

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY GOVERNOR LYNDO TIPPETT Secretary

May 16, 2006

MEMORANDUM TO:	Mr. Jon G. Nance, PE
	Division Five Engineer

FROM:

Philip S. Harris, III, P.E., Unit Head File Natural Environment Unit Project Development and Environmental Analysis Branch

SUBJECT:

Wake County, Northern Wake Expressway (I-540) from US 1 to US 64; T.I.P. Number R-2000 AC; Federal Aid Project No. NHF-123-1(11); State Project 8.U401711

Attached is the U. S. Army Corps of Engineers 404 Individual Permit and the special conditions for the 401 Water Quality Certification for the above referenced project. All environmental permits have been received for the construction of this project.

PSH/gyb

Attachment

Mr. Majed Alghandour, P. E., Programming and TIP
Mr. Jay Bennett, P.E., Roadway Design
Dr. David Chang, P.E., Hydraulics
Mr. Randy Garris, P.E. State Contract Officer
Mr. Art McMillan, P.E., Highway Design
Mr. Greg Perfetti, P.E., Structure Design
Mr. Mark Staley, Roadside Environmental
Mr. John F. Sullivan, FHWA
Mr. Eric Midkiff, P.E., PDEA Central Region Unit Head
Mr. Chris Murray, Division Environmental Officer

Telephone: 919-733-3141 FAX: 919-715-1501

PROJECT COMMITMENTS

Northern Wake Expressway (I-540) from US 1 to US 64 Wake County State Project No. 8.U401711 Federal Aid Project No. NHF-123-1(11) TIP No.: R-2000AC

In addition to the standard Individual Section 404 and 401 Permit Conditions, State Consistency Conditions, NCDOT's Guidelines for Best Management Practices for Protection of Surface Waters, the following special commitments have been agreed to by NCDOT:

Commitments Developed through Permit Modifications

No new special permit conditions are stated in the attached permits. All standard permit conditions apply to this project and all other conditions written into previous Section 404 permits, Water Quality Certifications and Neuse River Riparian Buffer Certifications for this project still apply.

Green Sheet May 15, 2006 Page 1 of 1



DEPARTMENT OF THE ARMY WILMINGTON DISTRICT, CORPS OF ENGINEERS PO BOX 1890 WILMINGTON NC 28402-1890

May 9, 2006



Regulatory Division

Action ID. 200021863



Gregory J. Thorpe, Ph.D. Environmental Management Director, PDEA N.C. Department of Transportation 1548 Mail Service Center Raleigh, North Carolina 27699-1548

Dear Dr. Thorpe:

Reference the permit that the Department of the Army issued on October 10, 1996, for the discharge of dredged and fill material in waters of the United States, including wetlands, to facilitate construction of the Northern Wake Expressway (T.I.P. No. R-2000), Sections A, CA, CB, D, E, F and G, crossing Kit Creek, Lower Bartons Creek, Perry Creek, the Neuse River, Beaverdam Creek, unnamed tributaries, and adjacent wetlands, generally northwest and northeast of Raleigh, in Wake and Durham Counties, North Carolina (Action ID. 199601917). Reference also two earlier modifications to that permit and supplemental information provided on March 22, 2006, for additional permit modification for two changes of impacts to waters, from a discovered discrepancy between the permit drawings and actual site slopes, and additional required riprap bank stabilization, in Section AC. The revisions result in 53 linear feet of additional permanent stream impacts. NCDOT proposes to mitigate for the additional permanent stream losses through the North Carolina Ecosystem Enhancement Program (EEP).

We have reviewed the proposed modifications, and determined that they are minor, and that an additional public notice will not be necessary. Therefore, the permit is hereby modified to include the work as shown on the enclosed revised drawings, subject to the following additional special condition:

Compensatory mitigation for the additional unavoidable loss of 33 linear feet of stream associated with the proposed project, associated with the March 22, 2006 modification request, shall be provided by the Ecosystem Enhancement Program (EEP), as outlined in the letter dated March 22, 2006 from William D. Gilmore, P.E., EEP Director. Pursuant to the EEP Memorandum of Agreement (MOA) between the State of North Carolina and the U.S. Army Corps of Engineers signed on July 22, 2003, the EEP will provide 66 linear feet of restoration equivalent warm water stream channel in the Neuse River basin (Hydrologic Cataloging Unit 030202012) by one year of the date of this permit. The

NCDOT shall, within 30 days of the issue date of this permit, certify that sufficient funds have been provided to EEP to complete the required mitigation, pursuant to Paragraph V. of the MOA.

