NEW HOPE CHURCH

BUILDING & PARKING ADDITION

DURHAM, NORTH CAROLINA

MAJOR SITE PLAN

CASE#: D1300344

APPLICANT / OWNER:

NEW HOPE CHURCH INC.
7619 FAYETTEVILLE ST.
DURHAM, NC 27713

CONSULTANTS:

STEWART

101 WEST MAIN STREET
DURHAM, NC 27701
T 919.380.8750

FIRM LICENSE #: C-1051
www.stewartpa.com
PROJECT #: 11109

SITE DATA TABLE:

ADDRESS:	7619 & 7605 FAYETTEVILLE ROAD
PIN:	0717-02-78-4638 (CHURCH PARCEL) 0717-02-79-4253 (PARTIAL)
EXISTING SITE AREA:	35.295 AC / 1,537,445 SF (PER PB 181, PG 171 & DB 6851, PG 808-811)
ROW DEDICATION:	0.18 AC (FULL FRONTAGE OF 0717-02-76-4259)
PARCEL AREA NOT INCLUDED:	1.19 AC (PARTIAL AREA OF 071 7-02-79-4253)
PROPOSED SITE AREA:	33.93 AC
TIER:	SUBURBAN TIER
ZONING:	RR
RIVER BASIN:	CAPE FEAR
WATERSHED OVERLAY:	FU-B
CURRENT USE:	CHURCH, EDUCATIONAL FACILITY, RES'I-FAMILY
PROPOSED USE:	CHURCH, EDUCATIONAL FACILITY, STAFF RESIDENCE
BASE FLOOD ELEVATION:	276 PER FEMA MAP
LOWEST PROPOSED FFE:	307
EXISTING BUILDING SIZE:	33,696 SF
PROPOSED BUILDING ADD:	27,034 SF
TOTAL PROPOSED BLDG AREA:	60,902 SF
EXISTING ASSEMBLY AREA:	5,917 SF TOTAL AREA SEATING - 4,268 SF GENERAL ASSEMBLY AREA SEATING - 1,649 SF STUDENT MINISTRY SEATING
PROPOSED ASSEMBLY AREA: (1ST FLOOR)	6,422 SF AREA SEATING (TOTAL1ST FLOOR = 10,690 SF)
PROPOSED ASSEMBLY AREA: MEZZANINE	1,826 SF
TOTAL ASSEMBLY PROPOSED:	14,167 SF AREA SEATING
EXISTING EDUCATIONAL FACILITY -MAXIMUM ENROLLMENT	5 ED. FACILITY CLASS ROOMS 200 SF OF ADMIN AREA 70 CHILDREN, AGES 2-6
ACCESSORY STAFF RESIDENCE:	1,700 SF
REQUIRED PARKING:	1 SPACE PER 25 SF AVAILABLE SEATING IN ASSEMBLY AREAS 14,167 SF / 28 = 506 SPACES REQUIRED 5 ED. FACILITY CLASSROOMS = 30 SPACES REQUIRED 200 SF OF ADMIN AREA = 1 SPACE REQUIRED ACCESSORY STAFF RESIDENCE: 2
TOTAL SPACES REQUIRED:	539
MAXIMUM PARKING ALLOWED:	539 X 175% = 944 SPACES
EXISTING PARKING:	358 REGULAR SPACES 8 HANDICAP SPACES 366 TOTAL -8 EXISTING PARKING SPACES (TO BE REMOVED FOR PROPOSED HC SPACES) -5 EXISTING PARKING SPACES (TO BE REMOVED FOR DRIVE AISLES AND LANDSCAPE ISLANDS) 353 SPACES TOTAL (EXISTING)
PROPOSED PARKING:	283 SPACES 6 HANDICAP SPACE 289 SPACES TOTAL (PROPOSED)
TOTAL PARKING:	641 SPACES (627 REGULAR, 12 HANDICAP SPACES AND 2 VAN ACCESSIBLE SPACES)
HANDICAP PARKING REQUIRED:	2% OF TOTAL PROVIDED = 13 HANDICAP SPACES
HANDICAP PARKING PROVIDED:	14 HANDICAP SPACES TOTAL
BICYCLE PARKING REQUIRED:	5% OF TOTAL PROVIDED VEHICLE SPACES: 5% OF 641 = 32.05
EXISTING BICYCLE PARKING:	22 SPACES
PROPOSED BICYCLE SPACES:	12 SPACES
TOTAL BICYCLE SPACES:	34 TOTAL SPACES NOTE: BIKE PARKING FOR ACCESSORY STAFF RESIDENCE PROVIDED WITHIN EXISTING CAR PORT.
BUILDING SETBACKS / HEIGHTS:	MAXIMUM 25' FRONT SETBACK MINIMUM 10' SIDE SETBACK, 24' TOTAL BOTH SIDES MINIMUM 25' REAR SETBACK MAXIMUM BUILDING HEIGHT = 35'
BUILDING COVERAGE	MAXIMUM ALLOWED: 922,470 SF PROVIDED: 45,197 SF (BUILDING FOOTPRINT)
BUILDING HEIGHT	PROPOSED HEIGHT: 33' - 6 3/4"
OPEN SPACE REQUIRED	10.0% OF SITE = 153,745 SF - 3.39 AC
OPEN SPACE PROVIDED	19.64% OF SITE = 293,268 SF - 6.73 AC (FLOODPLAIN AREA FOR PIN: 0717-02-78-4536)
TREE COVERAGE REQUIRED	10.0% OF SITE = 153,745 SF - 3.39 AC
TREE COVERAGE PROVIDED	19.64% OF SITE = 293,268 SF - 6.73 AC (FLOODPLAIN AREA FOR PIN: 0717-02-78-4536)

PROJECT NOTES:

1. BOUNDARY AND TOPOGRAPHIC INFORMATION BASED ON SURVEY INFORMATION FROM STEWART.
2. THIS SITE WILL BE WITHIN THE FU-B REGULATED WATERSHED AREA.

RESOURCE ORDINANCE COMPLIANCE

1. FLOODPLAIN PROTECTION : PORTIONS OF THIS SITE ARE IN A FLOOD HAZARD ZONE AS INDICATED PER FEMA PANEL 3720071700 J (MAY 2, 2006) TOTAL AREA: 10.10 AC
2. STEEP SLOP PROTECTION: THERE ARE NO STEEP SLOPES GREATER THAN 25% AND HAVING AN AREA GREATER THAN 10,000 SF.
3. WETLANDS PROTECTION: WETLANDS ON THE SITE OCCUR IN STREAM BUFFERS.

STREAM BUFFERS:

- STREAMS: STREAM AS SHOWN ON USGS MAP AND INTERMITTENT STREAM AS SHOWN ON DURHAM COUNTY SOIL SURVEY, MAPS 34 & 35. THIS STREAM AND APPROPRIATE BUFFERS, MEASURED FROM TOP OF BANK, ARE NOTED ON THE PLANS.

IMPERVIOUS SURFACE CALCULATIONS

EXISTING IMPERVIOUS SURFACE SITE:	176,376 SF (4.05 ACRES)
EXISTING IMPERVIOUS PERCENTAGE:	11.8% OF 1,477,647 SF (33.93 ACRES)
PROPOSED IMPERVIOUS SURFACE:	146,629 SF (3.34 ACRES)
TOTAL IMPERVIOUS SURFACE:	322,007 SF (7.39 ACRES) 21.8% OF 1,477,647 SF SF (33.93 ACRES)

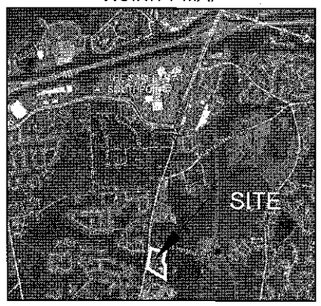
PROJECT BOUNDARY BUFFERS

ADJACENT PROPERTY DATA:			REQUIRED BUFFERS	PROVIDED BUFFERS
NORTHERN PROPERTY BOUNDARY	TIER ZONING WATERSHED OVERLAY CURRENT USE	SUBURBAN RR FU-B RESIDENTIAL / FAMILY	CN → RR 40/6 - 30' BUFFER	30' NATURAL BUFFER
SOUTHERN PROPERTY BOUNDARY	TIER ZONING WATERSHED OVERLAY CURRENT USE	SUBURBAN RR / PDR FU-B VACANT	CN → PDR 40/6 - 30' BUFFER	30' NATURAL BUFFER
WESTERN PROPERTY BOUNDARY	TIER ZONING WATERSHED OVERLAY CURRENT USE	SUBURBAN PDR FU-B RESIDENTIAL / FAMILY	ROW > 60' NO BUFFER	N/A
EASTERN PROPERTY BOUNDARY	TIER ZONING WATERSHED OVERLAY CURRENT USE	SUBURBAN RR FU-B AGRICULTURAL / LIVESTOCK	CN → RR 40/6 - 30' BUFFER	EXISTING NATURAL STREAM BUFFER

REVISIONS

FEBRUARY 18, 2014
APRIL 10, 2014
APRIL 23, 2014
MAY 14, 2014

VICINITY MAP



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GENERAL CONDITION OF APPROVAL:

