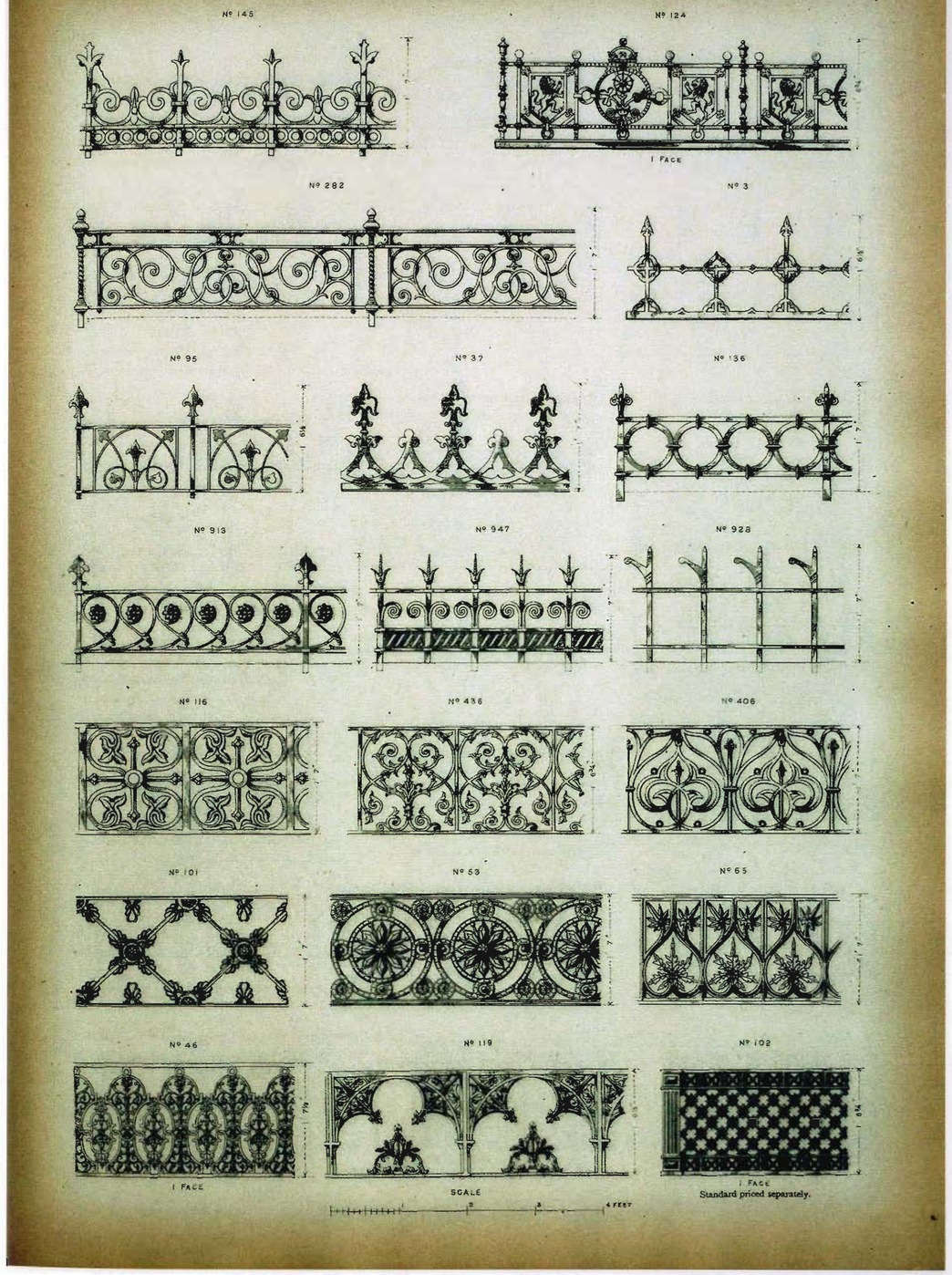

192
MACFARLANE'S CASTINGS — RAILING
Nº 188
Nº 832
Nº 909
Nº 276
Nº 782
Nº 130
Nº 34
Nº 127
Nº 232
Nº 435
Nº 57 with No. 8 Handrail.
Nº 257
Nº 117
Nº 26 4' 2½" between centres.
Nº 204
SCALE
2
3
4 FEET

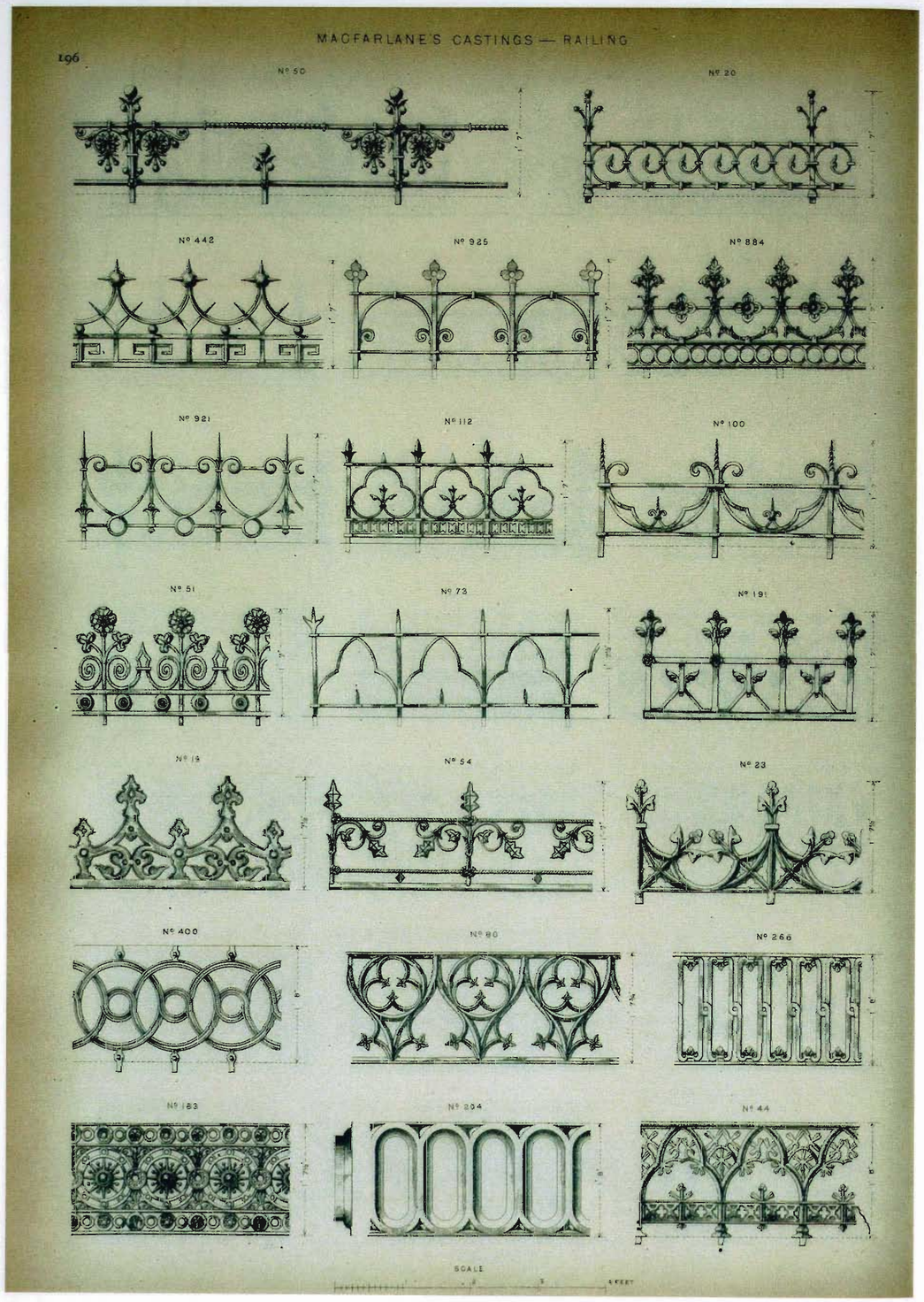

MACFARLANE'S CASTINGS — RAILING
193
Nº 427
Nº 100
Nº 935
Nº 170
Nº 1059
Nº 68
Nº 1077
Nº 89
Nº 969
Nº 8
Nº 465
Nº 166
Nº 214
Nº 96
Nº 45
Nº 140
Nº 163
Nº 128
Also with large Centre Ornament and Standards see page 254
SCALE
2
3
4 FEET

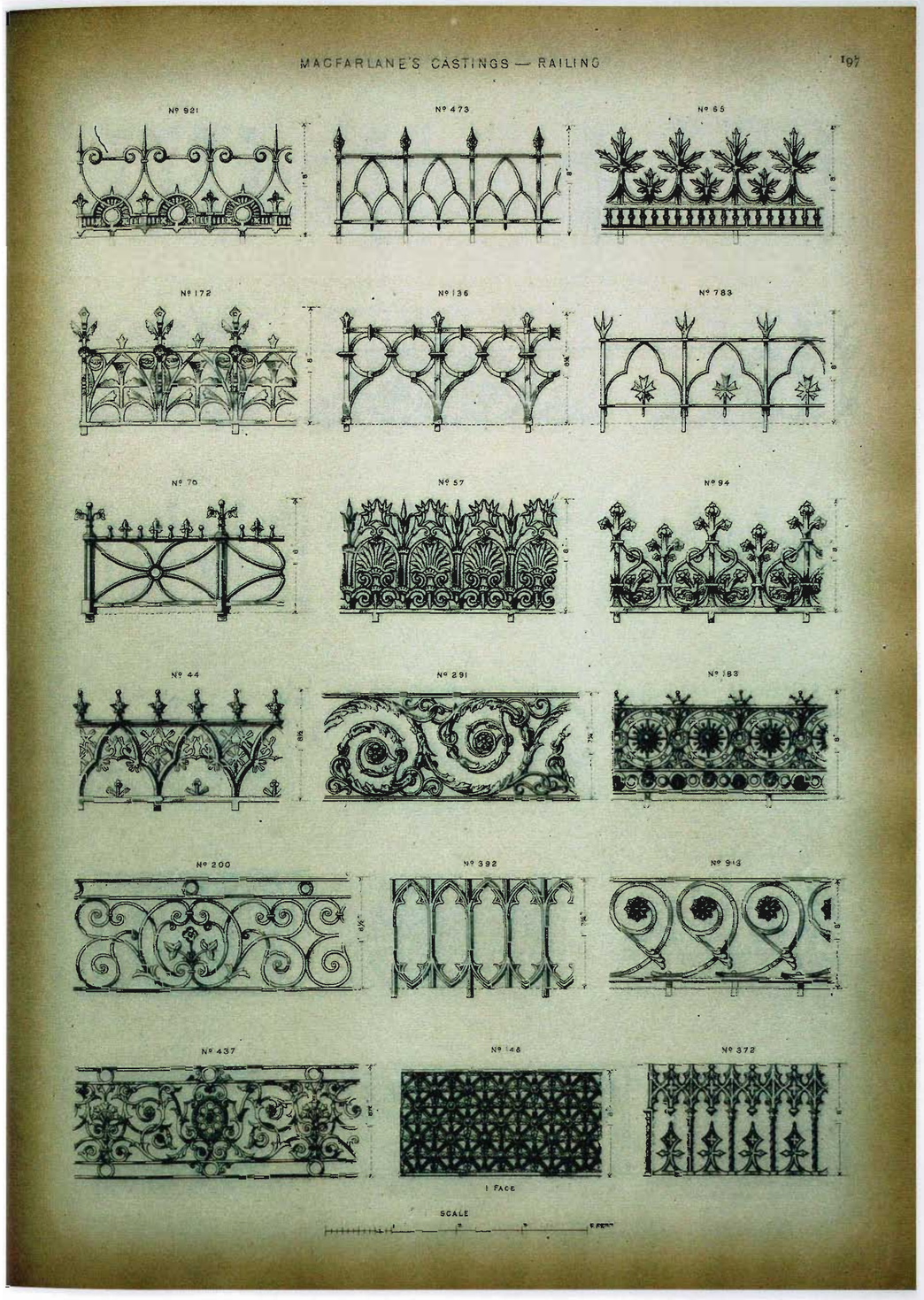
MACFARLANE'S CASTINGS — RAILING



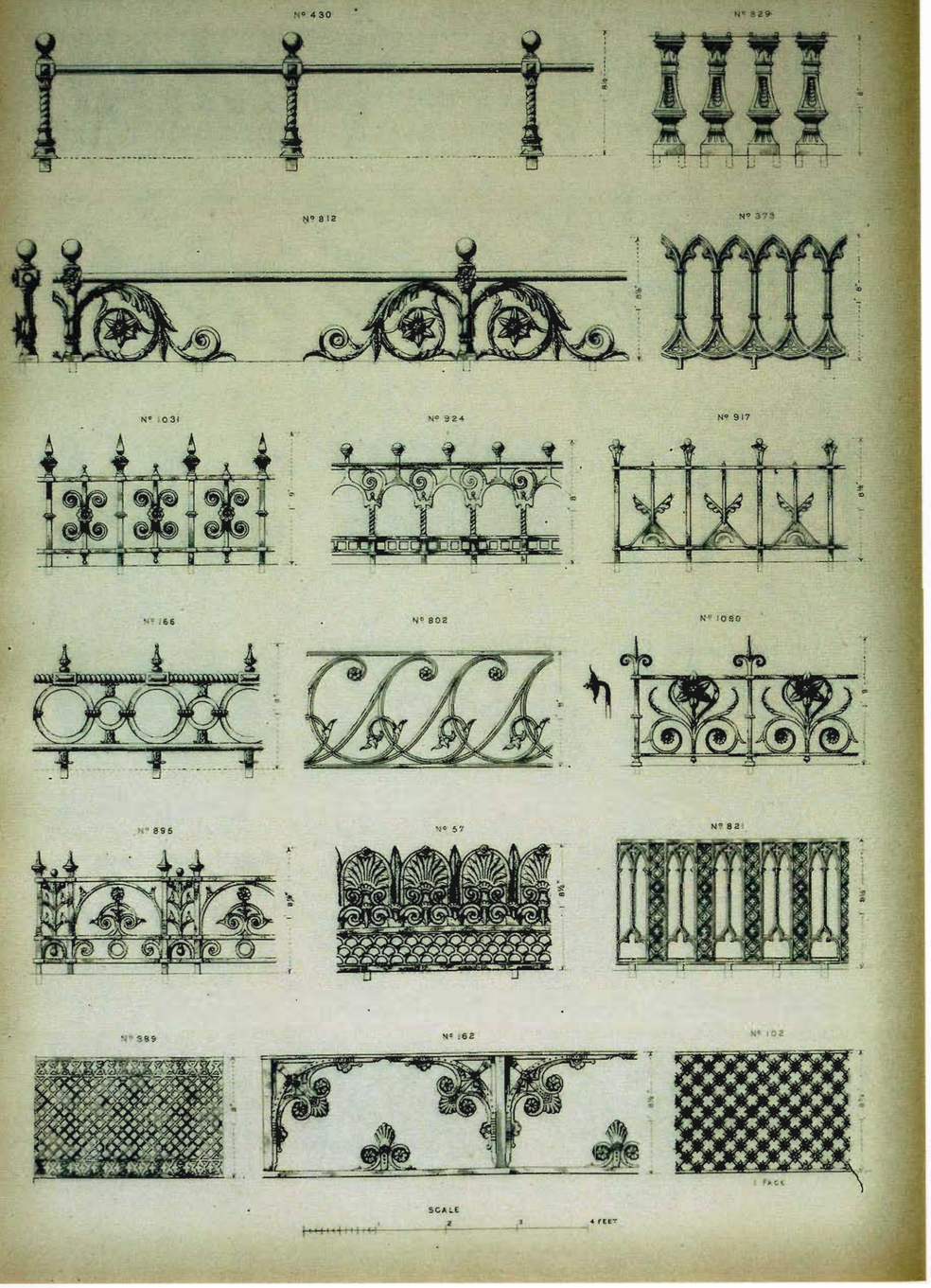
MACFARLANE'S CASTINGS — RAILING



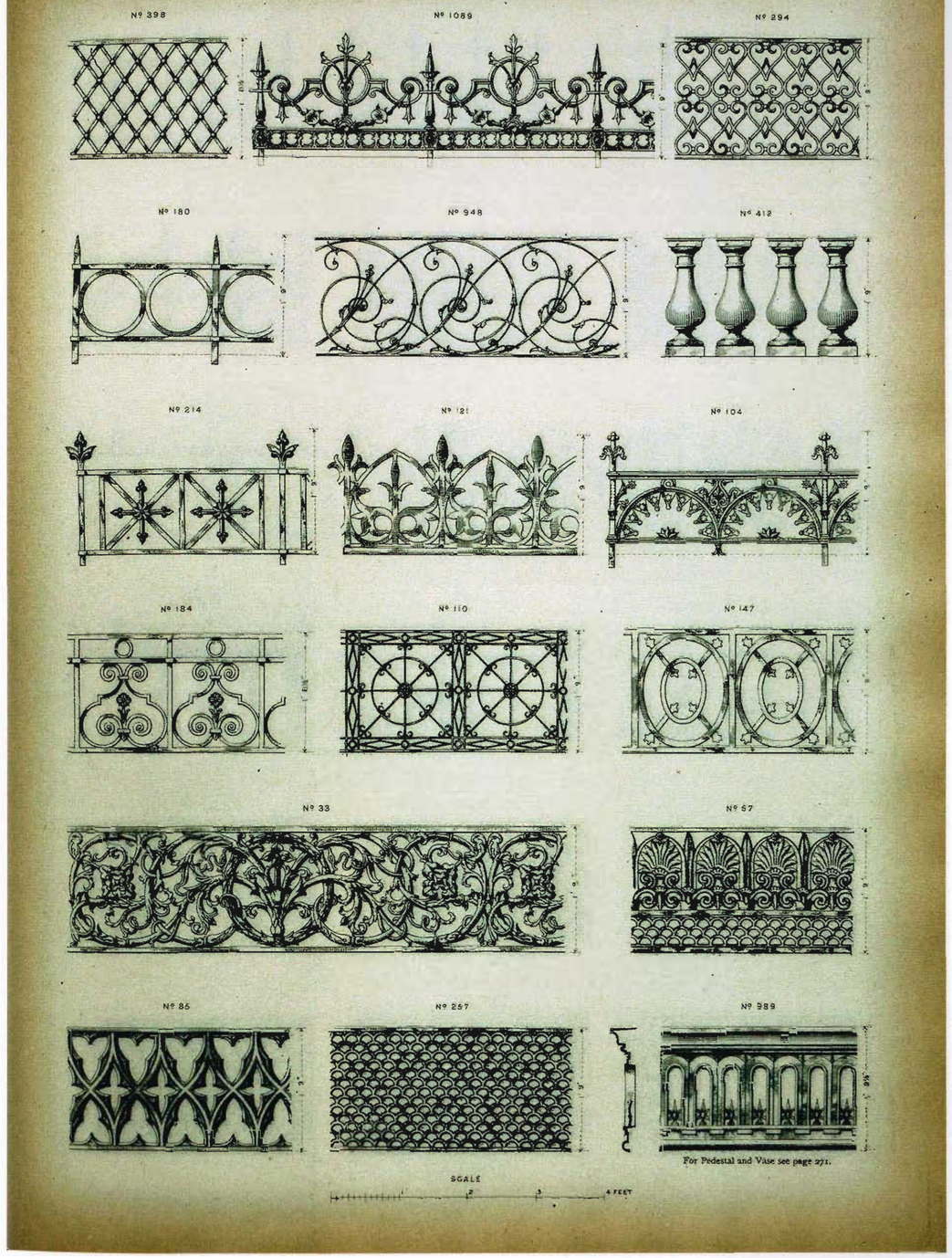

MACFARLANE'S CASTINGS — RAILING
196
Nº 50
Nº 20
Nº 442
Nº 925
Nº 884
Nº 921
Nº 112
Nº 100
Nº 51
Nº 73
Nº 191
Nº 19
Nº 54
Nº 23
Nº 400
Nº 80
Nº 266
Nº 183
Nº 204
Nº 44
SCALE
4 FEET


MACFARLANE'S CASTINGS — RAILING
197
Nº 921
Nº 473
Nº 65
Nº 172
Nº 136
Nº 783
Nº 70
Nº 57
Nº 94
Nº 44
Nº 291
Nº 183
Nº 200
Nº 392
Nº 913
Nº 437
Nº 146
Nº 372
1 FACE
SCALE
4 FEET

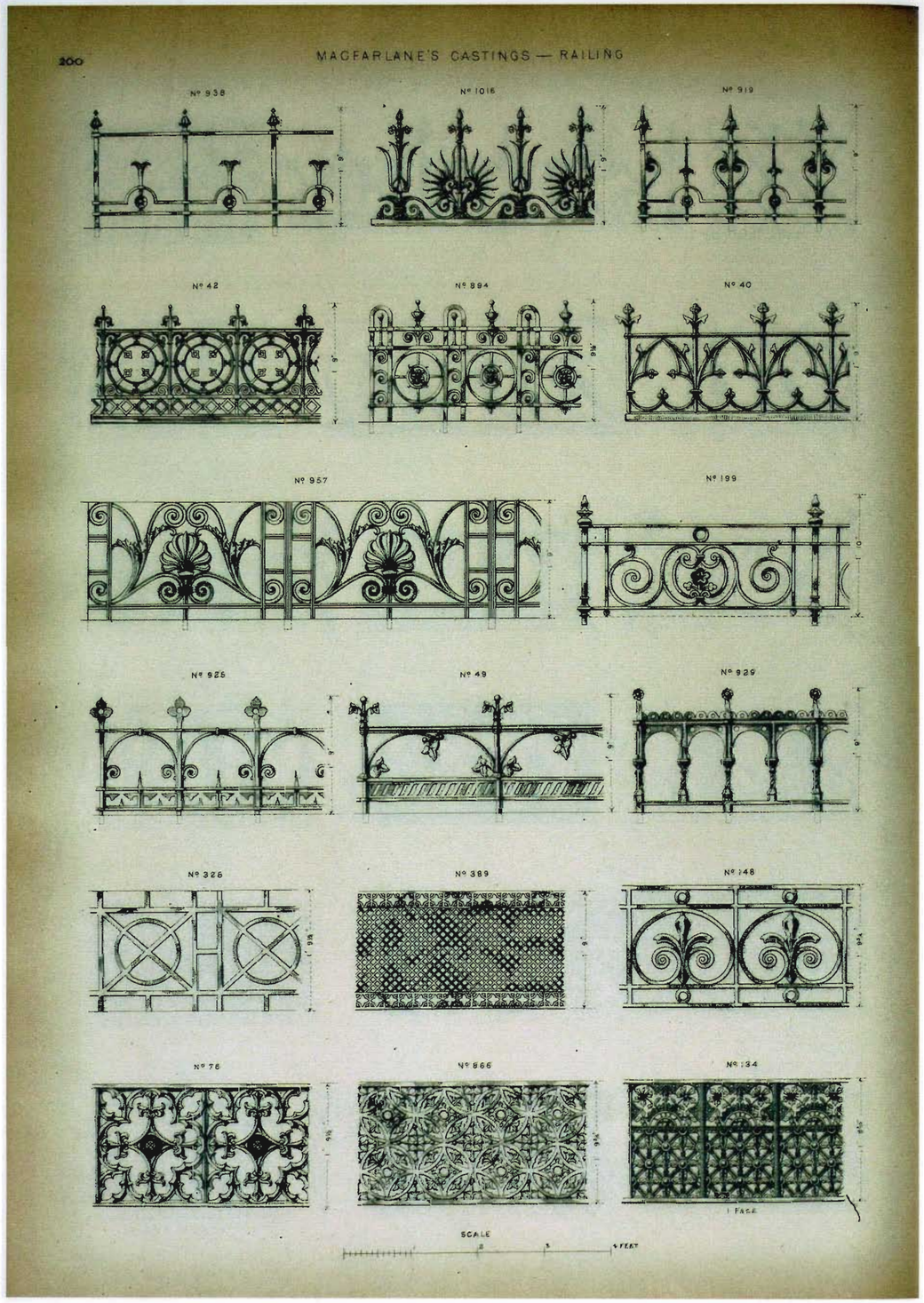
MACFARLANE'S CASTINGS — RAILING

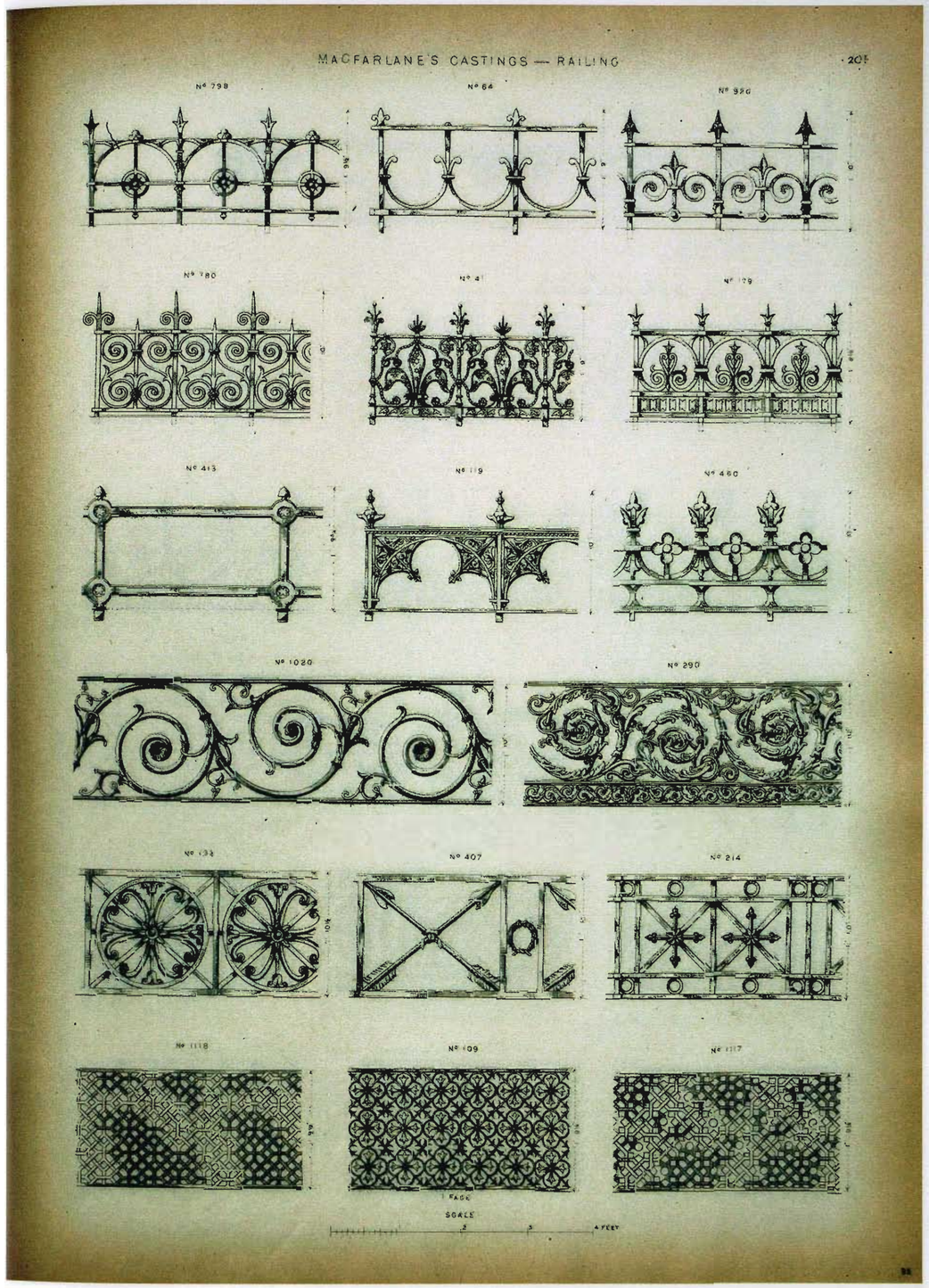


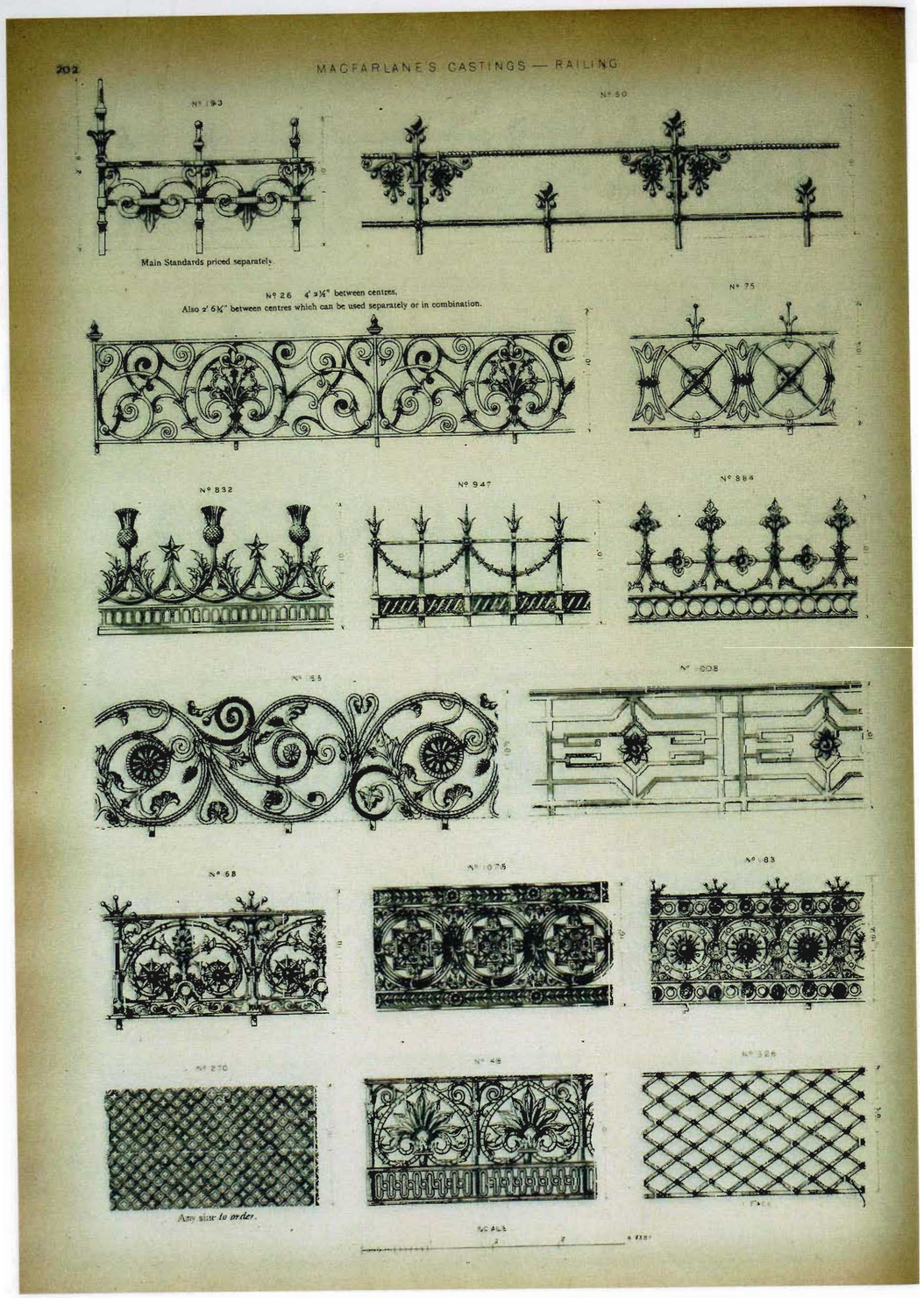
MACFARLANE'S CASTINGS — RAILING

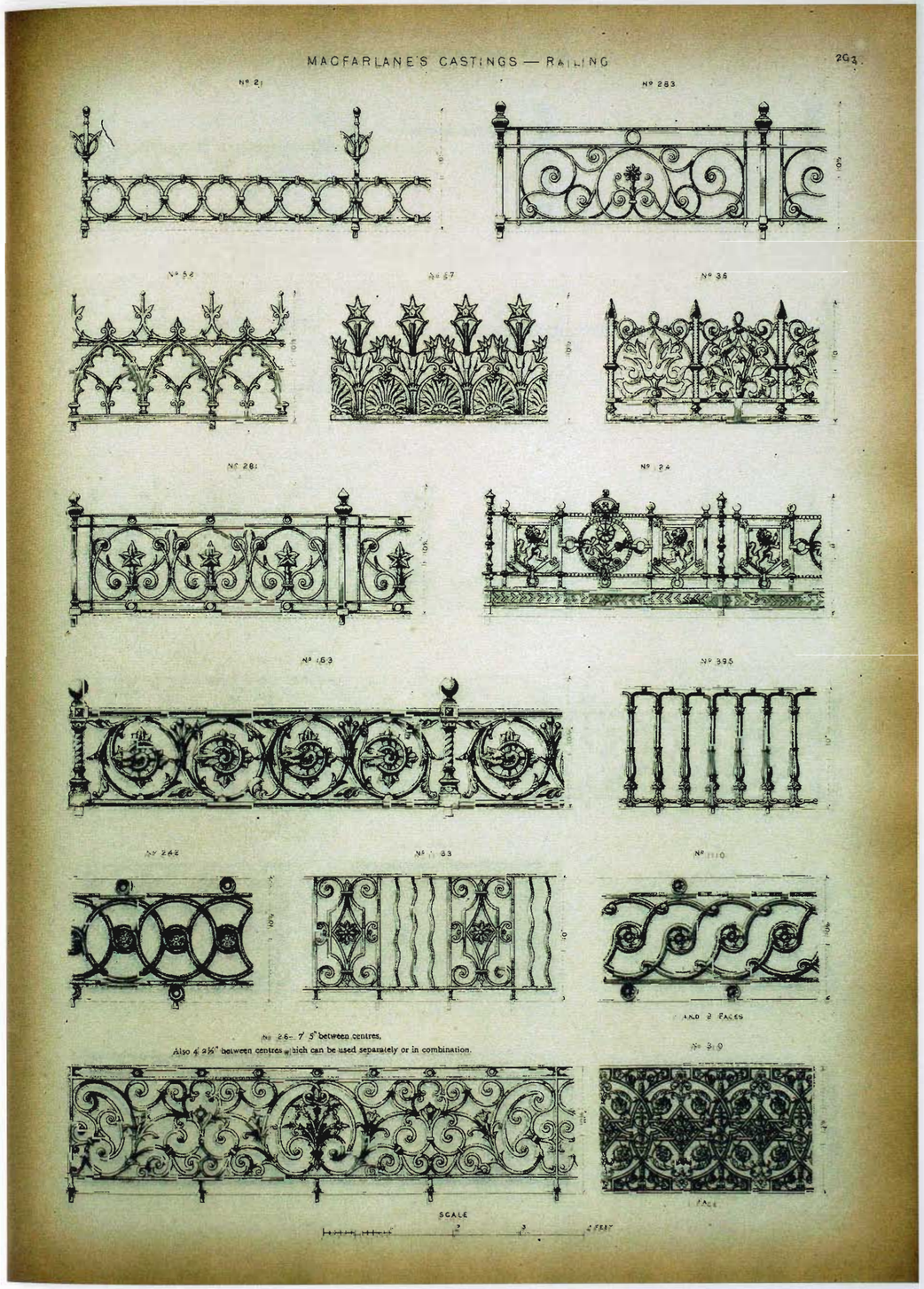


For Pedestal and Vase see page 271.

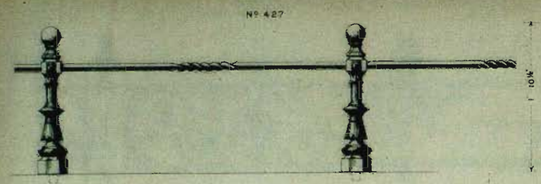

200
MACFARLANE'S CASTINGS — RAILING
Nº 938
Nº 1016
Nº 919
Nº 42
Nº 894
Nº 40
Nº 957
Nº 199
Nº 925
Nº 49
Nº 929
Nº 326
Nº 389
Nº 148
Nº 76
Nº 866
Nº 134
1 FACE
SCALE
2 3 4 FEET

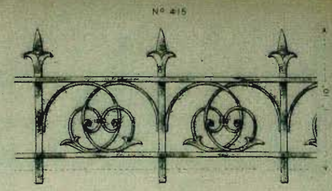

MACFARLANE'S CASTINGS — RAILING
201
Nº 798
Nº 64
Nº 936
Nº 780
Nº 41
Nº 179
Nº 413
Nº 119
Nº 480
Nº 1020
Nº 290
Nº 133
Nº 407
Nº 214
Nº 1118
Nº 109
Nº 1117
1 FACE
SCALE
2 3 4 FEET

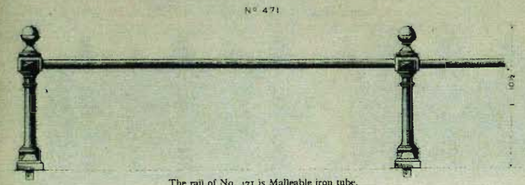

202
MACFARLANE'S CASTINGS — RAILING
Nº 193
Nº 50
Main Standards priced separately.
Nº 26 4' 2¼" between centres.
Also 2' 6¼" between centres which can be used separately or in combination.
Nº 75
Nº 832
Nº 947
Nº 884
Nº 155
Nº 1005
Nº 68
Nº 1075
Nº 183
Nº 270
Nº 48
Nº 326
Any size to order.
SCALE
2 FEET


MACFARLANE'S CASTINGS — RAILING
203
Nº 21
Nº 283
Nº 56
Nº 67
Nº 38
Nº 281
Nº 24
Nº 153
Nº 395
Nº 242
Nº 183
Nº 1110
AND 2 FACES
Nº 26 – 7' 5" between centres.
Also 4' 9½" between centres which can be used separately or in combination.
Nº 319
FACE
SCALE
2 FEET

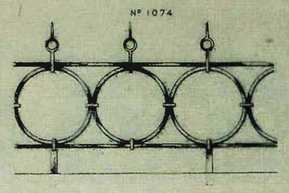
MACFARLANE'S CASTINGS — RAILING

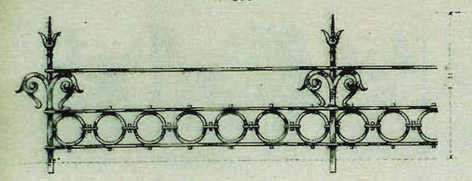


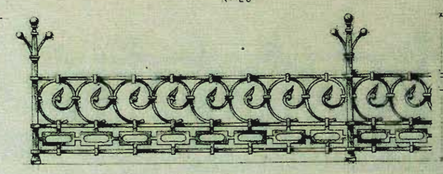




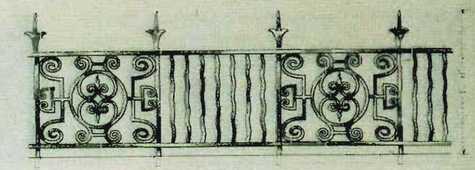
The rail of No. 471 is Malleable iron tube.

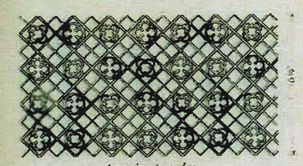






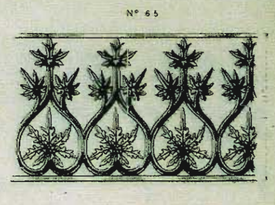






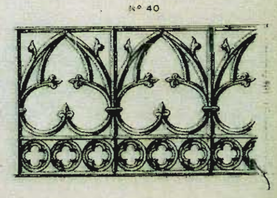
Any size *to order*.





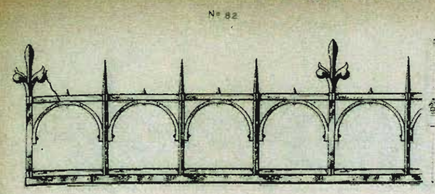


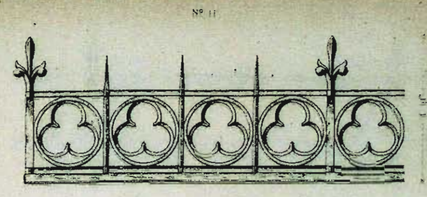


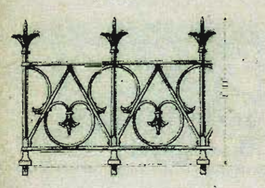


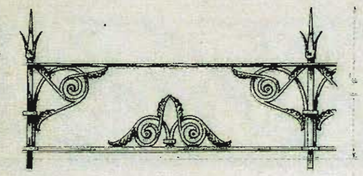
SCALE 2 3 4 FEET

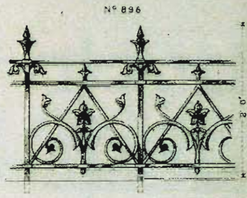
MACFARLANE'S CASTINGS — RAILING

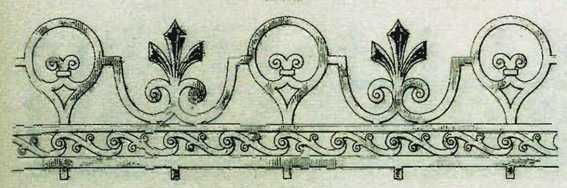


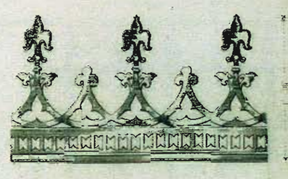




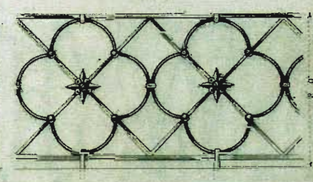


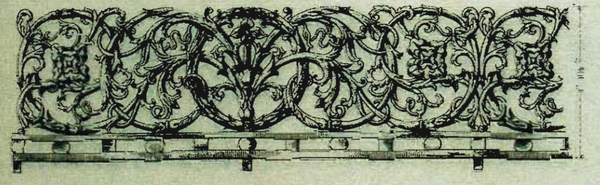


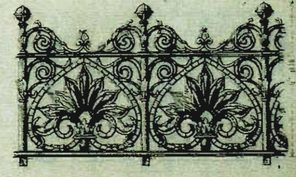




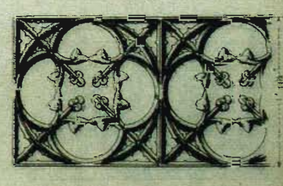




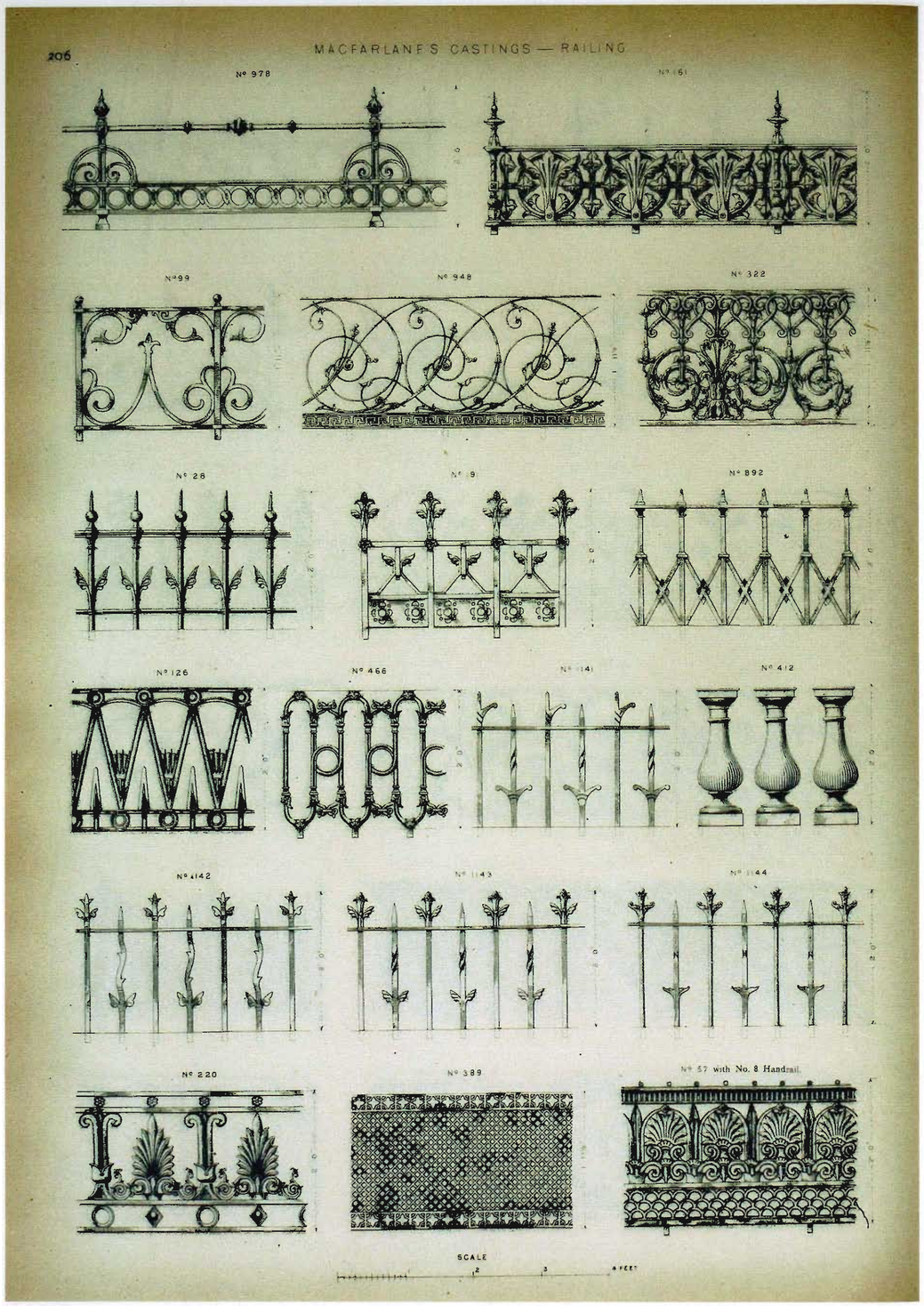


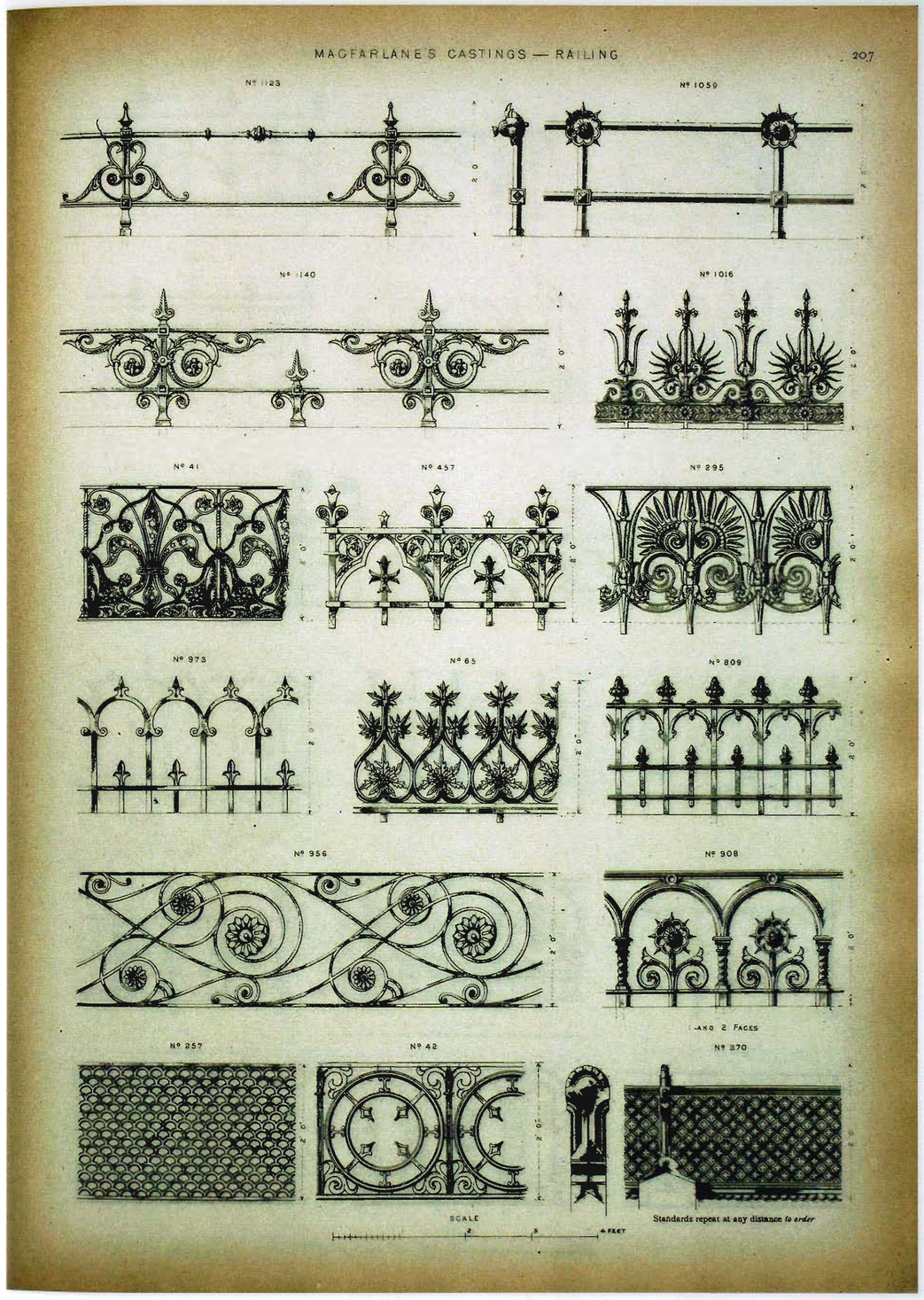




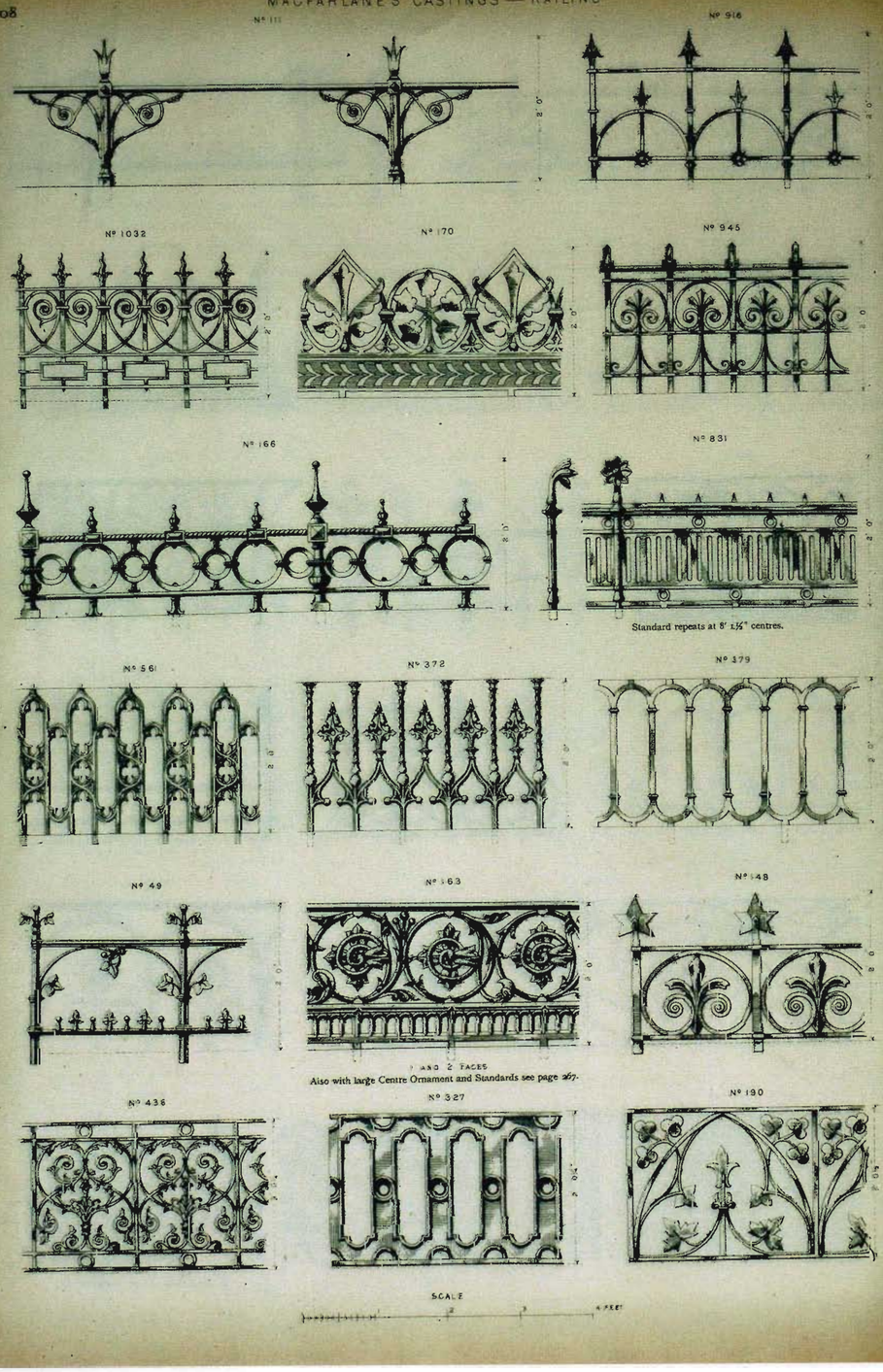


SCALE 2 3 4 FEET

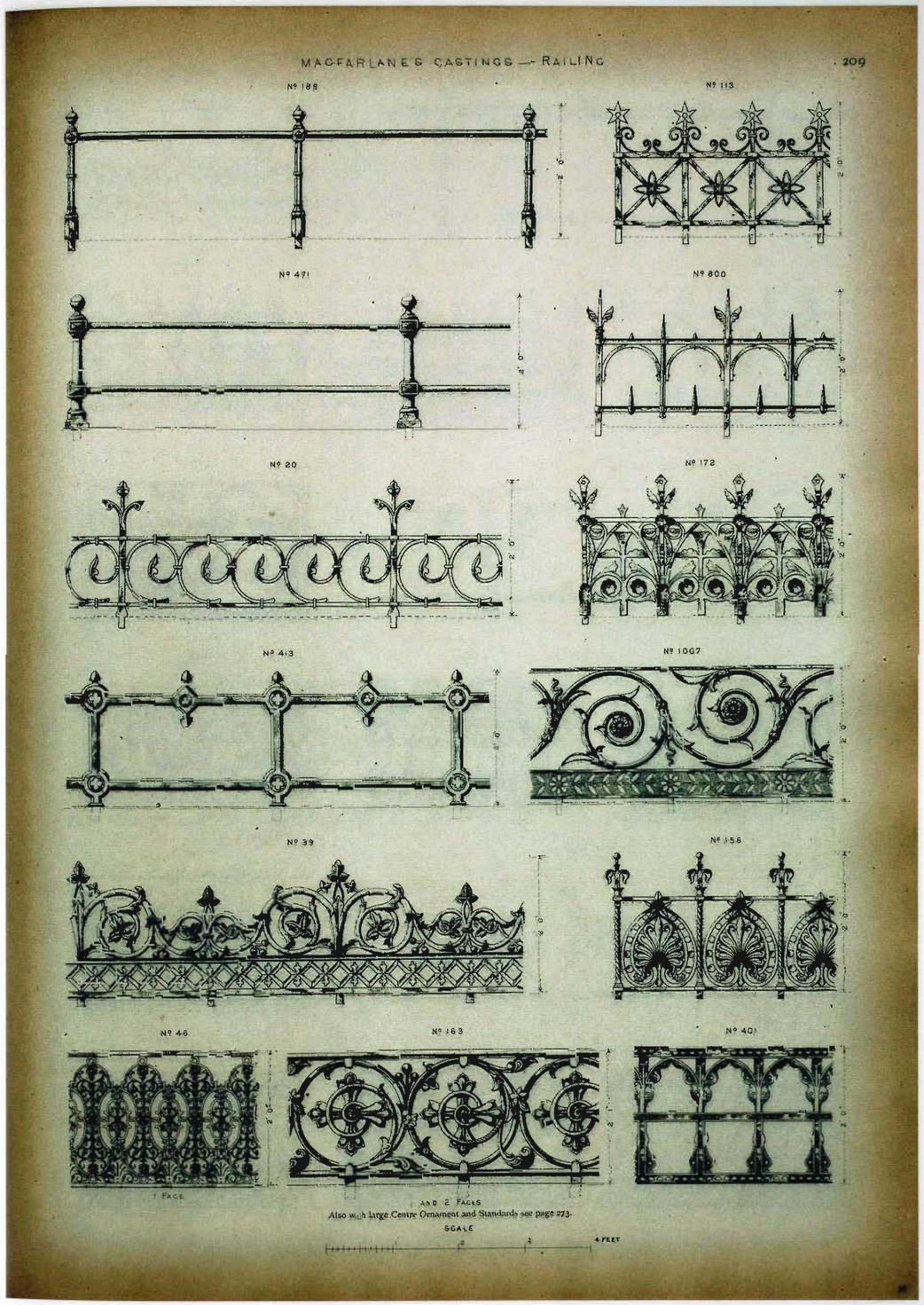

206
MACFARLANE'S CASTINGS — RAILING
Nº 978
Nº 151
Nº 99
Nº 948
Nº 322
Nº 28
Nº 9
Nº 892
Nº 126
Nº 466
Nº 141
Nº 412
Nº 4142
Nº 1143
Nº 1144
Nº 220
Nº 389
Nº 57 with No. 8 Handrail
SCALE
2
3
4 FEET

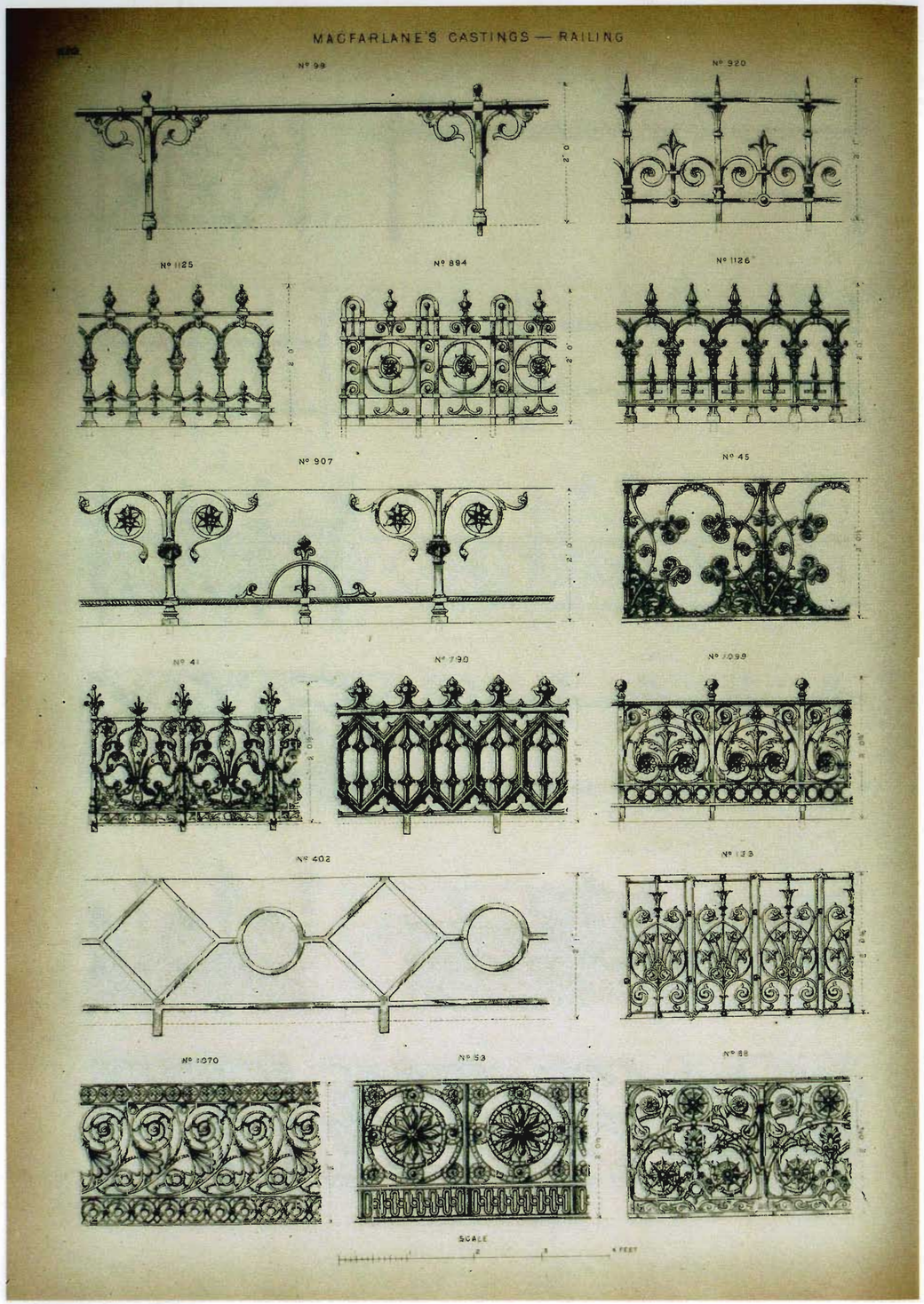

MACFARLANE'S CASTINGS — RAILING
207
Nº 1123
Nº 1059
Nº 1140
Nº 1016
Nº 41
Nº 457
Nº 295
Nº 973
Nº 65
Nº 809
Nº 956
Nº 908
AND 2 FACES
Nº 257
Nº 42
Nº 270
SCALE
4 FEET
Standards repeat at any distance to order

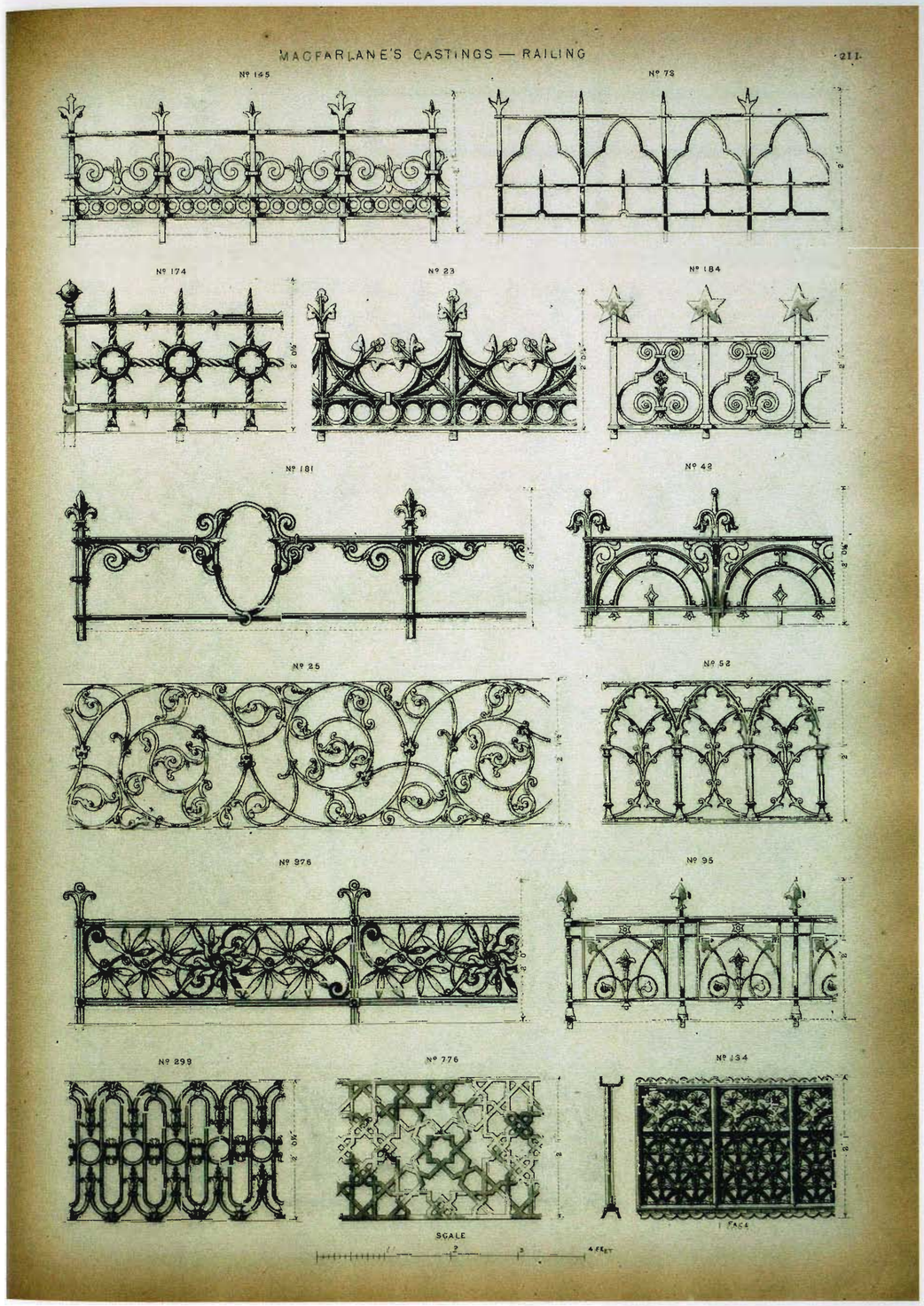
MACFARLANE'S CASTINGS — RAILING

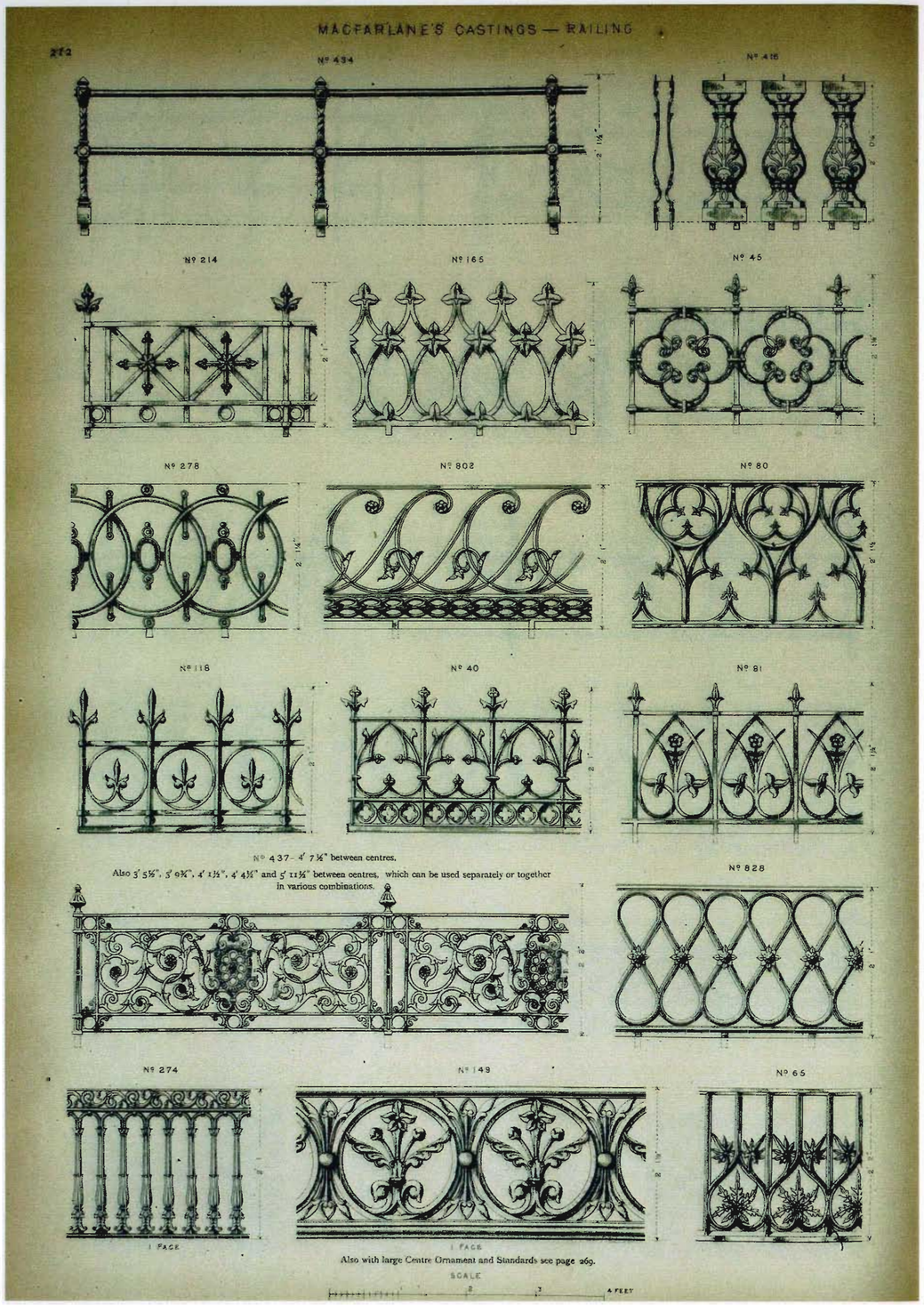


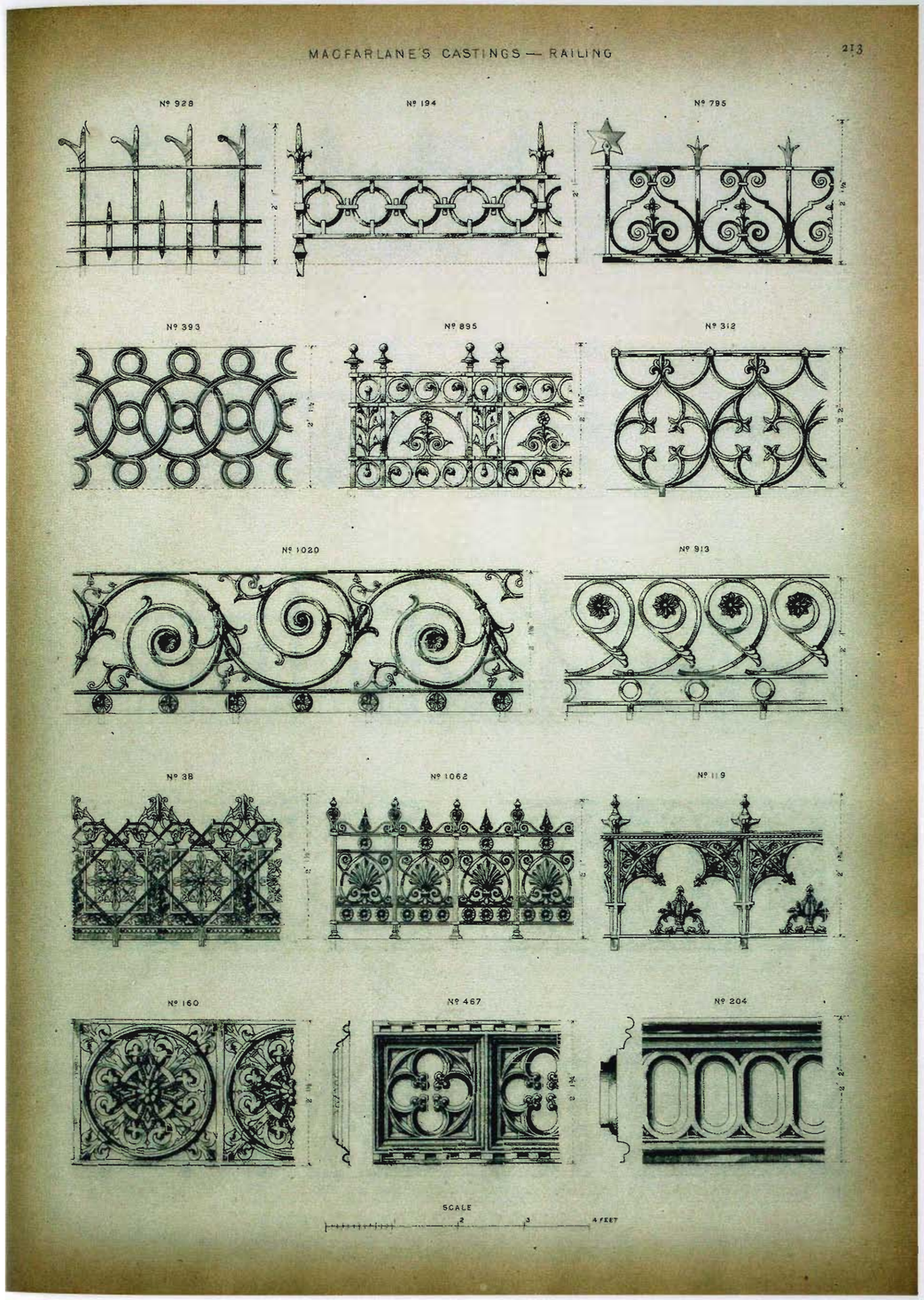
MACFARLANE'S CASTINGS — RAILING




MACFARLANE'S CASTINGS — RAILING
Nº 99
Nº 920
Nº 1125
Nº 894
Nº 1126
Nº 907
Nº 45
Nº 41
Nº 790
Nº 1099
Nº 402
Nº 133
Nº 1070
Nº 53
Nº 88
SCALE
1 2 3 4 FEET

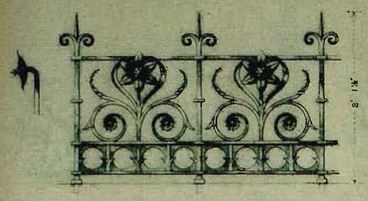

MACFARLANE'S CASTINGS — RAILING
211
Nº 145
Nº 73
Nº 174
Nº 23
Nº 184
Nº 181
Nº 42
Nº 25
Nº 52
Nº 976
Nº 95
Nº 299
Nº 776
Nº 134
SCALE
1 2 3 4 FEET


MACFARLANE'S CASTINGS — RAILING
212
Nº 434
Nº 416
Nº 214
Nº 165
Nº 45
Nº 278
Nº 802
Nº 80
Nº 118
Nº 40
Nº 81
Nº 437 – 4′ 7½″ between centres.
Also 3′ 5½″, 3′ 9¾″, 4′ 1½″, 4′ 4½″ and 5′ 11½″ between centres, which can be used separately or together in various combinations.
Nº 826
Nº 274
Nº 149
Nº 65
1 PACE
1 PACE
Also with large Centre Ornament and Standards see page 269.
SCALE
2
3
4 FEET

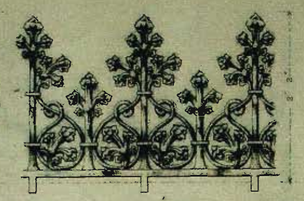

MACFARLANE'S CASTINGS — RAILING
213
Nº 928
Nº 194
Nº 795
Nº 393
Nº 895
Nº 312
Nº 1020
Nº 913
Nº 38
Nº 1062
Nº 119
Nº 160
Nº 467
Nº 204
SCALE
2
3
4 FEET

MACFARLANE'S CASTINGS — RAILING

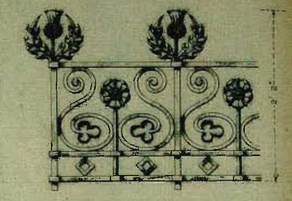
Nº 1080



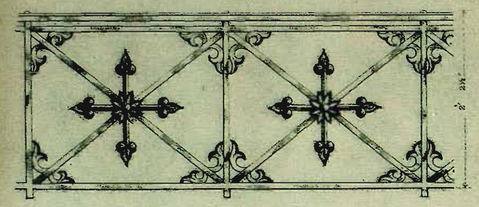
Nº 94



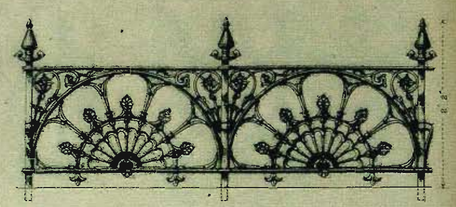
Nº 51



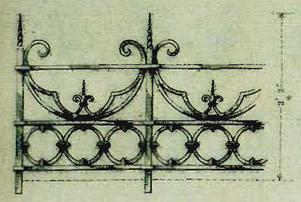
Nº 209



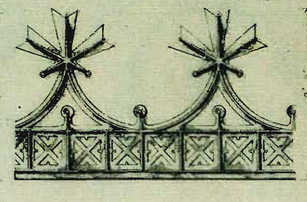
Nº 898



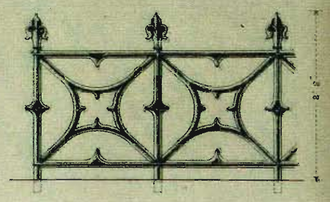
Nº 100



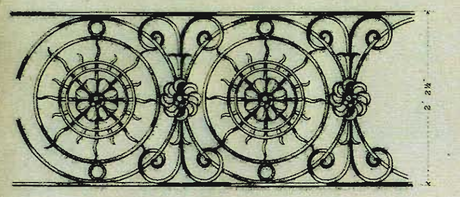
Nº 35



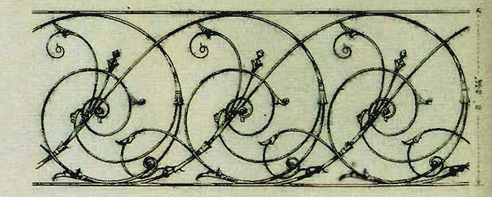
Nº 839



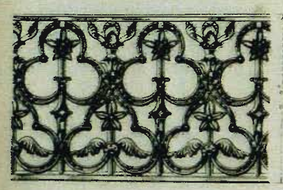
Nº 1072



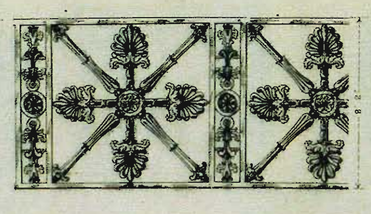
Nº 948



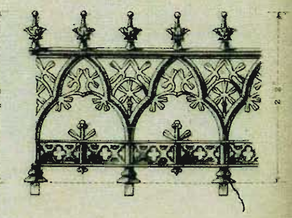
Nº 117



Nº 24



Nº 44

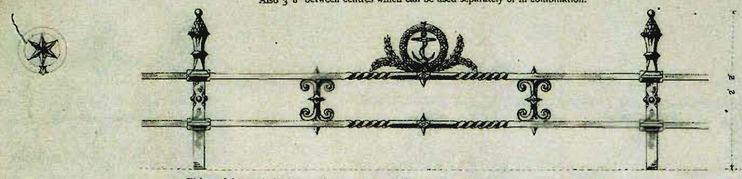


SCALE

MACFARLANE'S CASTINGS — RAILING

Nº 807—6' 2" BETWEEN CENTRES

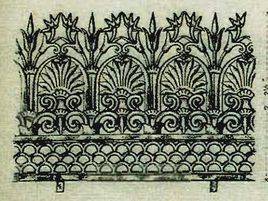
Also 5' 8" between centres which can be used separately or in combination.



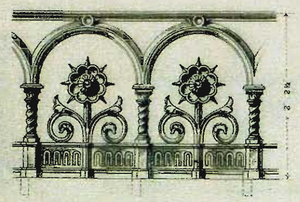
Either of the symbols, Star or Cross, can be substituted for Anchor shown in wreath. Other devices *to order*.

Standard can also be supplied with Spike for driving into ground, see page 334.

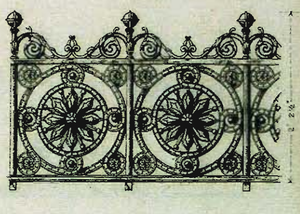
Nº 57



Nº 908

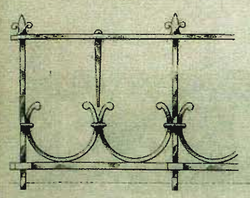


Nº 53

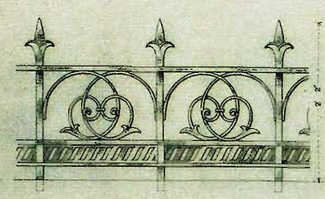


1 AND 2 FACES

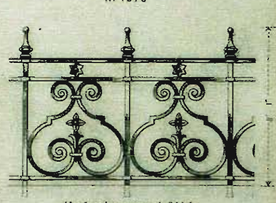
Nº 64



Nº 415



Nº 1076

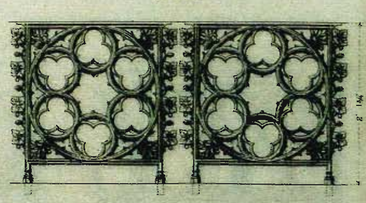


Also heavier pattern 2' 2" high.

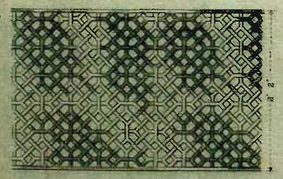
Nº 1017



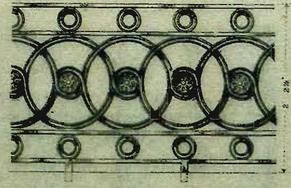
Nº 1034



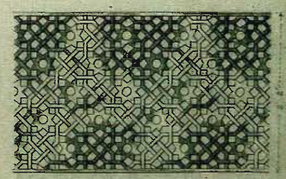
Nº 1118



Nº 242

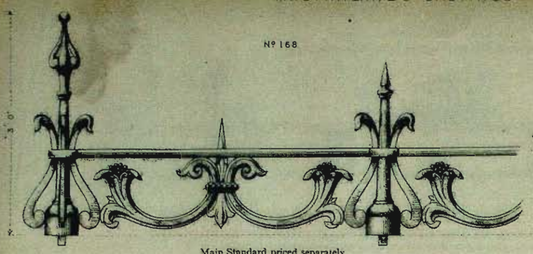


Nº 1117

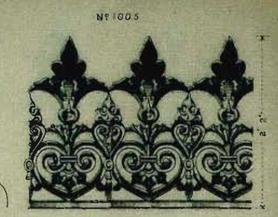


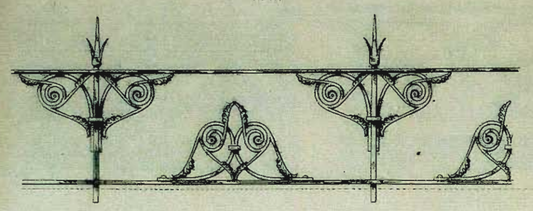
SCALE

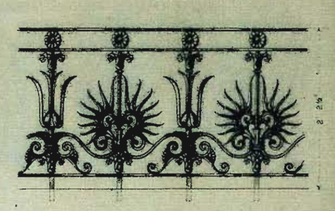
MACFARLANE'S CASTINGS — RAILING

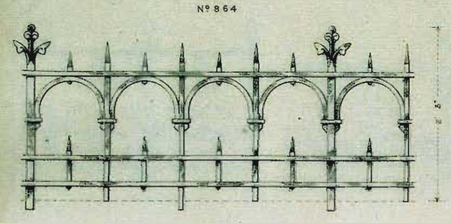


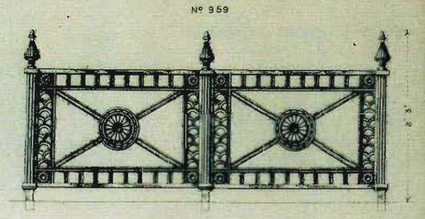
Main Standard priced separately.

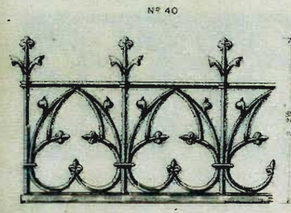


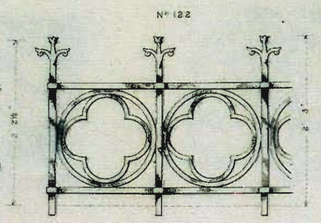


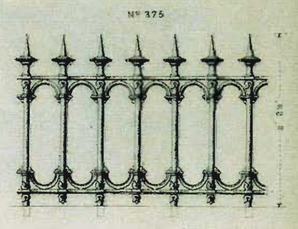


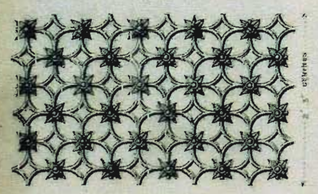




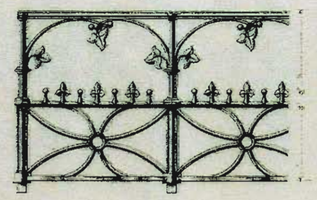


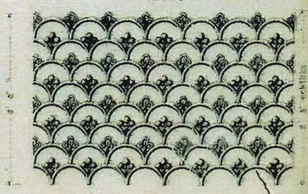




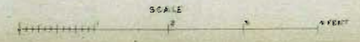


Any size *to order*.

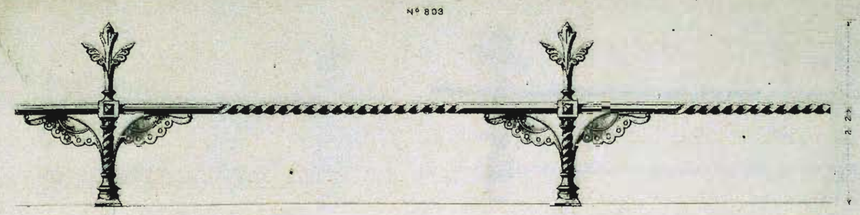


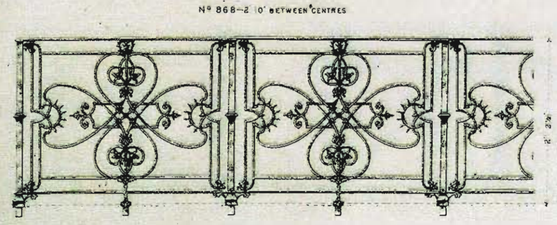


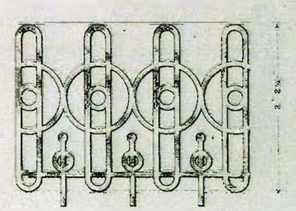
Any size *to order*.



MACFARLANE'S CASTINGS — RAILING

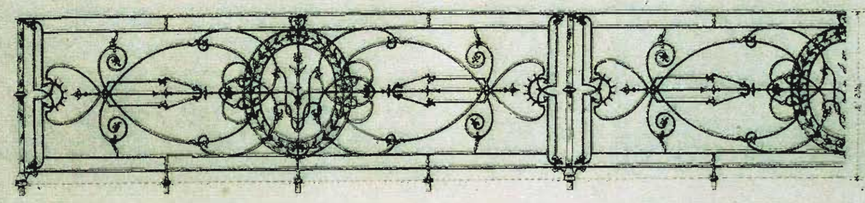


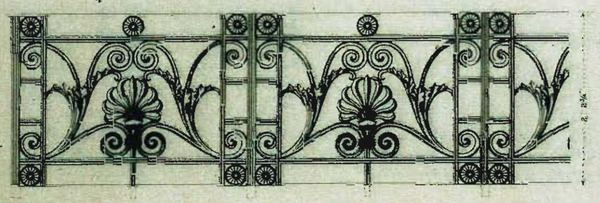


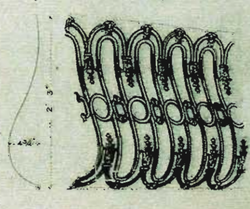


Nº 868–7 4" BETWEEN CENTRES

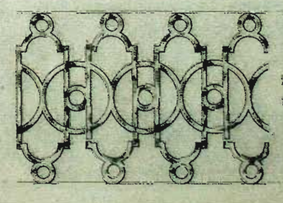
Can also be used in combination with pattern shown above, 2' 10" between centres.