It is understood that all other conditions of the original permit remain applicable and that the expiration date (December 31, 2007) is unchanged.

If you have questions, please contact Eric Alsmeyer of the Raleigh Regulatory Field Office, at (919) 876-8441, extension 23.

Sincerely,

Q. Benneth Jel

John E. Pulliam, Jr. Colonel, U.S. Army District Engineer

Enclosures

Copies Furnished (with enclosures):

Mr. Jon Nance Division Engineer N.C. Department of Transportation 2612 North Duke Street Durham, North Carolina 27704

Mr. Chris Murray Division Environmental Officer N.C. Department of Transportation 2612 North Duke Street Durham, North Carolina 27704 Copy Furnished (without enclosures):

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> Mr. John Hennessey Water Quality Section Division of Environmental Management N.C. Department of Environment and Natural Resources Post Office Box 29535 Raleigh, North Carolina 27626-0535

OF WATER OUPLITY	RECEIVED	Willia North Carolina Department of Environme Alar	chael F. Easley, Governor am G. Ross Jr., Secretary nt and Natural Resources n W. Klimek, P.E. Director Division of Water Quality I. Sullins, Deputy Director Division of Water Quality
	DIVISION OF HIGHWAYS PDEA-OFFICE OF NATURAL ENVIRONMENT	April 24, 2006	RECEIVED
Dr. Gregory J. Thorpe Planning and Environ North Carolina Depart 1548 Mail Service Cen	nental Branch ment of Transportation	RECEIVED	MAY & 2005 PHISTON SE SEST
Raleigh, North Carolin Dear Dr. Thorpe:		DIVISION OF HIGHWAYS PDEA-OFFICE OF NATURAL ENVIRONMENT	DEVELOPING ANALIS

Re: Modification of 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act, Proposed to Individual Permit in Wake County (TIP R-2000 AA, AB, AC). DWQ Project No. 030918 ver.3

Attached hereto is a copy of the Modification of Certification No. 3439 issued to The North Carolina Department of Transportation dated October 7, 2003. All the authorized activities and conditions of the certification associated with the Water Quality Certification dated October 7, 2003 and all subsequent modifications still apply except where superceded by this certification.

If we can be of further assistance, do not hesitate to contact us.

inderely Alan W. Klime Director

Attachments

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cc: Wilmington District US Army Corps of Engineers Mr. Eric Alsmeyer, Corps of Engineers Raleigh Field Office Mr. Christopher Militscher, US Environmental Protection Agency – Region IV Mr. William Gilmore, P.E. Transition Manager, NC DENR Ecosystem Enhancement Program Mr. Jon G. Nance, P.E. Division 5 Engineer, 2612 N. Duke St., Durham NC 27704 Mr. Chris Murray, Division 5 Environmental Officer, 2612 N. Duke St., Durham NC 27704 Ms. Rachelle Beauregard, ONE, Parker-Lincoln Bldg., 2728-168 Capital Blvd., Raleigh NC 27604 NC DWQ Raleigh Regional Office Central Files File Copy





APPROVAL OF 401 Water Quality Certification and ADDITIONAL CONDITIONS and Neuse River Buffer Rules

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Quality (DWQ) Regulations in 15 NCAC 2H, Section .0500, and 15 NCAC 2B .0233. This certification authorizes the NCDOT for the following new impacts:

Section	Ponds (acres)	Stream Impacts (linear feet)	Stream Impacts Requiring Mitigation (linear feet)	On-Site Natural Channel Design (linear feet)	Mitigation Required
Section AC Impacts for this modification (ver. 3)	0	20 (at Site 3) 33 (at Site 4)	53	0	53
Total new impacts for this modification	0	53	53	0	53

New Surface Water Impacts for the Neuse River Basins in this version

New Neuse Riparian Buffer Impacts for this modification (Ver. 3) in Section AC

Site	Zone 1 Impact (sq ft)	<i>minus</i> Wetlands in Zone 1 (sq ft)	= Zone 1 Buffers (not wetlands) (sq ft)	Zone 1 Buffer Mitigation Required (using 3:1 ratio)		Zone 2 Impact (sq ft)	<i>minus</i> Wetlands in Zone 2 (sq ft)	= Zone 2 Buffers (not wetlands) (sq ft)	Zone 2 Buffer Mitigation Required (using 1.5:1 ratio)
4	1,939	N/A	1,939	5,817		1,280	N/A	1,280	1,920
Totals	1,939	0	1,939	5,817	. .	1,280	0	1,280	1,920

Total new Buffer Impact for this modification: 3,919 square feet.