1. FOR SITES CONTAINING FLOODPLAIN: ALL DEVELOPMENT WITHIN THE FLOODWAY OR NON-ENCROACHMENT AREA OR FLOODWAY FRINGE AND NON-ENCROACHMENT AREA FRINGE, INCLUDING FILL, NEW CONSTRUCTION, SUBSTANTIAL IMPROVEMENTS, MANUFACTURED HOUSING, STORAGE OF MATERIALS AND STORAGE OF TOXIC OR FLAMMABLE SUBSTANCES, IS PROHIBITED EXCEPT AS PROVIDED BY APPLICABLE FLOOD HAZARD REGULATIONS OF UDO SECTION 5.22 AND 8.4.
   FLOODPLAIN ELEVATION(S) 276
   FLOODPLAIN ZONE AE
   FEMA MAP NUMBER 3720071700 J
   FEMA MAP DATE MAY 2, 2006
2. STREAM BUFFERS: 50 FOOT WIDE UNDISTURBED STREAM BUFFER, MEASURED FROM TOP OF BANK, EACH SIDE OF STREAM. NO CLEARING OR GRADING OTHER THAN SELECTIVE THINNING AND ORDINARY MAINTENANCE OF EXISTING VEGETATION PERMITTED, EXCEPT IN ACCORDANCE WITH 15A NCAC 02B.233 (6) VEGETATION MANAGEMENT. NO STRUCTURES OR FEATURES REQUIRING GRADING OR CONSTRUCTION MAY BE BUILT WITHIN THE 10 FOOT STREAM BUFFER SETBACK. ANY USE ALLOWED BY SECTION 6.5.5 OF THE UDO SHALL BE DESIGNED AND CONSTRUCTED TO MINIMIZE THE AMOUNT OF INTRUSION INTO THE STREAM BUFFER AND TO MINIMIZE CLEARING, GRADING, EROSION AND WATER QUALITY DEGRADATION. (UDO SECTION 8.5)
3. FOR SITES CONTAINING WETLANDS: STATE AND FEDERAL PERMIT AUTHORIZATION MAY BE REQUIRED FROM THE NC DENR, NC DWQ, AND THE U.S. ARMY CORPS OF ENGINEERS PRIOR TO THE COMMENCEMENT OF ANY LAND DISTURBING ACTIVITIES IN OR NEAR A LAKE, STREAM, CREEK, TRIBUTARY, OR ANY UNNAMED BODY OF WATER AND ITS ADJACENT WETLANDS (UDO SECTION 8.9)
4. LIGHTING NOTE (UDO SEC. 7.4): MEASURES SHALL BE PROVIDED TO PREVENT LIGHT SPILLOVER ONTO ADJACENT PROPERTIES AND GLARE TOWARD MOTOR VEHICLE OPERATORS AND SHALL BE INDICATED ON THE SITE PLAN. EXTERIOR LIGHTS SHALL BE SHIELDED SO THAT THEY DO NOT CAST DIRECT LIGHT BEYOND THE PROPERTY LINE. IN ACCORDANCE WITH THESE STANDARDS:
   A. THE MAXIMUM ILLUMINATION AT THE EDGE OF THE PROPERTY LINE ADJACENT TO RESIDENTIAL ZONING IS 0.5 FOOT CANDLES.
   B. THE MAXIMUM ILLUMINATION AT THE EDGE OF THE PROPERTY LINE ADJACENT TO NONRESIDENTIAL ZONING IS 5.0 FOOT CANDLES.
   C. THE MAXIMUM ILLUMINATION AT THE EDGE OF THE PROPERTY LINE ADJACENT TO A STREET IS 5.0 FOOT CANDLES.
   D. THE LEVEL OF ILLUMINATION AS MEASURED IN FOOT CANDLES AT ANY ONE POINT SHALL MEET THE STANDARDS IN THE TABLE IN UDO SECTION 7.4 WITH MINIMUM AND MAXIMUM LEVELS MEASURED ON THE PAVEMENT WITHIN THE LIGHTED AREA.
   E. THE MAXIMUM HEIGHT FOR DIRECTIONAL OR FULL CUT-OFF LIGHTING FIXTURES (FIXTURES DESIGNED TO INSURE THAT NO LIGHT IS EMITTED ABOVE A HORIZONTAL LINE PARALLEL TO THE GROUND) SHALL BE 30 FEET ABOVE GRADE, MEASURED TO THE TOP OF THE FIXTURE.
   F. THE MAXIMUM HEIGHT FOR NON-DIRECTIONAL LIGHTING FIXTURES, WHICH ARE DEFINED AS FIXTURES DESIGNED TO ALLOW LIGHT TO BE EMITTED ABOVE A HORIZONTAL LINE PARALLEL TO THE GROUND, SHALL BE 15 FEET ABOVE GRADE, MEASURED TO THE TOP OF THE FIXTURE.
   G. THESE STANDARDS MUST BE VERIFIED BY FIELD SURVEY (BY USE OF PHOTOMETRIC SURVEY) PRIOR TO THE CERTIFICATE OF COMPLIANCE BEING ISSUED. ALL OF THIS INFORMATION, INCLUDING DETAILS, WILL BE REQUIRED ON BUILDING PLANS PRIOR TO ISSUANCE OF BUILDING PERMIT.
5. LANDSCAPING/C.O. STANDARDS NOTE: ALL LANDSCAPING MUST BE IN PLACE PRIOR TO REQUEST FOR A CERTIFICATE OF COMPLIANCE. CONTACT DURHAM CITY COUNTY PLANNING DEPARTMENT SITE COMPLIANCE STAFF FOR INSPECTION
6. LANDSCAPE RE-INSPECTION FEE: EACH LANDSCAPING COMPLIANCE INSPECTION AFTER THE INITIAL INSPECTION WILL INCUR A RE-INSPECTION FEE. PAYMENT MUST BE RECEIVED BY THE DURHAM CITY COUNTY PLANNING DEPARTMENT PRIOR TO RE-INSPECTION.
7. TREE PROTECTION NOTE (UDO SEC. 8.3): TREE PROTECTION FENCING MUST BE IN PLACE PRIOR TO ANY DEMOLITION, LAND DISTURBANCE, OR ISSUANCE OF A GRADING PERMIT AND SHALL INCLUDE WARNING SIGNS POSTED IN BOTH ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSING/TREE PROTECTION AREA/PROHIBIDO ENTRAR / ZONA PROTECTORA PARA LOS ÁRBOLES."
8. ROOT PROTECTION ZONE (UDO SEC. 8.3): EQUALS ONE FOOT OF RADIUS FOR EVERY INCH OF DIAMETER OF EXISTING TREES, OR SIX FOOT RADIUS, WHICHEVER IS GREATER, NO DISTURBANCE ALLOWED WITHIN THIS AREA. AREA MUST BE PROTECTED WITH BOTH TREE PROTECTION FENCING AND WARNING SIGNS.
9. IF MORE THAN 12,000 SQ. FT. IS DISTURBED, A LAND DISTURBING PERMIT IS REQUIRED.
10. IF MORE THAN 20,000 SQ. FT. IS DISTURBED, A SEDIMENTATION AND EROSION CONTROL PLAN MUST BE SUBMITTED AND APPROVED PRIOR TO THE ISSUANCE OF A LAND-DISTURBANCE PERMIT.
11. IF TREE PROTECTION IS REQUIRED BY THE CITY/ COUNTY PLANNING DEPARTMENT, TREE PROTECTION CERTIFICATION MUST BE SUBMITTED TO THE DURHAM COUNTY EROSION CONTROL DIVISION, AND TREE PROTECTION INSPECTION COMPLETED PRIOR TO THE ISSUANCE OF A LAND-DISTURBANCE PERMIT.
12. IF AN OFFSITE SOIL SPOIL OR BORROW SITE IS UTILIZED, THEN THE DISTURBED AREA FOR THE SPOIL/BORROW SITE MUST BE INCLUDED IN THE LAND-DISTURBANCE PLAN AND PERMIT UNLESS THE SPOIL/BORROW SITE ALREADY HAS A LAND-DISTURBANCE PERMIT.
13. THE LOCATIONS OF PROPOSED PUBLIC SIDEWALKS SHOWN ON THIS PLAN ARE SCHEMATIC. A CITY OF DURHAM AND/OR NCDOT ENCROACHMENT PERMIT IS REQUIRED PRIOR TO ANY CONSTRUCTION. AFTER OBTAINING THE REQUIRED PERMITS, PLEASE CONTACT THE CITY OF DURHAM ENGINEERING CONSTRUCTION INSPECTION OFFICE AT 560-4326 FOR A PRE-CONSTRUCTION CONFERENCE AND FIELD VISIT PRIOR TO ANY WORK ON THE PROPOSED SIDEWALK.