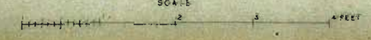


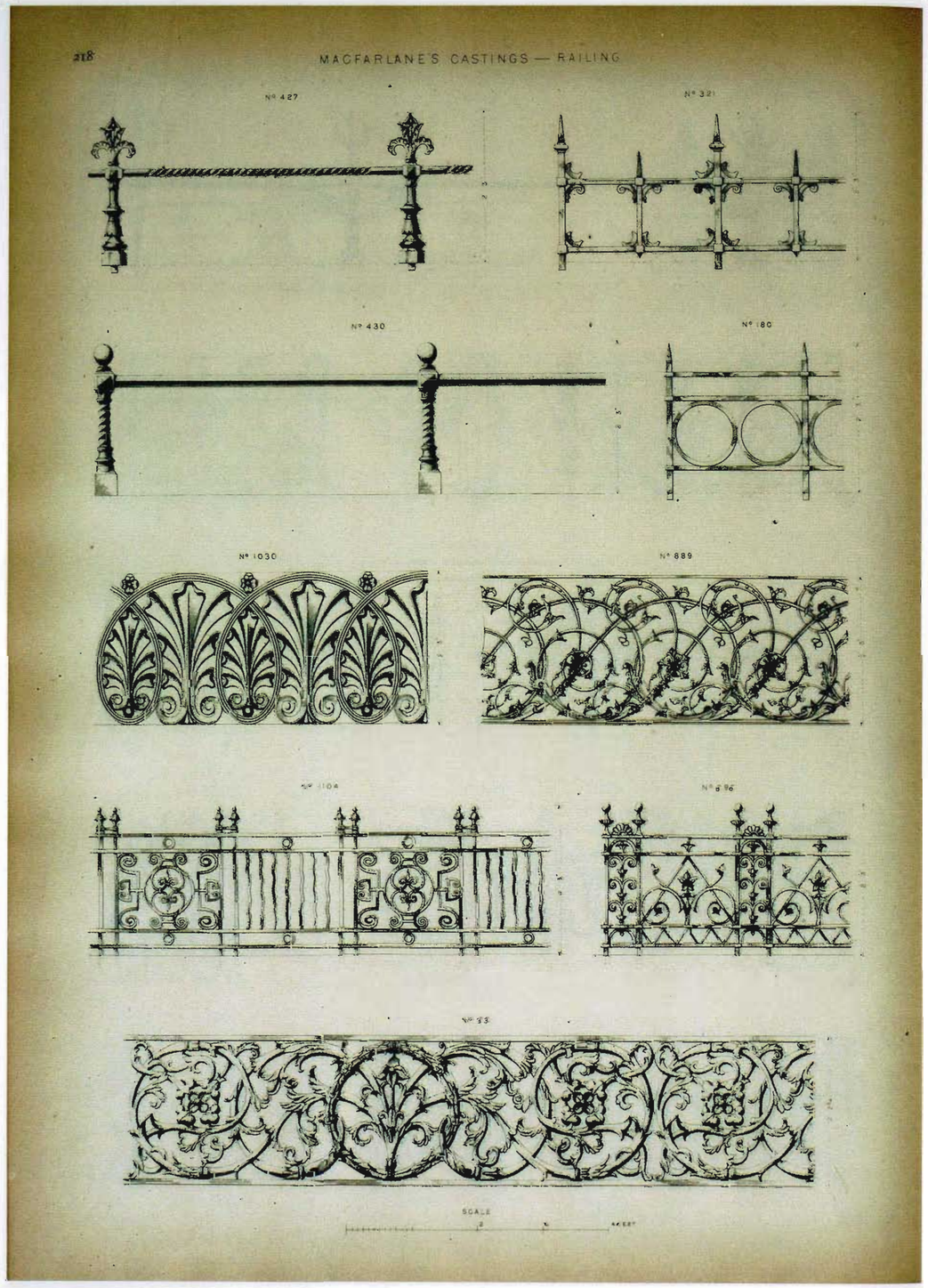


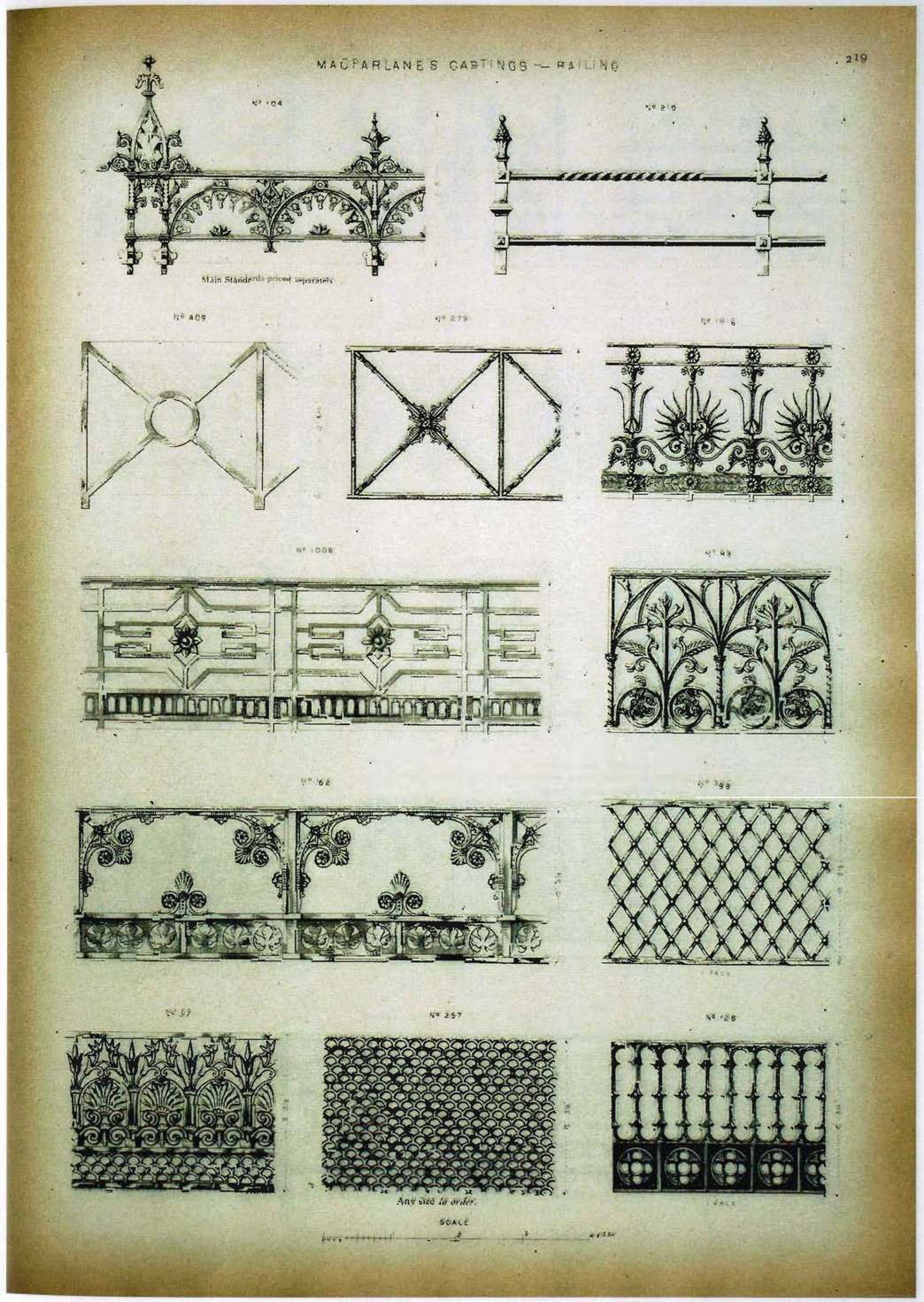


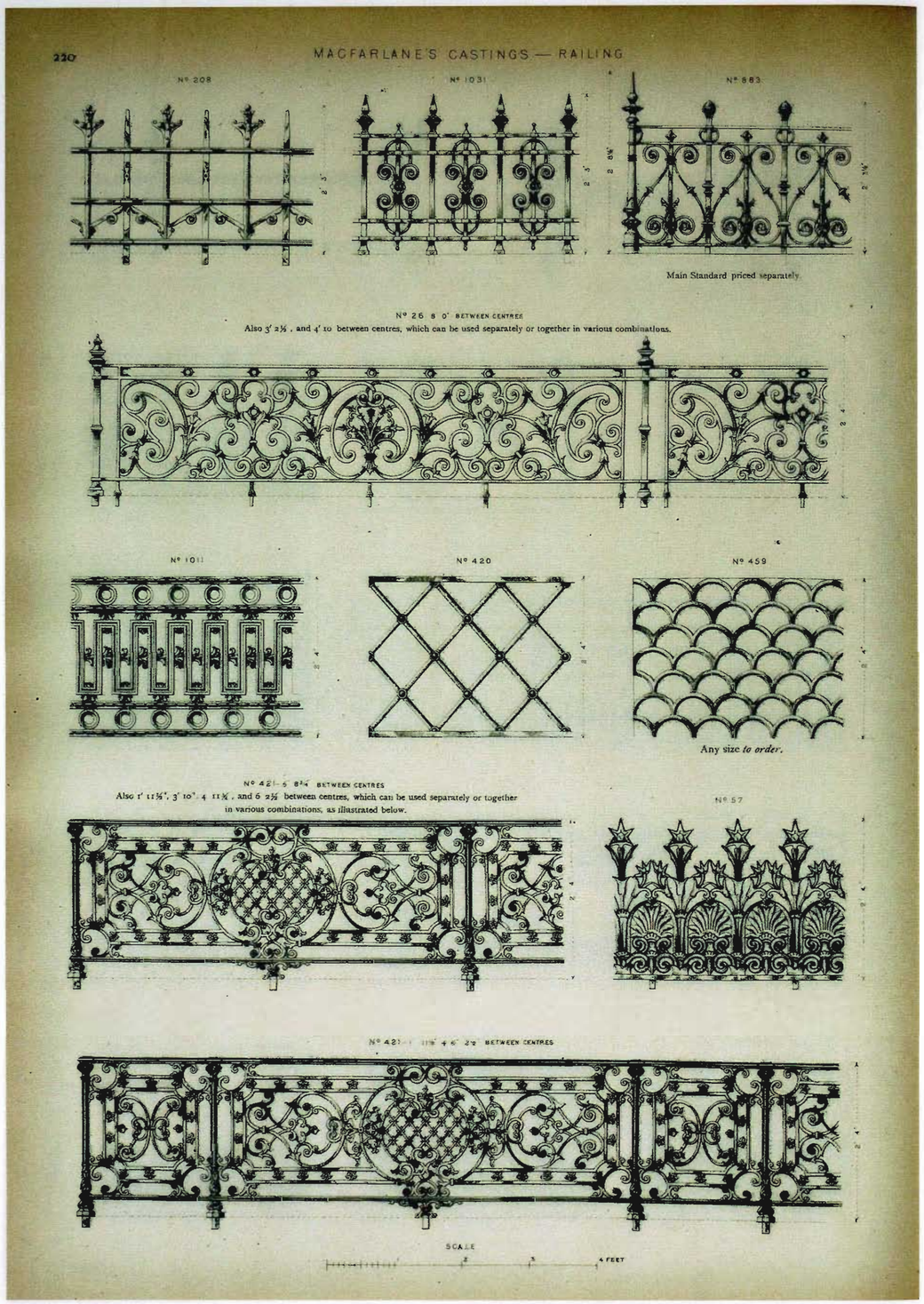


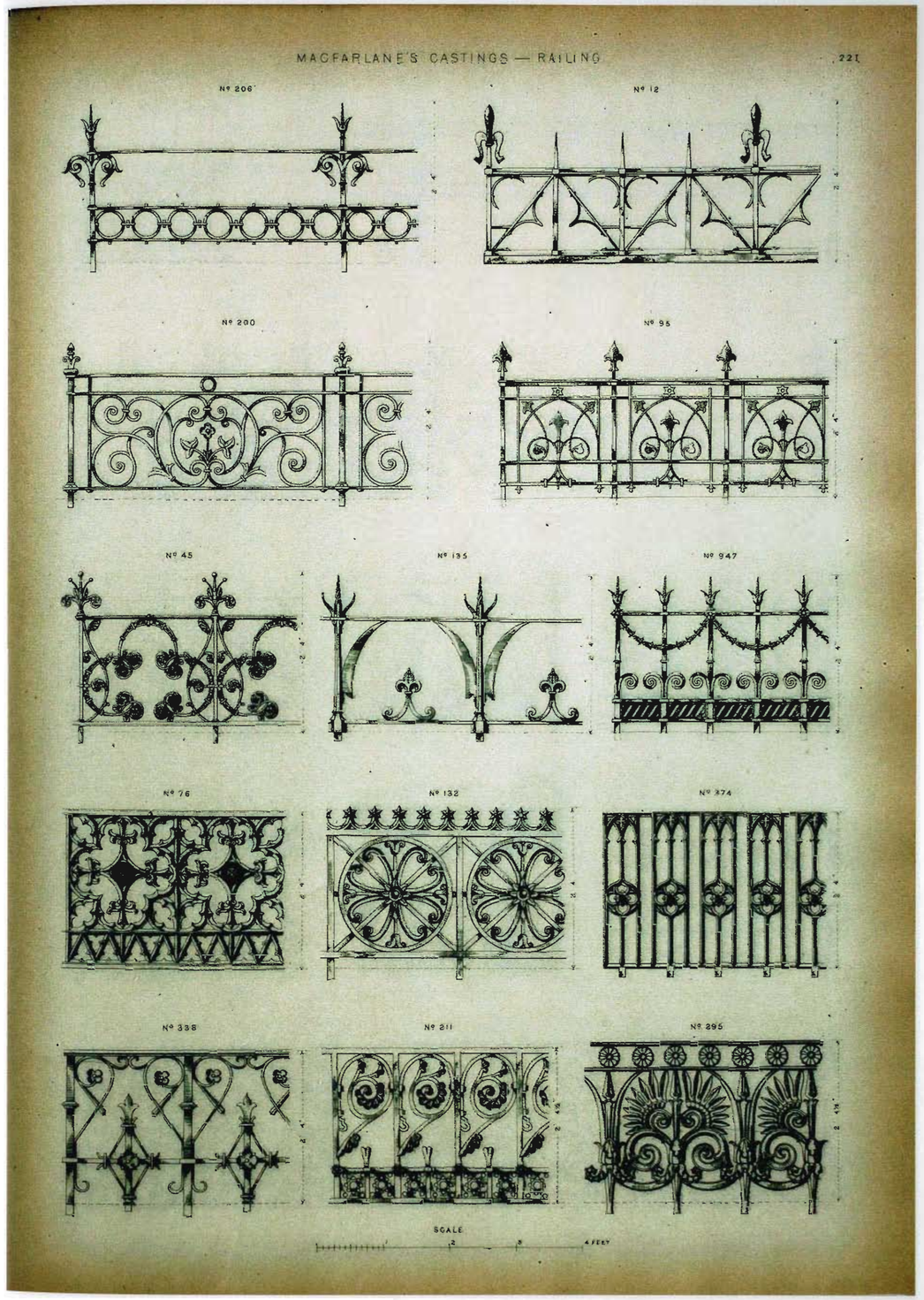


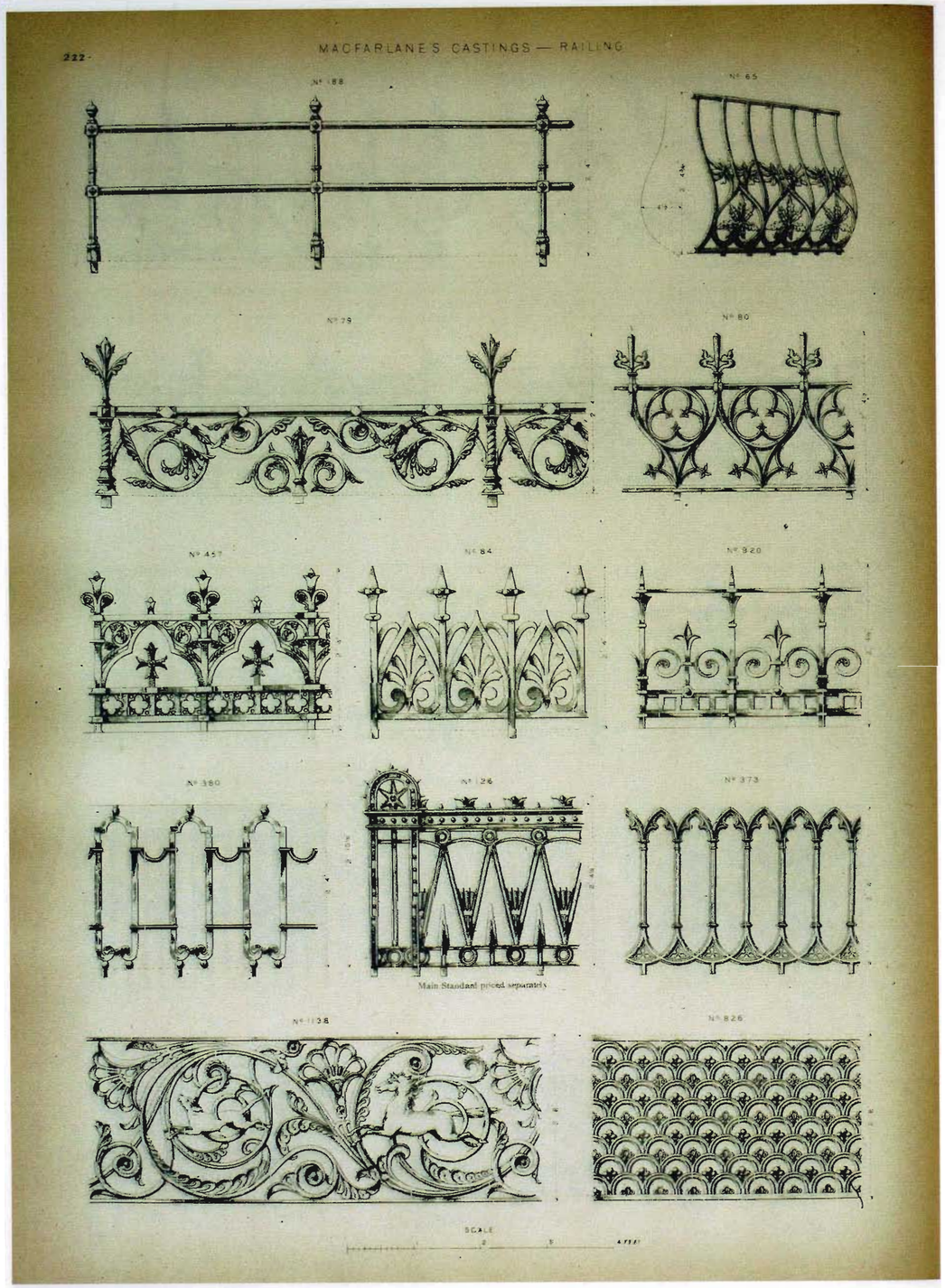


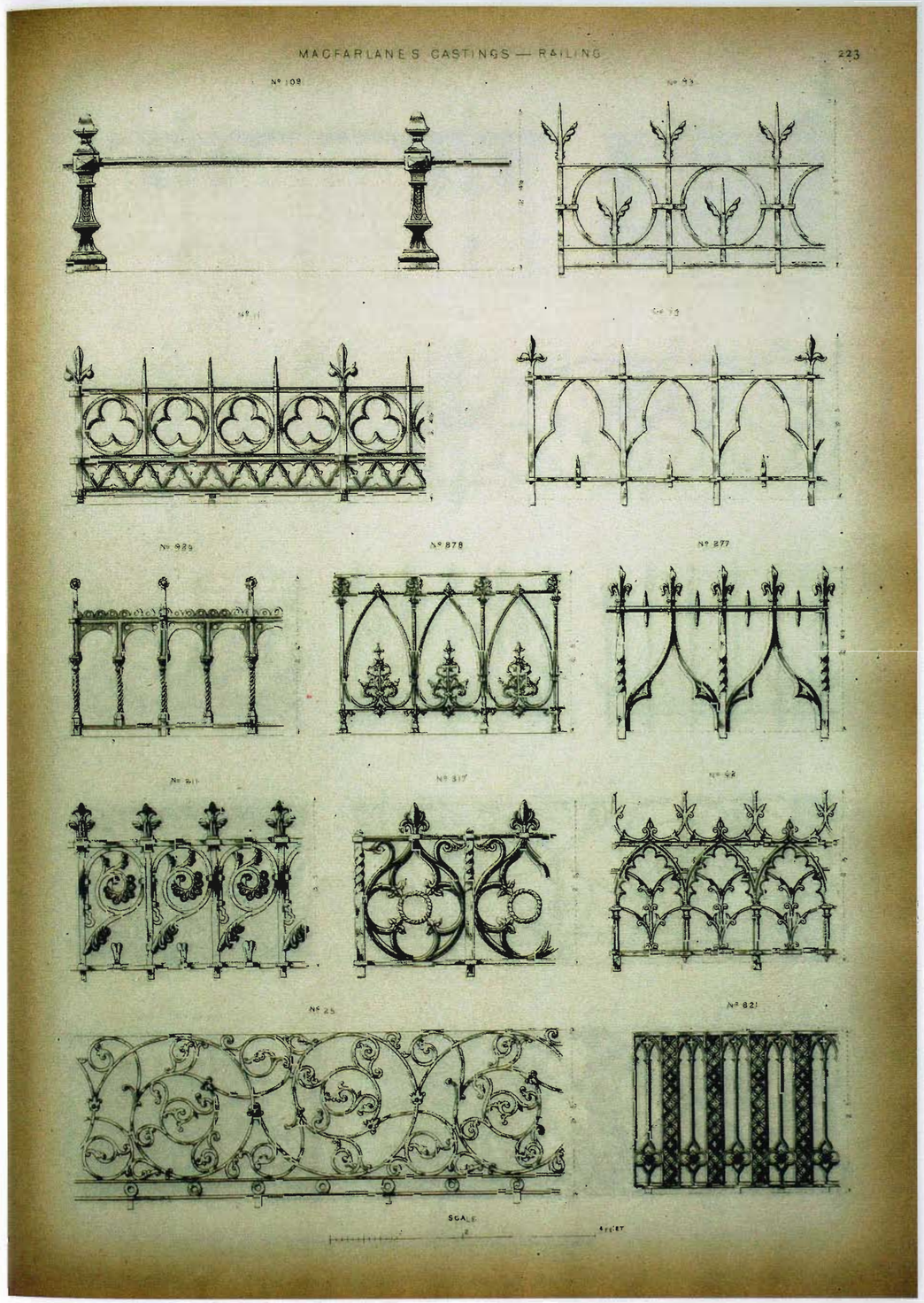

218
MACFARLANE'S CASTINGS — RAILING
No 427
No 321
No 430
No 180
No 1030
No 889
No 104
No d 96
No 33
SCALE


MACFARLANE'S CASTINGS — RAILING
219
No 104
No 210
Main Standards priced separately
No 409
No 279
No 1008
No 162
No 398
No 57
No 257
No 128
Any size to order.
SCALE

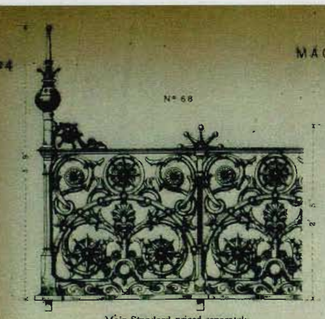

220
MACFARLANE'S CASTINGS — RAILING
Nº 208
Nº 1031
Nº 883
Main Standard priced separately
Nº 26 6 0" BETWEEN CENTRES
Also 3' 2½", and 4' 10" between centres, which can be used separately or together in various combinations.
Nº 1011
Nº 420
Nº 459
Any size to order.
Nº 421 5 8¾" BETWEEN CENTRES
Also 1' 11½", 3' 10" 4 11¾", and 6 2½" between centres, which can be used separately or together in various combinations, as illustrated below.
Nº 57
Nº 421 1 11¾ 4 6" 2 2 BETWEEN CENTRES
SCALE
1 2 3 4 FEET

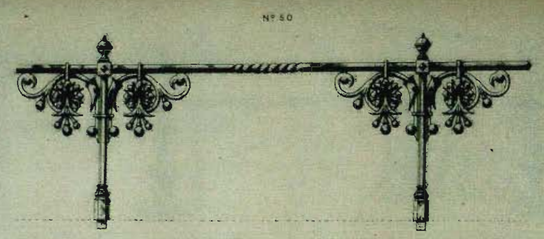

MACFARLANE'S CASTINGS — RAILING
221
Nº 206
Nº 12
Nº 200
Nº 95
Nº 45
Nº 135
Nº 947
Nº 76
Nº 132
Nº 374
Nº 338
Nº 211
Nº 295
SCALE
1 2 3 4 FEET


222
MACFARLANE'S CASTINGS — RAILING
Nº 188
Nº 65
Nº 79
Nº 80
Nº 457
Nº 84
Nº 320
Nº 380
Nº 126
Nº 373
Main Standard priced separately
Nº 1138
Nº 826
SCALE

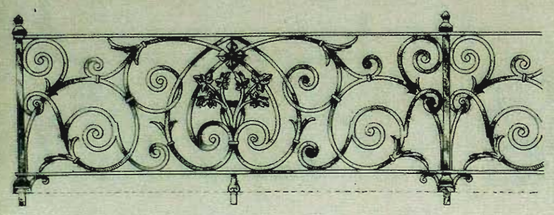

MACFARLANE'S CASTINGS — RAILING
223
Nº 109
Nº 93
Nº 929
Nº 878
Nº 277
Nº 317
Nº 42
Nº 25
Nº 821
SCALE

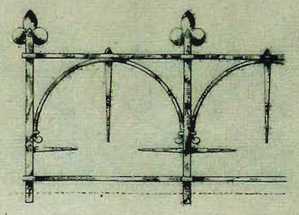
MACFARLANE'S CASTINGS — RAILING

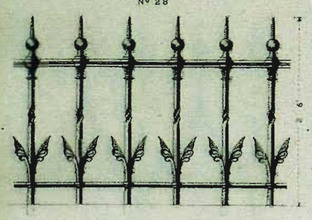


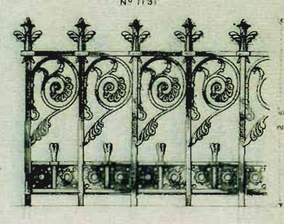


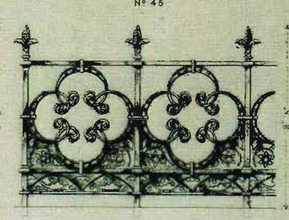
Main Standard priced separately

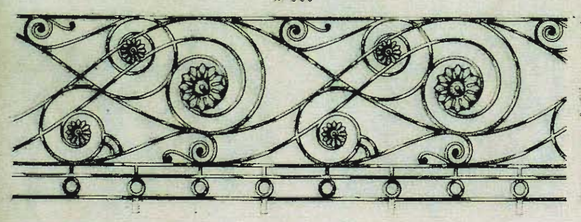




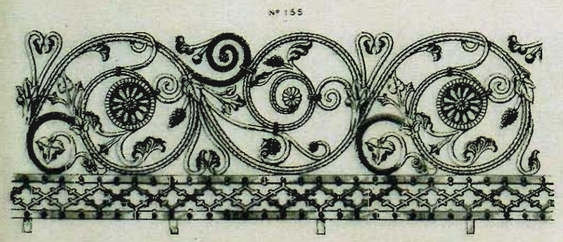


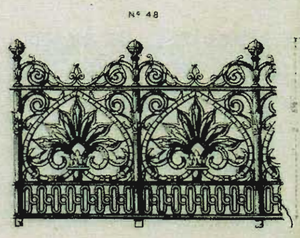






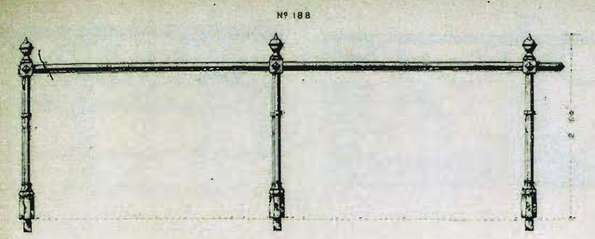


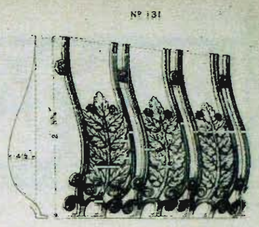


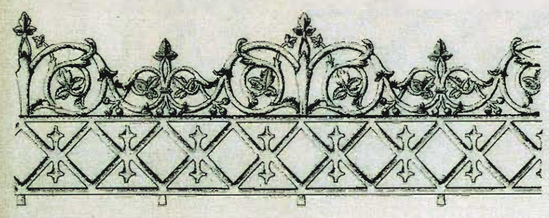


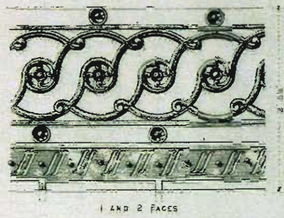
SCALE 2 3 4 FEET

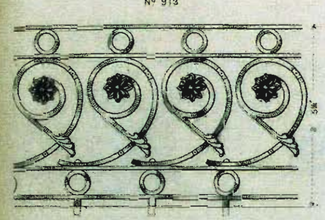
MACFARLANE'S CASTINGS — RAILING

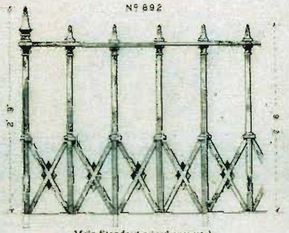


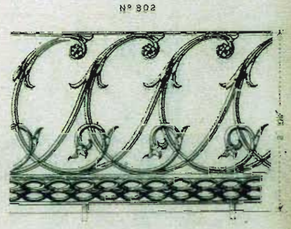




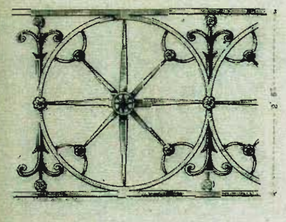


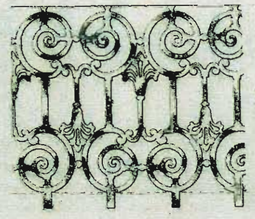


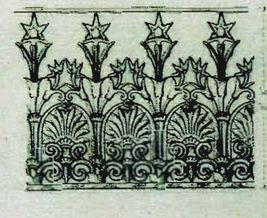




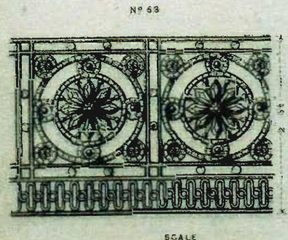
Main Standard priced separately

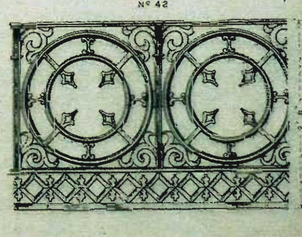






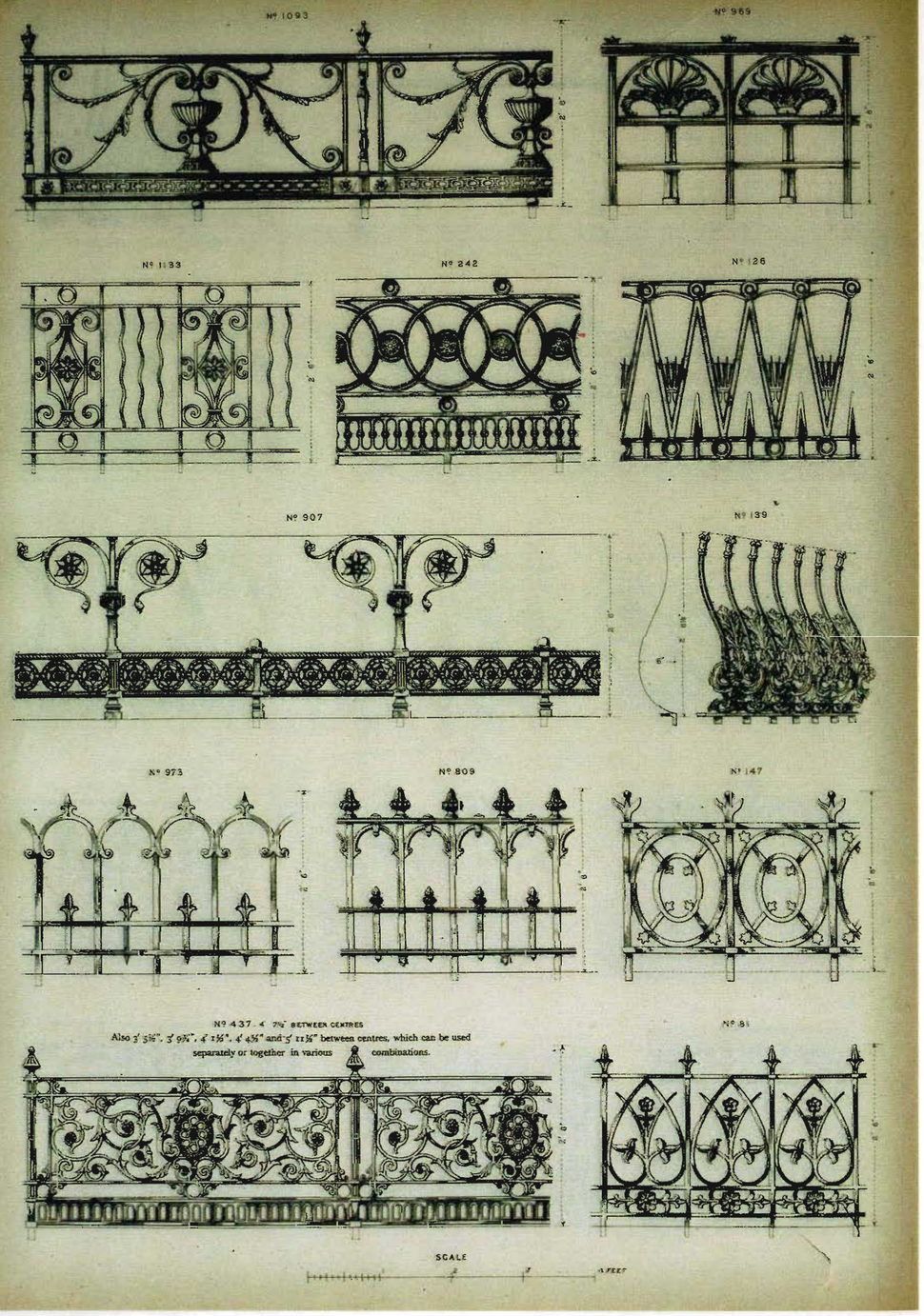




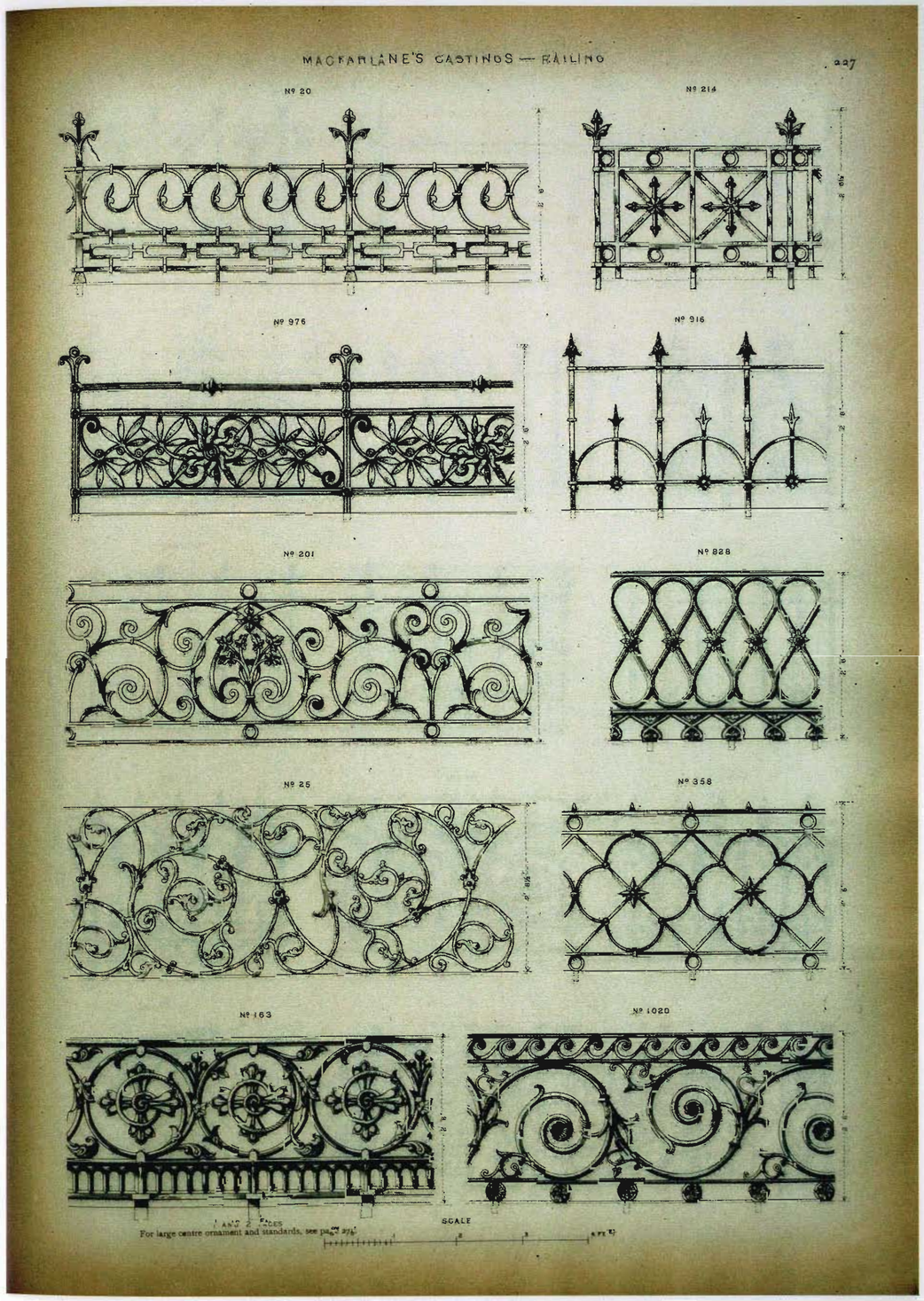


SCALE 2 3 4 FEET

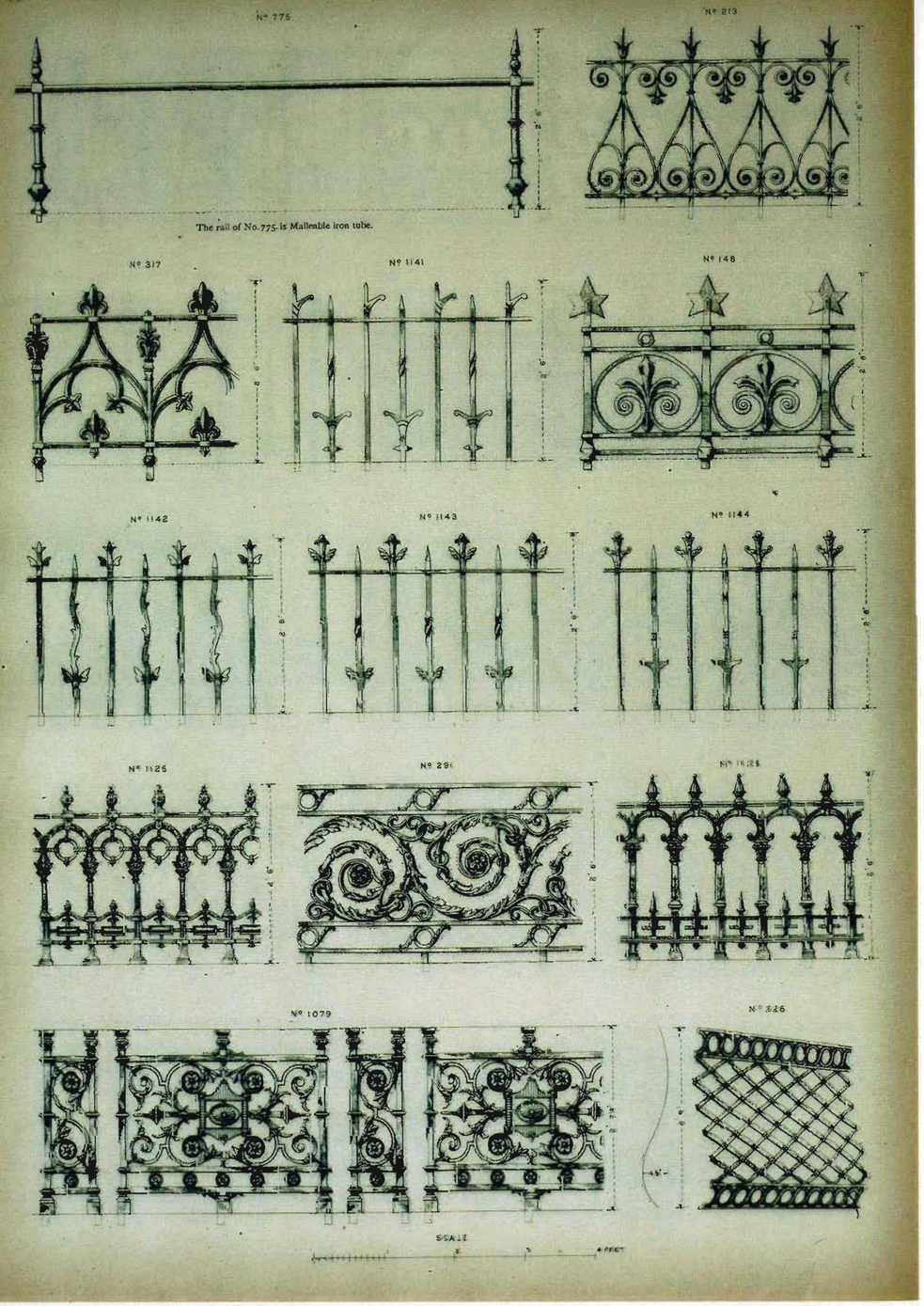
MACFARLANE'S CASTINGS — RAILING



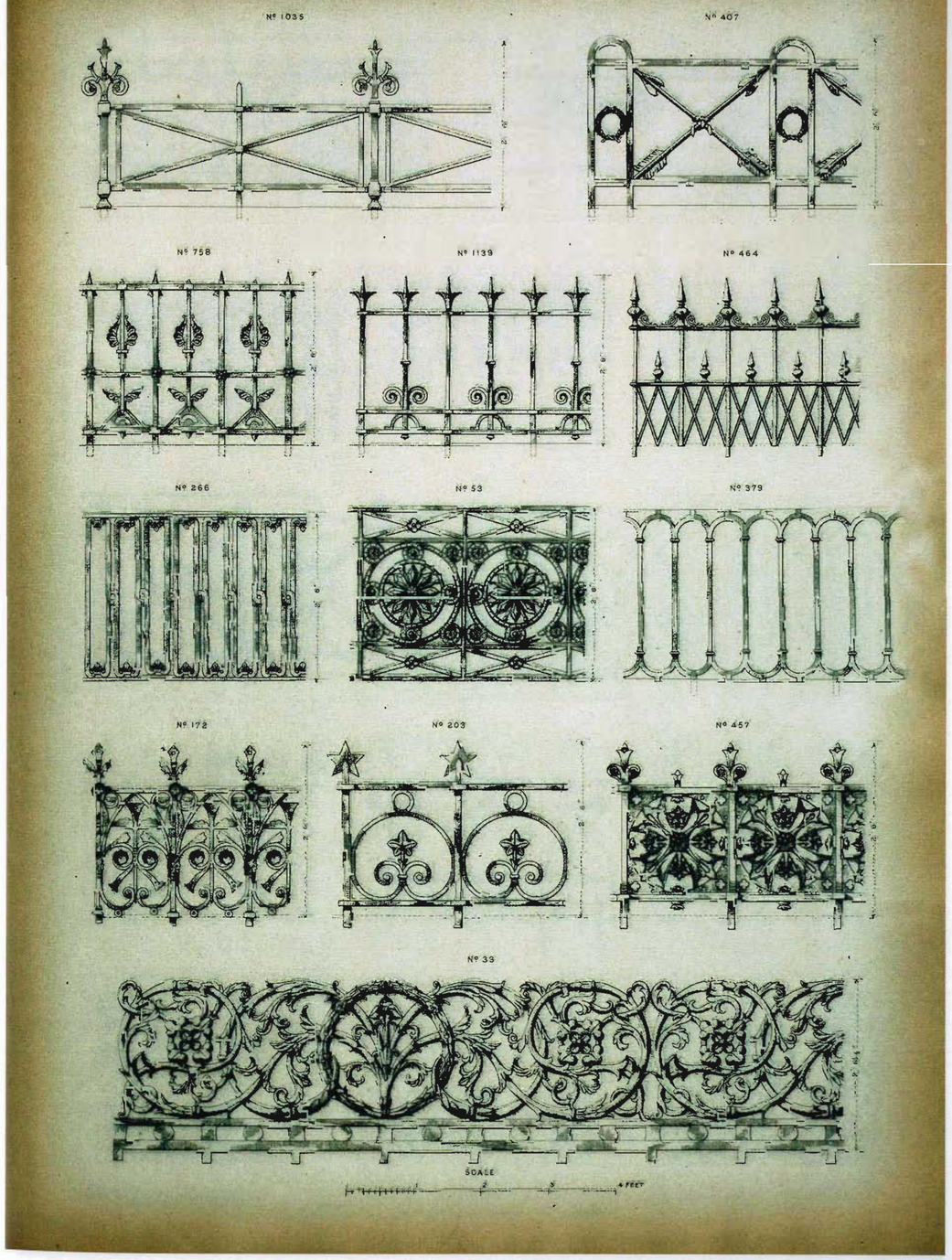
MACFARLANE'S CASTINGS — RAILING



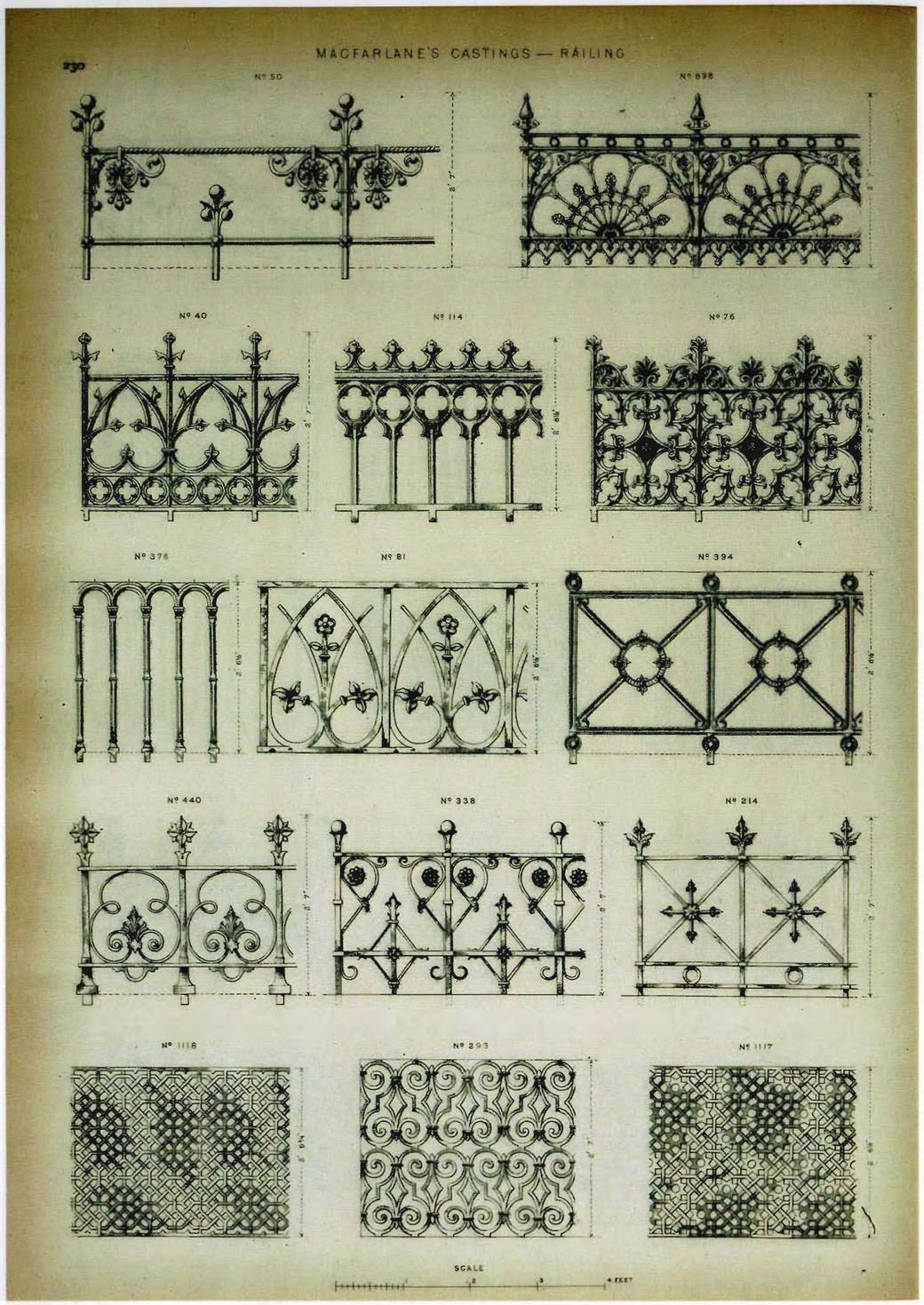
MACFARLANE'S CASTINGS — RAILING



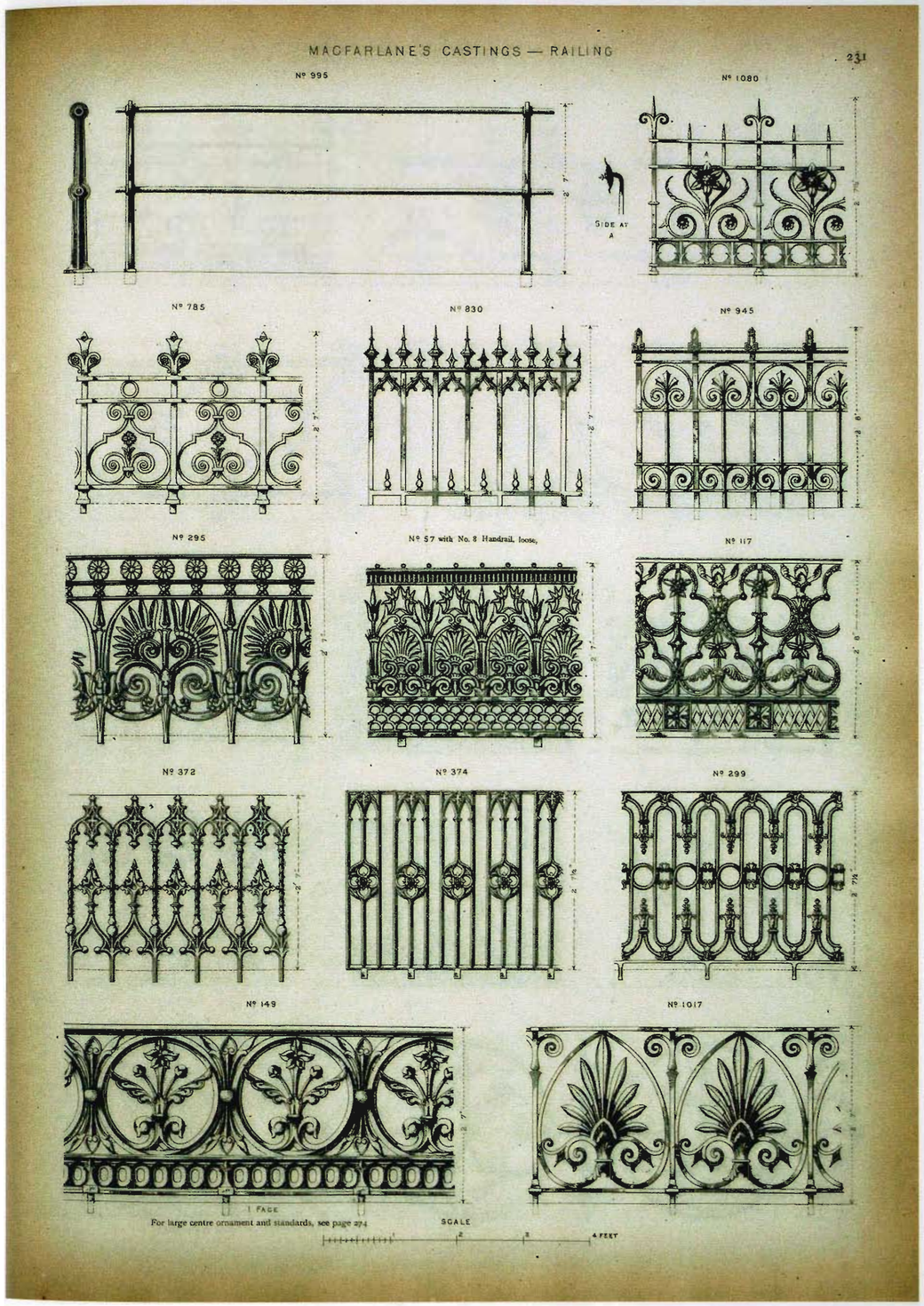
MACFARLANE'S CASTINGS — RAILING



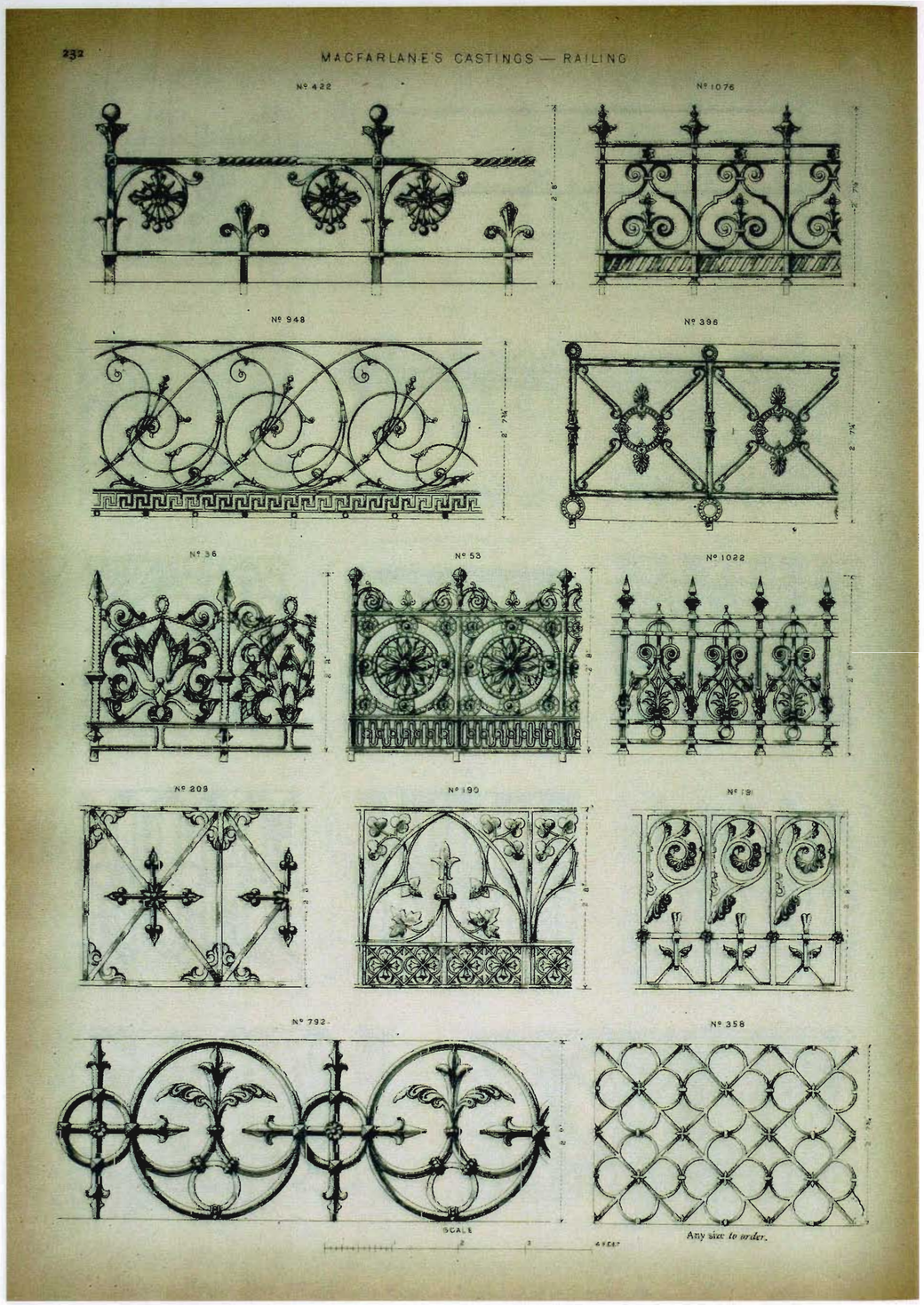
MACFARLANE'S CASTINGS — RAILING

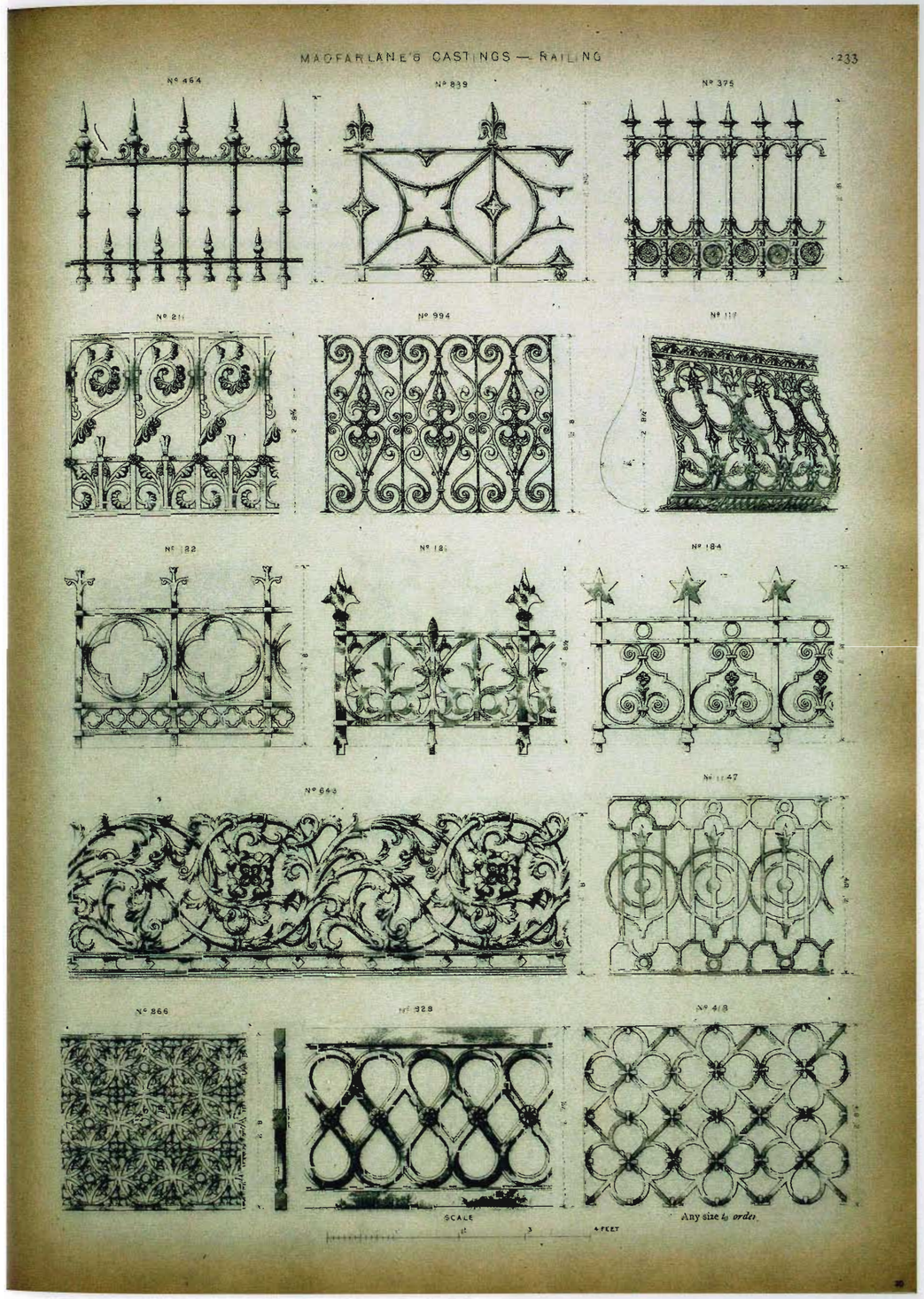


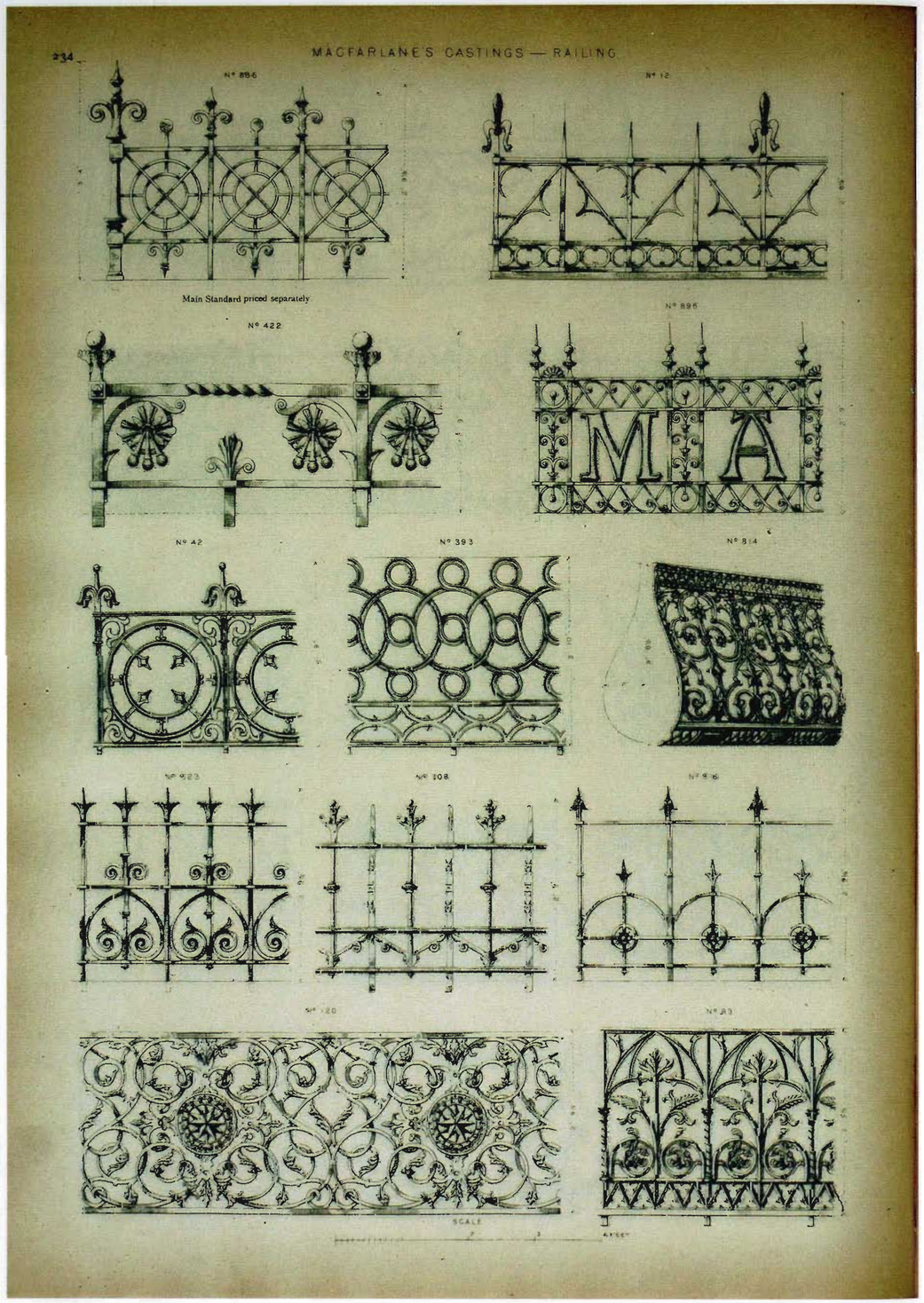
MACFARLANE'S CASTINGS — RAILING

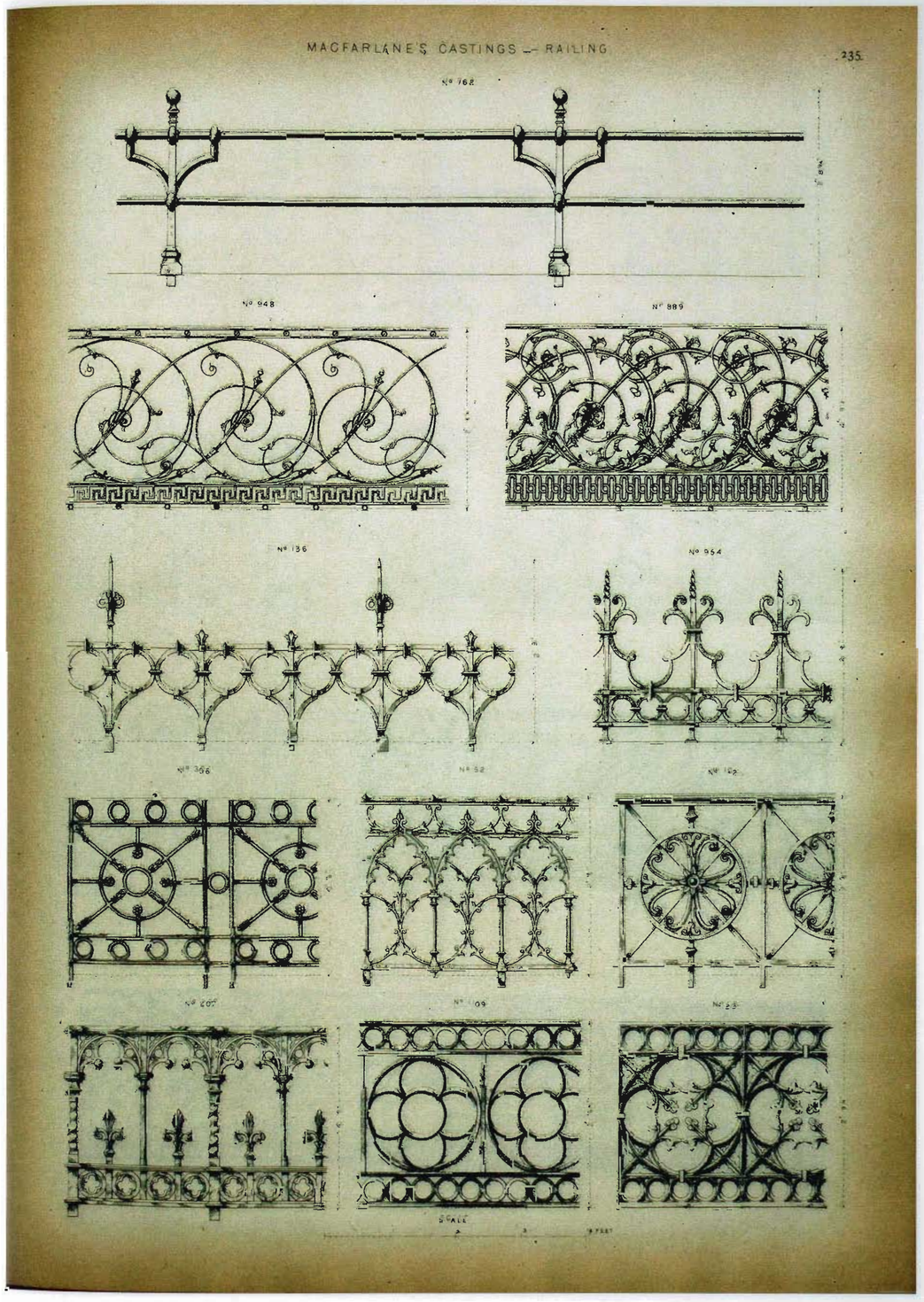


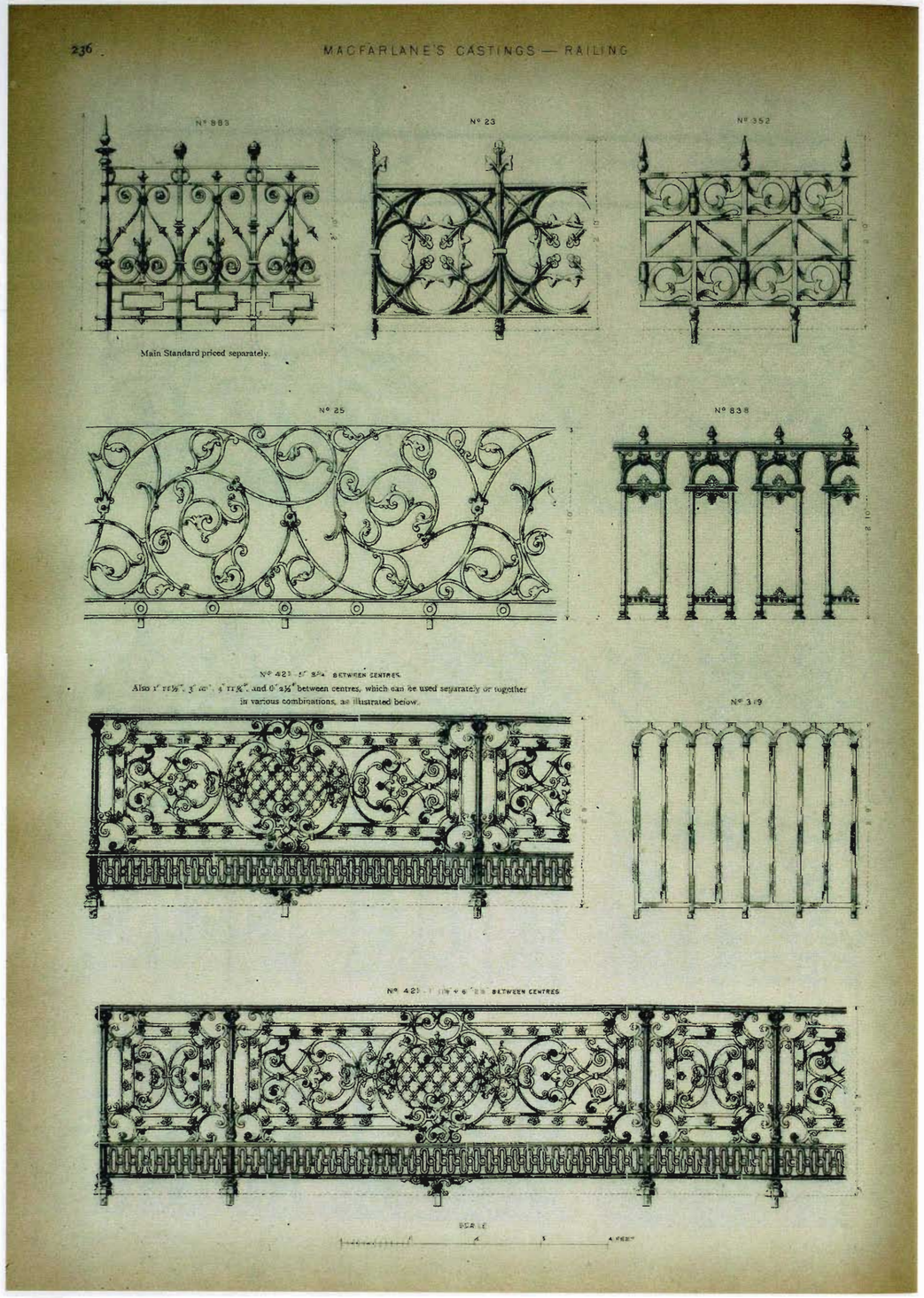
For large centre ornament and standards, see page 274

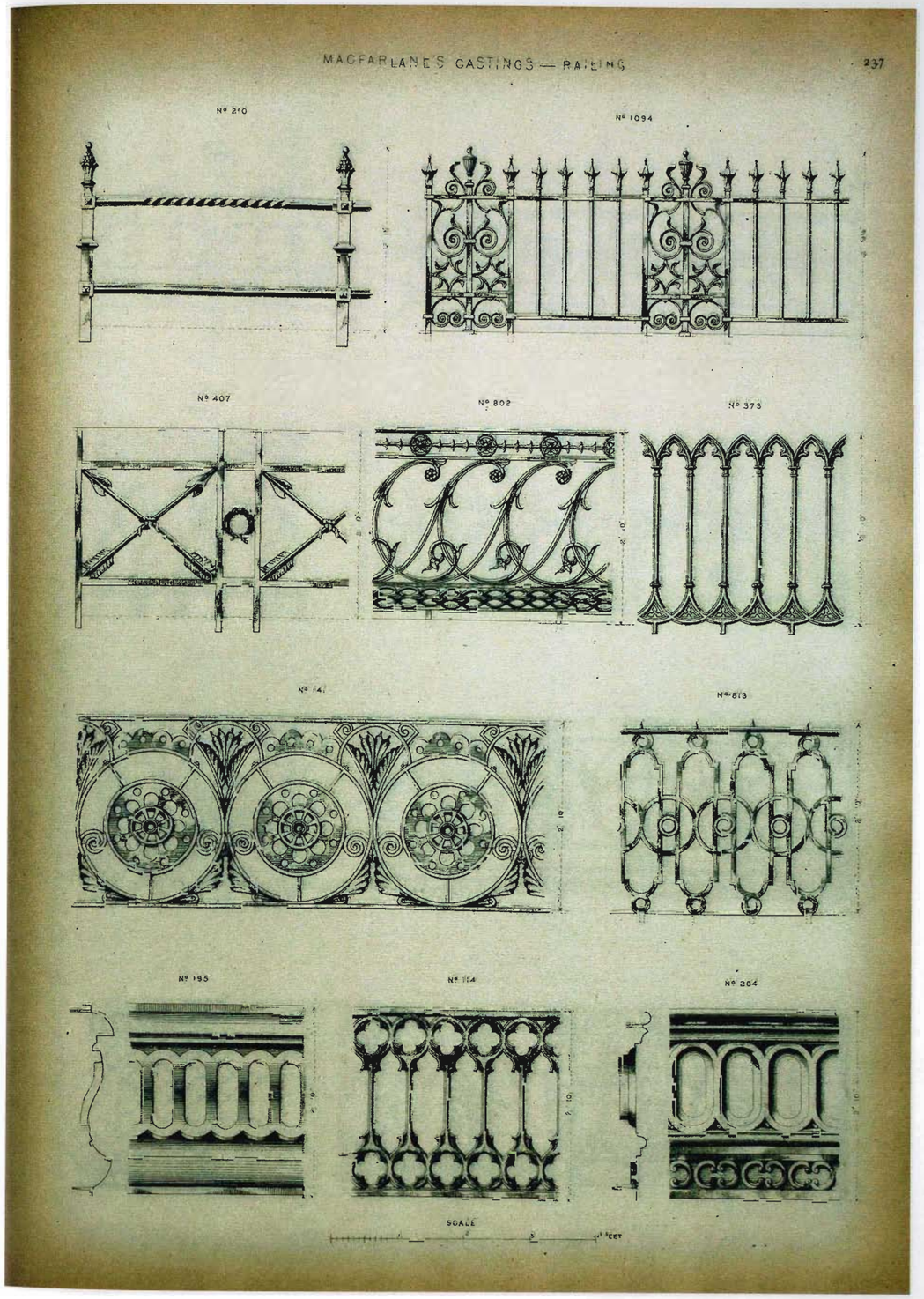

232
MACFARLANE'S CASTINGS — RAILING
Nº 422
Nº 1076
Nº 948
Nº 396
Nº 36
Nº 53
Nº 1022
Nº 209
Nº 190
Nº 191
Nº 792
Nº 358
SCALE
4 FEET
Any size to order.

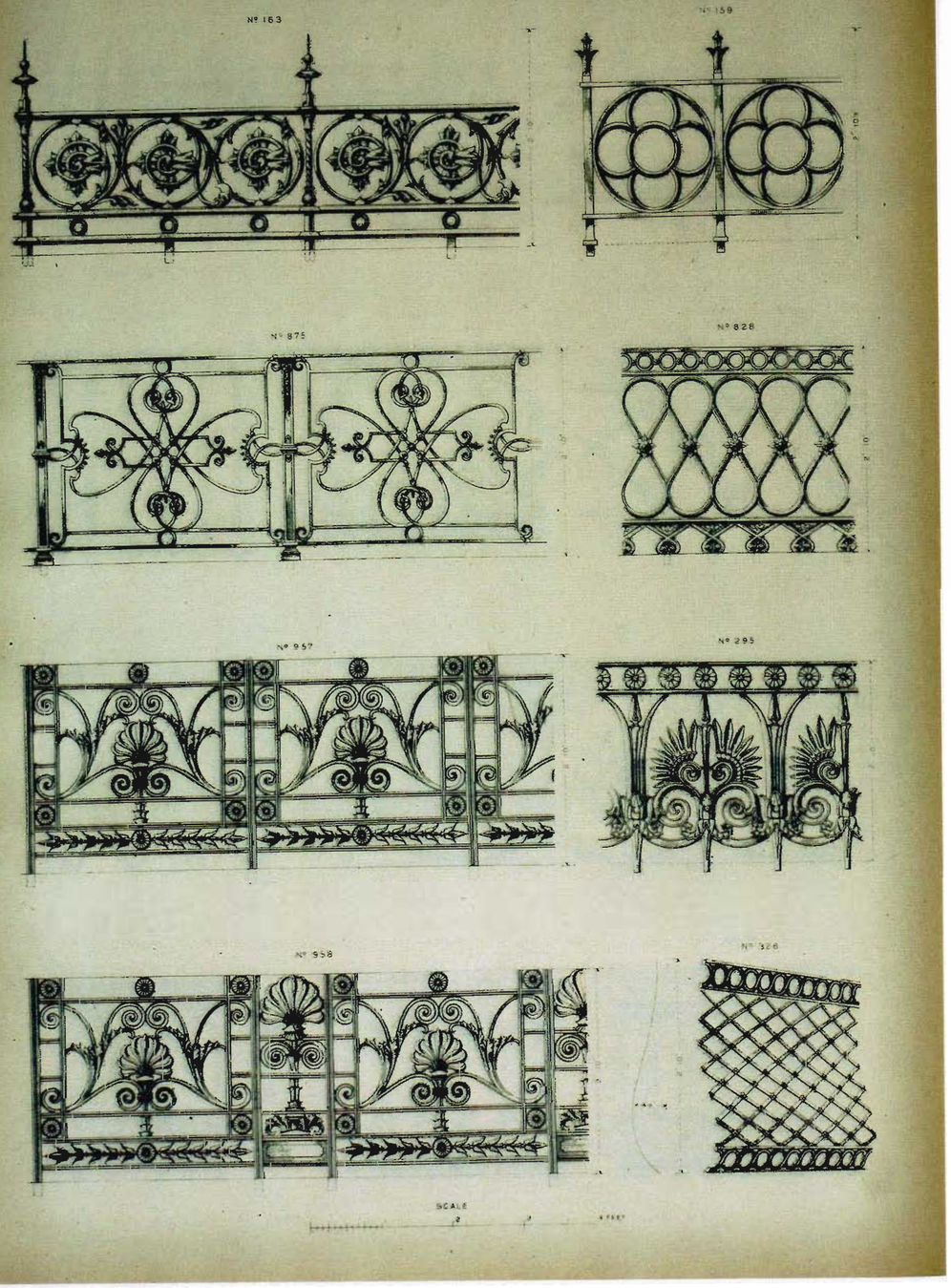

MACFARLANE'S CASTINGS — RAILING
233
Nº 464
Nº 839
Nº 375
Nº 211
Nº 994
Nº 117
Nº 122
Nº 183
Nº 184
Nº 1147
Nº 848
Nº 866
Nº 328
Nº 418
SCALE
4 FEET
Any size to order.

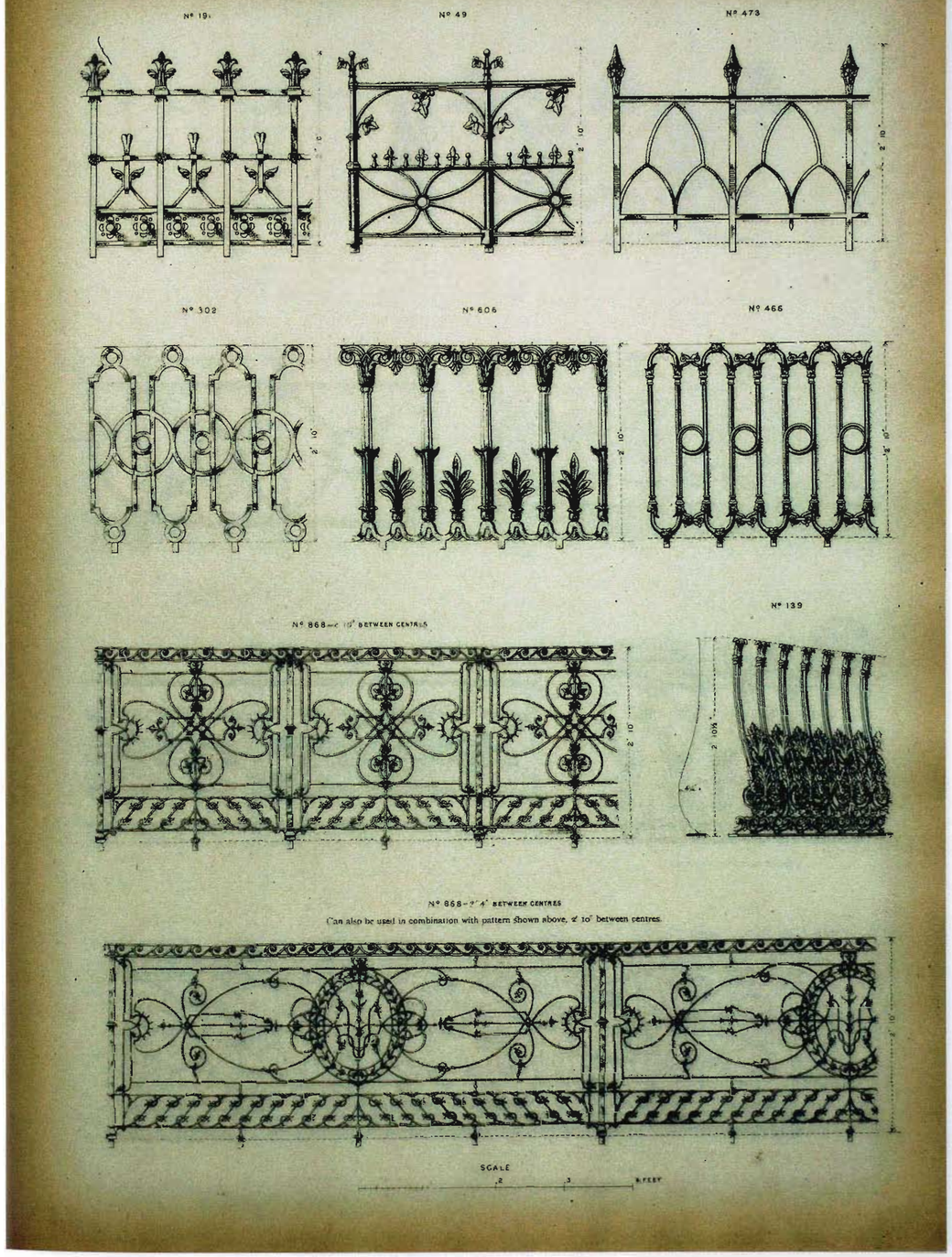

234
MACFARLANE'S CASTINGS — RAILING
Nº 886
Nº 12
Main Standard priced separately
Nº 422
Nº 886
Nº 42
Nº 393
Nº 814
Nº 623
Nº 108
Nº 816
Nº 120
Nº 83
SCALE


MACFARLANE'S CASTINGS — RAILING
235
Nº 768
Nº 948
Nº 889
Nº 136
Nº 954
Nº 366
Nº 52
Nº 109
SCALE

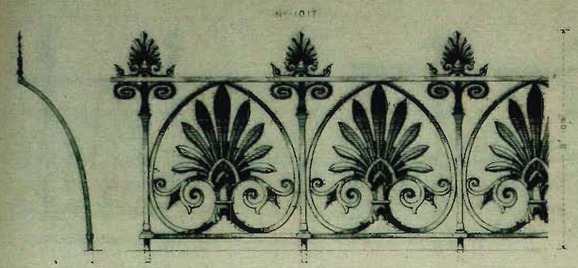

236
MACFARLANE'S CASTINGS — RAILING
Nº 883
Nº 23
Nº 352
Main Standard priced separately.
Nº 25
Nº 838
Nº 423 - 5' 3¾" BETWEEN CENTRES.
Also 1' 11½", 3' 0", 4' 11½", and 6' 2½" between centres, which can be used separately or together in various combinations, as illustrated below.
Nº 319
Nº 423 - 1' 11½ + 6' 2½ BETWEEN CENTRES
SCALE
4 FEET

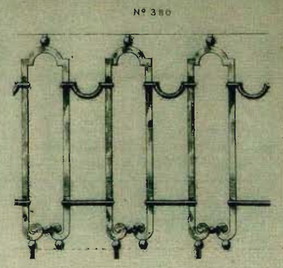

MACFARLANE'S CASTINGS — RAILING
237
Nº 210
Nº 1094
Nº 407
Nº 802
Nº 373
Nº 141
Nº 813
Nº 193
Nº 174
Nº 204
SCALE
FEET

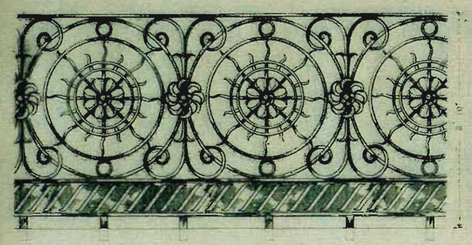

Nº 153
Nº 159
Nº 875
Nº 828
Nº 957
Nº 295
Nº 958
Nº 326
SCALE
2
4 FEET

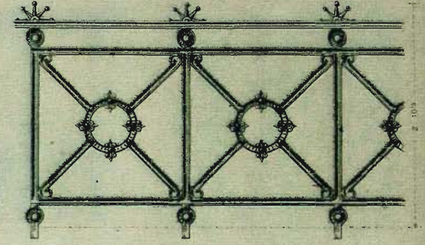

Nº 19
Nº 49
Nº 473
Nº 302
Nº 606
Nº 466
Nº 868 – 2' 10" BETWEEN CENTRES
Nº 139
Nº 868 – 2' 4" BETWEEN CENTRES
Can also be used in combination with pattern shown above, @ 10" between centres.
SCALE
2
3
4 FEET

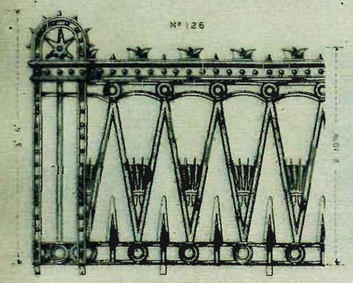
MACFARLANE'S CASTINGS — RAILING

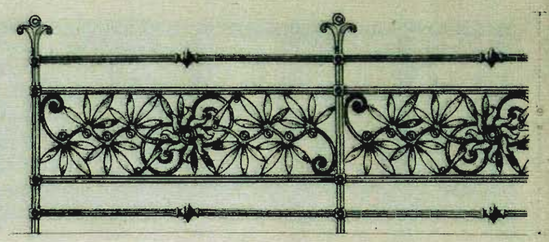




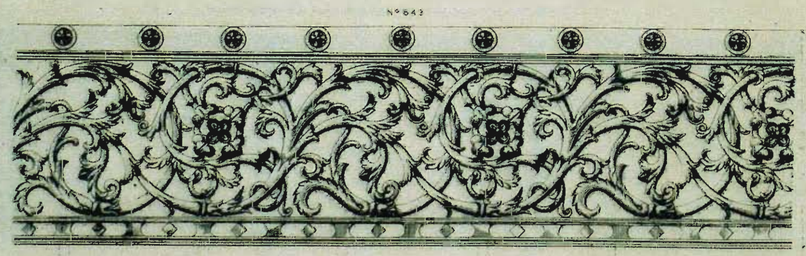




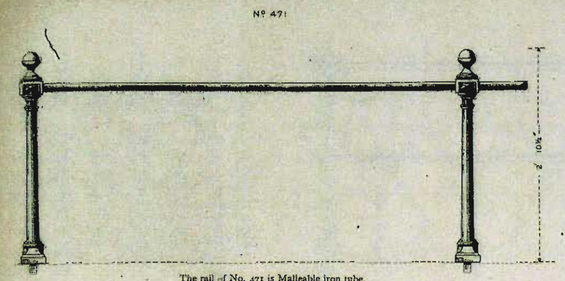




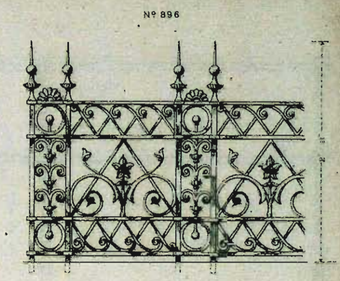
Main Standard priced separately.

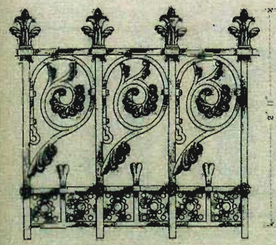


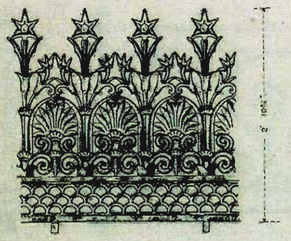
MACFARLANE'S CASTINGS — RAILING

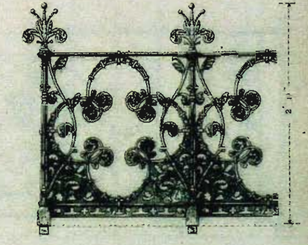


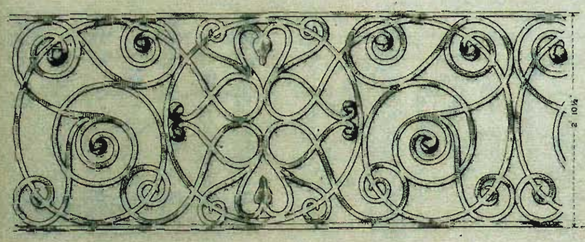
The rail of No. 471 is Malleable iron tube.