The project shall be constructed pursuant to the modification received on March 24, 2006 for the I-540 interstate (Northern Wake Freeway) in Wake County. All the authorized activities and conditions of the certification associated with the Water Quality Certification dated October 7, 2003 and all subsequent modifications still apply except where superceded by this certification.

The application provides adequate assurance that the discharge of fill material into the waters of the Neuse and Cape Fear River Basins in conjunction with the proposed development will not result in a violation of applicable Water Quality Standards and discharge guidelines. Therefore, the State of North Carolina certifies that this activity will not violate the applicable portions of Sections 301, 302, 303, 306, 307 of PL 92-500 and PL 95-217 if conducted in accordance with the application and conditions hereinafter set forth.

This approval is only valid for the purpose and design that you submitted in your application, as described in the Public Notice. Should your project change, you are required to notify the DWQ and submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter, and is thereby responsible for complying with all the conditions. If additional wetland impacts, or stream impacts, for this project (now or in the future) exceed one acre or 150 linear feet, respectively, additional compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). For this approval to remain valid, you are required to comply with all the conditions listed below. In addition, you should obtain all other federal, state or local permits



before proceeding with your project including (but not limited to) Sediment and Erosion control, Coastal Stormwater, Non-discharge and Water Supply watershed regulations. This Certification shall expire three years from the date of the cover letter from DWQ or on the same day as the expiration date of the corresponding Corps of Engineers Permit, whichever is sooner.

Condition(s) of Certification:

- 1. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to assure compliance with the appropriate water quality standards.
 - a.) The erosion and sediment control measures for the project must be designed, installed, operated, and maintained in accordance with the most recent version of the North Carolina Sediment and Erosion Control Planning and Design Manual. The design, installation, operation, and maintenance of the sediment and erosion control measures must be such that they equal, or exceed, the requirements specified in the most recent version of the North Carolina Sediment and Erosion Control Manual. The devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) projects, including contractor-owned or leased borrow pits associated with the project.
 - b.) For borrow pit sites, the erosion and sediment control measures must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Surface Mining Manual*. The design, installation, operation, and maintenance of the sediment and erosion control measures must be such that they equal, or exceed, the requirements specified in the most recent version of the *North Carolina Sediment and Erosion Control Manual*. The reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act.
 - 2. All sediment and erosion control measures shall not be placed in wetlands or waters to the maximum extent practicable. If placement of sediment and erosion control devices in wetlands and waters is unavoidable, they shall be removed and the natural grade restored after the Division of Land Resources has released the project;
 - 3. If an environmental document is required, this Certification is not valid until a FONSI or ROD is issued by the State Clearinghouse. All water quality-related conditions of the FONSI or ROD shall become conditions of this Certification:
 - 4. There shall be no excavation from or waste disposal into jurisdictional wetlands or waters associated with this permit without appropriate modification of this permit. Should waste or borrow sites be located in wetlands or stream, compensatory mitigation will be required since it is a direct impact from road construction activities.
 - 5. No live or fresh concrete shall come into contact with waters of the state until the concrete has hardened.
 - 6. All channel relocations will be constructed in a dry work area, and stabilized before stream flows are diverted. Channel relocations will be completed and stabilized prior to diverting water into the new channel. Whenever possible, channel relocations shall be allowed to stabilize for an entire growing season. Vegetation used for bank stabilization shall be limited to native woody species, and should include establishment of a 30 foot wide wooded and an adjacent 20 foot wide vegetated buffer on both sides of the relocated channel to the maximum extent practical. A transitional phase incorporating coir fiber and seedling establishment is allowable. Also, rip-rap may be allowed if it is necessary to maintain the physical integrity of the stream, but the applicant must provide written justification and any calculations used to determine the extent of rip-rap coverage requested.