LANDSCAPE NOTES

1. LANDSCAPE MULCH: PINE STRAW SHALL NOT BE USED AS MULCH OR GROUNDCOVER WITHIN TEN FEET OF ANY STRUCTURES CONSISTING OF EXTERIOR COMBUSTIBLE CONSTRUCTION AS SPECIFIED BY DURHAM CITY CODE SECTION 46-67.
2. CONSTRUCTION IN PRESERVED TREE COVERAGE AREAS (UDO SECTION 8.3):
   A. PRESERVED TREE COVERAGE AREAS SHALL NOT BE USED FOR ACTIVE RECREATIONAL PURPOSES, EXCEPT FOR WALKING PATHS AND FOOT TRAILS CONSTRUCTED WITH MINIMAL DISTURBANCE OF TREE ROOTS AND EXISTING VEGETATION PROVIDED A REGISTERED ARBORIST HAS CERTIFIED THAT THE CONSTRUCTION OF THE TRAIL HAS BEEN DESIGNED TO MINIMIZE IMPACT TO THE EXISTING TREES. NO TREE OVER 10 INCHES SHALL BE REMOVED FOR THE CONSTRUCTION OF TRAILS. SITE PLAN APPROVAL IS REQUIRED FOR CONSTRUCTION OF TRAILS IN PRESERVED TREE COVERAGE AREAS.
   B. ALL BUILDINGS SHALL BE SET BACK AT LEAST 10 FEET FROM THE EDGE OF ANY PRESERVED TREE COVERAGE AREA.
   C. UTILITY LINES AND DRAINAGE CHANNELS SHALL BE MINIMIZED WITHIN THE ROOT PROTECTION ZONES OF THE TREES TO BE SAVED. PREFERABLY, SUCH FACILITIES SHOULD BE LOCATED ADJACENT TO DRIVEWAYS AND IN GROUPINGS ALLOWED BY SOUND ENGINEERING PRACTICES.
3. PROTECTION OF EXISTING VEGETATION (UDO SEC. 8.3): AT THE START OF GRADING INVOLVING THE LOWERING OF EXISTING GRADE AROUND A TREE OR STRIPPING OF TOPSOIL, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA PRIOR TO OR AT THE SAME TIME AS SILT FENCE AND OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE. NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA.

SPECIAL CONDITIONS OF APPROVAL:

PRIOR TO THE ISSUANCE OF A BUILDING PERMIT:

1. DEDICATE 20 FT. OF ADDITIONAL RIGHT-OF-WAY FOR THE FRONTAGE OF THE SITE ALONG FAYETTEVILLE ROAD NORTH OF ATKINS HEIGHT BOULEVARD. A COPY OF THE RECORDED PLAT MUST BE SUBMITTED WITH THE FIRST BUILDING PERMIT APPLICATION.
2. A COPY OF THE RECORDED SUBDIVISION PLAT MUST BE SUBMITTED WITH THE FIRST BUILDING PERMIT APPLICATION.

CONDITIONS PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY:

3. IMPLEMENTATION AND ADHERENCE TO THE MARCH 19, 2014 TRANSPORTATION MANAGEMENT PLAN (TMP) FOR THE SUNDAY PEAK HOUR. FUTURE ADJUSTMENTS TO THE TMP REQUIRE ADVANCE WRITTEN CONCURRENCE FROM THE DURHAM DEPARTMENT OF TRANSPORTATION AND NCDOT (AS APPLICABLE) PRIOR TO IMPLEMENTATION.

PUBLIC WORKS CONDITIONS OF APPROVAL:

1. AT A MINIMUM, THE STORMWATER DESIGN DETAILS FOR THIS PROJECT SHALL BE GOVERNED BY THE MINIMUM STANDARDS OF THE MOST RECENT EDITION OF THE CITY OF DURHAM (CITY) REFERENCE GUIDE FOR DEVELOPMENT (RGD) AND ANY LETTERS TO INDUSTRY (POSTED ON THE CITY'S WEBSITE) OR SUPPLEMENTAL NOTIFICATIONS OF RGD UPDATES (ALSO POSTED ON THE CITY'S WEBSITE) THAT ARE IN EFFECT THE DATE THE FIRST SUBMITTAL OF THE CONSTRUCTION DRAWINGS ARE RECEIVED FOR REVIEW BY THE CITY.
2. FINAL DESIGN CALCULATIONS FOR THE STORMWATER CONTROL MEASURE(S) (SCM(S)) WILL REQUIRE THE USE OF STORAGE INDICATION ROUTING METHODOLOGY SUCH AS TR-20 OR HEC-1 MODELS. FOR EACH SCM, AS APPLICABLE, PROVIDE STAGE-STORAGE RELATIONSHIP AND INFLOW AND OUTFLOW HYDROGRAPHS. PROVIDE ALL TABULATED DATA INCLUDING CALCULATIONS SHOWING THE OUTLET UNDER ORIFICE CONTROL, BARREL CONTROL AND WEIR CONTROL. AS APPROPRIATE, TO SHOW HOW THE ROUTING WAS DEVELOPED.
3. STORMWATER CONTROL MEASURE(S) (SCM(S)) PERMIT FEE(S), THE EXECUTED STORMWATER FACILITY AGREEMENT AND COVENANTS (PREPARED BY THE CITY OF DURHAM STORMWATER SERVICES AND EITHER A PAYMENT INTO THE STORMWATER REPLACEMENT FUND OR THE PROVISION OF AN ALTERNATE PERPETUAL MAINTENANCE SECURITY ARE REQUIRED FOR ALL SCM(S) ASSOCIATED WITH THIS DEVELOPMENT. CONSTRUCTION OF THE DEVELOPMENT IS NOT ALLOWED TO COMMENCE UNTIL THESE ITEMS ARE PROVIDED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OUTLINED IN THE STORMWATER FACILITY AGREEMENT AND COVENANTS. THE DESIGNER SHALL SUBMIT A CERTIFIED CONSTRUCTION COST ESTIMATE FOR EVERY STORMWATER SCM PROPOSED IN THE DEVELOPMENT AT THE FIRST SUBMITTAL OF THE CONSTRUCTION DRAWINGS.
4. AN AS-BUILT CERTIFICATION FOR THE STORMWATER CONTROL MEASURE(S) (SCM(S)), PROVIDED BY THE DESIGN ENGINEER, IS REQUIRED. THE AS-BUILT SHALL BE SUBMITTED IN ACCORDANCE WITH THE CITY OF DURHAM BMP CERTIFYING ENGINEER (BCE) PROGRAM (REFER TO SECTION 5.5, BMP CERTIFYING ENGINEER PROGRAM FOR STORMWATER SCMS IN THE CITY OF DURHAM, OF THE REFERENCE GUIDE FOR DEVELOPMENT) AND APPROVED BY STORMWATER SERVICES PRIOR TO ISSUANCE OF ANY CERTIFICATES OF OCCUPANCY OR CERTIFICATES OF COMPLIANCE FOR THE PROJECT.
5. A COMPLETED CITY OF DURHAM DESIGN SUMMARY IS REQUIRED FOR EACH STORMWATER CONTROL MEASURE(S) NO LATER THAN AT THE FIRST SUBMITTAL OF THE CONSTRUCTION DRAWINGS.
6. STORMWATER CONTROL MEASURE(S) (SCM(S)) DESIGN CALCULATIONS WILL NOT BE REVIEWED OR APPROVED WITH THE SITE PLAN/PRELIMINARY PLAT SUBMITTAL. ALL SCM DESIGNS WILL BE REVIEWED AND APPROVED DURING THE CONSTRUCTION DRAWING (CD) SUBMITTAL PROCESS. IF, AT THE TIME OF CD SUBMITTAL, IT IS FOUND THAT THE PROPOSED SCM(S) IS UNDERSIZED OR OTHERWISE INSUFFICIENT OR UNSUITABLE FOR THE SITE, IT IS THE RESPONSIBILITY OF THE APPLICANT TO INSURE THAT THE APPLICABLE STORMWATER ORDINANCE REQUIREMENTS ARE MET. A REVISED SITE PLAN OR PRELIMINARY PLAT MAY BE REQUIRED IF THE ORIGINALLY PROPOSED SCM(S) ARE FOUND INSUFFICIENT OR UNSUITABLE, AND ALTERNATIVE SCM(S) TO MEET THE APPLICABLE STORMWATER ORDINANCE REQUIREMENTS ARE REQUIRED.
7. FOR DEVELOPMENTS OTHER THAN SINGLE FAMILY DETACHED RESIDENTIAL DEVELOPMENTS MAKING USE OF A NUTRIENT BANK: TO RECEIVE SITE PLAN/PRELIMINARY PLAT APPROVAL FOR DEVELOPMENTS OTHER THAN SINGLE FAMILY DETACHED RESIDENTIAL DEVELOPMENTS THAT ARE MAKING USE OF NUTRIENT BANKS, THE APPROVAL OF THE SITE PLAN/PRELIMINARY PLAT IS CONTINGENT UPON THE PURCHASE OF NUTRIENT CREDITS FROM AN APPROVED NUTRIENT BANK. IF A REVISED SITE PLAN/PRELIMINARY PLAT IS SUBMITTED FOR THIS DEVELOPMENT, THE REVISED SITE PLAN/PRELIMINARY PLAT WILL BE SUBJECT TO ANY ORDINANCES IN PLACE AT THE TIME OF THE REVISED SITE PLAN/PRELIMINARY PLAT SUBMISSION. PRIOR TO THE APPROVAL OF THE SITE PLAN/PRELIMINARY PLAT, A LETTER SHOWING THE PURCHASE OF THE NUTRIENT CREDITS FOR THIS DEVELOPMENT AND A COPY OF THE NUTRIENT BANK LEDGER, SHOWING THE TOTAL NUTRIENT CREDITS AVAILABLE MINUS ANY AND ALL DEDUCTIONS, IS TO BE PROVIDED TO THE CITY OF DURHAM STORMWATER SERVICES SECTION.