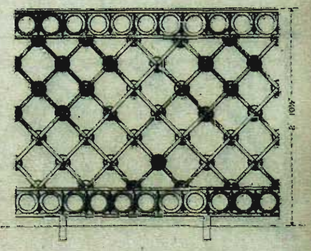


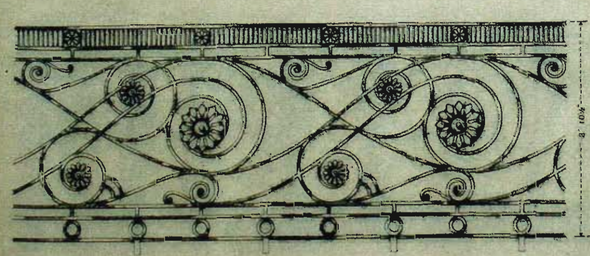


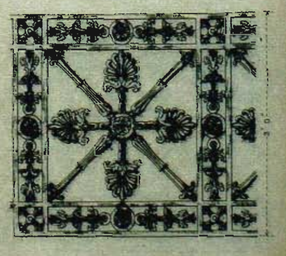




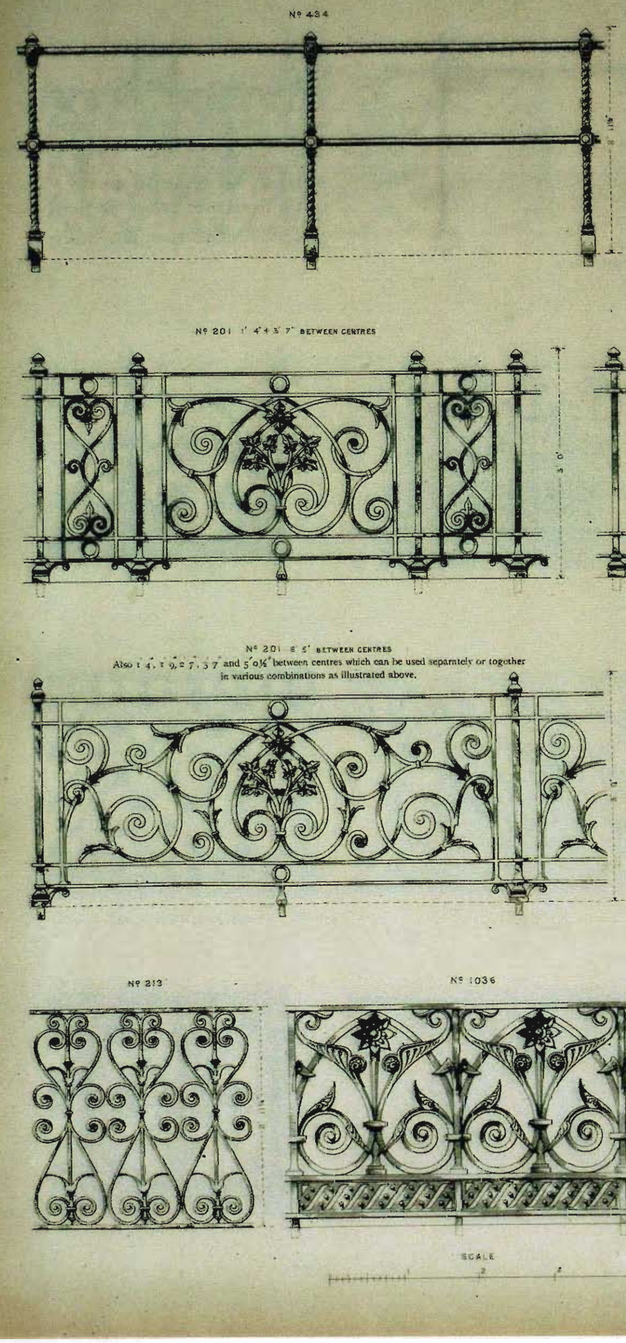




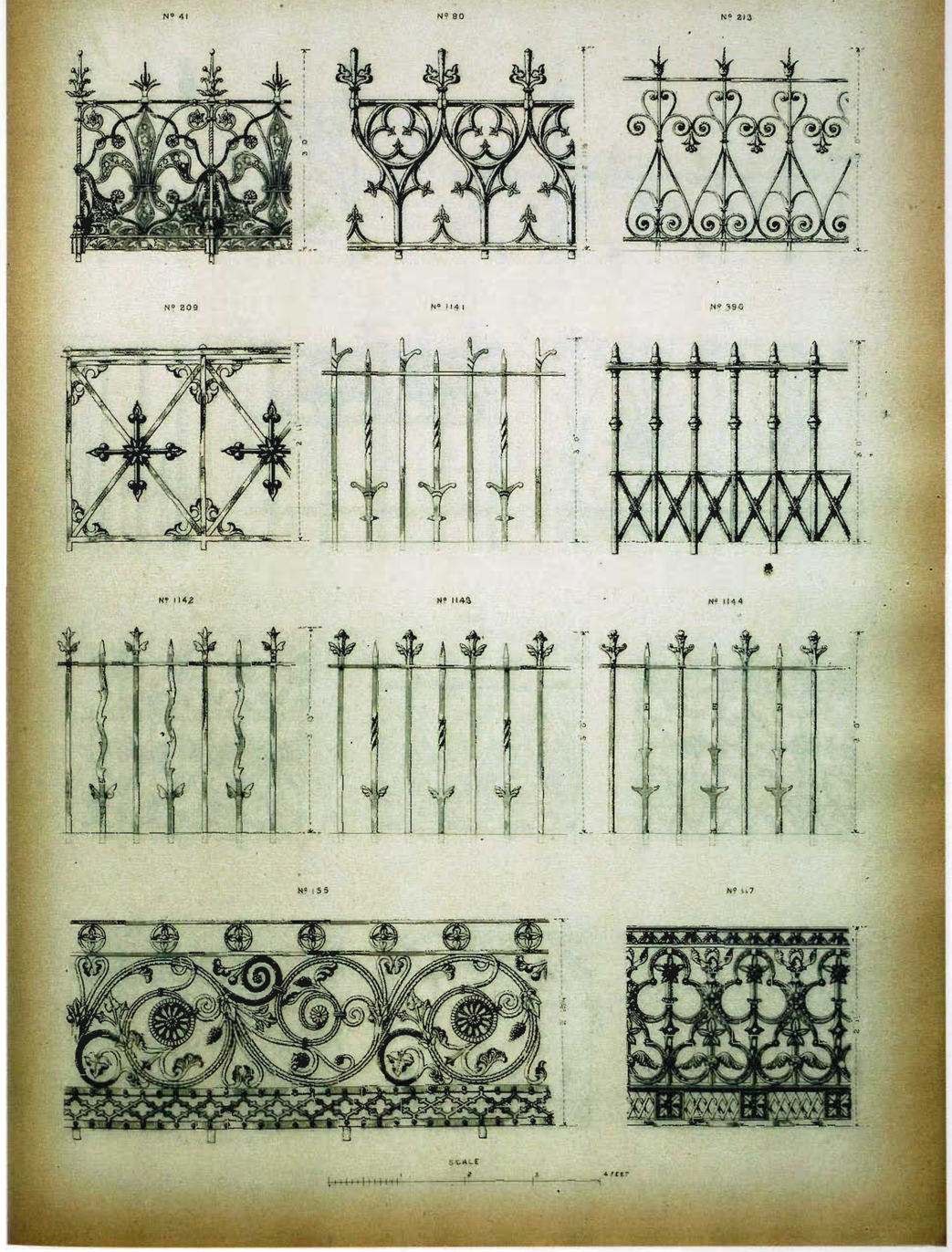




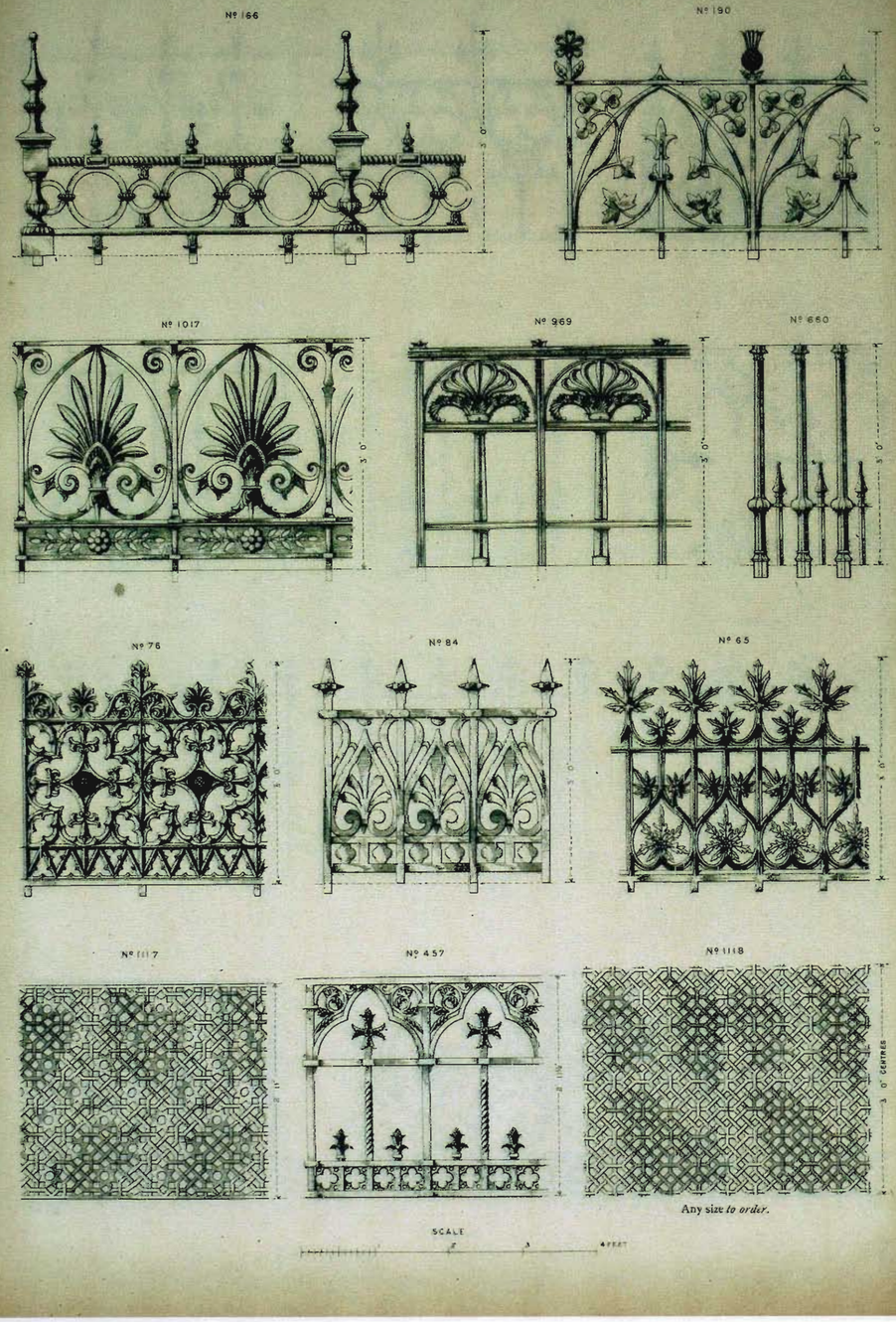
MACFARLANE'S CASTINGS — RAILING



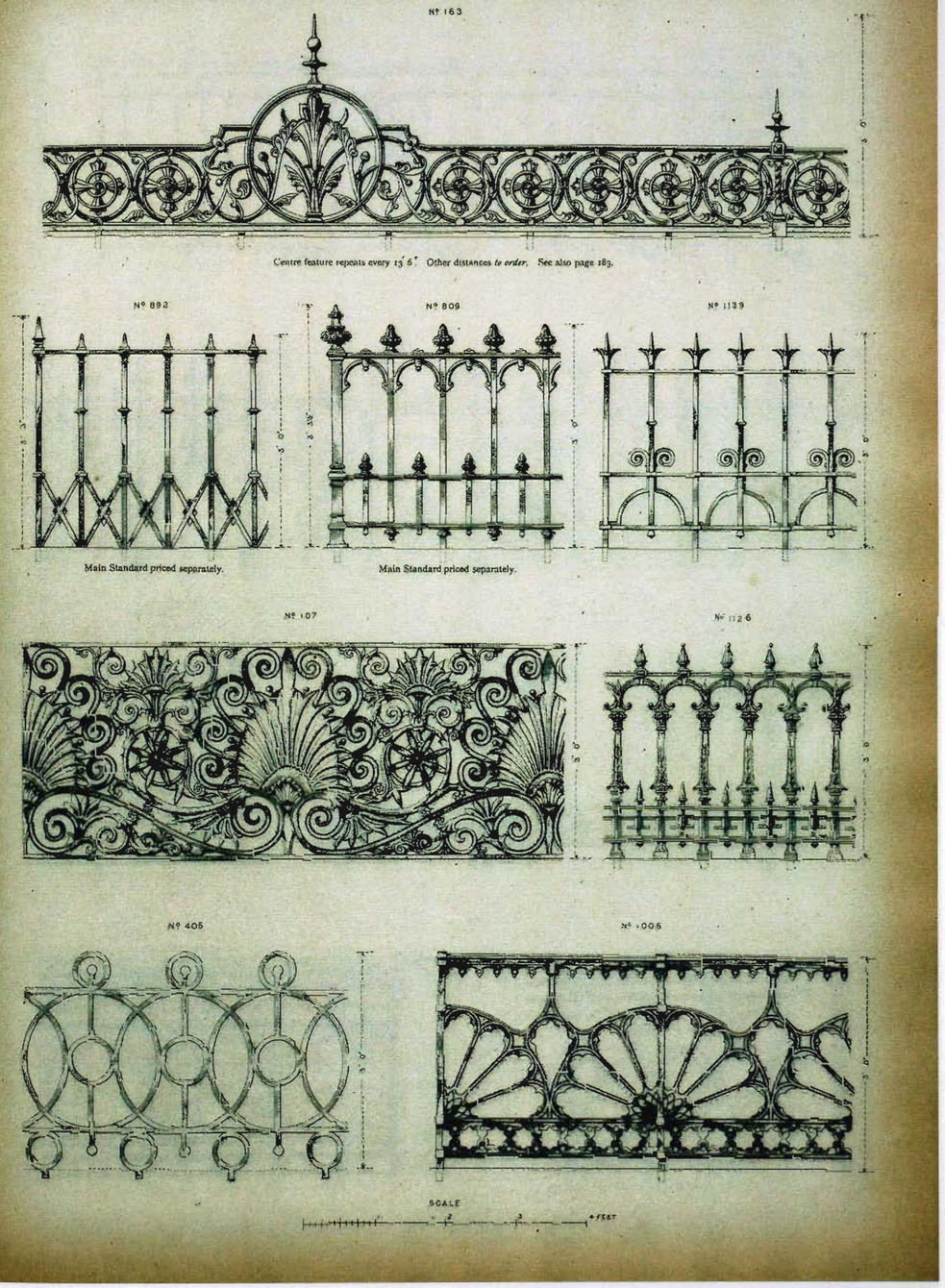
MACFARLANE'S CASTINGS — RAILING

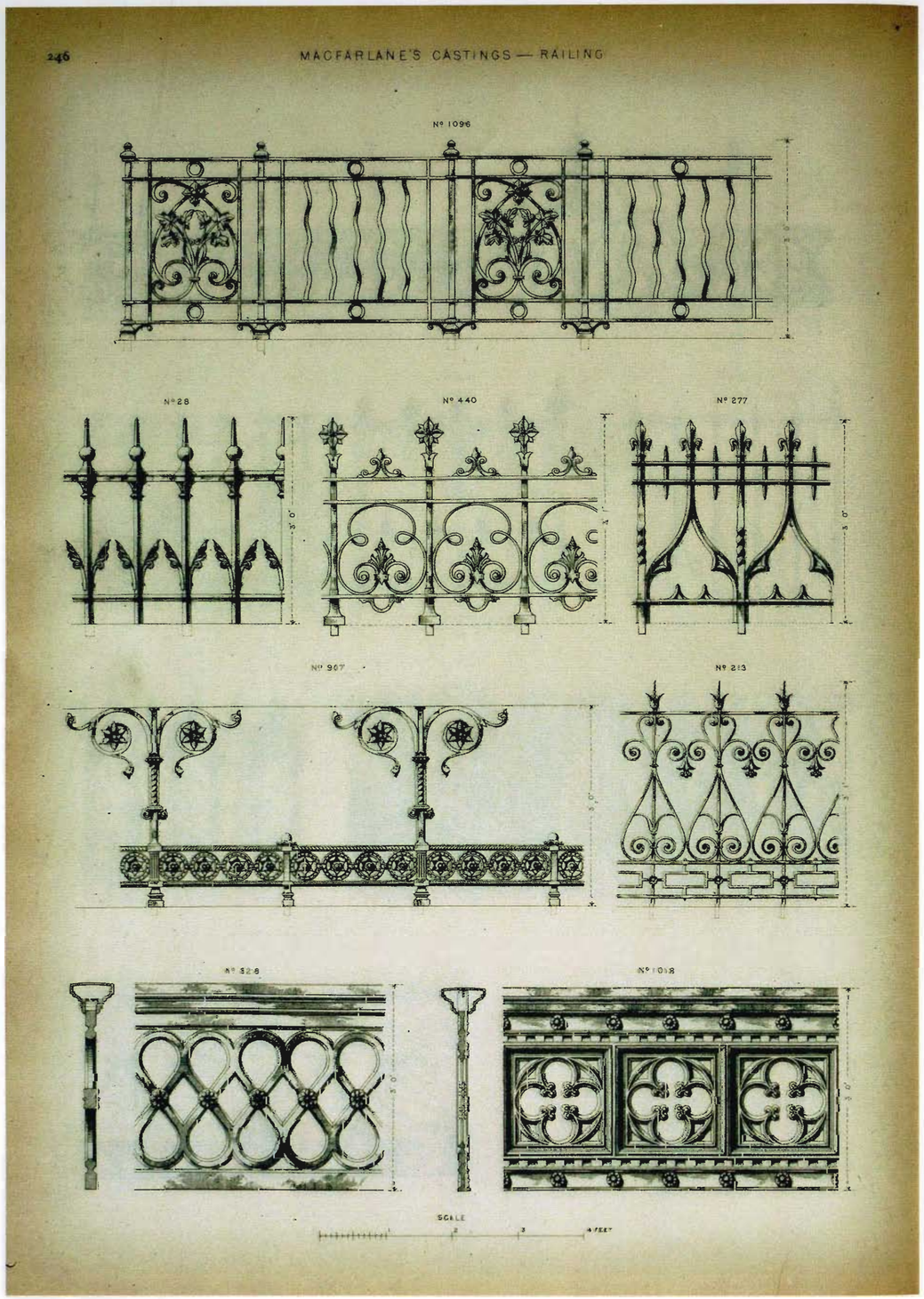


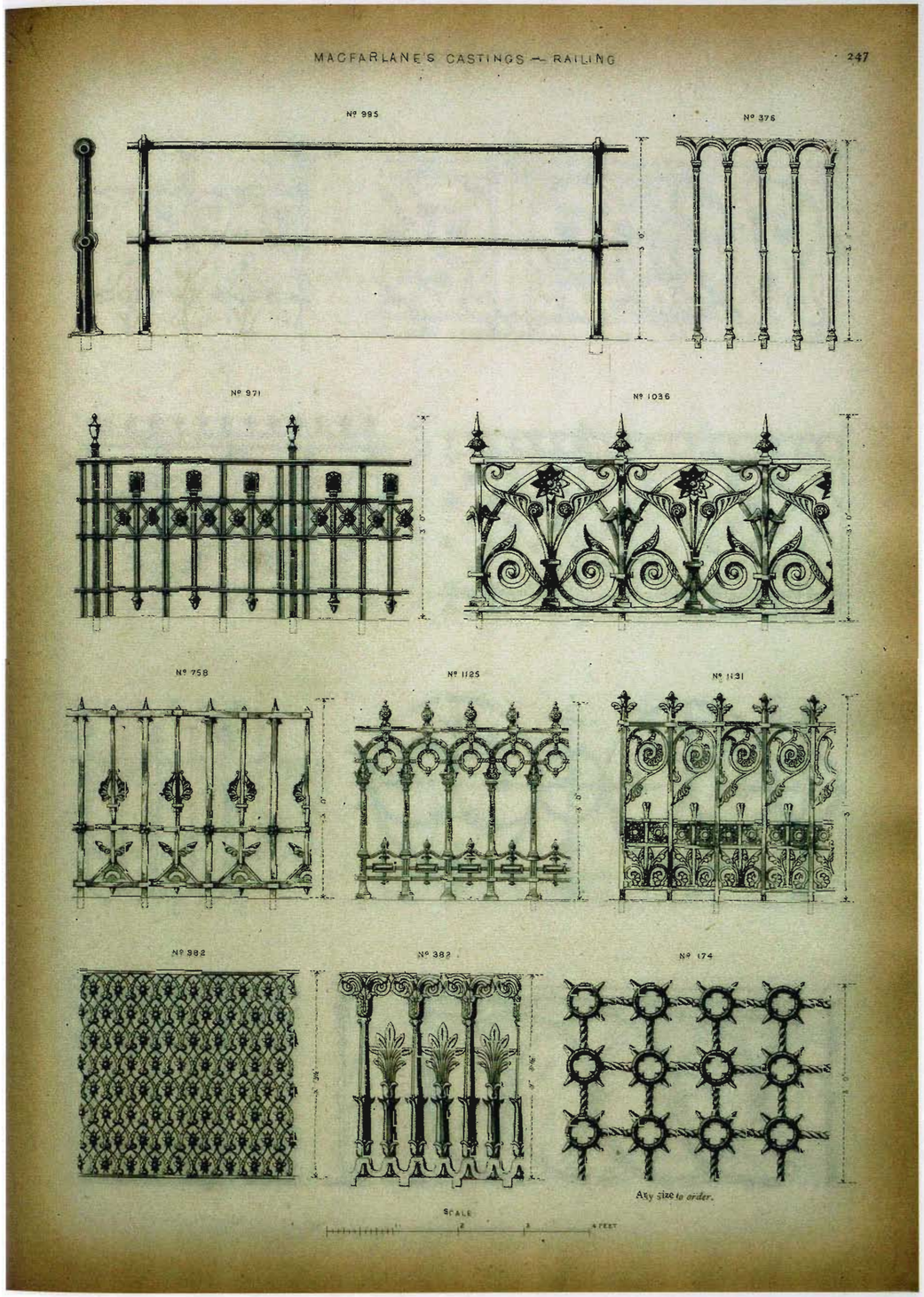
MACFARLANE'S CASTINGS — RAILING

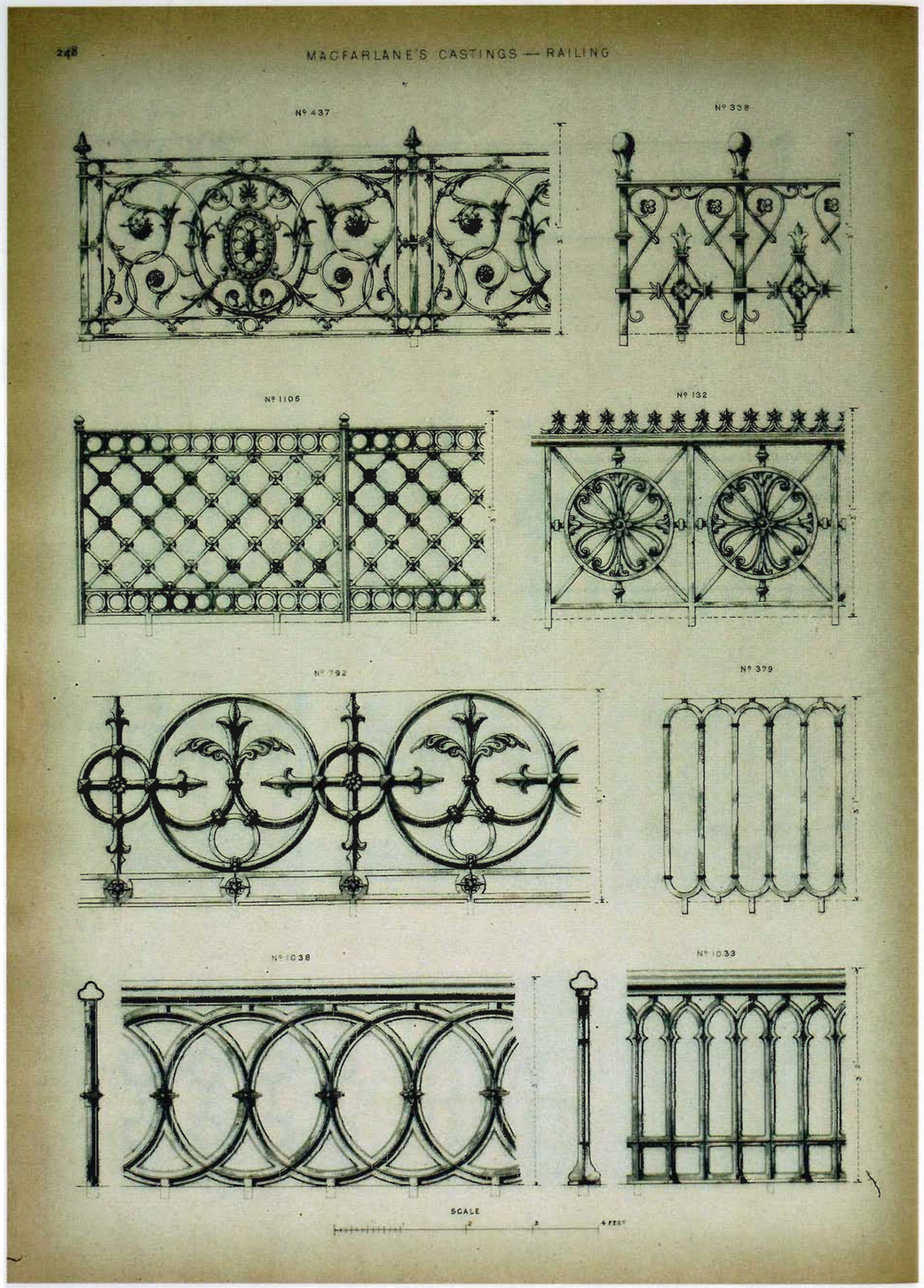


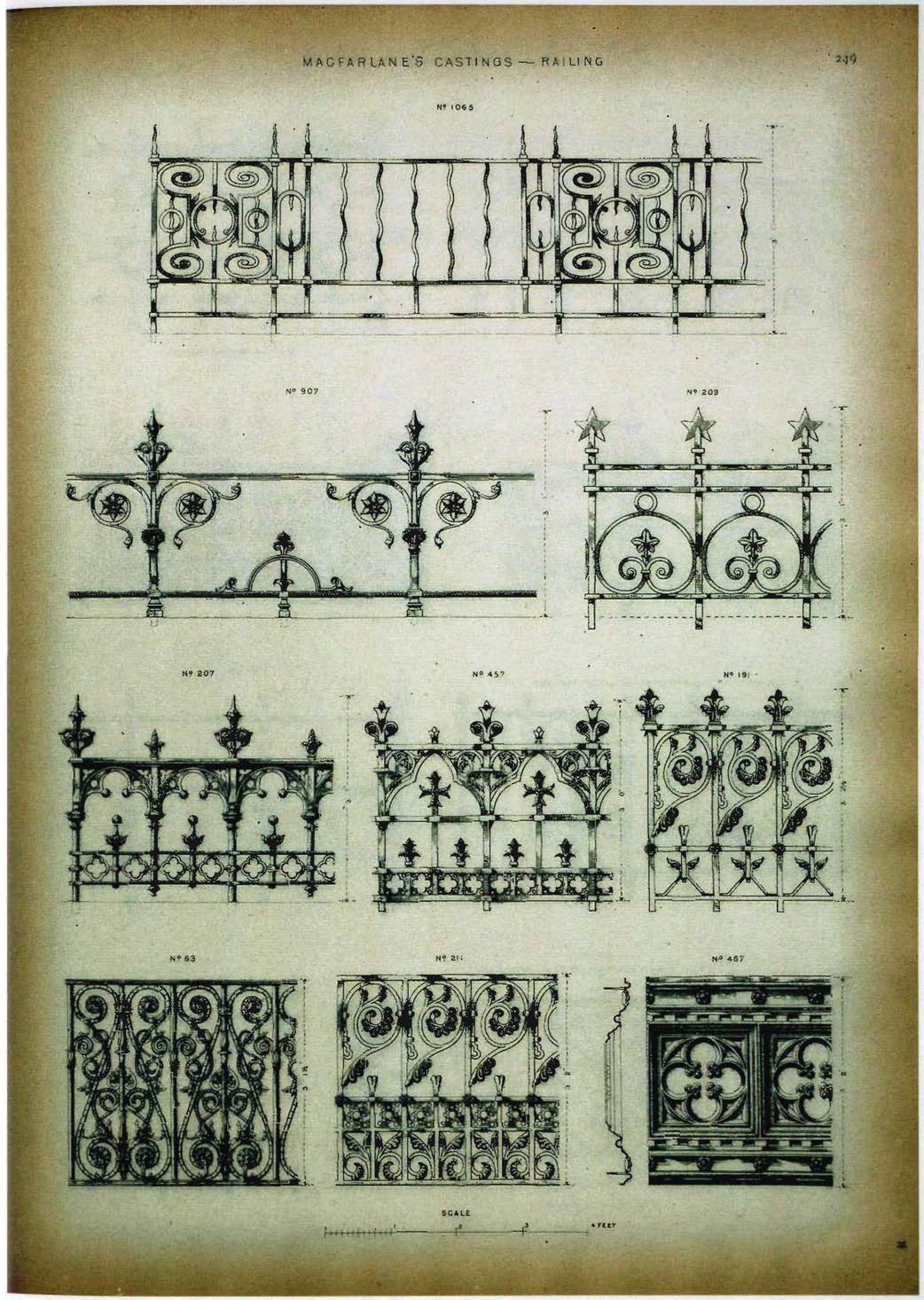
MACFARLANE'S CASTINGS — RAILING




246
MACFARLANE'S CASTINGS — RAILING
Nº 1096
Nº 28
Nº 440
Nº 277
Nº 907
Nº 213
Nº 328
Nº 1018
SCALE
1 2 3 4 FEET

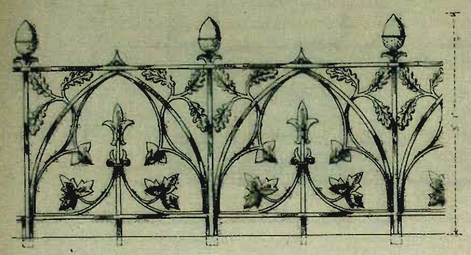

MACFARLANE'S CASTINGS — RAILING
247
Nº 995
Nº 376
Nº 971
Nº 1036
Nº 758
Nº 1125
Nº 1131
Nº 382
Nº 382
Nº 174
Any size to order.
SCALE
1 2 3 4 FEET


248
MACFARLANE'S CASTINGS — RAILING
Nº 437
Nº 338
Nº 1105
Nº 132
Nº 792
Nº 379
Nº 1038
Nº 1033
SCALE
4 FEET

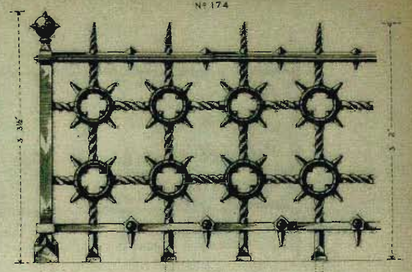

MACFARLANE'S CASTINGS — RAILING
249
Nº 1065
Nº 907
Nº 203
Nº 207
Nº 457
Nº 191
Nº 53
Nº 214
Nº 467
SCALE
4 FEET

MACFARLANE'S CASTINGS — RAILING

Nº 1012

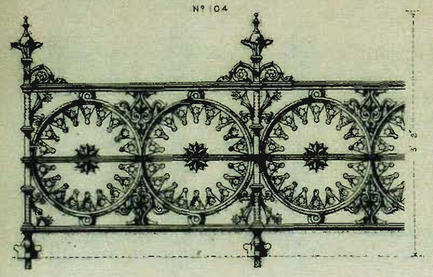


Nº 174

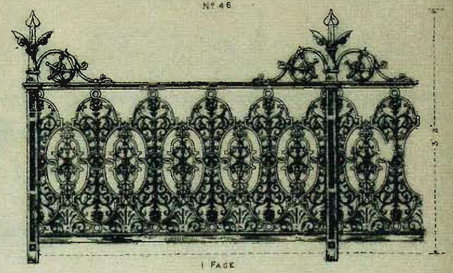


Main Standard priced separately.

Nº 104



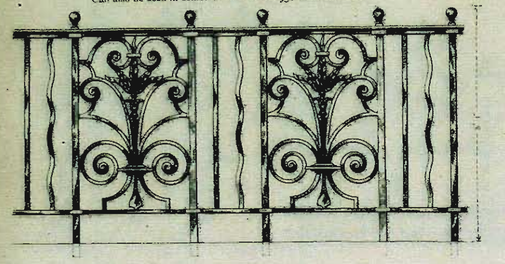
Nº 46



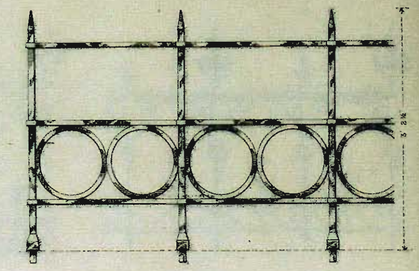
1 PAGE

Nº 951

Can also be used in combination with No. 952 illustrated below.



Nº 180

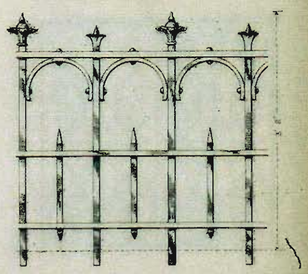


Nº 952

Can also be used in combination with No. 951 illustrated above.



Nº 864

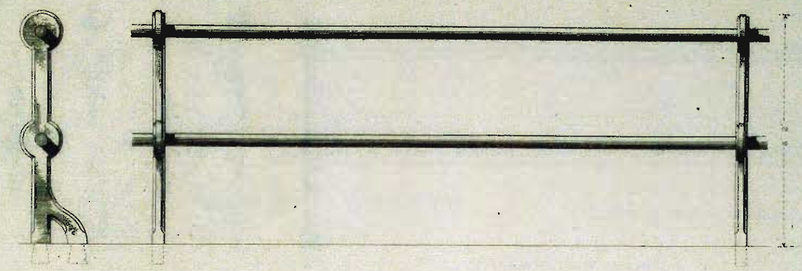


Main Standard priced separately

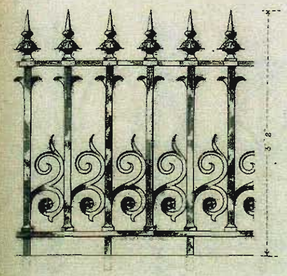
SCALE 1 2 3 4 FEET

MACFARLANE'S CASTINGS — RAILING

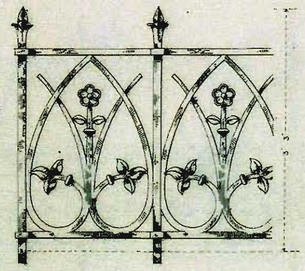
Nº 986



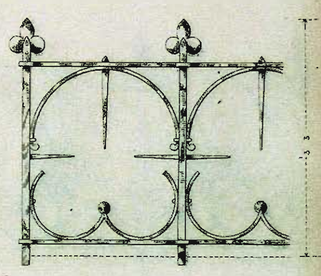
Nº 1013



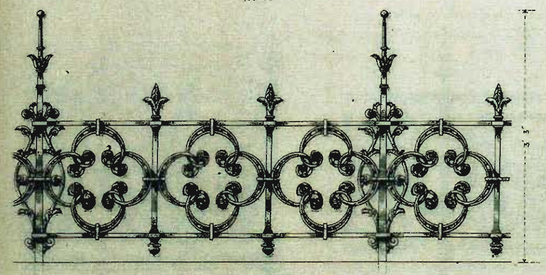
Nº 81



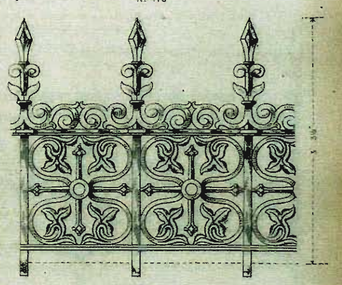
Nº 67



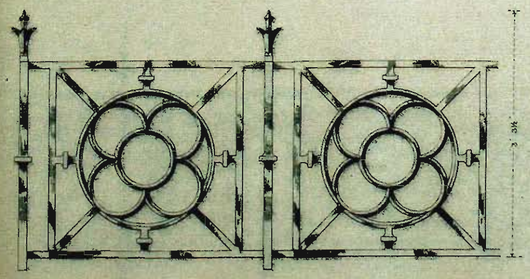
Nº 45



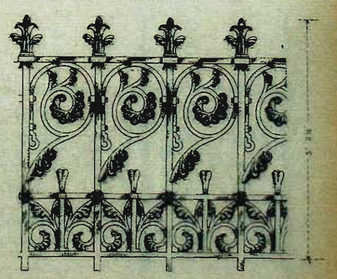
Nº 116



Nº 159

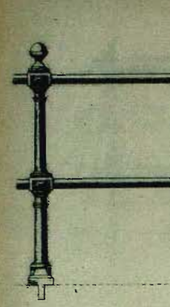


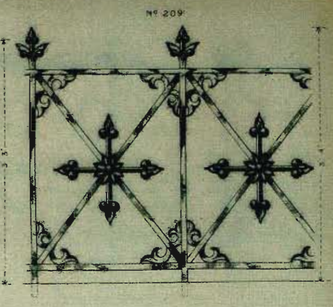
Nº 211



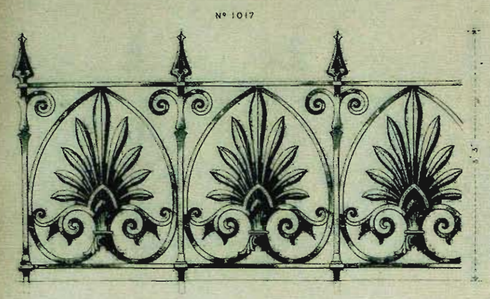
SCALE 1 2 3 4 FEET

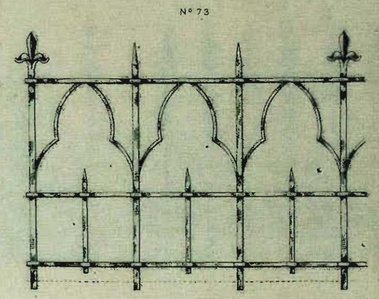
MACFARLANE'S CASTINGS — RAILING





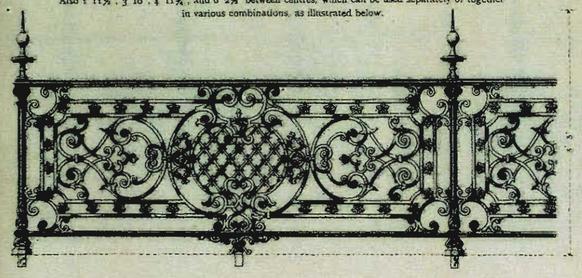
The rails of No. 471 are Malleable iron tube.

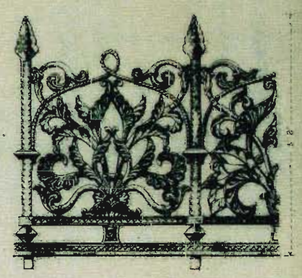




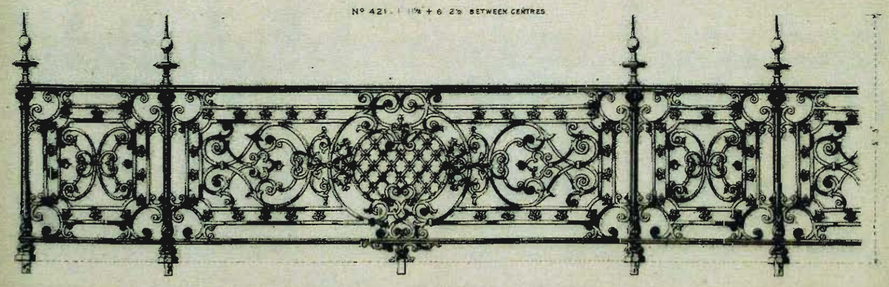
Nº 421 . 6 8¼ BETWEEN CENTRES

Also 1' 11¼", 3' 10", 4' 11¼", and 6' 2¾" between centres, which can be used separately or together in various combinations, as illustrated below.





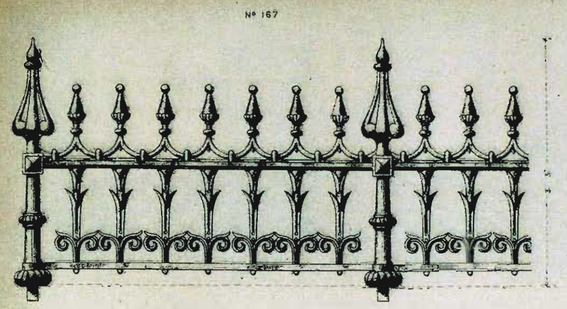
Nº 421 . 1 1⅞ + 6 2⅞ BETWEEN CENTRES

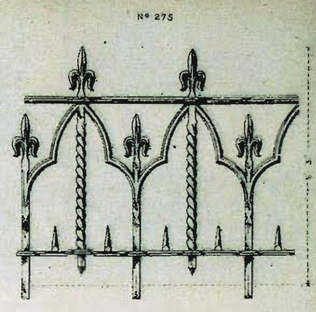


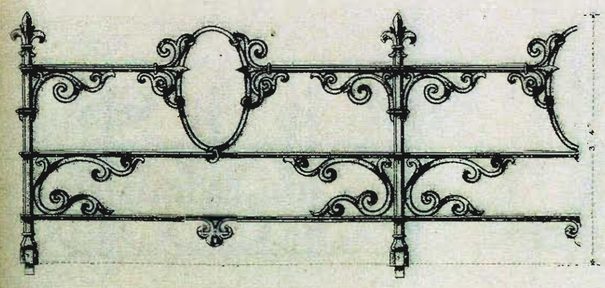
SCALE

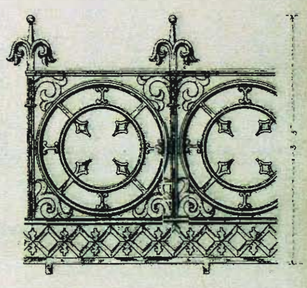
1 2 3 4 FEET

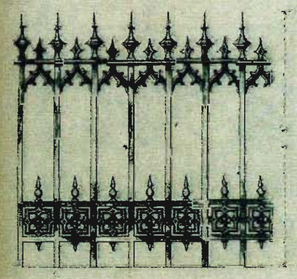
MACFARLANE'S CASTINGS — RAILING

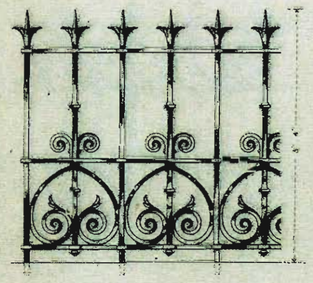


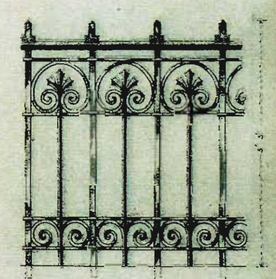


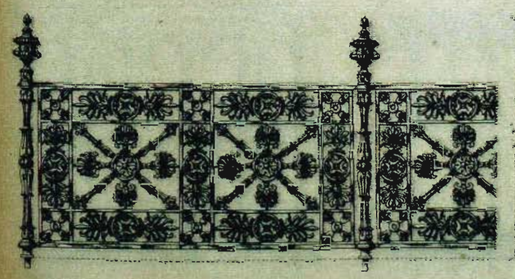




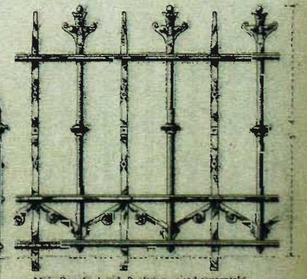








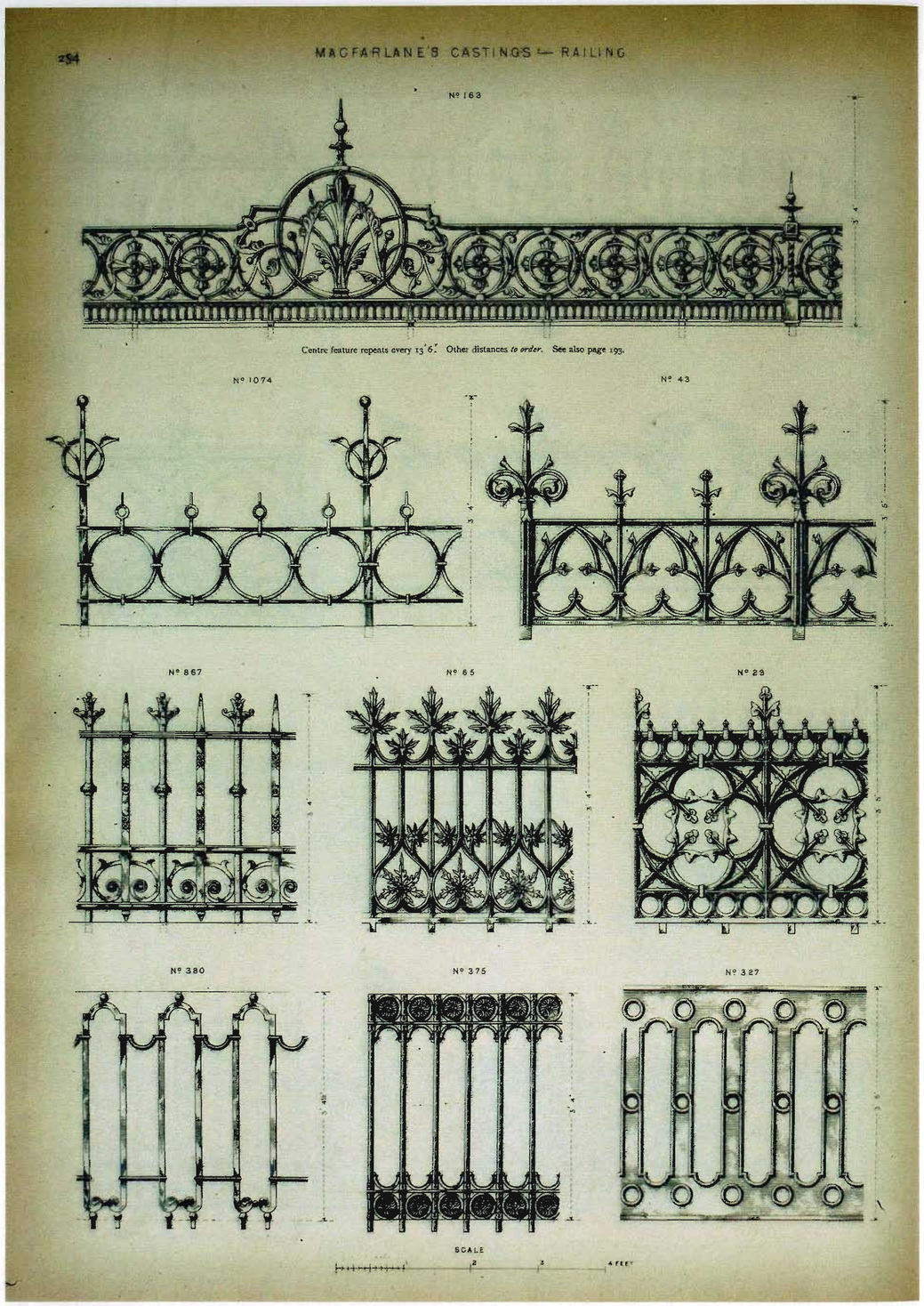


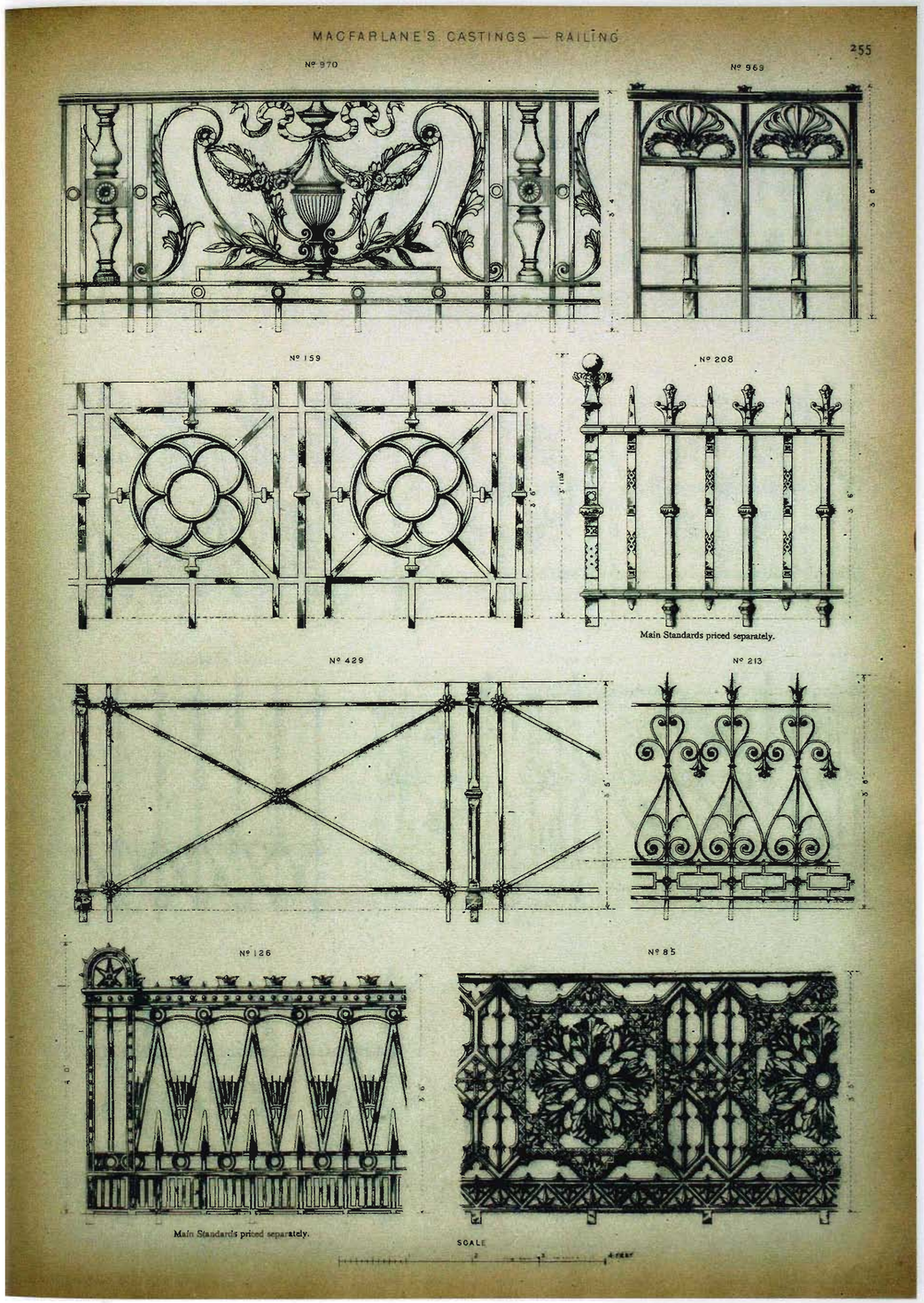


SCALE

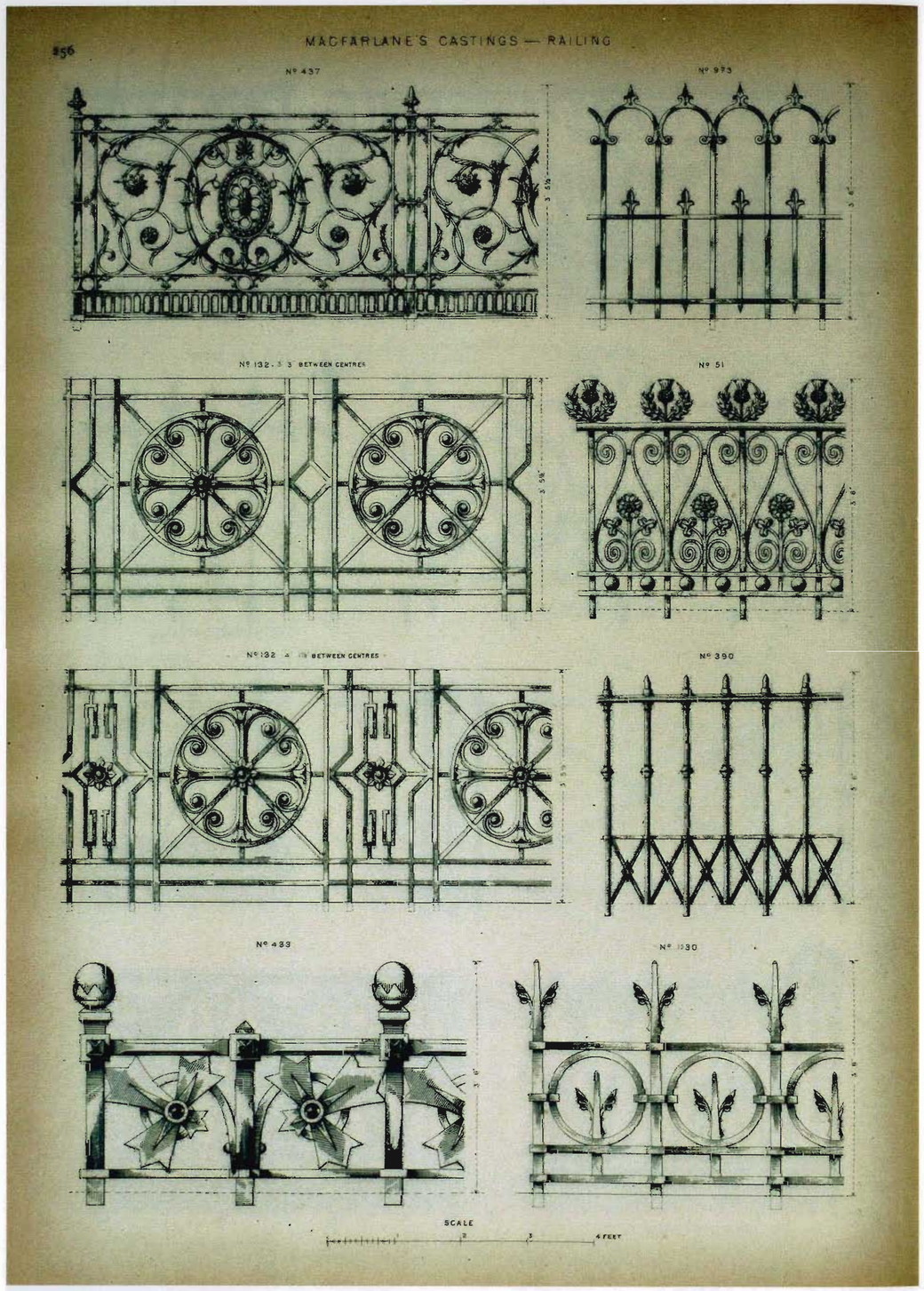
1 2 3 4 FEET

Main Standard with Backstay priced separately.

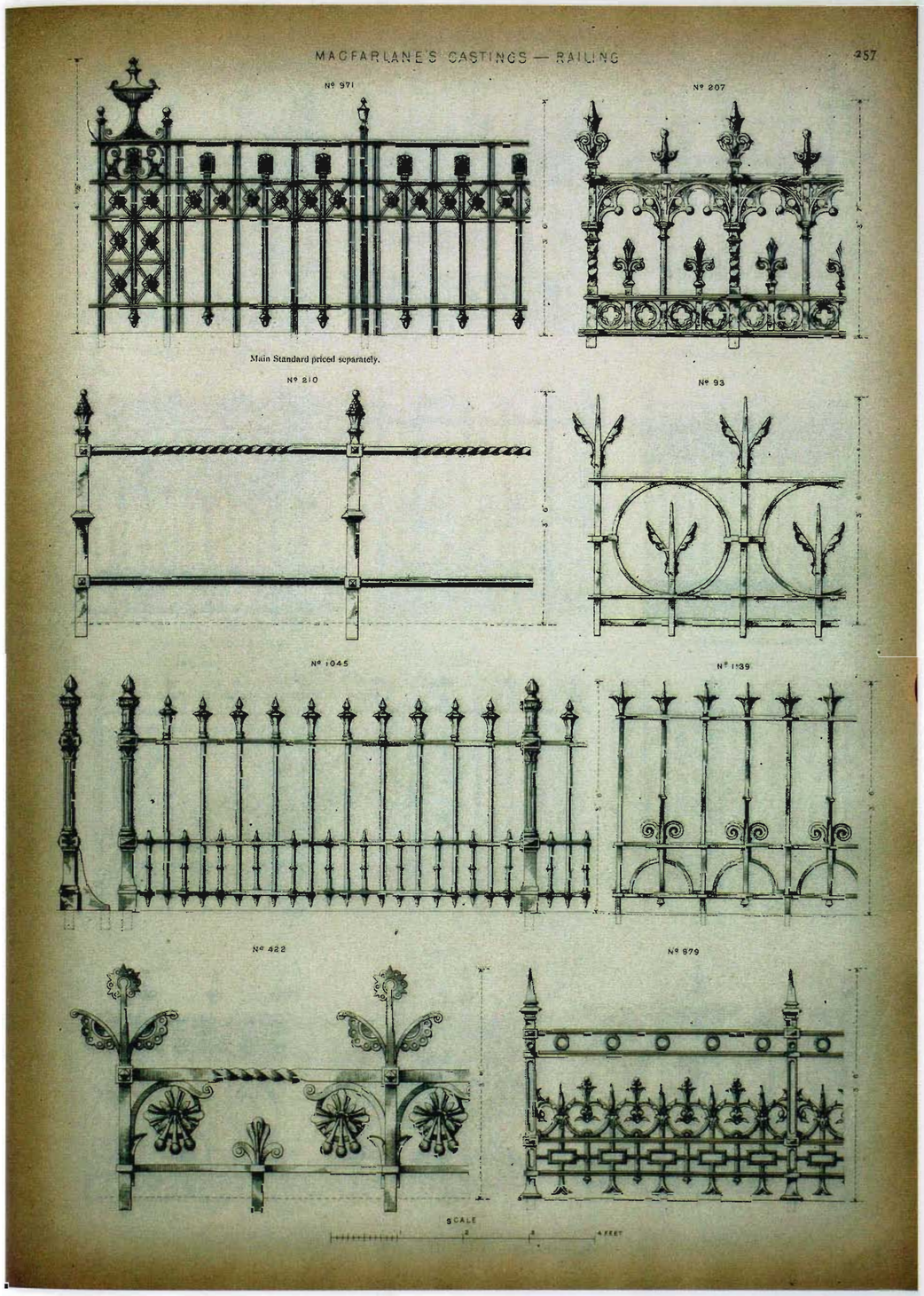

254
MACFARLANE'S CASTINGS — RAILING
Nº 163
Centre feature repeats every 13'6". Other distances *to order*. See also page 193.
Nº 1074
Nº 43
Nº 867
Nº 65
Nº 23
Nº 380
Nº 375
Nº 327
SCALE


MACFARLANE'S CASTINGS — RAILING
255
Nº 970
Nº 969
Nº 159
Nº 208
Main Standards priced separately.
Nº 429
Nº 213
Nº 126
Nº 85
Main Standards priced separately.
SCALE

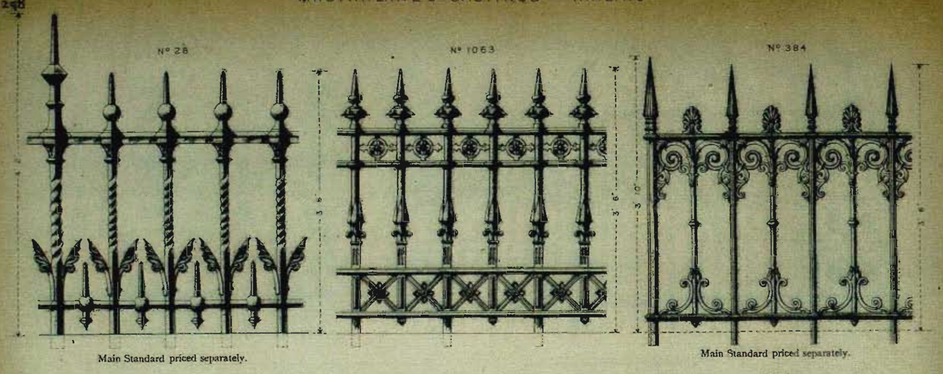
MACFARLANE'S CASTINGS — RAILING



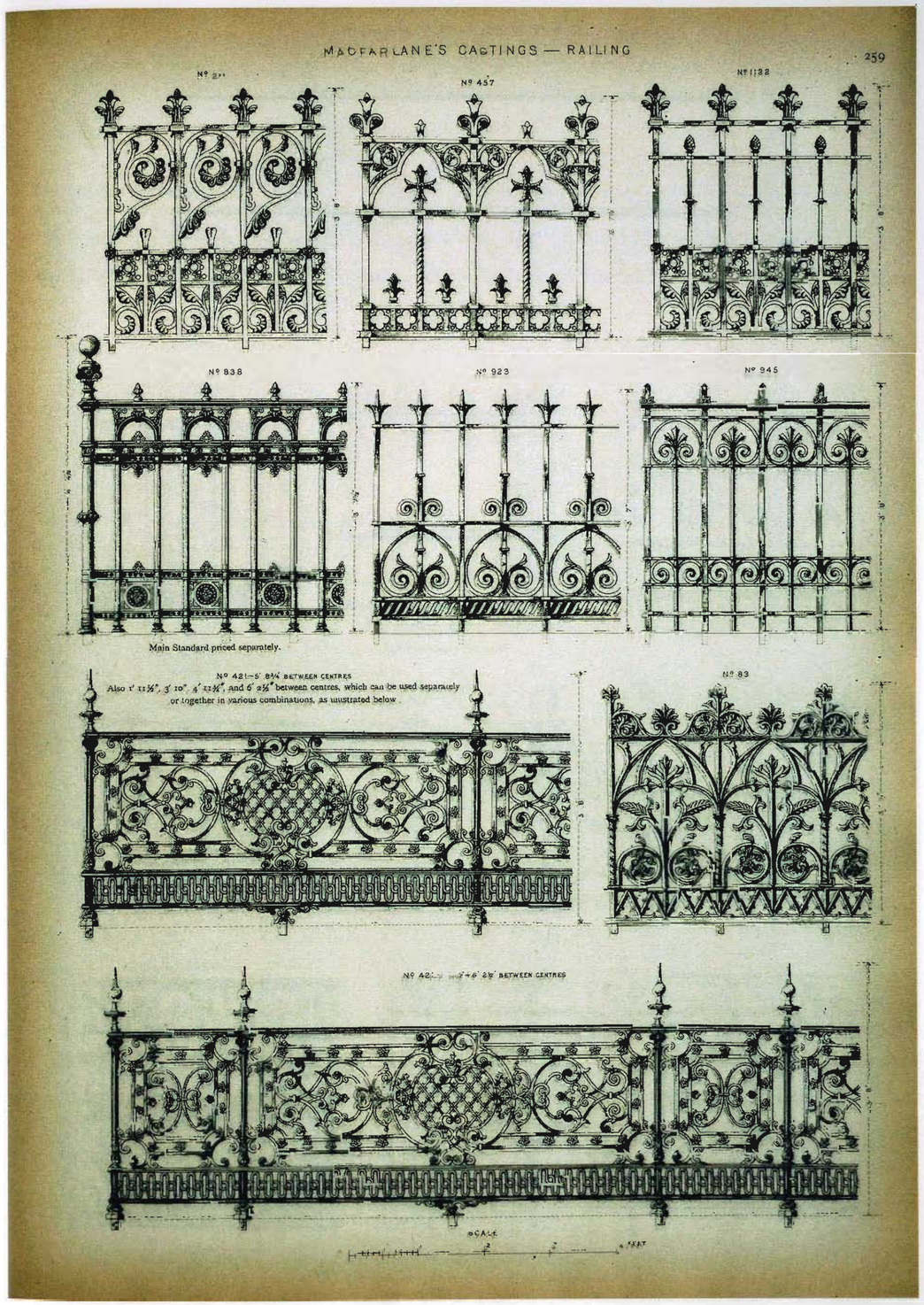
MACFARLANE'S CASTINGS — RAILING

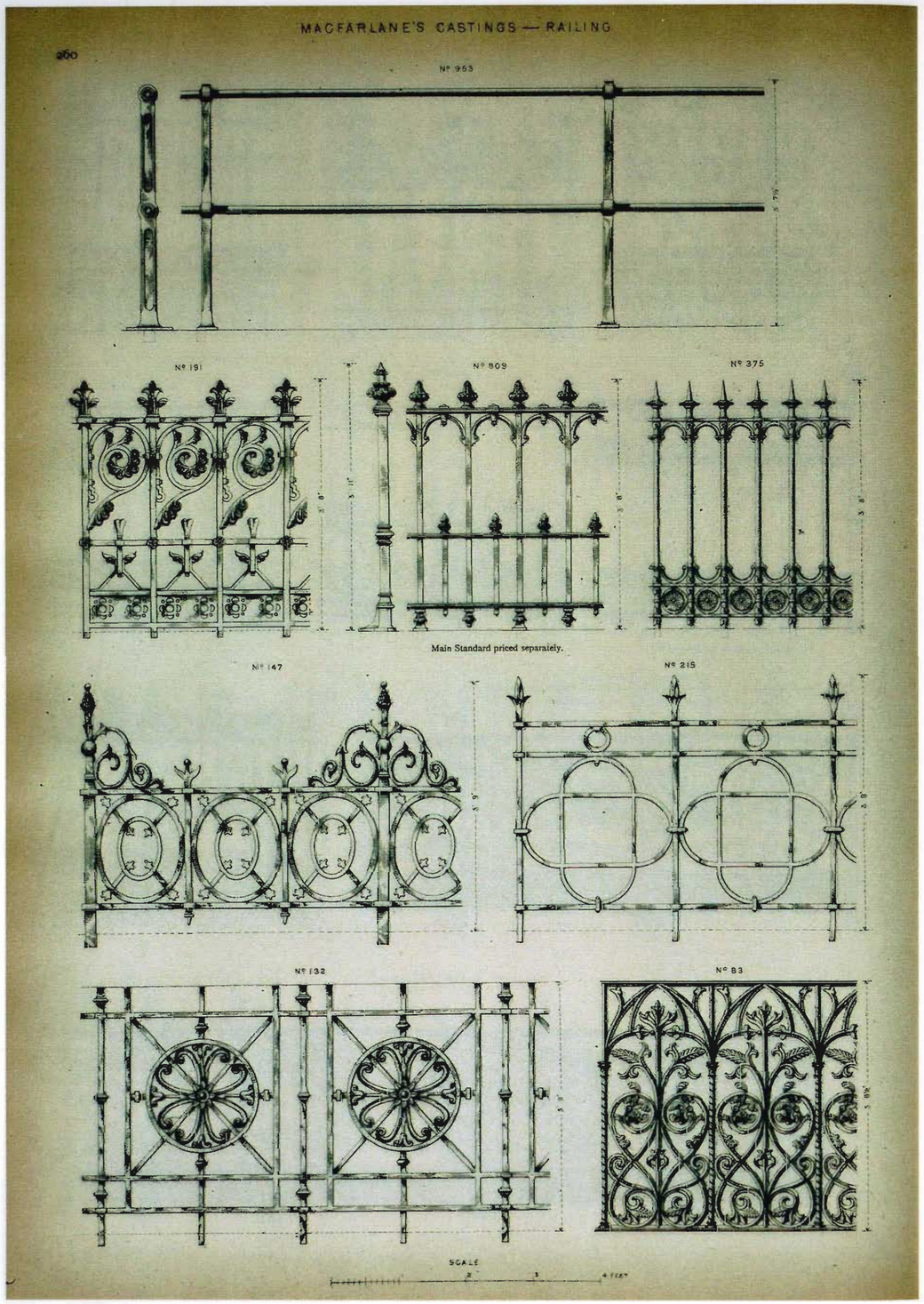


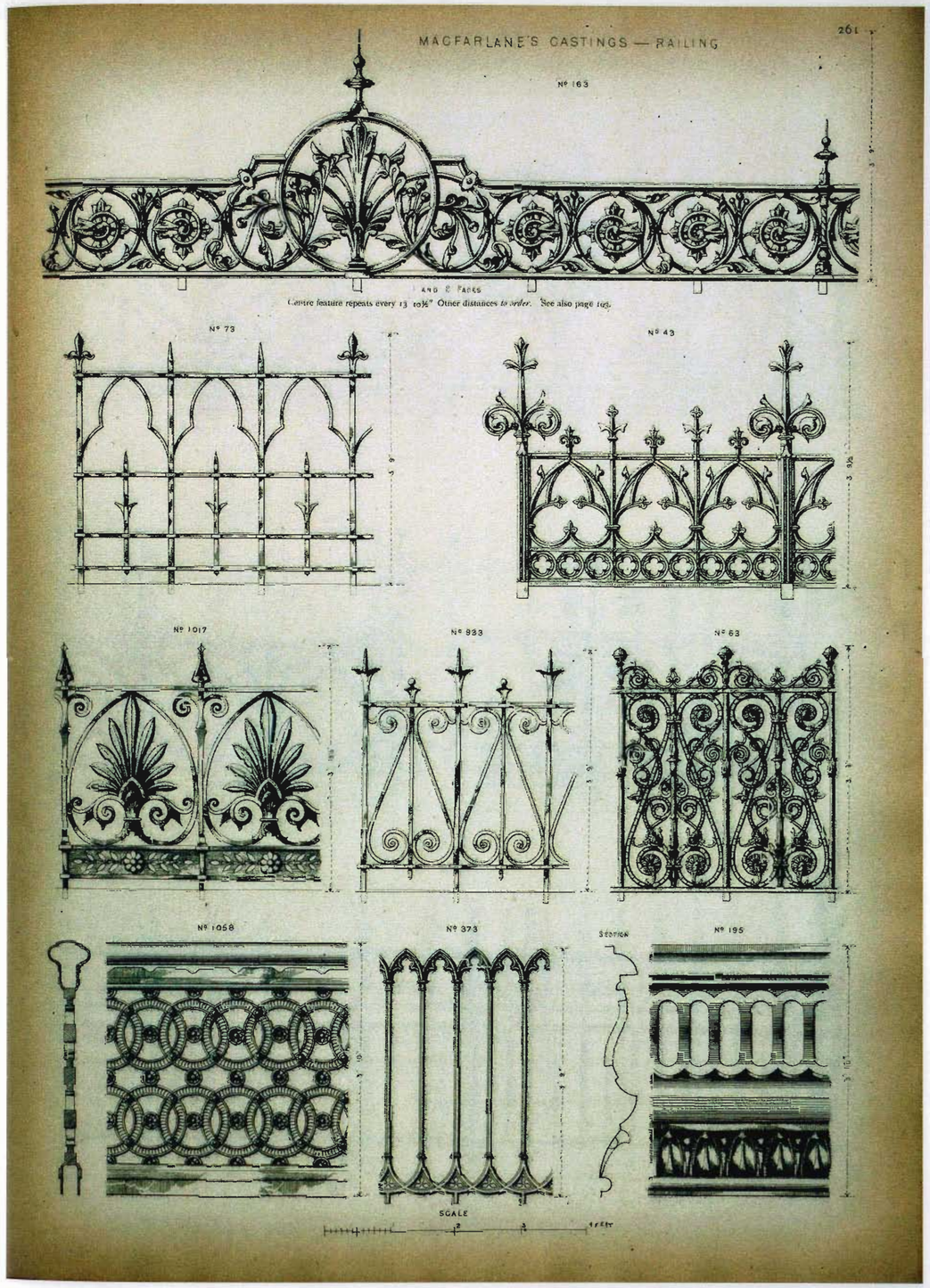
MACFARLANE'S CASTINGS — RAILING



MACFARLANE'S CASTINGS — RAILING

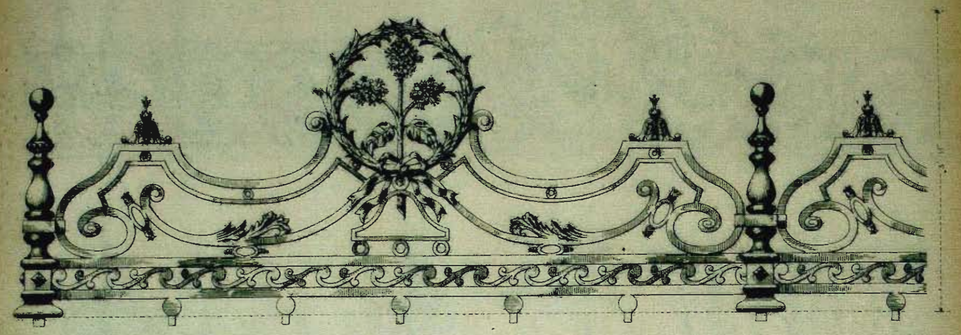



MACFARLANE'S CASTINGS — RAILING
260
Nº 953
Nº 191
Nº 809
Nº 375
Main Standard priced separately.
Nº 147
Nº 215
Nº 132
Nº 83
SCALE
2
3
4 FEET

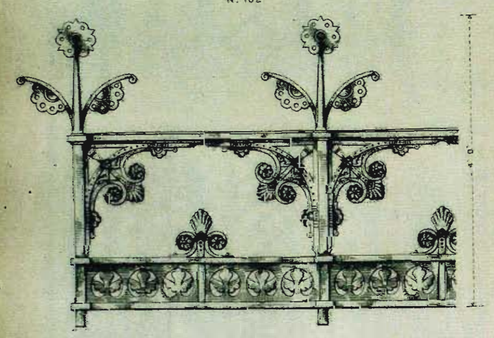

MACFARLANE'S CASTINGS — RAILING
261
Nº 163
AND 8 PACES
Centre feature repeats every 13 10¾" Other distances to order. See also page 105.
Nº 73
Nº 43
Nº 1017
Nº 833
Nº 63
Nº 1058
Nº 373
SECTION
Nº 195
SCALE
2
3
4 FEET

MACFARLANE'S CASTINGS — RAILING

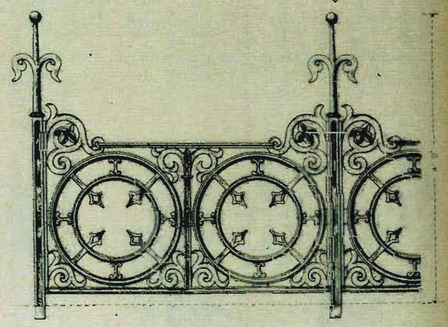
Nº 443 – 9' 9" BETWEEN CENTRES
ALSO 11' 6" BETWEEN CENTRES



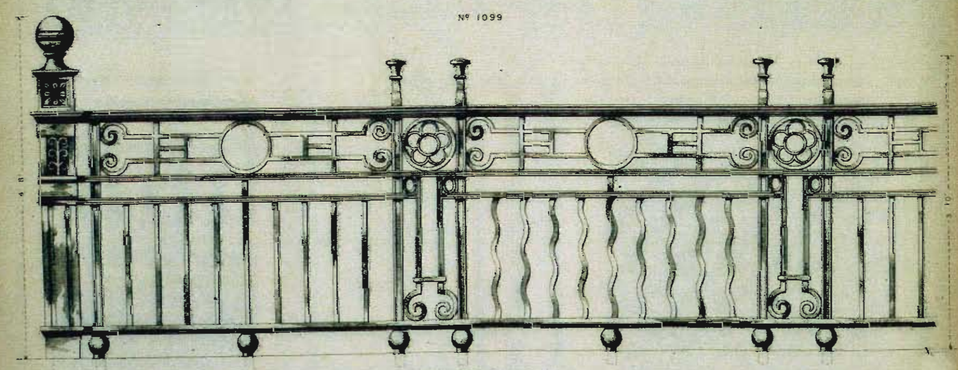
Nº 162



Nº 42



Nº 1099

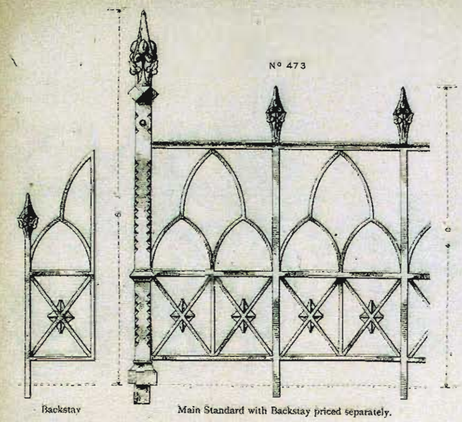


Main Standard priced separately.

SCALE 0 1 2 3 4 FEET

MACFARLANE'S CASTINGS — RAILING

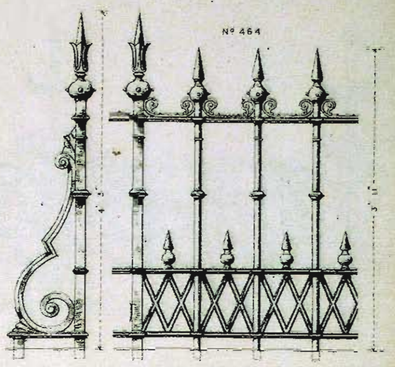
Nº 473



Backstay

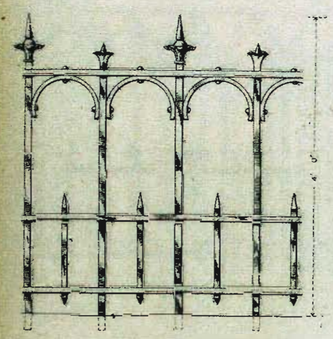
Main Standard with Backstay priced separately.

Nº 464

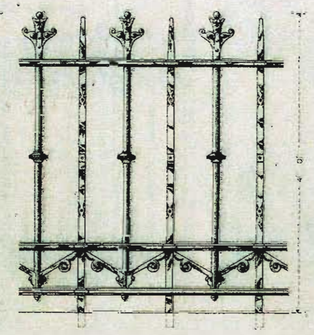


Main Standard with Backstay priced separately.

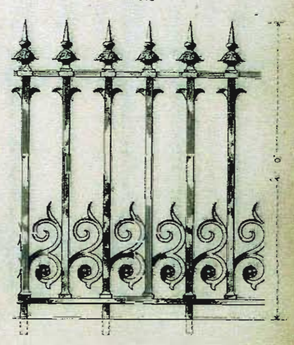
Nº 864



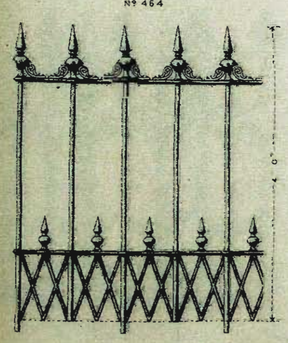
Nº 208



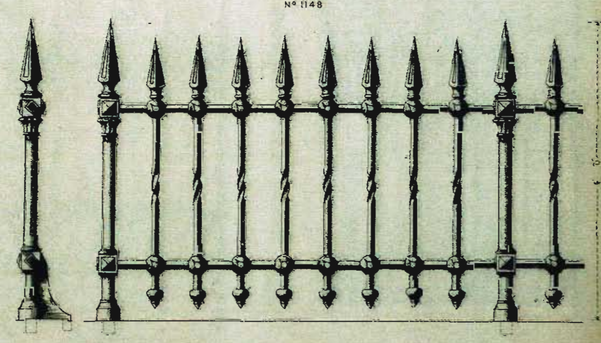
Nº 1013



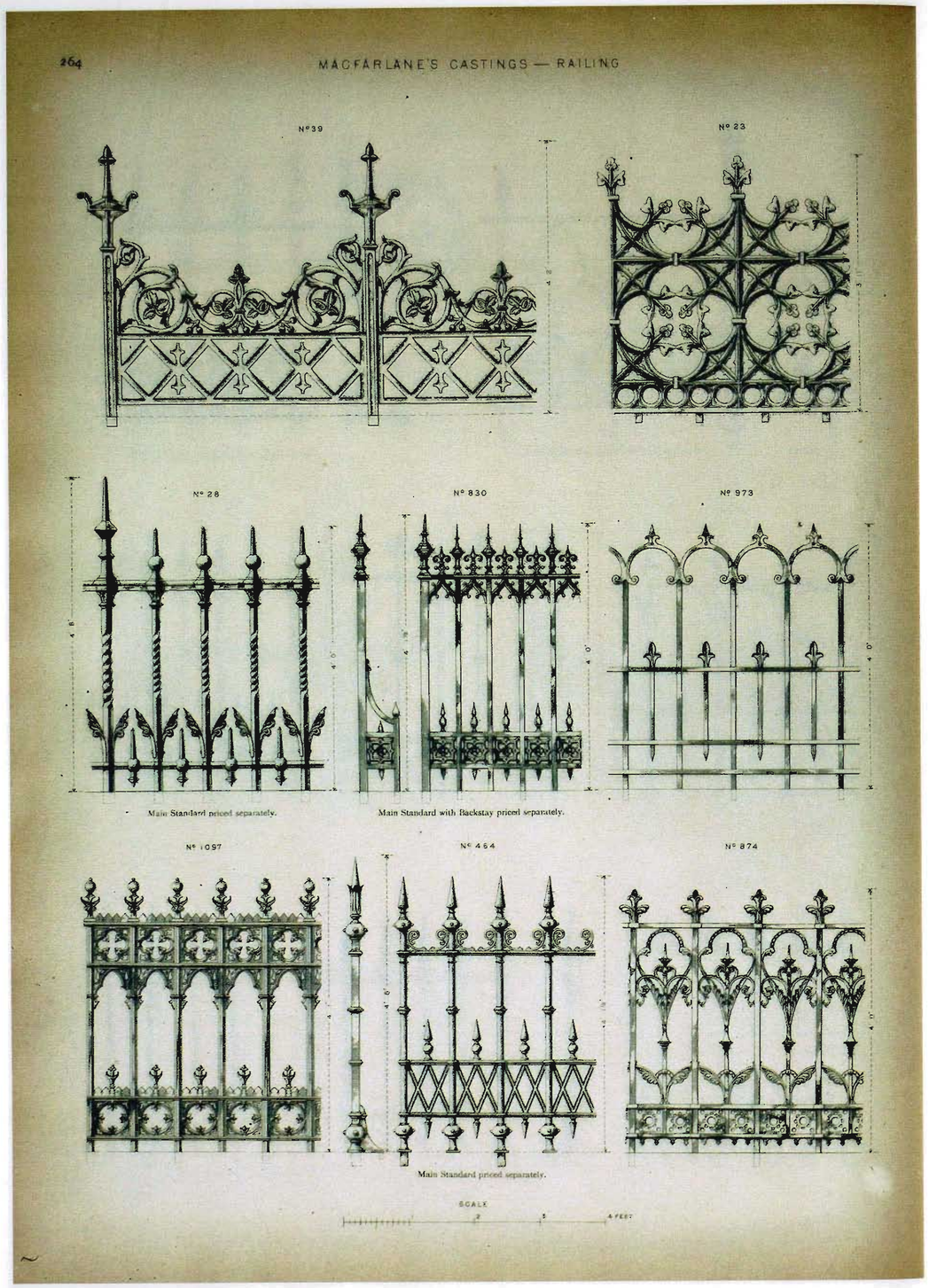
Nº 464

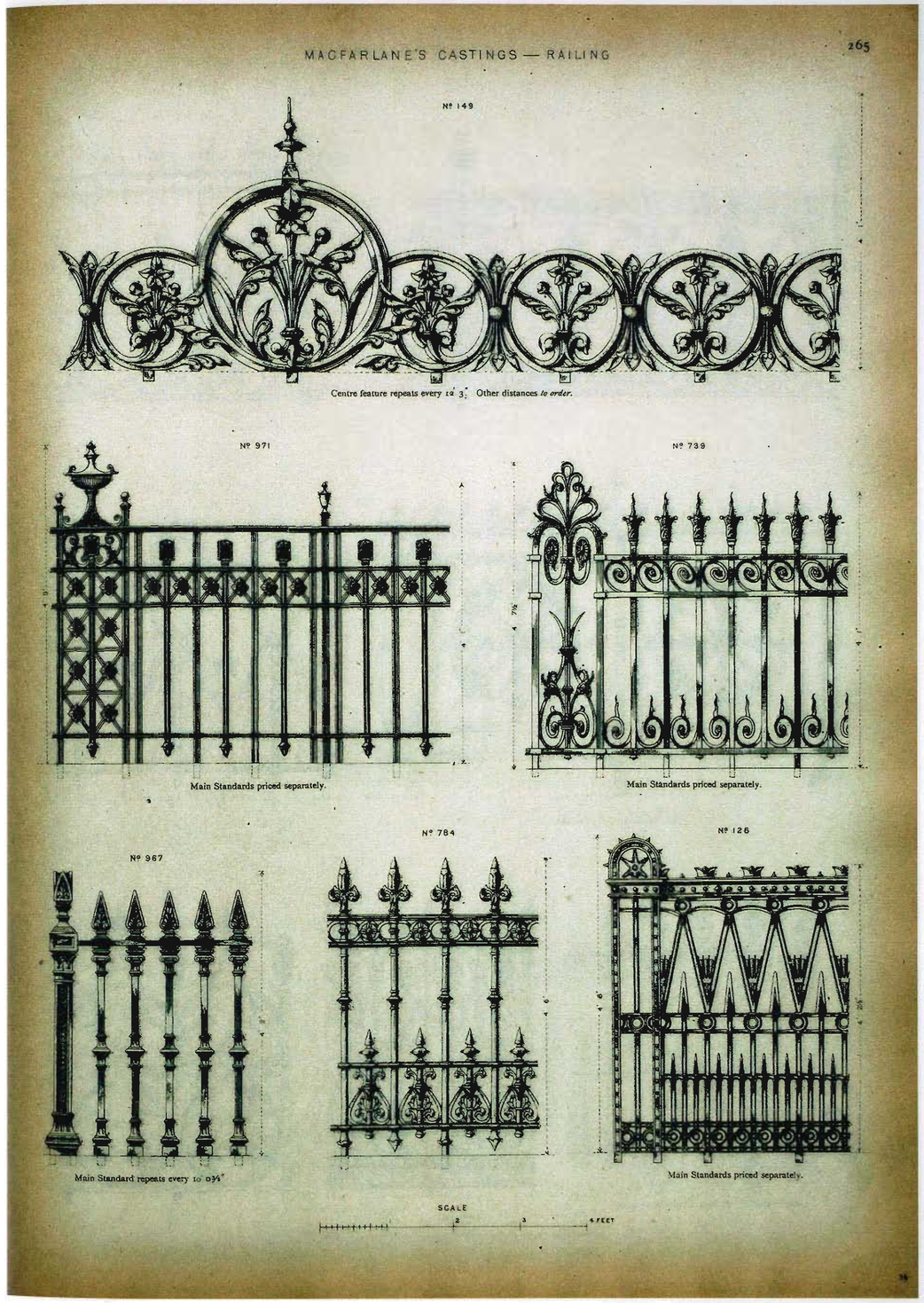


Nº 1148

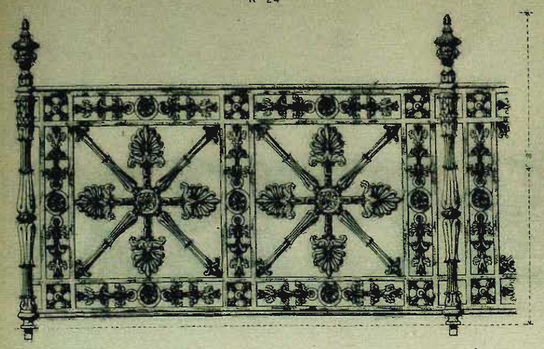


SCALE 0 1 2 3 4 FEET

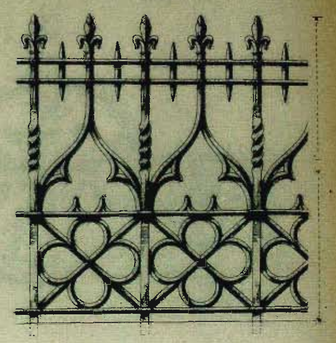

264
MACFARLANE'S CASTINGS — RAILING
Nº 39
Nº 23
Nº 28
Nº 830
Nº 973
Main Standard priced separately.
Main Standard with Backstay priced separately.
Nº 1097
Nº 464
Nº 874
Main Standard priced separately.
SCALE
2
3
4 FEET


MACFARLANE'S CASTINGS — RAILING
265
Nº 149
Centre feature repeats every 12' 3". Other distances to order.
Nº 971
Nº 739
Main Standards priced separately.
Main Standards priced separately.
Nº 967
Nº 784
Nº 126
Main Standard repeats every 10 03/4"
Main Standards priced separately.
SCALE
2
3
4 FEET

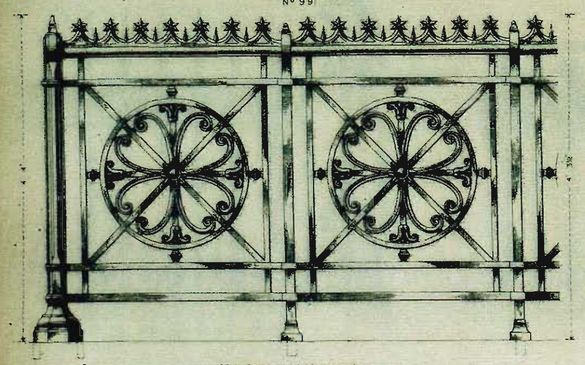
Nº 24



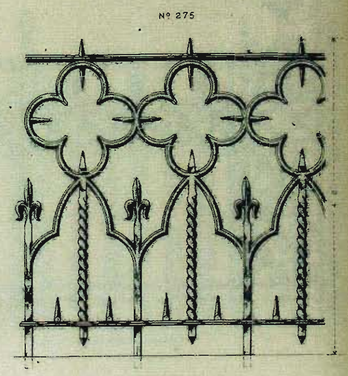
Nº 277



Nº 99

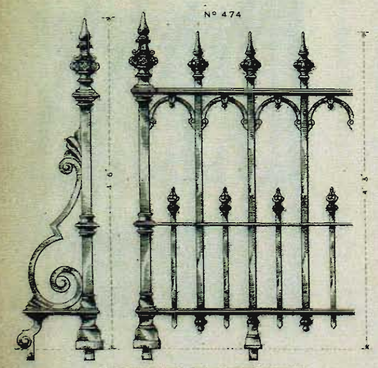


Nº 275

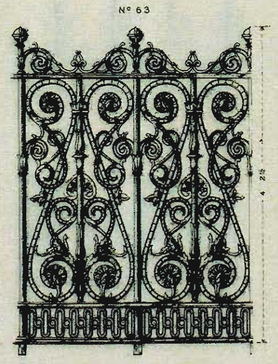


Main Standard priced separately.

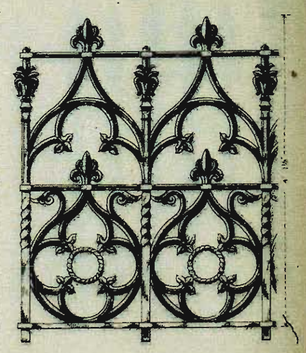
Nº 474



Nº 63



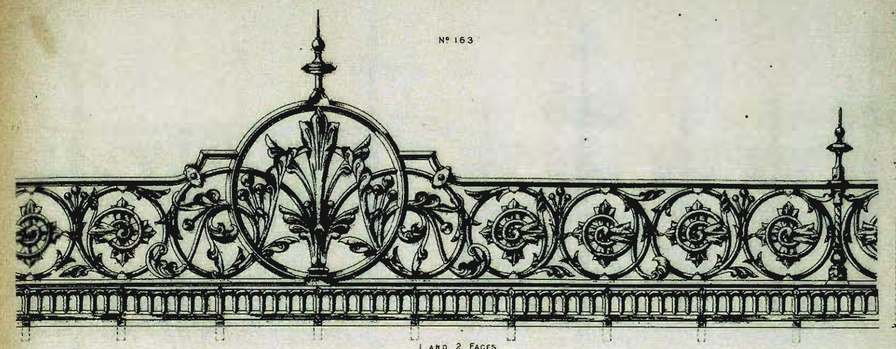
Nº 317



Main Standard with Backstay priced separately.

SCALE 1 2 3 4 FEET

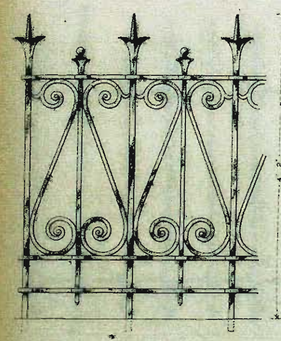
Nº 163



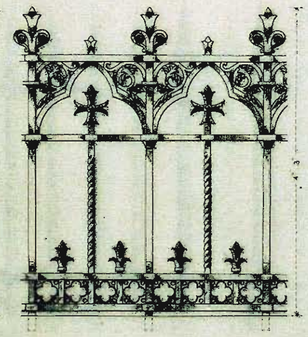
1 AND 2 FACES

Centre feature repeats every 13' 10¾"; other distances *to order*. See also page 208

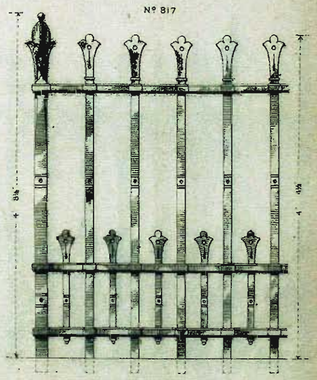
Nº 823



Nº 457

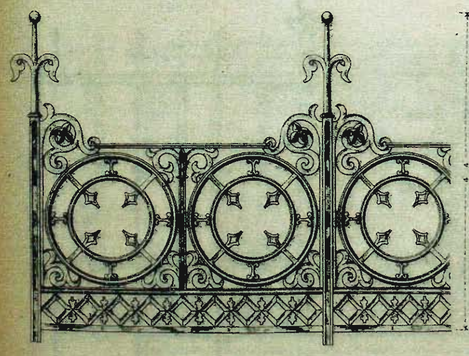


Nº 817

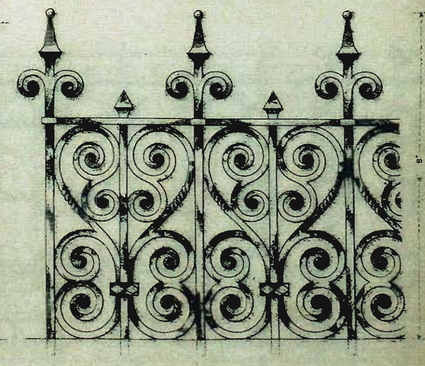


Main Standard priced separately.

Nº 42

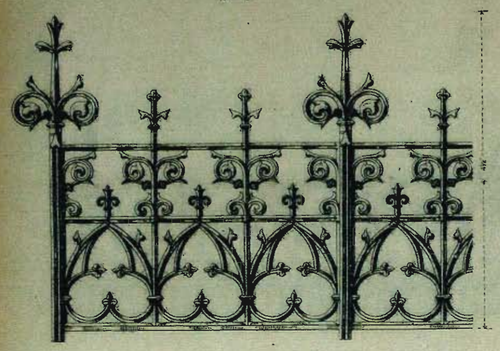


Nº 1004

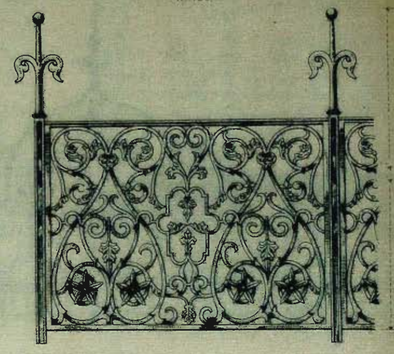


SCALE 1 2 3 4 FEET

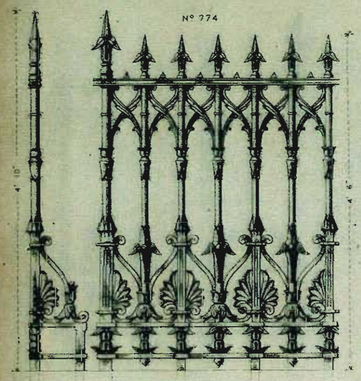
Nº 43



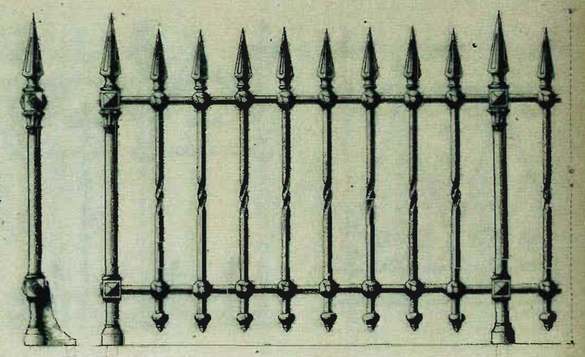
Nº 129



Nº 774

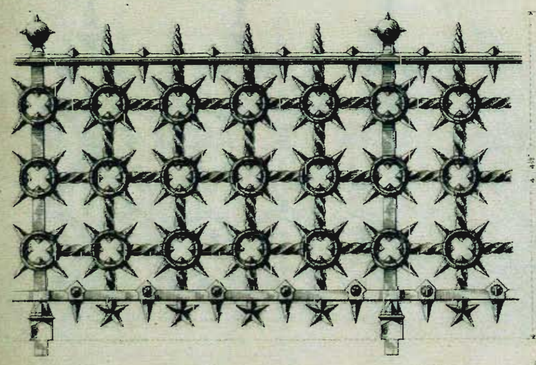


Nº 1148

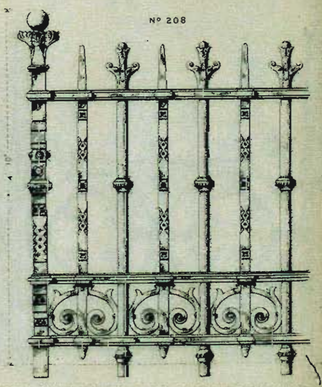


Main Standard with Backstay priced separately.

Nº 174



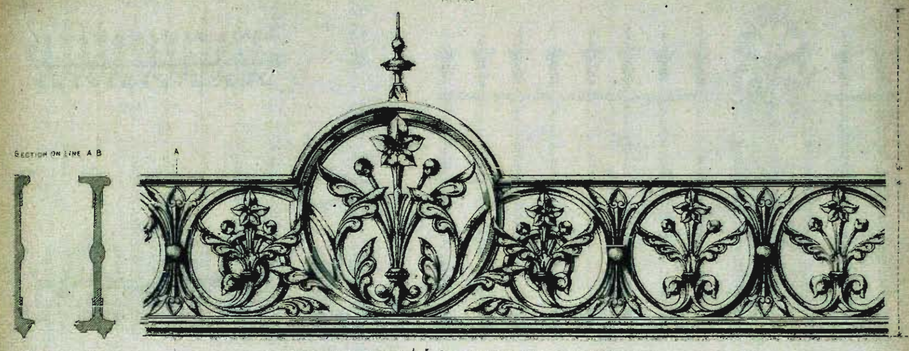
Nº 208



Main Standard with Backstay priced separately. for Backstay See No. 208 page 273

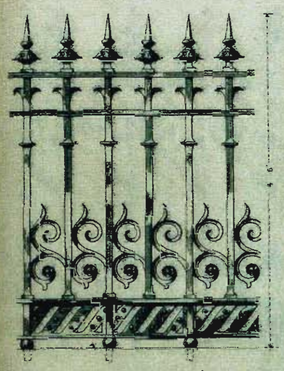
SCALE

Nº 149

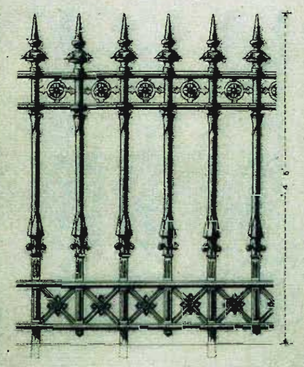


Centre feature repeats every 12' 3" Other distances *to order*. See also page 272

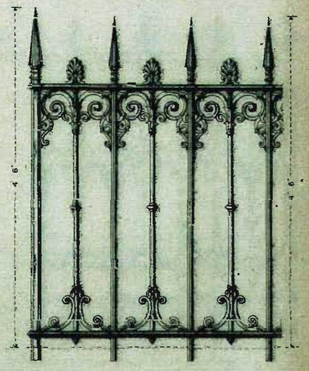
Nº 1013



Nº 1063

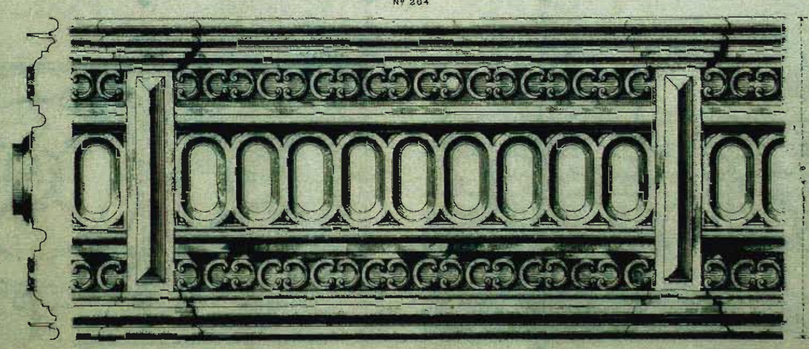


Nº 384



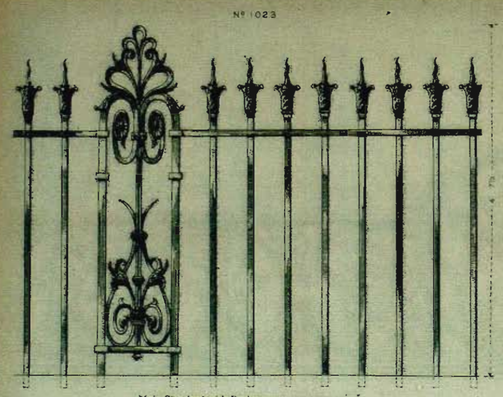
Main Standard priced separately.

Nº 204



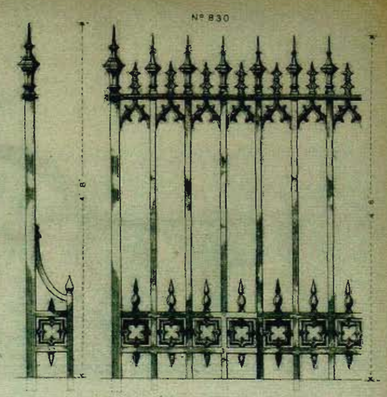
SCALE

MACFARLANE'S CASTINGS — RAILING



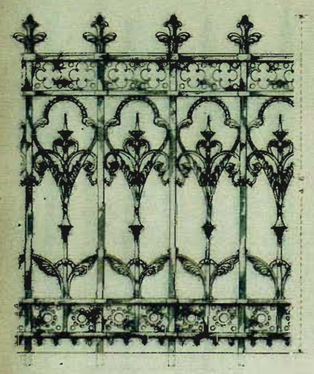
Nº 1023

Main Standard with Backstay repeats every 10 0.

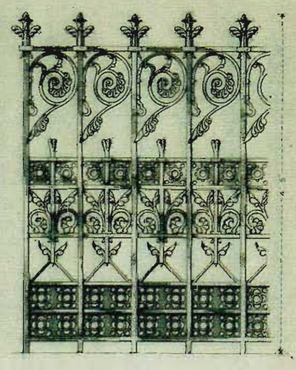


Nº 830

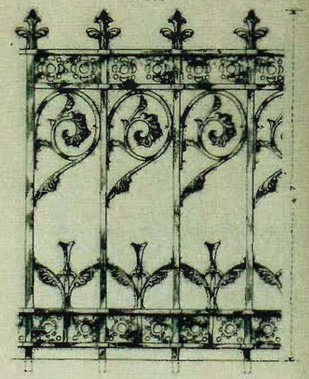
Main Standard with Backstay priced separately.