- 7. Upon completion of the project, the NCDOT shall complete and return the "Certification of Completion Form" to notify DWQ when all work included in the 401 Certification has been completed. The responsible party shall complete the attached form and return it to the Transportation Permitting Unit of the Division of Water Quality upon completion of the project.
- 8. Placement of culverts and other structures in waters, streams, and wetlands must be placed below the elevation of the streambed by one foot for all culverts with a diameter greater than 48 inches, and 20 percent of the culvert diameter for culverts having a diameter less than 48 inches, to allow low flow passage of water and aquatic life. Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in dis-equilibrium of wetlands or stream beds or banks, adjacent to or upstream and down stream of the above structures. The applicant is required to provide evidence that the equilibrium shall be maintained if requested in writing by DWQ.
- 9. All stormwater runoff shall be directed to sheetflow through stream buffers at nonerosive velocities, unless approved otherwise by this certification.
- 10. During the construction of the project, no staging of equipment of any kind is permitted in waters of the U.S., or protected riparian buffers.
- 11. All fill slopes located in jurisdictional wetlands shall be placed at slopes no flatter than 3:1.
- 12. Riparian vegetation must be reestablished within the construction limits of the project by the end of the growing season following completion of construction.
- 13. Any riprap used must not interfere with thalweg performance and aquatic life passage during low flow conditions.
- 14. Heavy equipment must be operated from the banks rather than in the stream channel in order to minimize sedimentation and reduce the likelihood of introducing other pollutants into the stream.
- 15. All mechanized equipment operated near surface waters must be regularly inspected and maintained to prevent contamination of stream waters from fuels, lubricants, hydraulic fluids, or other toxic materials.
- 16. The presence of equipment in the channels must be minimized. Under no circumstances must rock, sand or other materials be dredged from the wetted stream channel under authorization of this permit, except in the immediate vicinity of the culverts.
- 17. Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited.
- 18. We understand that you have chosen to perform compensatory mitigation for new impacts to 53 linear feet of streams, 1,939 square feet of Zone 1 Neuse Buffer, and 1,280 square feet of Zone 2 Neuse Buffer, through the North Carolina Ecosystem Enhancement Program (NCEEP). We also understand that the EEP has agreed to implement the mitigation for the project, as per the Mitigation Acceptance Letter dated March 22, 2006.

Violations of any condition herein set forth may result in revocation of this Certification and may result in criminal and/or civil penalties. This Certification shall become null and void unless the above conditions are made conditions of the Federal 404 and/or Coastal Area Management Act Permit. This Certification shall expire upon the expiration of the 404 or CAMA permit.



If this Certification is unacceptable to you have the right to an adjudicatory hearing upon written request within sixty (60) days following receipt of this Certification. This request must be in the form of a written petition conforming to Chapter 150B of the North Carolina General Statutes and filed with the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, N.C. 27699. If modifications are made to an original Certification, you have the right to an adjudicatory hearing on the modifications upon written request within sixty (60) days following receipt of the Certification. Unless such demands are made, this Certification shall be final and binding.

This the 24th day of April 2006

DIVISION OF WATER QUALITY Alan W. Klimek, P.E Director

WQC No. 3439



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DWQ Project No.:	County:
Applicant:	
Project Name:	
Date of Issuance of 401 Water Quality Certification:	
Certificate of Completion Upon completion of all work approved within the 401 Wate any subsequent modifications, the applicant is required to re Unit, North Carolina Division of Water Quality, 1650 Mail may be returned to DWQ by the applicant, the applicant's an necessary to send certificates from all of these.	turn this certificate to the 401 Transportation Permitting Service Center, Raleigh, NC, 27699-1650. This form
Applicant's Certification I,, hereby state was used in the observation of the construction such that the compliance and intent of the 401 Water Quality Certification specifications, and other supporting materials.	construction was observed to be built within substantial
Signature:	Date:
Agent's Certification I,, hereby star was used in the observation of the construction such that the compliance and intent of the 401 Water Quality Certification specifications, and other supporting materials.	te that, to the best of my abilities, due care and diligence construction was observed to be built within substantial n and Buffer Rules, the approved plans and
Signature:	Date:
Engineer's Certification Partial Final	y registered Professional Engineer in the State of North yeekly, full time) the construction of the project, for the are and diligence was used in the observation of the uilt within substantial compliance and intent of the 401
Signature	Registration No
Date	