JOB SITE COPY:

A COPY OF THE APPROVED SITE PLAN MUST BE ON SITE AND AVAILABLE FOR A PERIODIC INSPECTION AND USE DURING CONSTRUCTION TO EVALUATE COMPLIANCE WITH THE APPROVED SITE PLAN. REQUIRED INSPECTION WILL NOT TAKE PLACE IF THE JOBSITE COPY IS NOT AVAILABLE AND RE-INSPECTION FEES WILL BE CHARGED.

MINOR SITE PLAN CASE#: D1300344

APPROVAL STAMP

ADJACENT PROPERTY OWNERS

CALLOUT #	PARCEL ID	PIN	OWNER NAME	SITE ADDRESS	POLYGON ACREAGE	TOTAL ACREAGE	LAND USE DESCRIPTION	ZONING
1	150261	0717-02-69-6599	JEFFORDS WILLIAM C JR JEFFORDS MARGO D	7 BOBCAT CT	0.268	0.268	RES/ 1-FAMILY	PDR 2.380
2	150262	0717-02-69-7664	ROSEMOND JAMES KENNETH PIGEON JANET ANN	5 BOBCAT CT	0.312	0.312	RES/ 1-FAMILY	PDR 2.380
3	150250	0717-02-79-6793	NEW LIFE CHRISTIAN CENTER INC	7415 FAYETTEVILLE RD	33.277		CMNTY SVC/ CHURCH	RR
4	150246	0717-02-88-7207	HYER CHARLOTTE REVOCABLE TRUST HYER ROBERT C REVOCABLE TRUST	301 ATKINS HEIGHTS BLVD	63.636	63.636	PRESENT-USE/FORESTRY	RR
5	150231	0717-03-94-0605 SPL	NC DEPT OF TRNSPRTN	7864 HERNDON RD	22.503	22.503	VACANT COMMUNITY SERVICE	PDR 2.384/ RR
6	210132	0717-02-76-3629	HILLS @ SOUTHPOINT COMMUNITY ASSOCIATION INC THE	234 SOUTH BEND DR	17.170	17.170	VAC RES/ HOMEOWNERS ASSOC	PDR 2.000
7	210172	0717-02-77-3923	HILLS @ SOUTHPOINT COMMUNITY ASSOCIATION INC THE	0 SOUTH BEND DR	0.522	0.522	VAC RES/ HOMEOWNERS ASSOC	PDR 2.000
8	159382	0717-02-69-6153	POE ROBYN I POE CARL M	4 BRAVEHART CT	0.250	0.250	RES/ 1-FAMILY	PDR 2.500
9	159384	0717-02-69-7256	HUNTINGTON RIDGE HOMEOWNERS ASSOCIATION OF DURHAM INC	7520 FAYETTEVILLE RD	0.188	0.188	VAC RES/ LOT-SML TRACT	PDR 2.500
10	150260	0717-02-69-7405	BRAMSTON LLC	7516 FAYETTEVILLE RD	1.000	1.000	RES/ 1-FAMILY	PDR 2.500

GENERAL NOTES

1. THIS SURVEY MAP IS INTENDED TO REPRESENT THE EXISTING CONDITIONS/TOPOGRAPHY ON A PORTION OF THE PROPERTY OF NEWHOPE CHURCH, INC., PIN 0717-02-76-4536, AND IS NOT A BOUNDARY SURVEY. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT AND THEREFORE ALL ENCUMBRANCES UPON THE PROPERTY MAY NOT BE SHOWN.
2. THE PROPERTY LINES SHOWN HEREON HAVE BEEN CONFIRMED FROM A PARTIAL SURVEY BY STEWART ENGINEERING. PROPERTY LINES SHOWN TAKEN FROM BOOK OF MAPS 181, PAGE 171.
3. HORIZONTAL DATUM IS NAD 83 (2011) AND VERTICAL DATUM IS NAVD88, BASED ON GPS METHODS USING REAL-TIME KINEMATIC SOLUTIONS FOR THE SURVEY CONTROL POINTS SHOWN HEREON AND TIED TO NORTH CAROLINA GEODETIC SURVEY MONUMENTS "HOPSON" AND "SECTON".

"HOPSON"	"SECTON"
N 779,721.04'	N 780,488.15'
E 2,034,908.26'	E 2,041,507.09'
EL 334.40'	

4. THE INITIAL STATE PLANE POSITIONS FOR THIS SURVEY CAN BE SCALED FROM GRID TO GROUND FROM A PROJECT LOCATION OF N: 778609.41' E: 2017186.81', AN ELEVATION OF 301.08, USING A COMBINED FACTOR OF 0.99993838.
5. THIS DRAWING DOES NOT CONFORM TO N.C. GS 47-30 AND THEREFORE IS NOT FOR RECORDATION.
6. UTILITIES SHOWN HEREON ARE BASED SOLELY ON ABOVE-GROUND VISIBLE EVIDENCE. NO UTILITY DESIGNATION/MARKING SERVICES WERE PERFORMED AS A PART OF THIS SURVEY. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES BEFORE COMMENCING CONSTRUCTION.
7. TREES SHOWN HEREON MAY NOT REPRESENT ALL VEGETATION ON THE SUBJECT PROPERTY.
8. THE SUBJECT PROPERTY IS ZONED "RR" (RURAL RESIDENTIAL).
7. THE SUBJECT PROPERTY LIES IN ZONE X (AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE AND FUTURE CONDITIONS 1% ANNUAL CHANCE FLOODPLAIN) AND ZONE AE (AREA DETERMINED TO BE INSIDE THE 1% ANNUAL CHANCE FLOOD, BASE FLOOD ELEVATIONS DISTERMINED), AND FLOODWAY (DELINEATED FLOODWAY OF A STREAM), BASED ON THE FLOOD INSURANCE RATE MAP COMMUNITY MAP NUMBER 3720671700K DATED 2/2/07. FLOOD HAZARD LINES SHOWN HEREON ARE FROM NCFLOODMAPS.COM.
8. NO WETLAND OR STREAM DELINEATION WAS PART OF THIS SURVEY, THEREFORE NO STREAM BUFFERS WERE MAPPED.
9. ALL PROPERTY LINE SETBACKS SHOWN HEREON ARE PER PB 181, 171.
10. ADDRESS: 7919 FAYETTEVILLE RD.

LEGEND

- SURVEY CONTROL POINT
- EIP — EXISTING IRON PIPE
- COMPUTED POINT
- STORM DRAIN CURB INLET
- STORM DRAIN FLARED END SECTION
- LIGHT POLE
- BOLLARD
- FF=287.18' — FINISHED FLOOR ELEVATION
- DECIDUOUS TREE
- LA — LANDSCAPE AREA
- 0.2% CHANCE FLOOD LINE
- 1% CHANCE FLOOD LINE
- FW — FLOODWAY LINE
- X — WIRE FENCE
- TREELINE
- STORM DRAIN LINE
- RCP — REINFORCED CONCRETE PIPE
- CB — CATCH BASIN
- BWF — BARBWIRE FENCE
- CONCRETE SURFACE
- GRAVEL

SCALE: 1" = 200'

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Project:

NEW HOPE CHURCH

Vicinity map:

Seal:

Issued for:

SITE PLAN SUBMITTAL

No.	Date	Description
-	4/10/14	REV PER CITY COMMENTS

30 60 120 NORTH

Scale: 1" = 60'

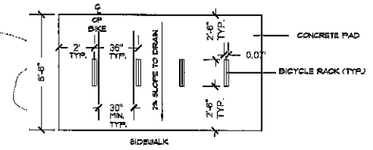
Title:

EXISTING CONDITIONS

Project number: J11139 Sheet:
Date: 11/19/2013
Drawn by: RCS
Approved by: RMV

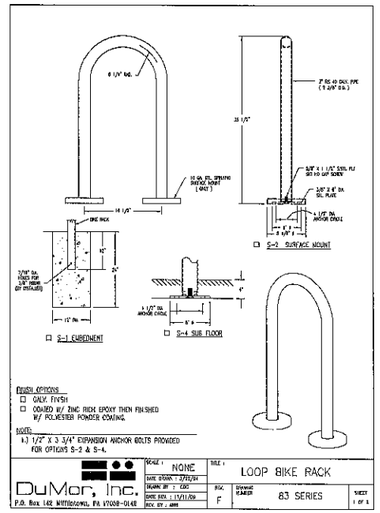
C1.00

J:\11139-New Hope Church\Drawings\Site Plan - Bldg Addition\J11139-C1.00.dwg May 14, 2014 - 12:39pm

