THE STAR And North Carolina Gazette, PUBLISHED, WEEKLY, BY

LAWRENCE & LEMAY. TERMS.

essenterion, three sollars per annum-one said to allowed to remain an arrears longer has one year, and persons resident without this State, who may desire to become subscribers. will be atrictly required to pay the whole a mount of the year's subscription in advance, aveatist 16.77*, not exceeding fifteen lines serted three times for one dollar, and twen ty-five cents for each continuance, reas to the Editors must be post-paid.

Notice.

By virtue of a deed of trust exeguted by Mer-Dilliard to Henry M. Miller, in favor of ael L. Lathrop and his wife Caroline M ahrop, I will sell on the 28th September, so the real and personal estate thereby veyed as shall be necessary to satisfy the all balance due under the trust. The present te consists of negroes, horses and stock of

By the Executor of H. M. Miller, August 20, 1833

Notice to Bridge Builders. The undersigned Commissioners will attend at se of contractors. The repairs to be ande will be designated on the day of letting.

A. ROGERS. C. WHITAKER. D. L. BARRINGER. Augut 27, 1833



First rate Bacon for

b Register, Star, Constitutionalist, &c. in hegister, star, Constitutionalis, &c. &c. — I money is very requisite to sustain the lives of spirits of the Printer, it is hoped that every se for whose particular notice this advertise-ent is inserted, will begin immediately to look his receipts, and trave his money in readiness, order that there may be no delay, and that meeting may be mutually agreeable.
WILLIAM H; WILLIAMS.

AE'S Map of North Carolina, Farmer's Re. judice or sectional partiality.

ster, Reprint of Blackwood, Metropolitan, GENERAL DESCRIPTION. ad Foreign Quarterly Review, besides a numeals. During his absence, all letters addressed in the care of Messrs. Gales & Son, for him, II, if post paid, be promptly attended to. W. H. W.

Proposal

TO ENLARGE AND IMPROVE THE OXFORD EXAMINER.

t to a liberal ar while the proposition, with the hope that that pubsettlings, washes, slides, derangment of
sufficient evidence of the public approbation be
ter than that attending the occasional
anifested by the 10th day of November next,
renewal of decayed timbers.

The profile of the South Carolina
public, and in one or two instances of
the public approbation be
ter than that attending the occasional
have frequently attained a speed of 40
untion established by the levels of the
profile of the South Carolina
publics, and in one or two instances of
the profile of the south Carolina
the profi limited patronage enjoyed by the establish-would not austain him in the undertaking, With these feelings, and for these reauild up and sustain amongst themselves a pe-

est some might suppose that, should the ef-to obtain increased support fail to be secomed, it is the Editor's intention to abandon sent publication, it may be necessary to years prior to this period. that he has no such intention. ttached to those friends who have stood a "through good and through evil report, keep her steady, and breeze sufficient to

his useless for the Editor to enter into a deaccount of the course he intends to pursue the invites attention to his past conduct, as the strength of premises on which to found a correct judgest. He will only remark, that, in Politics, as retofre, he will be independent and just, he ill device the energies of his mind to the adventment of correct forces the strength of th ment of correct principles, and scora the g strings of a partizan—when he supports will be for their measures, for their inor-tegrity, political honesty and ability to the public, and not on account of their parconexion, or the magic of a name. The Ediis known to be warmly attached to the prines of the Republican Party, as set forth by
retolutions of '98, and explained and enforcf Mulison's Report of '99—he adheres to
i dostrines because he believes the set of dustrines because he believes them to be true doctrines of the CONSTITUTION, best estendated to preserve that instrustar it came from the hands of its framers
to perpetuate the "UNION of the States" specificate the "UNION of the States" she basis on which it was placed by our famination of the states and not because they were promulgated afferson, Madison, Henry and Mason. But excreive of his editorial discretion, he nember, nor never will refuse the free and unsatisfied use of his columns to those who with him in opinion. He emphatically a free paper, only restricted by those rules have necessary to avoid vice and licentious—and to prevent the appearance of any thing and to prevent the appearance of any thing and to prevent the appearance of any thing sted to wound the sensibility of the most a gentleman, or pain the feelings of the sente moralist. In short, it is the Editor's in the worst of times to be an honest

be the Editor's constant exertion to a paper as valuable as possible—A consequence of the News of the day, an assount larkets, and all articles of interest or ce, will be given weekly; and he will knerry & Miscellaneous selections with attention—and he hopes to issue a weeklation which will meet with general apolice.

ot will remain at \$2 50, it n 90 days, if not \$5.

