## RAILVAY JOTTINGS.

Thy opening and naming of "the Royal Border Bridge." at Berwick, by her Majeaty and Prince Albert on their progresa to the anciemt palace of their anceswrial famis at Edinburgb, may be regarded an the main evmo in railway progress during the week, sod as "the that act of the C'nion" of Baglaod with Scotiond and itwingly race, as colurly ceatractom hare arelly yet deroroualy styled it in the fowery language of hypertiole. The coor as ruction of the narrow old bridge of Jamea the Firmt' time was a job of iwenty-four vearn standing, carried out, it is alleged, with the mere interent on the inatalmente propeid by the Trearery to the conirectors. The present fropoine atructure was thrown acroes the Twee in not much more than at mey monthe. although it contains three times the amount of material and workmanahip. The Queen, aluer viewing the vieduct. was plesied to veatify her vense of the eminent acientifie akill of the engineer. Mr. Siephenmon, by offering bim thmugh Bir George lirey, ithe honour of knighthood. Mr. Stepheazon, oo doube, fuily appreciated ti.e honnur so gracefully tendered hy ropalty to ecience, but gratefully and rewpecifully dechned is

The leasth of the vialuct is 2,160 feet, and ite greatens height $1: 26$ leet 6 inchen to top of parapet. It conniate of 26 arrhea, each of 61 feet 6 inchen span. The remainder conaince of a makive embankment of 700,000 pard of earthwork, deneribing a curre towardi' Tweedmarath, and being at some places from oixty to eigbty feet high. The matarial of the riaduct is stone. with brick in ecment in the inner part of the arches. In the whole seructure there are 1.950,000 cuhic feet of masonry. and 2.500 .000 brieks. At bigh water the Trued is bere iwenty-three feet deep. The fnuadations were of a retr expenaire and diffiedt character. In the execution of the coffor-dans, Namy th' patent meart pile-engine wan used, with an engine of fifty-boree power for pumpiag whter out of the dame. rilea bave been extensively used, the ground principally being loona and and grivel. No lem than two years were spent in driving the pileo and lariog the ander matoory. The contractor at one time employed 2,000 mea in the varione departmente of bis con'ract. The entire cont of the viaduct. anoounting to about 200,0001., bat been borte by the York, Newensile, and Berwick Ralway Company.-Mr. John Dobson, the archstect of the central itation at Newcatile, aino opered by the Queen, forwarded to her Majeaty, at Castle Howard. a hook of five drawiogs, illus. trative of that building —T The aise of the new railway bridge over the Wge, nayo the Hereford Thimes, will be a whor dinunce below the old ooe, and the sapte material will be iron, the piers of iron tube filted up with concrete. The first objects that attract the notios at present are the great and novel works constracted for rinking in the rives the cuat-iron pera, the foondation of which is upon the wolid rock at the bottom of the Wye. The piere on the hand aide are 6 leet in diamecer, and those in the water a feet. They are bolved together in meetionn sad will he filled wish concrete. On the inp of these iron-cased piers will be placod the roadway for carrying the trains of the Bouth Walea Railway over the river to Gloucetur: but whether is will be by a tube, or by a partī̀ sunpended ruedium, the apectator has no means of mecriaining. The greatent diesealiy in this new codalruction at Chepolow appears to be frocm the water pouring to teat isco the iron priers that it requiren a lapge steam-engine tor purp it up.-A prospecten of the Briwn Ferry (Neabl) Docke scbeme han been issued by the promoten, from whieb it uppeare that the wotal sum required to make the dock: and wherfa, aceording fio Mr. Branel's emtirnce in 45,000 . of which 10,000 . are to be furnisted by the Vate of Neach Rail. way Company, learing 35,000 . to be ruised by the partiea locally interented in the apeculation. The tile of Nesth Rajway worke are, it is anid to now prowecuted witb renewed rignor. In abort time ten miles will be Mody fir the layiog of the permanent way. Mp. G. Hennect, of Brietol, has takeo the contract for makiag the bridges orer the Nienth canal and Neath river; aleo for thrs erection of the viadues near Cadonton It is ie con-
and Foreat of Dean tramroed to convert their line into a locomotive one.- Papers, it is ala, have heen lodged to file an injunction to prevent the Dover Company from opeoing the Athford and Hastinga liae, on the ground that the line as constructed does not agree with the parliamentary erction. On the other baod, an ajuaction hat been ubluined, probibiting the company from paying any more dividend until aaid line shall bave been opened. The company are therefore in a true American "fix." Government in reported to have made the long. expected grant of 100,000 , to the Waterford and Limerick for constructing the line to Waterford.-An iron bridge on the Erie Reilway broke down on the 31at Joly last, under the weight of a train with 113 oxen and wais sheep end pigs. Several men were killed, and many of the cattle were horribly gored and massacted. Had the train been one of pansengers a acene of dreadful slaugbler must have eosued. There is something wonderful in the narrow excapes made by human beingo in the atill frequeat falls of raidway workt. It is not many daye aince an equally narrow exrape of hundreds occurred at the Bricklayersi Arme station. Iron-work weems to be all going to slicke. Pity it would not, in many inclascen, fall back into stones and hrickn. A commituee of dukes, lords, $\mathbf{~ L . Y \text { ., profes- }}$ sional men, and athers hare taken io hand the realization of a nacional monument to the late Gearge Siephennon, -Mr. George Carr Glyo M.P. treaturer, and the secretary to the Insutution of Mechanical Engineeers at Bir mingham, honorary recretary. The coramittee base their unqueationable bopen of auceess on Mr. Stephenson's exertions "in condection with the introduction of the safety lamp," as well as on (and. indeed, in precedence 10) bis "elaboration of the locomotive." But, codsidering the all-sufficiency of hia renown as the elaborstor, or, as we loag since equivalently desig. nated bim, the maturer of the locomotive, it is pert ape a pity that many who bave conscientions doubte of hia priority of elaim to the inven tion of the safely-lamp sbould have their deaire to honour the locomotive maturer inter fered with by a moot question on a point of certainly, in this case, secondary, though in itnolf still gremt and decided merit and importance. The ouccess as well as the grandeur and simplicity of the ides of monumeas to the creative genius of the iron horse may thus be marred.