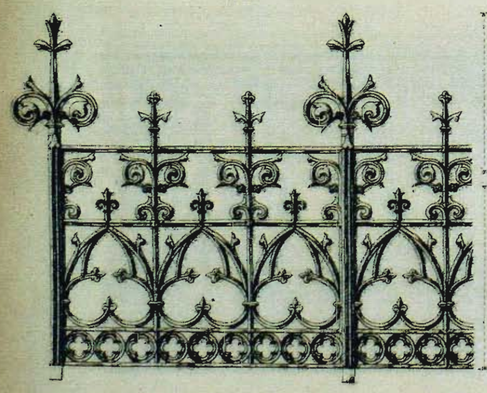
Nº 874



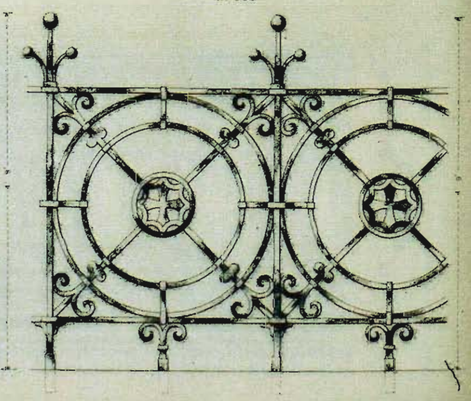
Nº 1131



Nº 836



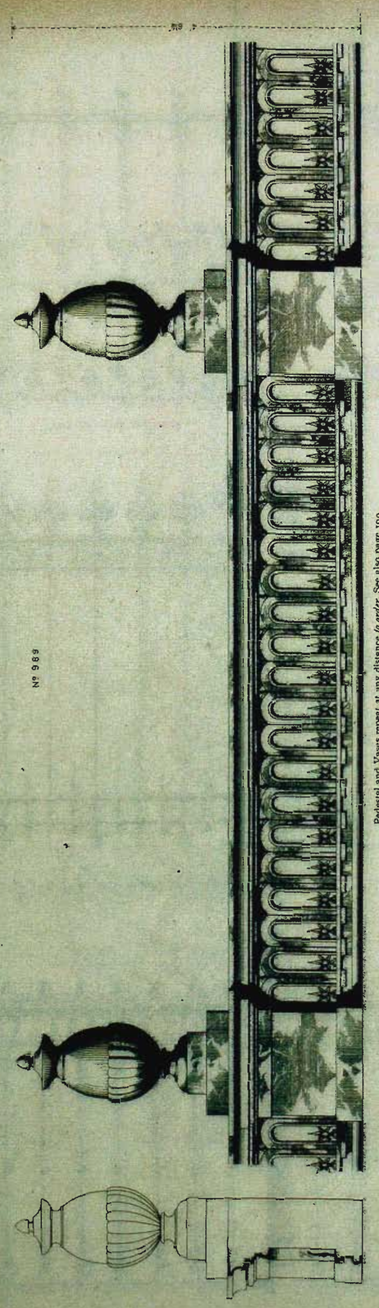
Nº 43



Nº 998

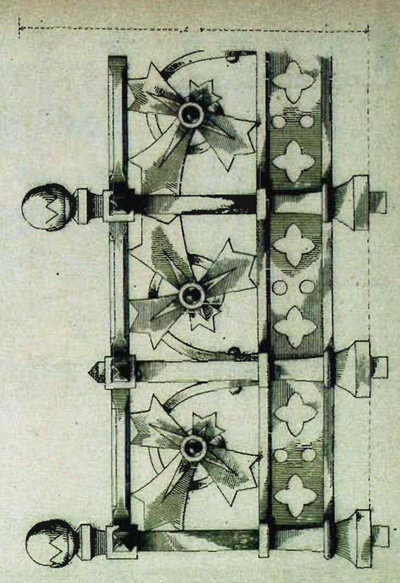
SCALE 2 3 4 FEET

MACFARLANE'S CASTINGS — RAILING

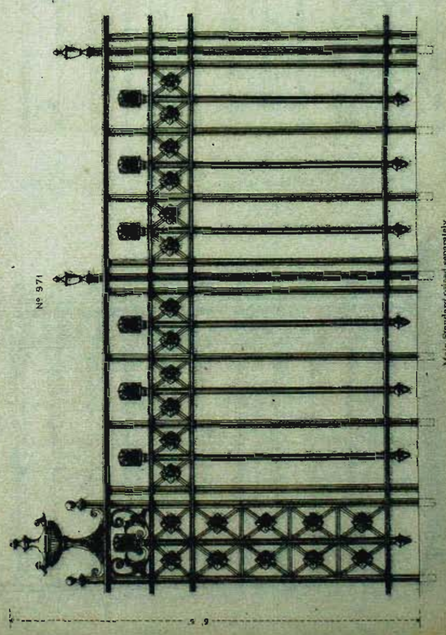


Nº 989

Pedestal and Vases repeat at any distance *to order*. See also page 199

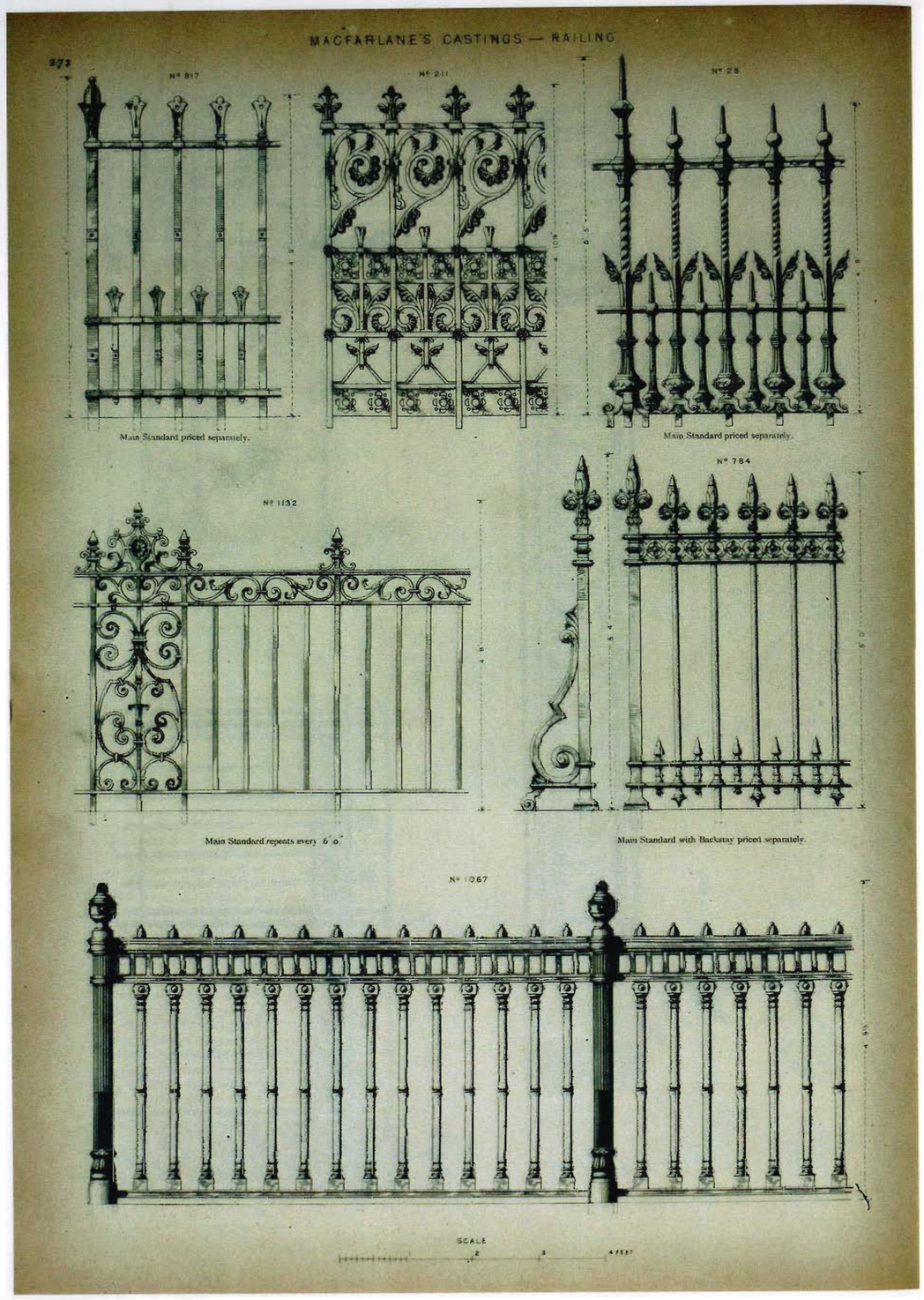


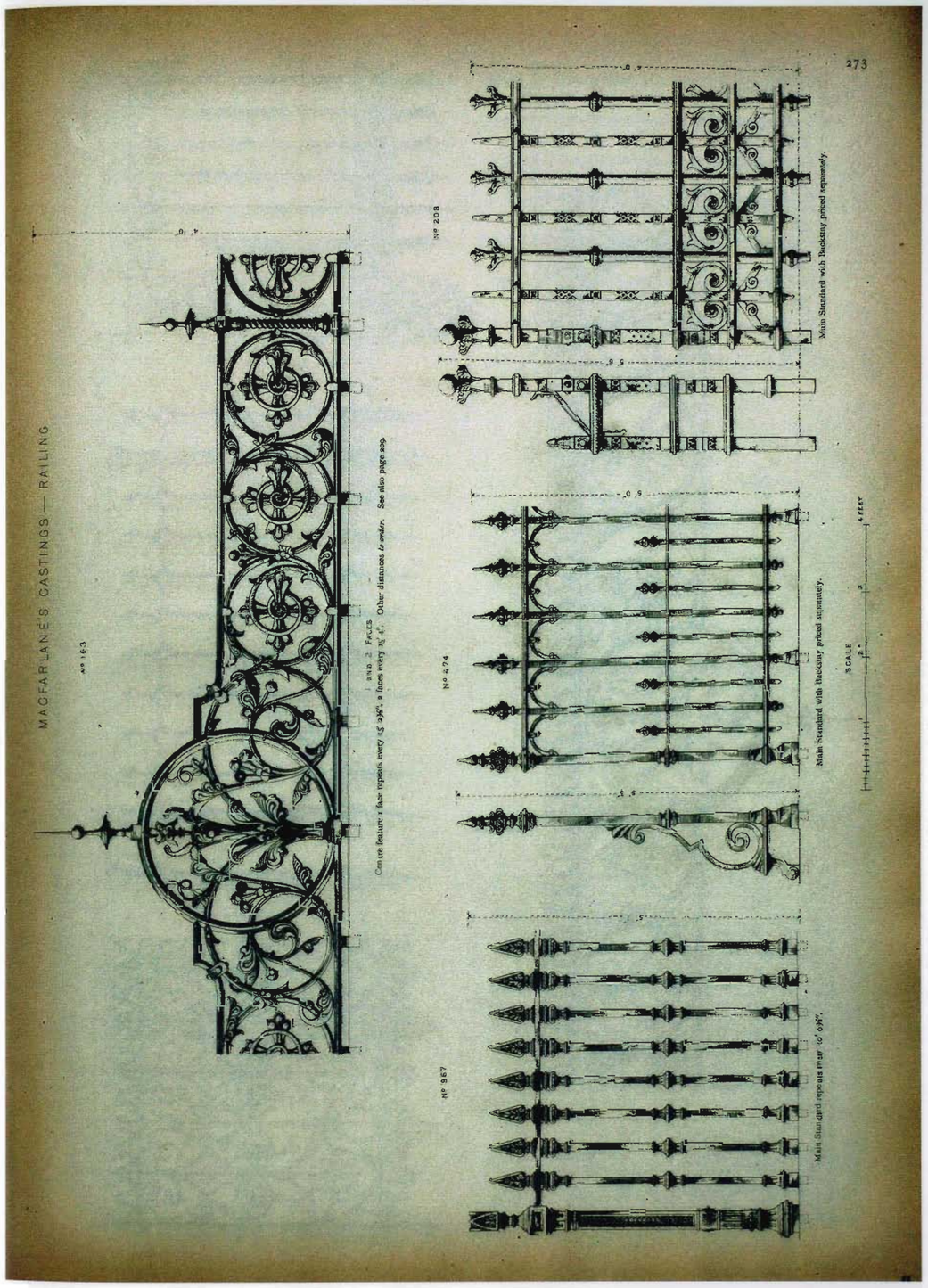
Nº 433

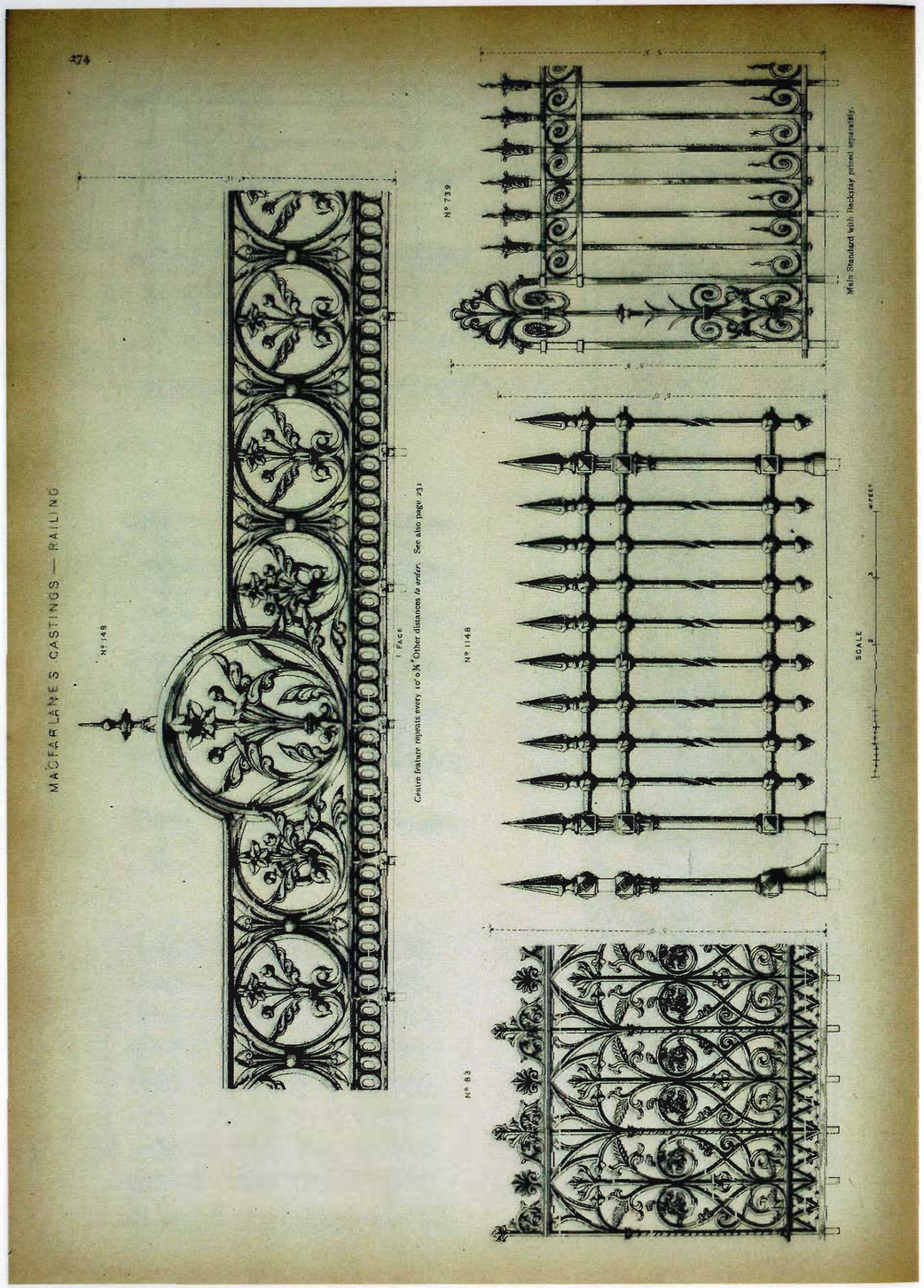


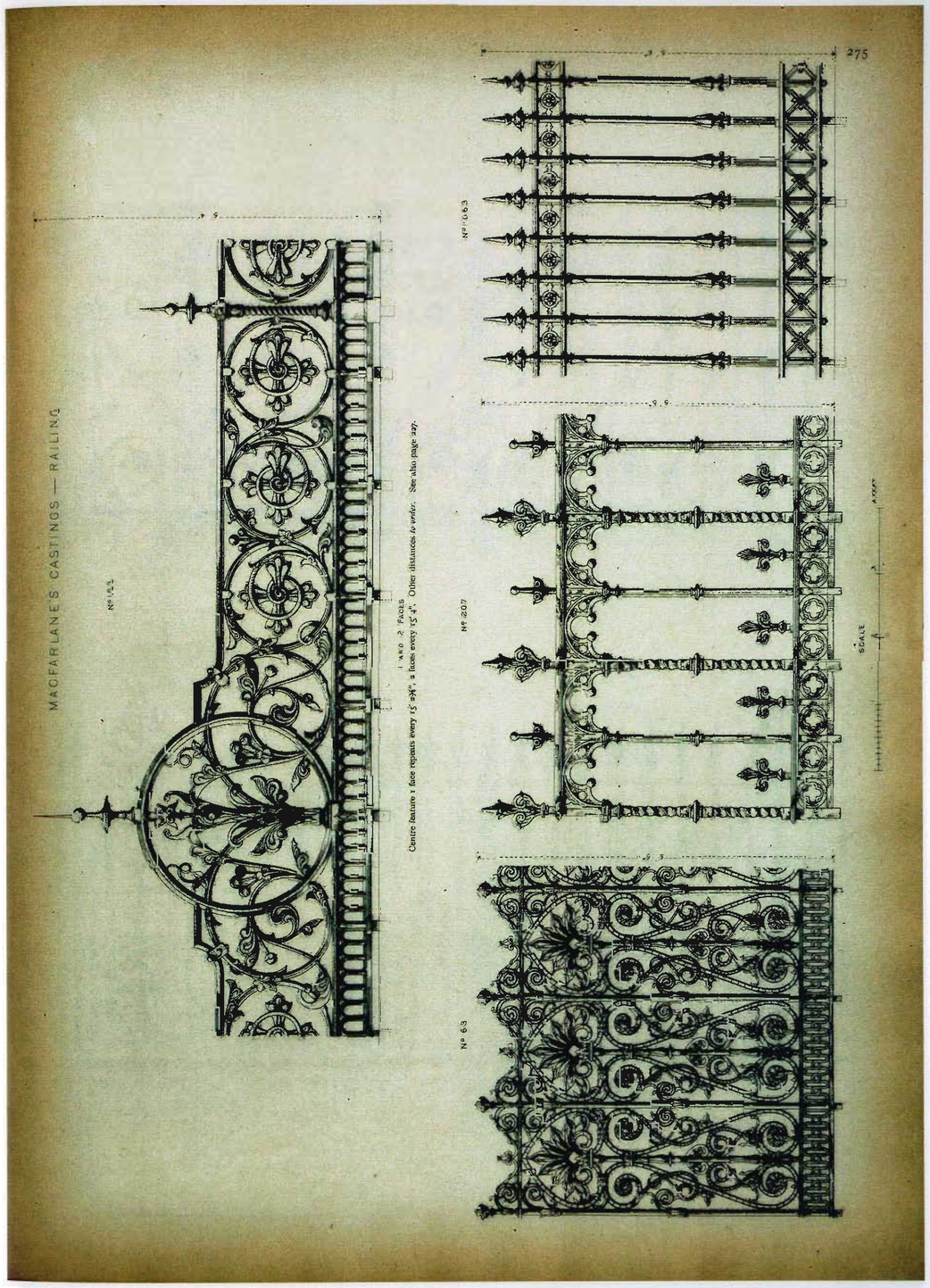
Nº 971

Main Standard priced separately.


MACFARLANE'S CASTINGS — RAILING
272
Nº 817
Nº 211
Nº 28
Main Standard priced separately.
Main Standard priced separately.
Nº 1132
Nº 784
Main Standard repeats every 6' 0"
Main Standard with Backstay priced separately.
Nº 1067
SCALE
2
3
4 FEET

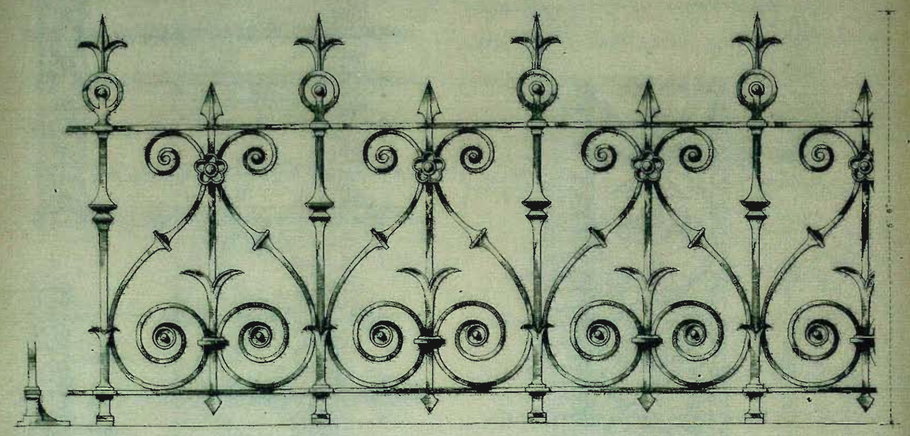

MACFARLANE'S CASTINGS — RAILING
273
Nº 163
Nº 208
Main Standard with Backstay priced separately.
Nº 474
Main Standard with Backstay priced separately.
SCALE
1 FEET
Nº 987
Main Standard repeats every 1'0" 0/8".


274
MACFARLANE'S CASTINGS — RAILING
Nº 149
1 FACE
Centre feature repeats every 10'0¾". Other distances to order. See also page 231
Nº 739
Main Standard with Rackstay pricket separately.
Nº 1148
SCALE
Nº 83

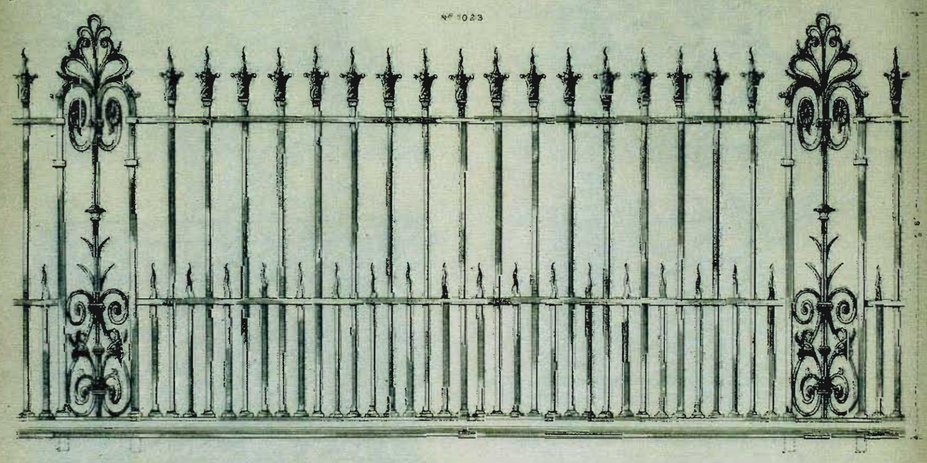

275
MACFARLANE'S CASTINGS — RAILING
Nº 1063
Nº 1063
1 AND 2 FACES
Centre feature 1 face repeats every 15' 2¾", 2 faces every 15' 4". Other distances to order. See also page 227.
Nº 207
SCALE
Nº 63

MACFARLANE'S CASTINGS — RAILING

Nº 842



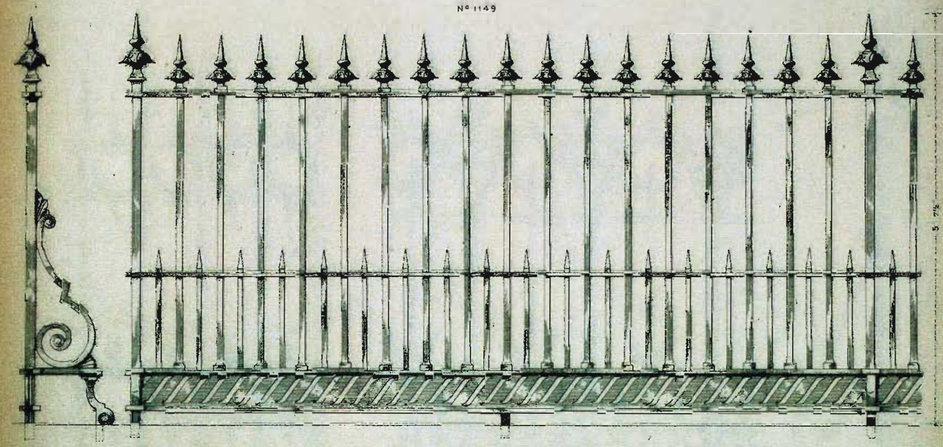
Nº 1023



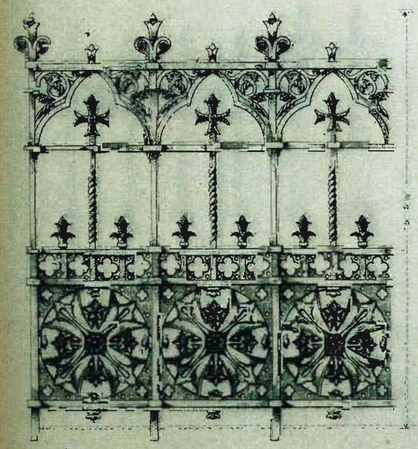
SCALE

MACFARLANE'S CASTINGS — RAILING

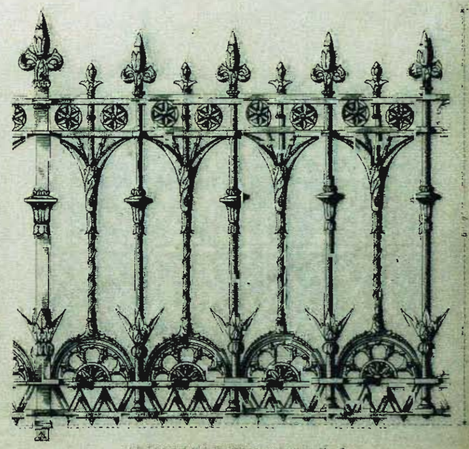
Nº 1149



Nº 457



Nº 773



Main Standard with Backstay repeats every 8' 10"

SCALE

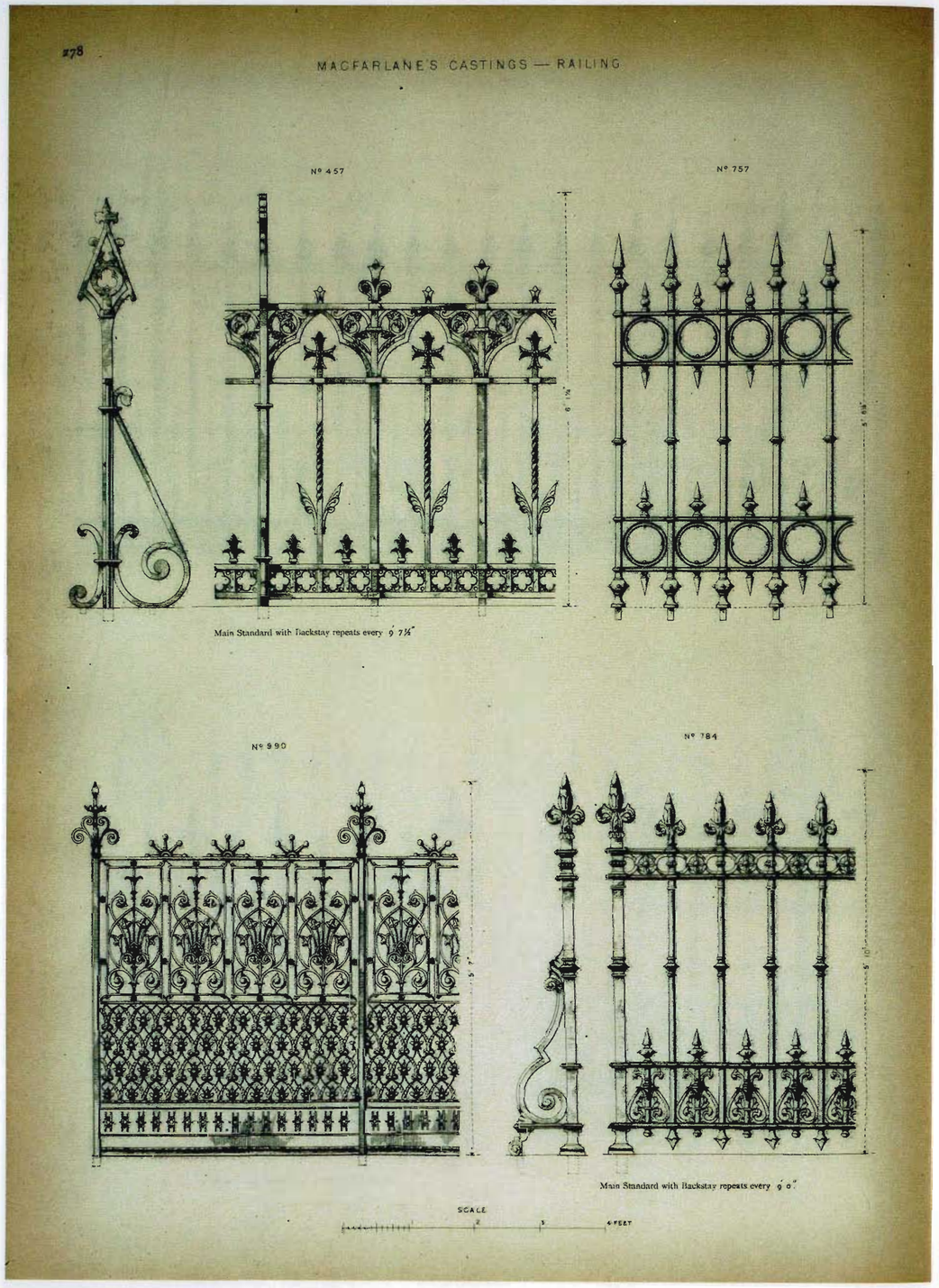
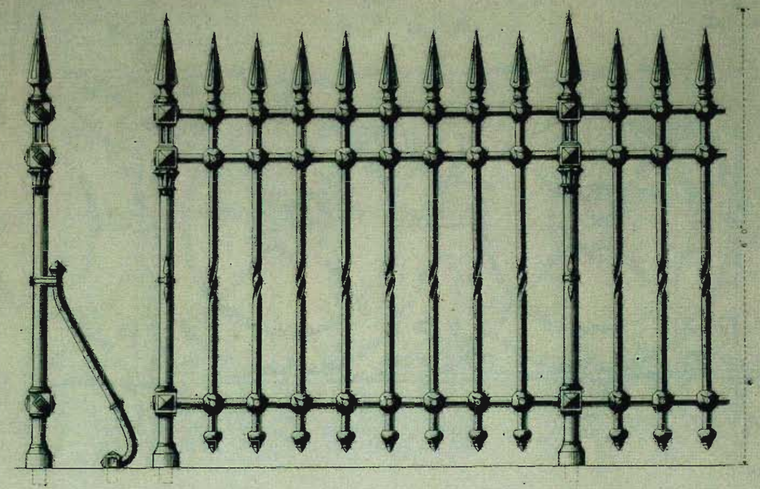


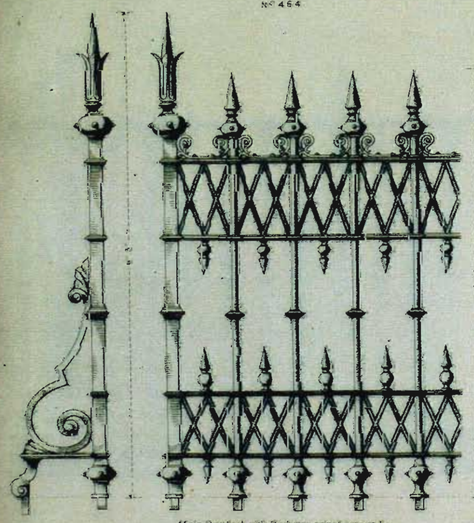
ILLUSTRATION MISSING FROM THE ORIGINAL

MACFARLANE'S CASTINGS — RAILING

Nº 1148

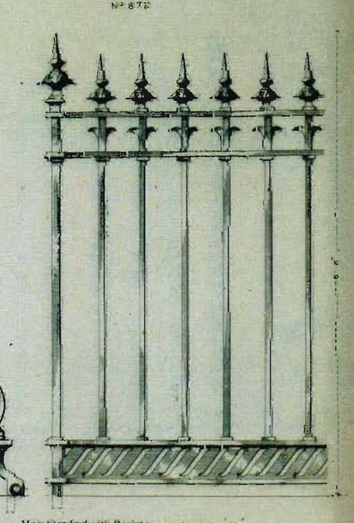


Nº 464



Main Standard with Backstay painted separately

Nº 872

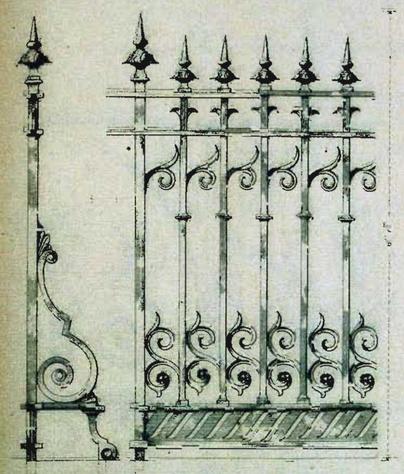


Main Standard with Backstay repeats every 9' 10"

SCALE

MACFARLANE'S CASTINGS — RAILING

Nº 1013

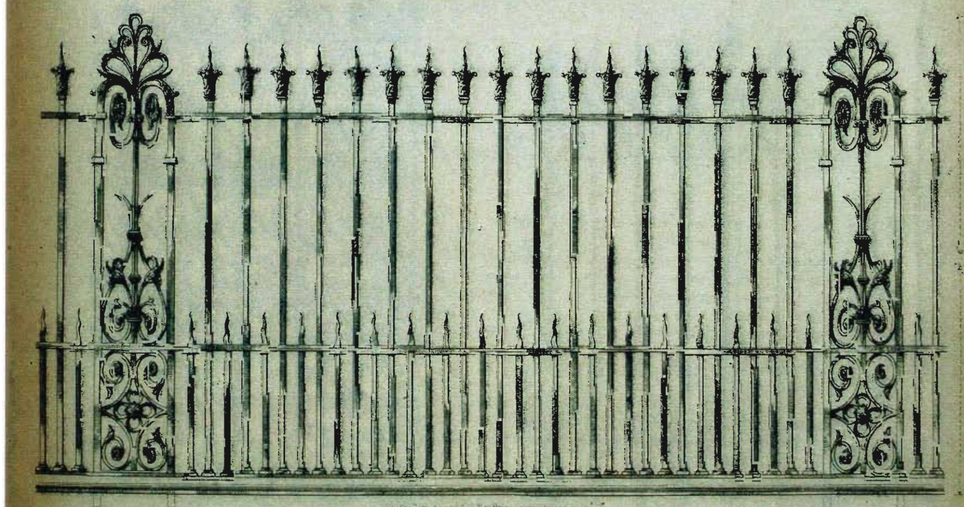


Main Standard with Backstay repeats every 9' 10"



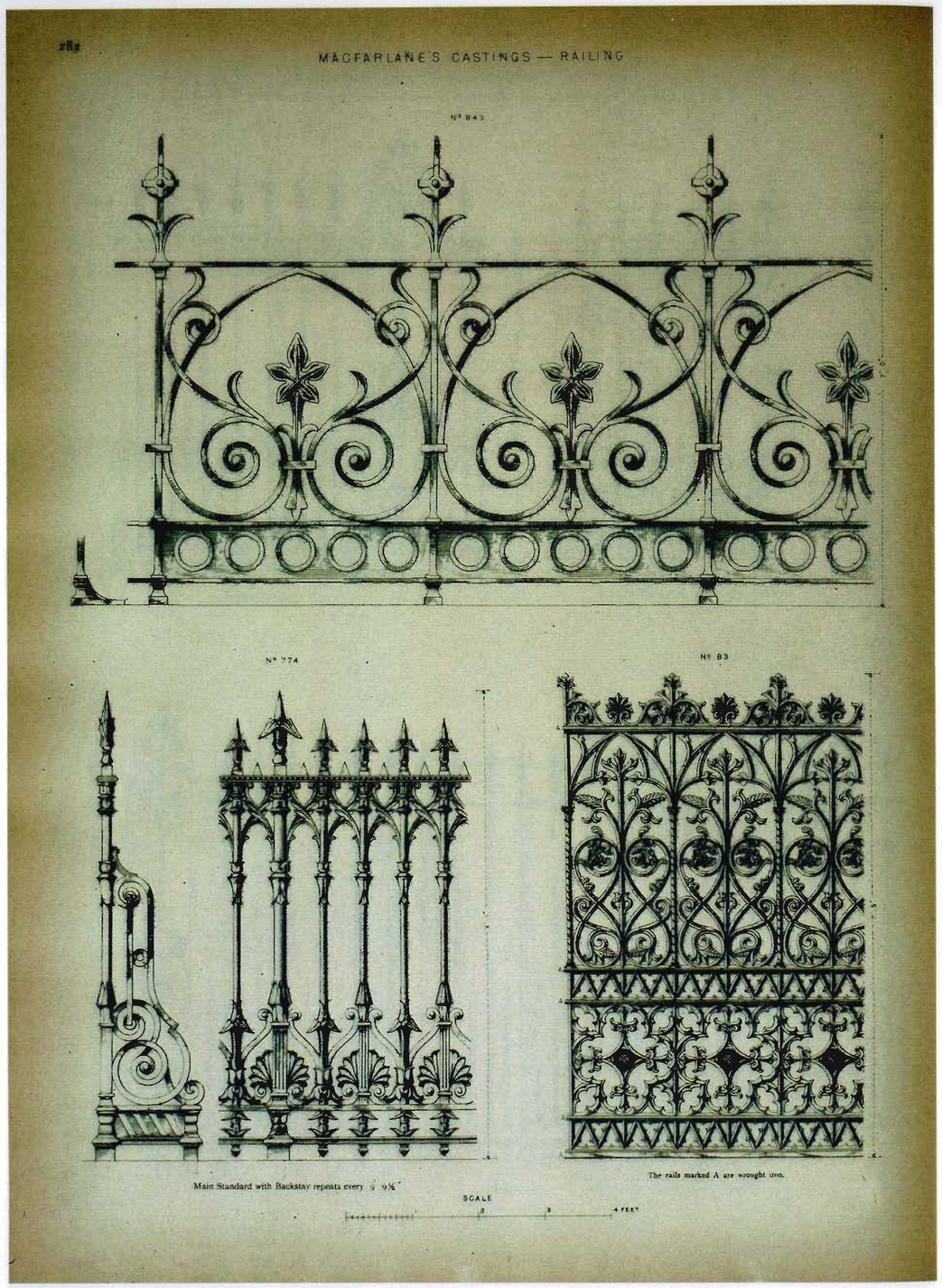
Main Standard with Backstay repeats every 10' 0"

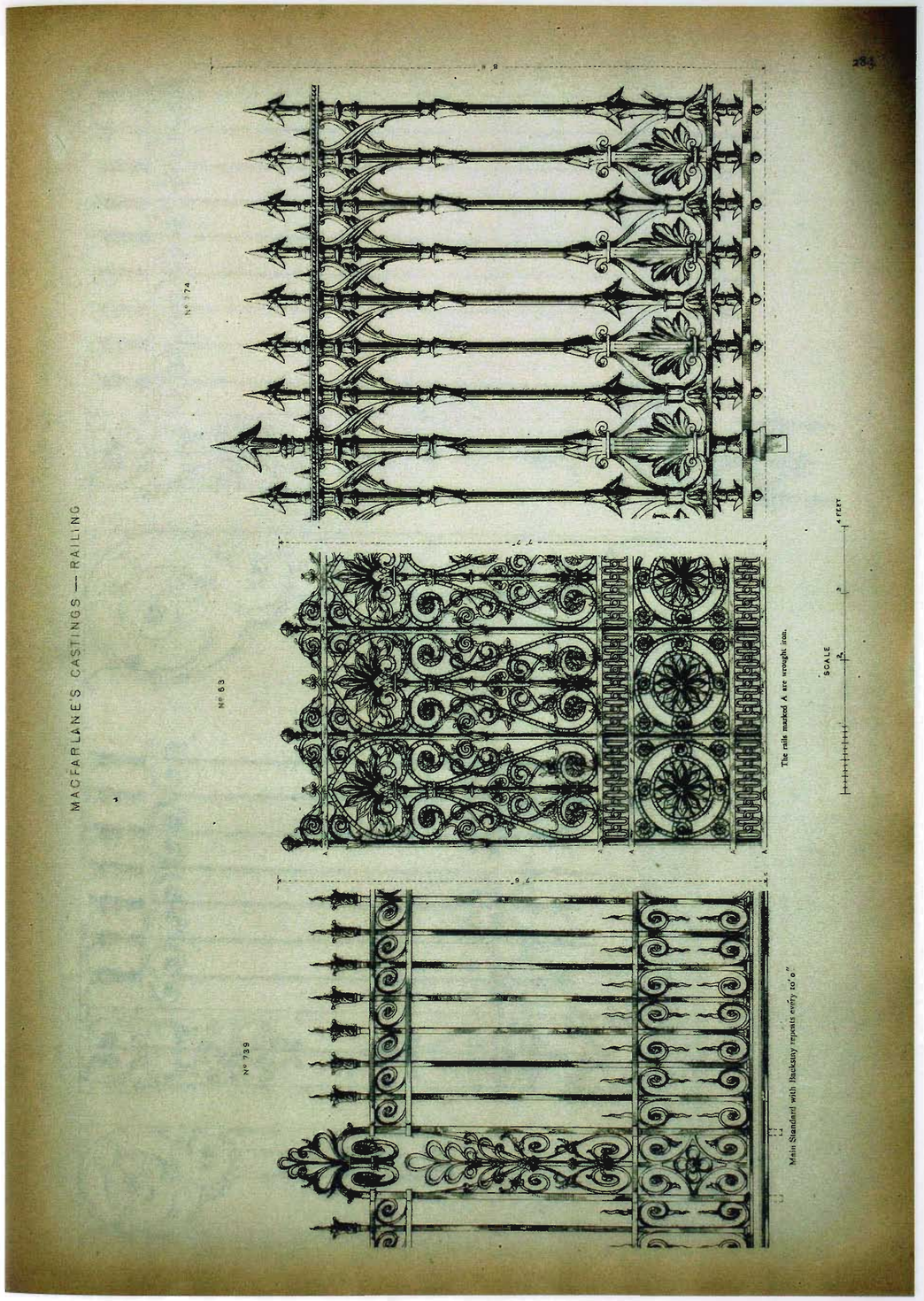
Nº 1023

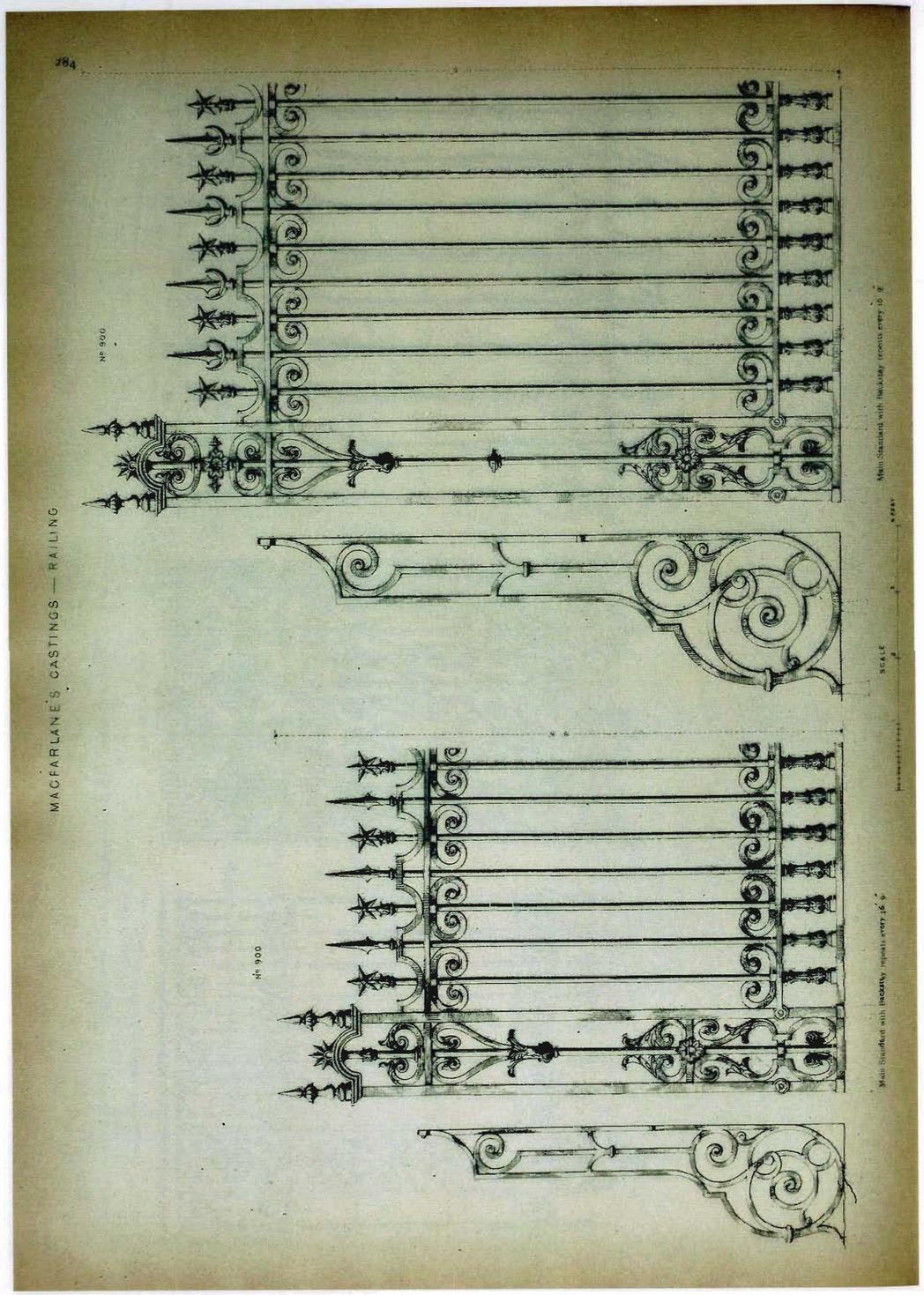


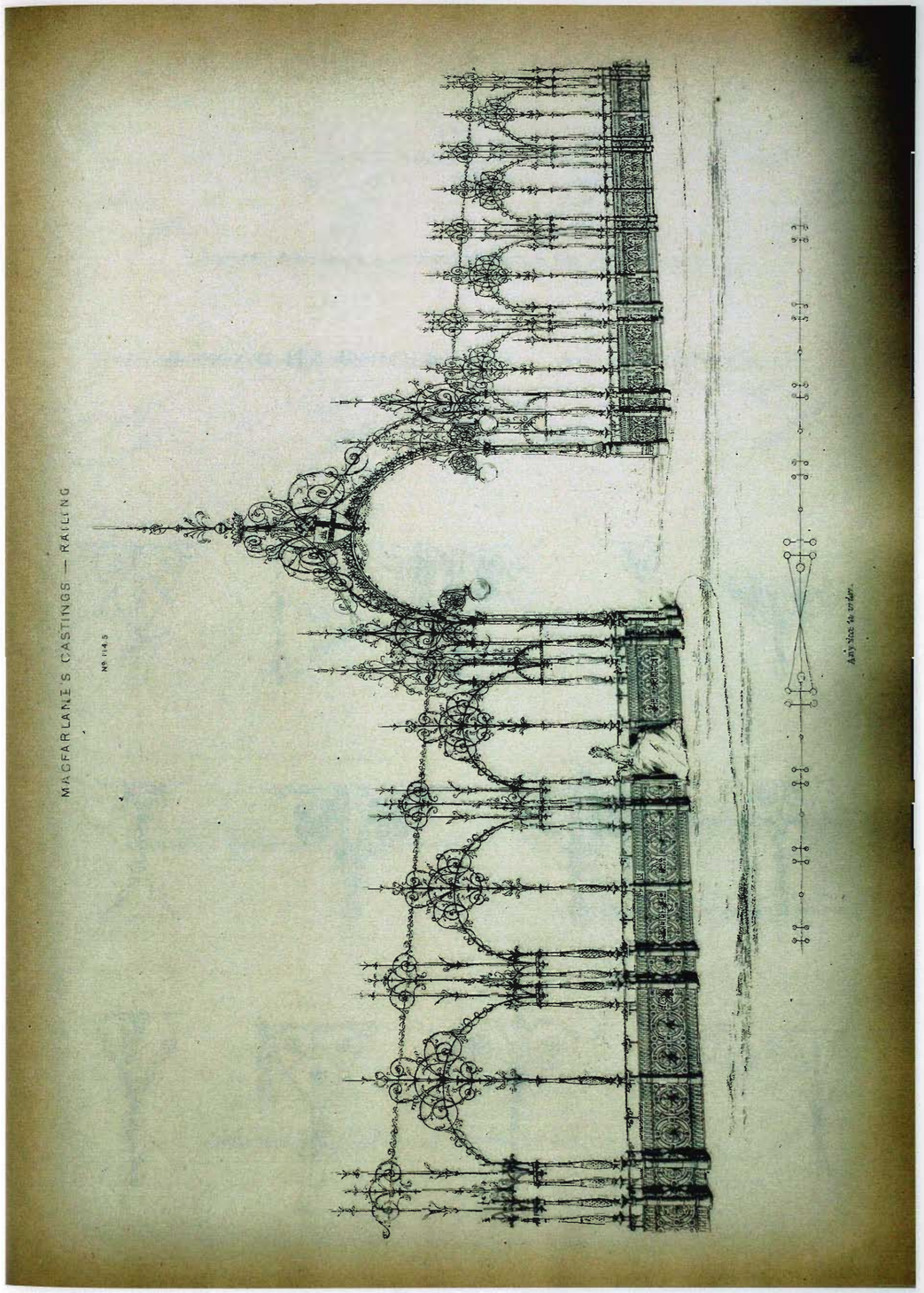
Main Standard with Backstay repeats every 10' 0"

SCALE


282
MACFARLANE'S CASTINGS — RAILING
Nº 843
Nº 774
Nº 83
Main Standard with Backstay repeats every 9 9½"
The rails marked A are wrought iron.
SCALE
2
3
4 FEET

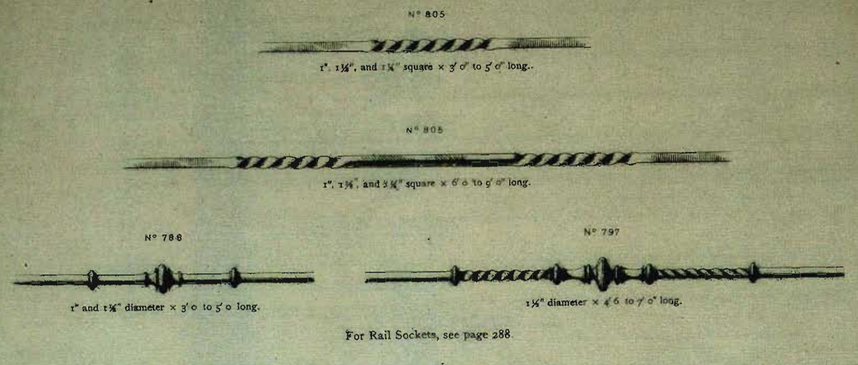

283
MACFARLANE'S CASTINGS — RAILING
Nº 774
Nº 83
Nº 739
The rails marked A are wrought iron.
Main Standard with Backstay repeats every 10' 0"
SCALE
2
4 FEET


284
MACFARLANE'S CASTINGS — RAILING
Nº 900
SCALE
Main Standard with Stockaby repeats every 16' 0"
Nº 900
Main Standard with Stockaby repeats every 16' 0"


MACFARLANE'S CASTINGS — RAILING
Nº 1145
Any size to order.

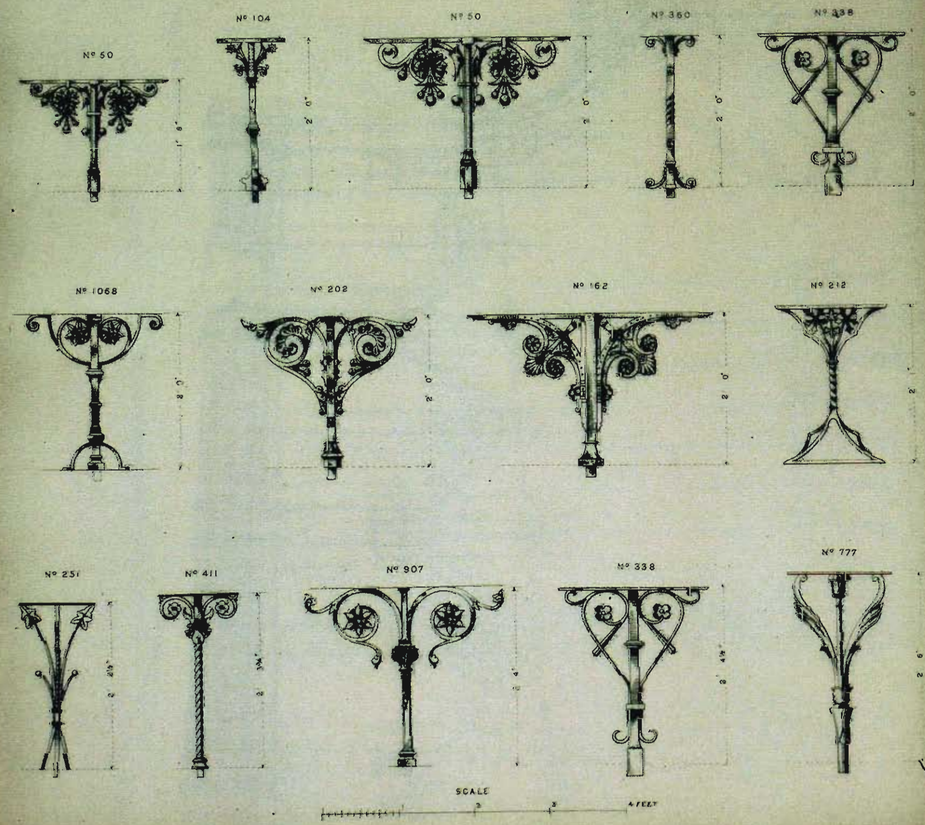
286

MACFARLANE'S CASTINGS — BAR RAILS

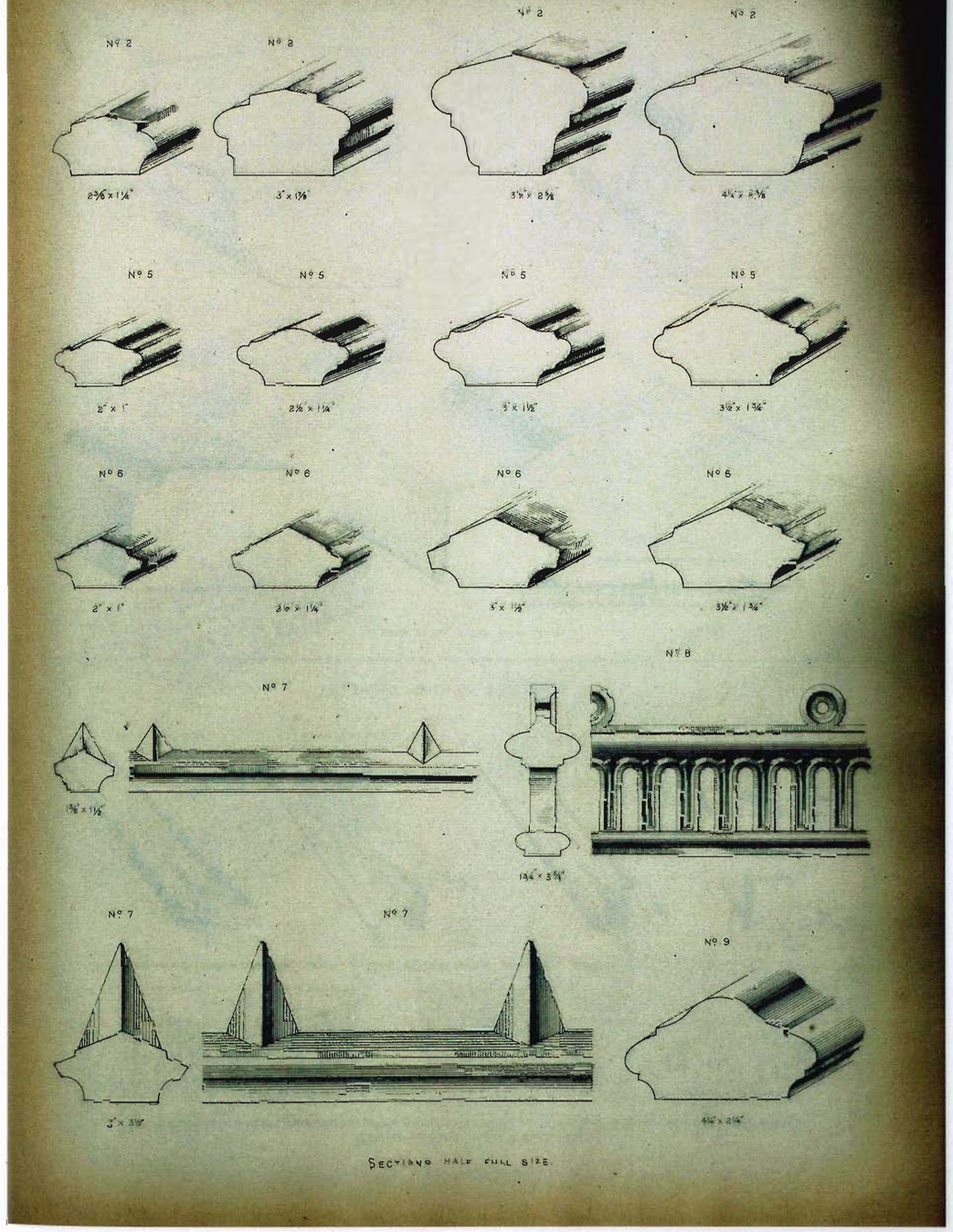


For Rail Sockets, see page 288.

MACFARLANE'S ALTAR RAIL STANDARDS

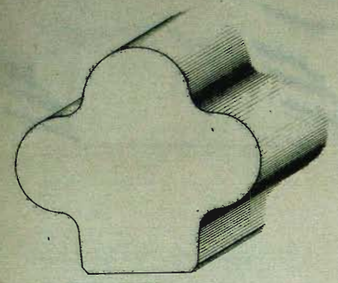


MACFARLANE'S CASTINGS — HANDRAILS



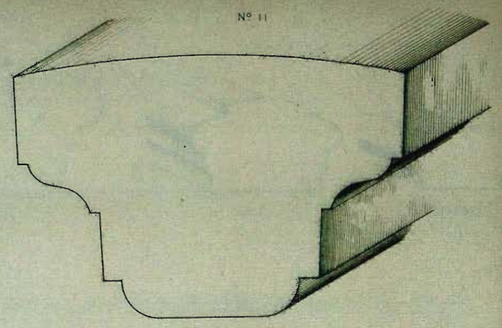
MACFARLANE'S CASTINGS — HANDRAILS AND COPING

Nº 10



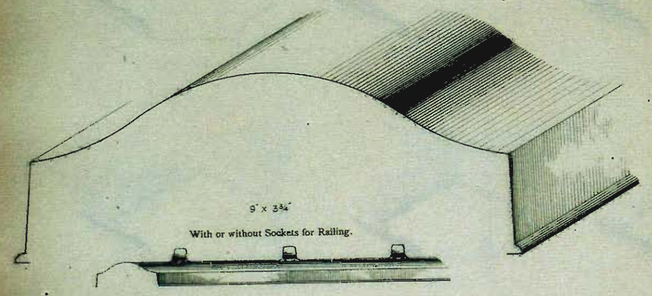
5" x 4½"

Nº 11



8" x 5¼"

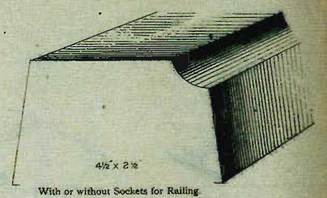
Nº 12 WALL COPE



9" x 3¾"

With or without Sockets for Railing.

Nº 13 BASE RAIL



4½" x 2⅛"

With or without Sockets for Railing.

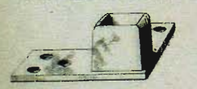
SECTIONS HALF FULL SIZE

MACFARLANE'S RAILING SOCKETS.

PLAT SOCKET

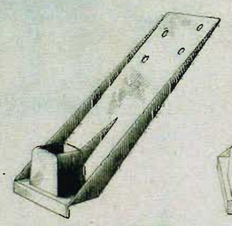


PLAT CORNER SOCKET

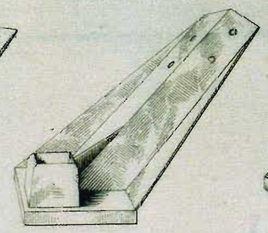


¾", 1", 1¼", 1½", and 2".

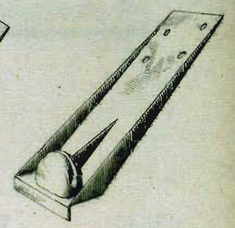
EAVE SOCKET



EAVE CORNER SOCKET



EAVE DOVETAIL



1¼", 1½", and 2" to the pitches of roof shown on page 78. Other pitches to order. See examples of application to buildings, page 77.

PLAT DOVETAIL



RIDGEPOLL DOVETAIL



DOVETAIL BATT



See examples of application, page 77.

RAIL SOCKET



1" x ⅛", and 1¼".

SOCKET BATT



¾", ⅞", 1", 1¼", and 1½".

SUNK SOCKET



¾", ⅞", 1", 1¼", and 1½".

The Rail Socket, Socket Batt, and Sunk Socket, admit of Railing bars being tightly wedged into their place, and yet leave them removable when necessary, without injuring the stonework.

SCALE QUARTER FULL SIZE

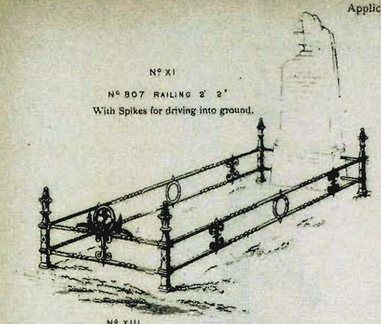
MACFARLANE'S CASTINGS — EXAMPLES

Application of Railing to Tombs.

Nº XI

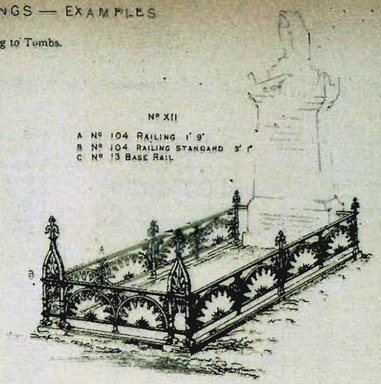
Nº 807 RAILING 2' 2"

With Spikes for driving into ground.



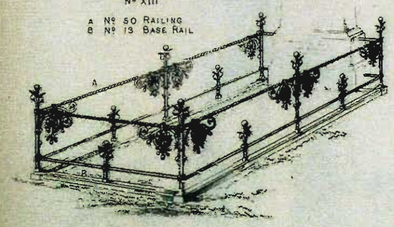
Nº XII

A Nº 104 RAILING 1' 9"
B Nº 104 RAILING STANDARD 3' 1"
C Nº 13 BASE RAIL



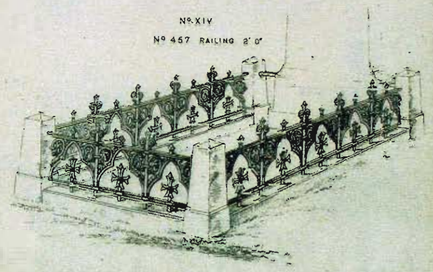
Nº XIII

A Nº 50 RAILING
B Nº 13 BASE RAIL



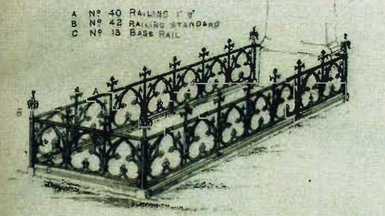
Nº XIV

Nº 457 RAILING 2' 0"



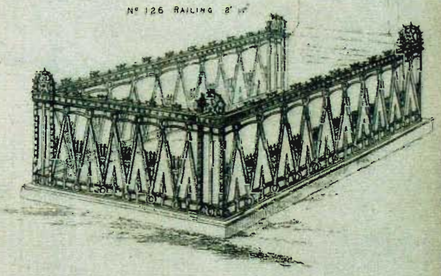
Nº XV

A Nº 40 RAILING 1' 9"
B Nº 42 RAILING STANDARD
C Nº 13 BASE RAIL



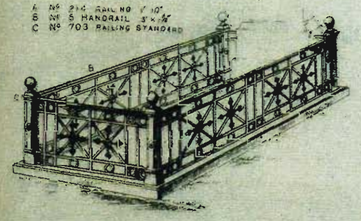
Nº XVI

Nº 126 RAILING 8' 0"



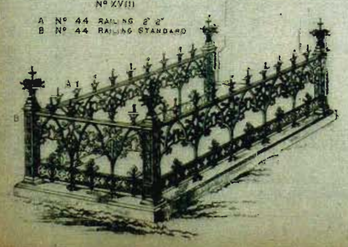
Nº XVII

A Nº 210 RAILING 1' 10"
B Nº 5 HANDRAIL 5" x 3"
C Nº 703 RAILING STANDARD



Nº XVIII

A Nº 44 RAILING 2' 6"
B Nº 44 RAILING STANDARD



Nº XIX

A Nº 149 RAILING 4' 5"
B Nº 689 RAILING STANDARD



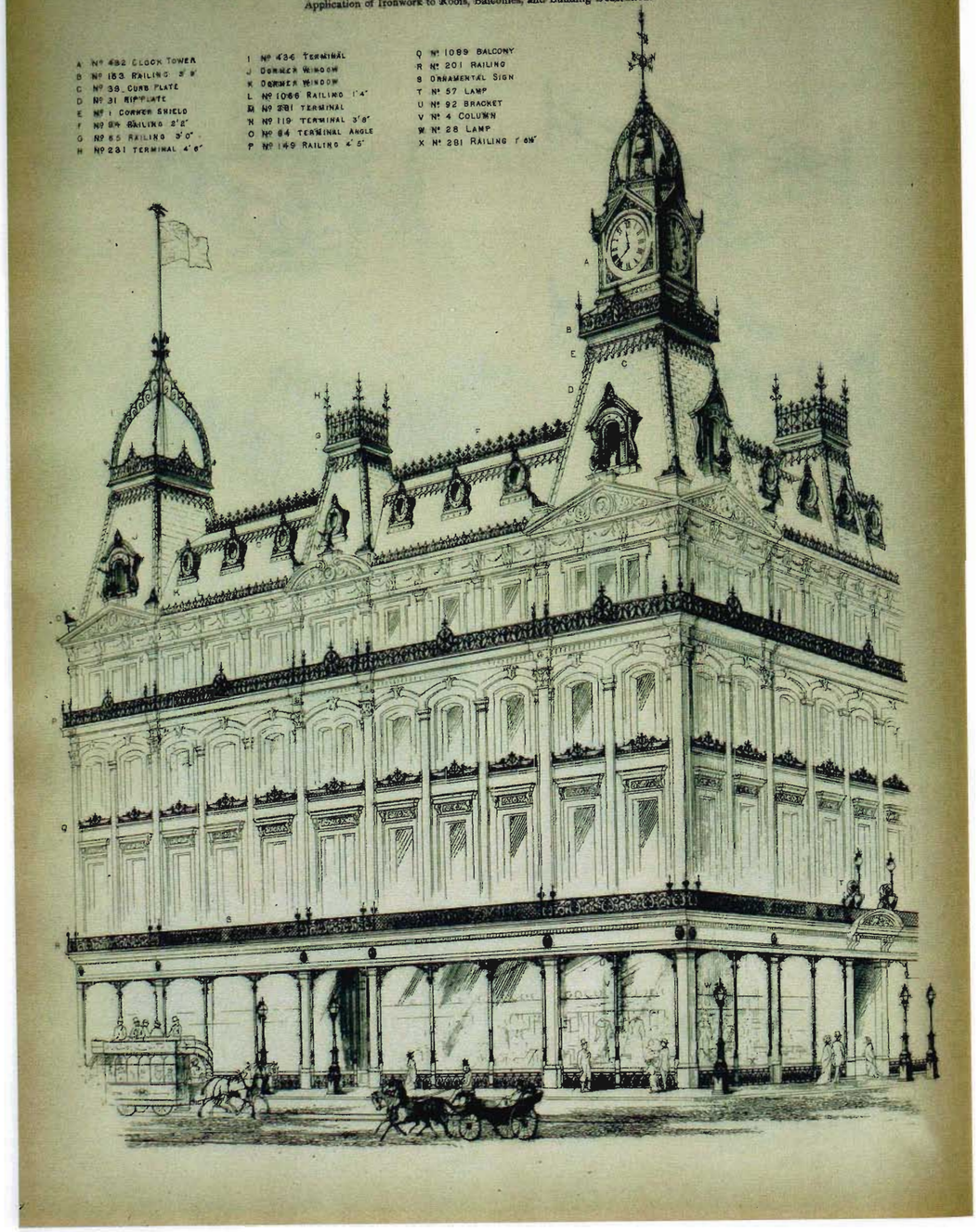
290

MACFARLANE'S CASTINGS — EXAMPLES

Nº XX

Application of Ironwork to Roofs, Balconies, and Building Decoration.

A Nº 482 CLOCK TOWER
B Nº 183 RAILING 3'9"
C Nº 38 CURB PLATE
D Nº 31 RIP PLATE
E Nº 1 CORNER SHIELD
F Nº 84 RAILING 2'6"
G Nº 85 RAILING 3'0"
H Nº 231 TERMINAL 4'6"
I Nº 436 TERMINAL
J DORMER WINDOW
K DORMER WINDOW
L Nº 1066 RAILING 1'4"
M Nº 281 TERMINAL
N Nº 119 TERMINAL 3'8"
O Nº 84 TERMINAL ANGLE
P Nº 149 RAILING 4'5"
Q Nº 1089 BALCONY
R Nº 201 RAILING
S ORNAMENTAL SIGN
T Nº 57 LAMP
U Nº 92 BRACKET
V Nº 4 COLUMN
W Nº 28 LAMP
X Nº 281 RAILING 1'6"



291

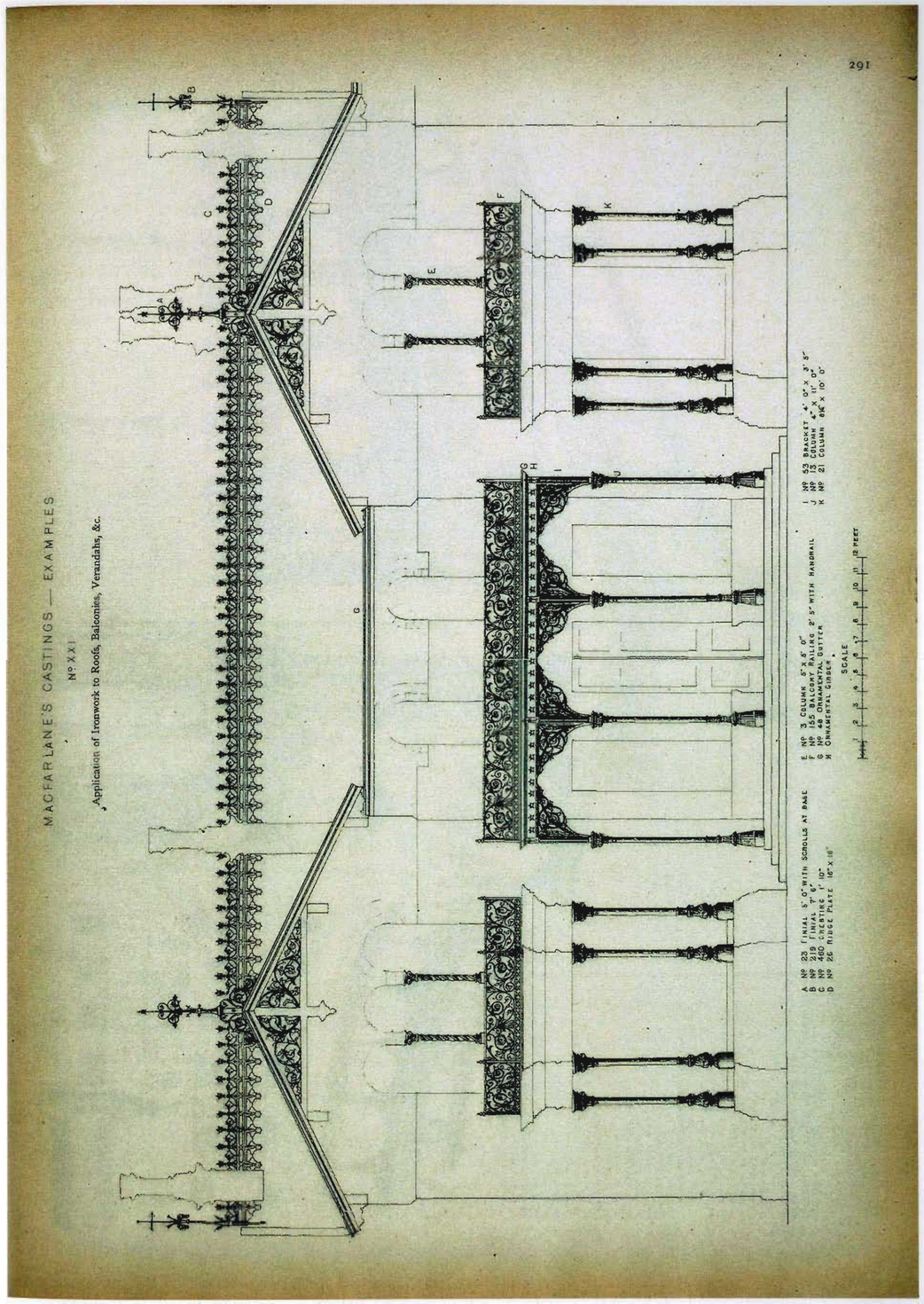
MACFARLANE'S CASTINGS — EXAMPLES

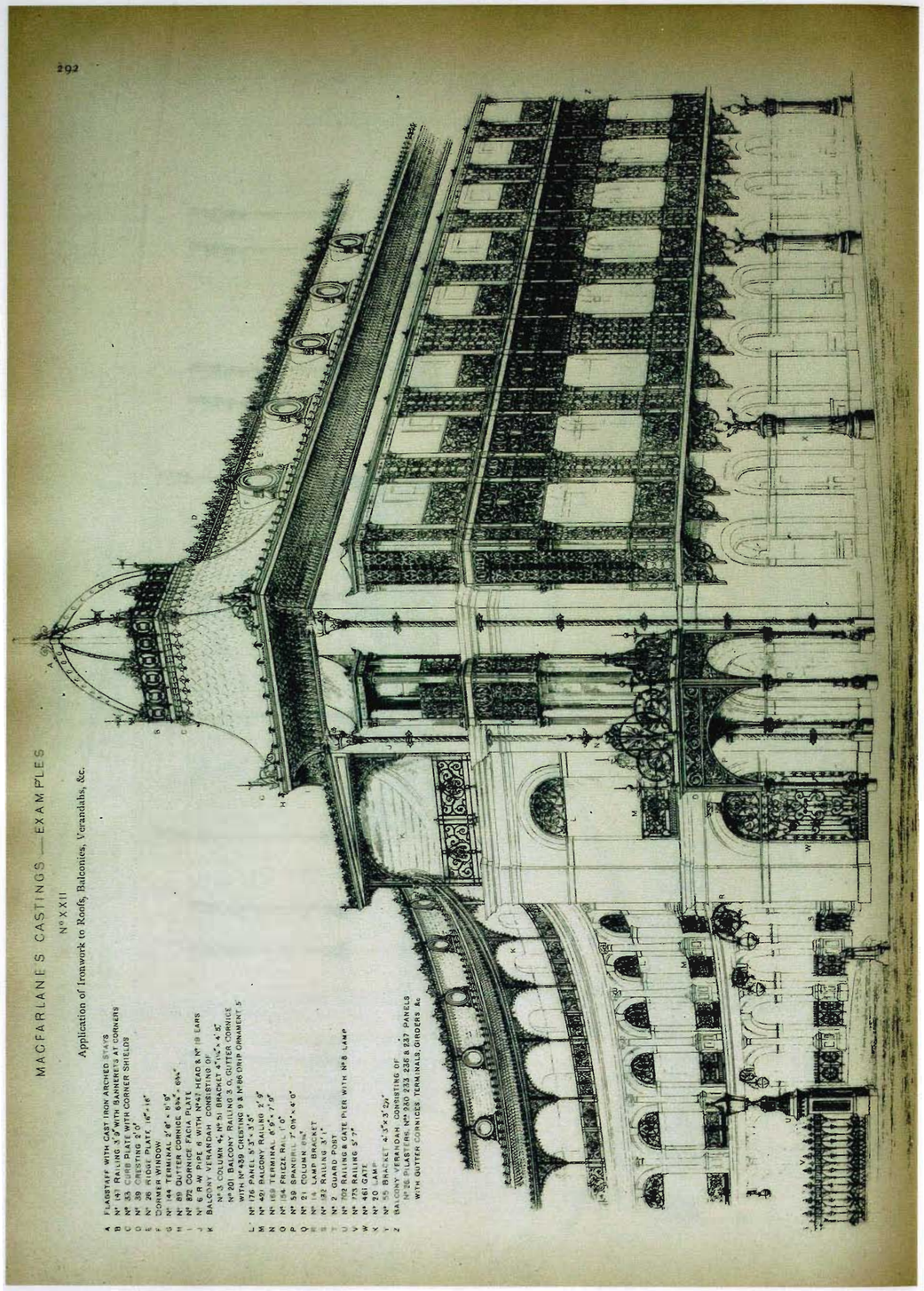
Nº XXI

Application of Ironwork to Roofs, Balconies, Verandahs, &c.

A Nº 223 FINIAL 5'0" WITH SCROLLS AT BASE
B Nº 218 FINIAL 7'6"
C Nº 466 FINIAL 10'0"
D Nº 26 RIDGE PLATE 10"x 18"
E Nº 3 COLUMN 5"X 5' 0"
F Nº 155 BALCONY RAILING 2'5" WITH HANDRAIL
G Nº 46 CORNER SHIELD
H ORNAMENTAL GIRDER
I Nº 53 BRACKET 4'-0" X 3'5"
J Nº 13 COLUMN 4"X 11'0"
K Nº 21 COLUMN 6"X 10'0"

SCALE 1 2 3 4 5 6 7 8 9 10 11 12 FEET





MACFARLANE'S CASTINGS — EXAMPLES

N° XXII

Application of Ironwork to Roofs, Balconies, Verandahs, &c.

A FLAGSTAFF WITH CAST IRON ARCHED STAYS
B N° 141 RAILING 3'.0" WITH BANNERETS AT CORNERS
C N° 33 CURB PLATE WITH CORNER SHIELDS
D N° 39 CRESTING 2'.0"
E N° 76 RIDGE PLATE 18"-16"
F N° 144 TERMINAL 2'.8" × 11'.9"
G N° 89 GUTTER CORNICE 6¾" - 6¾"
H N° 872 CORNICE FACIA PLATE
I N° 6 R.W. PIPE & WITH N°47 HEAD & N° 18 LARS
J N° 53 COLUMN 4'.5½" CORBEL 4'.10" × 4'.5"
K N° 51 COLUMN 4'.5½" BRACKET 4'.10" × 4'.5"
N° 201 BALCONY RAILING 3'.0, GUTTER CORNICE WITH N° 439 CRESTING 9 & N° 86 ORNP ORNAMENT 5
L N° 176 PANEL 5'.3" - 3'.5"
M N° 401 BALCONY RAILING 3'.9"
N N° 168 TERMINAL 8'.6" - 7'.6"
O N° 158 FINIAL 1'.0" - 1'.3"
P N° 58 SPANDRIL 1'.0½" × 4'.0"
Q N° 21 COLUMN 10¾"
R N° 14 LAMP BRACKET
S N° 182 RAILING 3'.1"
T N° 2 GUARD POST
U N° 1 RAILING GATE PIER WITH N° 8 LAMP
V N° 175 RAILING 3'.7"
W N° 461 GATE
X N° 70 LAMP
Y N° 55 BRACKET 4'.5"×3'.5½"
Z BALCONY VERANDAH COMPOSITE OF N° 15 PANEL 1'.0" × 2'.3½" & 227 PANELS N° 15 PANEL 1'.0" × 2'.3½" & 228 PANELS WITH GUTTER CORNICES TERMINALS GIRDERS &c.

SECTION VI.—GATES.

FOR VILLAS, MANSIONS, COURTS, MARKETS, GARDENS, PARKS, CEMETERIES, &c.

Owing to the important positions occupied by Entrance Gates, and their nearness to the eye, the excellence both of the Design and of the Casting is a matter of special importance. The great variety of our Designs and sizes will enable our customers easily to select patterns to meet their requirements. Refer to Section V. for suitable Railings. We will be glad to furnish sketches combining the Gates and Railing on receiving the necessary particulars and an indication of the taste of the customer.

Please insert in Specification "**To be Macfarlane's Castings, from Saracen Foundry, Glasgow,**" to prevent an inferior article being supplied.

Single Leaved Gates, ... pages 293—300
Double Leaved Gates, ... „ 301—331
Arched Gateways, ... „ 329—332
Example No. XXIII.—Gate Opening Apparatus, ... „ 333

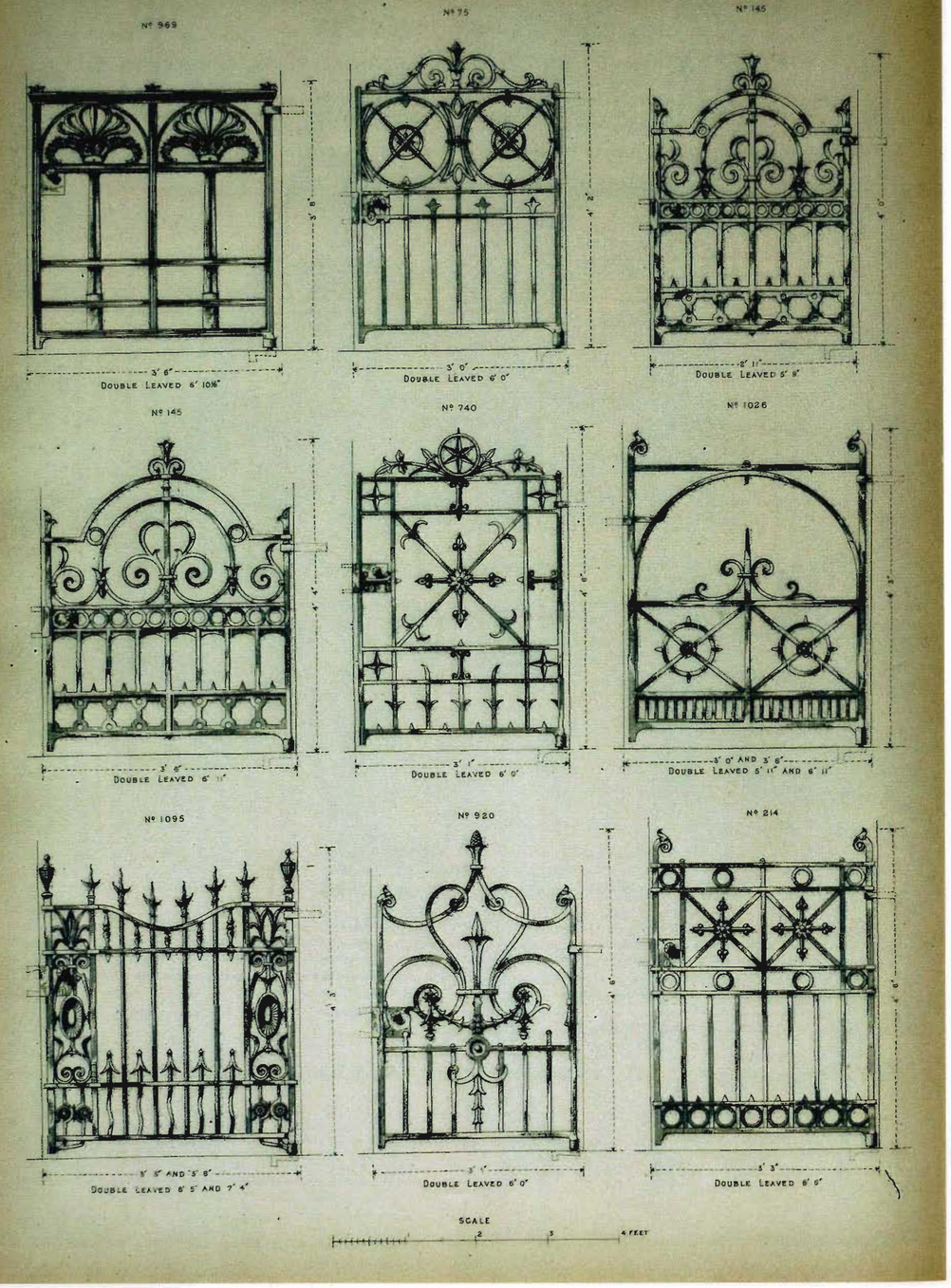
Railing and Gate Standards, ... pages 334—339
Road and Guard Posts, ... „ 340
Railing, see Section V., ... „ 172—292
Wall Coping, see Section V., ... „ 288

The Illustrations are arranged in the order of their heights, and to further facilitate selection we give the following

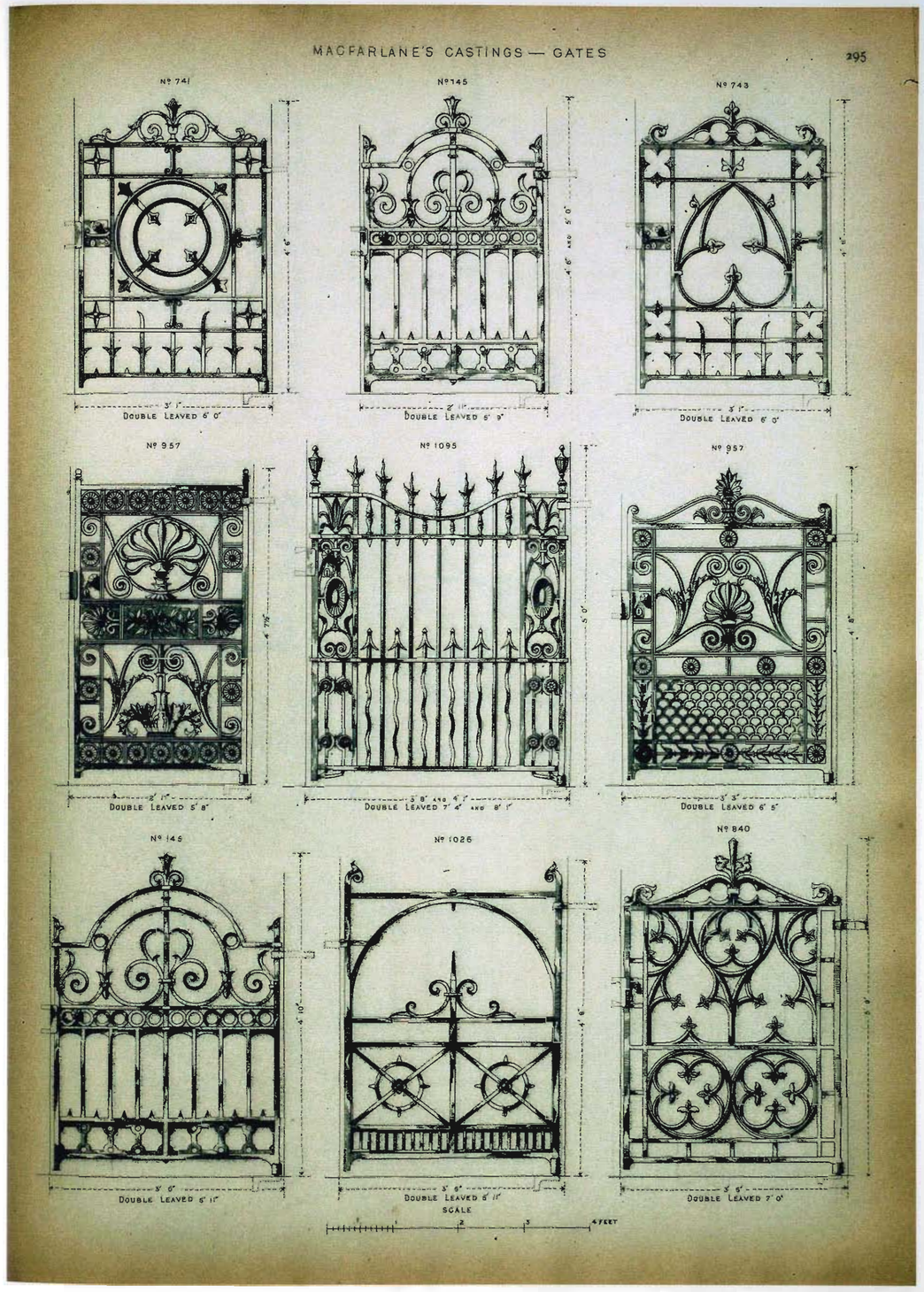
LIST OF GATES, ARRANGED IN THE ORDER OF THEIR WIDTHS.