BLANKS For sale at this Office.

ereated a new era in the history of me- creased expense of this section. social condition of the country.

of which, we can but imperfectly ap miles in length, and several courses of Pile Construction .- In this construcpreciate.

culiarly tavor the economical construc-

with a sketch, of the most prominent carriage of freight.

of a Rail Road through a well timbered country like that through which this plicated in its construction, and more the work. pensive system of embankments which culties which attend the use of an Ensettlings, washes, slides, derangment of

the profile of the South Carolina inites, and in one or two instances of the first No. of the 5th Vo- Rail Road, embracing, generally, a re- more than 50 miles per hour. These c, in a style which will be creditable to the markably uniform surface of country, Engines will carry 30 tons of freight, mortised and drawbored on to the munity, and valuable to those who do now, may be compared to that of a continu- besides passengers, with ease 15 miles piles. would have restrained the Editor from ed bridge, sometimes resting on the an hour, at a cost of about 20 dollars

of Charleston to Hamburg, is 135 miles on four wheels, has twice run from that he had no other resources to resort to, in length; and the rails were laid in Charleston, a distance of 72 miles, to r such an accumulated load of ex- continued line complete, about the 1st Midway and back, in the day, a disof June, 26 months from the period tance of 144 miles, placing it, therewhen the whole line was located and fore, beyond a doubt, that the travel put under contract. A few miles of from Augusta to Charleston can be efshould the ef- the road, near Charleston, were made, fected in 10 and 12 hours. and in use with Hand Cars, about two

> press Swamp, Four Hole River, Indian the road. Fields, Poke Swamp and Cattle Creek. DETAILS OF CONSTRUCTION. The road continues its course on the Horse Creek.

> At this point, which is only 21 miles Truss work. south of Edgefield Court House, the Sleeper Plan No. 1 .- The Sleeper road attains its highest altitude of 510 plan No. 1, which is a very cheap con feet above the level at Charleston, and struction, answers well on a good clay 360 feet above the Augusta bridge, 15 or gravel foundation. In this construcmiles distant. One hundred and eightion, the rails, 6 by 10, are supported ty feet of this descent to the valley of on transverse sills, 10 by 12, laid six the Savannah, is conquered at this point and a half feet apart: these sills are by an Inclined Plane, \$800 feet long. of which is 1 in 13.

> From the foot of the Plane the re mainder of the descent is overcome in is obtained to cover the transverse sills of 18 feet in a mile.

> At Hamburg two spacious depositobrick, with zinc roofs, on a commodi vation, draining and filling is not in ous lot of six acres, gratuitously bestowed on the Company by Henry this road. Shultz, Esq.

> There is only one bridge of importance on the whole route, that crossing an admirable structure, preferable to

stream of 66 feet. The road is a single track except at of the supports, remain the same. The

On the cost and plan of construction which work on the same crank, of a dinal sill, which is firmly bedded to bankment, may be used. This last approximate estimate:

of the South Carolina Rail Road, combout 25 horse power each, now erected nearly its full depth in the ground.

plan we have frequently had occasion 135 miles of road, including all expenses pared with other roads, showing the at the head of the Inclined Plane, and These longitudinal sills are put three to adopt in the 7th residency. Four of preliminary surveys, of advantages which the South possesses nearly in readiness for operation, will feet from the centre of the road each posts, 8 by 10, making something the over the North in establishing this system of improvement. By A. A. Dexistance cars over the Plane of under the rails. The size never was the top by a can 10 by 12 are marked and presidence lend at the rails.

to manifest itell: and a lively agita- ry, owing to the badness of the founda- cay, ation of steam as a motive power, has materials was one great cause of the in-

great as 1 in 150, or 35 feet in a mile, whole road.

ish Wanted in Exchange. so much general interest, and particular be Subscriber has left Haleigh on a collect larly as relating to a work which is the three of which contracted to be deliver, on tirely governed by the descent, under the western and Northern counties of North tablisment of these enterprises.

In Exchange to Exchange for CASH, the last blow of the sufficient of these enterprises.