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DIVISION OF HIGHWAYS WAKE COUNTY PROJECT: 8.U401711 (R-2000AC) 1-540 (NORTH WAKE EXPRESSWAY) FROM 0.9 KM SOUTHWEST OF 1-40 TO0.7 KM
PROJECT: 8. JAOTTATI (R. 2000AC) 1-540 (NORTH WAKE EXPRESSWAY) FROM 0.9 KM SOUTHWEST OF 1-40 TOO.7 KM
N.C. DEPT. OF HIGHWAYS DIVISION OF HIGHWAYS WAKE COUNTY PROJECT: 8. JA01711 (R.2000AC) 1-540 (NORTH WAKE EXPRESSWAY) FROM 0.9 KM SOUTHWEST OF 1-40 TO0.7 KM
N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS WAKE COUNTY PROJECT: 8.U401711 (R-200AC) 1-540 (NORTH WAKE EXPRESSWAY) FROM 0.9 KM SOUTHWEST OF 1-40 TO0.7 KM
N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS WAKE COUNTY PROJECT: 8.U401711 (R-2000AC) 1-540 (NORTH WAKE EXPRESSWAY) FROM 0.9 KM SOUTHWEST OF 1-40 TO0.7 KM
N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS WAKE COUNTY PROJECT: 8. UA01711 (R. 2000AC) 1-540 (NORTH WAKE EXPRESSWAY) FROM 0.9 KM SOUTHWEST OF 1-40 TOO.7 KM
N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS WAKE COUNTY PROJECT: 8.U401711 (R-200AC) 1-540 (NORTH WAKE EXPRESSWAY) FROM 0.9 KM SOUTHWEST OF 1-40 TOD.7 KM
N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS WAKE COUNTY PROJET: 8.U401711 (R-200AC) 1-540 (NORTH WAKE EXPRESSWAY) FROM 0.9 KM SOUTHWEST OF 1-40 TOO.7 KM
N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS WAKE COUNTY PROJECT: 8. JAO1711 (R. 2000AC) 1-540 (NORTH WAKE EXPRESSWAY) FROM 0.9 KM SOUTHWEST OF 1-40 TOO.7 KM
271.9 143.4 415.3 8583.0 4
TOTAL: 271.9 143.4 415.3 8583.0 5530.0 14213.0 N.C. DEPT. OF TRANSPORTATION WAKE COUNTY PROJECT: N.C. DEPT. OF TRANSPORTATION WAKE COUNTY PROJECT: 940711 (R-2000AC) 1-540 (NORTH WAKE EXPRESSWAY) FROM 0.9 KM SOUTHWEST OF 140 TOO.7 KM
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2119 2719 86830
1300 CSV -70-Sia 34+75+. X 1939.0 1 100 CSV -70-Sia 34+75+. X 1339.0 1 100 CSV -70-Sia 34+75+. X 143.4 415.3 100 CSV -71.9 143.4 415.3 8583.0
1350 CSP Y-3-Sia 34+75+1. X 1350 CSP 13-0 1939.0 1
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Extend Existing 1350 CSP 1939.0 1
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NGC EXI -Y3-Sia 30+21+/- X 271.9 145.4 415.3 1073.0 Extend Existing - - - - - - 1550 CSP - - - - -
RGE EXT -Y3-Sia 30+21+i. X 271.9 143.4 415.3 1073.0 Extend
RGBC EXT /Y3-Sla 30+21+l- X 271.9 143.4 415.3 1073.0 Extend Existing Y3-Sla 34+75+l- X 1939.0 1 1350 CSP Y3-Sla 34+75+l- X 1939.0 1 1350 CSP Y3-Sla 34+75+l- X 1939.0 1 1350 CSP Y3-Sla 34+75+l- X 1 1939.0 1 1350 CSP Y3-Sla 34+75+l- X X 1 1 1350 CSP Y3-Sla 34+75+l- X X X 1 1350 CSP Y3-Sla 34+75+l- Y Y Y Y 1350 CSP Y3-Sla 34+75+l- Y Y Y Y 143.4 Y3-Sla 415.3 Y Y Y Y