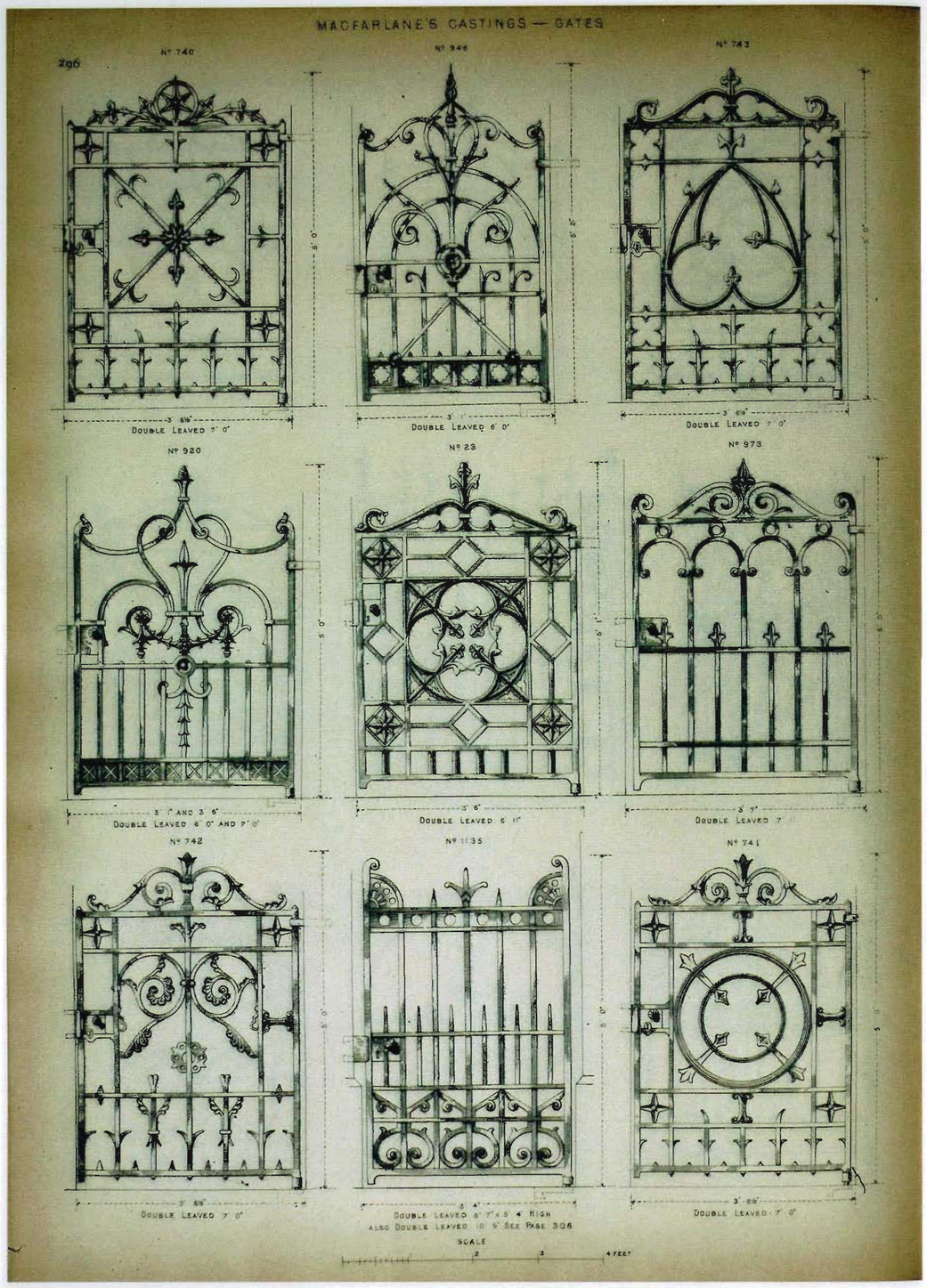
Width × Height.	No.	Page.
2' 11" × 4' 0"	145	294
2' 11" × 4' 6"	145	295
2' 11" × 4' 7¾"	957	295
2' 11" × 5' 0"	145	297
2' 11" × 5' 6"	957	301
3' 0" × 4' 2"	75	294
3' 0" × 4' 3"	1026	294
3' 1" × 4' 6"	740	294
3' 1" × 4' 6"	741	295
3' 1" × 4' 6"	743	295
3' 1" × 4' 6"	920	294
3' 1" × 5' 0"	920	296
3' 1" × 5' 2"	946	296
3' 1" × 6' 0"	809	304
3' 3" × 4' 3"	1095	294
3' 3" × 4' 6"	214	294
3' 3" × 4' 8"	957	295
3' 3" × 5' 4"	461	297
3' 4" × 5' 0"	1135	296
3' 4" × 6' 0"	211	303
3' 5" × 5' 5¾"	457	302
3' 5" × 5' 10"	457	306
3' 5" × 6' 10¾"	457	309
3' 6" × 3' 8"	969	294
3' 6" × 4' 3"	1026	294
3' 6" × 4' 4"	145	294
3' 6" × 4' 9"	1026	295
3' 6" × 4' 10"	145	295
3' 6" × 5' 0	840	295
3' 6" × 5' 0"	920	296
3' 6" × 5' 1"	23	296
3' 6" × 5' 2"	946	297
3' 6" × 5' 4"	145	297
3' 6" × 5' 6"	189	297
3' 6" × 5' 6"	920	297
3' 6" × 5' 9"	946	297
3' 6" × 6' 2"	189	298
3' 6" × 6' 5"	464	307
3' 6" × 7' 10½"	83	313
3' 6½" × 5' 0"	740	296
3' 6½" × 5' 0"	741	296
3' 6½" × 5' 0"	742	296
3' 6¾" × 5' 0"	743	296
3' 7" × 5' 0"	573	296
3' 7" × 5' 6"	1097	302
3' 7" × 6' 6"	1023	308
3' 7" × 8' 2"	63	311
3' 7" × 9' 3"	1151	300
3' 7½" × 6' 5"	973	298
3' 8" × 4' 3"	1095	294
3' 8" × 5' 0"	1095	295
3' 9" × 5' 2"	1101	297
3' 9" × 6' 0"	208	304
3' 10" × 7' 11"	1127	299
4' 0" × 5' 4"	1092	302
4' 0" × 5' 9"	946	298
4' 0" × 6' 8"	461	298
4' 0" × 7' 9"	461	299
4' 0" × 7' 10"	784	312
4' 1" × 5' 0"	1095	295
4' 1" × 7' 7½"	739	299
4' 1" × 7' 11"	739	299
4' 2" × 4' 5"	80	301
4' 2" × 5' 3"	23	297
4' 2" × 7' 6"	809	312
4' 2" × 7' 9"	874	311
4' 4" × 6' 0"	211	303
4' 5¼" × 6' 5"	973	298
4' 6" × 6' 2"	741	305
4' 6" × 6' 2"	743	305
4' 6" × 10' 0"	801	300
4' 7" × 6' 0"	126	303
4' 7" × 8' 0"	207	315
4' 7" × 9' 0"	85	318
4' 8" × 6' 3"	1013	307
4' 8" × 7' 8"	1013	317
4' 8" × 8' 0"	1013	320
4' 10" × 8' 0"	185	300
5' 0" × 6' 5"	464	307
5' 0" × 6' 10¾"	457	309
5' 0" × 8' 6"	464	316
5' 1" × 7' 10¾"	83	313
5' 1" × 8' 0"	836	314
5' 2" × 7' 0"	874	310
5' 2" × 7' 6"	809	312
5' 2" × 7' 9"	874	311
5' 3" × 7' 0"	784	312
5' 3" × 7' 6"	809	312
5' 3" × 7' 9"	874	311
5' 3" × 7' 11"	739	299
5' 3" × 8' 0"	207	315
5' 3" × 8' 0"	836	314
5' 3" × 8' 0"	840	295
5' 3" × 8' 0"	946	297
5' 3" × 8' 0"	1026	294
5' 3" × 8' 0"	1026	295
5' 3" × 8' 0"	1026	297
5' 3" × 8' 0"	1026	298
5' 3" × 8' 0"	1026	294
5' 3" × 8' 0"	1026	294
5' 3" × 8' 0"	145	294
5' 3" × 9' 0"	1026	295
5' 3" × 9' 0"	145	295
5' 3" × 9' 0"	145	297
5' 3" × 9' 0"	1026	294
5' 3" × 9' 0"	1026	294
5' 3" × 9' 0"	1026	295
5' 3" × 9' 0"	1026	297
5' 3" × 9' 0"	1026	298
5' 3" × 9' 0"	1026	294
5' 3" × 9' 0"	1026	294
5' 3" × 9

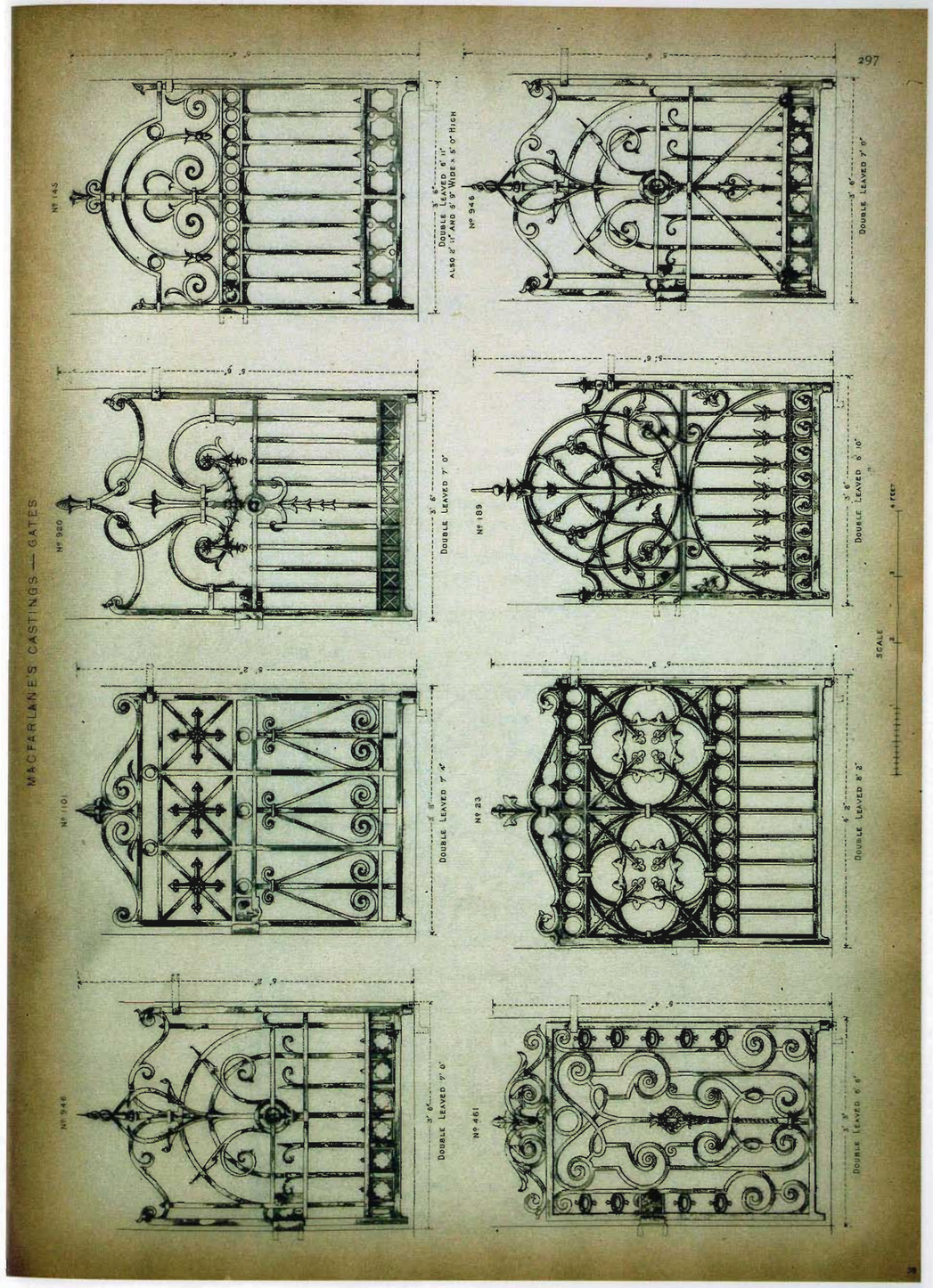
MACFARLANE'S CASTINGS — GATES



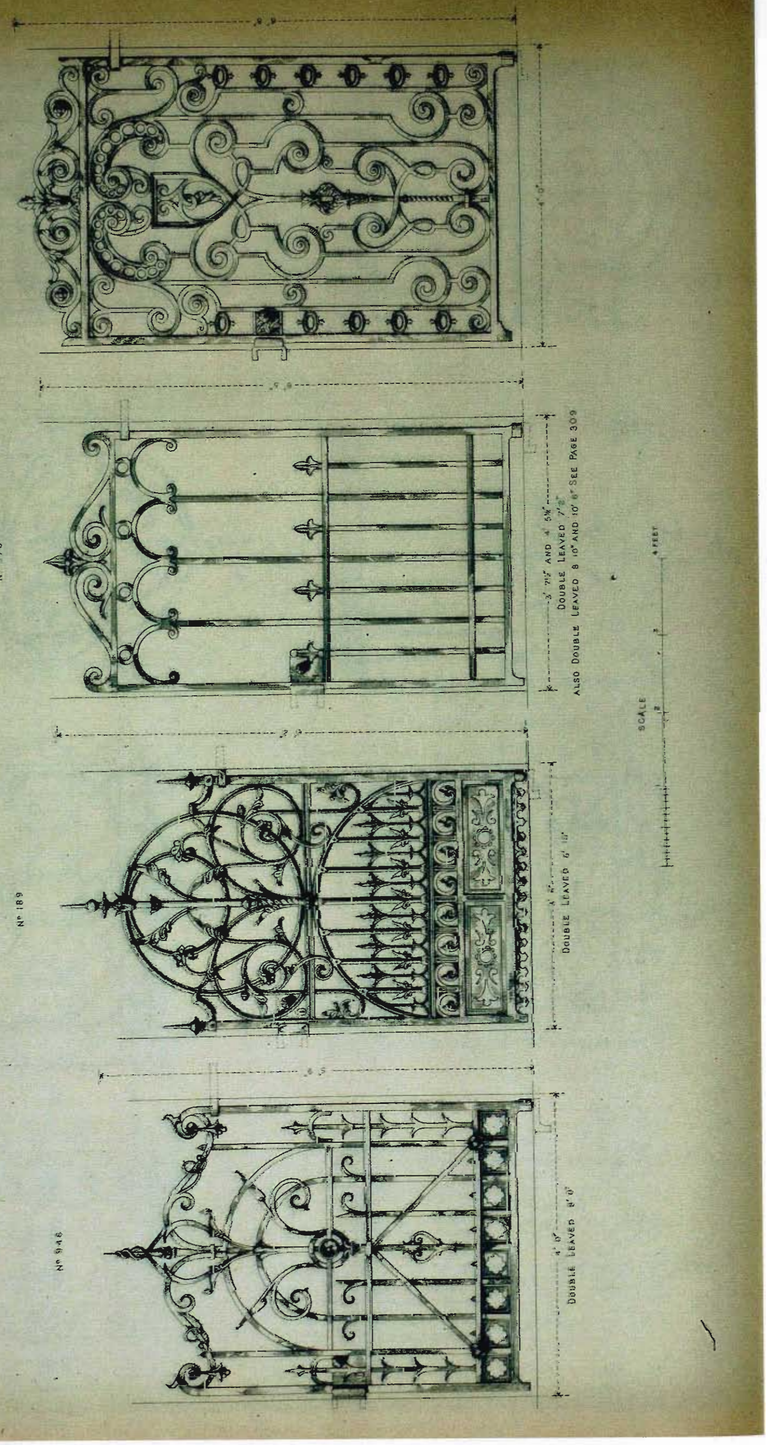
MACFARLANE'S CASTINGS — GATES



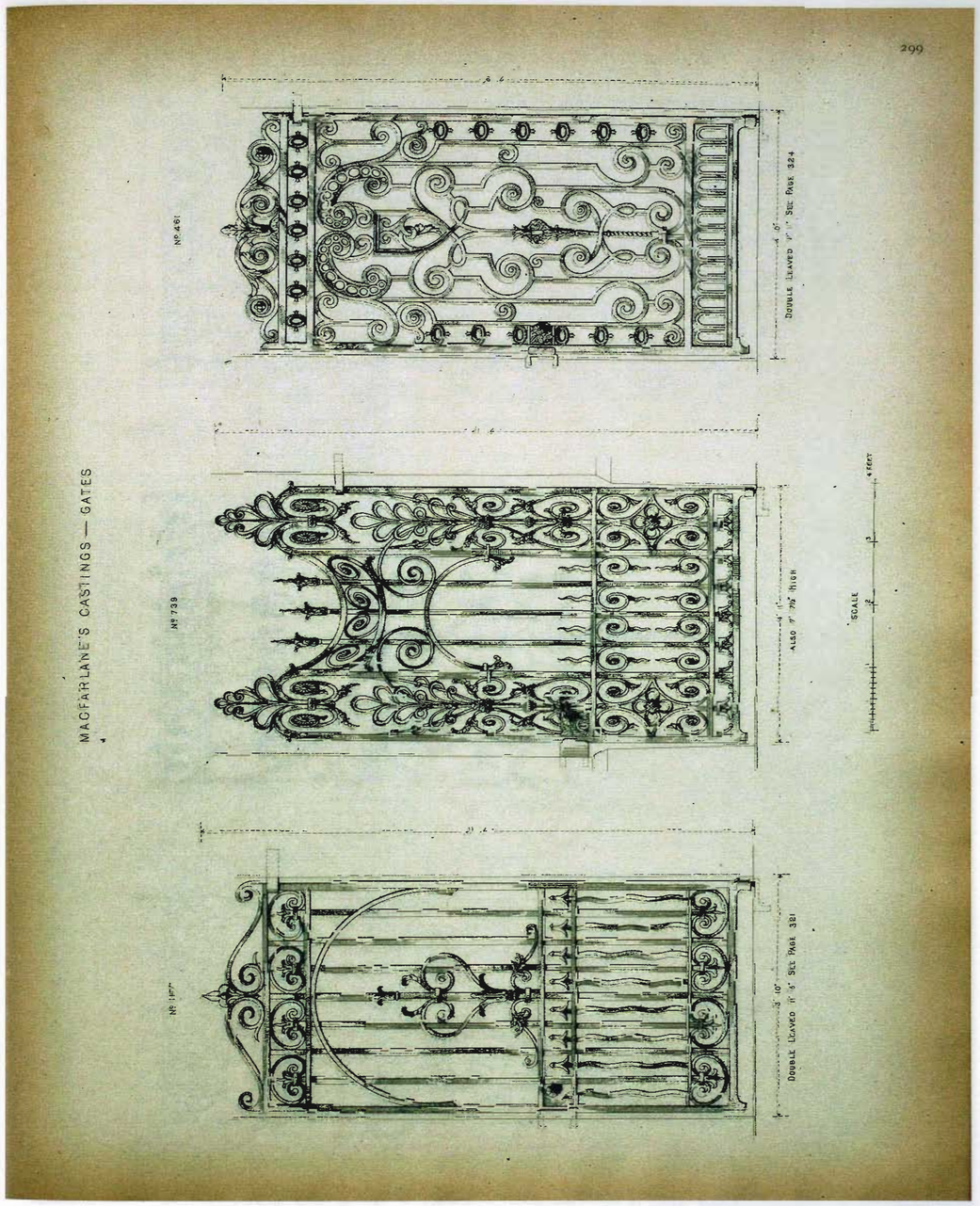

MACFARLANE'S CASTINGS — GATES
296
Nº 740
Nº 946
Nº 743
DOUBLE LEAVED 7' 0"
DOUBLE LEAVED 6' 0"
DOUBLE LEAVED 7' 0"
Nº 920
Nº 23
Nº 973
3' 1" AND 3' 6"
DOUBLE LEAVED 6' 0" AND 7' 0"
DOUBLE LEAVED 6' 11"
DOUBLE LEAVED 7'
Nº 742
Nº 1135
Nº 741
DOUBLE LEAVED 7' 0"
DOUBLE LEAVED 6' 7" X 5' 4" HIGH
ALSO DOUBLE LEAVED 10' 9" SEE PAGE 306
DOUBLE LEAVED 7' 0"
SCALE
2
3
4 FEET


297
MACFARLANE'S CASTINGS — GATES
Nº 145
DOUBLE LEAVED 6' 11"
ALSO 2' 1" AND 2' 6" WIDE X 5' 0" HIGH
Nº 946
DOUBLE LEAVED 7' 0"
Nº 920
DOUBLE LEAVED 7' 0"
Nº 189
DOUBLE LEAVED 6' 10"
Nº 1101
DOUBLE LEAVED 7' 4"
Nº 23
DOUBLE LEAVED 8' 8"
Nº 946
DOUBLE LEAVED 9' 0"
Nº 461
DOUBLE LEAVED 6' 6"
SCALE
2
3
4 FEET

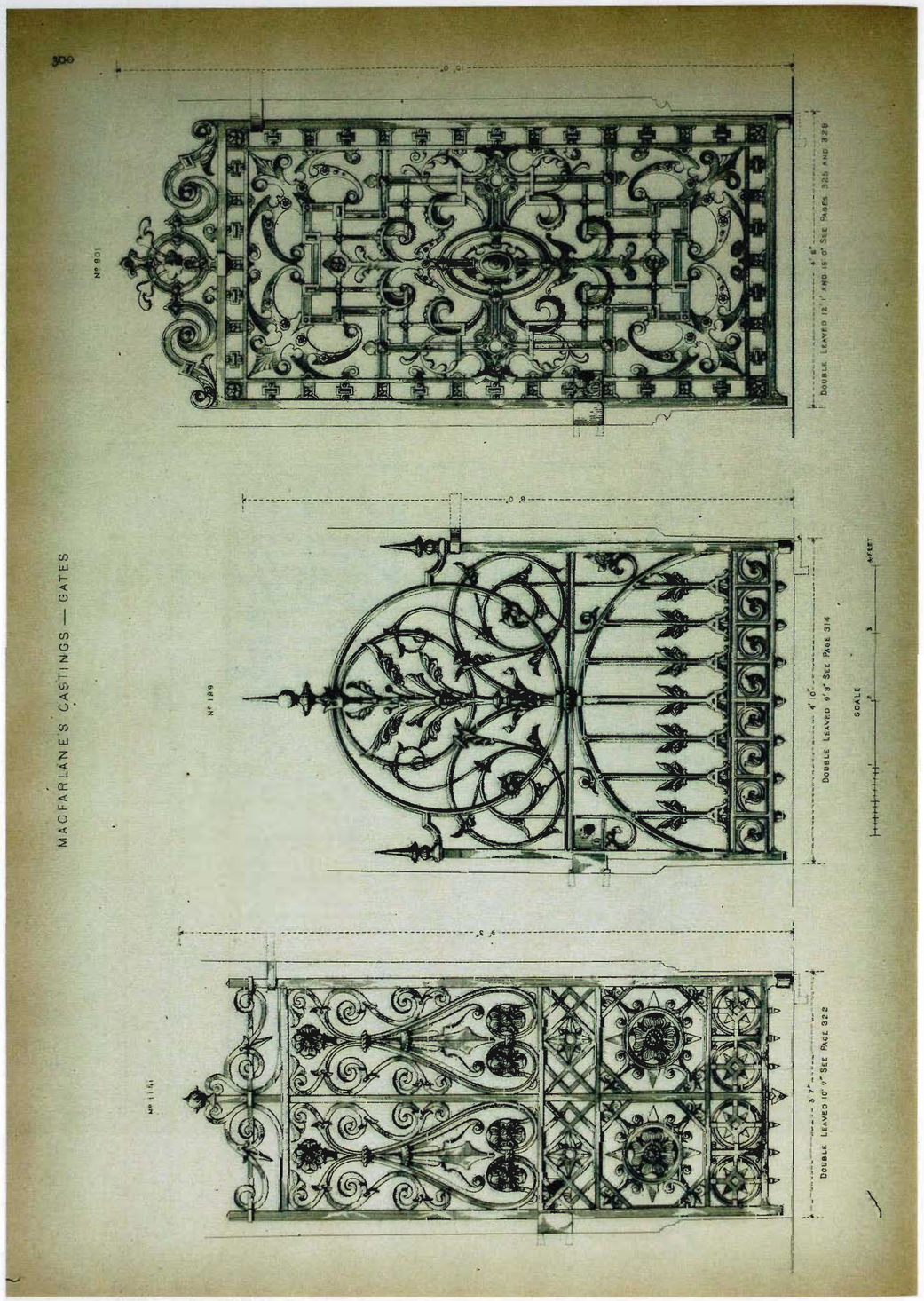
MACFARLANE'S CASTINGS — GATES



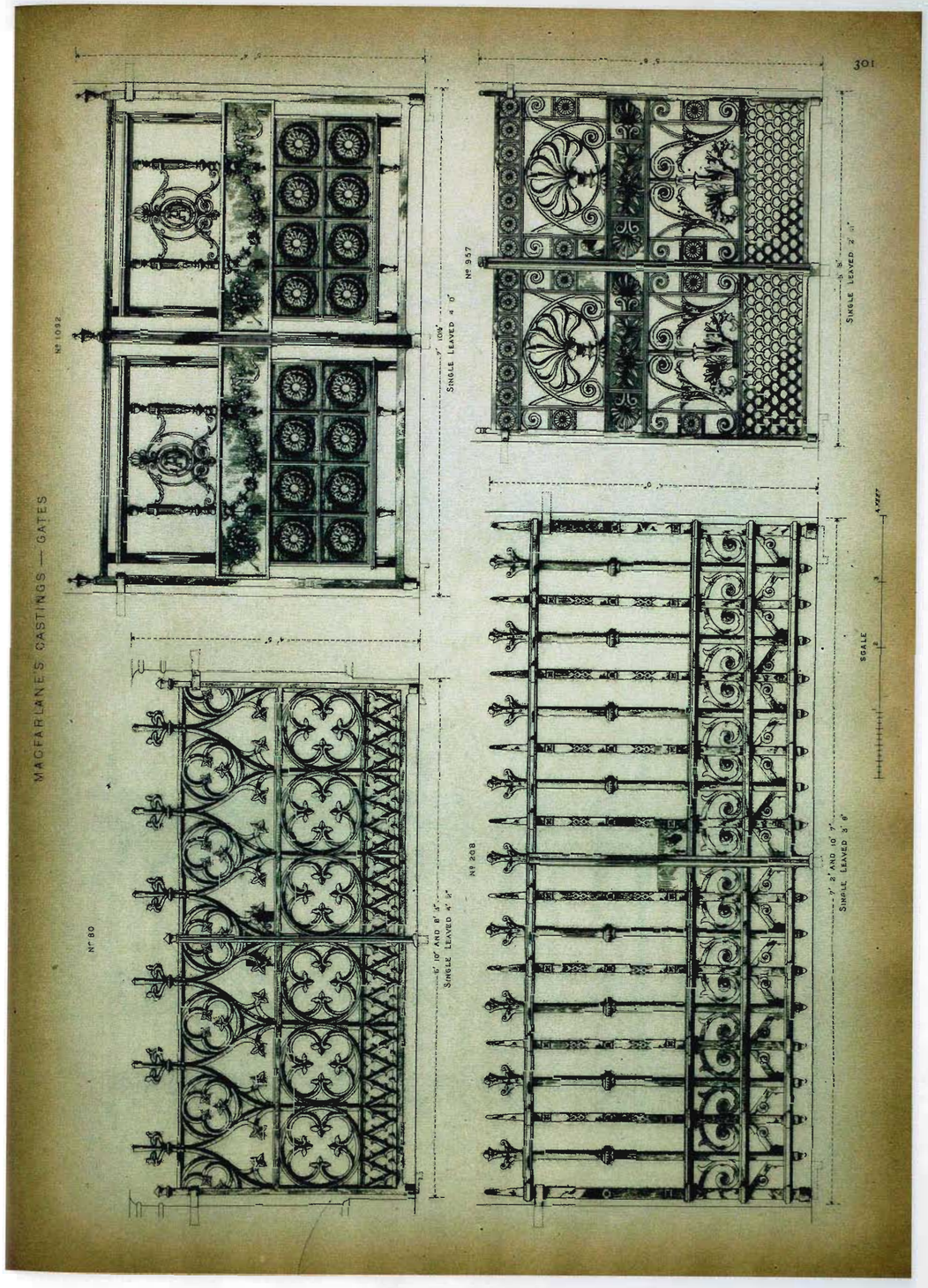
MACFARLANE'S CASTINGS — GATES



MACFARLANE'S CASTINGS — GATES

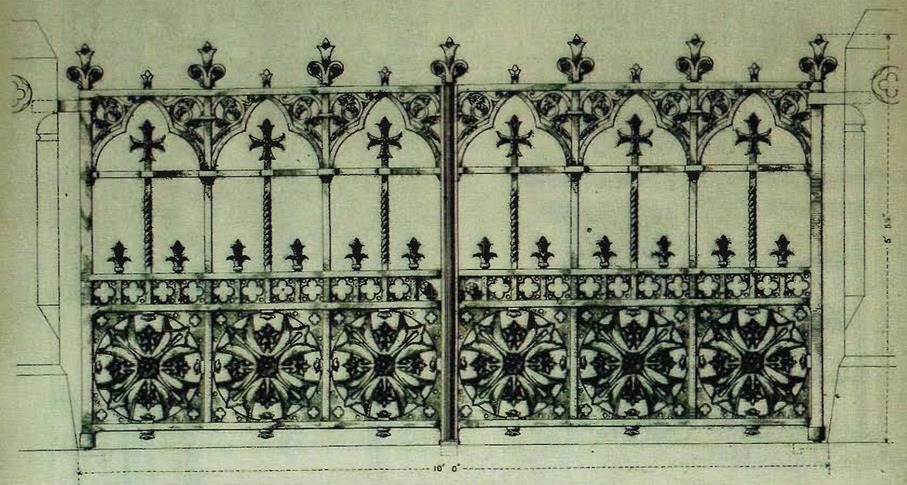


MACFARLANE'S CASTINGS — GATES



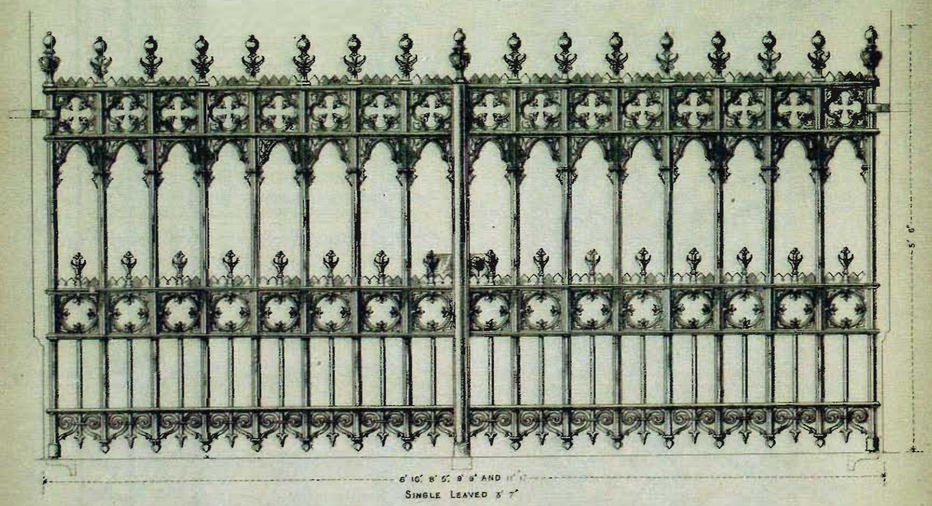
MACFARLANE'S CASTINGS — GATES

Nº 457



SINGLE LEAVED 3' 5"

Nº 1097



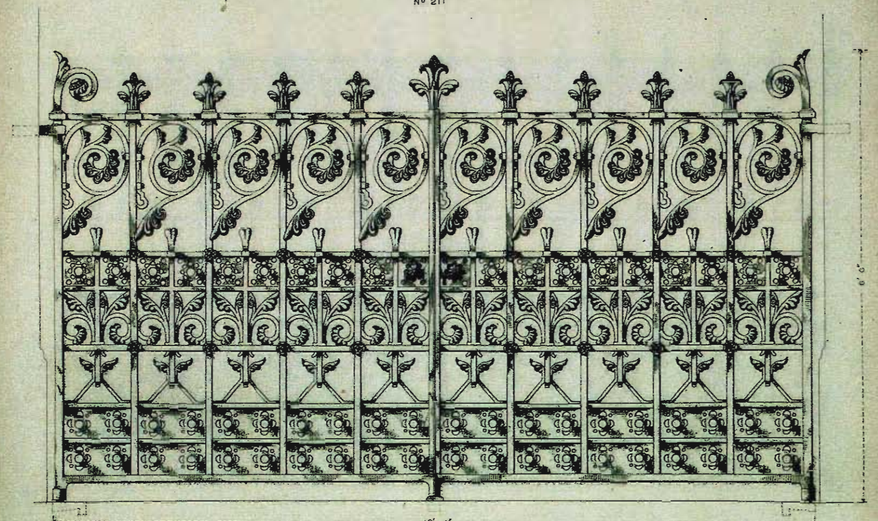
6' 10" 8' 5" 8' 8" AND
SINGLE LEAVED 3' 7"

SCALE

1 2 3 4 FEET

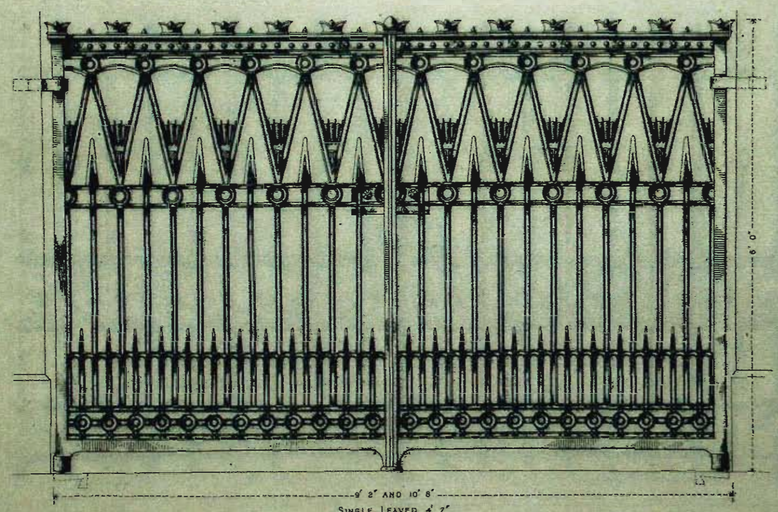
MACFARLANE'S CASTINGS — GATES

Nº 211



10' 4"
SINGLE LEAVED 3' 4" AND 4' 4"

Nº 126



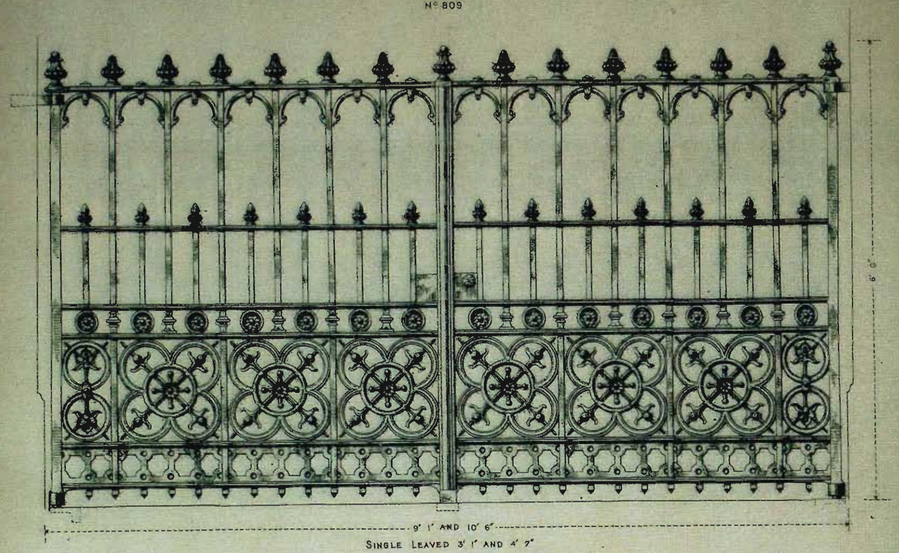
9' 2" AND 10' 8"
SINGLE LEAVED 4' 7"

SCALE

1 2 3 4 FEET

MACFARLANE'S CASTINGS — GATES

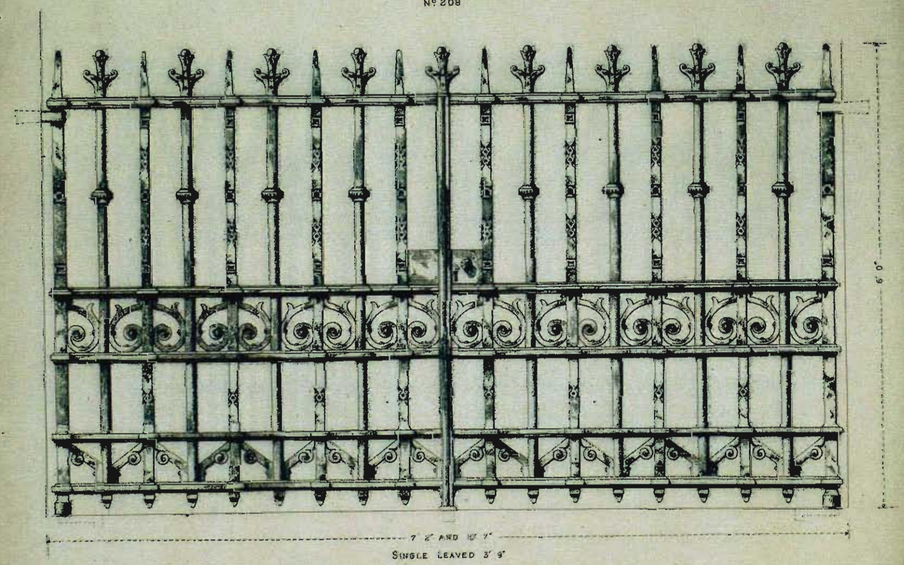
Nº 809



9' 1" AND 10' 6"

SINGLE LEAVED 3' 1" AND 4' 2"

Nº 208



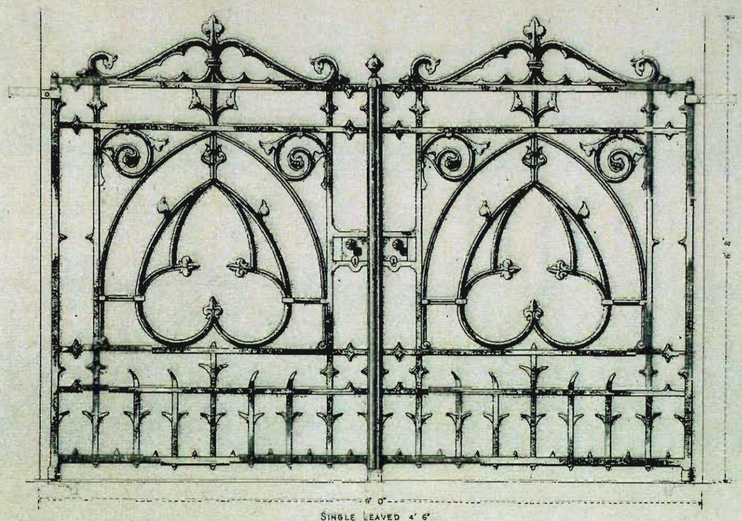
7' 2" AND 10' 7"

SINGLE LEAVED 3' 9"

SCALE

MACFARLANE'S CASTINGS — GATES

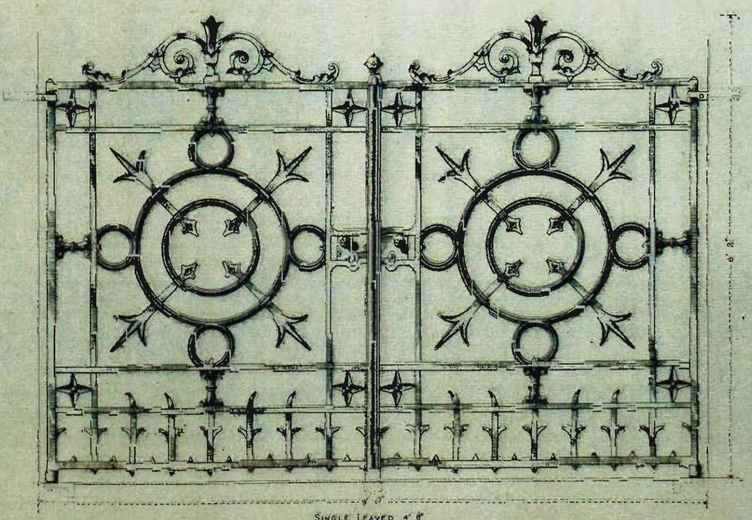
Nº 743



6' 0"

SINGLE LEAVED 4' 6"

Nº 741



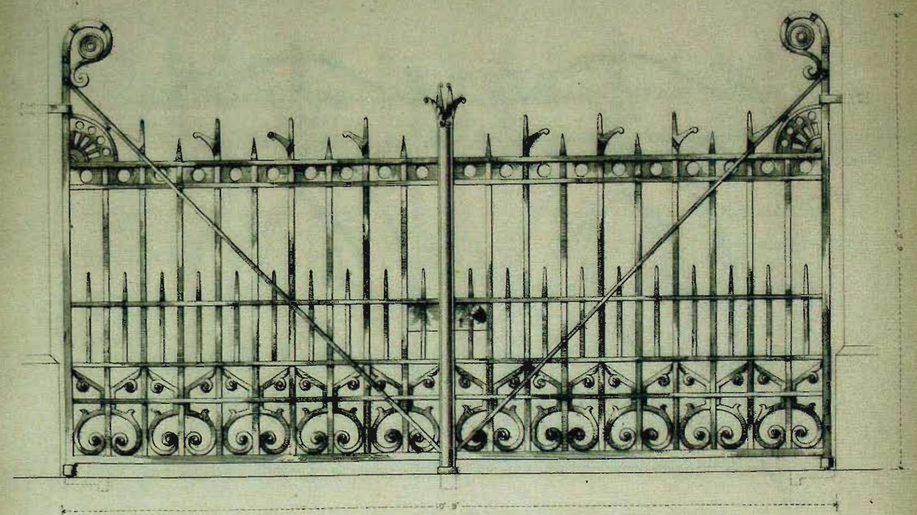
6' 0"

SINGLE LEAVED 4' 8"

SCALE

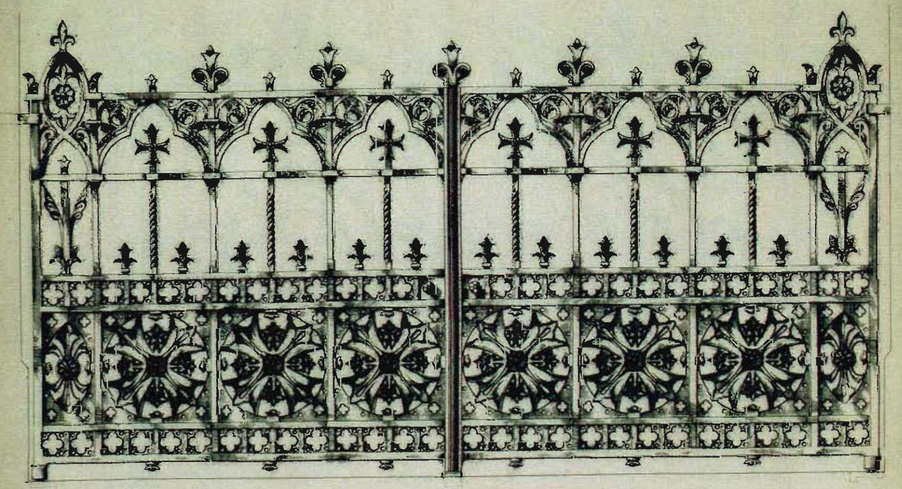
MACFARLANE'S CASTINGS — GATES

Nº 1135



SINGLE LEAVED 3' 4" SEE PAGE 296

Nº 457



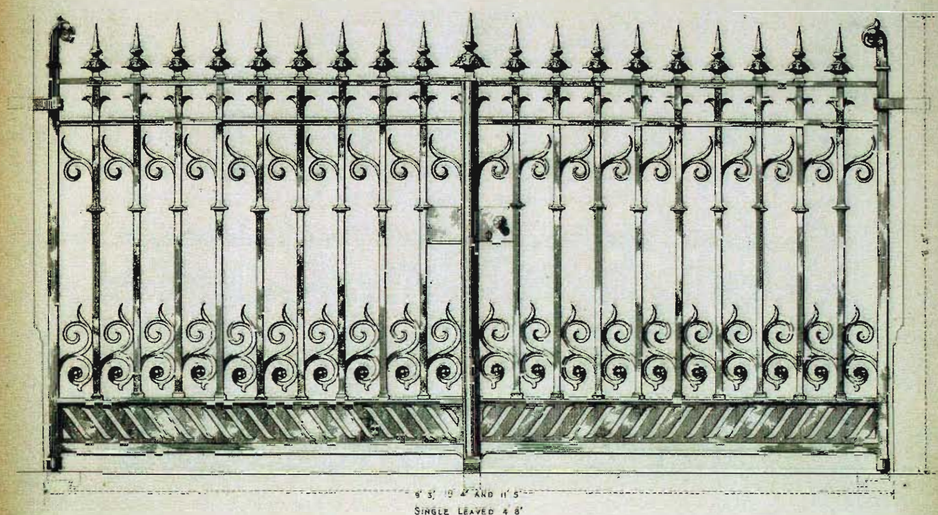
SINGLE LEAVED 3' 5" × 5' 10" HIGH

SCALE

4 FEET

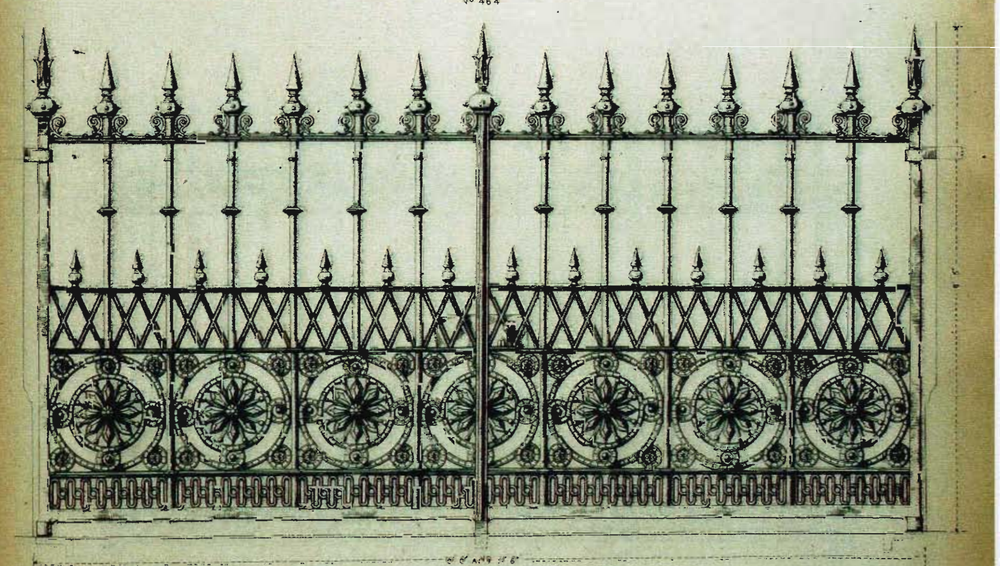
MACFARLANE'S CASTINGS — GATES

Nº 1013



SINGLE LEAVED 4' 8"

Nº 464



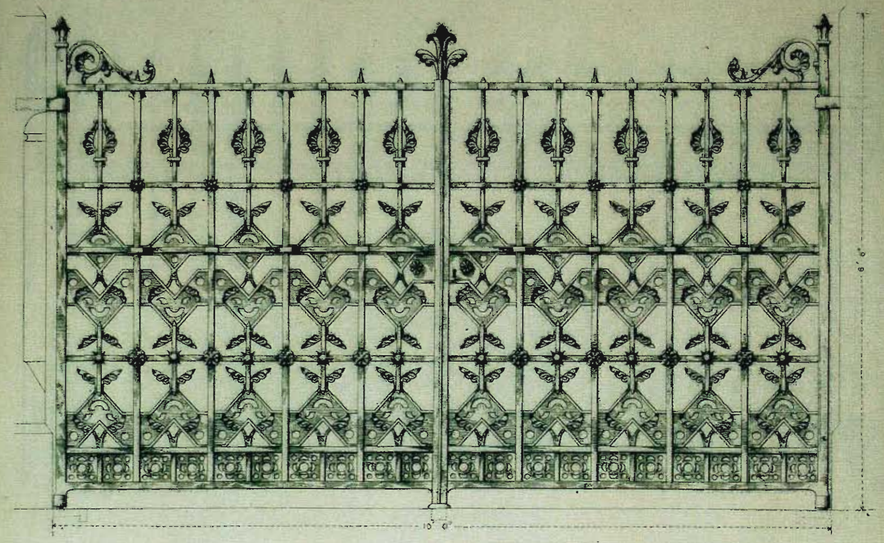
SINGLE LEAVED 3' 6" AND 5' 0"

SCALE

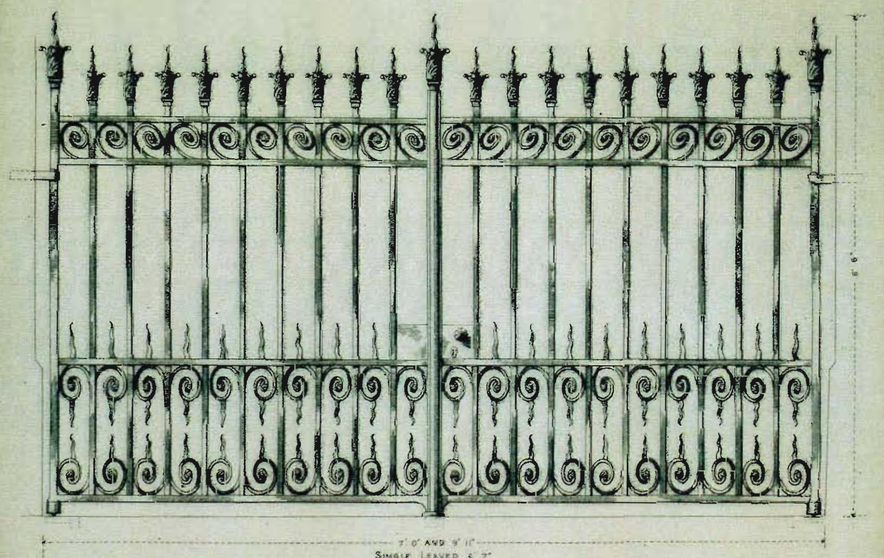
4 FEET

MACFARLANE'S CASTINGS — GATES

Nº 758



Nº 1023



SINGLE LEAVED 3' 7"

SCALE

1 2 3 4 FEET

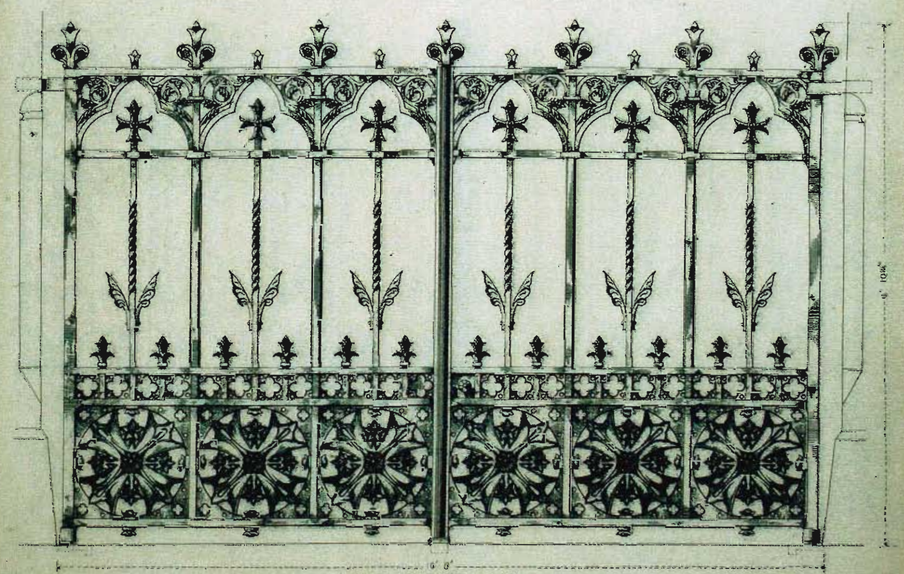
MACFARLANE'S CASTINGS — GATES

Nº 979



SINGLE LEAVED 3' 7¾" AND 4' 5¾" SEE PAGE 298

Nº 457



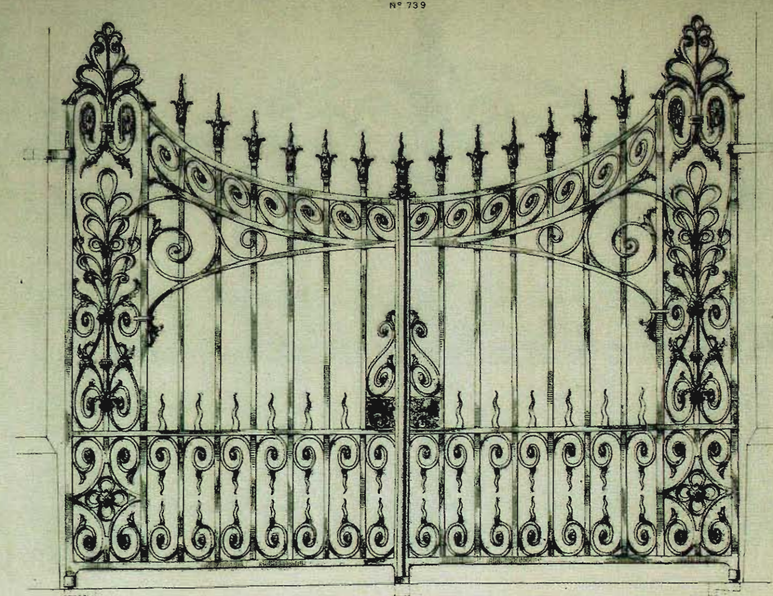
SINGLE LEAVED 3' 3" AND 5' 0"

SCALE

1 2 3 4 FEET

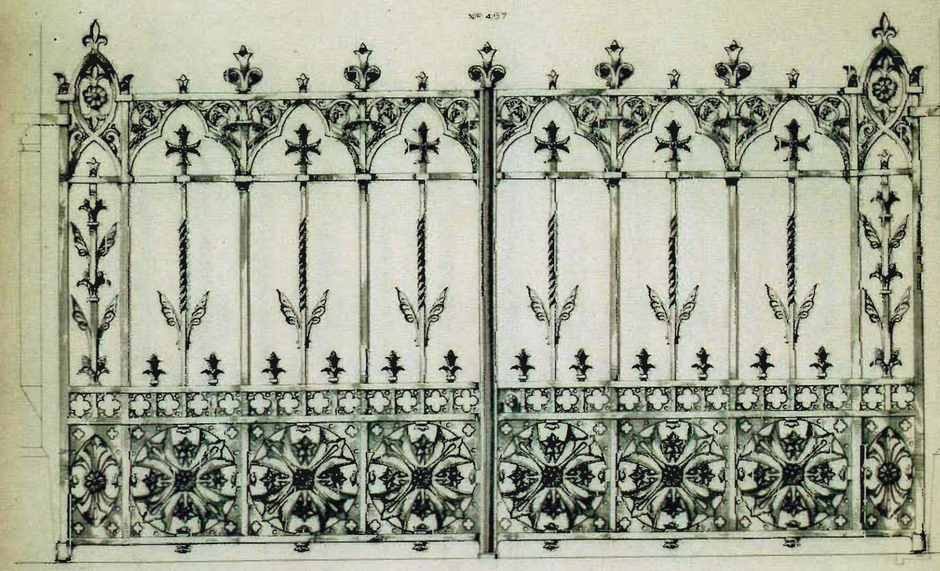
MACFARLANE'S CASTINGS — GATES

Nº 739



SINGLE LEAVED 4' 1" SEE PAGE 299

Nº 457

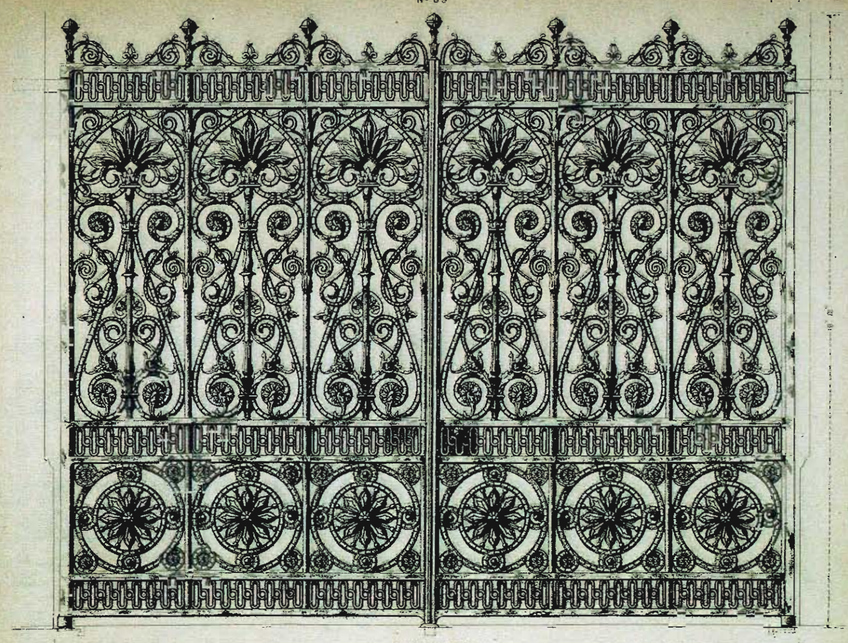


SINGLE LEAVED 5' 5" AND 5' 7" & 6' 10" HIGH

SCALE

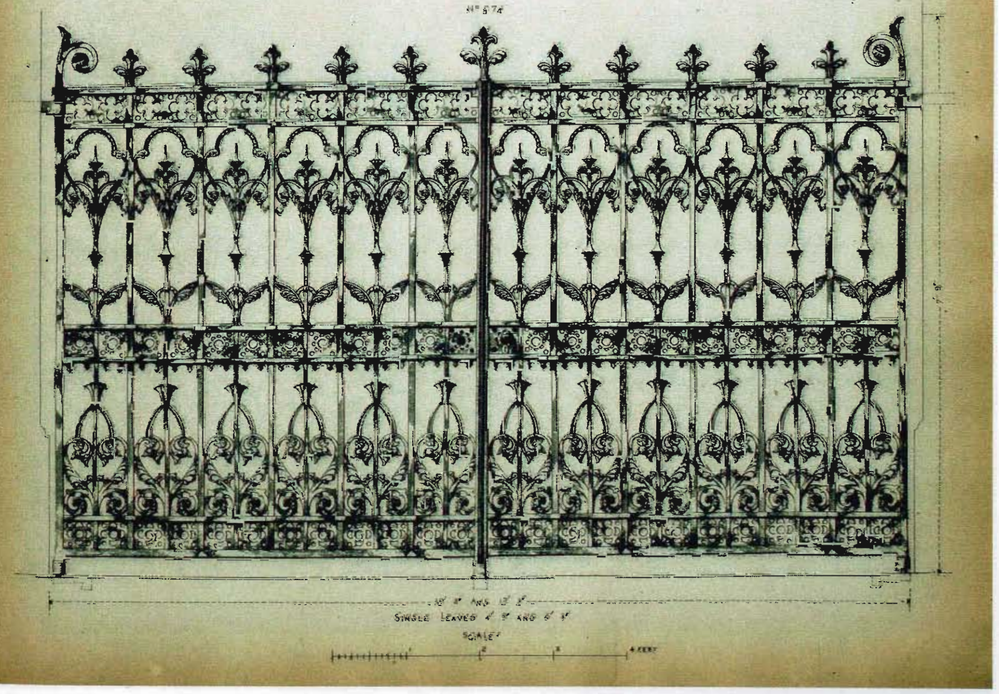
MACFARLANE'S CASTINGS — GATES

Nº 63



SINGLE LEAVED 5' 7" AND 5' 8"

Nº 574

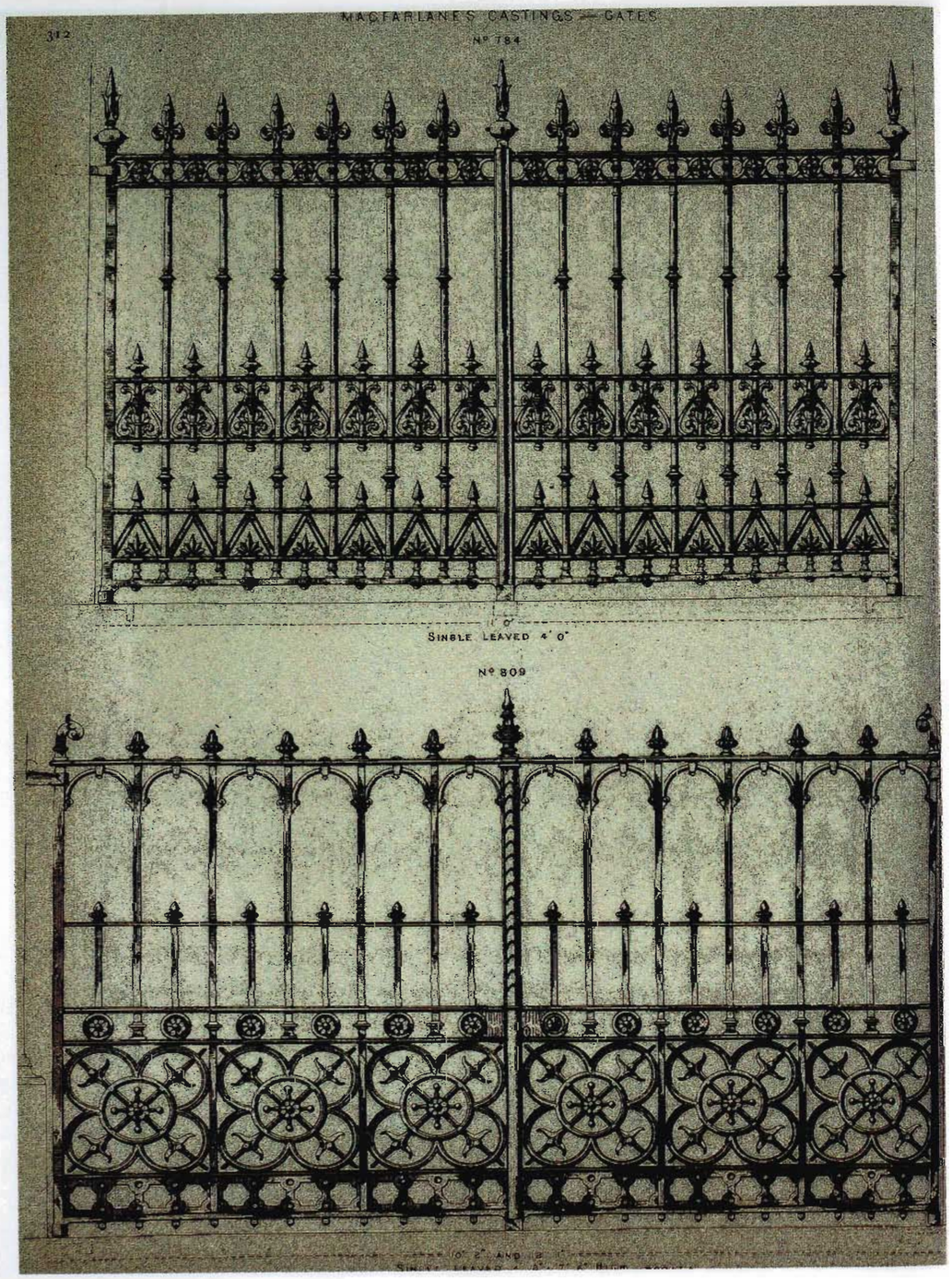


SINGLE LEAVED 4' 9" AND 6' 1"

SCALE

MACFARLANE'S CASTINGS — GATES

Nº 784

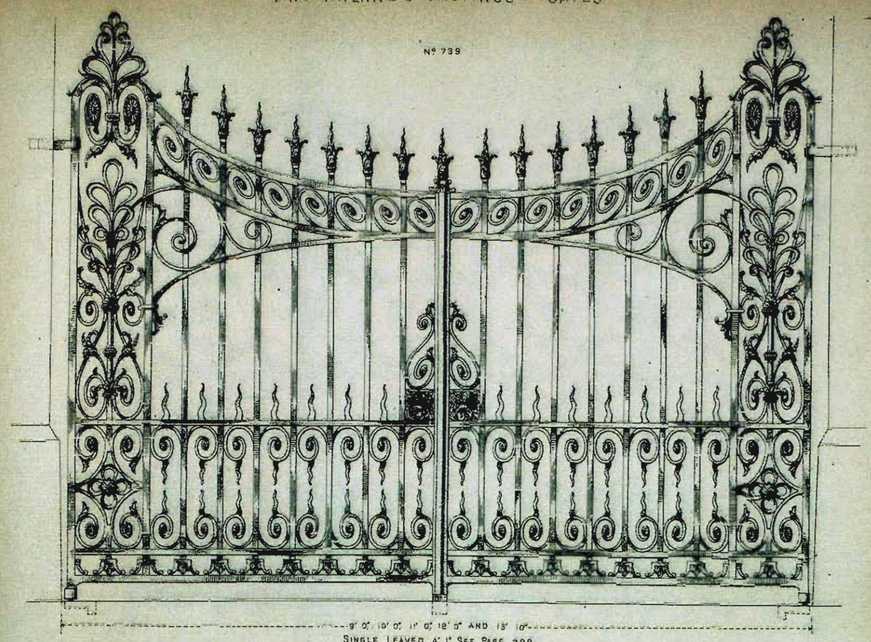


SINGLE LEAVED 4' 0"

Nº 809

MACFARLANE'S CASTINGS — GATES

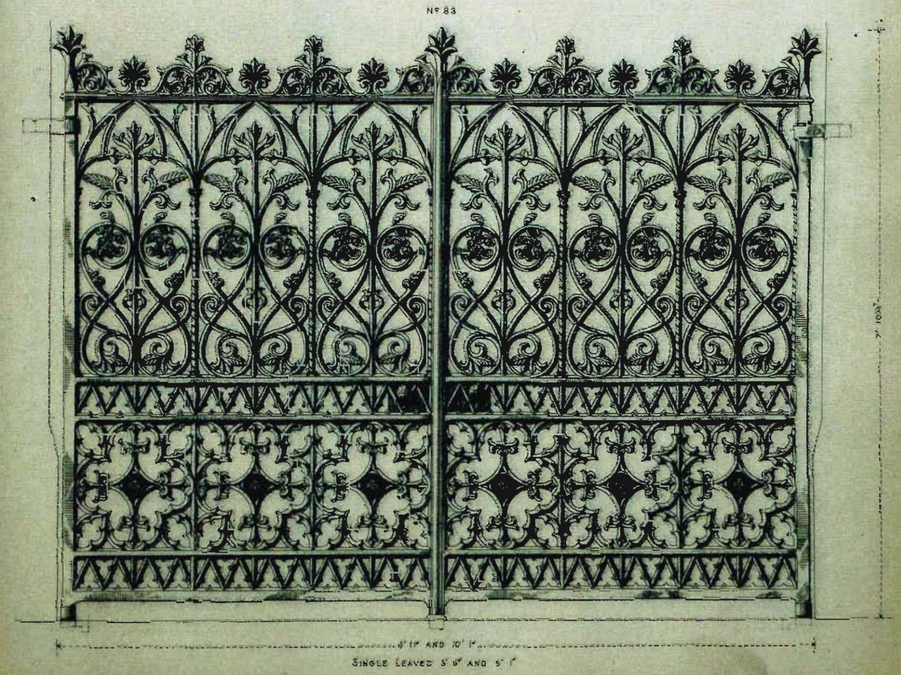
Nº 739



9' 0", 10' 0", 11' 0", 12' 0" AND 13' 0"

SINGLE LEAVED 4' 1" SEE PAGE 299

Nº 83

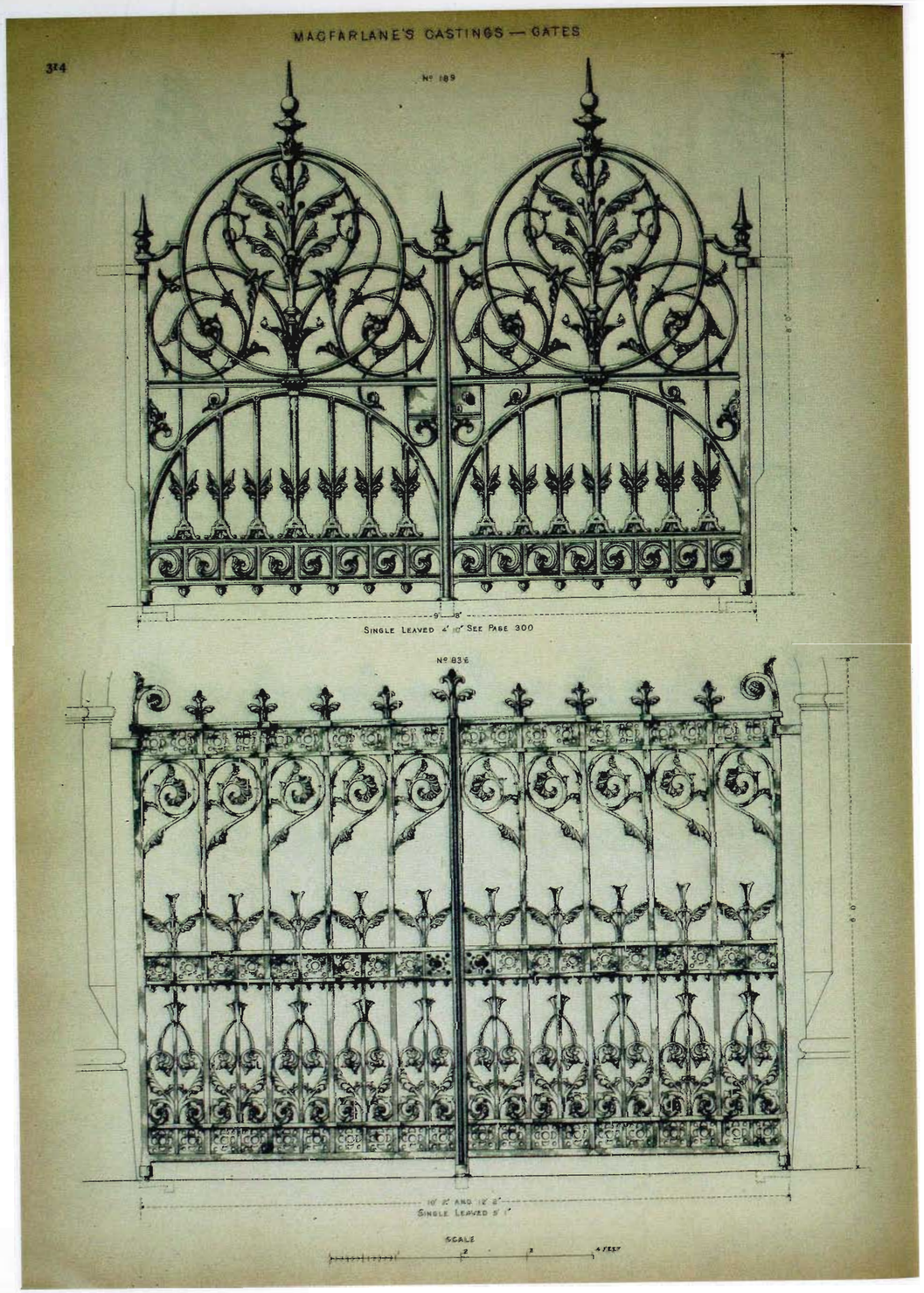


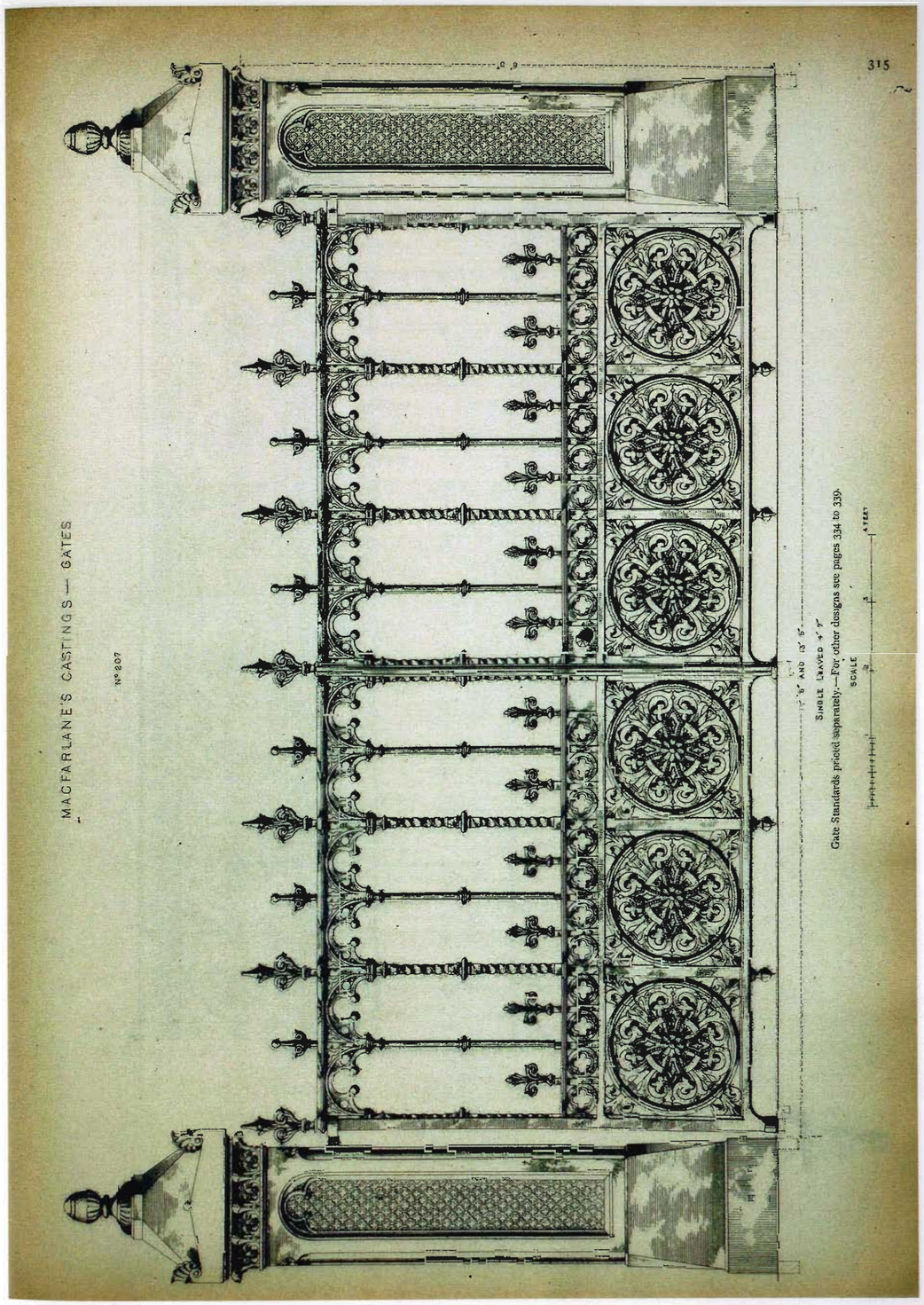
8' 11" AND 10' 1"

SINGLE LEAVED 5' 6" AND 5' 1"

SCALE

1 2 3 4 FEET


MACFARLANE'S CASTINGS — GATES
314
Nº 189
9'—8"
SINGLE LEAVED 4' 10" SEE PAGE 300
Nº 836
10' 2" AND 12' 8"
SINGLE LEAVED 5' 1"
SCALE
2
3
4 FEET


MACFARLANE'S CASTINGS — GATES
315
Nº 207
SINGLE LEAVED 4' 5"
10' 2" AND 12' 8"
SINGLE LEAVED 5' 1"
Gate Standards priced separately.—For other designs see pages 334 to 339.
SCALE
2
3
4 FEET

316

MACFARLANE'S CASTINGS — GATES

Nº 464

SINGLE LEAVED 5' 0"

SCALE

4 FEET

317

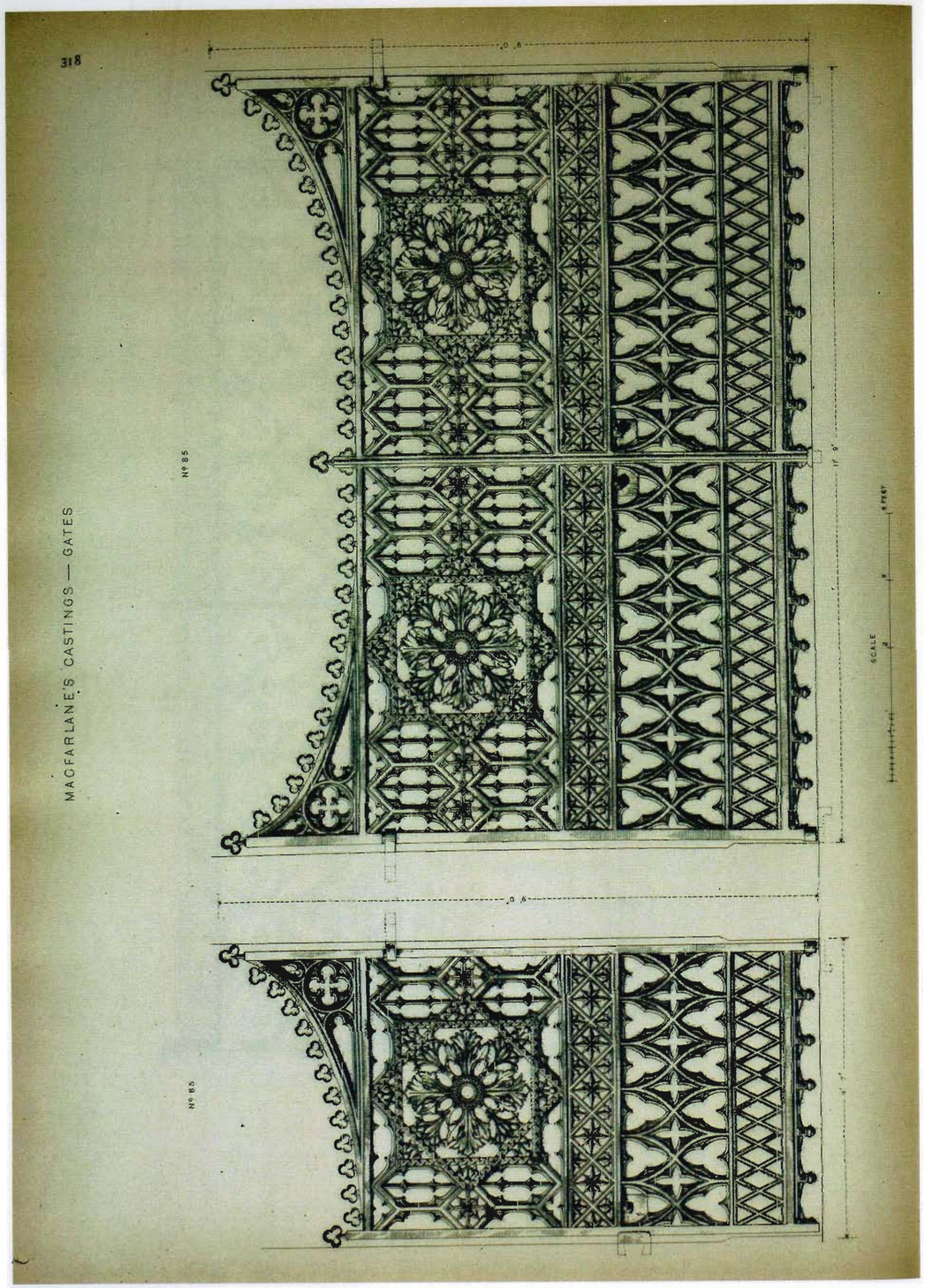
MACFARLANE'S CASTINGS — GATES

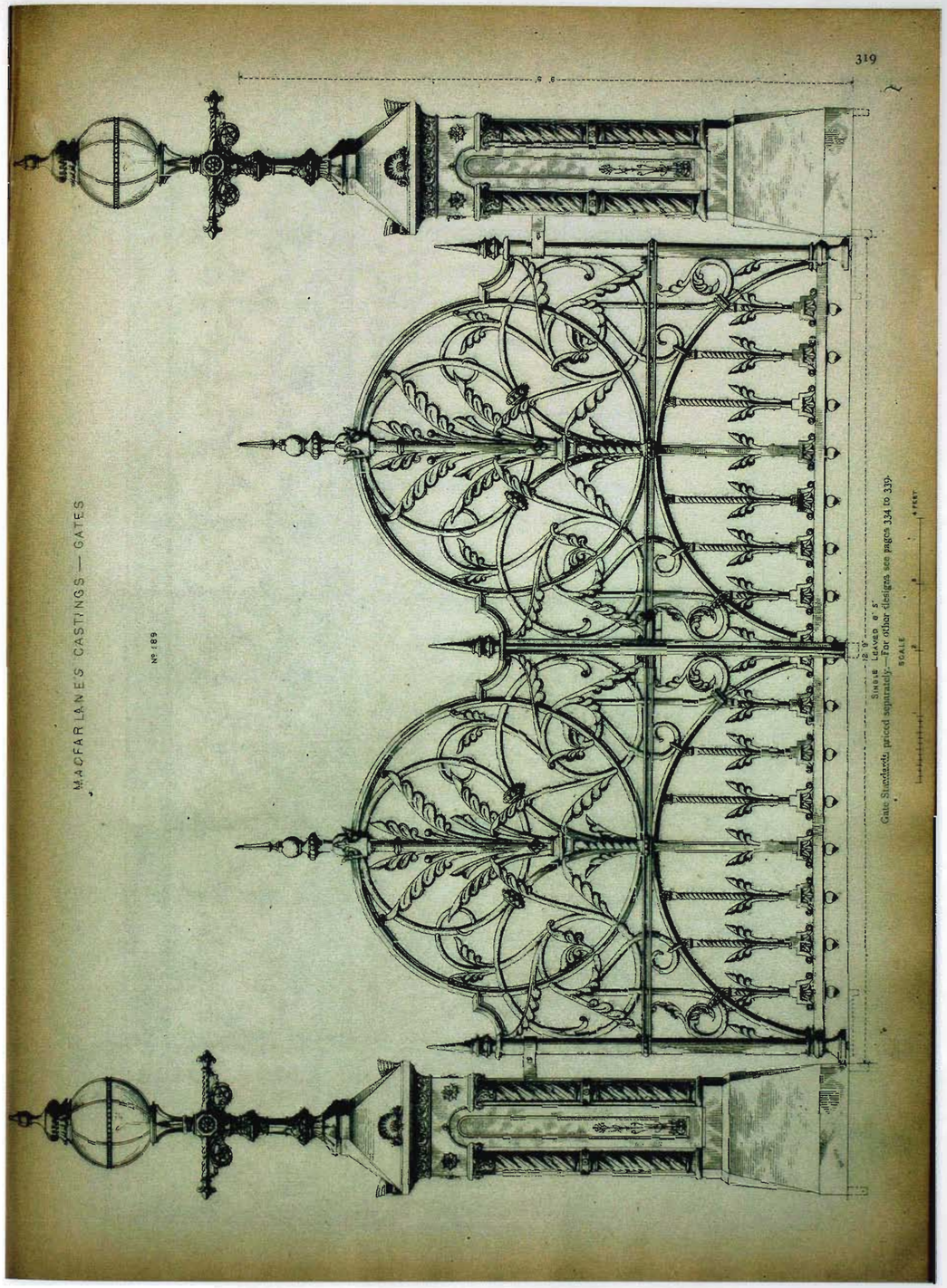
Nº 1013

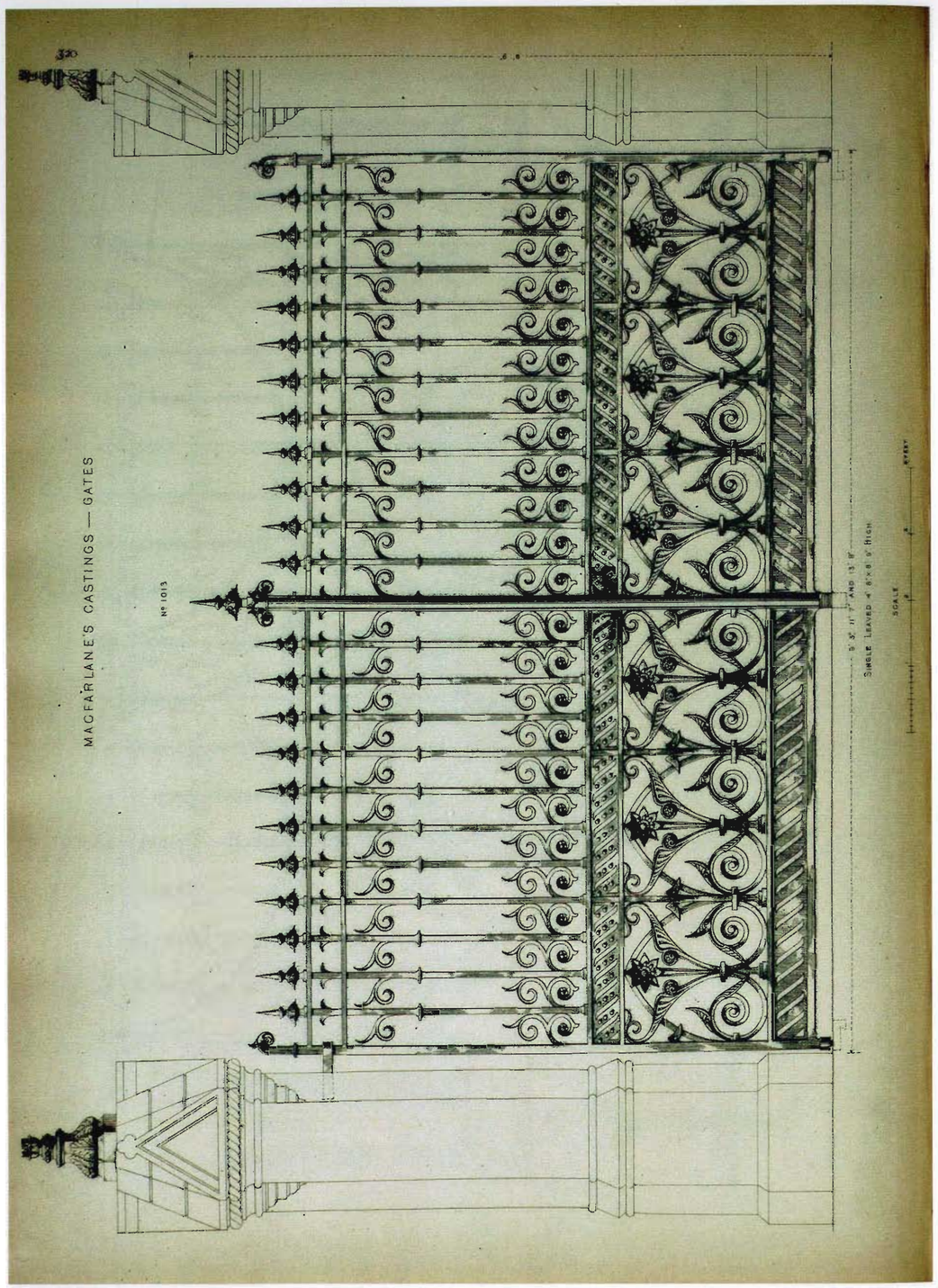
SINGLE LEAVED 4' 6" X 7' 6" HIGH

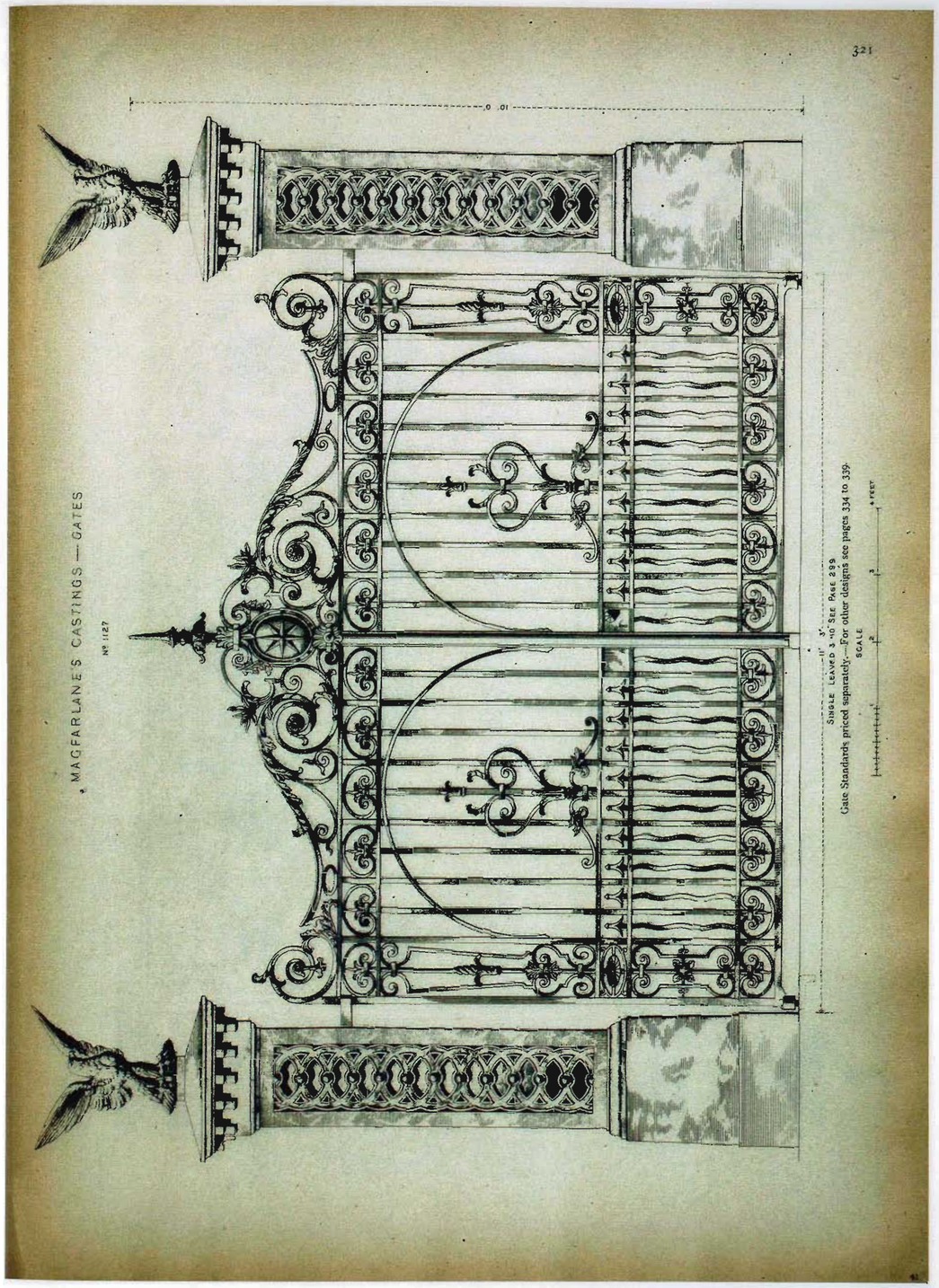
SCALE

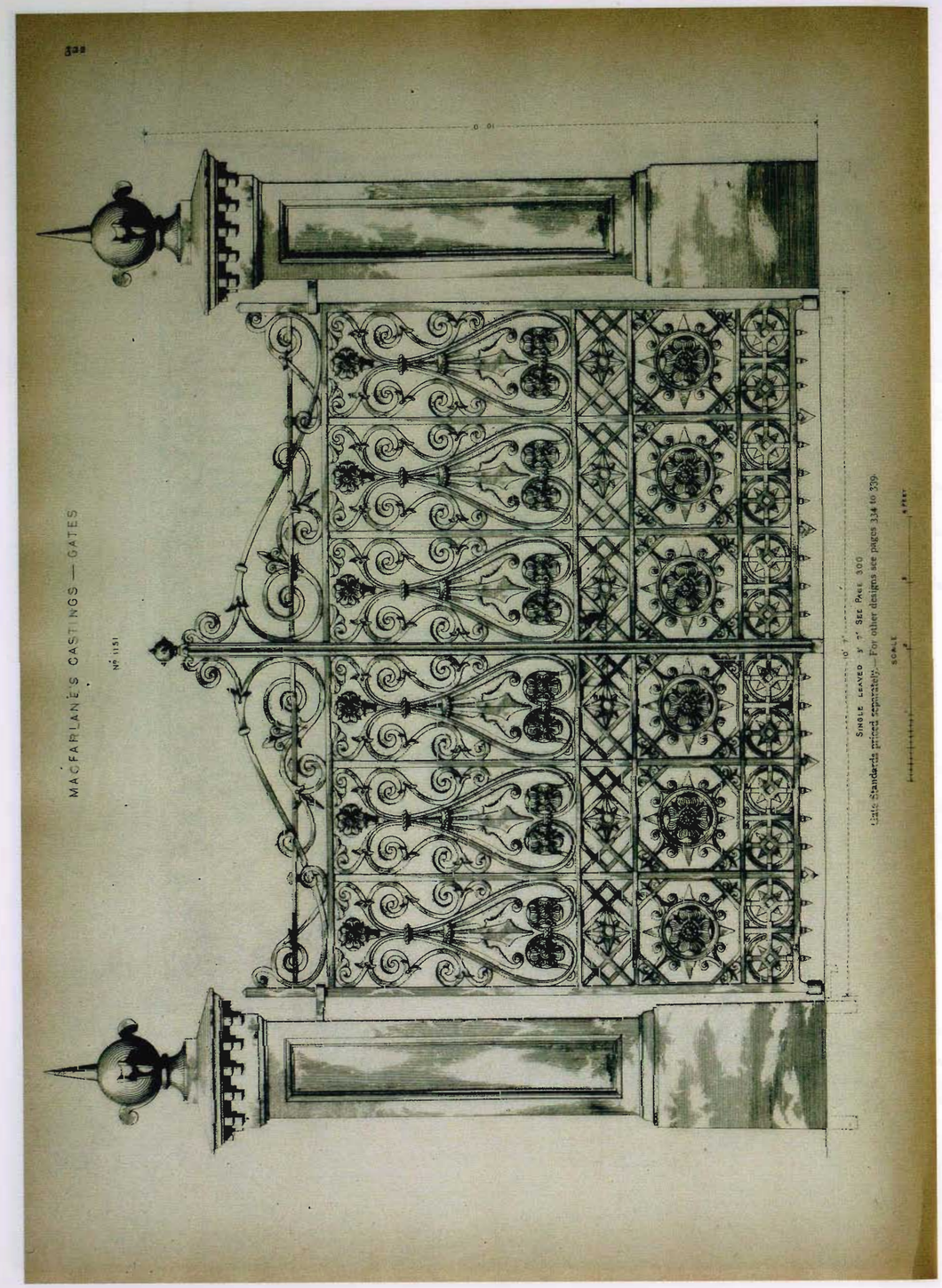
4 FEET

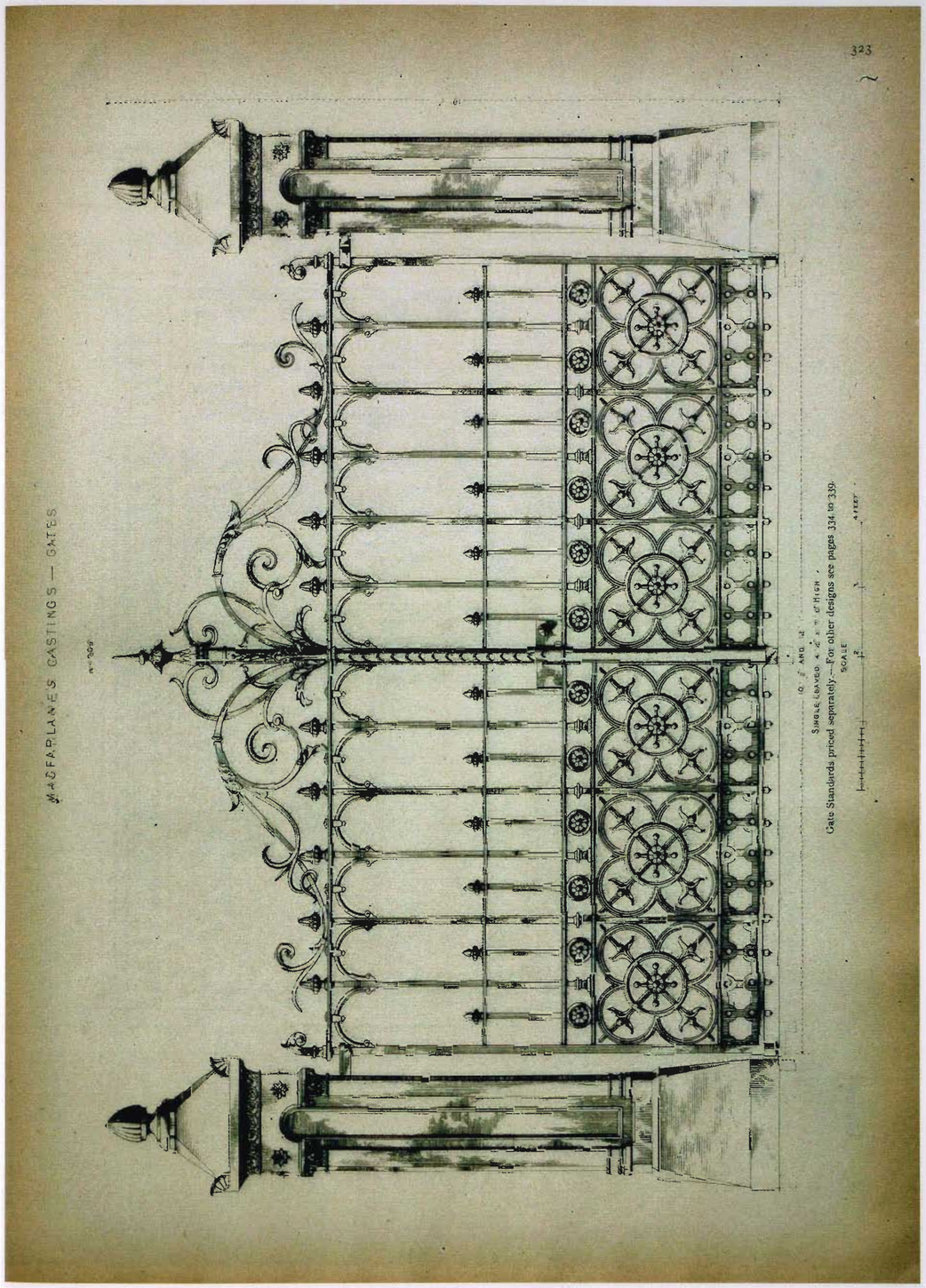

318
MACFARLANE'S CASTINGS — GATES
No 85
No 85
SCALE
4 FEET

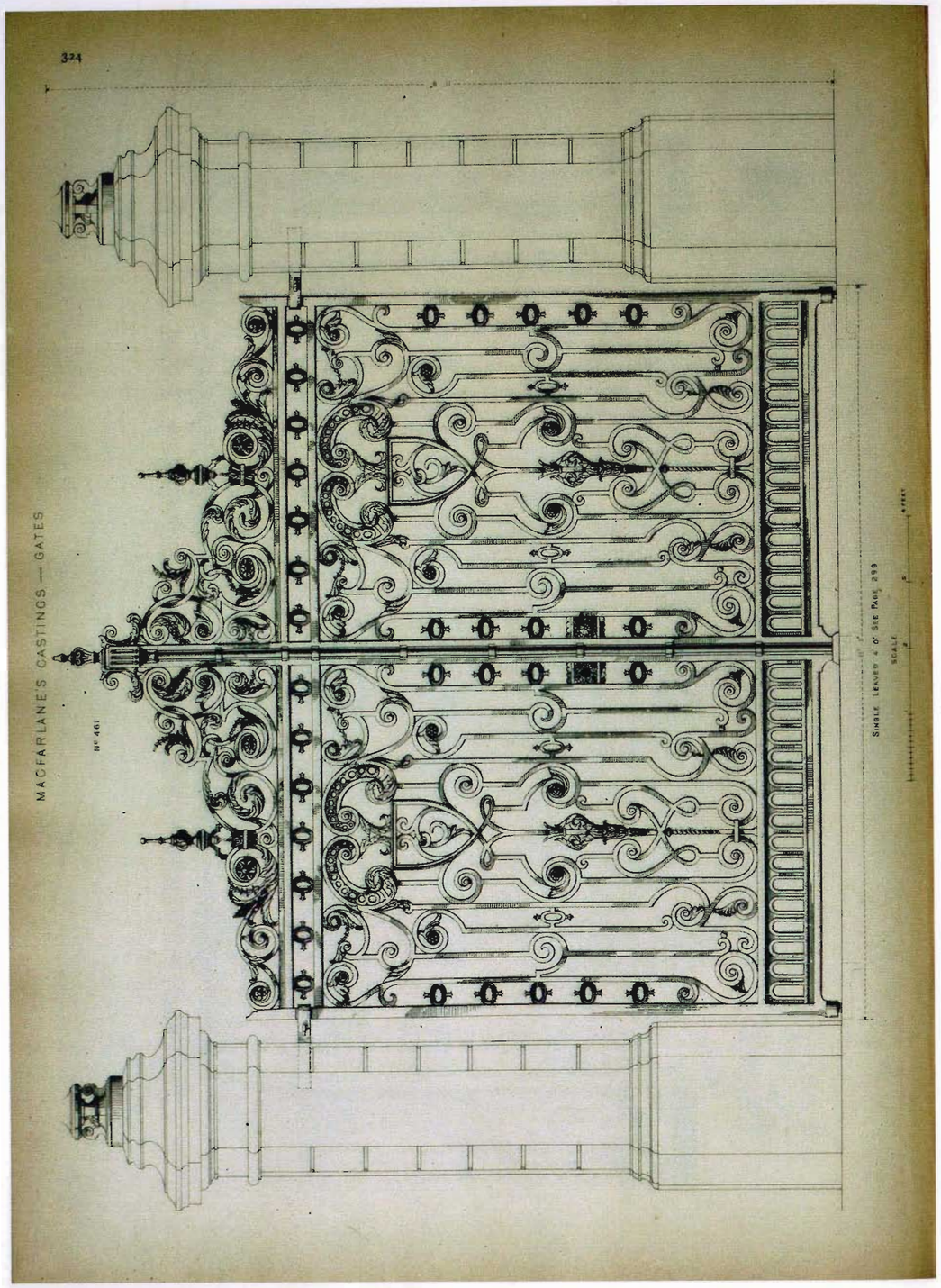

319
MACFARLANE'S CASTINGS — GATES
No 189
SCALE
4 FEET

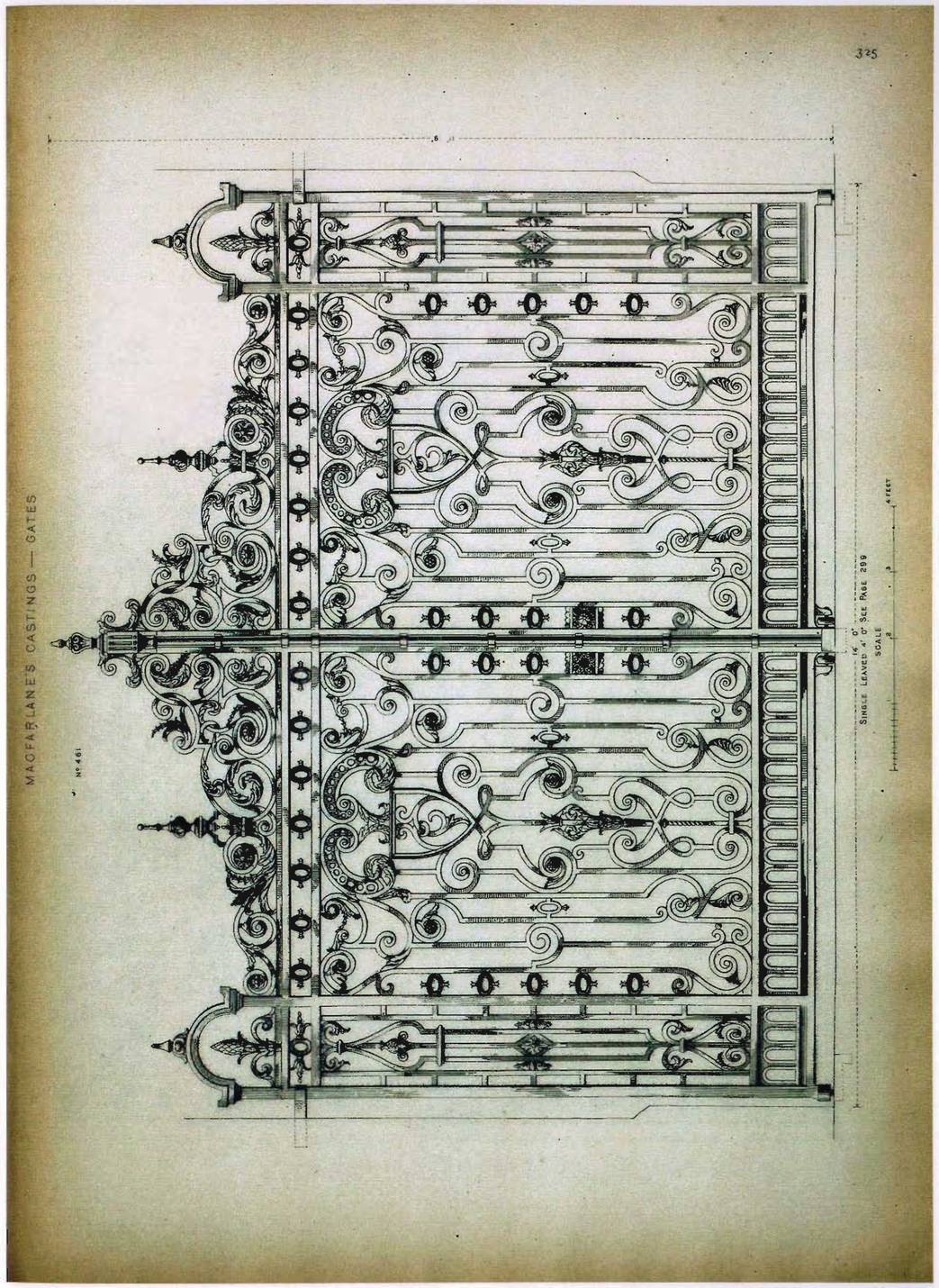

320
MACFARLANE'S CASTINGS — GATES
No 1013
SCALE
4 FEET

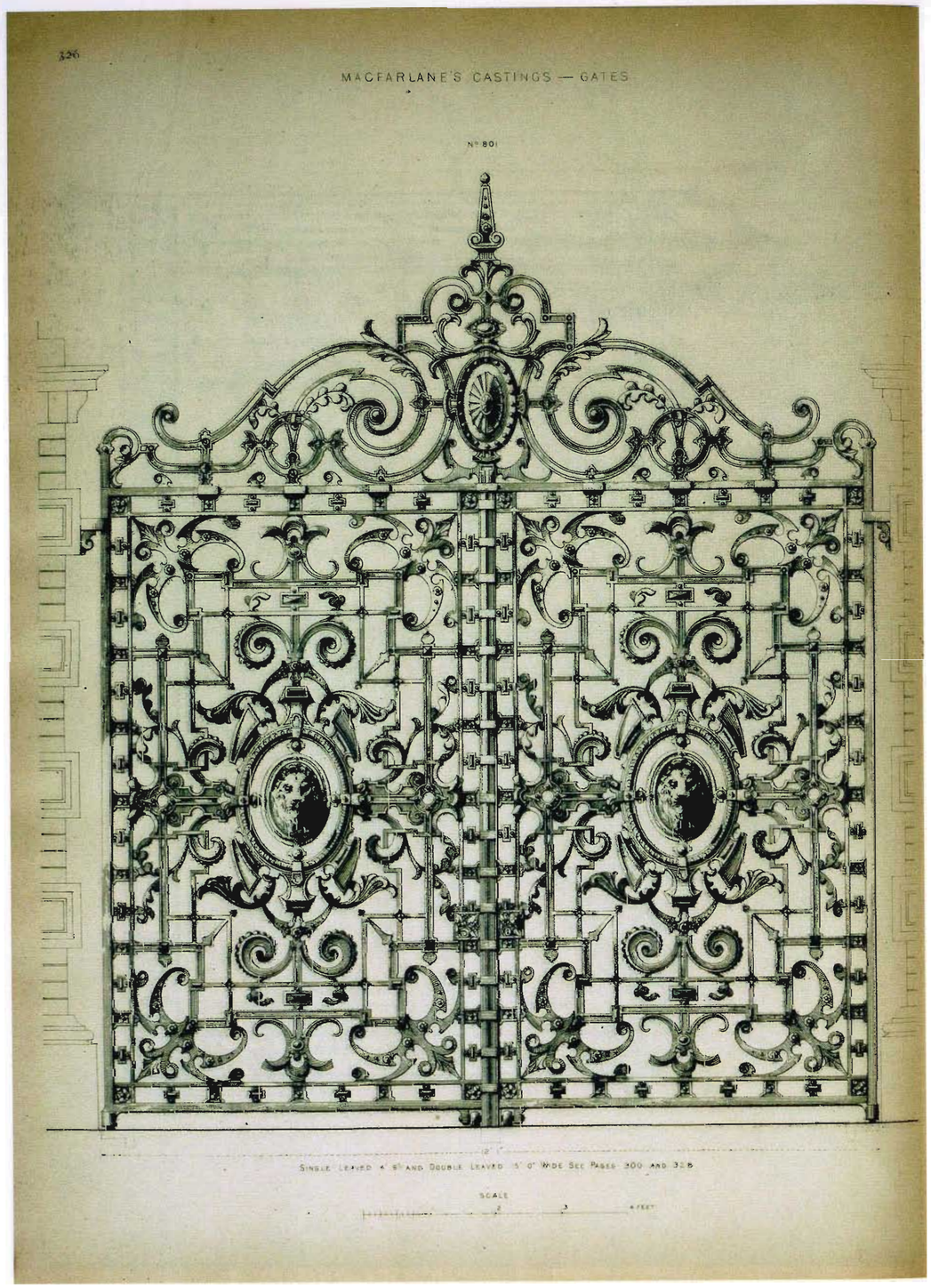

321
MACFARLANE'S CASTINGS — GATES
No 1127
SCALE
4 FEET

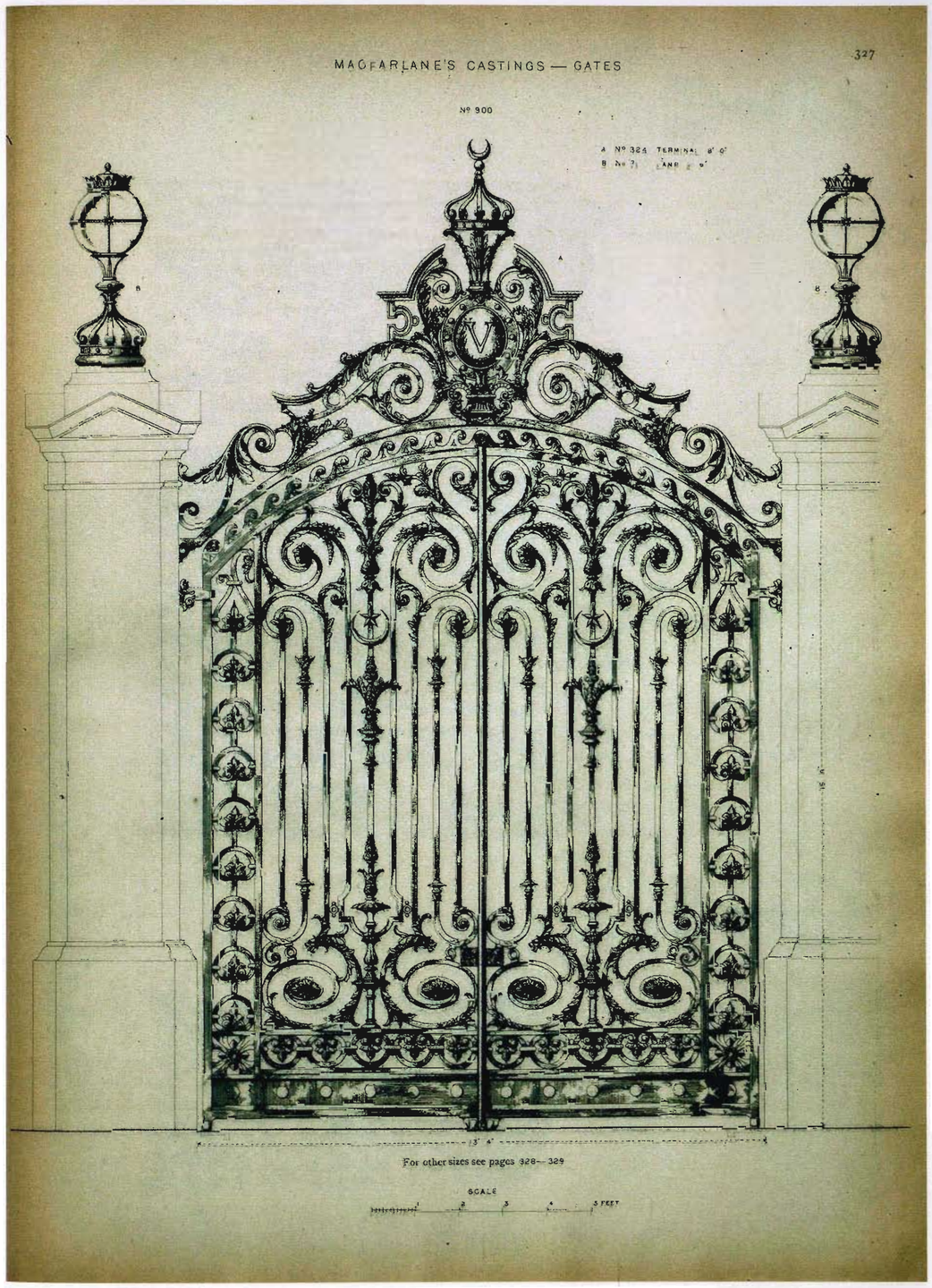

322
MACFARLANE'S CASTINGS — GATES
No 1151
SINGLE LEAVED 3' 7" SEE PAGE 300
Gate Standards priced separately.—For other designs see pages 334 to 339.
SCALE
4 FEET