In Exchange to Exchange for CASH, the last blow of discription of the South Carolina Rail and at the same time comply with their piling machines were 35 feet in height mity of top surface, and lessening late-Road, with a general detail of the cost mail and passenger arrangements, and on large wooden rollers, with moveable ral friction on the wheel of the lucomoand plan of construction-following the public convenience in the constant cars of disconnecting the ram block, at tive. The use of iron of this descrip-

draw our conclusions, in which we hope ing to the instructions of H. Allen, at the last blow, the pile was allowed increased cost of using iron I of an inch Rateigh, August 20, 1833

P. S. The Subscriber in also Agent for M. to be, unbiased by any feelings of pre- Esq. Chief Engineer of this road — to stok two inches. As the success of thick, with a flange of 5.8 of an inch in-They are supported upon eight wheels, the road in a great measure depended thickness, would not exceed 200 dollars by which means the weight is diffused, We will preface our description with and a more powerful Engine is obtainthe remark, that in the establishment ed with the same stress upon the road.

This Engine, however, is more comroad passes, there can be no doubt of liable to derangement than a four the judicious economy of the general wheeled Engine, and therefore at preplan of pile construction, which has sent less generally approved-but it is was introduced, by means of tongs-

mpting the proposed improvement, without earth, but generally elevated above the per day, including all expenses of fuel, appeal to the generosity and public spirit of soil about five or six feet.

people, but a thorough conviction that the soil about five or six feet. The Road extending from the city gine. The Phoenix, a light Engine

> If the Engines which have so long disappointed us, should arrive in the The road crosses the Edisto river, a- course of this month, the whole road bout 400 yards below the junction of can be in use by the fifteenth day of the North and South fork, 65 miles September. The 15 miles from Hamthat distance, six difficult streams, and is ironed, and used with Hand Cars .depressions, the Saw Mill Creek, Cy- The mail is now carried 105 miles on

There are four different plans of con-

dividing ridge between the Edisto and struction made use of on this road, the the branches of the Savannah, passing adoption of which was determined by nine miles to the north of Barnwell the character of the soil and the height village, until it reaches the head of the of the line of grade:-these are, the valley of Wises Creek, a branch of Big Sleeper plan No. 1 the Sleeper plan No. 2-the Pile construction, and the

ten feet long, of good lightwood or up the excavations and bermes, and preparing the side drains, enough earth our road on this plan has been built by ies are in course of construction of contract, for \$1450 per mile-the exca cluded. We have about 5 miles of

Sleeper Plan No. 2 .- This plan likewise is used in excavation, and forms the size of the rail and distance apart visable. the Inclined Plane, where there is one caps, into which the rails are let a piles, well driven, supporting a large mile of double road, and at the turn depth of 3 inches, and secured by bottom sill, 12 by 12, which may be outs and depositories, about three miles wedges, as before, are 6 by nine, and embanked on the top, or a foundation more.

over the North in establishing this system of the passage of the loaded trains way, which bring them nearly on a line, shape of an inverted w. connected at the passage of the loaded trains way, which bring them nearly on a line, shape of an inverted w. connected at the origineer department, general and the top by a cap 10 by 12, are mortised perintenties, general the top by a cap 10 by 12, are mortised perintenties, general and purchases, nearly on a line, shape of an inverted w. connected at the top by a cap 10 by 12, are mortised perintenties, general and purchases, general and purchases, nearly of the top by a cap 10 by 12, are mortised perintenties, general and the top by a cap 10 by 12. The grows we all complete, at 5,700 dollars. tem of improvement. By A A. Dex- and passenger cars over the Plane at under the rails. The size never was the top by a cap 10 by 12, are mortised to the rail of about ten miles an hour.

The fine at under the rails. The size never was the top by a cap 10 by 12, are mortised to the rail of the bottom still 12 by 12. The lara-901,500 dollars.