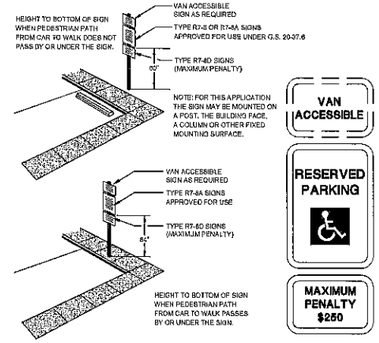


NOTE: ALL BICYCLE RACKS SHALL MEET MINIMUM STANDARDS PER U.D.O. SECTION 10.4.4

1 C3.00 BICYCLE RACK SPACING PLAN



2 C3.00 STANDARD BICYCLE RACK



NOTES:
- HEIGHTS TO BOTTOM OF R7-8 OR R7-8A RESERVED PARKING SIGNS ARE AS PRESCRIBED BY N.C. DEPT. OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, SECTION 3A-20, PART II
- HANDICAP SIGNS TO BE LOCATED AT ALL PROPOSED HC PARKING SPACES
- VAN ACCESSIBLE SIGNS ARE TO BE INSTALLED AT VAN ACCESSIBLE SPACES ONLY

1 C3.00 HANDICAP SIGNAGE DETAIL SECTION N.T.S.

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NEW HOPE CHURCH

Vicinity map:

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SITE PLAN SUBMITTAL

No.	Date	Description
1	4/10/14	REV PER CITY COMMENTS
2	4/23/2014	LABEL STAFF RESIDENCE
3	5/13/2014	ADD WALKWAY STRIPING

0 40 80 160 NORTH

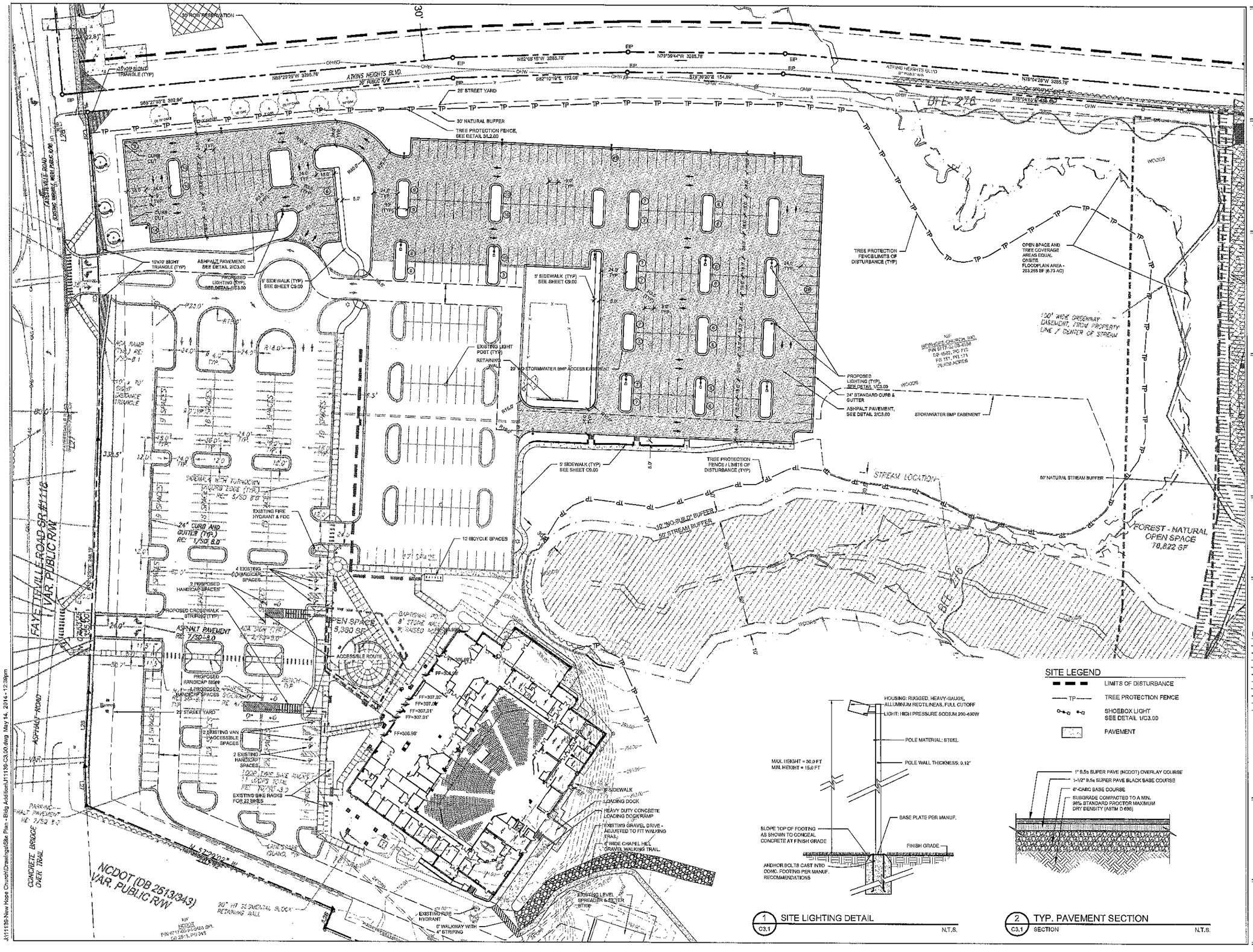
Scale: 1" = 80'

Title:

OVERALL SITE MAP

Project number: J11139 Sheet:
Date: 11/19/2013
Drawn by: RMV
Approved by: RCS
C3.00

J:\11139-New Hope Church\Drawings\Site Plan - Bldg Addition\11139-C3.00.dwg, May 14, 2014 - 12:39pm



J:\11139-New Hope Church\Drawings\Site Plan - Bldg Addition\J11139-C3.00.dwg May 14, 2014 - 12:58pm

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Client:

Project:

NEW HOPE CHURCH

Vicinity map:

Seal:

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT SEAL 263 ROBERT C. SHURBET JR. 5-14-14

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No.	Date	Description
—	4/10/14	REV PER CITY COMMENTS

0 20 40 80 NORTH

Scale: 1" = 40'

Title:

SITE PLAN

Project number: J11139 Sheet:
Date: 11/18/2013
Drawn by: RMV
Approved by: RCS

C3.01

GRADING LEGEND

- 200 — PROPOSED MAJOR ELEVATION
- PROPOSED MINOR ELEVATION
- 200 — EXISTING MAJOR ELEVATION
- EXISTING MINOR ELEVATION
- PROPOSED STORM DRAINAGE
- PROPOSED CATCH BASIN
- PROPOSED JUNCTION BOX
- PROPOSED AREA DRAIN
- 44.50 PROPOSED ELEVATION
- TC 44.50 / BC 44.00 TOP/BOTTOM OF CURB
- TW 46.00 / BW 44.00 TOP/BOTTOM OF WALL
- RIPRAP DISSIPATOR
- FLOW DIRECTION

J:\11139-New Hope Church\Drawings\Site Plan - Bldg Addition\J11139-C5.00.dwg May 14, 2014 - 12:39pm

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NEW HOPE CHURCH

Vicinity map:

Seal:

NORTH CAROLINA PROFESSIONAL ENGINEER 036418 SEAL TIMOTHY R. SUMMERVILLE

Issued for:

SITE PLAN SUBMITTAL

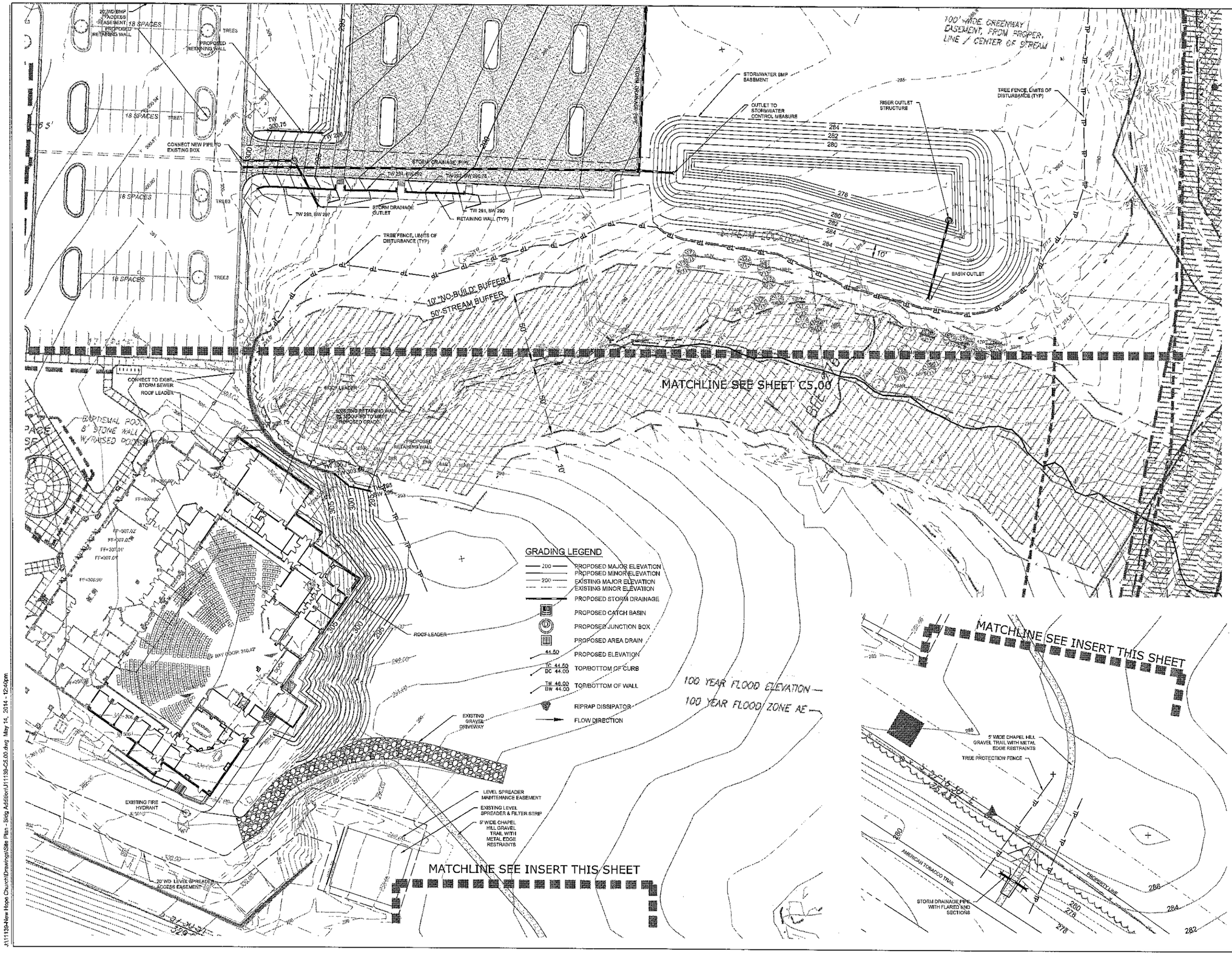
No.	Date	Description
-	4/10/14	REV PER CITY COMMENTS