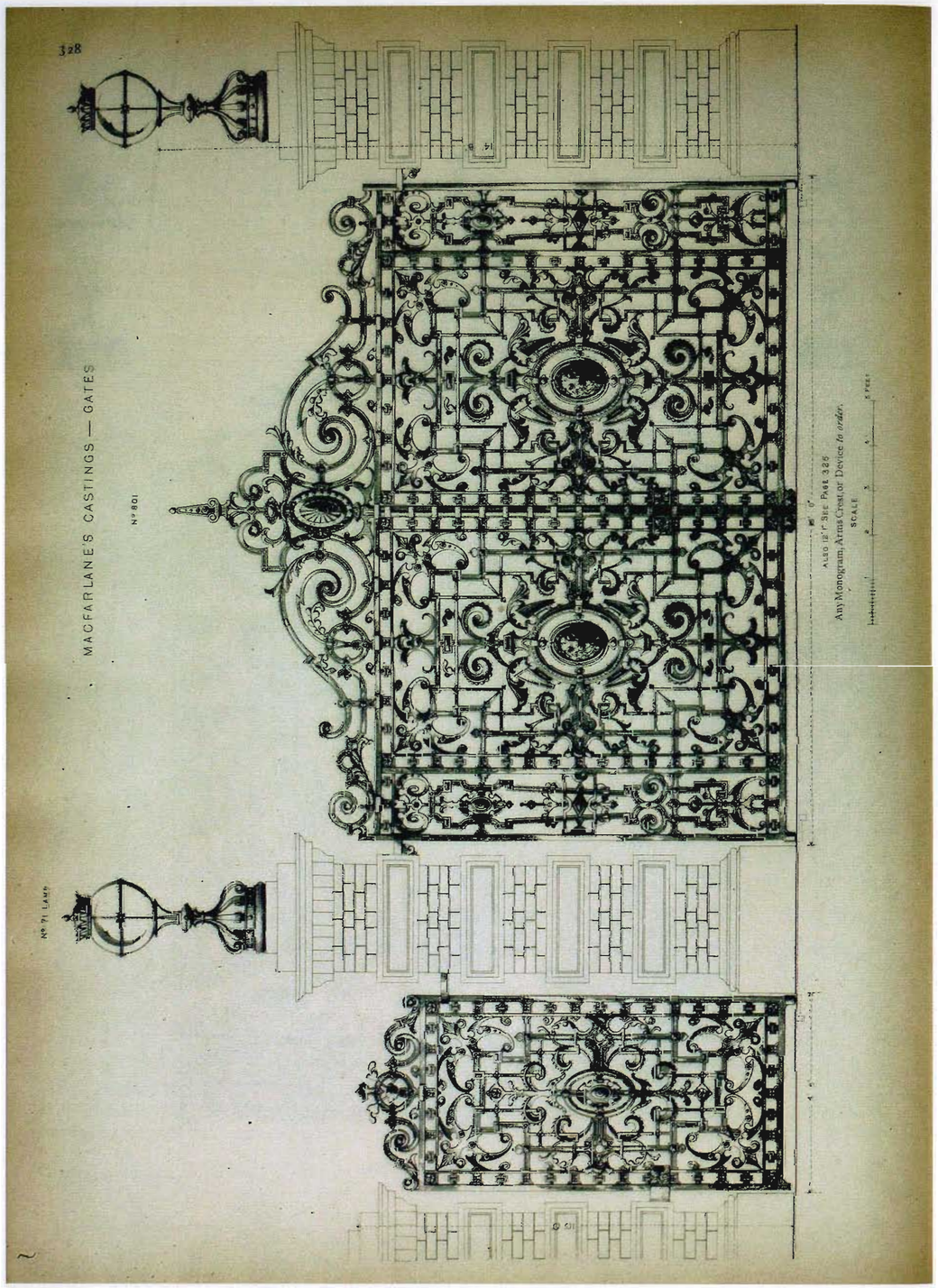

323
MACFARLANE'S CASTINGS — GATES
SINGLE LEAVED 4' 2" AND 4' 6" HIGH
Gate Standards priced separately.—For other designs see pages 334 to 339.
SCALE
4 FEET

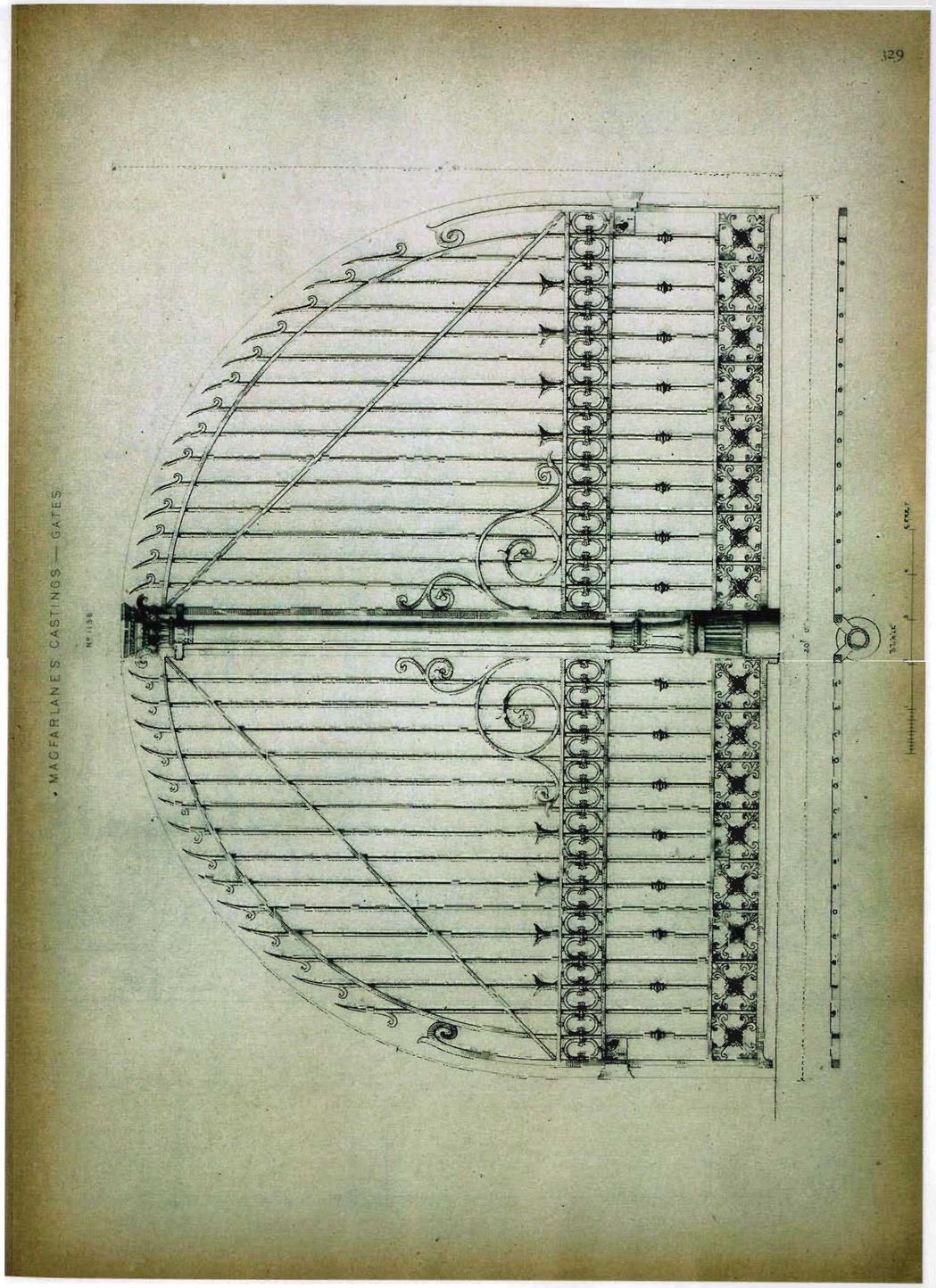

324
MACFARLANE'S CASTINGS — GATES
No 461
SINGLE LEAVED 4' 0" SEE PAGE 299
SCALE
4 FEET


325
MACFARLANE'S CASTINGS — GATES
No 461
SINGLE LEAVED 4' 0" SEE PAGE 299
SCALE
4 FEET


326
MACFARLANE'S CASTINGS — GATES
No 801
SINGLE LEAVED 4' 8" AND DOUBLE LEAVED 5' 0" WIDE SEE PAGES 300 AND 328
SCALE
1 2 3 4 FEET


MACFARLANE'S CASTINGS — GATES
327
No 900
A No 324 TERMINAL 8' 0"
B No 71 LAND
13' 4"
For other sizes see pages 328— 329
SCALE
1 2 3 4 5 FEET


328
MACFARLANE'S CASTINGS — GATES
No 901
No 71 LAMP
ALSO 12 1/2" SEE PAGE 326
Any Monogram, Arms Crest or Device to order.
SCALE
3 FEET

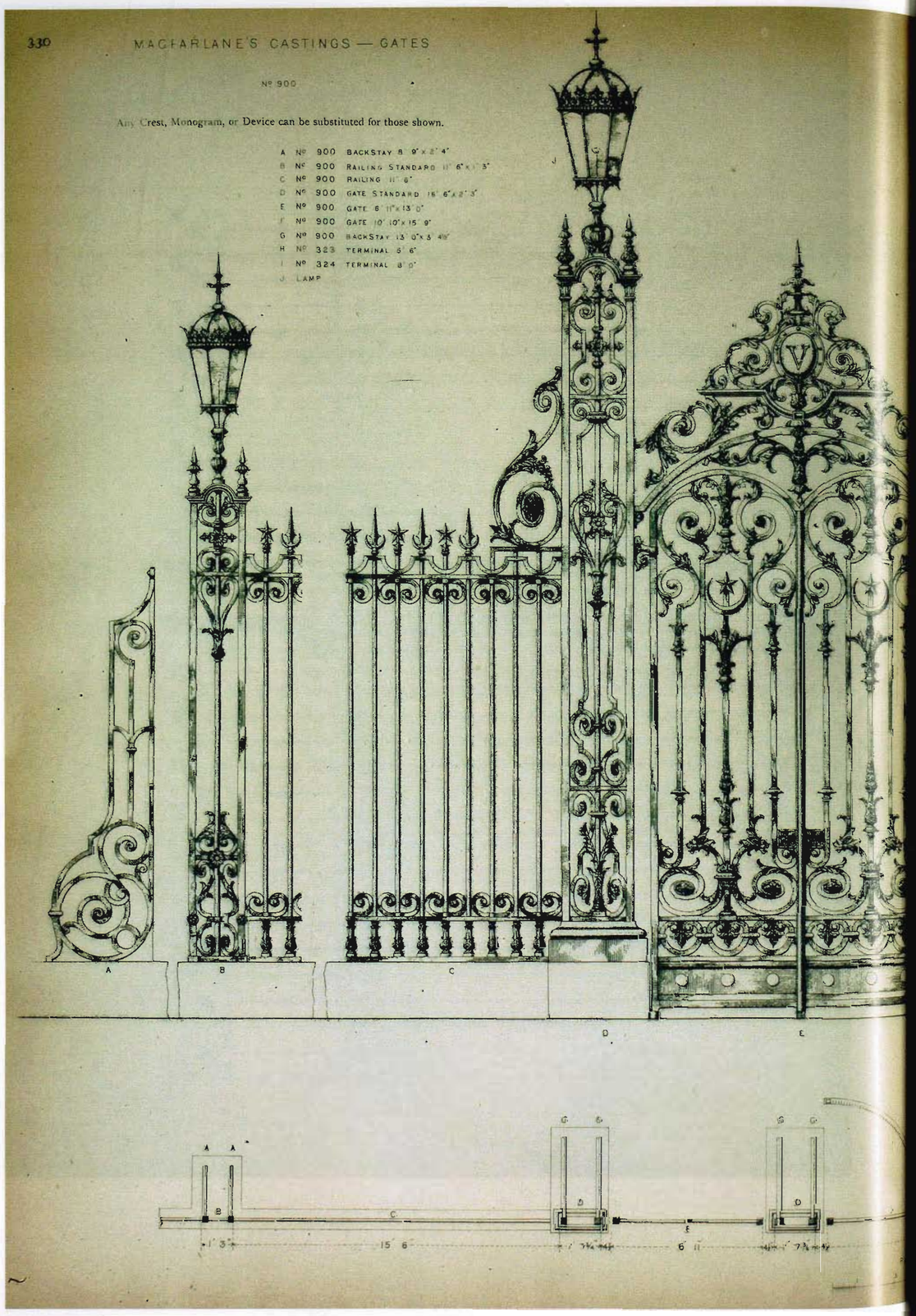

329
MACFARLANE'S CASTINGS — GATES
No 136
SCALE

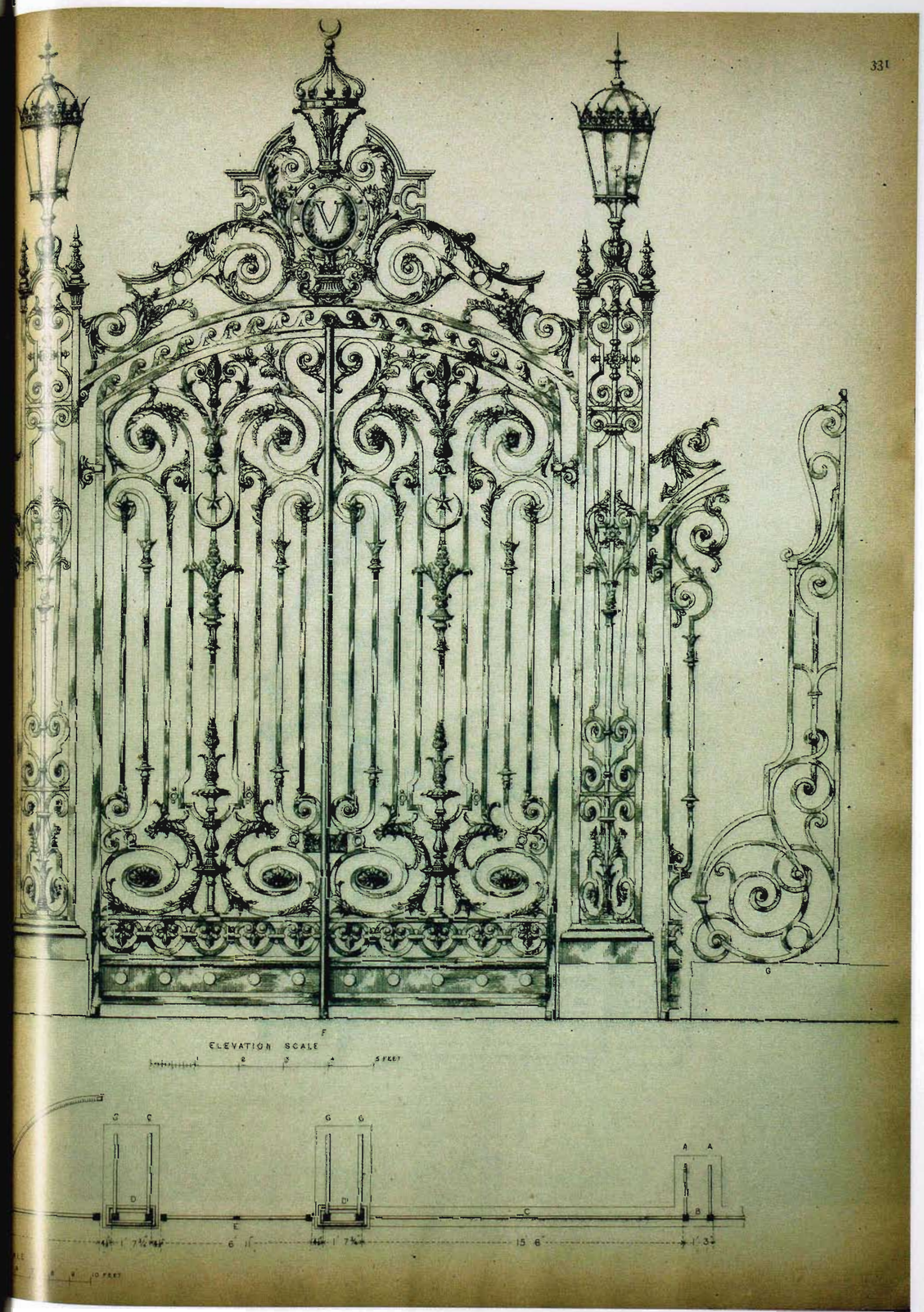
MACFARLANE'S CASTINGS — GATES

Nº 900

Any Crest, Monogram, or Device can be substituted for those shown.

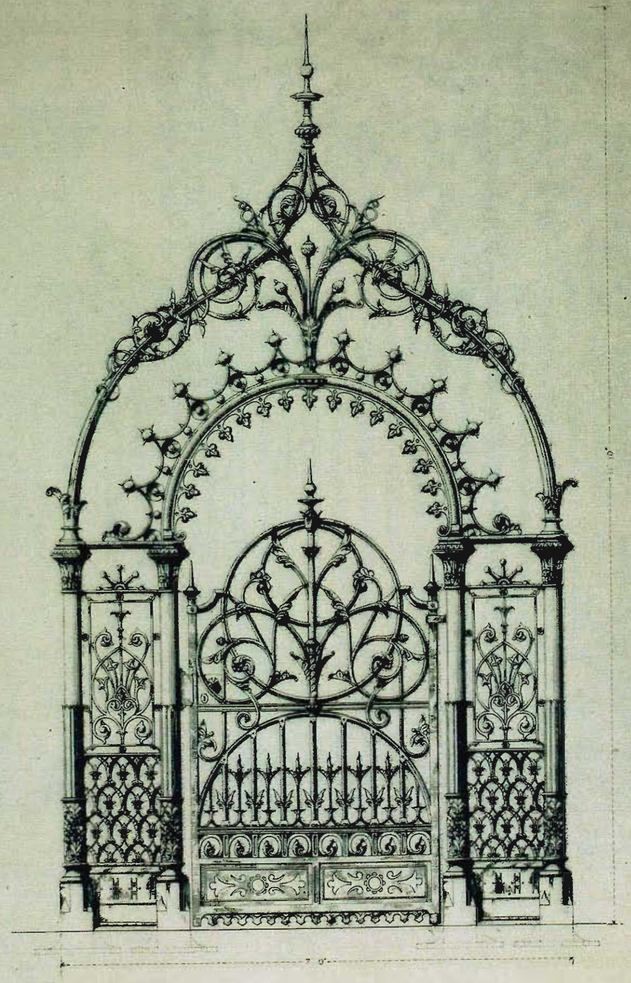
A Nº 900 BACKSTAY 8' 9" x 2" 4"
B Nº 900 RAILING STANDARD 11' 6" x 1" 3"
C Nº 900 RAILING 11' 6"
D Nº 900 GATE STANDARD 15' 6" x 2" 3"
E Nº 900 GATE 6' 11" x 13' 0"
F Nº 900 GATE 10' 10" x 15' 9"
G Nº 900 BACKSTAY 13' 0" x 3" 4½"
H Nº 323 TERMINAL 5' 6"
I Nº 324 TERMINAL 8' 0"
J LAMP





MACFARLANE'S CASTINGS — GATES

Nº 845

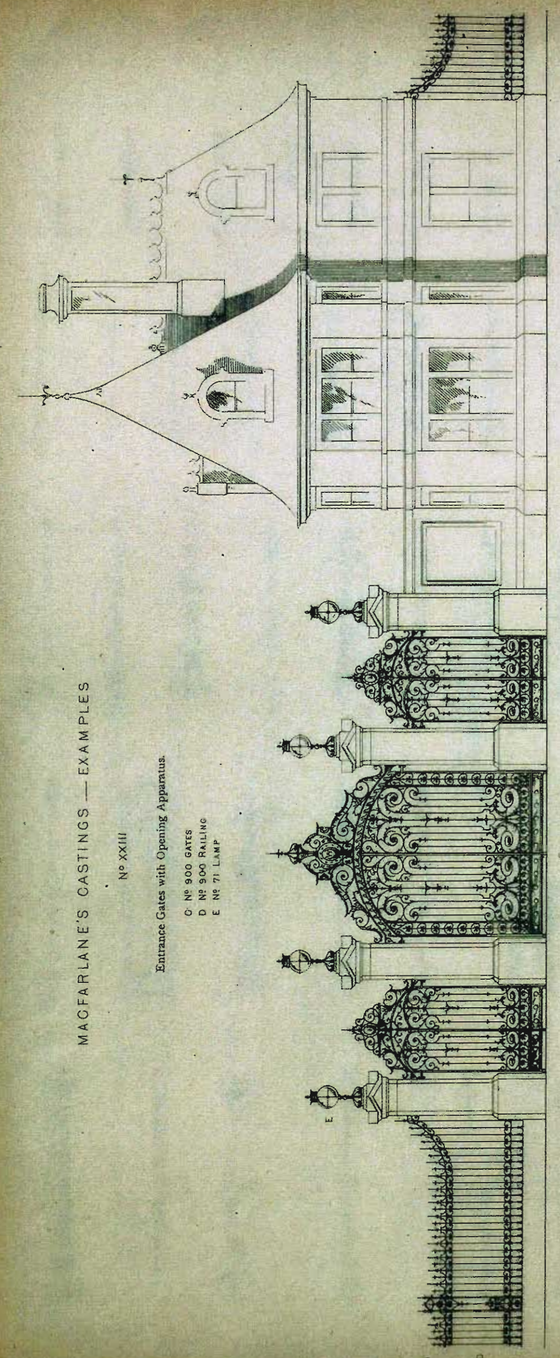


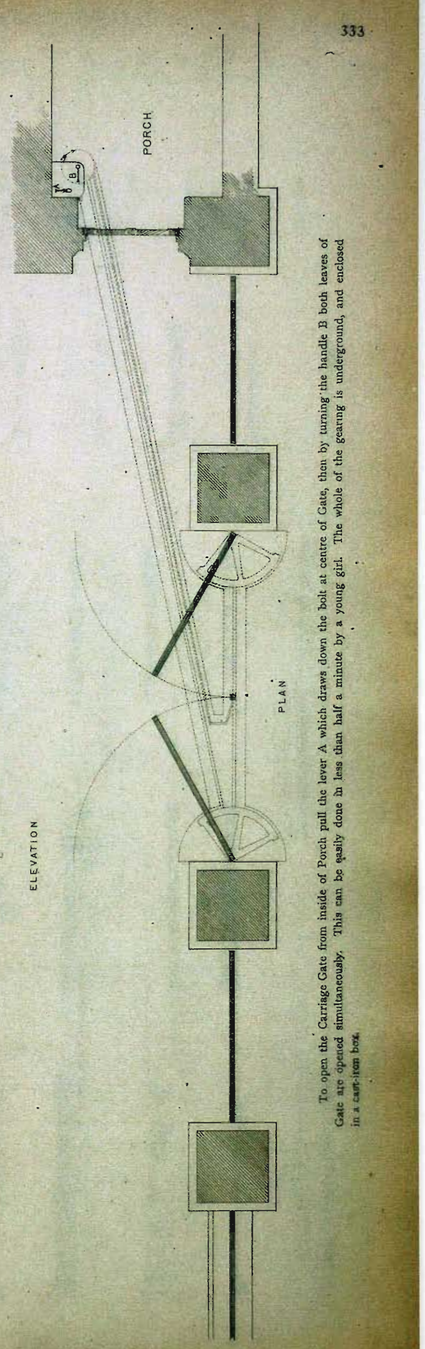
MACFARLANE'S CASTINGS — EXAMPLES

Nº XXIII

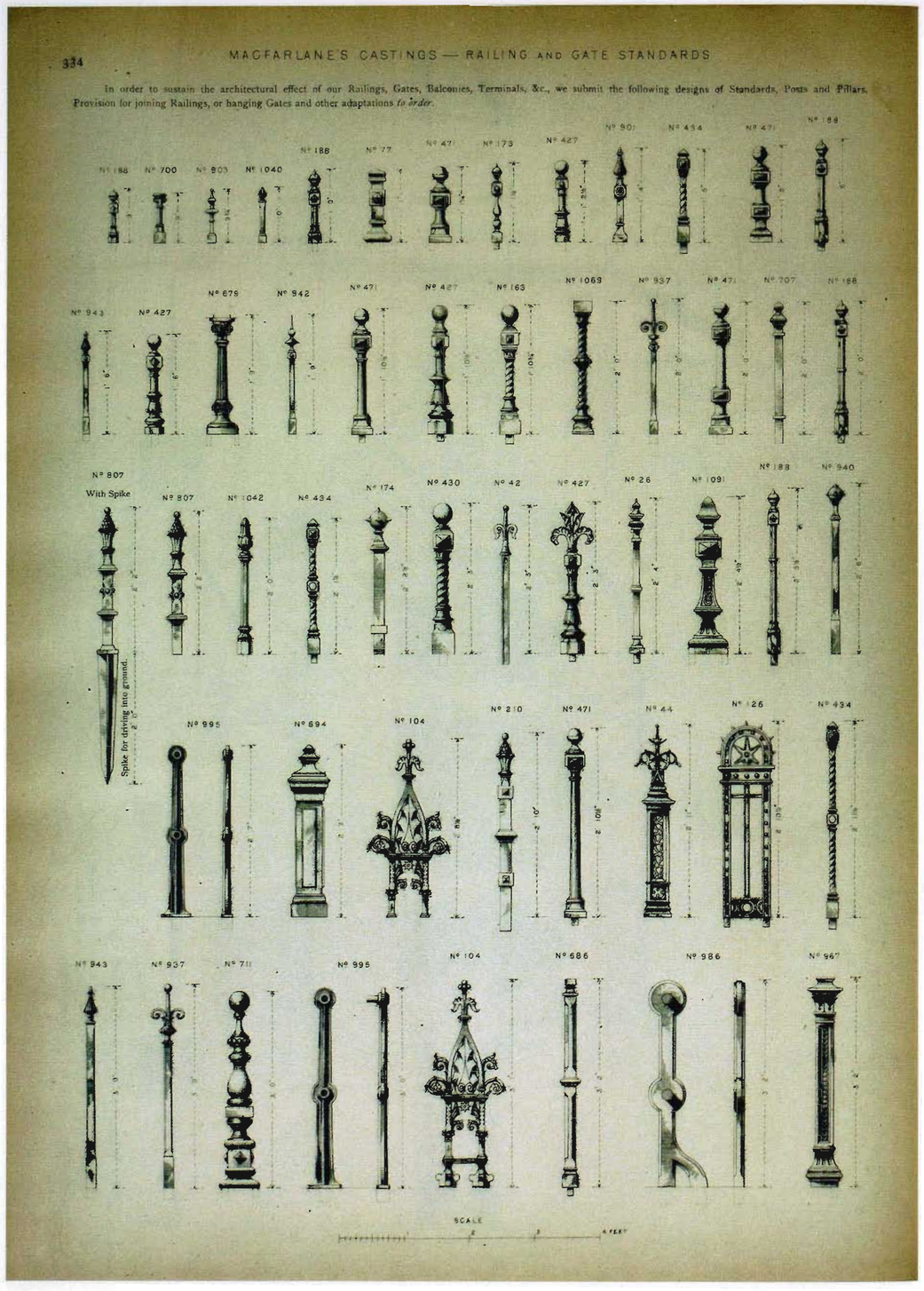
Entrance Gates with Opening Apparatus.

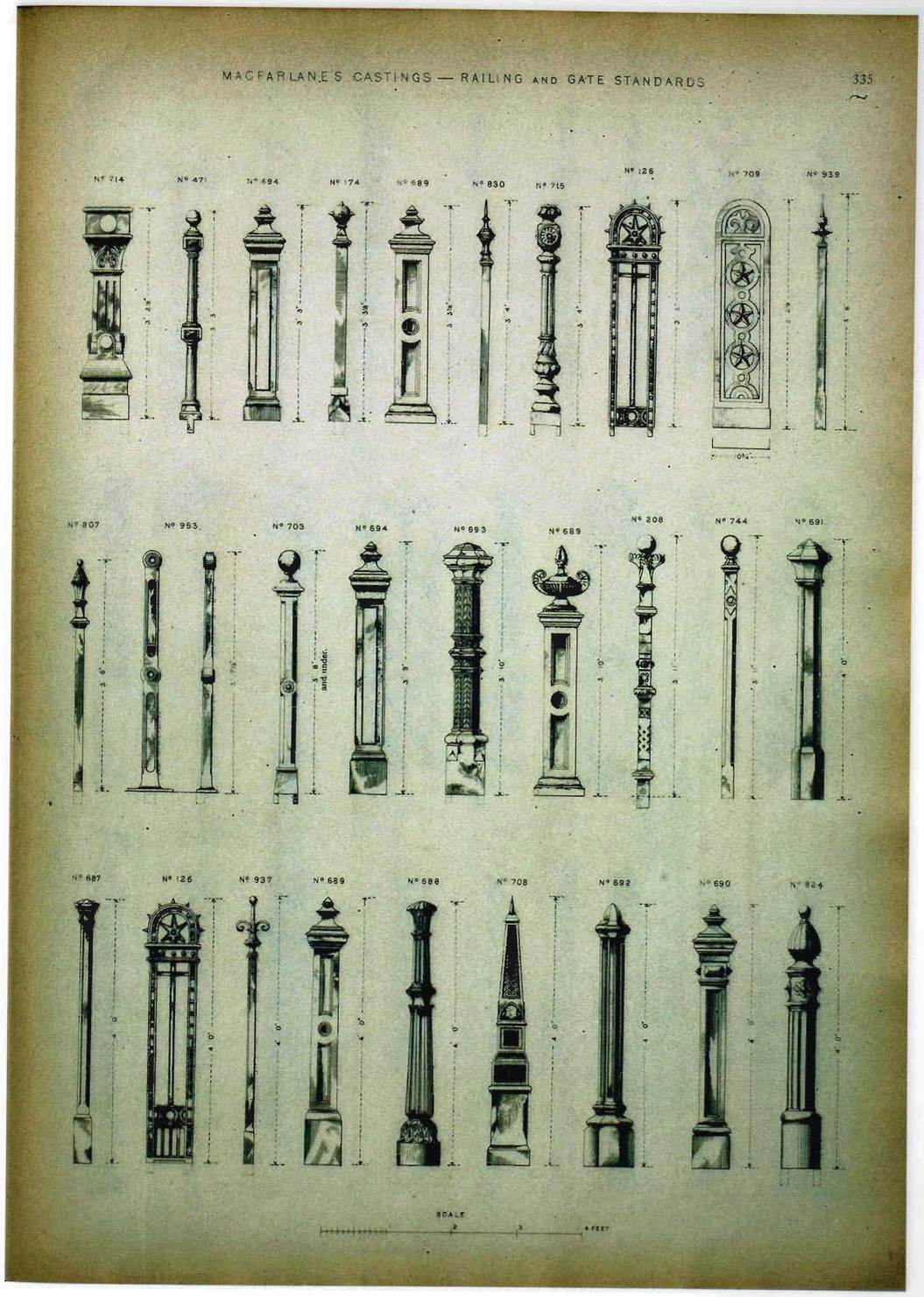
C Nº 900 GATE
D Nº 900 RAILING
E Nº 71 LAMP

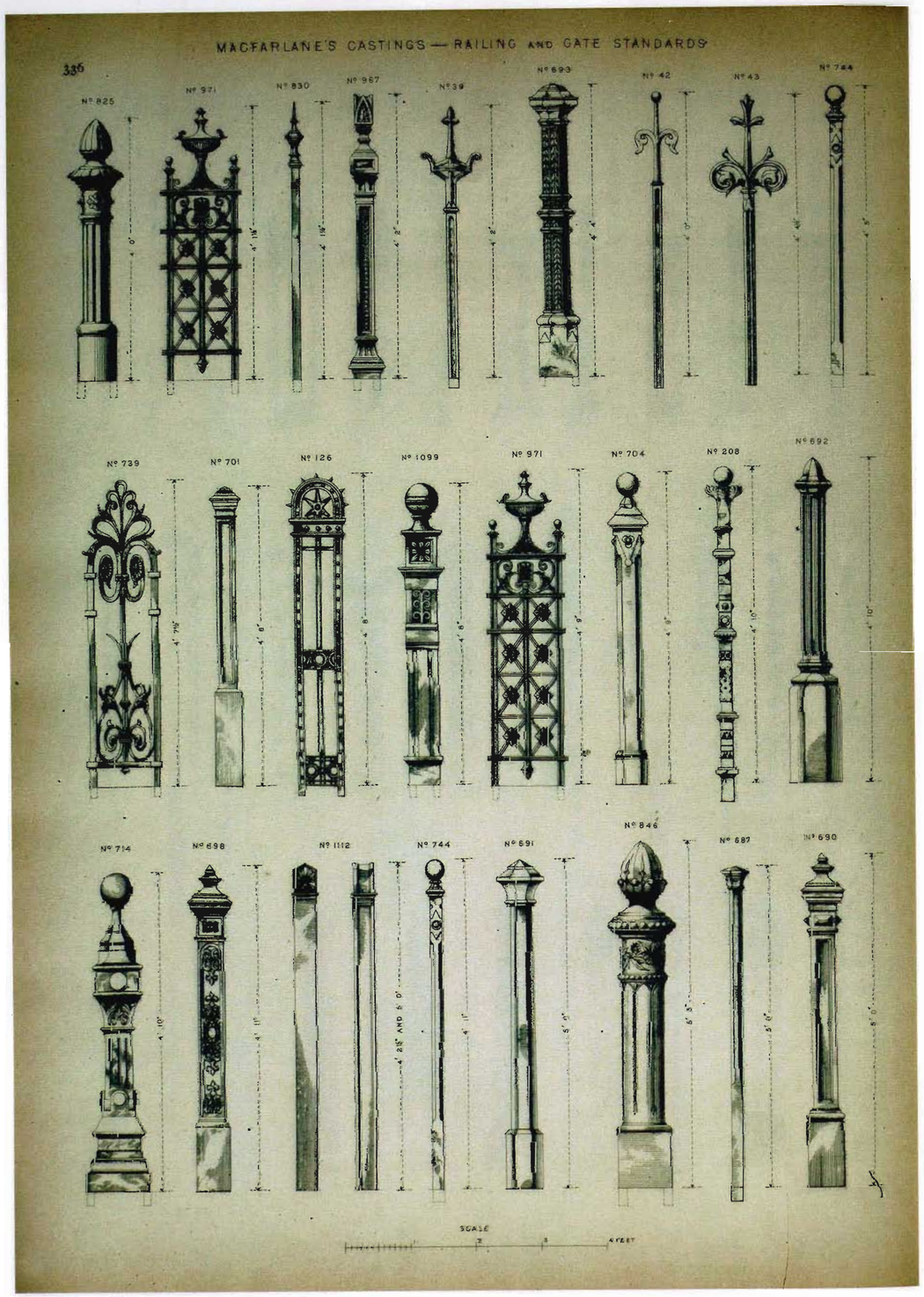


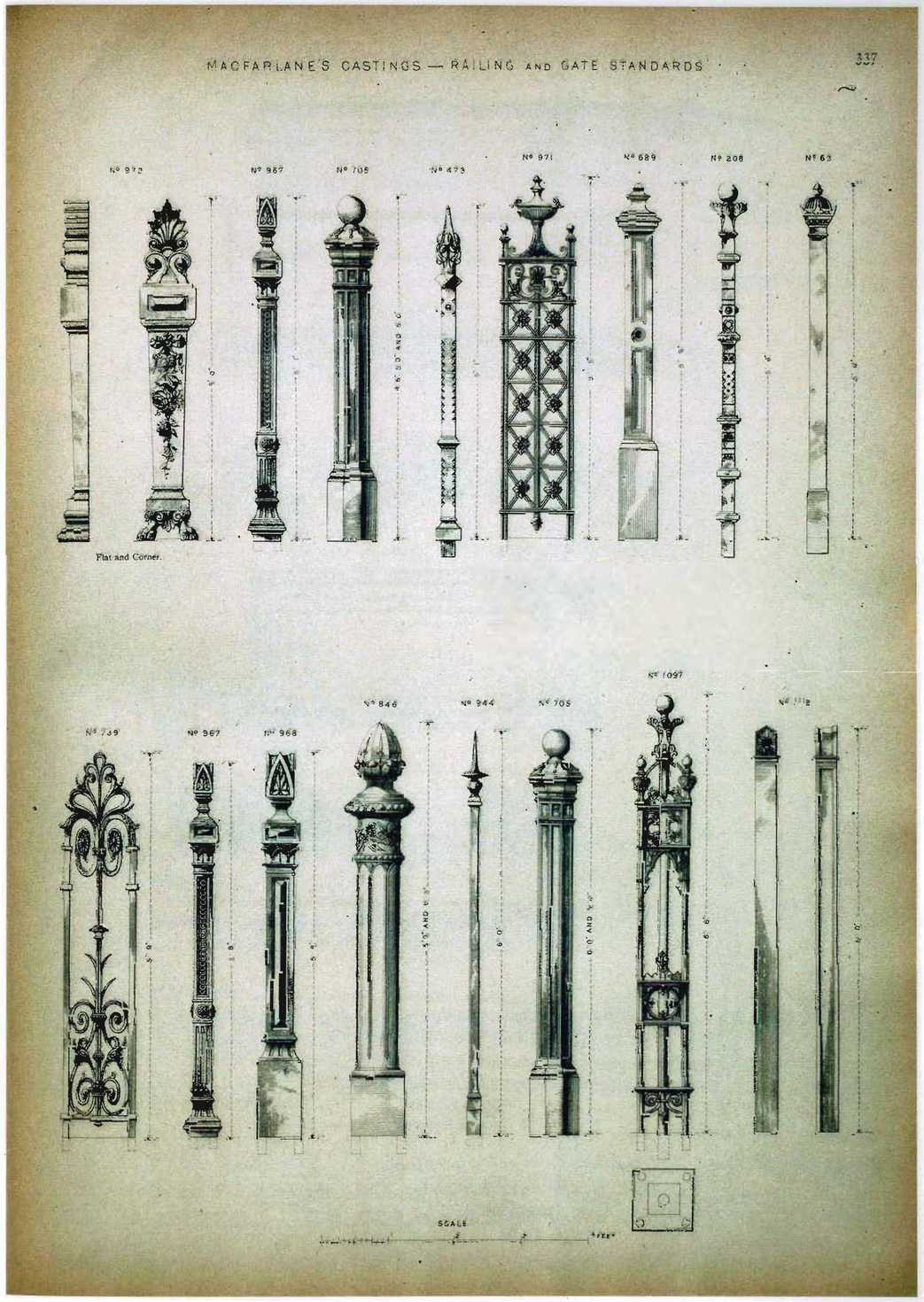


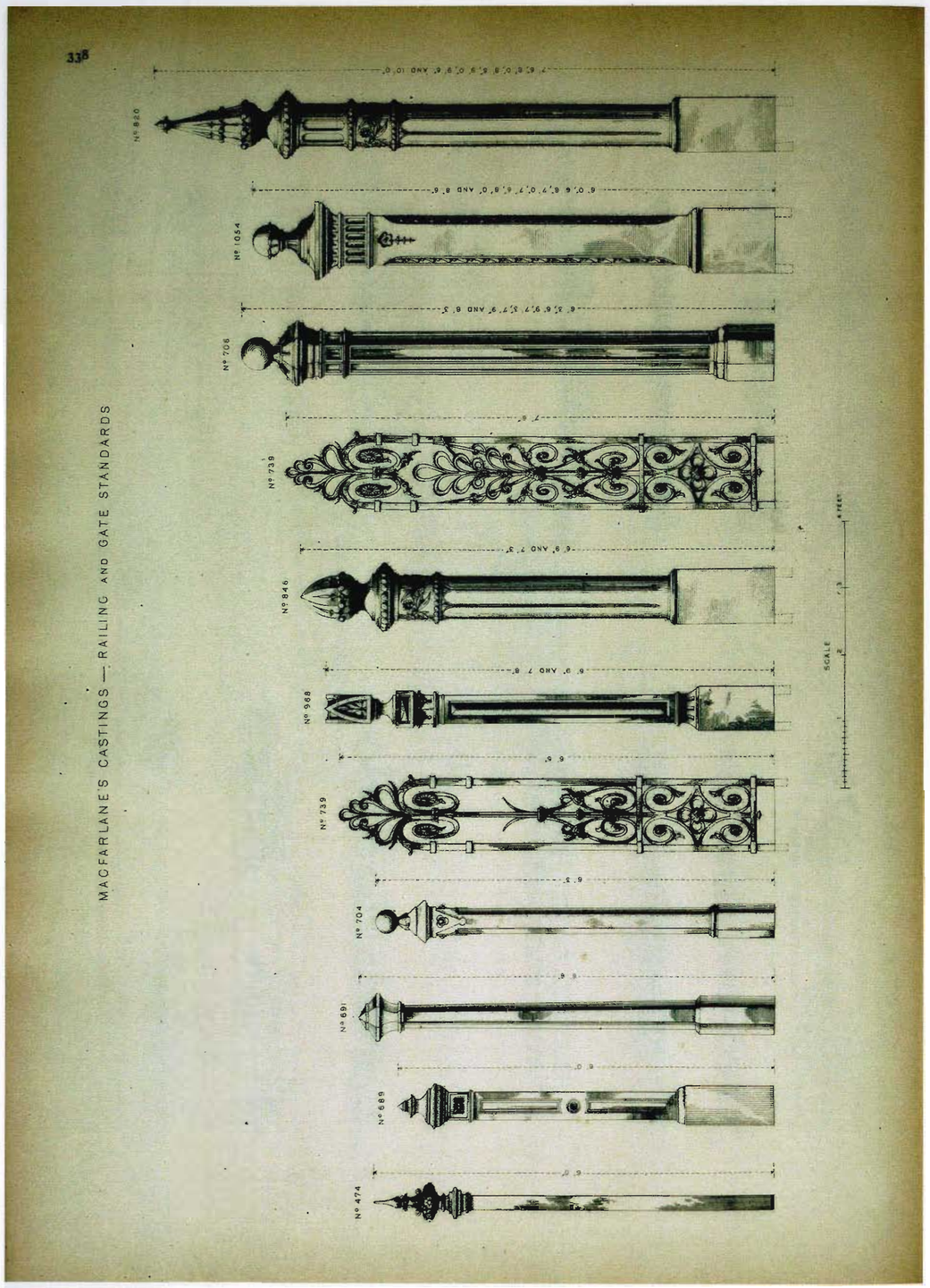
To open the Carriage Gate from inside of Porch pull the lever A which draws down the bolt at centre of Gate, then by turning the handle B both leaves of Gate are opened simultaneously. This can be easily done in less than half a minute by a young girl. The whole of the gearing is underground, and enclosed in a cast-iron box.

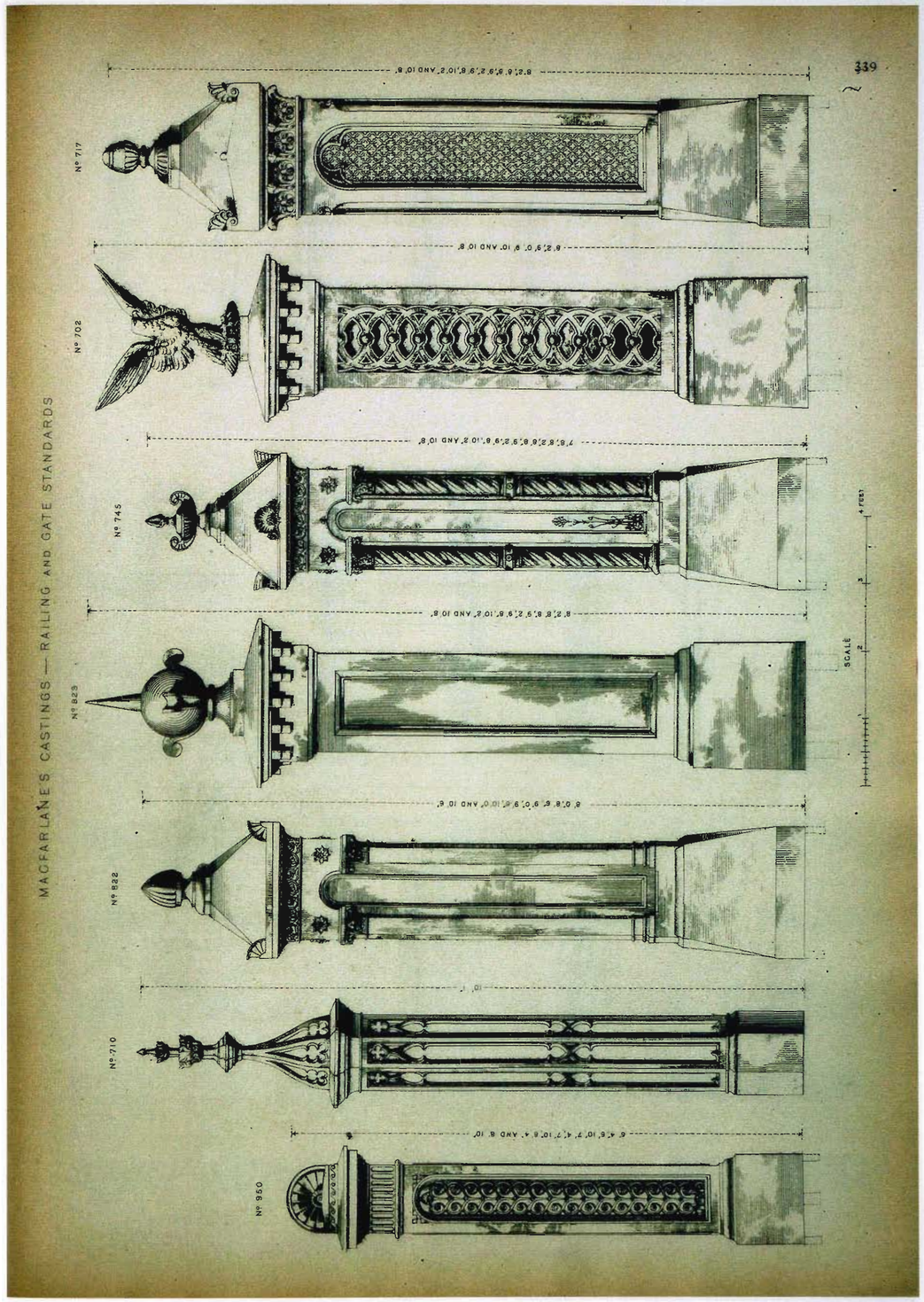

334
MACFARLANE'S CASTINGS — RAILING AND GATE STANDARDS
In order to sustain the architectural effect of our Railings, Gates, Balconies, Terminals, &c., we submit the following designs of Standards, Posts and Pillars. Provision for joining Railings, or hanging Gates and other adaptations *to order*.
Nº 188
Nº 700
Nº 803
Nº 1040
Nº 188
Nº 77
Nº 471
Nº 173
Nº 427
Nº 901
Nº 434
Nº 471
Nº 188
Nº 943
Nº 427
Nº 679
Nº 942
Nº 471
Nº 427
Nº 163
Nº 1069
Nº 937
Nº 471
Nº 707
Nº 188
Nº 807
With Spike
Nº 807
Nº 1042
Nº 434
Nº 174
Nº 430
Nº 42
Nº 427
Nº 26
Nº 1091
Nº 188
Nº 940
Spike for driving into ground.
Nº 995
Nº 694
Nº 104
Nº 210
Nº 471
Nº 44
Nº 126
Nº 434
Nº 943
Nº 937
Nº 711
Nº 995
Nº 104
Nº 686
Nº 986
Nº 967
SCALE
4 FEET


MACFARLANE'S CASTINGS — RAILING AND GATE STANDARDS
335
Nº 714
Nº 471
Nº 694
Nº 174
Nº 689
Nº 830
Nº 715
Nº 126
Nº 709
Nº 939
Nº 807
Nº 953
Nº 703
Nº 694
Nº 693
Nº 689
Nº 208
Nº 744
Nº 691
and under.
Nº 687
Nº 126
Nº 937
Nº 689
Nº 688
Nº 708
Nº 692
Nº 690
Nº 824
SCALE
4 FEET


MACFARLANE'S CASTINGS — RAILING AND GATE STANDARDS
336
Nº 825
Nº 971
Nº 830
Nº 967
Nº 39
Nº 693
Nº 42
Nº 43
Nº 744
Nº 739
Nº 701
Nº 126
Nº 1099
Nº 971
Nº 704
Nº 208
Nº 692
Nº 714
Nº 698
Nº 1112
Nº 744
Nº 691
Nº 846
Nº 687
Nº 690
SCALE
FEET

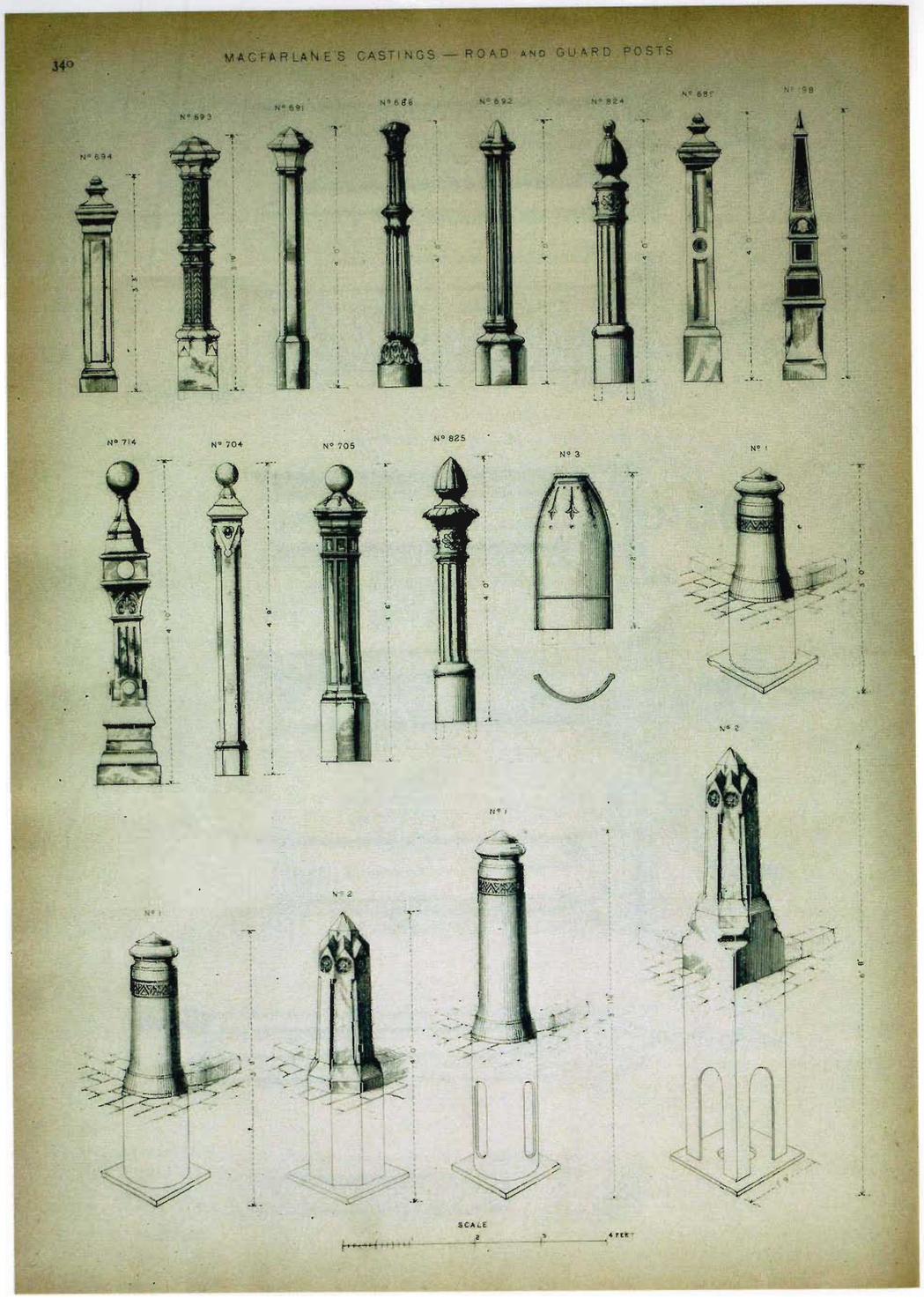

MACFARLANE'S CASTINGS — RAILING AND GATE STANDARDS
337
Nº 972
Nº 967
Nº 705
Nº 473
Nº 971
Nº 689
Nº 208
Nº 63
Flat and Corner.
Nº 1097
Nº 739
Nº 967
Nº 968
Nº 846
Nº 944
Nº 705
Nº 1112
SCALE
FEET


338
MACFARLANE'S CASTINGS — RAILING AND GATE STANDARDS
SCALE
1 FOOT
Nº 820
Nº 1054
Nº 706
Nº 739
Nº 846
Nº 968
Nº 739
Nº 704
Nº 691
Nº 688
Nº 474


339
MACFARLANE'S CASTINGS — RAILING AND GATE STANDARDS
SCALE
1 FOOT
Nº 717
Nº 702
Nº 745
Nº 823
Nº 822
Nº 710
Nº 950

340

MACFARLANE'S CASTINGS — ROAD AND GUARD POSTS



SECTION VII.—PANELS AND GRATINGS.

341

FOR VENTILATION, LIGHT, VIEW, PROTECTION, AND ORNAMENT.

The benefits that result from changing the air of apartments, whether in dwellings, warehouses, stores, shops, or vessels, are becoming universally recognized, and in every building there are many places where openings for the passage of heat, light, and air are desirable, as in partitions, ceilings, fanlights, doors, closets, gates, shop windows, &c., and where it is also necessary to protect such openings to prevent the entrance of thieves or vermin. For such purposes, as well as for ornamental effect, iron is most suitable on account of its strength, durability and light appearance,—also for Gratings, over heating pipes and areas, and for balcony, engine-room, and gangway floors, &c. Many other suitable designs will be found in Section V.—Railing.

Please insert in Specification "**To be Macfarlane's Castings, from Saracen Foundry, Glasgow,**" to prevent an inferior article being supplied.

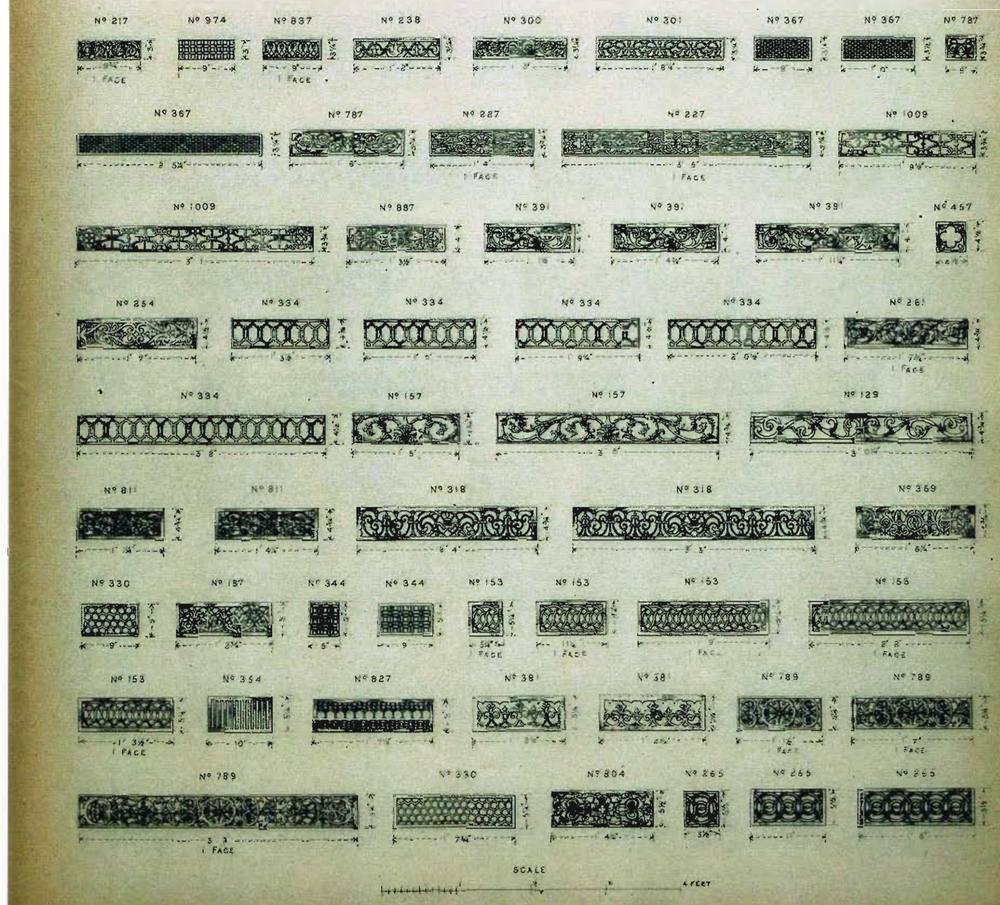
Rectangular Panels,	pages 341—355	Air Bricks,	pages 362
Circular Panels,	„ 356—357	Opening Ventilators,	„ 362
Semi-circular Panels,	„ 358—361	Floor Gratings,	„ 363—367
Triangular Panels,	„ 361	Floor Plates,	„ 366

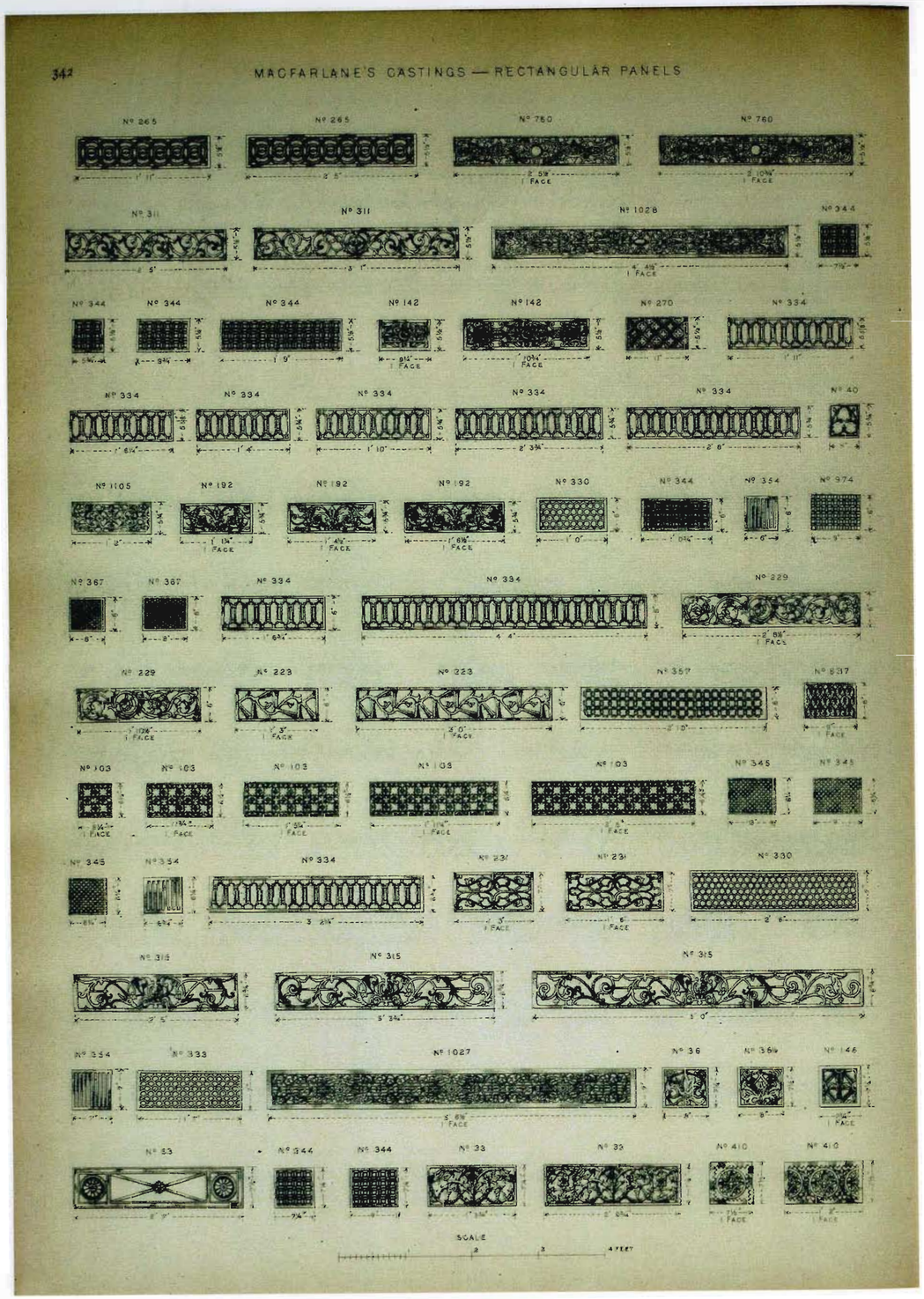
The Panels are arranged as a rule in the order of their heights, but many of the designs admit of either their length or their breadth being placed vertically. The Floor Gratings are arranged in the order of their breadth.

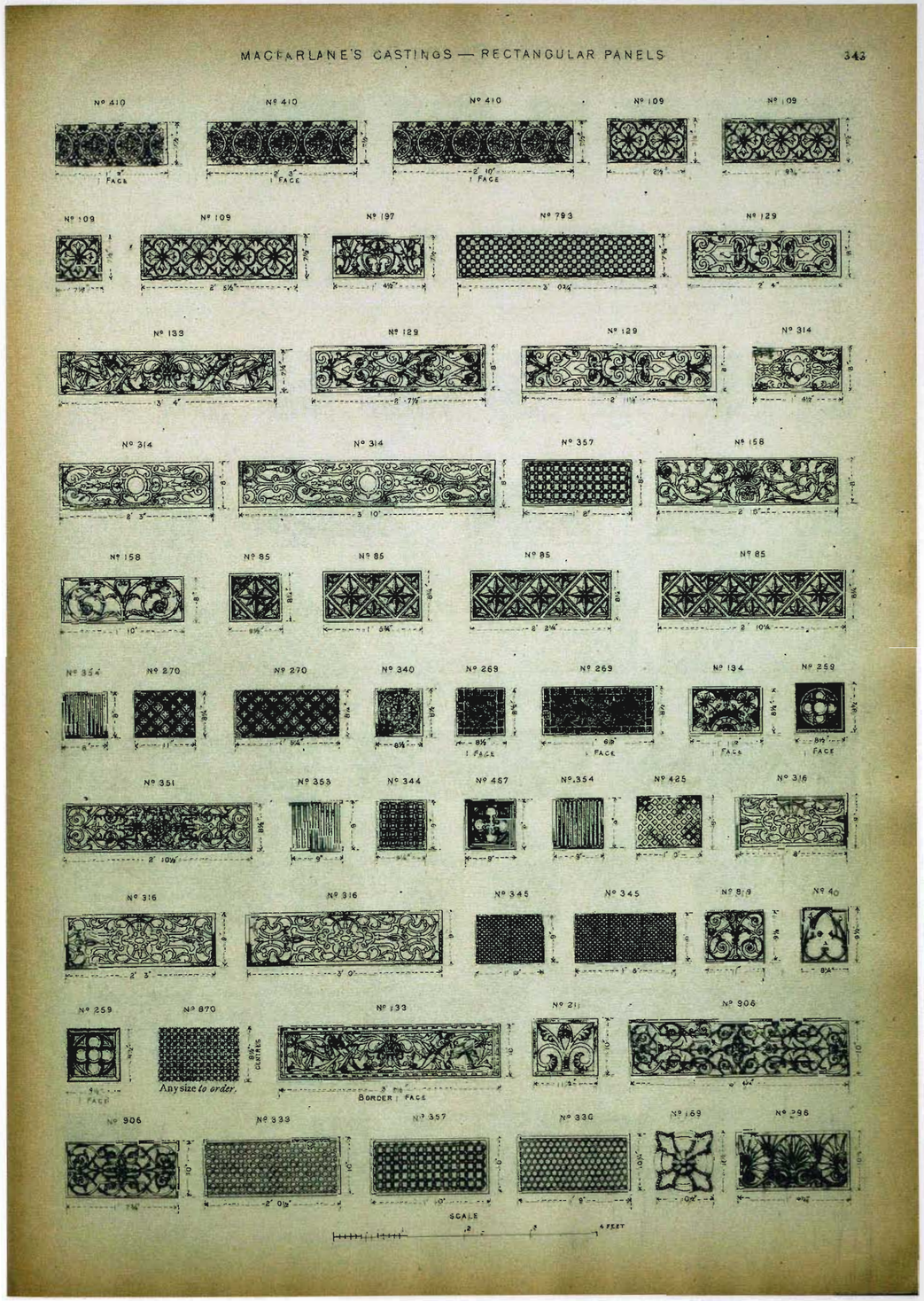
DIRECTIONS FOR ORDERING.

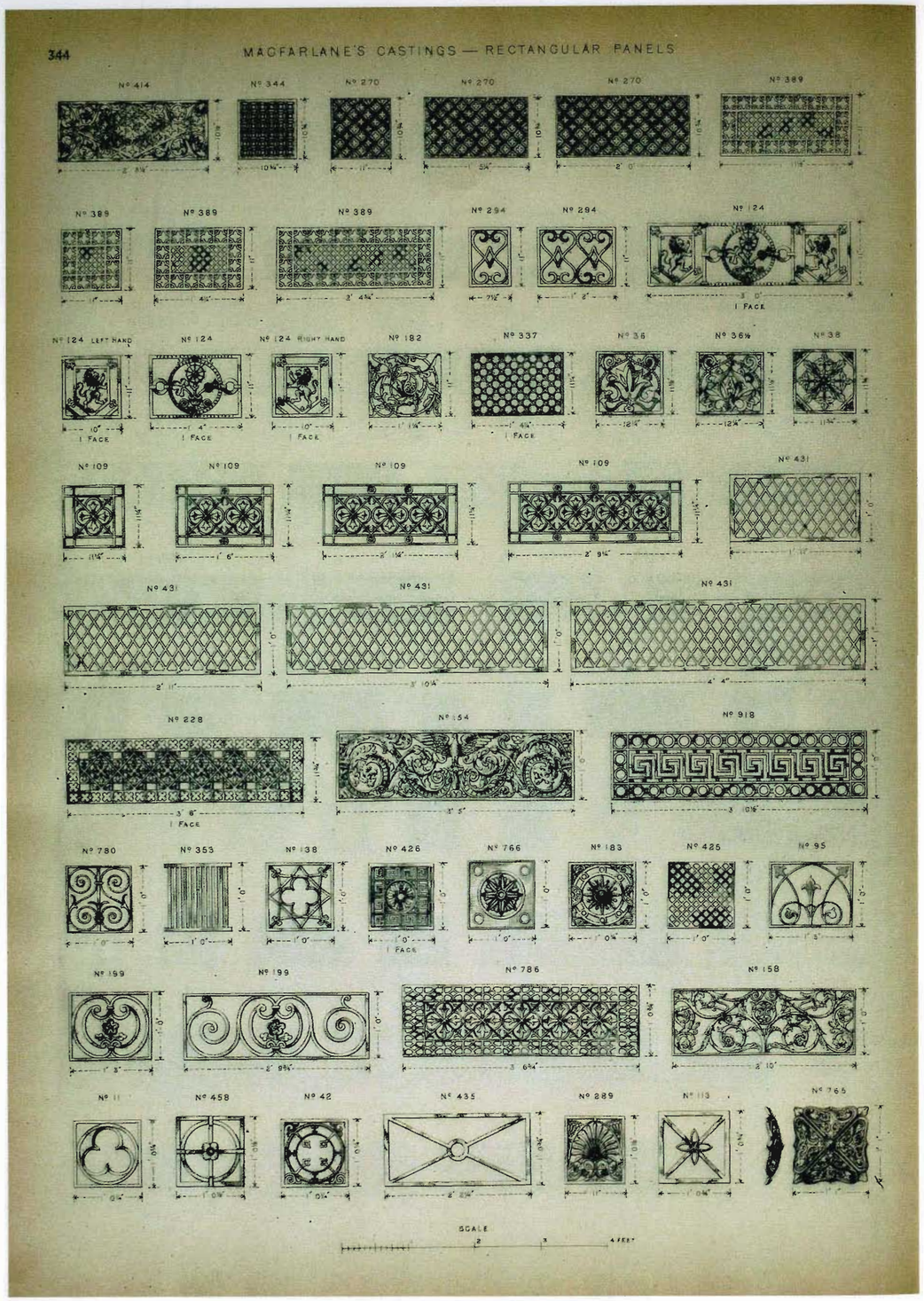
State the Nos. and sizes and the preparation for fixing required (if any), whether for wood or stone, and when necessary give rough sketch of the position the Panel is to occupy with exact measurements.

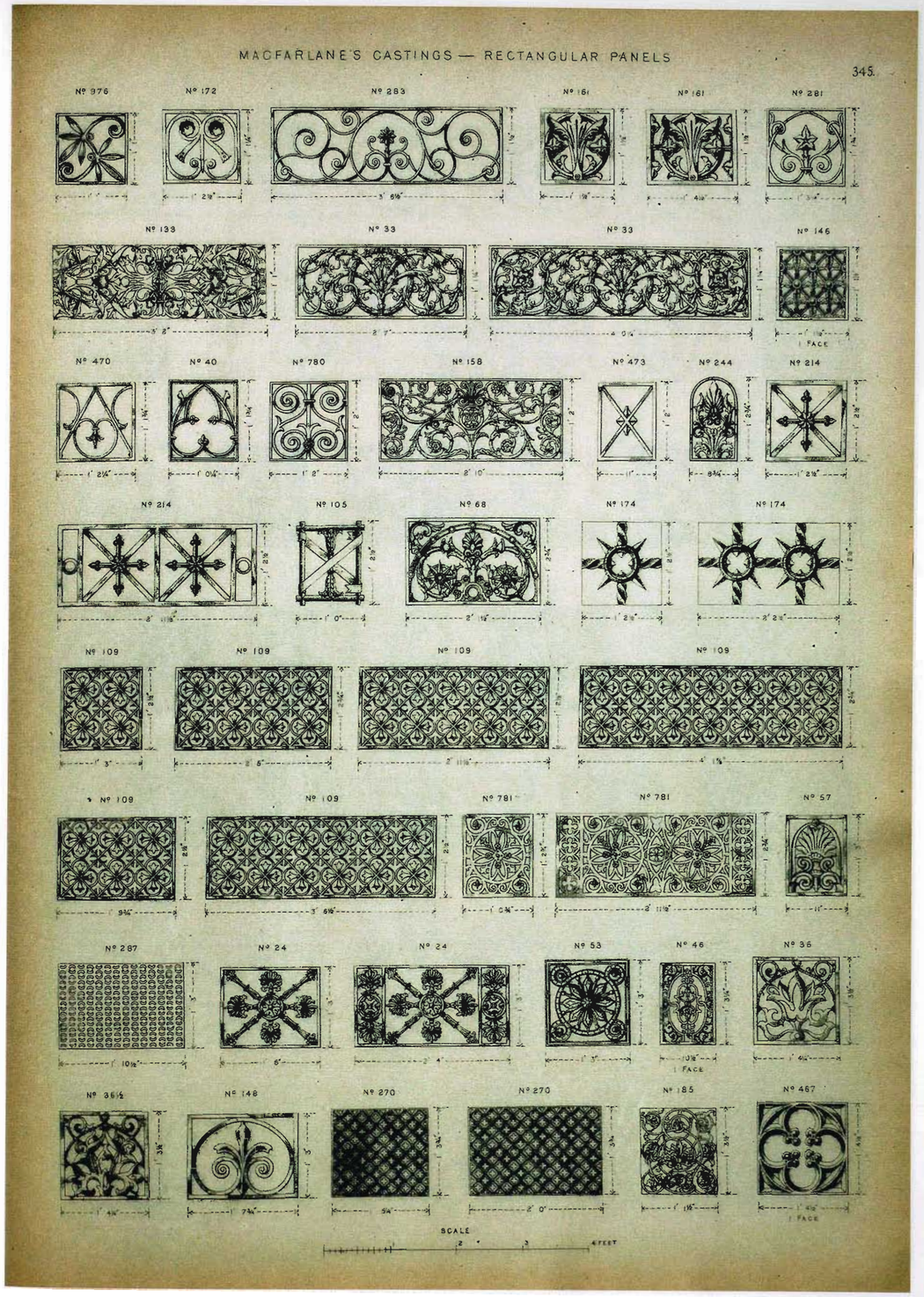
MACFARLANE'S CASTINGS — RECTANGULAR PANELS

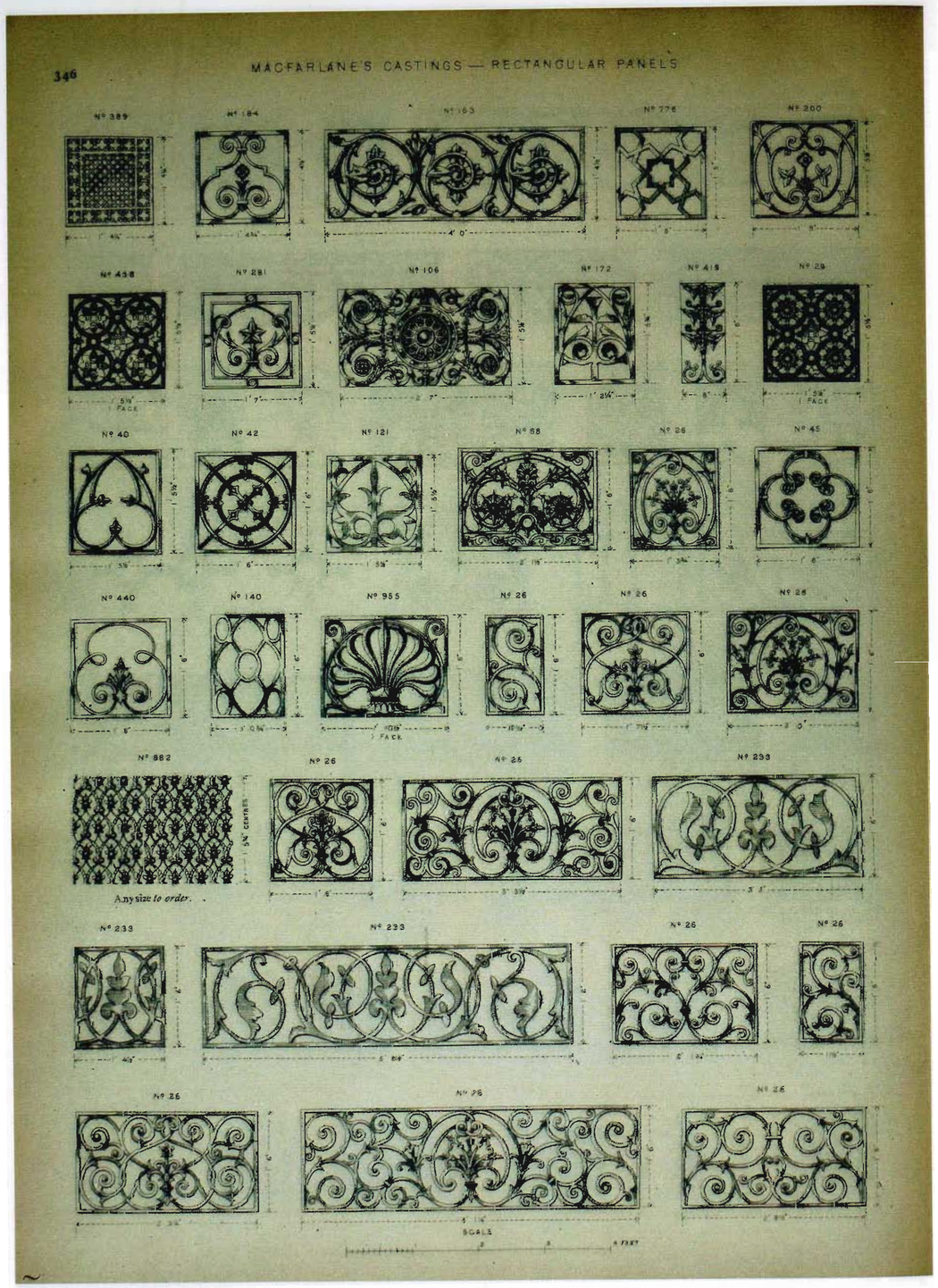


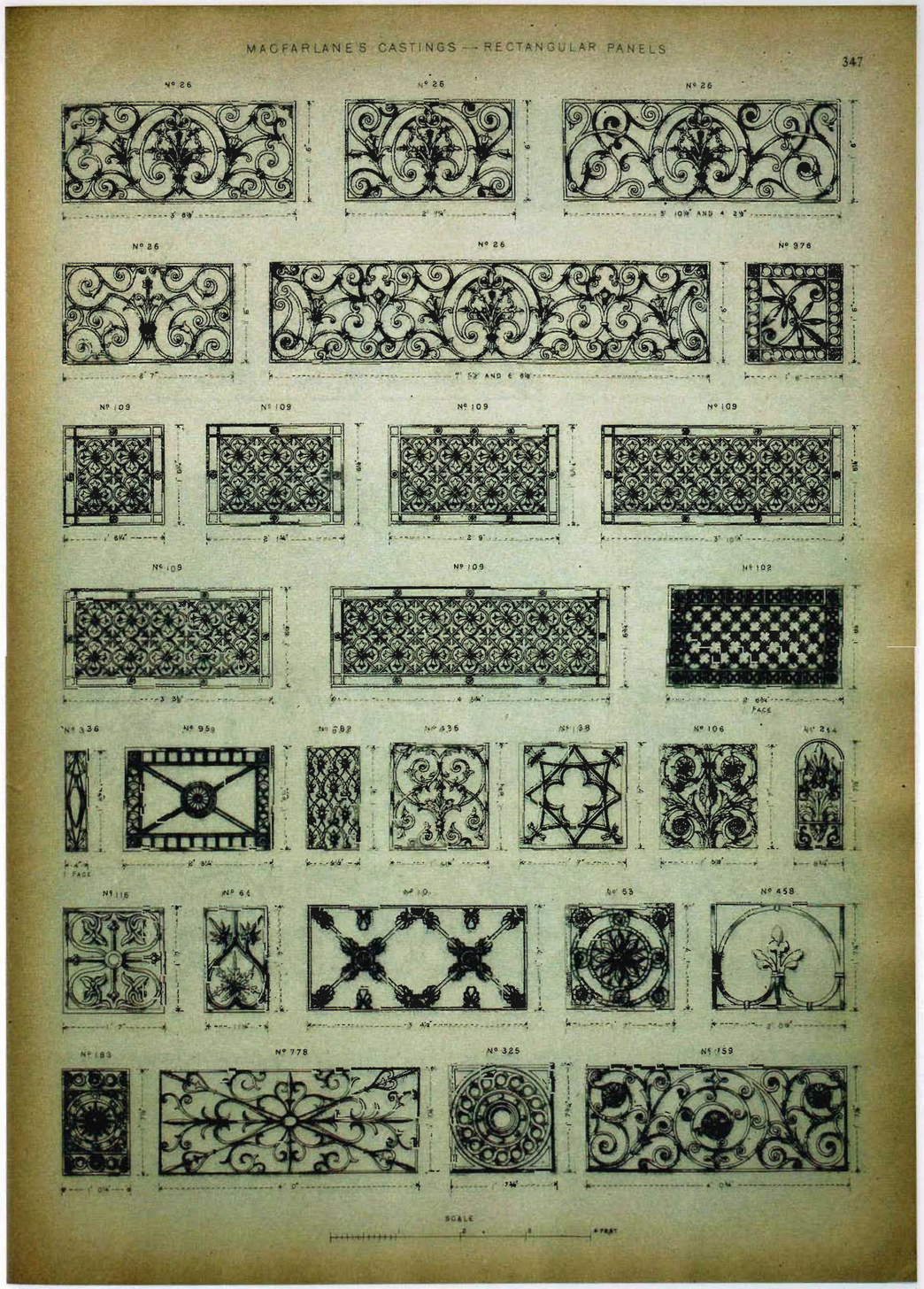

342
MACFARLANE'S CASTINGS — RECTANGULAR PANELS
Nº 265
Nº 265
Nº 760
Nº 760
Nº 311
Nº 311
Nº 1028
Nº 344
Nº 344
Nº 344
Nº 344
Nº 142
Nº 142
Nº 270
Nº 334
Nº 334
Nº 334
Nº 334
Nº 334
Nº 334
Nº 40
Nº 1105
Nº 192
Nº 192
Nº 192
Nº 330
Nº 344
Nº 354
Nº 374
Nº 367
Nº 387
Nº 334
Nº 334
Nº 229
Nº 229
Nº 223
Nº 223
Nº 357
Nº 8317
Nº 103
Nº 103
Nº 103
Nº 103
Nº 103
Nº 345
Nº 345
Nº 345
Nº 354
Nº 334
Nº 231
Nº 231
Nº 330
Nº 315
Nº 315
Nº 315
Nº 354
Nº 333
Nº 1027
Nº 36
Nº 36
Nº 146
Nº 83
Nº 344
Nº 344
Nº 33
Nº 33
Nº 410
Nº 410
SCALE
2
3
4 FEET

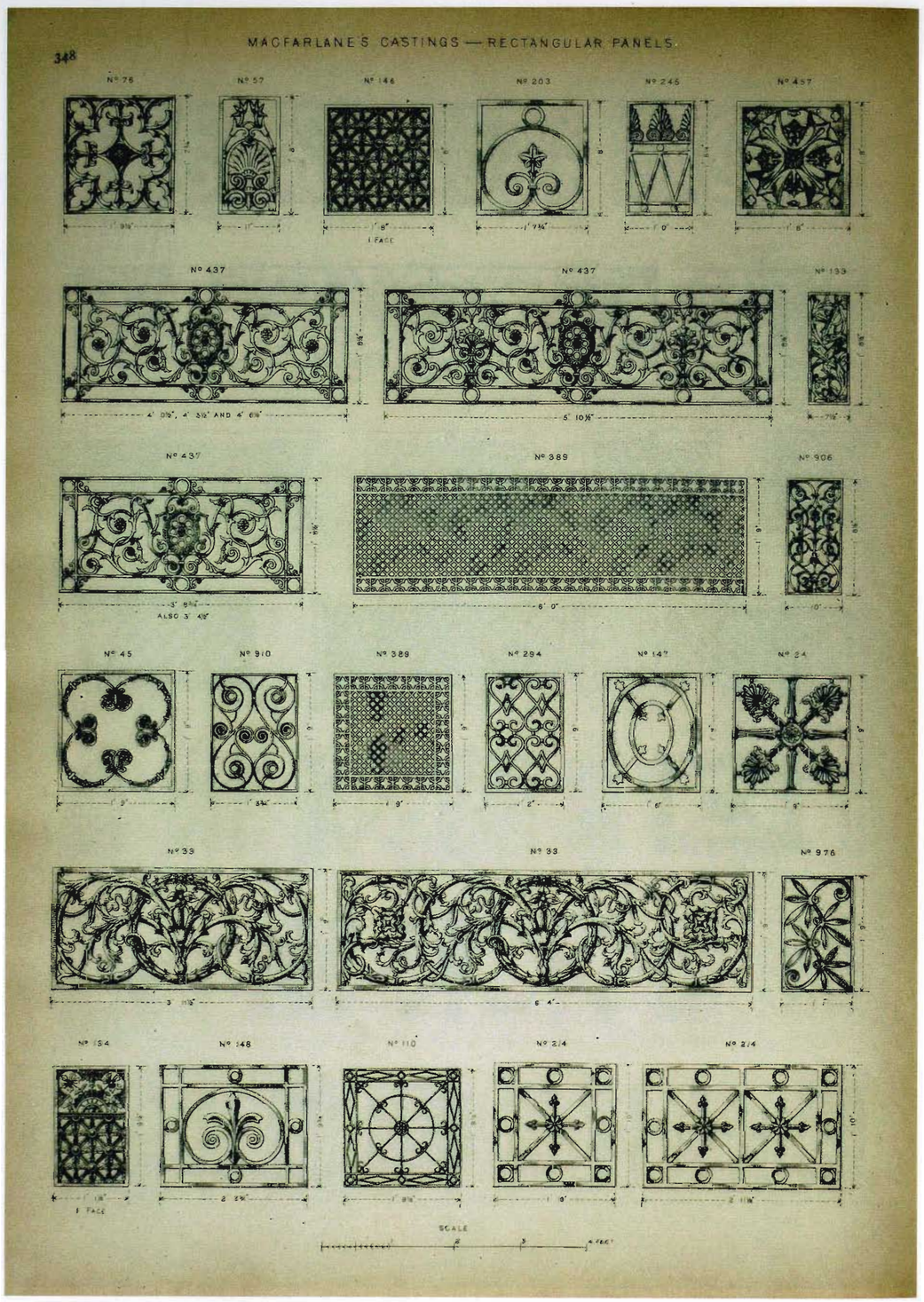

MACFARLANE'S CASTINGS — RECTANGULAR PANELS
343
Nº 410
Nº 410
Nº 410
Nº 109
Nº 109
Nº 109
Nº 109
Nº 197
Nº 793
Nº 129
Nº 133
Nº 129
Nº 129
Nº 314
Nº 314
Nº 314
Nº 357
Nº 158
Nº 158
Nº 85
Nº 85
Nº 85
Nº 85
Nº 354
Nº 270
Nº 270
Nº 340
Nº 269
Nº 269
Nº 134
Nº 259
Nº 351
Nº 353
Nº 344
Nº 457
Nº 354
Nº 425
Nº 316
Nº 316
Nº 316
Nº 345
Nº 345
Nº 8/9
Nº 40
Nº 259
Nº 870
Nº 133
Nº 211
Nº 906
Any size to order.
BORDER
Nº 906
Nº 333
Nº 357
Nº 330
Nº 169
Nº 296
SCALE
2
3
4 FEET