ROBCEXT 'Y3-Sia 30+21+i- X 271.9 143.4 415.3 1073.0 Extend Existing .Y3-Sia 34+75+i- X 1399.0 1 1350 CSP .Y3-Sia 34+75+i- X 1399.0 1 1350 CSP .Y3-Sia 34+75+i- X 1399.0 1 1350 CSP .Y3-Sia 34+75+i- X 1 1399.0 1 1350 CSP .Y3-Sia 34+75+i- X 1 1 1399.0 1350 CSP .Y3-Sia 34+75+i- X 1 1 1 1350 CSP .Y3-Sia 34+75+i- X .Y3-Sia 34+75+i- .Y3-Sia 363.0 1350 CSP .Y3-Sia 34+75+i- .Y3-Sia 363.0 .Y3-Sia 34+75+i- .Y3-Sia 363.0
363 303 30 371 9 143,4 415 3 1073 0 Externd Existing .Y3-Sia 30+21+i. X 1939 0 1 Externd Existing .Y3-Sia 30+21+i. X 1939 0 1 1350 GSP .Y3-Sia 34+75+i. X 1939 0 1 1350 CSP .Y3-Sia 34+75+i. X 1939 0 1 1350 CSP .Y3-Sia 34+75+i. X X 1939 0 1100 CSP .Y3-Sia 34+75+i. X X 1 1350 CSP .Y3-Sia 34+75+i. X X X 1350 CSP .Y3-Sia 34+75+i. .Y3-Sia 34+75+i. X
363.0 0x3.0 .Y3. Sia 30+21+i. X 271.9 143.4 415.3 1073.0 Externed Existing .Y3. Sia 30+71+i. X 1939.0 1 1350 CSP .Y3. Sia 34+75+i. X 1939.0 1 1350 CSP .Y3. Sia 34+75+i. X 1939.0 1 143.4 415.3 3683.0 1 1
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3@3.0x3.0 RCBC EXT X: Sia 30+21+1. X 271.9 143.4 415.3 1073.0 Extend Existing 1350 CSP Y3- Sia 34+75+1. X 1989 0 1 1350 CSP 1350 CSP 133 4475+1. X 1989 0 1 1350 CSP 1350 CSP 133 4475+1. X 133 1393.0 1 1350 CSP 145 145 145 145 145 145 145 145 145 145
3@3.0x3.0 .Y3. Sia 30+21+1. X 271.9 143.4 415.3 1073.0 Extend Existing .Y3. Sia 30+21+1. X 1939.0 1 1550 CSP .Y3. Sia 34+75+1. X 1339.0 1 1550 CSP .Y3. Sia 34+75+1. X 1 1 160 CSP .Y3. Sia 34+75+1. X 1 1 1550 CSP .Y3. Sia 34+75+1. X 1 1 160 CSP .Y3. Sia 34+75+1. X 1 1 160 CSP .Y3. Sia 34+75+1. X 1 1 1750 CSP .Y3. Sia 34+75+1. X 1 1 1750 CSP .Y3. Sia 34+75+1. X 1 1 1750 CSP .Y3. Sia 34+75+1. .Y3. Sia 350.0 1
303.0x3.0 RedCEXT Y3-Sla 30-21+, X 2719 143,4 115,3 1073.0 Extend Existing Fatend Existing T350 GSP //3-Sla 34+75+/ X 1939.0 1 1350 GSP //
3@3.0x3.0 73-Sta 30-21+i. X 271.9 143.4 415.3 1073.0 Extend Existing 73-Sta 30+75+i. X 1393.0 1 1393.0 1 Extend Existing 73-Sta 30+75+i. X 139.0 1 1393.0 1 1350.05P 73-Sta 30+75+i. X 1 1 1393.0 1 1350.05P 73-Sta 30+75+i. X 1 1 1 1350.05P 73-Sta 30+75+i. X 1 1 1 1350.05P 73-Sta 30+75+i. X 1 1 1 1350.05P 1 1 1 1 1 1350.05P 73-Sta 30+75+i. X 1 1 1 1350.05P 1 1 1 1 1
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3@3.0x3.0 3@3.0x3.0 2371.9 143.4 415.3 1073.0 Relac EXT X 271.9 143.4 415.3 1073.0 Extend Existing Y3. Sla 30+21+L X 1938.0 1 1350 CSP Y3. Sla 34+75+L X 1 1 1350 CSP Y3. Sla 34+75+L X 1 1 1350 CSP Y3. Sla 34+75+L X 1 1 1350 CSP Y3.4 133.4 145.3 8683.0
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303.0x3.0 MCDC EXT. X3. Sla 30-21+J. X 2719 143.4 415.3 1073.0 Extend Existing MOL Ext.1 X 271.9 143.4 415.3 1073.0 Extend Existing M3. Sla 30+75+J. X 1939.0 1 1939.0 1 1350 CSP M3. Sla 34+75+J. X 1939.0 1 1 1 1350 CSP M3. Sla 34+75+J. X 2 1 1 1 1350 CSP M3. Sla 34+75+J. X 2 1 1 1 1350 CSP M3. Sla 34+75+J. X 2 1 1 1 1350 CSP M3. Sla 34+75+J. X 2 1 1 1 1350 CSP M3. Sla 34+75+J. X 2 1 1 1 1350 CSP M3. Sla 34+75+J. X 2 1 1 1 1350 CSP M3. Sla 34+75+J. X 2 1 1 1 1350 CSP M3. Sla 34+75+J. X 2 1 1 1