Title:

GRADING & DRAINAGE PLAN

Project number: J11139 Sheet:
Date: 11/19/2013
Drawn by: HNJ
Approved by: RS

C5.00



J:\11\1139-New Hope Church\Drawings\Site Plan - Bldg Addition\J11139-C5.00.dwg May 14, 2014 - 12:49pm

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PROJECT #: ——

Client:

Project:

NEW HOPE CHURCH

Vicinity map:

Seal:

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT SEAL 0364 TIMOTHY R. SUMMERVILLE

Issued for:

SITE PLAN SUBMITTAL

No.	Date	Description
-	4/10/14	REV PER CITY COMMENTS
-		
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-		
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-		

0 10 20 40 NORTH

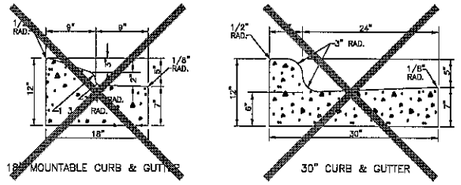
Scale: 1" = 20'

Title:

GRADING PLAN - BUILDING ADDITION

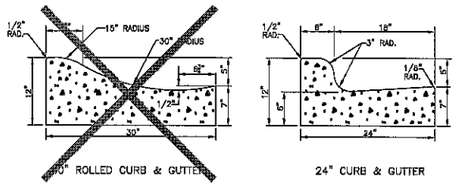
Project number: J11139
Date: 11/19/2013
Drawn by: RNJ
Approved by: TS

Sheet: C5.01



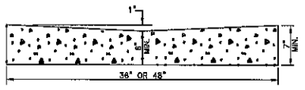
1'-6" MOUNTABLE CURB & GUTTER

30" CURB & GUTTER



30" ROLLED CURB & GUTTER

24" CURB & GUTTER

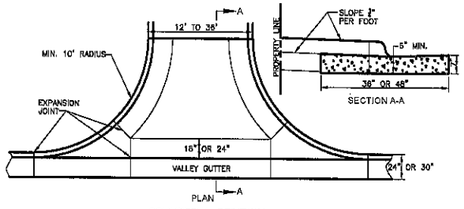


36" OR 48" VALLEY GUTTER

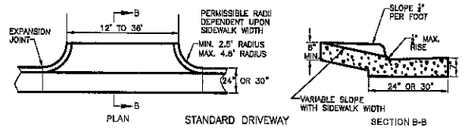
NOTES:
USE NON-REINFORCED, AIR ENTRAINED, CONCRETE WITH A MINIMUM STRENGTH OF 3000 LBS.

DURHAM 1869 CITY OF MEDICINE

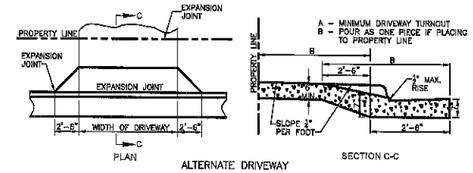
REVISION DATE: 12/07/2009	CURB AND GUTTER CITY OF DURHAM, NORTH CAROLINA DEPARTMENT OF PUBLIC WORKS	SCALE: NTS DETAIL NO. ST-8.0



COMMERCIAL DRIVEWAY



STANDARD DRIVEWAY

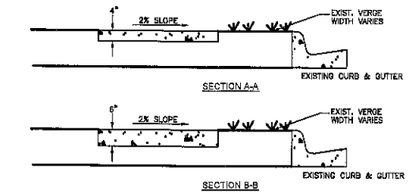


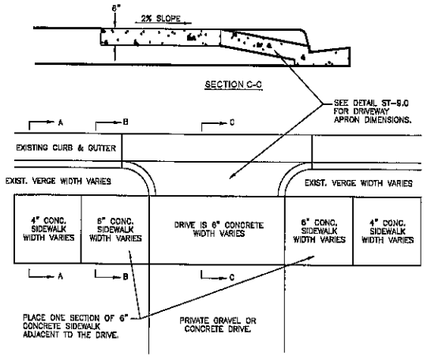
ALTERNATE DRIVEWAY

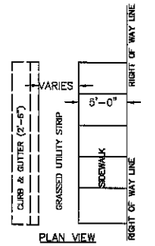
NOTES:
1. CURB AND GUTTER SECTION WILL BE POURED CONTINUOUS THROUGH THE STANDARD AND ALTERNATE DRIVEWAY WITH THE FACE OF CURB DROPPED DOWN AS SHOWN.
2. DRIVEWAY WILL BE CONSTRUCTED AFTER THE CURB FORMS HAVE BEEN REMOVED.
3. CONCRETE SHALL BE NON-REINFORCED, AIR-ENTRAINED WITH A MINIMUM STRENGTH OF 3000 LBS.

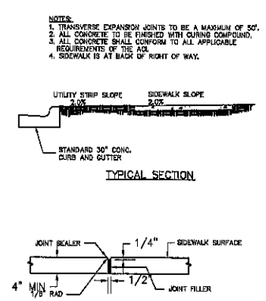
DURHAM 1869 CITY OF MEDICINE

REVISION DATE: 12/07/2009	DRIVEWAY FOR CURB AND GUTTER STREET SECTION CITY OF DURHAM, NORTH CAROLINA DEPARTMENT OF PUBLIC WORKS	SCALE: NTS DETAIL NO. ST-9.0









DURHAM 1869 CITY OF MEDICINE

REVISION DATE: 12/07/2009	SIDEWALK ACROSS DRIVEWAY APRON CITY OF DURHAM, NORTH CAROLINA DEPARTMENT OF PUBLIC WORKS	SCALE: NTS DETAIL NO. ST-10.0

SIDEWALK DETAIL	SCALE: NTS DETAIL NO. 4

1. CONSTRUCT THE RAMP SURFACE TO BE STABLE, FIRM, AND SLIP RESISTANT. CONSTRUCT THE CURB RAMP TYPE AS SHOWN IN THE PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER.

2. LOCATE CURB RAMPS AND PLACE PEDESTRIAN CROSSWALK MARKINGS AS SHOWN IN THE PAVEMENT MARKING PLANS. WHEN FIELD ADJUSTMENTS REQUIRE MOVING CURB RAMPS OR MARKINGS AS SHOWN, CONTACT THE SIGNING AND DELINEATION UNIT OR LOCATE AS DIRECTED BY THE ENGINEER.

3. COORDINATE THE CURB RAMP AND THE PEDESTRIAN CROSSWALK MARKINGS SO A 4'x4' CLEAR SPACE AT THE BASE OF THE CURB RAMP WILL FALL WITHIN THE PEDESTRIAN CROSSWALK LINES.

4. SET BACK DISTANCE FROM INSIDE CROSSWALK MARKING TO NEAREST EDGE OF TRAVEL LANE IS 4' MINIMUM.

5. REFER TO THE PAVEMENT MARKING PLANS FOR STOP BAR LOCATIONS AT SIGNALIZED INTERSECTIONS. IF A PAVEMENT MARKING PLAN IS NOT PROVIDED, CONTACT THE SIGNAL DESIGN SECTION FOR THE STOP BAR LOCATIONS OR LOCATE AS DIRECTED BY THE ENGINEER.

6. TERMINATE PARKING A MINIMUM OF 20' BACK OF A PEDESTRIAN CROSSWALK.

7. CONSTRUCT CURB RAMPS A MINIMUM OF 4' WIDE.

8. CONSTRUCT THE RUNNING SLOPE OF THE RAMP 8.33% (1':12") MAXIMUM.

9. ALLOWABLE CROSS SLOPE ON SIDEWALKS AND CURB RAMPS WILL BE 2% (1':50") MAXIMUM.

10. CONSTRUCT THE SIDE FLARE SLOPE A MAXIMUM OF 10% (1':10") MEASURED ALONG THE CURB LINE.

11. CONSTRUCT THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE BASE OF THE CURB RAMP A MAXIMUM OF 5% (1':20") AND MAINTAIN A SMOOTH TRANSITION.