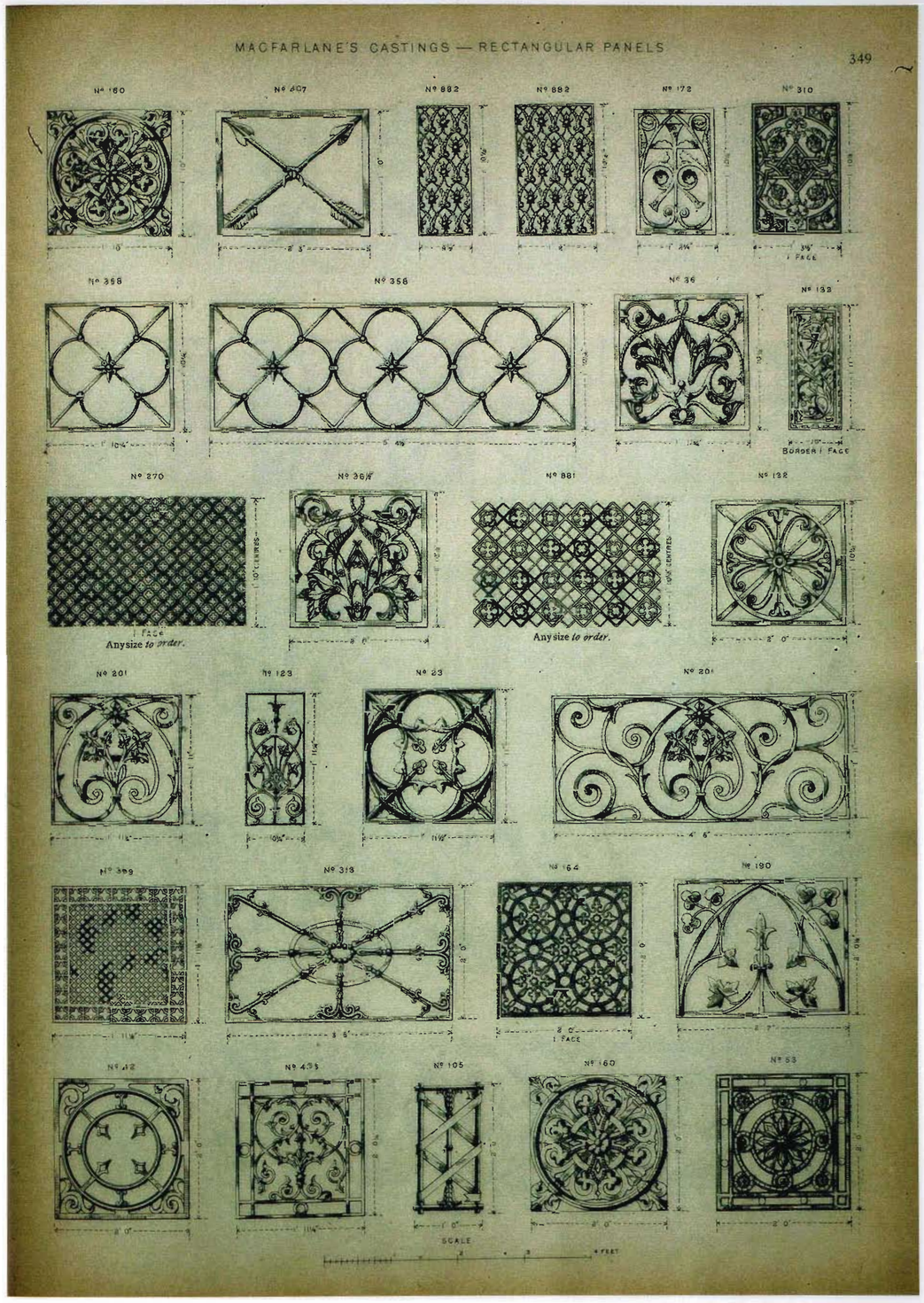

344
MACFARLANE'S CASTINGS — RECTANGULAR PANELS
Nº 414
Nº 344
Nº 270
Nº 270
Nº 270
Nº 389
Nº 389
Nº 389
Nº 389
Nº 294
Nº 294
Nº 124
1 FACE
Nº 124 LEFT HAND
Nº 124
Nº 124 RIGHT HAND
Nº 182
Nº 337
Nº 36
Nº 36½
Nº 38
1 FACE
1 FACE
1 FACE
1 FACE
Nº 109
Nº 109
Nº 109
Nº 109
Nº 431
Nº 431
Nº 431
Nº 431
Nº 228
Nº 154
Nº 918
1 FACE
Nº 780
Nº 353
Nº 138
Nº 426
Nº 766
Nº 183
Nº 425
Nº 95
1 FACE
Nº 159
Nº 199
Nº 786
Nº 158
Nº 11
Nº 458
Nº 42
Nº 435
Nº 289
Nº 113
Nº 765
SCALE
2
3
4 FEET

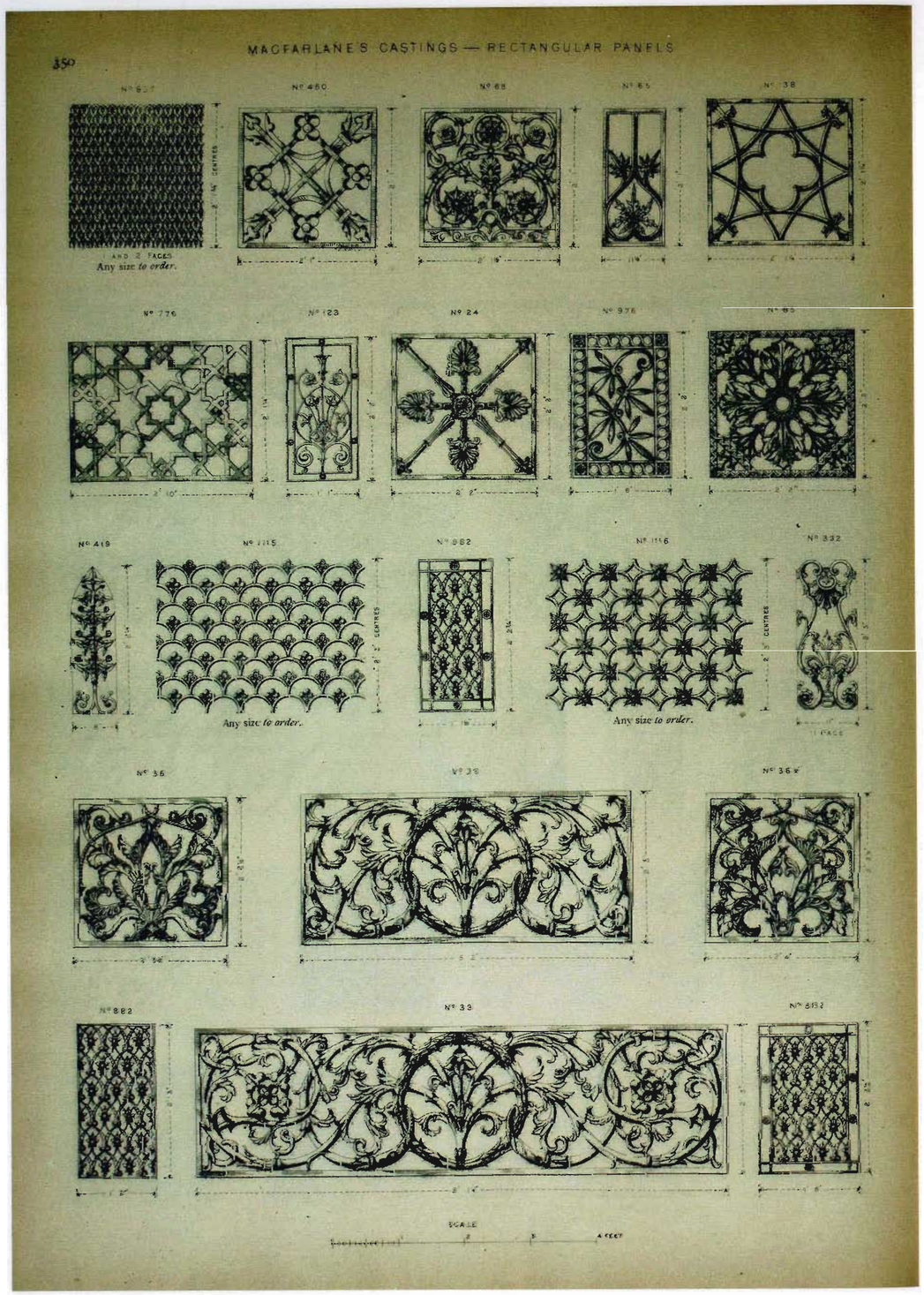

MACFARLANE'S CASTINGS — RECTANGULAR PANELS
345.
Nº 976
Nº 172
Nº 283
Nº 161
Nº 161
Nº 281
Nº 133
Nº 33
Nº 33
Nº 146
1 FACE
Nº 470
Nº 40
Nº 780
Nº 158
Nº 473
Nº 244
Nº 214
Nº 214
Nº 105
Nº 68
Nº 174
Nº 174
Nº 109
Nº 109
Nº 109
Nº 109
Nº 109
Nº 109
Nº 781
Nº 781
Nº 57
Nº 287
Nº 24
Nº 24
Nº 53
Nº 46
Nº 36
1 FACE
Nº 36½
Nº 148
Nº 270
Nº 270
Nº 185
Nº 467
1 FACE
SCALE
2
3
4 FEET

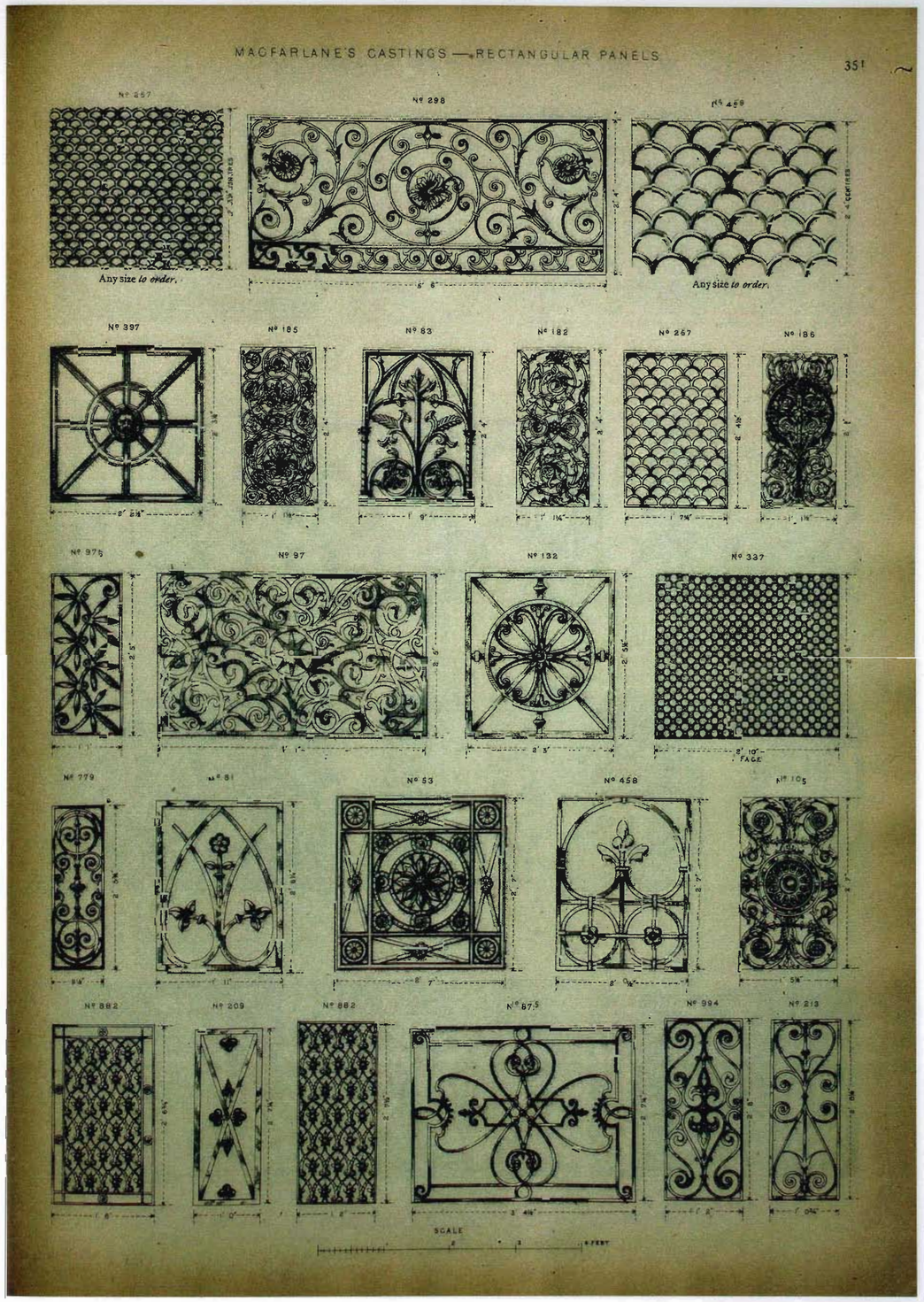

346
MACFARLANE'S CASTINGS — RECTANGULAR PANELS
Nº 389
Nº 184
Nº 163
Nº 776
Nº 200
Nº 438
Nº 281
Nº 106
Nº 172
Nº 415
Nº 29
Nº 40
Nº 42
Nº 121
Nº 88
Nº 26
Nº 45
Nº 440
Nº 140
Nº 955
Nº 26
Nº 26
Nº 28
Nº 882
Nº 26
Nº 25
Nº 293
Any size to order.
Nº 233
Nº 233
Nº 26
Nº 26
Nº 26
Nº 26
Nº 26
SCALE

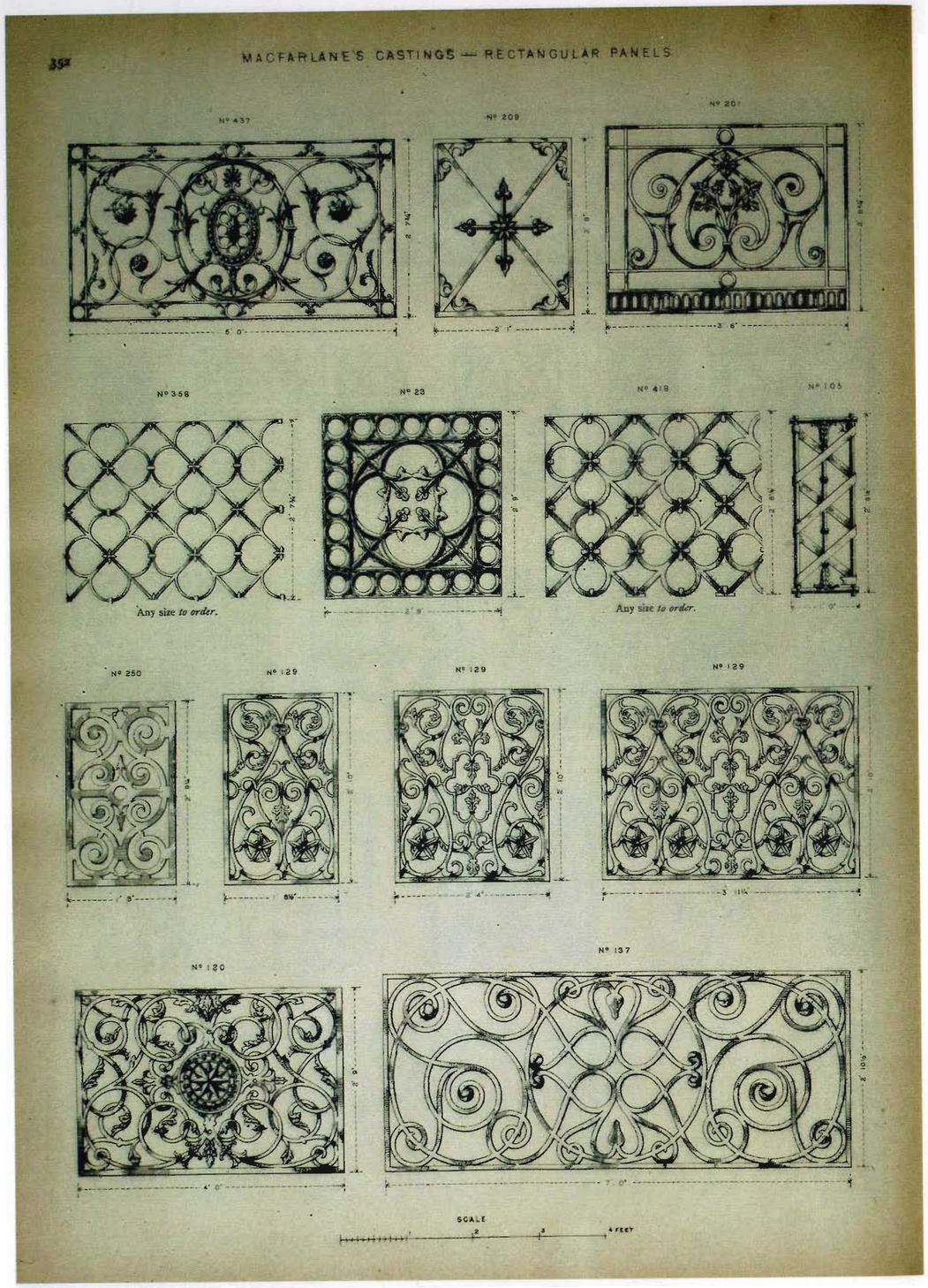

MACFARLANE'S CASTINGS — RECTANGULAR PANELS
347
Nº 26
Nº 26
Nº 26
Nº 26
Nº 26
Nº 376
Nº 109
Nº 109
Nº 109
Nº 109
Nº 109
Nº 109
Nº 102
Nº 336
Nº 958
Nº 882
Nº 436
Nº 138
Nº 106
Nº 214
Nº 116
Nº 64
Nº 50
Nº 53
Nº 458
Nº 183
Nº 778
Nº 325
Nº 159
SCALE

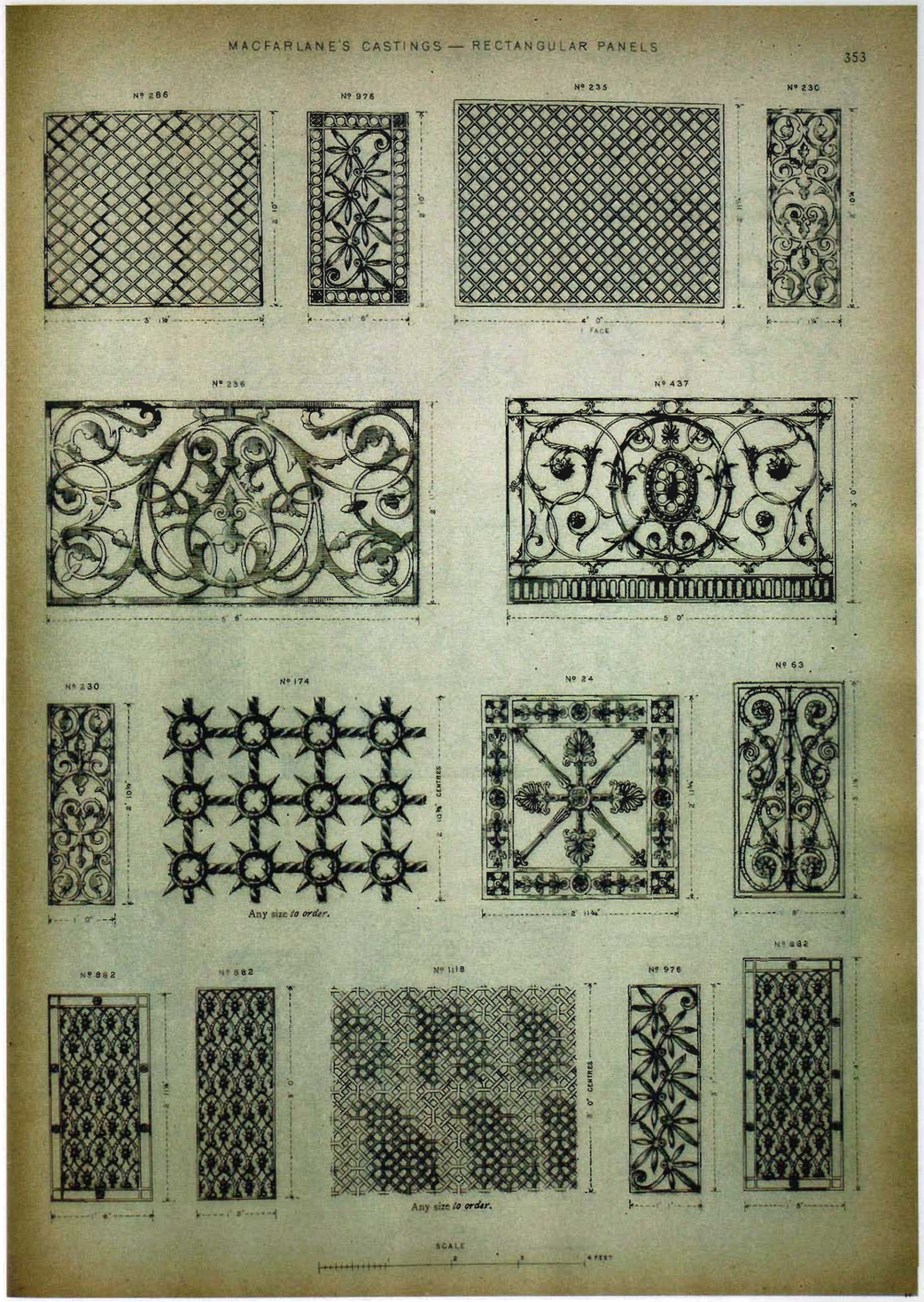

348
MACFARLANE'S CASTINGS — RECTANGULAR PANELS
Nº 76
Nº 57
Nº 146
Nº 203
Nº 245
Nº 457
1 FACE
Nº 437
Nº 437
Nº 133
4' 0½", 4' 3½" AND 4' 6½"
5' 10¾"
Nº 437
Nº 389
Nº 906
ALSO 3' 4½"
6' 0"
Nº 45
Nº 910
Nº 389
Nº 294
Nº 147
Nº 24
Nº 39
Nº 33
Nº 976
3' 11½"
6' 4"
Nº 154
Nº 148
Nº 110
Nº 214
Nº 214
1 FACE
SCALE
FEET

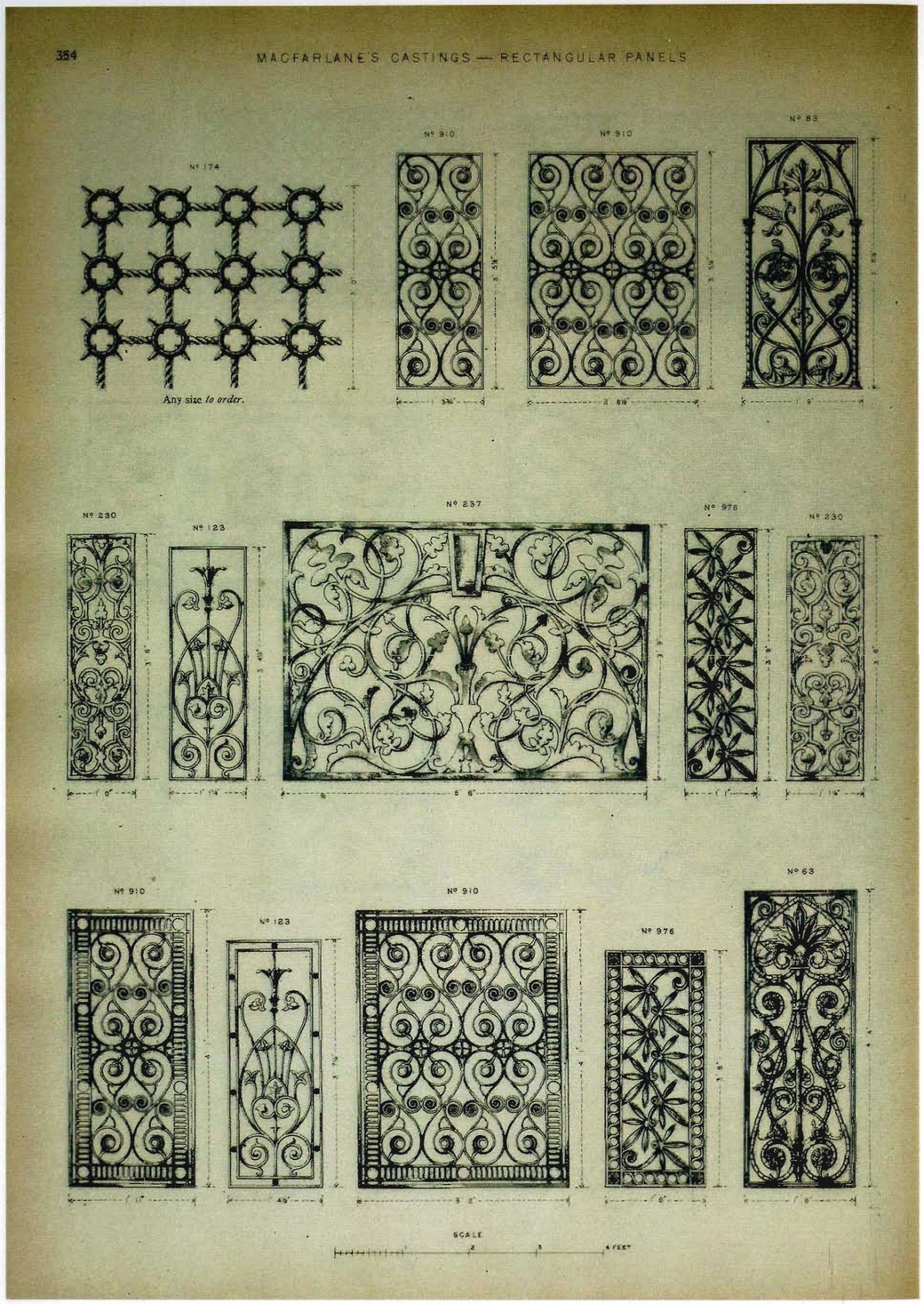

MACFARLANE'S CASTINGS — RECTANGULAR PANELS
349
Nº 160
Nº 607
Nº 882
Nº 882
Nº 172
Nº 310
1 FACE
Nº 356
Nº 356
Nº 36
Nº 133
5' 4½"
BORDER 1 FACE
Nº 270
Nº 36½
Nº 881
Nº 132
1 FACE
Anysize to order.
Anysize to order.
Nº 201
Nº 123
Nº 23
Nº 201
Nº 389
Nº 318
Nº 164
Nº 190
3' 5"
8' 0"
1 FACE
Nº 412
Nº 435
Nº 105
Nº 160
Nº 53
SCALE
FEET

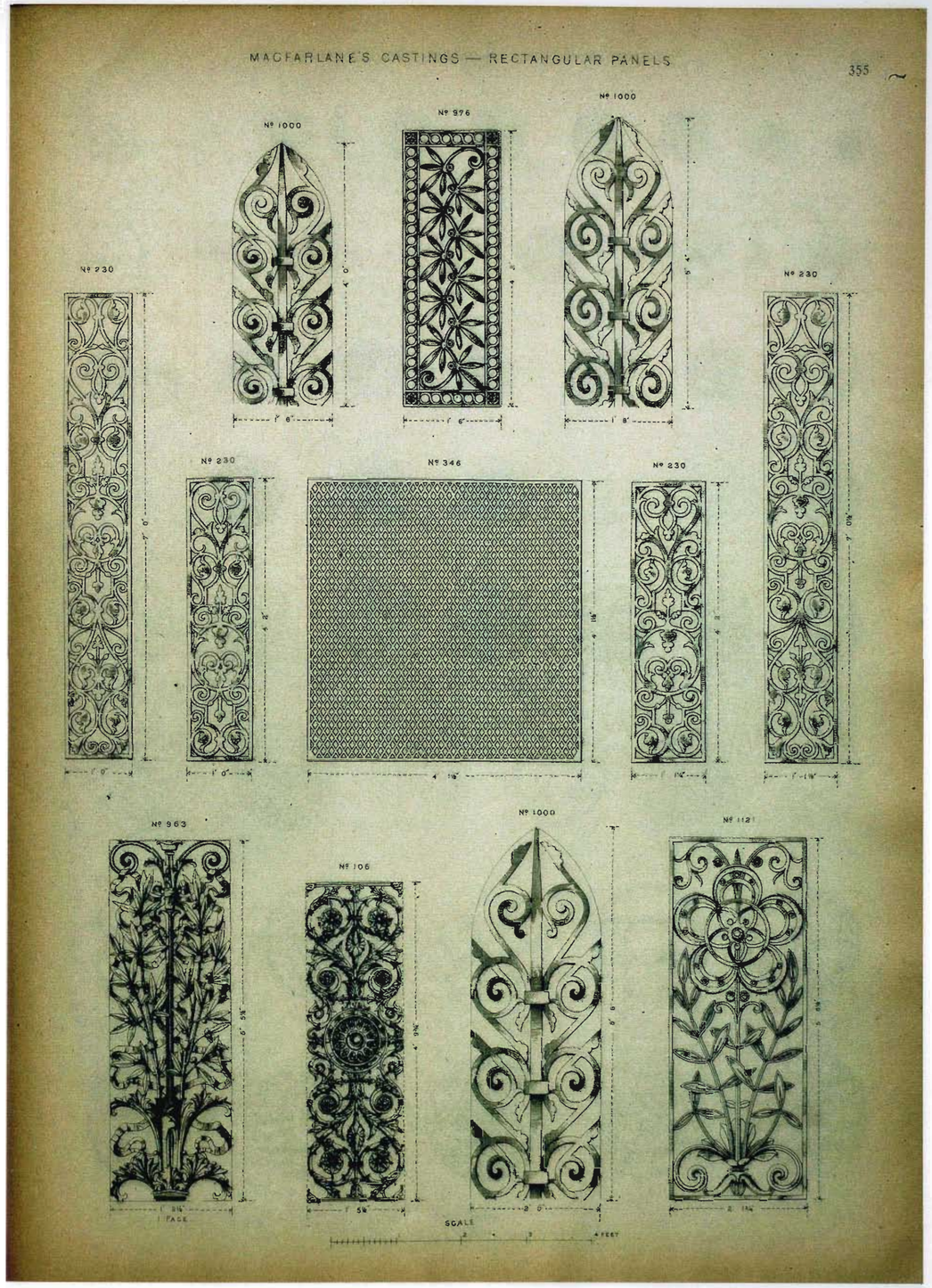

350
MACFARLANE'S CASTINGS — RECTANGULAR PANELS
Nº 257
Nº 460
Nº 65
Nº 65
Nº 38
AND 2 FACES
Any size to order.
Nº 776
Nº 123
Nº 24
Nº 976
Nº 83
Nº 419
Nº 1115
Nº 982
Nº 1116
Nº 332
Any size to order.
Any size to order.
1 FACE
Nº 35
Nº 39
Nº 36 A
Nº 882
Nº 33
Nº 813 2
SCALE
FEET

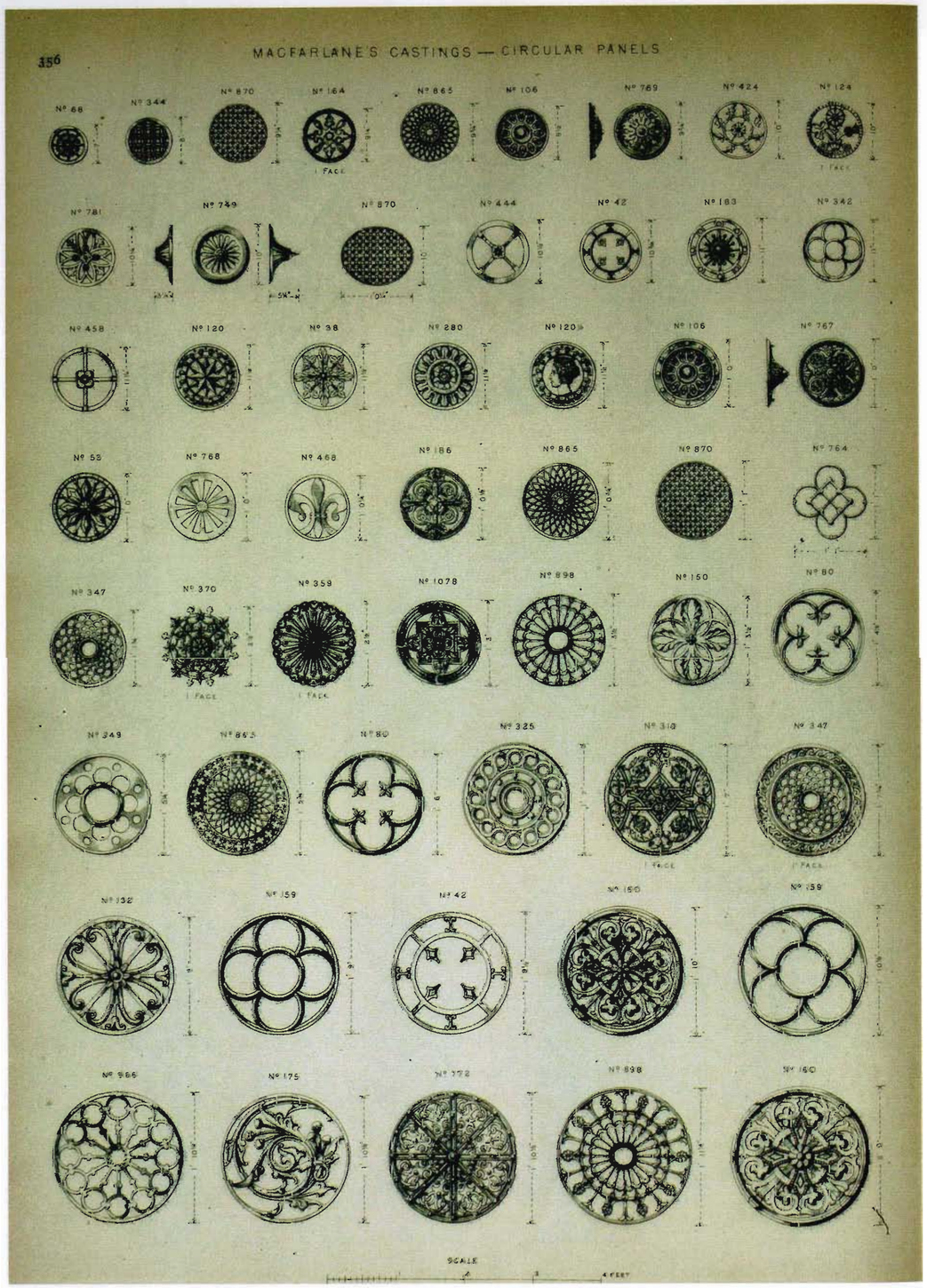

MACFARLANE'S CASTINGS — RECTANGULAR PANELS
351
Nº 257
Nº 298
Nº 459
Any size to order.
Any size to order.
Nº 397
Nº 185
Nº 83
Nº 182
Nº 267
Nº 186
Nº 975
Nº 97
Nº 132
Nº 337
Nº 779
Nº 81
Nº 53
Nº 458
Nº 105
Nº 882
Nº 209
Nº 882
Nº 87 5
Nº 994
Nº 213
SCALE
FEET

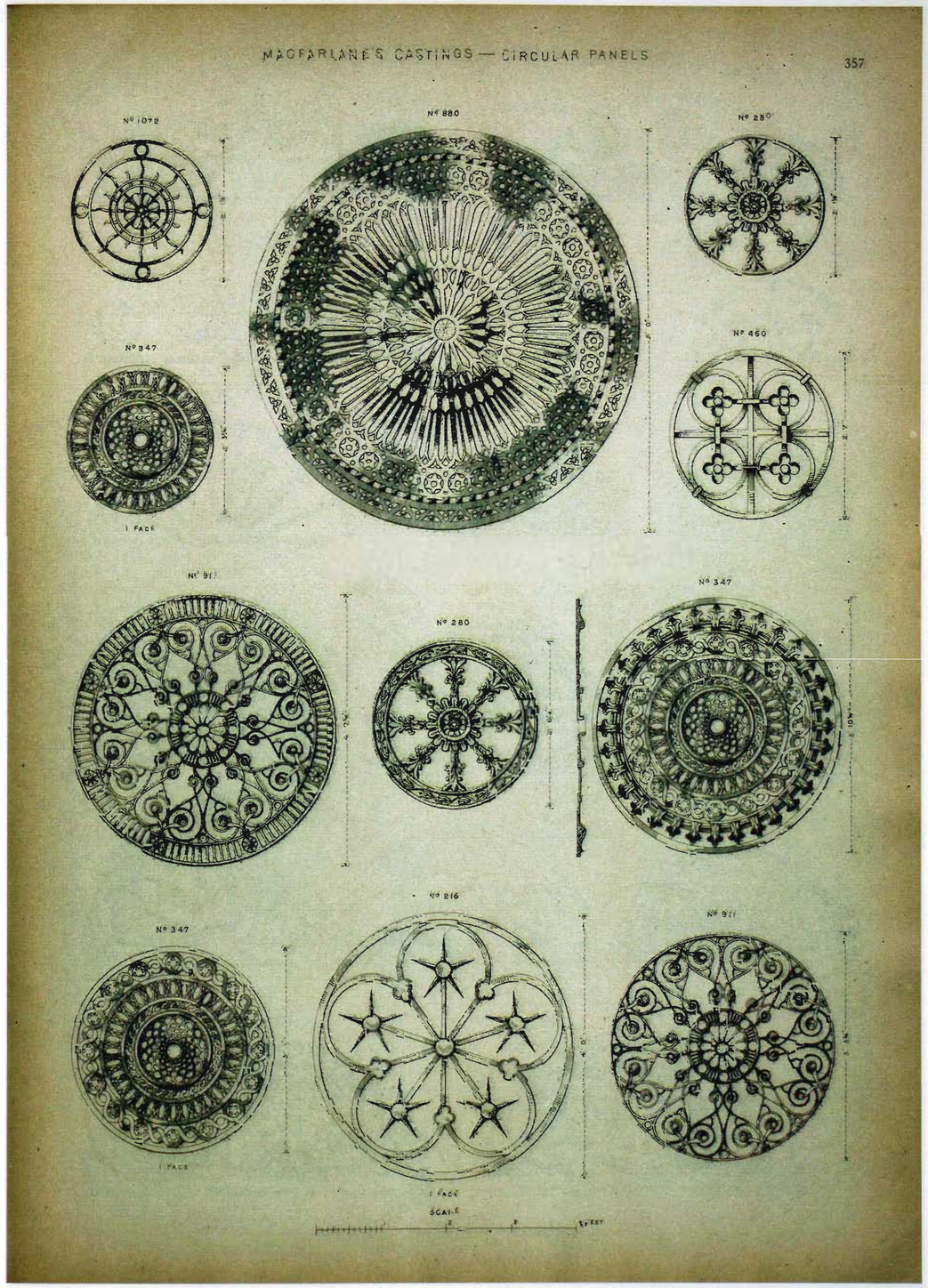

352
MACFARLANE'S CASTINGS — RECTANGULAR PANELS
Nº 437
Nº 209
Nº 201
Nº 358
Nº 23
Nº 418
Nº 105
Any size to order.
Any size to order.
Nº 250
Nº 129
Nº 129
Nº 129
Nº 120
Nº 137
SCALE
4 FEET

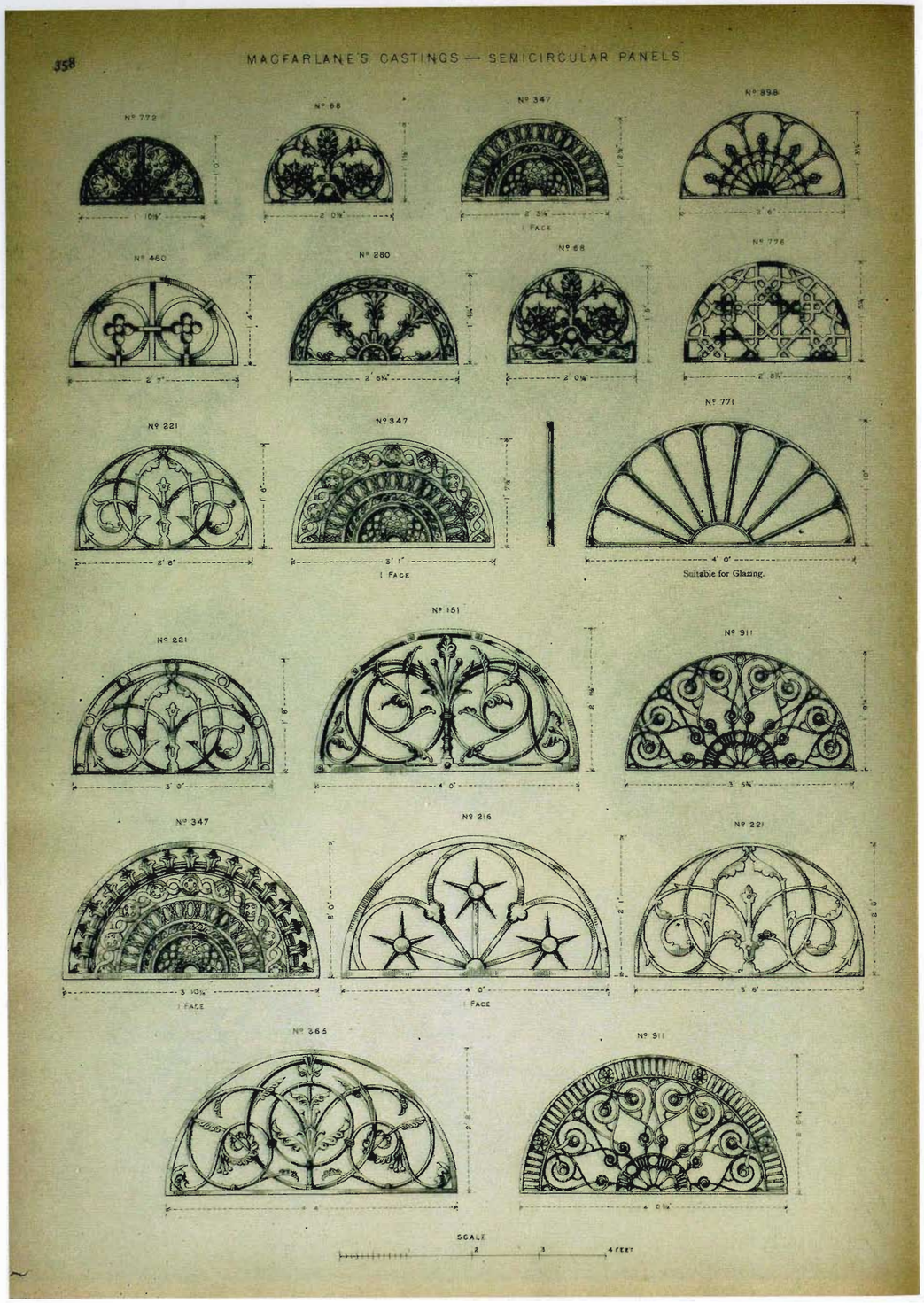

MACFARLANE'S CASTINGS — RECTANGULAR PANELS
353
Nº 286
Nº 976
Nº 235
Nº 230
Nº 236
Nº 437
Nº 63
Nº 230
Nº 174
Nº 24
Any size to order.
Nº 882
Nº 882
Nº 1118
Nº 976
Nº 882
Any size to order.
SCALE
4 FEET

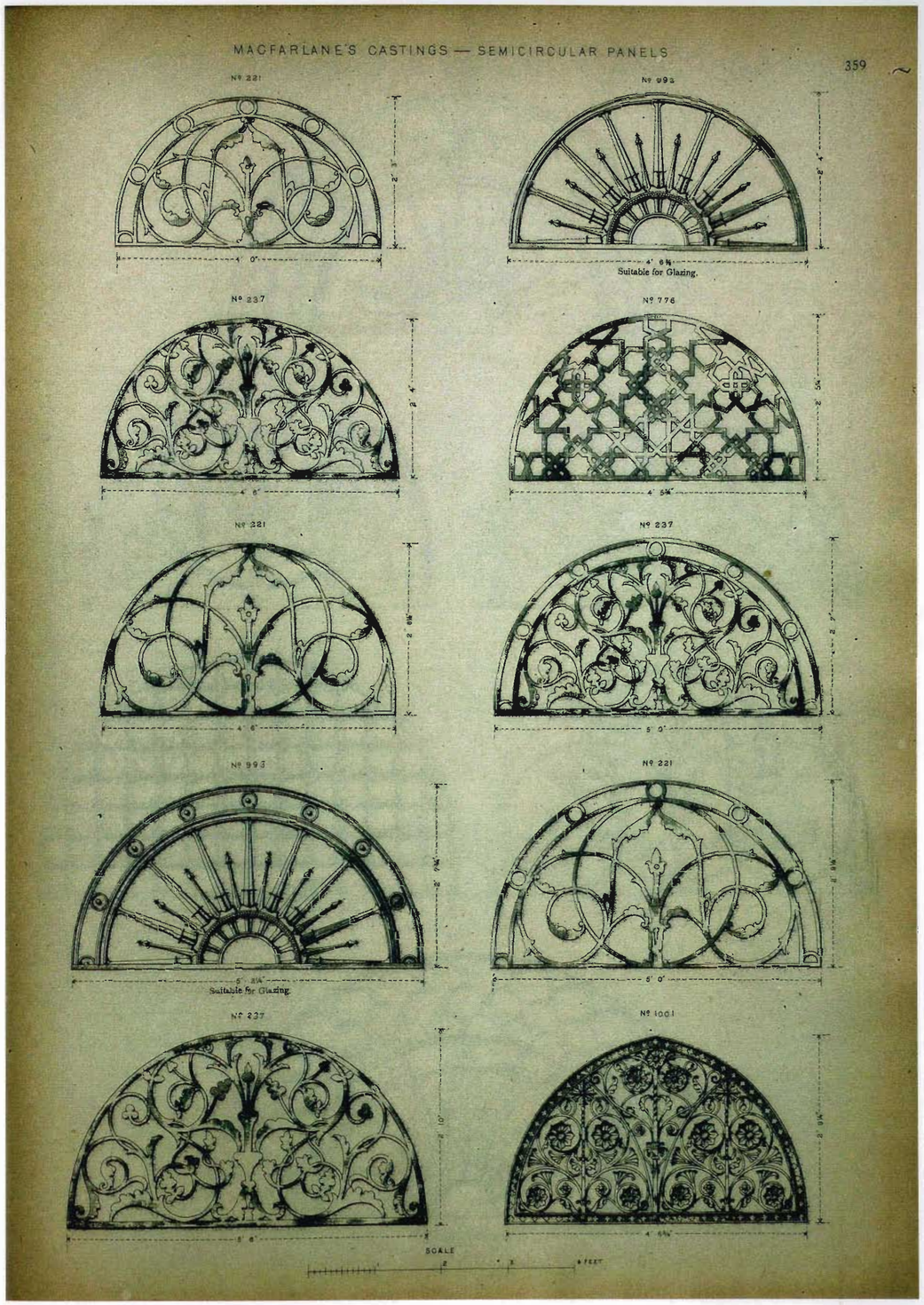

354
MACFARLANE'S CASTINGS — RECTANGULAR PANELS
Nº 174
Any size to order.
Nº 910
Nº 910
Nº 83
Nº 230
Nº 123
Nº 237
Nº 976
Nº 230
Nº 910
Nº 123
Nº 910
Nº 976
Nº 63
SCALE
2
3
4 FEET

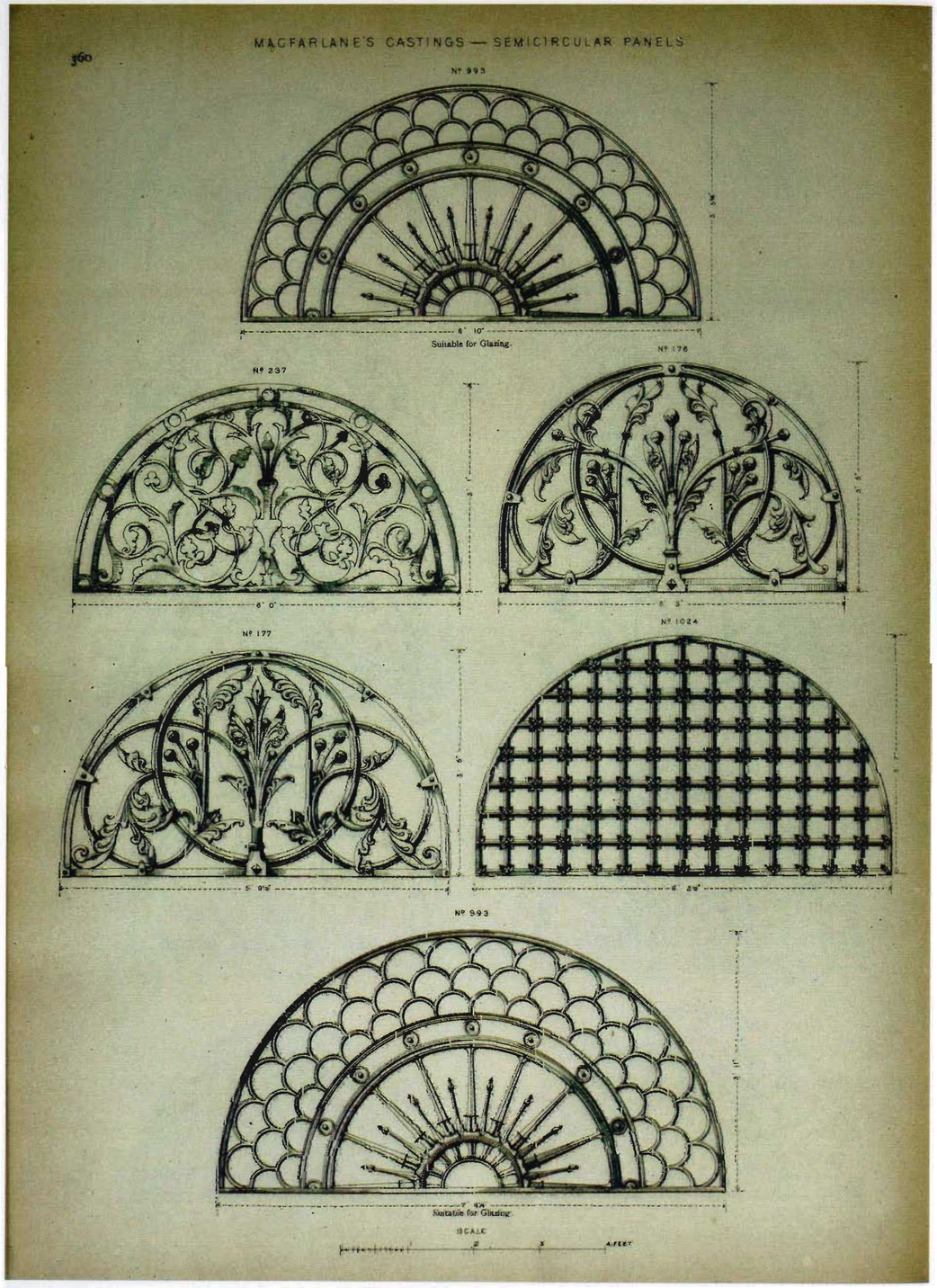

MACFARLANE'S CASTINGS — RECTANGULAR PANELS
355
Nº 1000
Nº 976
Nº 1000
Nº 230
Nº 230
Nº 346
Nº 230
Nº 230
Nº 963
Nº 106
Nº 1000
Nº 1121
FACE
SCALE
2
3
4 FEET

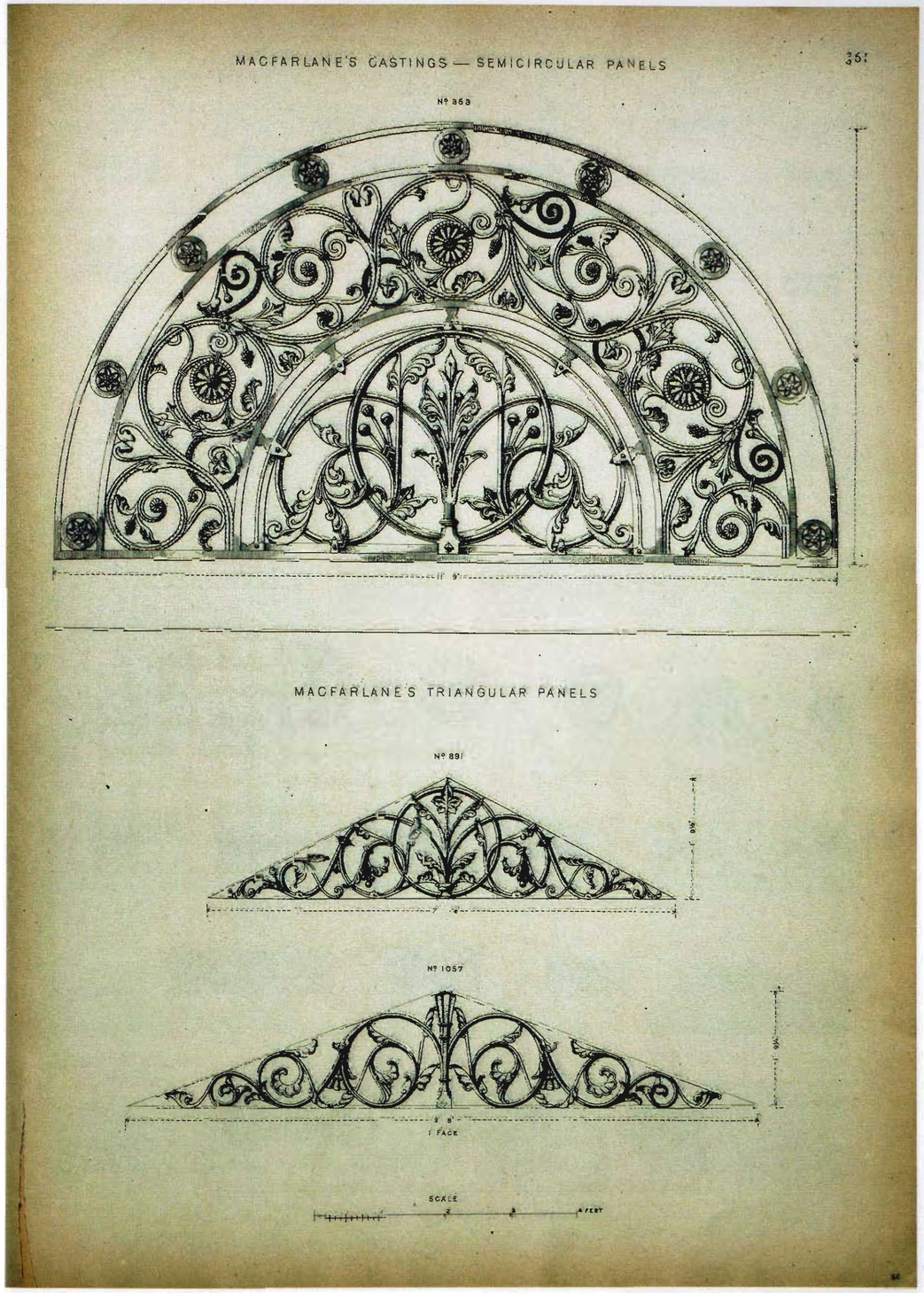

356
MACFARLANE'S CASTINGS — CIRCULAR PANELS
Nº 68
Nº 344
Nº 870
Nº 164
Nº 865
Nº 106
Nº 769
Nº 424
Nº 124
Nº 781
Nº 749
Nº 870
Nº 444
Nº 42
Nº 183
Nº 342
Nº 458
Nº 120
Nº 38
Nº 280
Nº 120
Nº 106
Nº 767
Nº 53
Nº 768
Nº 468
Nº 186
Nº 865
Nº 870
Nº 764
Nº 347
Nº 370
Nº 359
Nº 1078
Nº 898
Nº 150
Nº 80
Nº 349
Nº 865
Nº 80
Nº 325
Nº 310
Nº 347
Nº 132
Nº 159
Nº 42
Nº 150
Nº 158
Nº 986
Nº 175
Nº 172
Nº 898
Nº 150
SCALE
4 FEET


MACFARLANE'S CASTINGS — CIRCULAR PANELS
357
Nº 1072
Nº 880
Nº 280
Nº 347
Nº 460
Nº 911
Nº 280
Nº 347
Nº 216
Nº 347
Nº 911
SCALE
4 FEET


358
MACFARLANE'S CASTINGS — SEMICIRCULAR PANELS
Nº 772
Nº 68
Nº 347
Nº 898
1 FACE
Nº 460
Nº 280
Nº 68
Nº 776
Nº 221
Nº 347
1 FACE
Nº 771
Suitable for Glazing.
Nº 151
Nº 221
Nº 911
Nº 347
Nº 216
Nº 221
1 FACE
1 FACE
Nº 365
Nº 911
SCALE
1 2 3 4 FEET

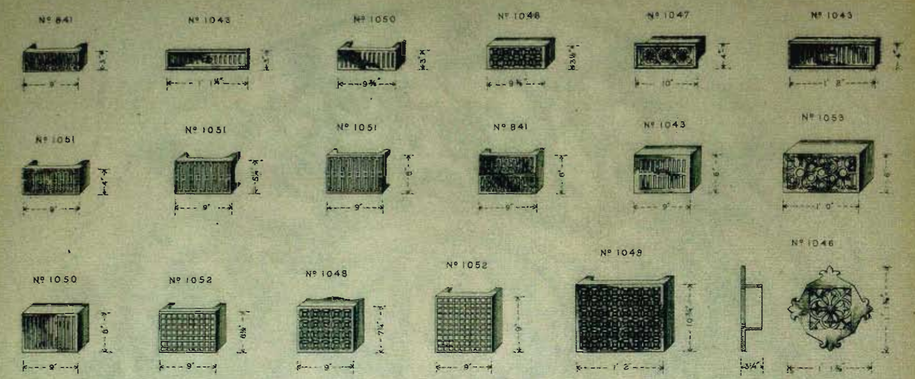

MACFARLANE'S CASTINGS — SEMICIRCULAR PANELS
359
Nº 221
Nº 993
Suitable for Glazing.
Nº 237
Nº 776
Nº 221
Nº 237
Nº 993
Suitable for Glazing.
Nº 221
Nº 237
Nº 1061
SCALE
1 2 3 4 FEET


360
MACFARLANE'S CASTINGS — SEMICIRCULAR PANELS
Nº 993
6' 10"
Suitable for Glazing.
Nº 237
6' 0"
Nº 176
5' 3"
Nº 1024
Nº 177
5' 9½"
6' 2½"
Nº 993
7' 6"
Suitable for Glazing
SCALE
2
3
4 FEET


MACFARLANE'S CASTINGS — SEMICIRCULAR PANELS
361
Nº 363
11' 9"
MACFARLANE'S TRIANGULAR PANELS
Nº 891
7' 8"
Nº 1057
9½"
3' 8"
1 FACE
SCALE
2
3
4 FEET

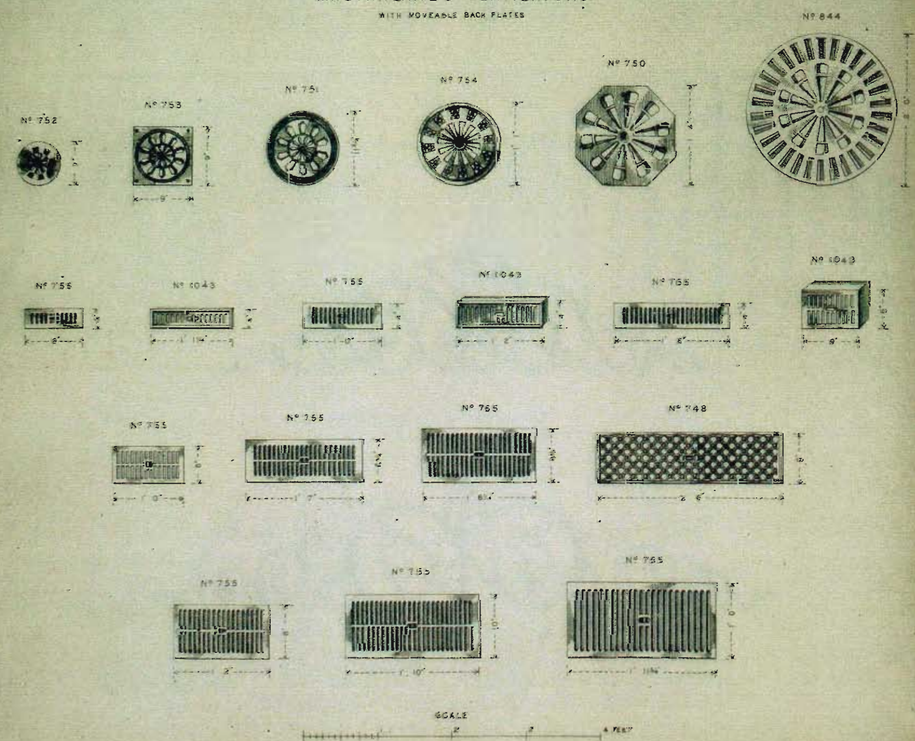
362

MACFARLANE'S CASTINGS — AIR BRICKS



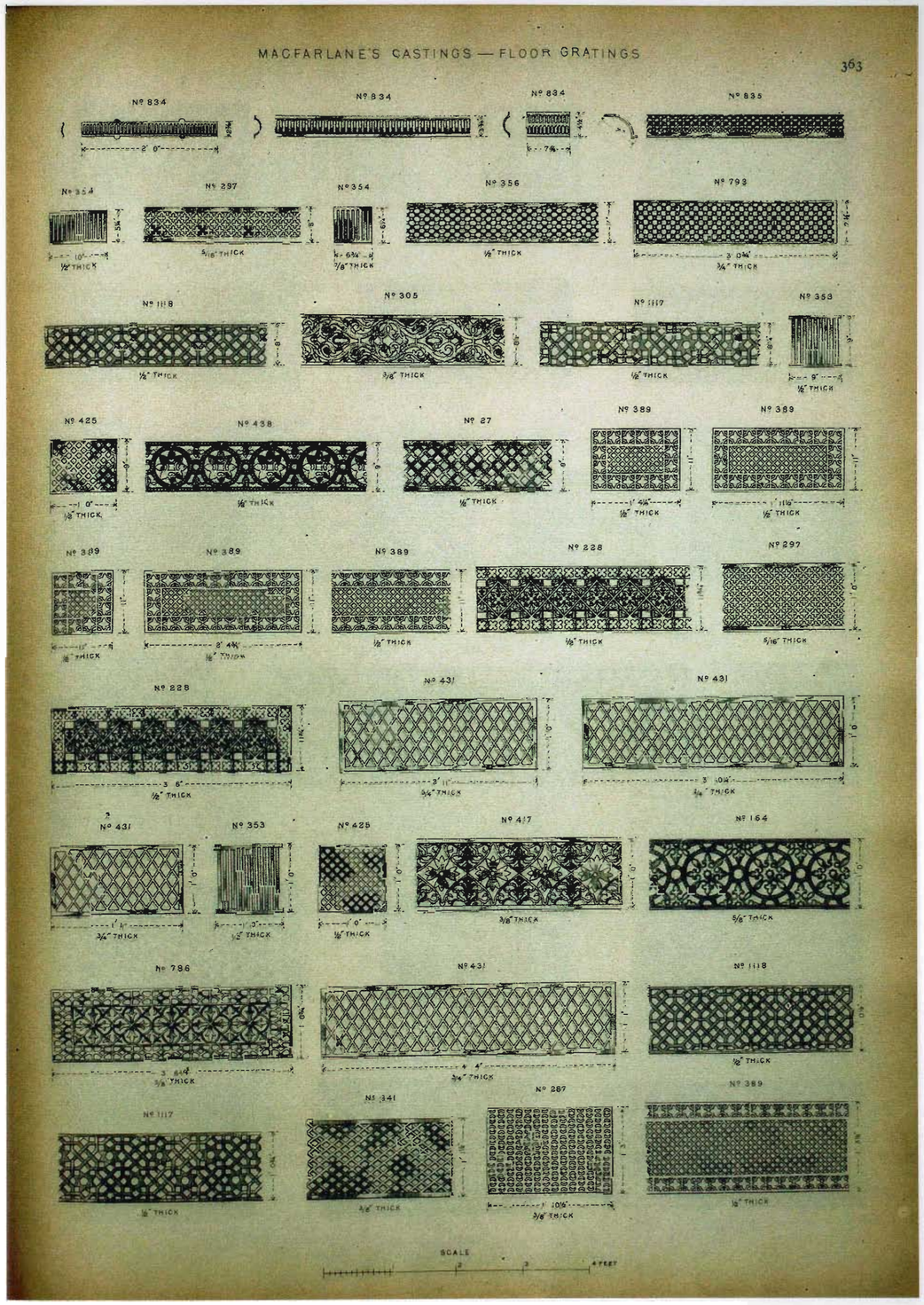
MACFARLANE'S VENTILATORS

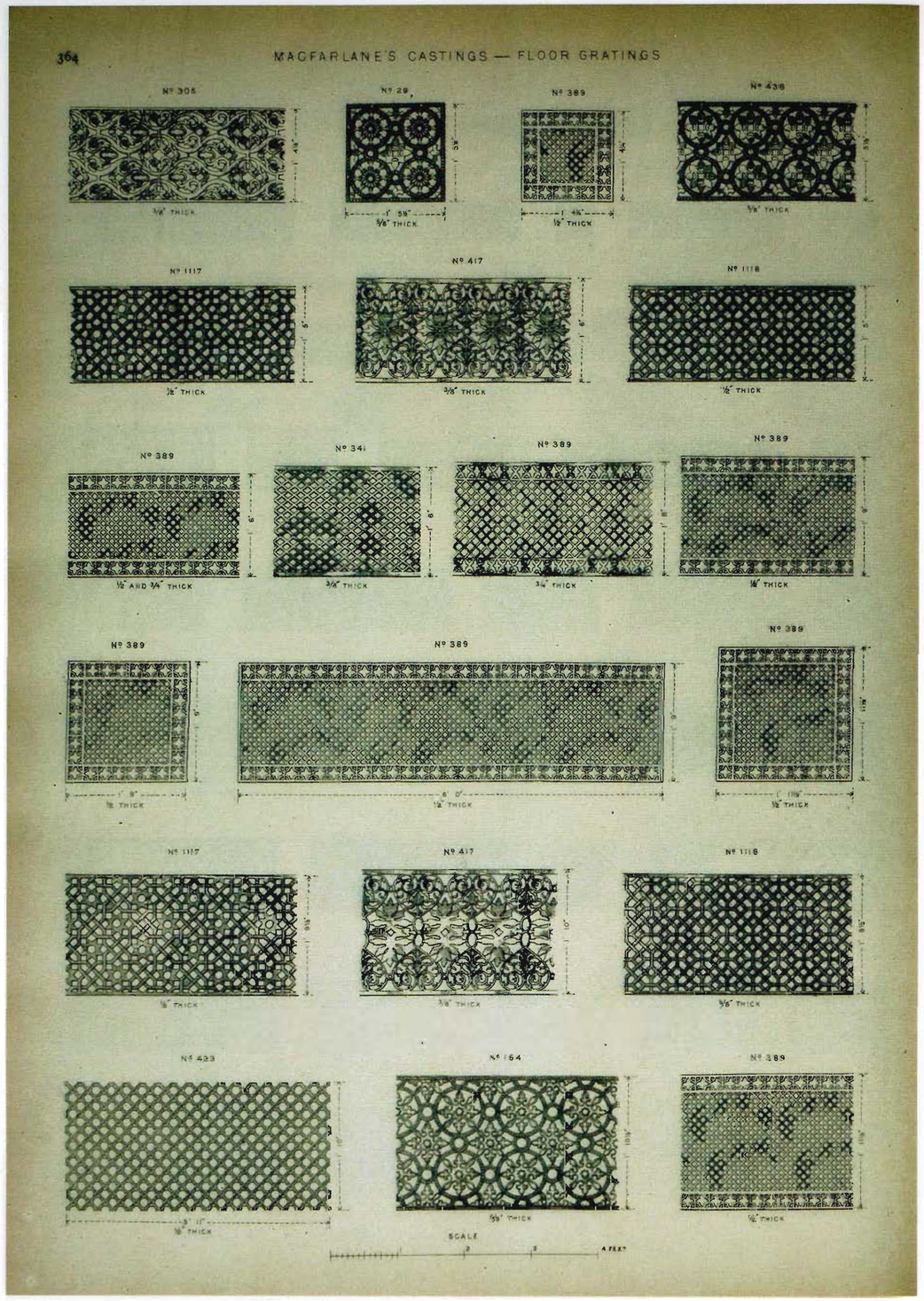
WITH MOVEABLE BACK PLATES

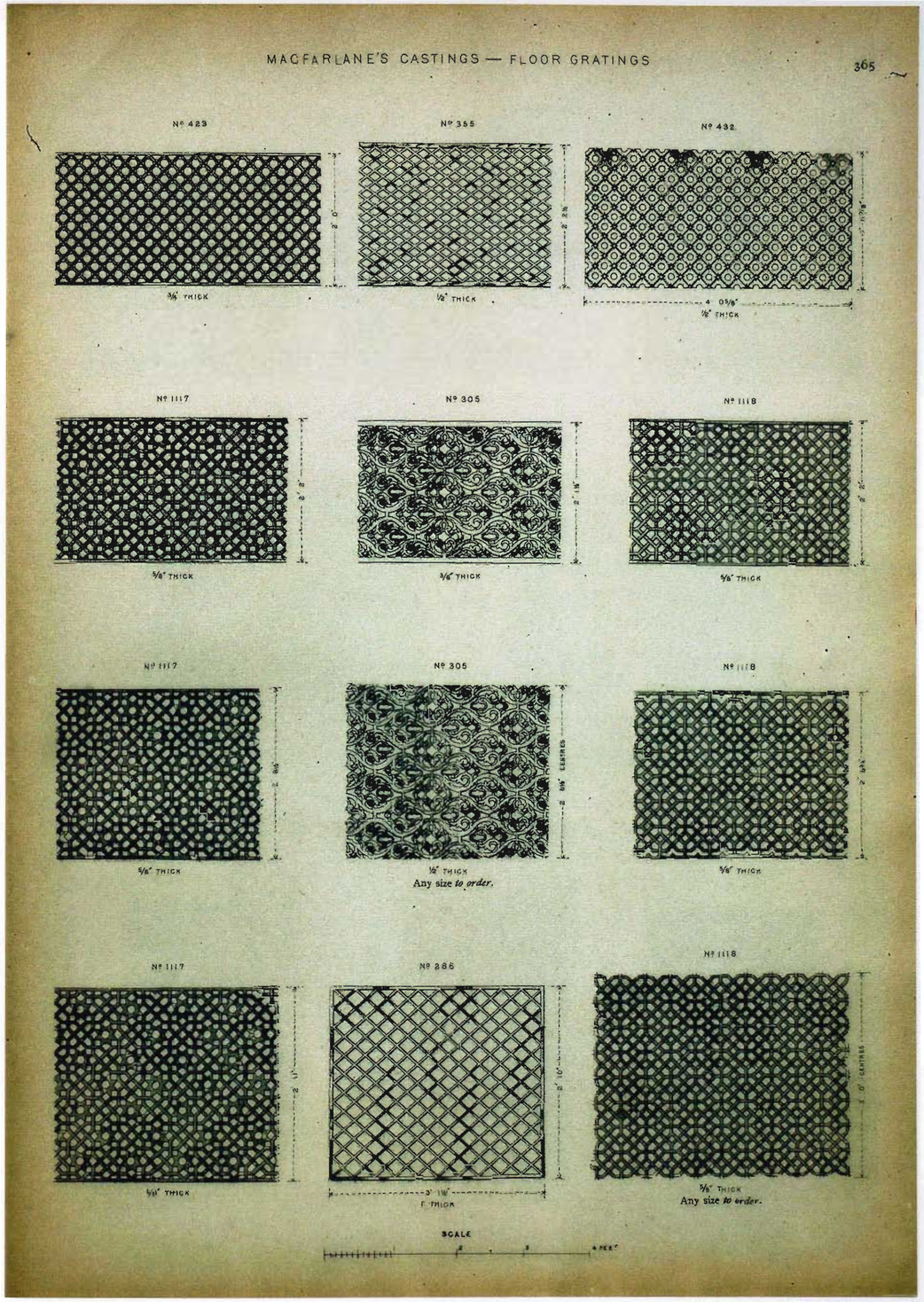


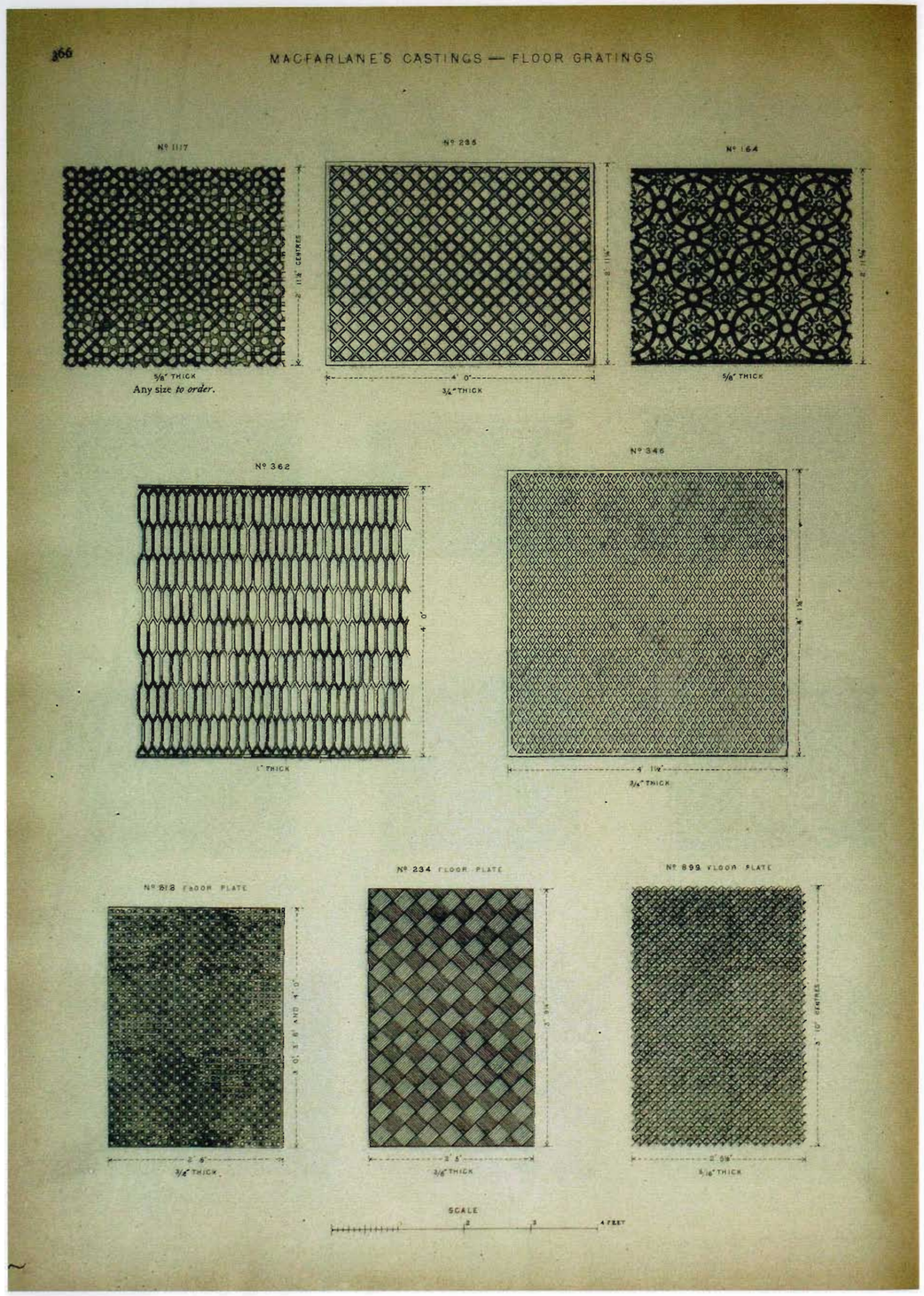
363

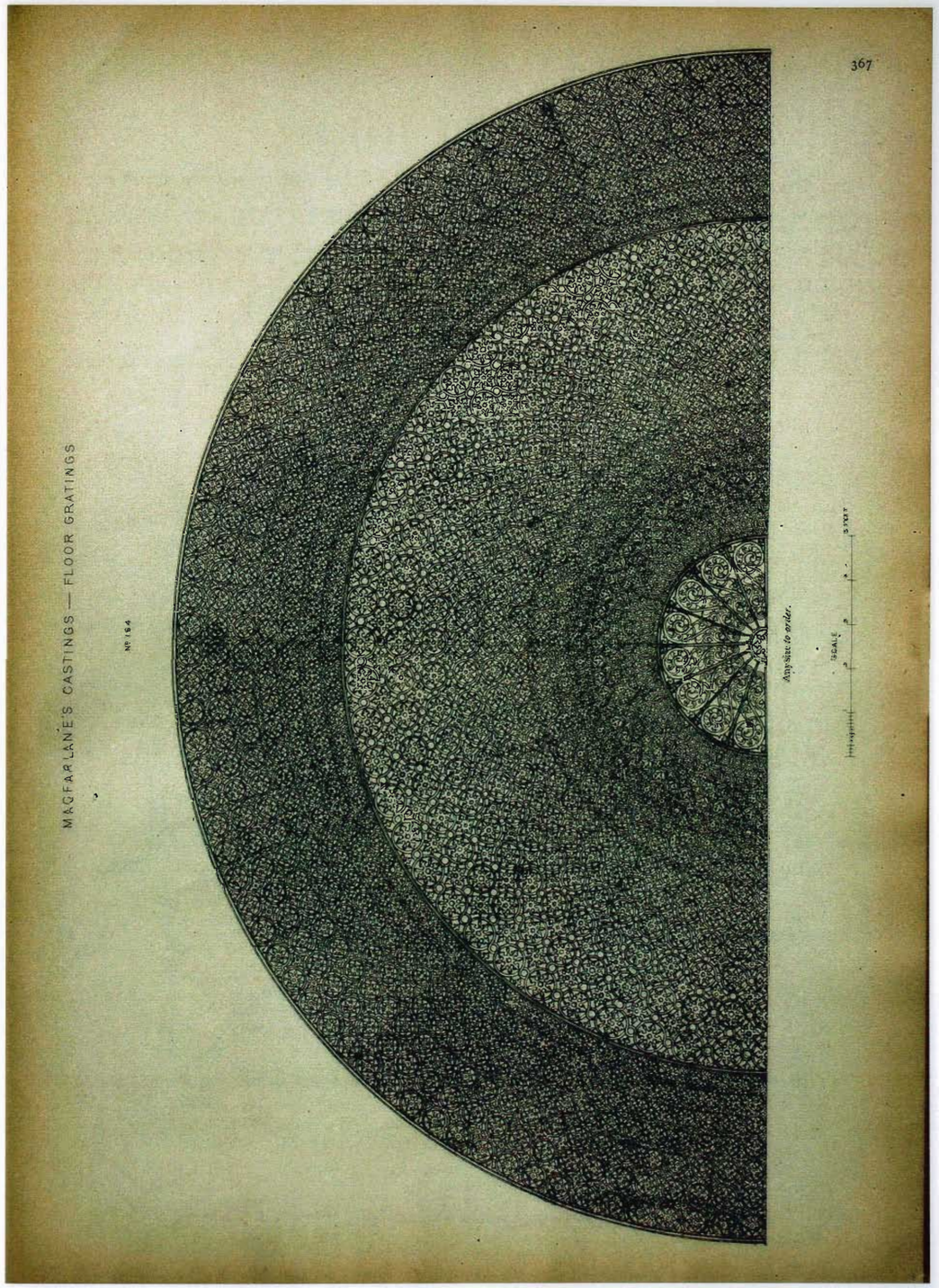
MACFARLANE'S CASTINGS — FLOOR GRATINGS




364
MACFARLANE'S CASTINGS — FLOOR GRATINGS
Nº 305
Nº 29
Nº 389
Nº 436
Nº 1117
Nº 417
Nº 1118
Nº 389
Nº 341
Nº 389
Nº 389
Nº 389
Nº 389
Nº 389
Nº 1117
Nº 417
Nº 1118
Nº 423
Nº 464
Nº 389
SCALE


MACFARLANE'S CASTINGS — FLOOR GRATINGS
365
Nº 423
Nº 355
Nº 432
Nº 1117
Nº 305
Nº 1118
Nº 1117
Nº 305
Nº 1118
Any size to order.
Nº 1117
Nº 286
Nº 1118
Any size to order.
SCALE


366
MACFARLANE'S CASTINGS — FLOOR GRATINGS
Nº 1117
Nº 235
Nº 164
3/8" THICK
Any size to order.
4' 0"
3/4" THICK
5/8" THICK
Nº 362
Nº 346
1" THICK
4' 11½"
3/4" THICK
Nº 818 FLOOR PLATE
Nº 234 FLOOR PLATE
Nº 899 FLOOR PLATE
2' 6"
3/4" THICK
2' 5"
3/8" THICK
2' 5½"
5/16" THICK
SCALE
4 FEET


367
MACFARLANE'S CASTINGS — FLOOR GRATINGS
Nº 164
Any size to order.
SCALE
4 FEET

SECTION VIII.—STAIRS.

FOR EVERY KIND OF INTERIOR AND EXTERIOR ACCESS AND COMMUNICATION.

The treatment of Stairs has become a matter of great moment in the designing and construction of buildings with the view of economising space, and also for admission of light and security from fire, for the attainment of which cast iron possesses advantages over every other material, while the light and graceful forms it admits of, render it peculiarly suitable for Balusters and Stair Railing.

Please insert in Specification "**To be Macfarlane's Castings, from Saracen Foundry, Glasgow,**" to prevent an inferior article being supplied.

Straight Stairs,	pages 368—369	Step Plates,	pages 381
Spiral Stairs,	„ 370—372	Examples,	„ 382—385
Balusters,	„ 373—380	Railing, see Section V.,	„ 172—286
Newel Posts,	„ 379—380	Handrails, „ V.,	„ 287—288
Baluster Sockets,	„ 381	Railing Standards, „ VI.,	„ 334—339
Handrail Brackets,	„ 381	Floor Gratings, „ VII.,	„ 363—367

The Illustrations of Balusters and Newel Posts are arranged in the order of their breadth.

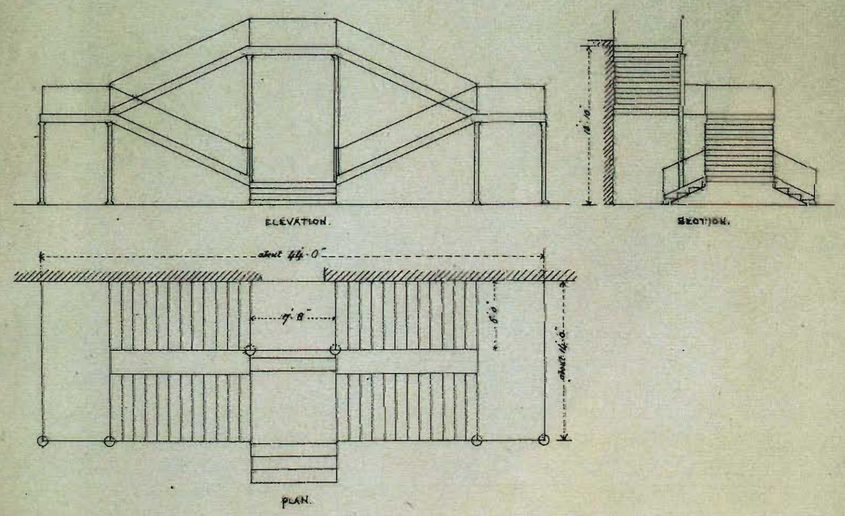
DIRECTIONS FOR ORDERING.

State the Nos. and sizes, and if necessary, give a rough sketch with exact measurements, stating the nature of the fixings required, whether for wood, stone, brick, or iron, and we will furnish the whole ready for fitting up. The following examples show the simplest method of ordering.

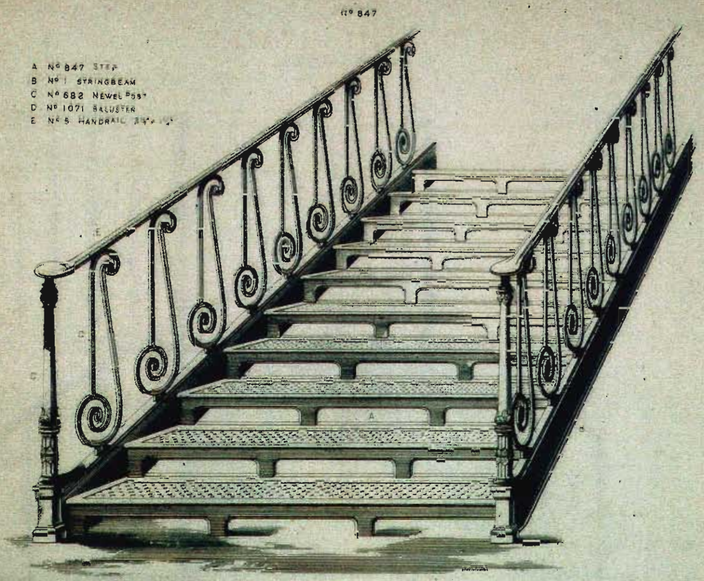
14 No. 617 Balusters 2′ 10″.
31 No. 617 „ 3′ 1¼″ bevelled to suit step 11″ × 6½″.
12 No. 617 „ various sizes and bevels as templates sent.
2 No. 617 „ curved as templates sent.
2 No. 967 Newel Posts 3′ 2″.
All with pins on top and screw-holes at bottom for fixing to wood.

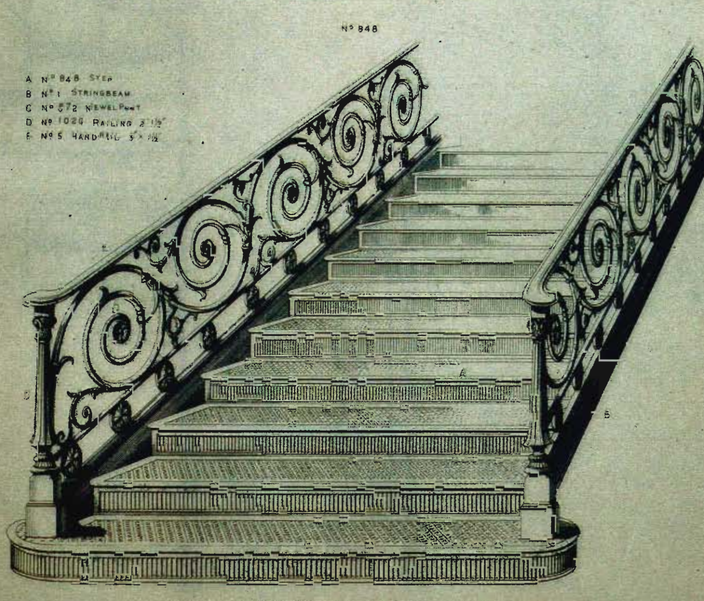
1 No. 791 Spiral Stair 3′ 0″ radius right hand wheel in 3 flights, the first 12′ 4½″, the second 10′ 0″, and the third 9′ 3¾″ high, with cast iron landings.

1 No. 848 Staircase, consisting of No. 4 Columns 4″, No. 1 Stringbeams with pateras on side, No. 848 Steps, No. 818 Floor Plates for Landing, No. 1020 Railing 2′ 6″ for landing and 2′ 1½″ for rake, No. 672 Newel Posts, No. 5 Handrail 3½″ × 1¾″, fitted complete to measurements as sketch.



MACFARLANE'S CASTINGS — STAIRS





STEPS 10" × 6¾" × 2' 6", 3' 0", 3' 6", 4' 0", 4' 6", 5' 0", 5' 6" AND 6' 0" BETWEEN STRINGBEAM
" 11" × 6¼" × 2' 6", 3' 0", 3' 6", 4' 0", 4' 6", 5' 0", 5' 6" AND 6' 0" " "
" 12" × 6" × 4' 0", 4' 6", 5' 0", 5' 6" AND 6' 0" " "

Any other Railing, Baluster or Newel Post may be applied *to order*.

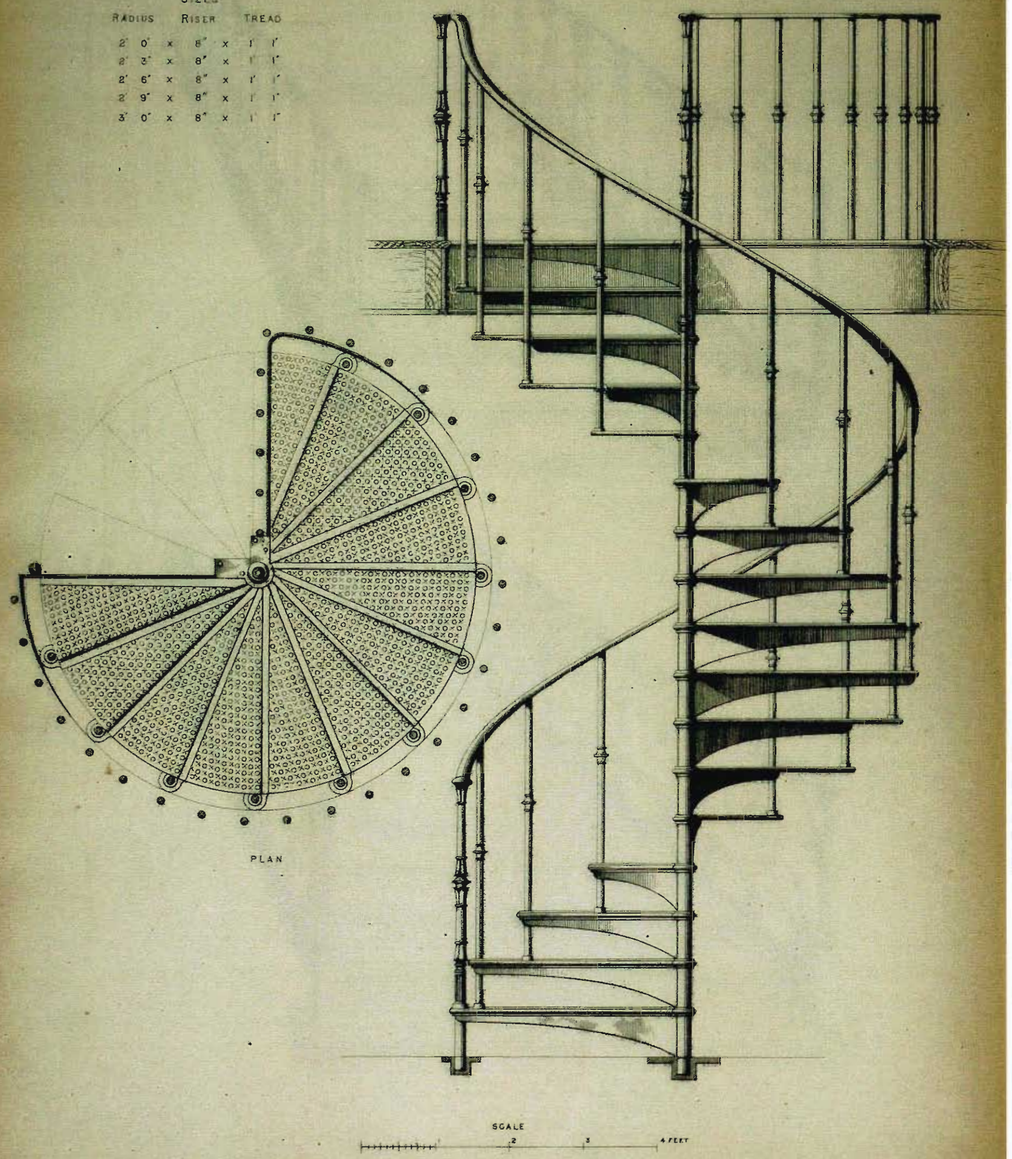
MACFARLANE'S CASTINGS — SPIRAL STAIRS

No 649

Right and Left Hand Wheel.

SIZES

RADIUS		RISER		TREAD	
2' 0"	x	8"	x	1'	1"
2' 3"	x	8"	x	1'	1"
2' 6"	x	8"	x	1'	1"
2' 9"	x	8"	x	1'	1"
3' 0"	x	8"	x	1'	1"



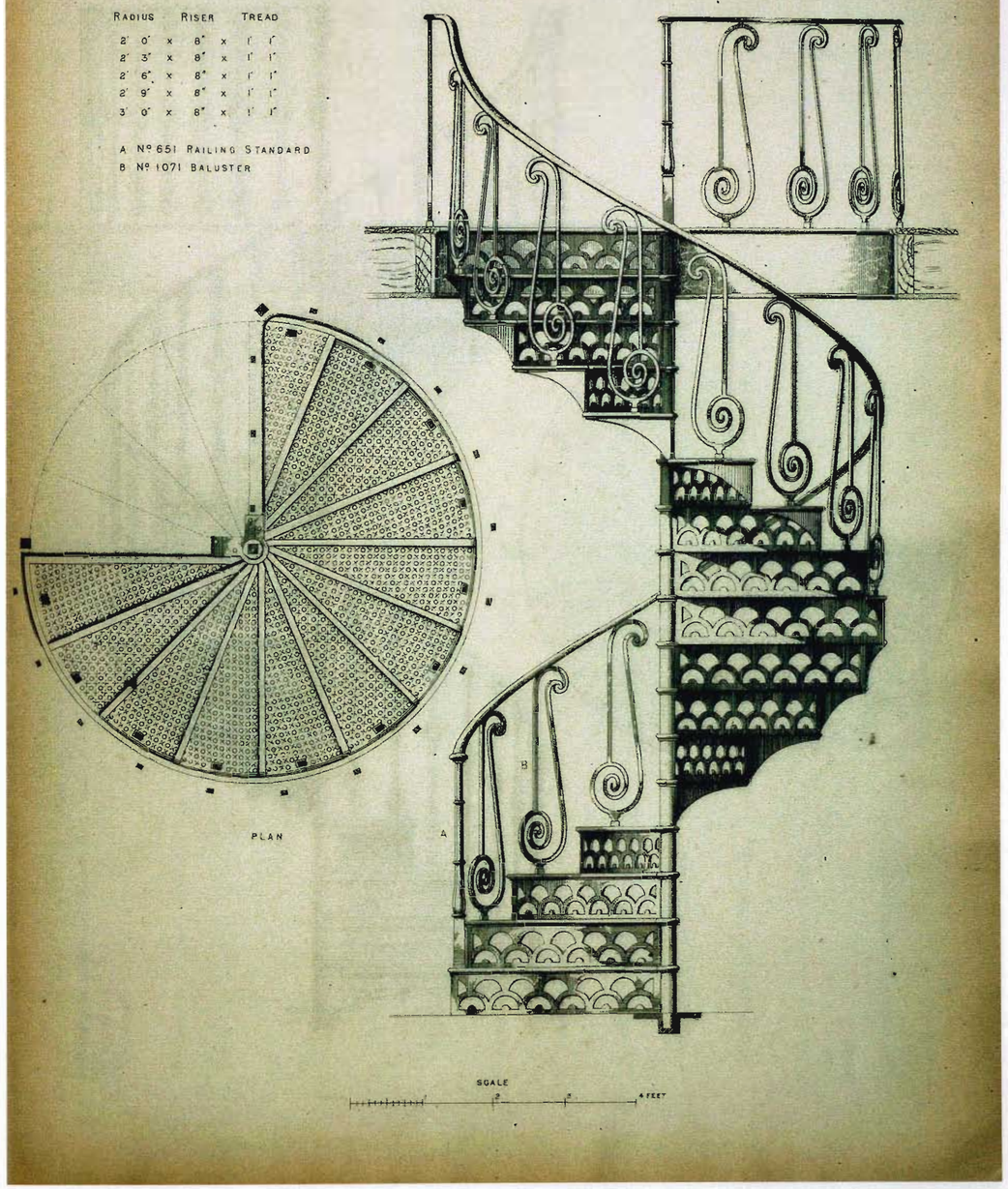
MACFARLANE'S CASTINGS — SPIRAL STAIRS

No 791

Right and Left Hand Wheel.