## RE-ASSESSMENT OF ST. LUKE'S, CHELSEA.

It is periectly trae, as stated in gour paper of Late week, that the resolution of the bsard of cuop. diant for valaing the pariob by a paid non-reaident uurveyor, "as carried by a majority of one only (belog. I anderstand, nine to offht) ; it is aloo true that the eestry, called and crammed as it was by "discoatence." passed a resolation againat ruet eppointruent by a lagga majority ( 117 to 27 ); bat what weight or consideration is to be attached to eitber the large minority in the one case or to the large musjority in the other! I thiak none.
It should be known that the opponenta to the measure both at the board of guardions and $*$ the vestry, ire men baving considerable property under compornd maresment (and, as it is believed to be) below ita proper raloe. Tbese, with othen, baring property which they dare not, evidently, sabject to the impartial hand of a profemional man, to be dealt wich as the lew directe sod as the case demand, noturally frel deep interest in opposing such an afraagomeot, well knowiag that be would show no favore to any one, bar do fall jastice to all. Notbing of the wort, li is very eany to limesine, can be done. if the guardinas, or an is proposed a commintee of the relry. are to bave the re-amesting; and this too, not by risiting and inopecting the property, which is the only right course to be parased, bat by sitting in a room two or three timen a week, and then going over the ruto-books uader the procicace of ascer thining what boase is and what house in not correctly manem: can jacuce under sucb circumrancen be doue? Ecbo. I thiak, will sanwer " impoarible." Juatice, I am conrinced, can only be done by exoploying, an the graedinas parpose doing. parochis. formardet to the Poor In Boand from the bino rity of the rity of the gaardians and frown tbe majority of the Not. I cruse, bave any infloence with the Poor Lea Commimioners ; they, and they alooe, have now to docide the matter, sad setion with right jadgment. eoon 1 boge to boar that the mandate has been
parish, .ohich no anprejudiced mad, I am sure, Ifll deny vill be for the parisb beoffit.
It is abanard mbat expediente coen mometimen hare recourse to to obtaia their own eode. In the present case the doctrine laid down by the compounders and tbeir triende lis, that noDe bat persons auct an themvelrea are competent to revise the amensment; that two or tbree yean will be required to do it in : that the cont of it eill be 3,0001 . or $4,000 \mathrm{~d}$; and next, thet the appeals will be endlese, and coneequeotly the expences to the parisb endles. Is in nnpectemery to ceil wot is mey perbape wo be unvecmenry oinfors che ropeparere of Chelven and the rate. to puyen of a parises, who all winh have peir pariakes re-me eredality of wone to appontion or the credality of chom th whon it is addreped. Jant bis revere il the case. Competent men can be foand who will do the work in eight
montti or less for the sum of $525 l$., and lbe pariab montise or lese for the sumo of $525 l$." and be parish larrobsed troan enc.