The 7th Residency, embracing the ly well hewed in the upper and lower trusses or bents may be put 12 or 13 Of this sum, we will say, for the repository in Charleston and land pursuits and the calls of the rail. To the Friends of Internal Improve- the Inclined Plane to Hamburg, was It is better to jog the caps into the sills, should be 12 by 12. Ten feet apart ber, and increased value, much the most difficult and expensive by a gain in the latter, and use a wedge with rails 9 by 12, is a convenient dis-In many sections of the South, the pass of the road—a more costly plan of in preference to the trenail, as the pin tance. The cost of this construction, For the inclined plane with double road, spirit of Internal Improvement appears construction being frequently necessa hole admits water and engenders de the solidity and strength of which has truss work, and 25,000 yards of en

The average cost of work on this construction, is about the same with that length, the height of which is from 18. chanical science; promising in the no | The profile of the South Carolina of piting on the same grade—from 1800 to 25 feet. There is altogether about velty and vast utility of its results, to Rail Road is remarkably favorable, as to 2200 dollars per mile. There are 5 miles of the Truss Construction. effect a great change in the physical and the entire length of inclination, as about 18 miles built on this plan in the

Regers's Bridge, on Saturday, the 7th September, the 7th September, and the amount of Sity millions of the Straight lines, with the exception of the 7th Residency, are general consideration is, that timber will last bridge across Neuse river, where they invite the yet behold the infancy of a system, the ly uncommonly long, and the curves longer horizontally placed than verti-

from 6 to 13 miles. The first 65 miles tion the posts are generally of light Believing as we do, that the South from Charleston varies in length but 1 wood or of the heart of the pine tree possesses local advantages, which pe- mile from a uniformly straight line. | round-with the butt.end in the earth, The road is now ironed a distance of and from 10 to 15 inches in diameter. tion of Rail Roads, and render the sys 100 miles from Charleston, to which The posts are in no case allowed to be mie, by the wholeste or tem eminently applicable to herself, we point the Steam Engines have frequent less than 4 feet in the ground of feet retail. Apply to the Edi- presume that no apology will be deem- ly passed. All the iron would have apart transversely, by 61 feet longitued requisite in offering to the public a been on, and the road in complete op dinally. Where the ground is soft the cash Wanted in Exchange.

ed requisite in offering to the public a been on, and the road in complete op dinally. Where the ground is soft the few practical remarks, on a subject of the locust, and burning undergrowth, piles are sometimes driven to a depth iron can be laid on the road and spiked the locust, and burning undergrowth, piles are sometimes driven to a depth iron can be laid on the road and spiked Twenty turn outs with water stations, revolving platforms, to 500 dollars The Subscriber has left Holeigh on a collect. larly an relating to a work which is the three of which contracted to be delivered entirely governed by the descent, under an inch thick, thaving a rectangular tour through the greater part of the Western, great pioneer of the South, in the es ed in Charleston by the 1st of March a given weight, at the last blow of the flange on one side to project down on the last blow of the flange on one side to project down on the last blow of the flange on one side to project down on the last blow of the flange on one side to project down on the last blow of the flange on one side to project down on the last blow of the flange on one side to project down on the last blow of the flange on one side to project down on the last blow of the flange on one side to project down on the last blow of the flange on one side to project down on the last blow of the flange on one side to project down on the last blow of the flange on the last blow of the last bl

different heights; secured by buits and tion was strongly recommended by the Northern Roads, and after instituting Two of the Engines now in use are nuts to the uprights. Under a hammer chief engineer, but was not adopted a comparison of the plans and cost, built on an entirely novel plan, accord of 900 lbs. with a clear fall of 20 feet from considerations of economy. The General view of some of the Northern testers, under the pay of the company, compelled by their presence the faith ful running of the engines. ful execution of this important part of

Holes were generally dug about 34 been adopted in preference to the ex- to be hoped that the few practical diffi- a kind of double spade, made for the

have frequently attained a speed of 40 nation established by the levels of the The profile of the South Carolina wiles, and in one or two instances of Engineer, are connected transversely by caps 9 feet long, 6 by 9. These

The rails, 6 by 10, and never less than three stretches or 198 feet in length, are let into the caps S inches and secured by wedges, driven on the inside of the rail in each cap. About I of an inch is taken off the inner sides of the rails by a chamfer 4 inches deep, to a line, on which the edges of the iron plates are laid precisely 5 feet apart across the road, in the clear. Great care is necessary that the top surface of the rail be perfectly smooth and uni form, so as to afford the iron a solid bearing.