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303.0X3.0 RCBC EXT. Y3. Sla 30+21+/. X 271.9 143.4 415.3 1073.0 Extend Exating 1350.0SP 1350.
303.003.0 REBC EXT X9. Sla 30+21+i. X 271 9 143.4 415.3 1073.0 Extend Exiting Y3. Sla 30+75+i. X 1938.0 1 1350.0SP Y3. Sla 34+75+i. X 1938.0 1 1350.0SP 147.5 i 143.4 15.3 1938.0 1 1350.0SP 147.5 i 143.4 15.3 1938.0 1
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3@3.0x3.0 Y3-Sla 30+21+/. X 271.9 143.4 415.3 1073.0 RCBC EXT Y3-Sla 30+75+/. X 271.9 143.4 415.3 1073.0 Extend Existing Y3-Sla 34+75+/. X 21.9 143.4 415.3 1073.0 1350 CSP Y3-Sla 34+75+/. X 21.9 143.4 415.3 1939.0 1 1350 CSP Y3-Sla 34+75+/. X 21.9 143.4 415.3 8683.0 2
3@3.0x3.0 Y3-Sla 30+21+/- X 271.9 143.4 415.3 1073.0 RCBC EXT Y3-Sla 30+75+/- X 271.9 143.4 415.3 1073.0 Extend Existing Y3-Sla 34+75+/- X 271.9 143.4 415.3 1073.0 1350 CSP Y3-Sla 34+75+/- X 2 271.9 143.4 415.3 1939.0 1350 CSP Y3-Sla 34+75+/- X 2 2 2 143.4 415.3 8683.0
3@3.0x3.0 Y3-Sla 30+21+i. X 271.9 143.4 415.3 1073.0 RCBC EXT Y3-Sla 30+71+i. X 271.9 143.4 415.3 1073.0 Extend Existing Y3-Sla 34+75+i. X 2 2 193.0 1 1350 CSP Y3-Sla 34+75+i. X 1 193.0 1 1350 CSP Y3-Sla 34+75+i. X 1 1 1350 CSP Y3-Sla Y4+75 Y3-Sla Y4+75 Y3-Sla Y4+75 Y4-15
3@3.0x30 3@3.0x30 X3.5 Sla 30+21+/. X 271.9 H3.4 415.3 1073.0 RoBC EXT Y3. Sla 30+75+/. X 271.9 H3.4 415.3 1073.0 Extend Existing Y3. Sla 30+75+/. X 271.9 H3.4 415.3 1073.0 1350 CSP Y3. Sla 30+75+/. X 21.9 H3.4 415.3 1939.0 1350 CSP Y3. Sla 30+75+/. X 21.9 H3.4 415.3 6683.0
3@3.0x30 X3.5 Sla 30+21+/. X 2719 143.4 415.3 1073.0 RGBC EXT Y3. Sla 30+21+/. X 271.9 143.4 415.3 1073.0 Extend Existing Y3. Sla 30+75+/. X 271.9 143.4 415.3 1073.0 1550 CSP Y3. Sla 30+75+/. X 271.9 143.4 415.3 1939.0 1550 CSP Y3. Sla 30+75+/. X 271.9 143.4 415.3 6683.0
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303.0A3.0 Y3. Sta 30+21+/. X 271.9 143.4 415.3 1073.0 Retend Existing Y3. Sta 30+21+/. X 19390.0 1 Evend Existing Y3. Sta 30+71+/. X 19390.0 1 1530.05P Y3. Sta 30+75+/. X 19390.0 1 1930.01 Y3. Sta 30+75+/. X 19390.0 1 1930.05P Y3. Sta 30+75+/. X 1 1 1930.05P Y3. Sta 30+75+/. X 1 1 1930.05P Y3. Sta 30+75+/. X 1 1 1930.05P Y3. Sta 30+75+/. Y Y 1 1930.05P Y3. Sta 30+75+/. Y Y 1 <td< td=""></td<>
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X-ME (Market Market