Ratepayer of Chelsea.
ST. JAMES'S CHL'RCH, HOLLOWAY.
Somz worka are going on here which would drive atanch scelesiologist mad, and certainly can be anythiag but satisfactory even to Shous who ausch lean imporuace to forms and sprabolimm, but seek suraply for propriety. fit ness, aod beauty. On looking into the building the other day we at Grat thought we bad got iato buge warebouse, but ultirately docormined it was in progress for a concert-room. Two tiers of enormoun galleriey, beating any of thoer we know of the worst daye of churchboilding, are being put up; the organ is ahore the altar, and there is to be a gallery above the organ. We should have expected better thiage, from the large nad intelligent popula. tion of Holloway. To reproduce in otone, too such mouldings as those which adorn the clansic entrance front in a sad waste of money. The contomplated outhy in about 3,000 .

## 300 ks .

Ploughing by Steam. By Lord Willovahay De Eressy. Ridgway, Piecadilly.
We do boliere that an era of agrieultural development, at vait and wouderful at that which the preeent age bas already witnessed in manu. fecturea, is not only within the bounds of possibility, but on the eve of adrent, -that : cime is at hand when our present primitive anncultural implementi will the pat away as cariosities benide the dietaff and the apioning wheel, -and that the alleged discovery by Daguerre of a mode of rearing three-year plante in three months, - the reported power of come of our market-gurdeners to rear a talad (like a muthroom) in a single night,-the alleged power of the Japanowe to dwarf the lofty pine jnto a miainture tree, a few inchea ouly In beight,-the traditional story of the monke of Glatonbury Aibey, who could make the hawthom bloom ai Christrnas, -or even the triek of the Indian Jugglers, who appear to cause a mango seed to spring ap out of the soit in conrse of a few hours, and before the eyou of bundreds, unfolding leares and flowern and fruit,-are all bat, at the worst, vaticinary imaginingt, or rudimental typifying ideas, of actual pavers of nalure, scarcely less monder ful, and yet to be dereloped; just as was the old traditional iden of the magnetic telegraph of separated friends, with ite needles and alphabeta, but without any record of ifs in visible connecting rire, -alone wanting to reduce it all to credibility

Believing, at all events, as we decidedly do that a great era of agricultural development is at hand, when eren the steam-plough, as it at present exists, may be a rude implernent, it is interesting, in sucb belief, to witneas just auct beginoinge of this anticipated era, a were the firnt nteam-engineá, or the firat upionigg and weaving machnen, in manufartureor the locomotiro with legs, like a borme, in the rilway syatem. The nteam-plough may, even yet, be just auch an implement, with relation to agriculture; but cettainly, whatever be the upshot, or whatever be the merits of this par tictalar invention, agriculturista are deeply indebted to Lord Willoughby d'Erenby, lor his continued endeavoura to elevate their powition and improve the means of their peculiar mans. factures.
Trostremeplough described and itrartralad