The confidence which the projectors and advocates of the Pile Construction has no reason to expect)—It is his intention from Charleston, after passing over, in burg to the foot of the Inclined Plane, felt in predicting the economy and stamand to the ship while there is ballast enough that distance, six difficult streams, and is ironed, and used with Hand Cars.— bility of the plan, is entirely justified bility of the plan, is entirely justified by the result. So far, the settling of the road even in parts which have been in use four years, is confined to a few few additional supports, remedies the evil. Not the slightest yield is obserdriving was properly attended to.

The cost of our Pile Construction has been from 1900 to 3000 dollars per tors was perhaps 14 cents per yard. mile, averaging about 2300 dollars, the furnished to the contractors by the com lars for each complete.

We have some Pile Construction 15 671 degrees with the horizon. feet in height-strengthened by outside About one fifth part of the whole line an inch in thickness. braces, supported against short piles is constructed in excavation. having 3 grades of ascent, the steepest heart pine, well hewed. In trimming driven about 8 feet from the road on each side of the main track.

> the whole length of the rail. Most of 4 by 5 scantling between each pair of maintaining solidity of foundation. posts, is sufficient. Above 10 feet, two | There is about 500,000 cubic yards braces between each pair of posts plac- of excavation and about 20,000 cubic ed somewhat in the shape of a letter yards of embankment in the whole line. X, are introduced.

Truss Construction. - Where the bot- have been extra, over the cost of the prethe Edisto River, which is 400 feet the other in being less liable to settling tom is bad and the work over 12 feet sent road, as the sleeper construction, long, has a single arch over the main and lateral derangement. In this case, in height the Truss Construction is ad-

A foundation must first be made of

given great satisfaction, is very variation of the important subject of an important subject of an important subject of an important subject of the work. The tion and the height of the work. The proved system of inter-communication of this road cost nearly built, but the lower sills are 12 by 12 foundation; the price of materials, and is daily becoming more general. The 1000 dollars per mile, while that of the materials and the height of the work. It varies from the road, 6,000 dollars each. success which has attended the establishment of Rail Ways, with the application of the road will not average 300 hewed on all sides and the ends lap
formula and the ends lapformula and the ends la

The Iron - Pas iron plates used on portation of the same 13,500 dollars, 116,350 this road are 2} inches wide, 4 inch Rapidly as this plan of improvement is but 1 5-8 miles, the occasional shape advanced in public favor, in the sends not exceeding 1 in 200 or 25 feet ing this plan of construction is the 1a-secored to the rank of the heads of which fall into a long, the heads of which f Spikes cost about 9 cents per lb. or 90 Expense of pitching 70 miles of road

dollars to the mile. 17 tons of iron at 45 dollars, 1000) Ibs. of spikes at 9 cents, Transportation from Charleston along the line, on an average, including steam boat freight of 20 miles to Augusta, 100

which it curves easily at each end, is top-54 inches at the bottom, and 34 placed at every 7 miles along the road. inches deep. purpose. In hard soil this previous Here is the well and wood station sup | The rails are supported on Stone track in a curve of 772 feet radius.

At each end of the turn out about 20 feet of the rail way is detached and made to run at pleasure on vertical hinges, from the general track into the tirely dispensed with.

The transportation may hereafter require intervening turn outs between those already established, but by this may be entirely obviated.

Turn outs are built complete at 50 cents per lineal foot-iron work not included.

A revolving platform is generally placed in the centre of the turn out, by which means a loaded car can be taken in a few minutes off the main track or a rectangular road, into the depository.

EXCAVATION. The greater part of the excavation on the South Carolina Rail Road has been shallow-the deepest cut not exceeding 25 feet. In proportion to the depth the excavation has been expensive-the points .- and then the introduction of a soil, though a loose sand on the top, generally changed, at from one to two feet in depth, to a very solid red and yellow vable in any part of the road where the clay. Most of this excavation was done by contract, at 10 cents per cubic yard, although the actual cost to the contrac-

The section of the cutting is 16 feet bracing being extra. The piling ma wide on the bottom, with slopes forming for a double track—a single track is chines, with blocks and gearing, are an angle of 45 degrees with the horizon, now laid, the length a little less than pany, at an expense of about 100 dol- cutting under 10 feet, the slopes will ly from the former in construction.

excavation, there is room left each side the earth, resting on a well packed No bracing is requisite where the of the road, which occupies but 9 feet, gravel foundation, and rammed round height is under 7 feet, if the soil be for lateral drains, which are important with the same material. The other 7 10 miles, having an average inclination entirely, and afford a solid bearing to firm. From 7 to 10 feet, one brace of auxiliaries in carrying off the water and miles of the road on embankment, are