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L-Sta 75+49+/. X 2650 1 3@3.0x.0 Y2-Sta 30+21+/. X 271.9 143.4 415.3 1073.0 RCBC EXT Y2-Sta 30+21+/. X 271.9 143.4 415.3 1073.0 RCBC EXT Y2-Sta 30+21+/. X 271.9 143.4 415.3 1073.0 Rtand Existing Y3-Sta 30+75+/. X 2 271.9 143.4 415.3 1073.0 1350 CSP Y3-Sta 34+75+/. X 2 2 1 1 1 1350 LSP Y3-Sta 34+75+/. X 2 2 1 1 1350 LSP Y3-Sta 34+75+/. X 1 1 1 1350 LSP Y3-Sta 34+75+/. X 1 1 1 1350 LSP Y3-Sta 34+75+/. Y 1 1 1 1350 LSP Y3-Sta 34+75+/. Y 1 1 1 <
L-Slar75+49+/. X 2659.0 1 3@3.0x3.0 Y3-Sta 30+21+/. X 271.9 143.4 415.3 1073.0 3@3.0x3.0 Y3-Sta 30+21+/. X 271.9 143.4 415.3 1073.0 3@3.0x3.0 Y3-Sta 30+21+/. X 271.9 143.4 415.3 1073.0 Extend Exsting Y3-Sta 30+75+/. X X 271.9 143.4 415.3 1073.0 1350.0SP Y3-Sta 30+75+/. X X 271.9 143.4 415.3 1938.0 1350.0SP Y3-Sta 30+75+/. X X 271.9 143.4 415.3 1938.0 1350.0SP Y3-Sta 30+75+/. X X 271.9 143.4 415.3 1938.0
L-Sta 75+49+1. X 2659.0 1 303.000.0 Y3. Sta 30+21+1. X 271.9 143.4 415.3 1073.0 303.000.0 Y3. Sta 30+21+1. X 271.9 143.4 415.3 1073.0 Stend Exsting Y3. Sta 30+21+1. X X 271.9 143.4 415.3 1073.0 Stend Exsting Y3. Sta 30+21+1. X X 271.9 143.4 415.3 1073.0 Stend Exsting Y3. Sta 30+21+1. X X 271.9 143.4 415.3 1073.0 Stend Exsting Y3. Sta 34+75+1. X X 143.4 415.3 1073.0 Stend Exsting Y3. Sta 34+75+1. X X 143.4 415.3 1938.0 Stend Exsting Y3. Sta 34+75+1. X Y3. Sta 34+75+1. X 1938.0 1 Stend Exsting Y3. Sta 34+75+1. X Y3. Sta 34+75+1. X 143.4 153.0 1 Stend Exsting Y3. Sta 34+75+1. X Y3.4 143.4 145.3 1
4Star 75+45H-i. X 26590 1 303.0x3.0 1Star 75+45H-i. X 2610 1 303.0x3.0 Y3. Star 30+21+i. X 2719 143.4 415.3 1073.0 Extend Existing Y3. Star 30+21+i. X 2719 143.4 415.3 1073.0 Star 55+i. X X3. Star 30+21+i. X 1939.0 1 1550 CSP Y3. Star 34+75+i. X 133.0 143.4 415.3 1073.0 1550 CSP Y3. Star 34+75+i. X X 133.0 143.4 415.3 1039.0 150 CSP Y3. Star 34+75+i. X X X3.19 143.4 415.3 1039.0
L-Sin 79+47-1. X 26590 1 3@3.0x3.0 L-Sin 79+49+1. X 26590 1 3@3.0x3.0 Y3-Sia 30+21+1. X 2719 143.4 415.3 1073.0 Betend Exting Y3-Sia 30+21+1. X 2719 143.4 415.3 1073.0 Betend Exting Y3-Sia 30+21+1. X X 271.9 143.4 415.3 1073.0 1350 CSP Y3-Sia 30+75+1. X X X X X 1939.0 1 1350 CSP Y3-Sia 30+75+1. X X X X 133.4 415.3 1073.0 1350 CSP Y3-Sia 30+75+1. X X X X X X X 1350 CSP Y3-Sia 30+75+1. X X X X X X X 1350 CSP Y3-Sia 30+75+1. X X X X X X X 1350 CSP Y3-Sia 30+75+1. X X X X X X 1350 CSP Y3-Sia 30+75+1. X X X X X 1350 CSP Y3-Sia 30+75+1. X X X X X 1350 CSP
-L-Sia 74+94+. X 2659 0 1 -L-Sia 74+94+. X 2719 143,4 415,3 1073 0 3@3 0x3 0 Y3-Sia 30+21+/. X 2719 143,4 415,3 1073 0 Extend Exiting Y3-Sia 30+21+/. X 1939 0 1 1939 0 1 1350 CSP Y3-Sia 34+75+/. X 1939 0 1 1939 0 1 1350 CSP Y3-Sia 34+75+/. X 2719 143,4 415,3 1073 0 1450 CSP Y3-Sia 34+75+/. X 1939 0 1 1 1939 0 1350 CSP Y3-Sia 34+75+/. X 143,4 415,3 868,0 2

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