RADIUS		RISER		TREAD	
2' 0"	x	8"	x	1'	1"
2' 3"	x	8"	x	1'	1"
2' 6"	x	8"	x	1'	1"
2' 9"	x	8"	x	1'	1"
3' 0"	x	8"	x	1'	1"

A No 651 RAILING STANDARD
B No 1071 BALUSTER



372

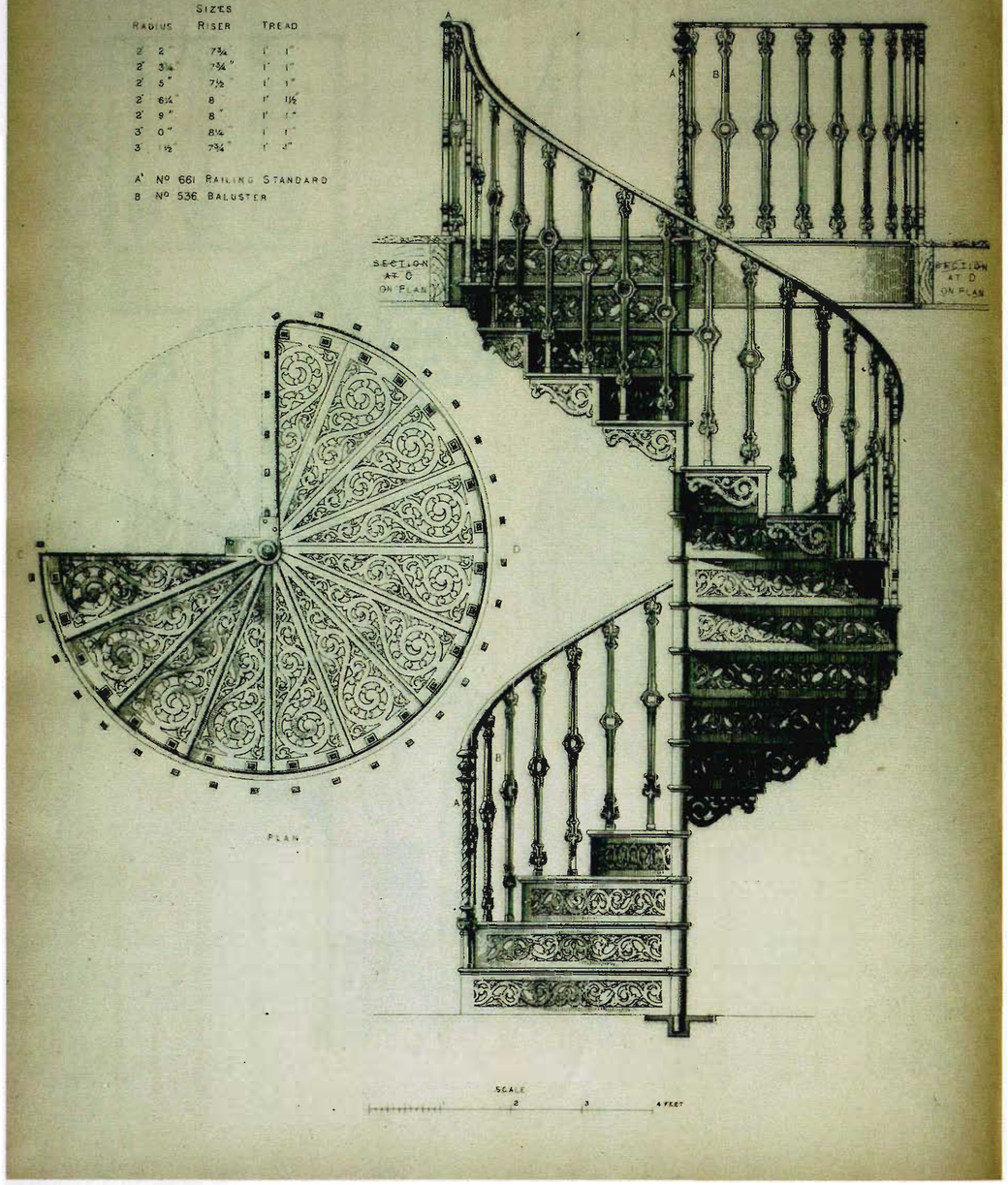
MACFARLANE'S CASTINGS — SPIRAL STAIRS

Nº 639

Right and Left Hand Wheel.

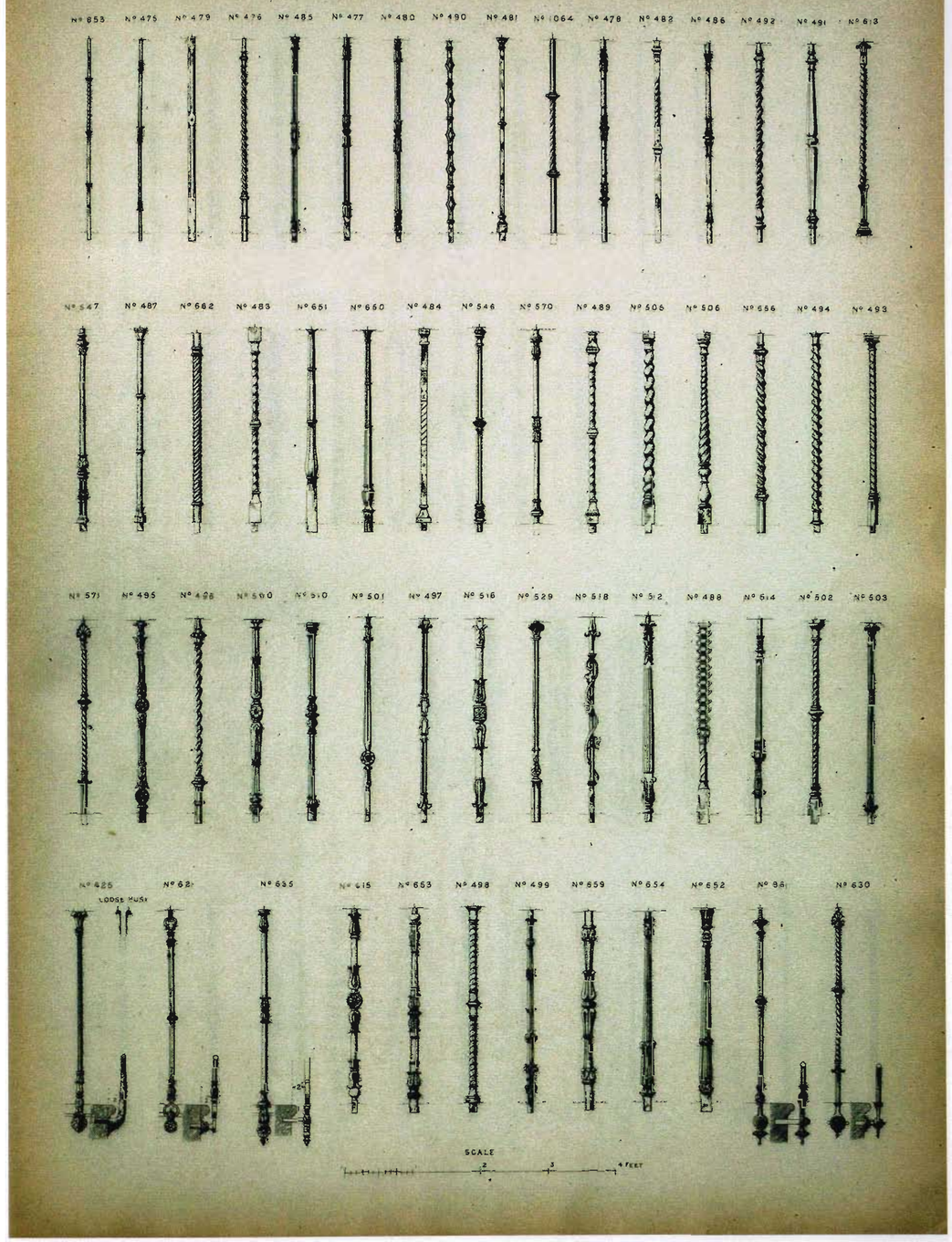
SIZES		
RADIUS	RISER	TREAD
2' 2"	7¾	1' 1"
2' 3½	7¾	1' 1"
2' 5"	7½	1' 1"
2' 6¼	8	1' 1½
2' 9"	8	1' 1"
3' 0"	8¼	1' 1"
3' 1½	7¾	1' 1"

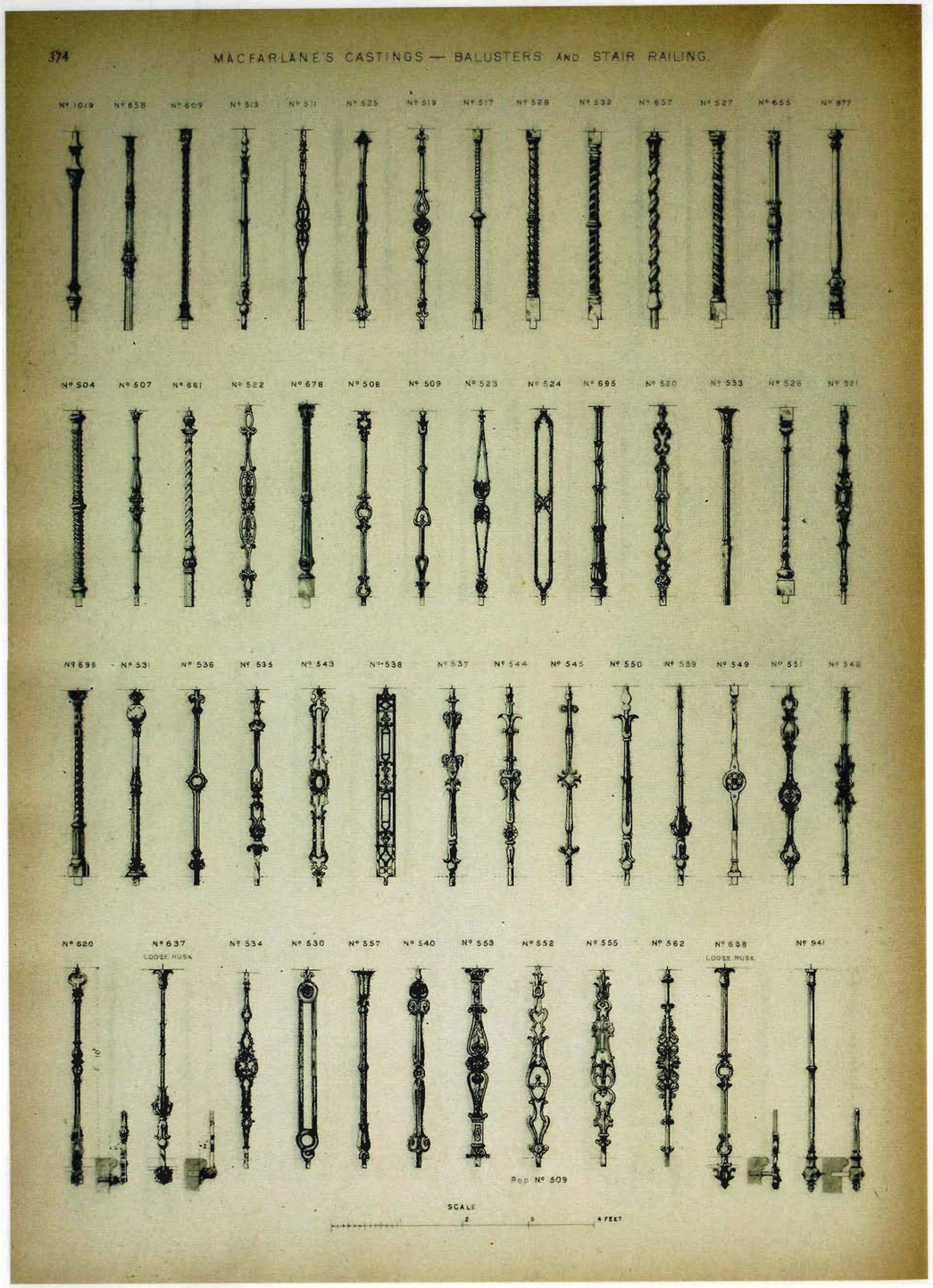
A Nº 661 RAILING STANDARD
B Nº 536 BALUSTER

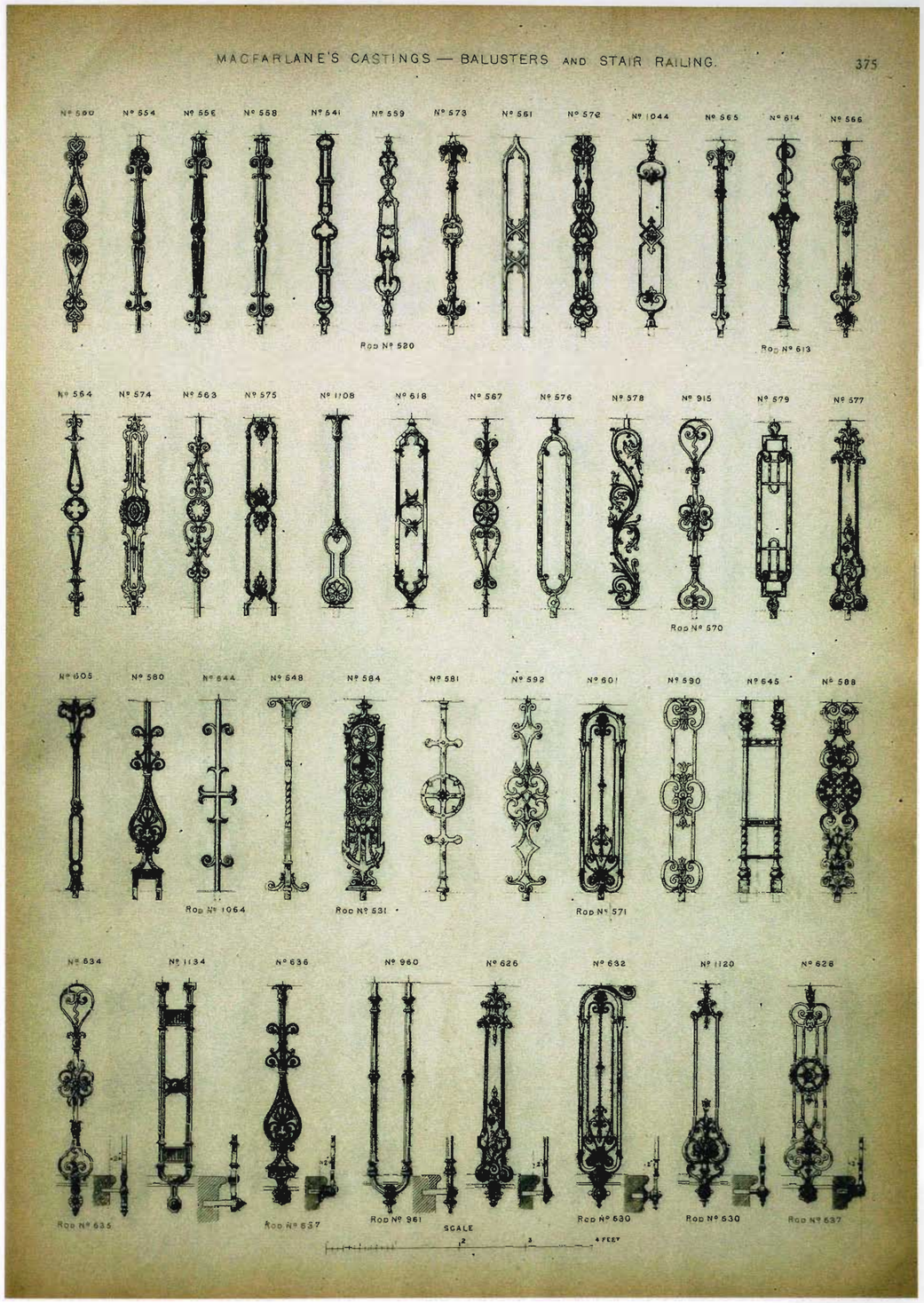


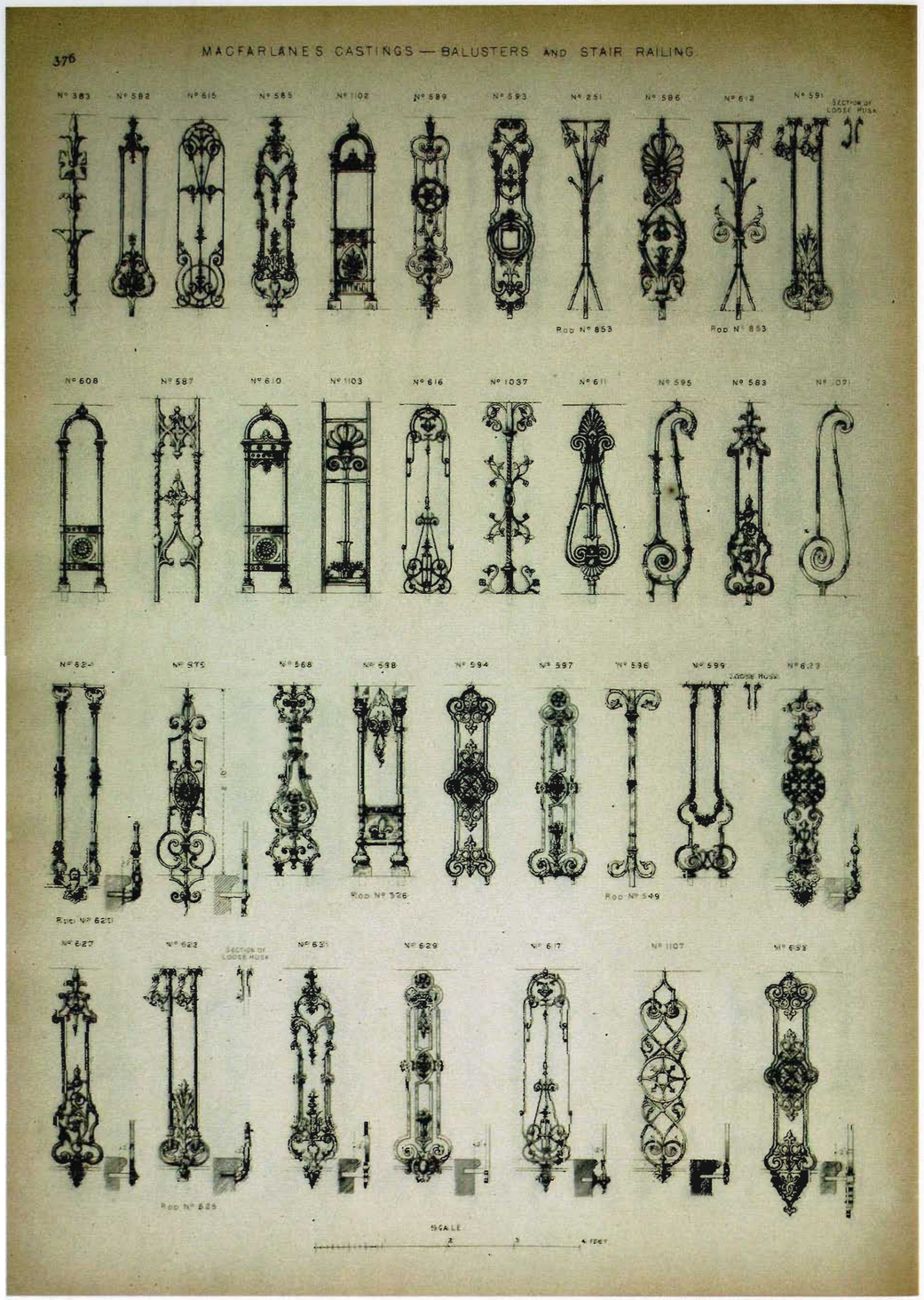
MACFARLANE'S CASTINGS — BALUSTERS AND STAIR RAILING

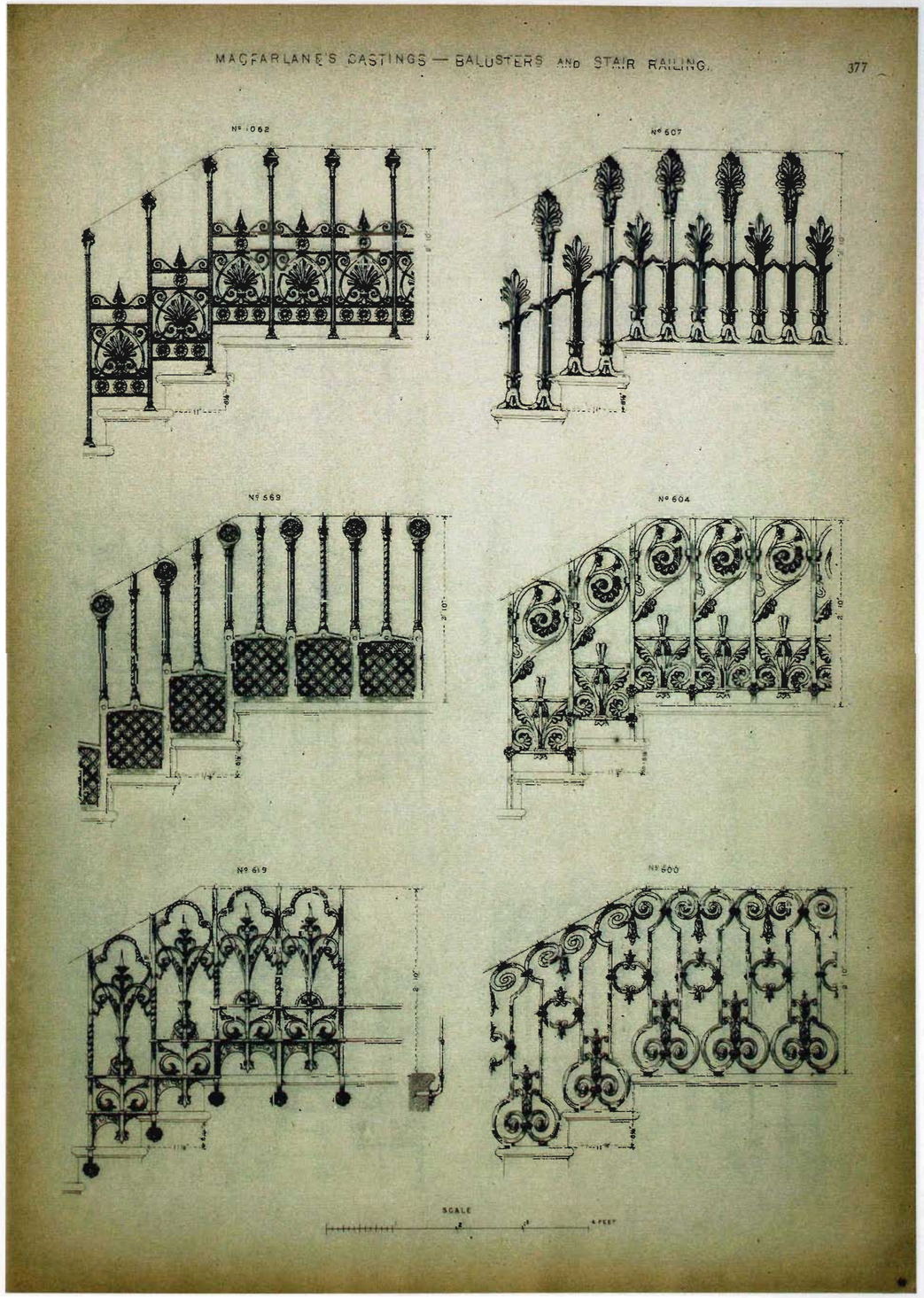
373

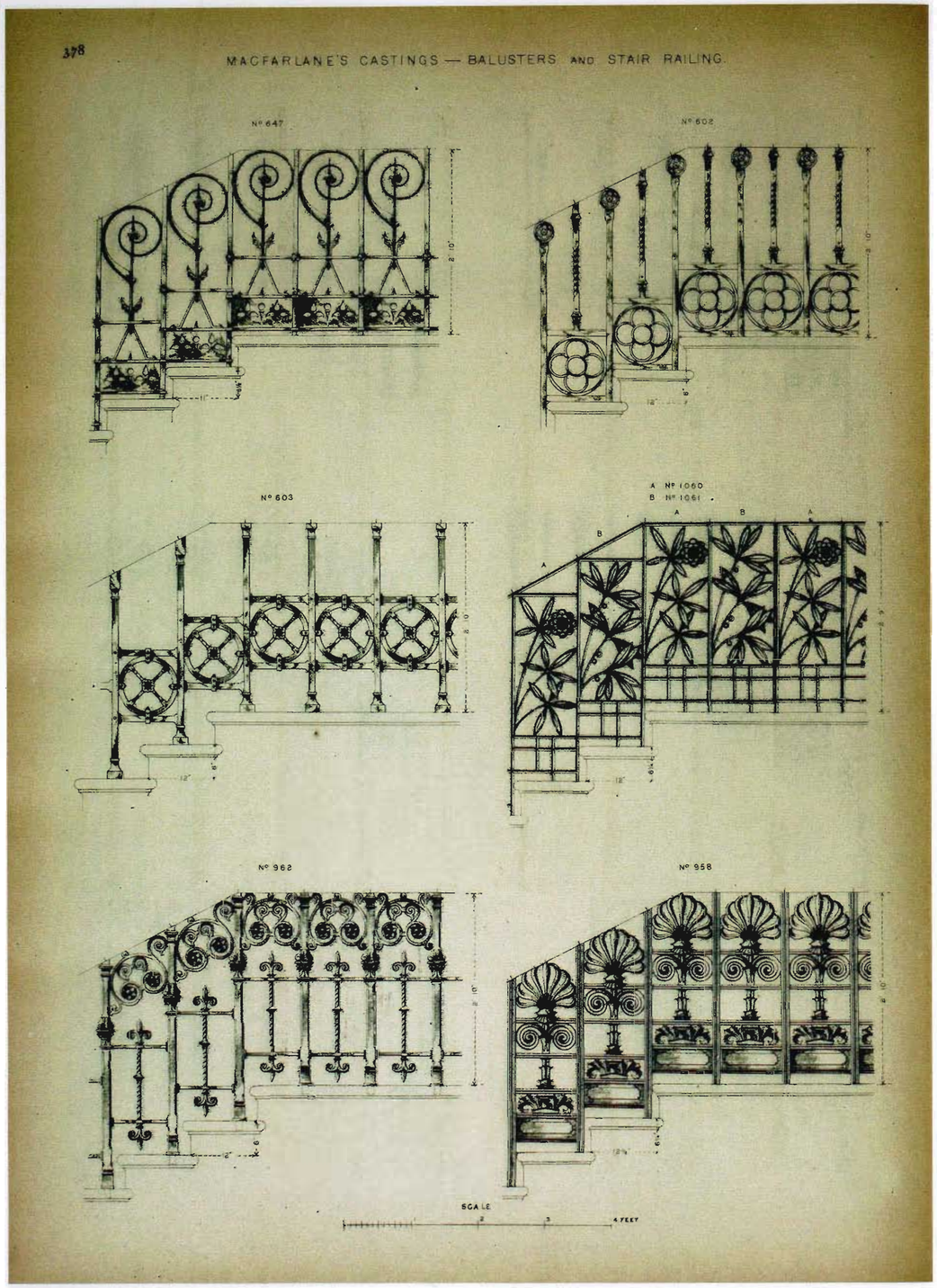


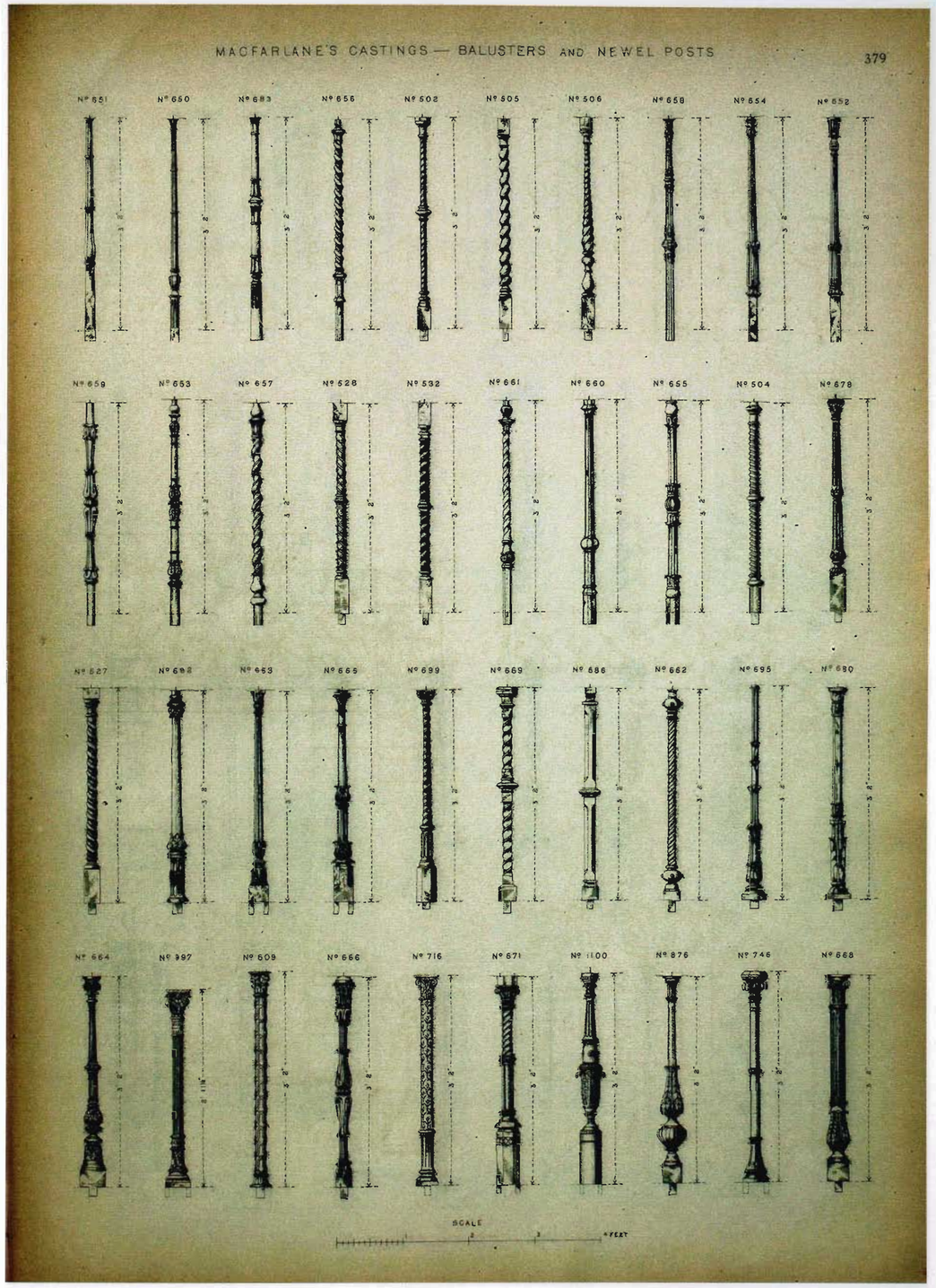

374
MACFARLANE'S CASTINGS — BALUSTERS AND STAIR RAILING.
Nº 1019
Nº 658
Nº 609
Nº 513
Nº 511
Nº 525
Nº 519
Nº 517
Nº 528
Nº 532
Nº 657
Nº 527
Nº 655
Nº 877
Nº 504
Nº 507
Nº 661
Nº 522
Nº 678
Nº 508
Nº 509
Nº 523
Nº 524
Nº 696
Nº 520
Nº 533
Nº 526
Nº 521
Nº 696
Nº 531
Nº 536
Nº 535
Nº 543
Nº 538
Nº 537
Nº 544
Nº 545
Nº 550
Nº 539
Nº 549
Nº 551
Nº 548
Nº 620
Nº 637
LOOSE HUSK
Nº 534
Nº 530
Nº 557
Nº 540
Nº 553
Nº 552
Nº 555
Nº 562
Nº 638
LOOSE HUSK
Nº 941
Rod Nº 509
SCALE
2
3
4 FEET

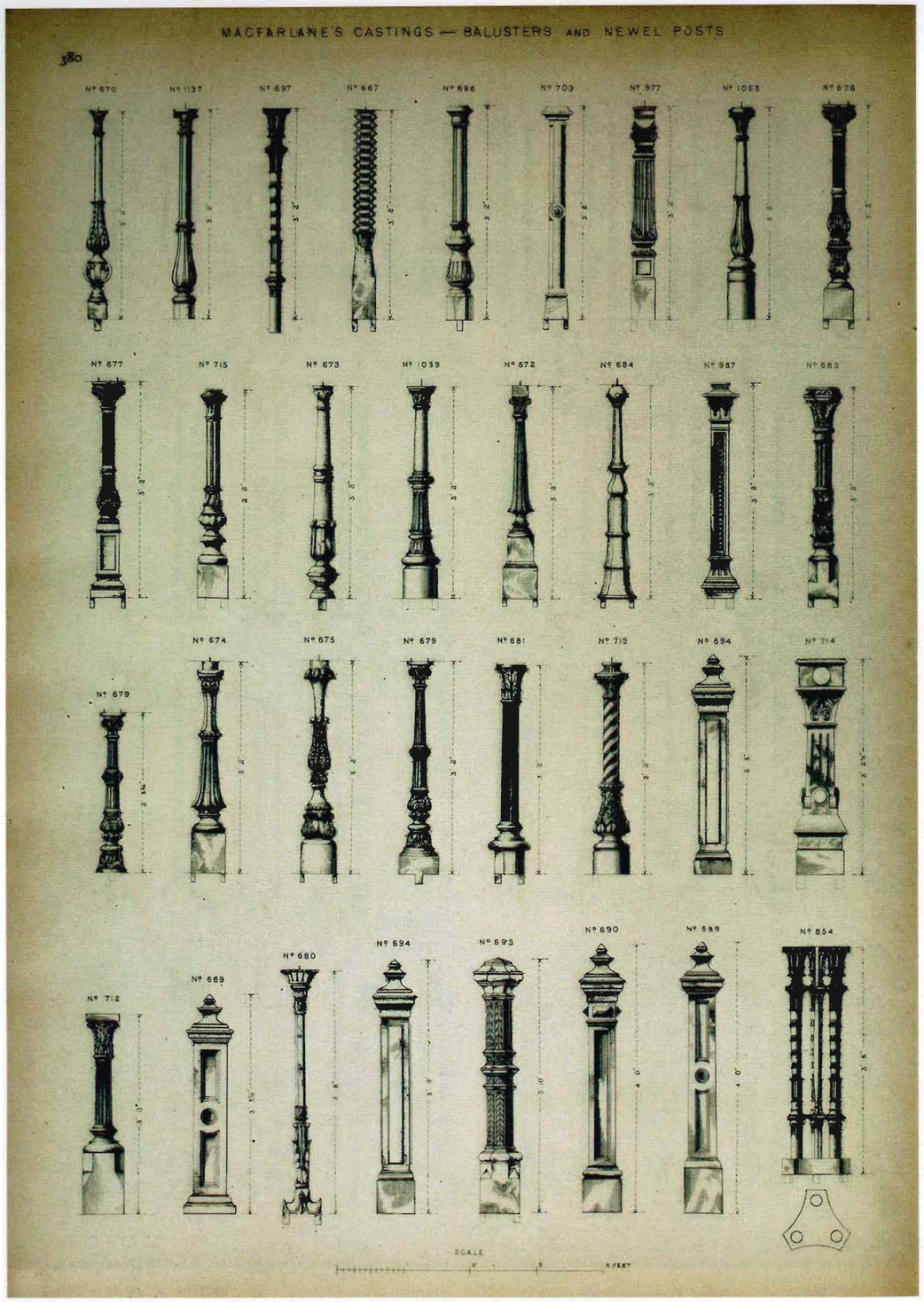

MACFARLANE'S CASTINGS — BALUSTERS AND STAIR RAILING.
375
Nº 590
Nº 554
Nº 556
Nº 558
Nº 541
Nº 559
Nº 573
Nº 561
Nº 572
Nº 1044
Nº 565
Nº 614
Nº 566
Rod Nº 520
Rod Nº 613
Nº 564
Nº 574
Nº 563
Nº 575
Nº 1108
Nº 618
Nº 567
Nº 576
Nº 578
Nº 915
Nº 579
Nº 577
Rod Nº 570
Nº 605
Nº 580
Nº 644
Nº 548
Nº 584
Nº 581
Nº 592
Nº 601
Nº 590
Nº 645
Nº 588
Rod Nº 1064
Rod Nº 531
Rod Nº 571
Nº 634
Nº 1134
Nº 636
Nº 960
Nº 626
Nº 632
Nº 1120
Nº 628
Rod Nº 635
Rod Nº 637
Rod Nº 961
SCALE
2
3
4 FEET
Rod Nº 630
Rod Nº 630
Rod Nº 637

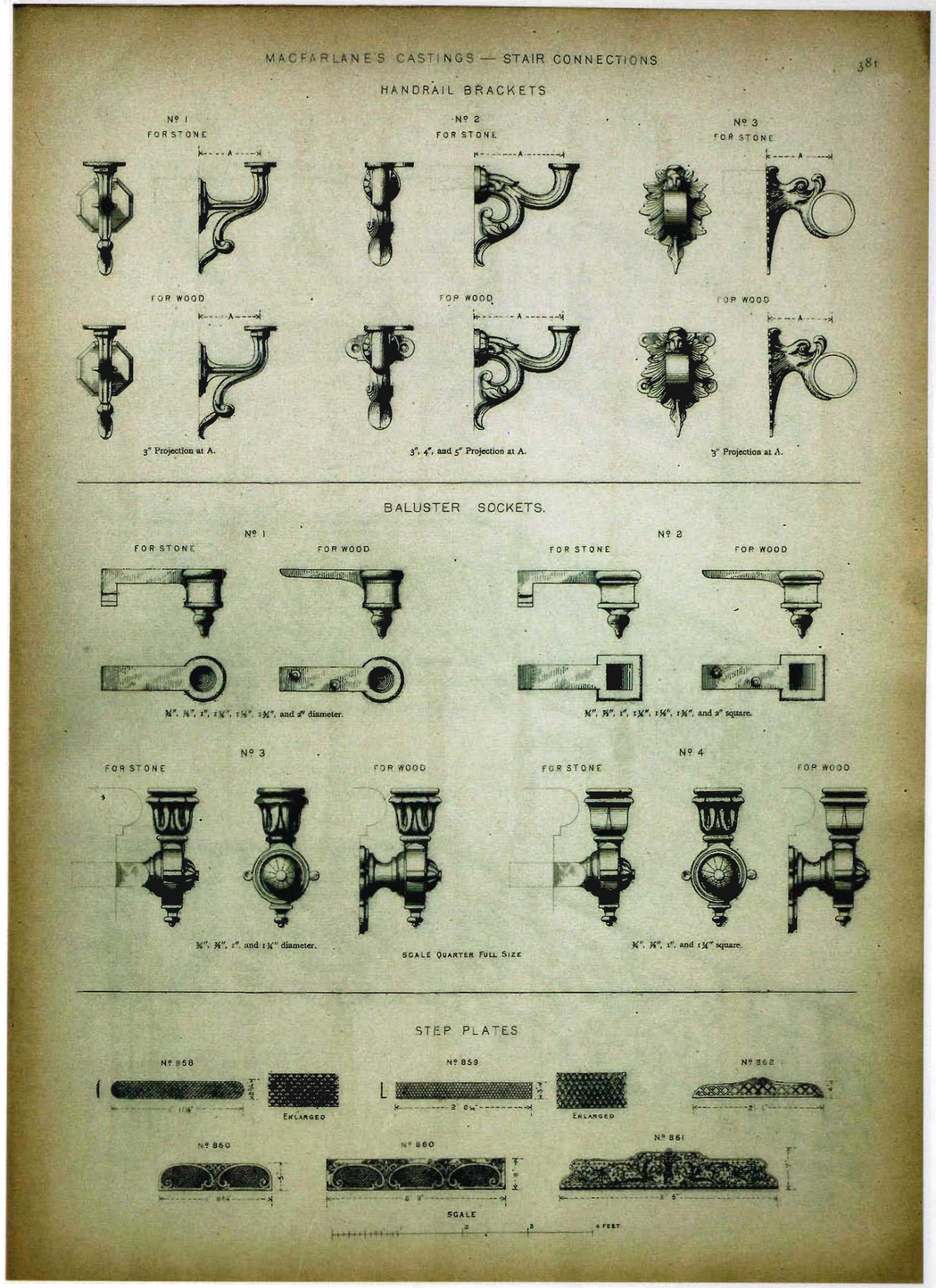

376
MACFARLANE'S CASTINGS — BALUSTERS AND STAIR RAILING.
Nº 383
Nº 582
Nº 615
Nº 585
Nº 1102
Nº 589
Nº 593
Nº 251
Nº 586
Nº 612
Nº 591
SECTION OF LOOSE HUSK
Rod Nº 853
Rod Nº 853
Nº 608
Nº 587
Nº 610
Nº 1103
Nº 616
Nº 1037
Nº 611
Nº 595
Nº 583
Nº 621
Nº 624
Nº 575
Nº 568
Nº 598
Nº 594
Nº 597
Nº 596
Nº 599
LOOSE HUSK
Nº 623
Rod Nº 326
Rod Nº 549
Rod Nº 621
Nº 627
Nº 622
SECTION OF LOOSE HUSK
Nº 631
Nº 629
Nº 617
Nº 1107
Nº 633
Rod Nº 625
SCALE
4 FEET


MACFARLANE'S CASTINGS — BALUSTERS AND STAIR RAILING.
377
Nº 1062
Nº 607
Nº 569
Nº 604
Nº 619
Nº 600
SCALE
4 FEET


378
MACFARLANE'S CASTINGS — BALUSTERS AND STAIR RAILING
Nº 647
Nº 602
Nº 603
A Nº 1060
B Nº 1061
Nº 962
Nº 958
SCALE
4 FEET


MACFARLANE'S CASTINGS — BALUSTERS AND NEWEL POSTS
379
Nº 651
Nº 650
Nº 683
Nº 656
Nº 502
Nº 505
Nº 506
Nº 658
Nº 654
Nº 652
Nº 659
Nº 653
Nº 657
Nº 526
Nº 532
Nº 661
Nº 660
Nº 655
Nº 504
Nº 678
Nº 527
Nº 692
Nº 653
Nº 655
Nº 699
Nº 669
Nº 686
Nº 662
Nº 695
Nº 680
Nº 664
Nº 997
Nº 509
Nº 666
Nº 716
Nº 671
Nº 1100
Nº 876
Nº 746
Nº 668
SCALE
4 FEET

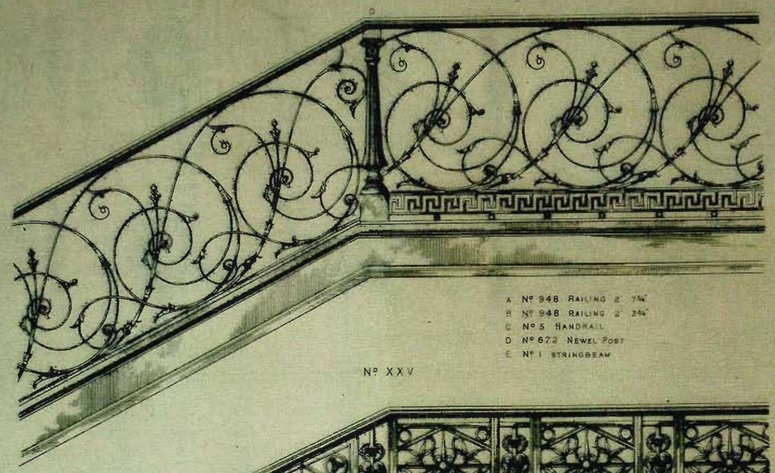

MACFARLANE'S CASTINGS — BALUSTERS AND NEWEL POSTS
380
Nº 670
Nº 1137
Nº 697
Nº 667
Nº 696
Nº 703
Nº 977
Nº 1055
Nº 678
Nº 677
Nº 715
Nº 673
Nº 1039
Nº 672
Nº 684
Nº 987
Nº 685
Nº 679
Nº 674
Nº 675
Nº 679
Nº 681
Nº 713
Nº 694
Nº 714
Nº 712
Nº 689
Nº 680
Nº 694
Nº 693
Nº 690
Nº 689
Nº 854
SCALE
4 FEET


MACFARLANE'S CASTINGS — STAIR CONNECTIONS
381
HANDRAIL BRACKETS
Nº 1
FOR STONE
FOR WOOD
3" Projection at A.
Nº 2
FOR STONE
FOR WOOD
3", 4", and 5" Projection at A.
Nº 3
FOR STONE
FOR WOOD
3" Projection at A.
BALUSTER SOCKETS.
Nº 1
FOR STONE
FOR WOOD
¾", ⅞", 1", 1⅛", 1¼", 1⅜", and 2" diameter.
Nº 2
FOR STONE
FOR WOOD
¾", ⅞", 1", 1¼", 1⅜", 1⅛", and 2" square.
Nº 3
FOR STONE
FOR WOOD
¾", ⅞", 1", and 1¼" diameter.
Nº 4
FOR STONE
FOR WOOD
¾", ⅞", 1", and 1¼" square.
SCALE QUARTER FULL SIZE
STEP PLATES
Nº 858
ENLARGED
Nº 859
ENLARGED
Nº 862
Nº 860
Nº 860
Nº 861
SCALE
4 FEET

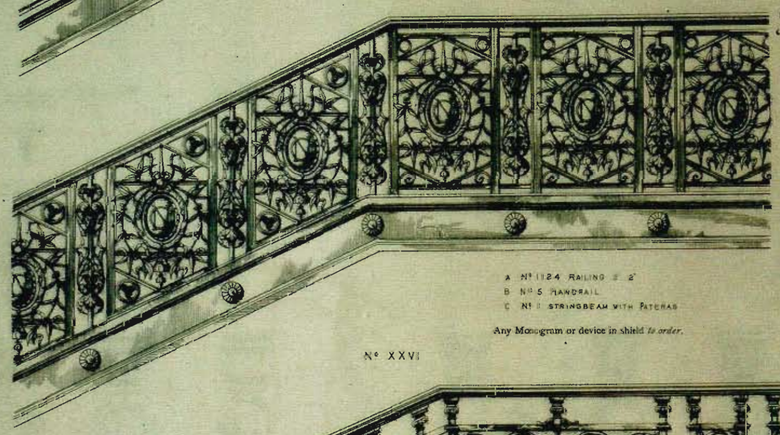
MACFARLANE'S CASTINGS — EXAMPLES

Application of Railing &c. to Stairs.

Nº XXIV

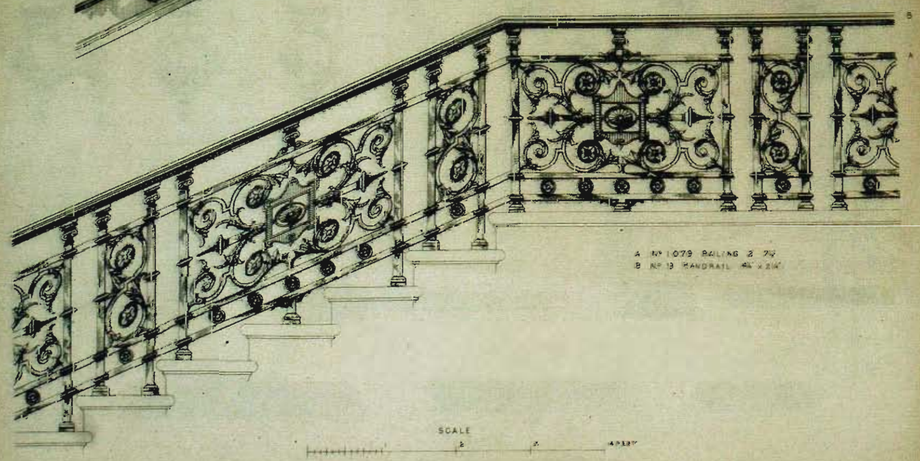


Nº XXV



Any Monogram or device in shield *to order*.

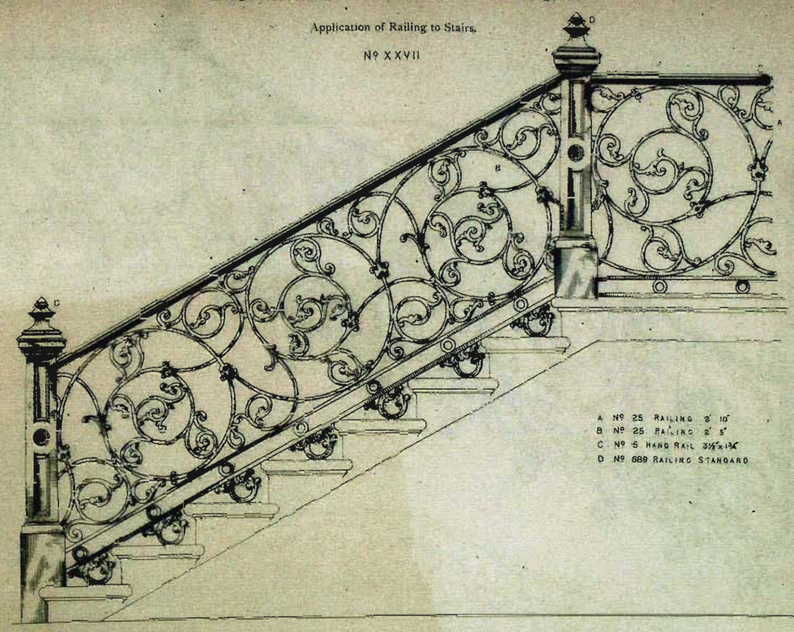
Nº XXVI



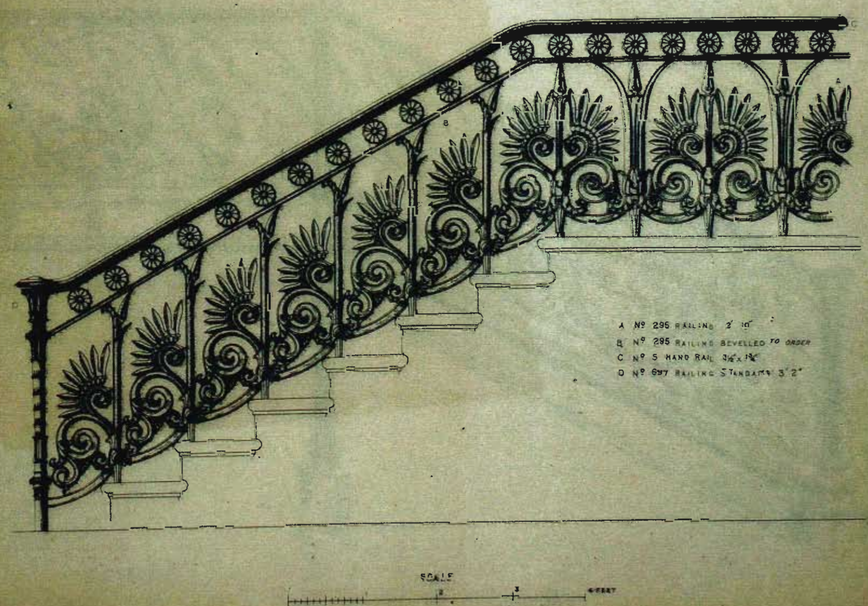
MACFARLANE'S CASTINGS — EXAMPLES

Application of Railing to Stairs.

Nº XXVII



Nº XXVIII



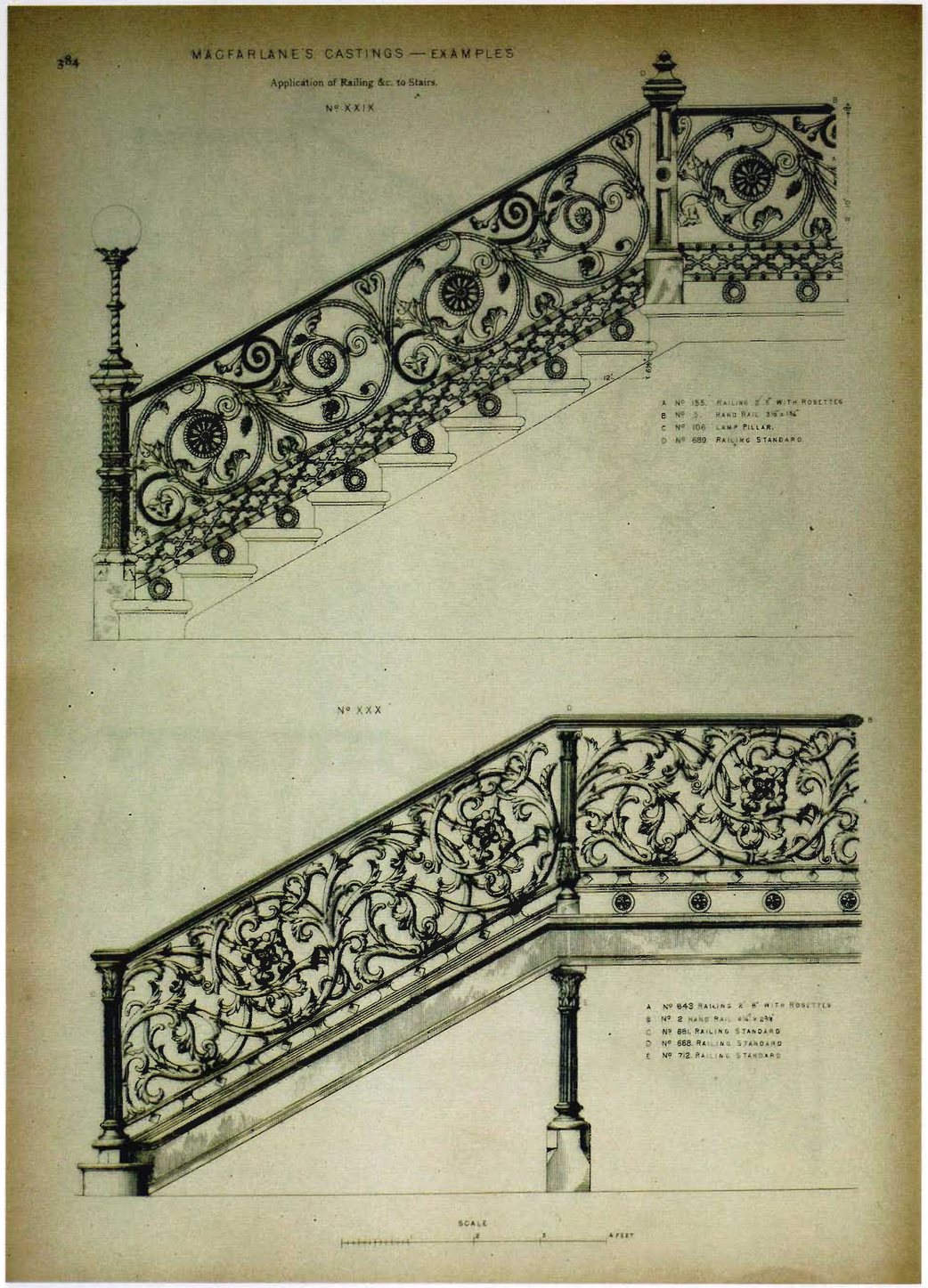


ILLUSTRATION MISSING FROM THE ORIGINAL

ILLUSTRATION MISSING FROM THE ORIGINAL

SECTION IX.—BALCONIES.

SEPARATE AND CONTINUOUS, FOR CONVENIENCE, SAFETY, OUTLOOK, AND DECORATION.

The great convenience and comfort derived from Balconies in connection with public rooms, make them most useful adjuncts to a well-appointed dwelling. The enhanced interest they give to the architecture, their utility for private houses as an open air retreat, and for tenements, warehouses, factories, stores, &c., as a means of entrance, of communication, and of escape from fire, render them invaluable for every class of building. Window Balconies and Flower Guards are an effective and economical source of architectural beauty and give facilities for floral decoration, the taste for which is happily becoming more general. Besides the designs illustrated in this section, many others equally suitable will be found by reference to Section V.—Railing.

Please insert in Specification "To be **Macfarlane's Castings, from Saracen Foundry, Glasgow,**" to prevent an inferior article being supplied.

Balconies,	pages 387—393	Railing,	see Section V., pages 172—288
Examples,	„ 394—396	Standards,	„ VI., „ 334—339
Also other examples at end of Catalogue.		Floor Gratings,	„ VII., „ 363—367

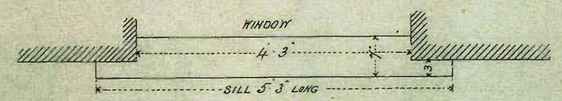
The Illustrations are arranged in the order of their heights.

DIRECTIONS FOR ORDERING.

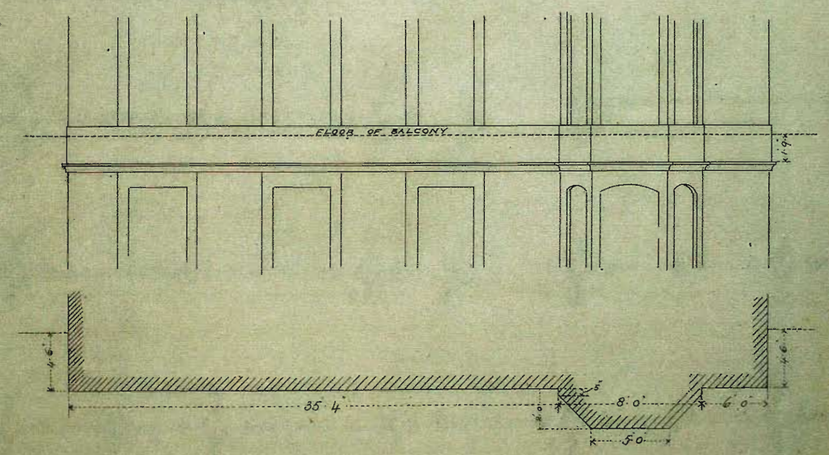
State the Nos. and sizes, and if necessary send a rough sketch of the part of building the Balcony is to be fixed to, giving exact measurements, and stating the nature of the fixings whether for stone, brick, wood, or iron. The following examples show the simplest method of ordering.

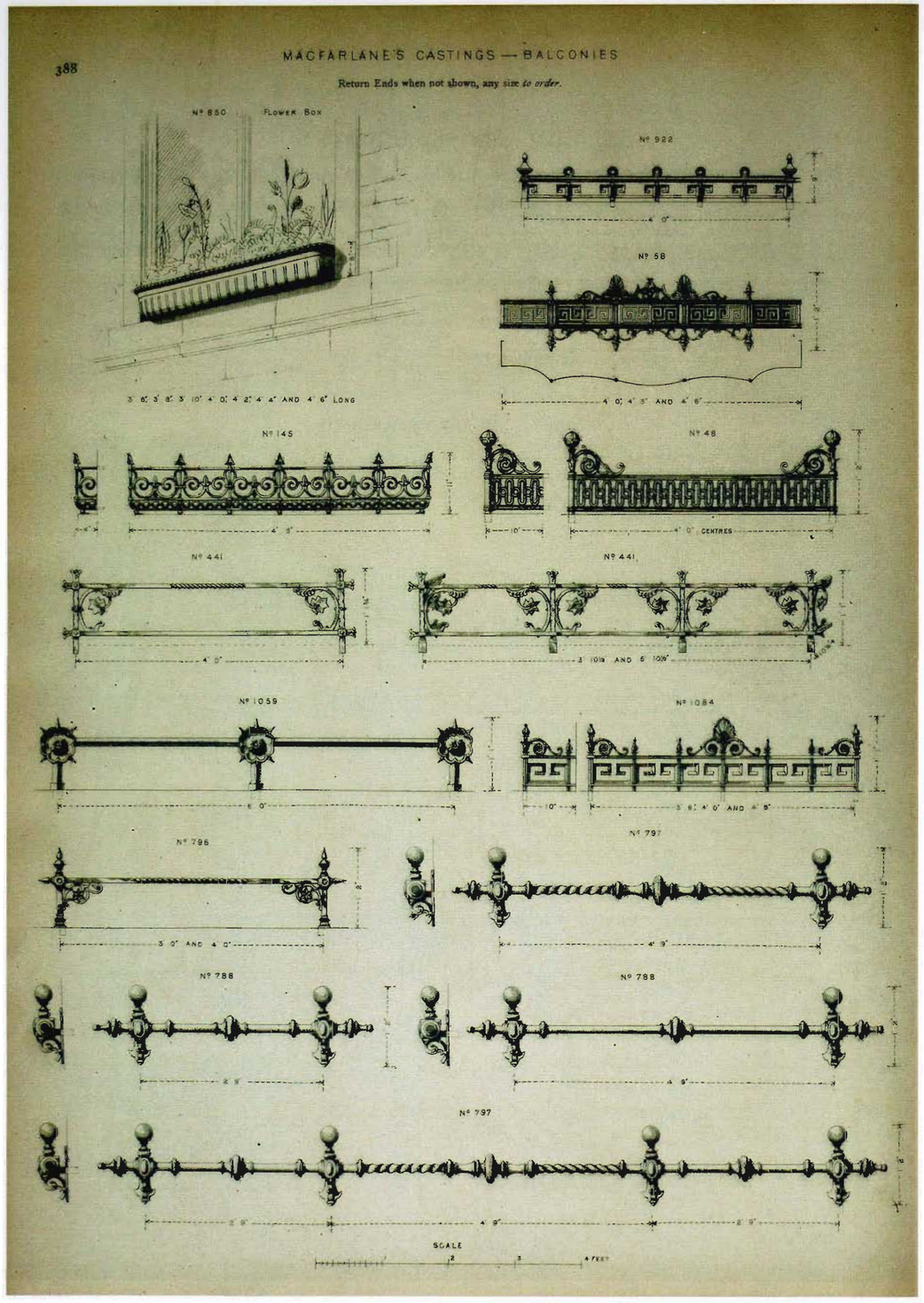
5 No. 1089 Balconies 1′ 9″ × 4′ 6″ with 10″ return ends, and having batts on bottom and ends for stone.

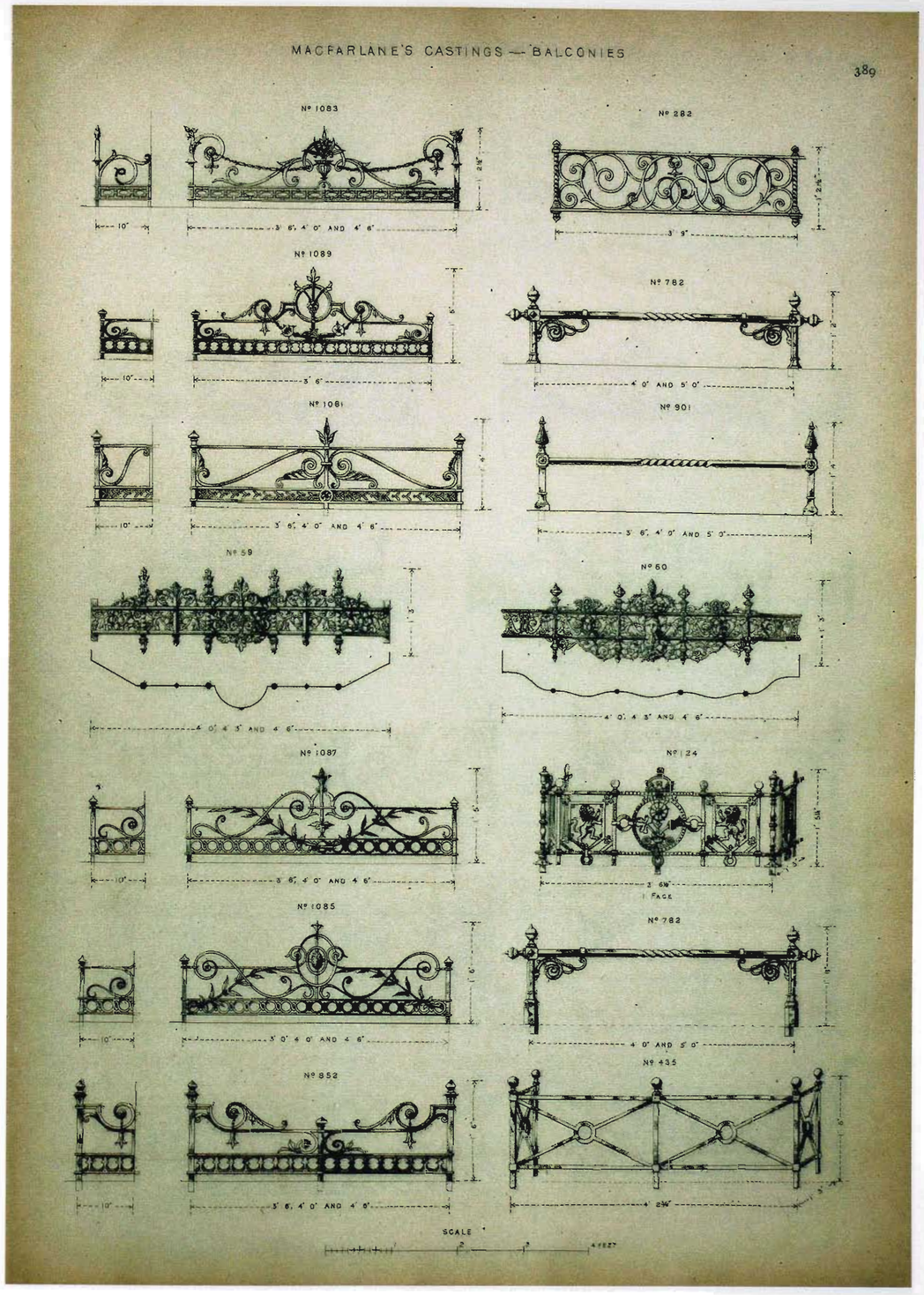
8 No. 163 Balconies 3′ 0″ × 5′ 7″ with return ends 1′ 3″, and No. 389 Grating 1′ 6″ for sole, supported by 2 No. 23 Brackets 1′ 3¼″ × 1′ 5¼″ for fixing to stonework as sketch. Grating to rest on sill and be carried in to line of window.

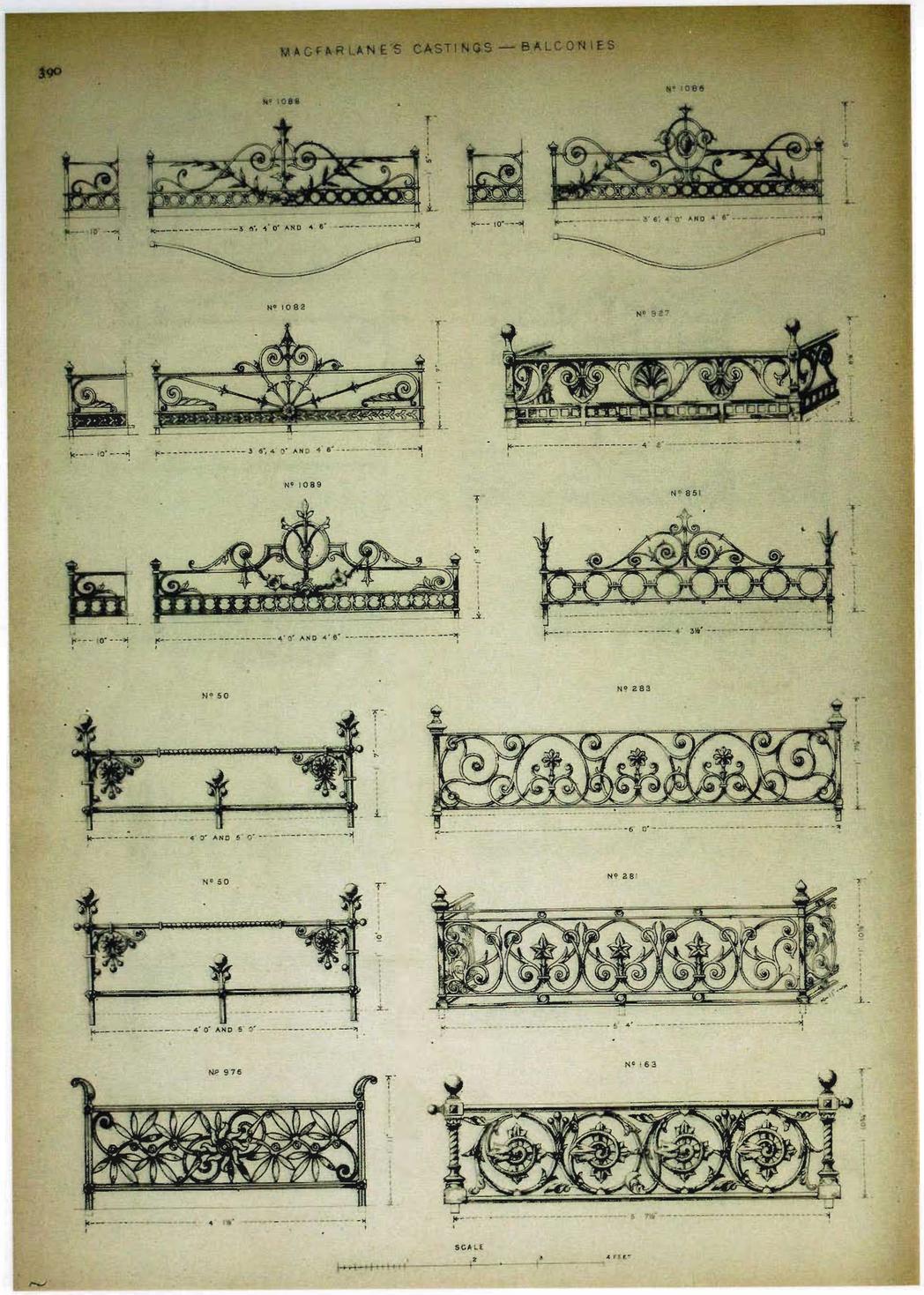


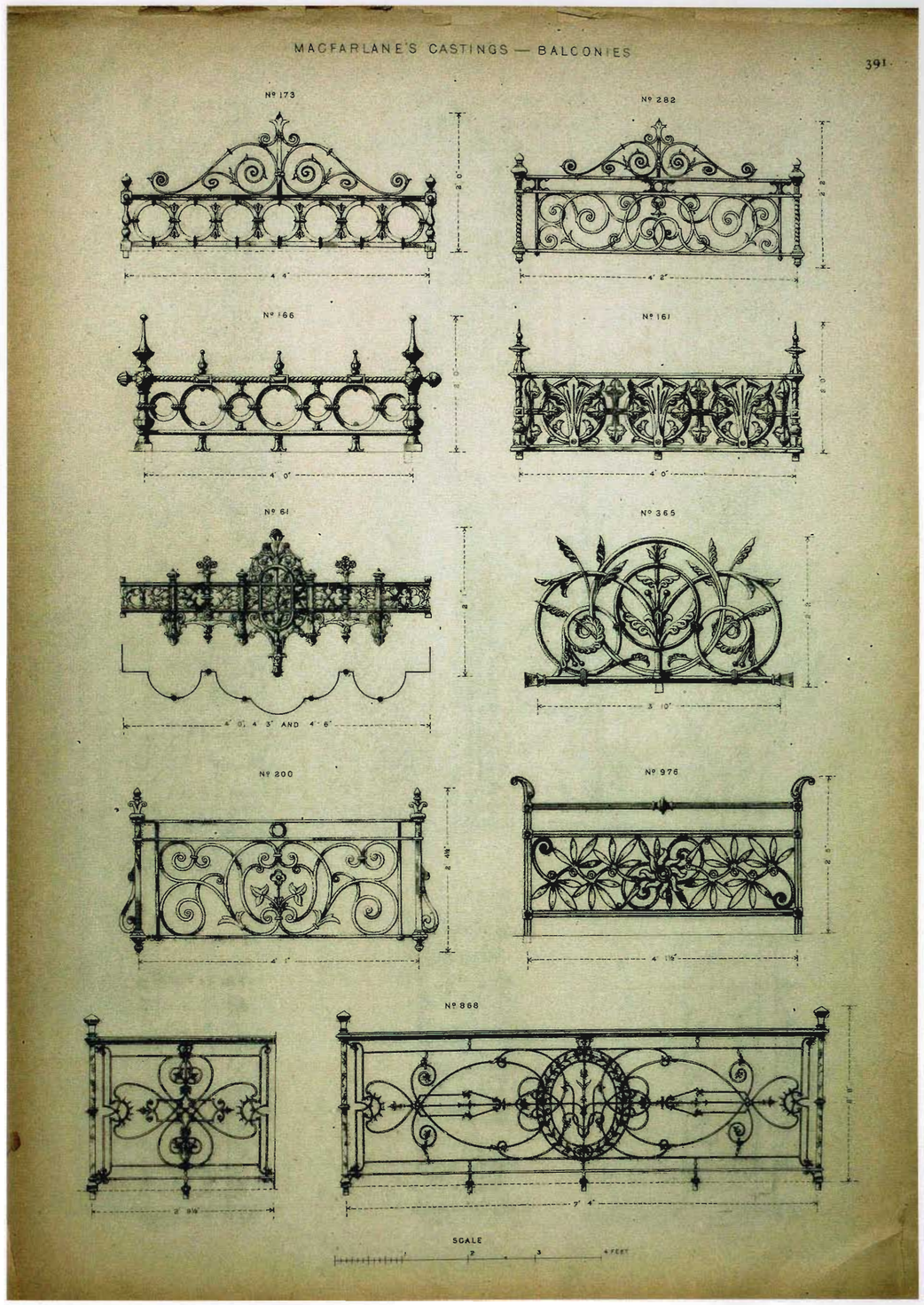
1 No. 868 Balcony 2′ 10″ high × 3′ 0″ projection, with No. 5 Handrail 3″ × 1½″, No. 1117 Grating 2′ 11″ for sole, with necessary girders, &c., and supported on No. 43 Brackets 3′ 1″ × 1′ 6″, fitted complete to measurements of Stonework as sketch.

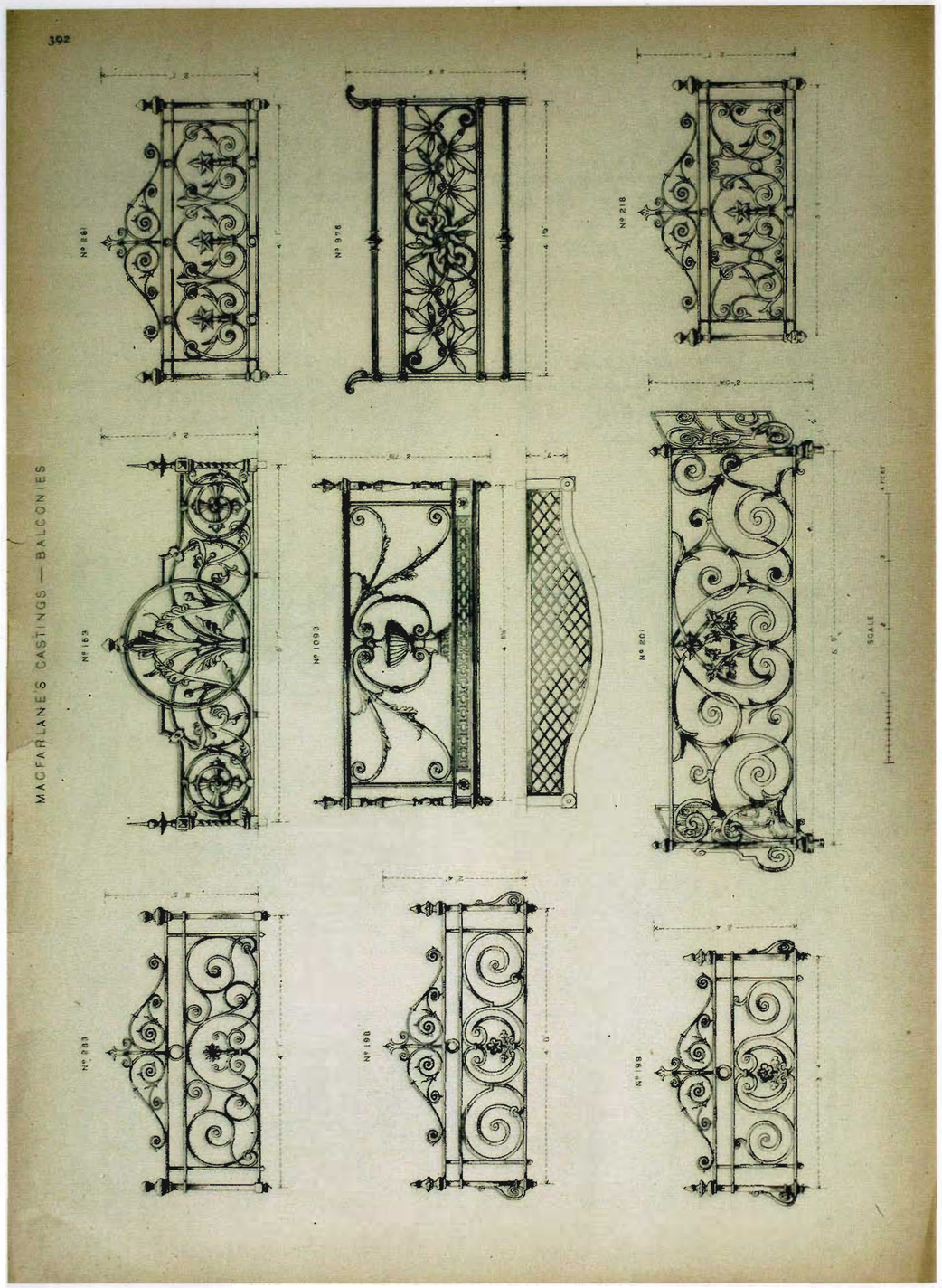


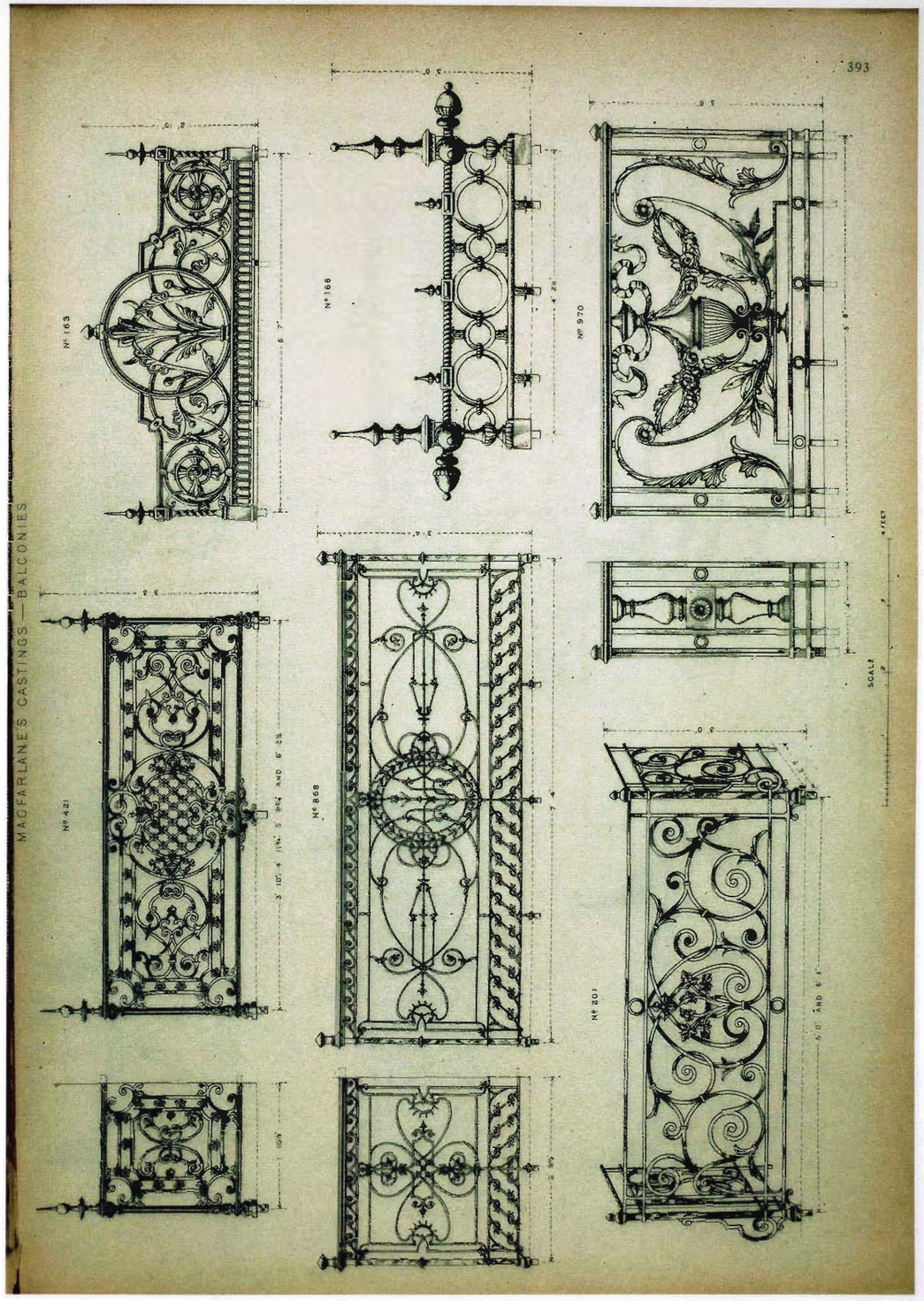

388
MACFARLANE'S CASTINGS — BALCONIES
Return Ends when not shown, any size to order.
Nº 850 Flower Box
Nº 922
Nº 58
3' 6", 3' 8", 3' 10", 4' 0", 4' 2", 4' 4" AND 4' 6" LONG
4' 0", 4' 5" AND 4' 8"
Nº 145
Nº 48
4' 5"
10"
4' 0" CENTRES
Nº 441
Nº 441
4' 0"
3' 10½" AND 6' 10½"
Nº 1059
Nº 1084
6' 0"
10"
3' 6", 4' 0" AND 4' 6"
Nº 796
Nº 797
3' 0" AND 4' 0"
4' 9"
Nº 788
Nº 788
2' 9"
4' 9"
Nº 797
2' 9"
4' 9"
2' 9"
SCALE
1 2 3 4 FEET


MACFARLANE'S CASTINGS — BALCONIES
389
Nº 1083
Nº 282
10"
3' 6", 4' 0" AND 4' 6"
3' 9"
Nº 1089
Nº 782
10"
3' 6"
4' 0" AND 5' 0"
Nº 1081
Nº 901
10"
3' 6", 4' 0" AND 4' 6"
3' 6", 4' 0" AND 5' 0"
Nº 59
Nº 60
4' 0", 4' 5" AND 4' 8"
4' 0", 4' 5" AND 4' 8"
Nº 1087
Nº 124
10"
3' 6", 4' 0" AND 4' 6"
3' 6½"
1 PAGE
Nº 1085
Nº 782
10"
3' 0", 4' 0" AND 4' 6"
4' 0" AND 5' 0"
Nº 852
Nº 435
10"
3' 6", 4' 0" AND 4' 6"
4' 2½"
SCALE
1 2 3 4 FEET


MACFARLANE'S CASTINGS — BALCONIES
390
Nº 1088
3' 6", 4' 0" AND 4' 6"
Nº 1086
3' 6", 4' 0" AND 4' 6"
Nº 1082
3' 6", 4' 0" AND 4' 6"
Nº 927
4' 6"
Nº 1089
4' 0" AND 4' 6"
Nº 851
4' 3½"
Nº 50
4' 0" AND 5' 0"
Nº 283
6' 0"
Nº 50
4' 0" AND 5' 0"
Nº 281
5' 4"
Nº 976
4' 11½"
Nº 163
5' 7½"
SCALE
1 2 3 4 FEET

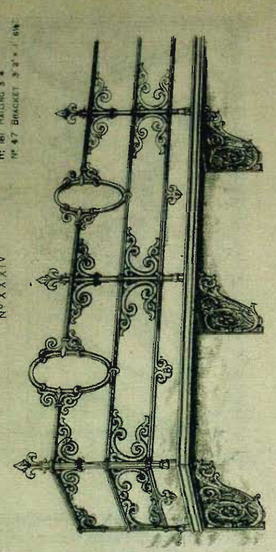

MACFARLANE'S CASTINGS — BALCONIES
391
Nº 173
4' 4"
Nº 282
4' 2"
Nº 166
4' 0"
Nº 161
4' 0"
Nº 64
4' 0", 4' 3" AND 4' 6"
Nº 365
3' 10"
Nº 200
4' 1"
Nº 976
4' 11½"
Nº 868
2' 9½"
7' 4"
SCALE
1 2 3 4 FEET


392
MACFARLANE'S CASTINGS — BALCONIES
Nº 281
Nº 978
Nº 218
Nº 183
Nº 1093
Nº 201
SCALE
Nº 283
Nº 198
Nº 198


393
MACFARLANE'S CASTINGS — BALCONIES
Nº 163
Nº 166
Nº 970
Nº 421
Nº 868
Nº 201
SCALE

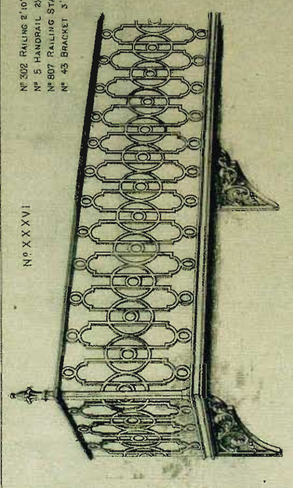
MACFARLANE'S CASTINGS — EXAMPLES

Application of Ironwork to Balconies.



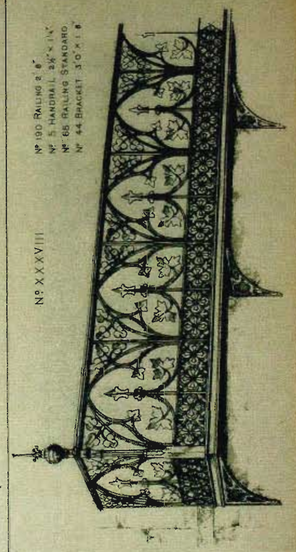
Nº XXXIII
Nº 150 Railing 2'-7"
Nº 85 Bracket 1'-9½" x 2'-3"

Nº XXXIV
Nº 181 Railing 3'-4"
Nº 47 Bracket 3'-2" x 1'-6¾"



Nº XXXV
Nº 302 Railing 2'-10"
Nº 5 Handrail 2½" x 1¼"
Nº 807 Railing Standard
Nº 43 Bracket 3'-1" x 1'-8"

Nº XXXVI
Nº 42 Railing 2'-6"
Nº 5 Handrail 2½" x 1¼"
Nº 807 Railing Standard
Nº 71 Bracket 1' 9½" x 1' 3¼"

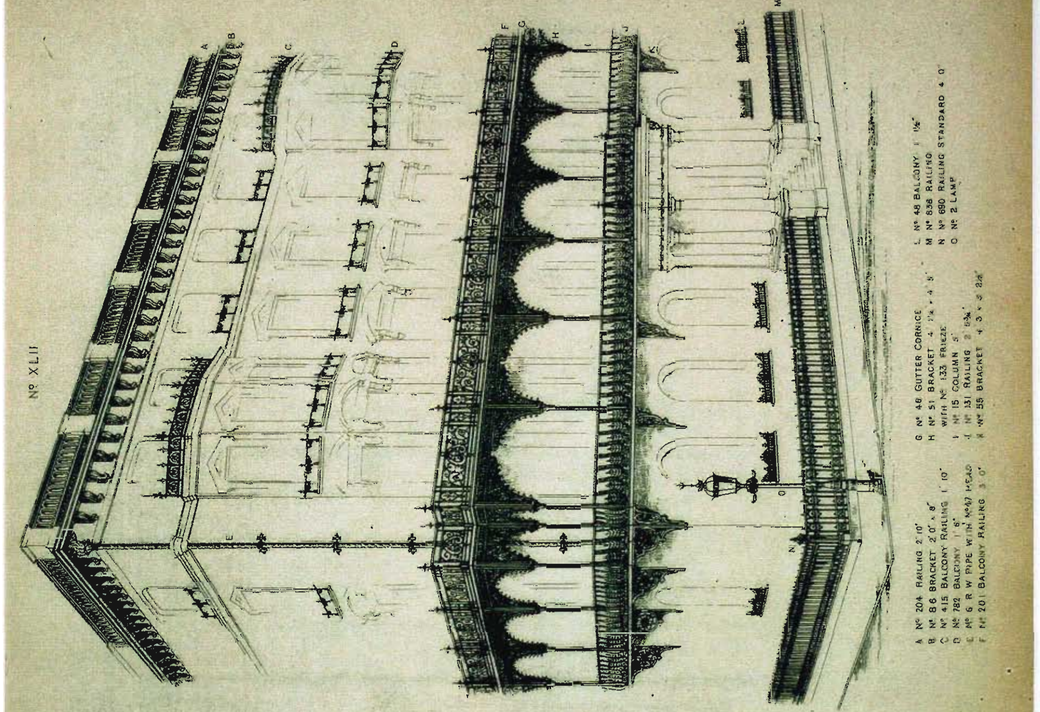


Nº XXXVII
Nº 209 Railing 2'-11"
Nº 47 Railing Standard 3'-3"
Nº 68 Bracket 2 2¾" x 1' 1½"

Nº XXXVIII
Nº 190 Railing 2'-8"
Nº 5 Handrail 2½" x 1¼"
Nº 866 Railing Standard
Nº 44 Bracket 3'-0" x 1'-6"

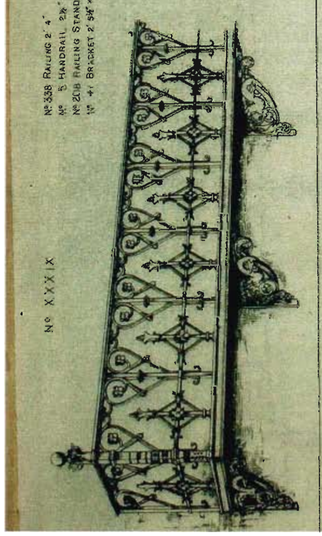
Ornamental Floor Plate
Solid or Perforated to order

Nº XLII



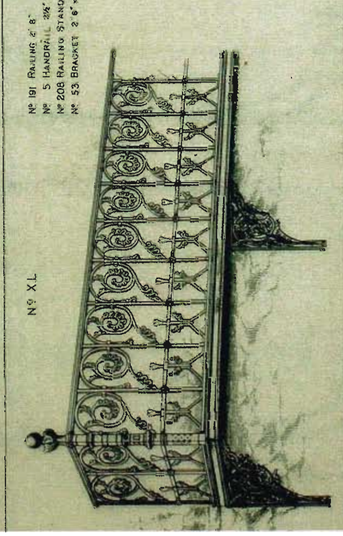
A Nº 204 Railing 2'-10"
B Nº 86 Bracket 2'-0" x 8"
C Nº 415 Balcony Railing 1'-10"
D Nº 782 Balcony 1'-8"
E Nº 6 R W Pipe with Nº 47 Head
F Nº 201 Balcony Railing 3'-0"
G Nº 48 Gutter Cornice
H Nº 51 Bracket 4'-1¾" x 4'-5"
with Nº 133 Frieze
I Nº 15 Column 5'-
J Nº 131 Railing 2'-6¾"
K Nº 55 Bracket 4'-3" x 2'-2½"
L Nº 48 Balcony 1'-1½"
M Nº 838 Railing
N Nº 690 Railing Standard 4'-0"
O Nº 2 Lamp

Nº XXXIX



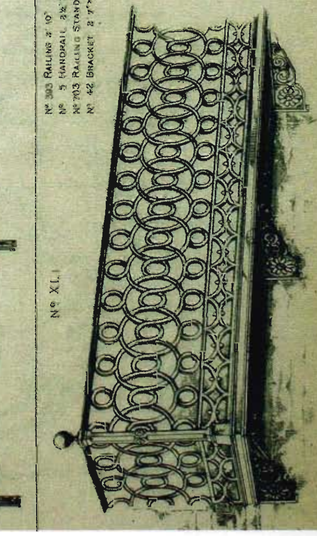
Nº 338 Railing 2'-4"
Nº 5 Handrail 2½" x 1¼"
Nº 208 Railing Standard
1'-4" Bracket 2' 5½" x 1'-4"

Nº XL



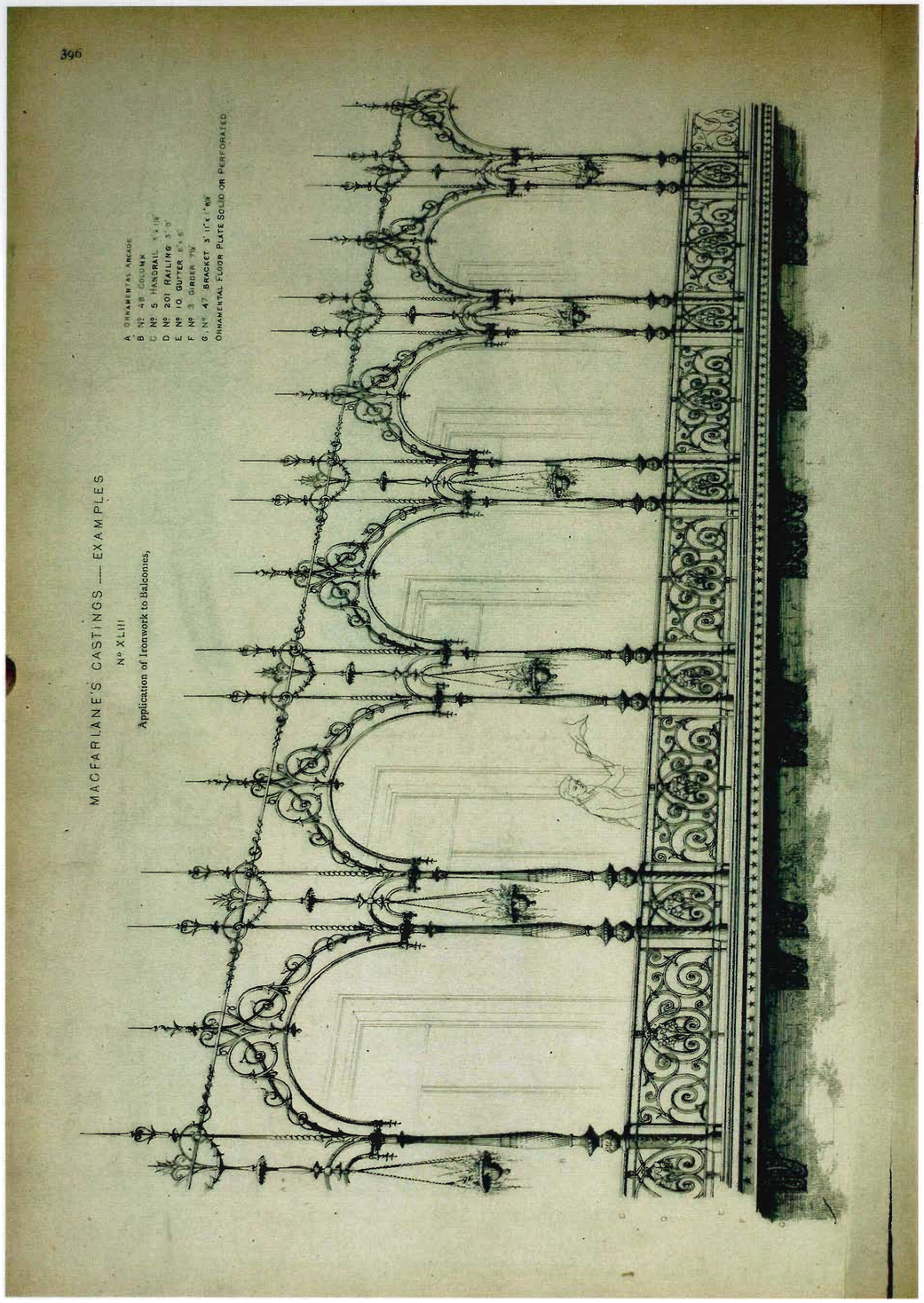
Nº 191 Railing 2'-8"
Nº 5 Handrail 2½" x 1¼"
Nº 208 Railing Standard
Nº 53 Bracket 2'-6" x 2'-4"

Nº XLI



Nº 380 Railing 2'-10"
Nº 5 Handrail 2½" x 1¼"
Nº 703 Railing Standard
Nº 442 Bracket 2'-7" x 2'-4"

Ornamental Floor Plate
Solid or Perforated to order



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