The entire road could not have been One mile of single bracing, average embanked, in the general plan of the height, costs about 150 dollars: of Northern roads, short of 400,000 dollars plan No. 2, used in excavations, and which is necessary where the embankments are made, costs nearly as much per mile as the average pile construc-

Two stationary Steam Engines, end by a two inch trenail, to a longitu- firmly imbedded in a solid sand em- of the cost; but the following will be an

chased with view to tuture use of

bankment and excavation, and half a 20,000 10,000

on this plan, almost half a mile in length, the height of which is from 18 and machinery on hand, 20,500 and machinery on head, Surveying, superintendence, 5,000 53,000

department, &c., fron and spikes 132,830 dollars-trans-Expense of workshops in Charlesto

2,600 fields, 1,000

16,000

with tar and surpentine.

Extra expenditure in making a more substituted road than contemplated in the original plan, by trusa work in high grades and had loundations. Bracing and other extra work, Damage sustained by Avalanche side hill near Hamburg, Desiring and filling, in excavations,

6,000 11,000

Wood construction of 134 miles, and other expenses at 3,057 8, 100 miles, 409,640

\$904,499

showing the immense expense tended their construction. CAMDEN AND AMBOY HAIL BOAD This read, across New Jersey, is the on the stability of the piles, competent per mile, while it would be of incalcu- thoroughfare of travel between the cilable benefit in promoting the success- ties of New York and Philadelphia. The length of the Road is 61 miles, Turn outs or passing places - A and the profile of the country highly turn out or passing place, about 600 favourable. The Road is built with a feet in length, the centre of which is 30 Double Track-The Rail of solid Iron feet deep into the soil before the pile feet distant from the main track, into 16 feet long-21 inches wide on the

prevails at the North. Besides the in- gine, so well adapted to powerful trans- digging is a great saving in expense, plying the engine with fuel and water. Blocks; but to prevent the effects of The Editor of the "Oxford Examiner" has crease in the first cost, the expense of portation, in this and other roads, and by allowing the pile to be intro

We seldom have to dig more than 15 concussion and derangement of surface, which may be built on a similar plan, duced with nearly its full size at the set of the superior skill and the supe Rails and the stone supports. The total cost of this road was estimated at 1,120,322, or 18,366 dollars per mileexclusive of Engines, Cars, Wharves, Depositories, &c., which would aweil to amount to 1,300,000 or 21,311 sideling; and the old plan of switches. Company have lately advertised for a loan of 800,000, which, if expended on the Road in addition to the estimate. will make the cost 2,100,000, or 34,400 dollars per mile. In this road, as is the means the necessity of a double road custom in all the Northern Roads, the Stone Blocks which support the rails are bedded in broken stone, in order to secure the foundations against frosts. The interest on 34,400 dollars (the cost of a mile.) at 7 per cent. is 2 408, dollars, amply sufficient to build a mile of the wood construction of the South-Carolina Rail Road. The Camden and Amboy Rail Road is probably the most perfectly constructed road in the world or Locomotive use, reflecting great credit on the Engineer, R.S. Stevens, Esq of New York, famed for the improvements which he has introduced in

Steam Navigation on the Hudson. The Stock of the Company is quoted at 153 to 160.

NEW-CASTLE AND FRENCH-TOWN RAIL ROAD,

This road across the Isthmus of Delaware, is the great highway of trade between Baltimore and Philadelphia.

The road formation is wide enoug Where the soil is very solid, and the 16 miles. This Road differs materialstand very well at as great an angle as The rails are of Georgia pitch pine, 6 671 degrees with the horizon. by 6, supporting an iron plate of 5 8 of

For nine miles the Road is support-In the 16 leet on the bottom of the ed in granite blocks-set 3 feet into bailt entirely of wood.

The rails are supported in white oak caps, 72 feet long, 8 by 10, under the ends of which are longitudinal sleepers of hemlock 4 by 10, bedded in gravel.

This plan of construction is not in awing to the danger of settlings in the embankments, is far less likely to prove permanent. This single track mile as the average pile construc-ESTIMATE OF THE COST.

We have no correct data before us which to base an accuste statement