12. CONSTRUCT LANDINGS FOR SIDEWALK A MINIMUM OF 4'x4' WITH A MAXIMUM SLOPE OF 2% (1':50") IN ANY DIRECTION. CONSTRUCT LANDINGS FOR MEDIAN ISLANDS A MINIMUM OF 5'x5' WITH A MAXIMUM SLOPE OF 2% (1':50") IN ANY DIRECTION.

13. TO USE A MEDIAN ISLAND AS A PEDESTRIAN REFUGE AREA, MEDIAN ISLANDS WILL BE A MINIMUM OF 6' WIDE. CONSTRUCT MEDIAN ISLANDS TO PROVIDE PASSAGE OVER OR THROUGHOUT THE ISLAND.

14. SMALL CHANNELIZATION ISLANDS THAT CAN NOT PROVIDE A 5'X5' LANDING AT THE TOP OF A RAMPS, WILL BE CUT THROUGH LEVEL WITH THE SURFACE STREET.

15. CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP. THE ADJACENT SURFACE IS PLANTING OR OTHER NON-WALKING SURFACE OR THE SIDE APPROACH IS SUBSTANTIALLY OBSTRUCTED.

16. PLACE A 1/2" EXPANSION JOINT WHERE THE CONCRETE CURB RAMP JOINS THE CURB AS SHOWN IN NCDOT ROADWAY STANDARD DRAWING 848.01

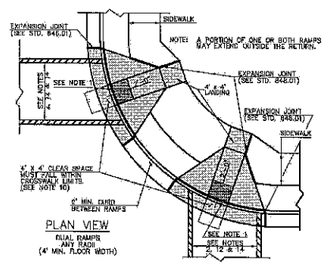
17. PLACE ALL PEDESTRIAN PUSH BUTTON ACTUATORS AND CROSSING SIGNALS AS SHOWN IN THE PLANS OR AS SHOWN IN THE MUTCD.

18. CURB RAMPS THROUGH MEDIAN ISLANDS, SINGLE RAMPS AT DUAL CROSSWALKS OR LIMITED R/W SITUATIONS, WILL BE HANDLED BY SPECIAL DETAILS.

DURHAM 1869 CITY OF MEDICINE

Adopted from NCDOT Details 848.05 and 848.06

DATE: March 1, 2012	Curb Ramp Notes CITY OF DURHAM, NORTH CAROLINA DEPARTMENT OF PUBLIC WORKS	SCALE: NONE DETAIL NO. CC-1.0

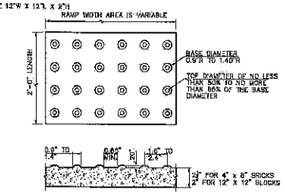


NOTES:
1. DETECTABLE WARNING DOMES WILL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
2. DETECTABLE WARNING DOMES WILL CONTRAST VISIBILITY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.
3. PORTLAND CEMENT/SAND MIX: 500 BY WEIGHT SAND. INSTALL AS DRY MIX. HAND RAMP FOR COMPACTION AND LEVEL BEFORE SETTING BRICKS.
4. BRICKS SHOULD BE BUTTED AS CLOSE TOGETHER AS ALLOWS, SWEEP PORTLAND CEMENT/SAND MIX INTO REMAINING CRACKS.
5. MINIMUM BRICK REQUIREMENTS PER RAMP ARE:

THIRTY SIX (36) BRICKS OF SIZE 4"W x 8"L x 2"H

OR

EIGHT (8) BLOCKS OF SIZE 12"W X 12"L x 2"H

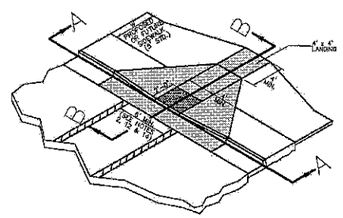


DETECTABLE WARNING DOMES

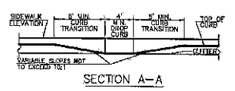
DURHAM 1869 CITY OF MEDICINE

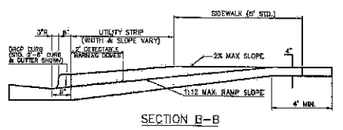
Adopted from NCDOT Detail 848.05

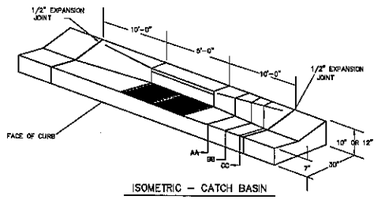
DATE: March 1, 2012	Curb Ramps with Proposed Curb & Gutter CITY OF DURHAM, NORTH CAROLINA DEPARTMENT OF PUBLIC WORKS	SCALE: NONE DETAIL NO. CC-2.0

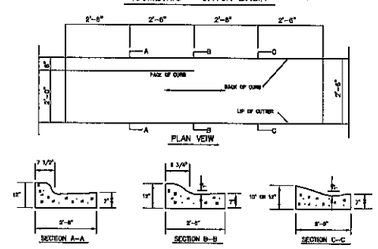


USE PAY LIMITS FOR CURB RAMP









NOTES:
1. 10' MAXIMUM BETWEEN CONSTRUCTION JOINTS.
15' MAXIMUM BETWEEN CONSTRUCTION JOINTS ON MACHINE POURS.
2. 1/2" EXPANSION JOINT EVERY 90'.
3. 3000 PSI CONCRETE MINIMUM, 4" SLUMP MAXIMUM.
4. LIQUID MEMBRANE CURING COMPOUND SHALL MEET THE REQUIREMENTS OF SECTION 1026-2 OF NCDOT STANDARDS & SPECIFICATIONS FOR ROADS AND STRUCTURES.
5. ALL CONSTRUCTION JOINTS SHALL BE FILLED WITH JOINT FILLER AND SEALER IN ACCORDANCE WITH NCDOT ROADWAY STANDARD DETAIL 846.01.
6. TRANSITION NOT TO BE LOCATED WITHIN THE CURB RADIUS.
7. CURB TRANSITIONS TO OCCUR AT ALL FIRE HYDRANTS, CATCH BASIN AND AROUND ALL INTERSECTIONS

CURB TRANSITION DETAIL	SCALE: NTS DETAIL NO. 5

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NEW HOPE CHURCH

Vicinity map:

Seal:

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No.	Date	Description
-	4/10/14	REV PER CITY COMMENTS
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Scale: NTS

Title:

DETAIL SHEET

Project number: J111139 Sheet:
Date: 11/19/2013
Drawn by: HNJ
Approved by: RS

C9.00

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LANDSCAPE NOTES

1. ALL TREES TO BE A MINIMUM OF 2" IN CALIPER AND MUST MEET THE AMERICAN STANDARD FOR NURSERY STOCK.
2. TREE PROTECTION NOTE: TREE PROTECTION FENCING MUST BE IN PLACE PRIOR TO ANY DEMOLITION, LAND DISTURBANCE OR ISSUANCE OF A GRADING PERMIT AND SHALL INCLUDE WARNING SIGNS POSTED IN BOTH ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSING/TREE PROTECTION AREA/PROHIBIDO ENTRAR / ZONA PROTECTORA PARA LOS ÁRBOLES."
3. PROTECTION OF EXISTING VEGETATION: AT THE START OF GRADING INVOLVING THE LOWERING OF EXISTING GRADE AROUND A TREE OR STRIPPING OF TOPSOIL, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA AT THE SAME TIME AS OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE. NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA.
4. ROOT ZONE PROTECTION AREA: VARIES BASED ON LOCAL JURISDICTION HAVING AUTHORITY. CONTRACTOR SHALL COMPLY WITH LOCAL JURISDICTIONAL REQUIREMENTS. NO DISTURBANCE ALLOWED WITHIN THIS AREA. AREA MUST BE PROTECTED WITH BOTH TREE PROTECTION FENCING AND WARNING SIGNS.
5. SEED BED PREPARATION: ALL AREAS TO BE SEEDED ARE TO BE RECEIVE A MINIMUM OF 2" OF APPROVED TOPSOIL. ALL DEBRIS, ROCKS, ETC. LARGER THAN .5" ARE TO BE REMOVED. ALL LARGE CONCENTRATIONS OF GRAVEL & DEBRIS REGARDLESS OF SIZE ARE TO BE REMOVED PRIOR TO SEEDING OR PLANTING.
6. ALL PLANT BED AREAS ARE TO RECEIVE A MINIMUM OF 6" OF APPROVED TOPSOIL.
7. SOIL SHOULD BE TESTED AND AMENDED WITH LIME AND FERTILIZER FOR HARDWOOD TREES ACCORDING TO NCDA PROCEDURES. SCARIFY PLANT PIT WALLS. CONSULT LANDSCAPE ARCHITECT FOR ALTERNATE COMPLIANCE.
8. SHREDDED HARDWOOD MULCH 3" DEEP EXCEPT AT CROWN OF PLANT UNLESS OTHERWISE NOTED. FLARE AT CROWN SHOULD BE REVEALED. BACKFILL CONSISTS OF THOROUGHLY BROKEN UP NATIVE SOIL. TOTAL VOLUME OF BACKFILL SHOULD BE AMENDED WITH UP TO ONE THIRD PINE BARK MULCH. PIECES SHOULD BE NO LARGER THAN WHAT PASSES THROUGH A ONE INCH SCREEN. IF ADDITIONAL SOIL IS REQUIRED FOR BACKFILL DUE TO DETRIMENTAL SUBSOIL DRAINAGE CONDITIONS, USE SOIL SIMILAR TO EXISTING NATIVE SOIL. ADDITIONAL SOIL TO BE APPROVED BY LANDSCAPE ARCHITECT. MAXIMUM SAUCER HEIGHT IS 6 INCHES.
9. TOP OF ROOTBALL TO BE RAISED 2-3 INCHES ABOVE EXISTING GRADE.
10. FOR B&B PLANTS, NATURAL FIBER BURLAP SHOULD BE TURNED DOWN BY 1/3 TOTAL HEIGHT OF ROOT BALL. PLASTIC FIBER BURLAP AND WIRE BASKETS SHOULD BE REMOVED TO 2/3'S OF TOTAL HEIGHT OF ROOT BALL.
11. CONTRACTOR IS RESPONSIBLE FOR KEEPING THE TREE UPRIGHT AND PLUMB THROUGHOUT THE WARRANTY PERIOD. IF STABILIZATION IS NECESSARY SEE STAKING DETAIL BELOW. ORANGE FLAGGING TAPE SHOULD BE ATTACHED TO SUPPORT WIRE. STAKING SHOULD BE REMOVED BY CONTRACTOR AT END OF ONE YEAR WARRANTY PERIOD OR AS DIRECTED BY GROUNDS MANAGEMENT.
12. USE STANDARD "GATOR" BAGS FOR WATERING TREES IN AREAS NOT UNDER IRRIGATION. INCORPORATE TERRA-SORB (OR EQUAL) AS PER MANUFACTURERS RECOMMENDATIONS, FOR AREAS NOT UNDER IRRIGATION.
13. USE "BIO-BARRIER" OR EQUIVALENT ACCORDING TO MANUFACTURER'S RECOMMENDATION FOR TREES THAT WILL BE PLANTED WITHIN 10' OF PAVEMENT
14. LANDSCAPING/C.O. STANDARDS NOTE: ALL LANDSCAPING MUST BE IN PLACE PRIOR TO REQUEST FOR A CERTIFICATE OF COMPLIANCE.
15. NEW TREES PLANTED IN THE SIGHT DISTANCE TRIANGLE MUST BE LIMBED UP BETWEEN 2.5' - 8'.

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Client:

Project:

NEW HOPE CHURCH

Vicinity map:

Seal:

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1463 ROBERT C. SHUNK, JR. 5-14-14

Issued for:

SITE PLAN SUBMITTAL

No.	Date	Description
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0 15 30 60 NORTH

Scale: 1" = 30'

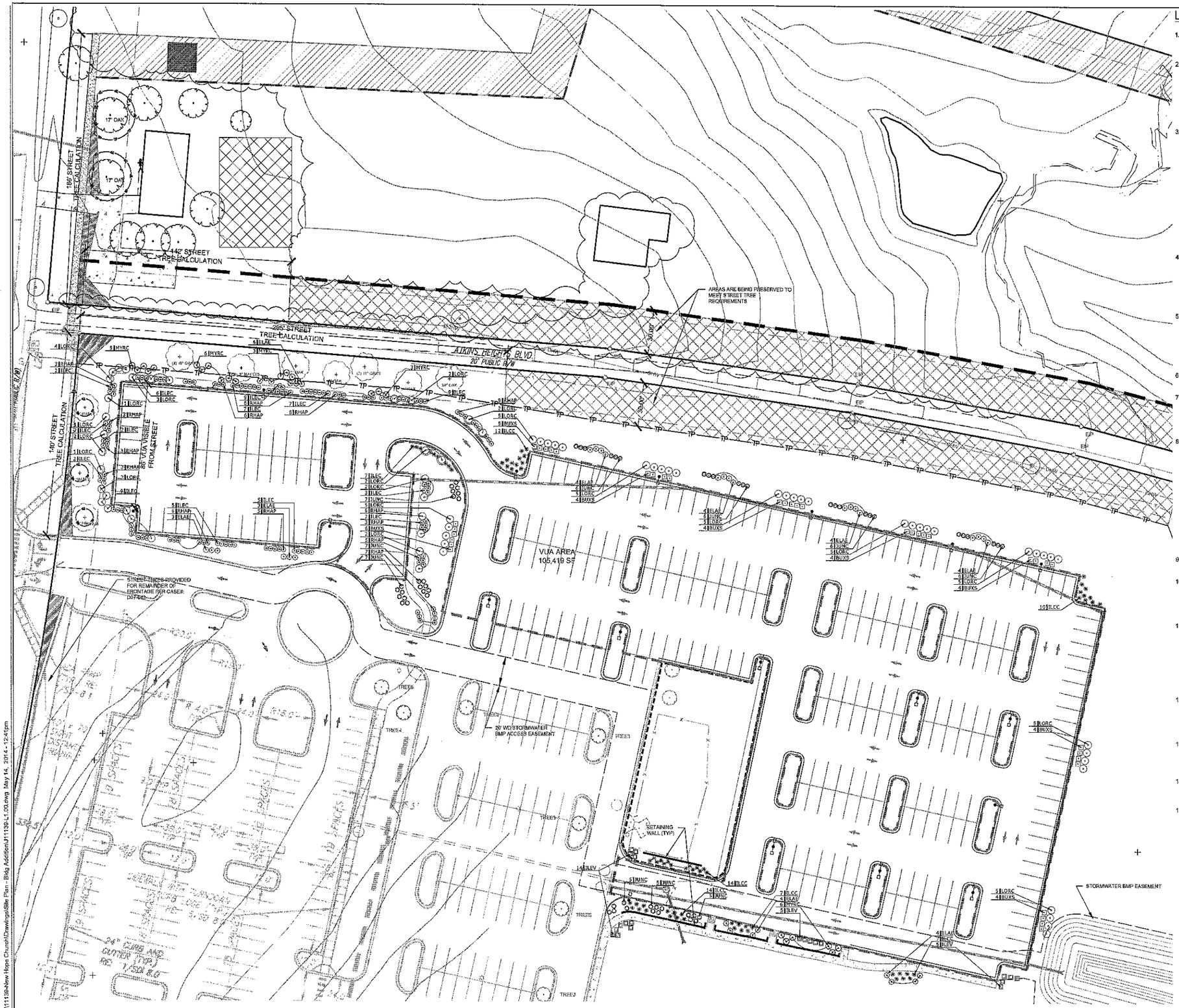
Title:

LANDSCAPE PLAN-TREES

Project number: J11139 Sheet:
Date: 11/19/2013
Drawn by: RMV
Approved by: RCS

L1.00

J:\11139-New Hope Church\Drawings\Site Plan - Bldg Addition\J11139-L1.00.dwg May 14, 2014 - 12:41pm



LANDSCAPE NOTES

1. ALL TREES TO BE A MINIMUM OF 2" IN CALIPER AND MUST MEET THE AMERICAN STANDARD FOR NURSERY STOCK.
2. TREE PROTECTION NOTE: TREE PROTECTION FENCING MUST BE IN PLACE PRIOR TO ANY DEMOLITION, LAND DISTURBANCE OR ISSUANCE OF A GRADING PERMIT AND SHALL INCLUDE WARNING SIGNS POSTED IN BOTH ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSING/TREE PROTECTION AREA/PROHIBIDO ENTRAR / ZONA PROTECTORA PARA LOS ÁRBOLES."
3. PROTECTION OF EXISTING VEGETATION: AT THE START OF GRADING INVOLVING THE LOWERING OF EXISTING GRADE AROUND A TREE OR STRIPPING OF TOPSOIL, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA AT THE SAME TIME AS OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE. NO STORAGE OF MATERIALS, FILL OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA.
4. ROOT ZONE PROTECTION AREA: VARIES BASED ON LOCAL JURISDICTION HAVING AUTHORITY. CONTRACTOR SHALL COMPLY WITH LOCAL JURISDICTIONAL REQUIREMENTS. NO DISTURBANCE ALLOWED WITHIN THIS AREA. AREA MUST BE PROTECTED WITH BOTH TREE PROTECTION FENCING AND WARNING SIGNS.
5. SEED BED PREPARATION: ALL AREAS TO BE SEEDED ARE TO BE RECEIVE A MINIMUM OF 2" OF APPROVED TOPSOIL. ALL DEBRIS, ROCKS, ETC. LARGER THAN 6" ARE TO BE REMOVED. ALL LARGE CONCENTRATIONS OF GRAVEL & DEBRIS REGARDLESS OF SIZE ARE TO BE REMOVED PRIOR TO SEEDING OR PLANTING.
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NEW HOPE CHURCH

Vicinity map:

Seal:

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1262 ROBERT C. SHUNK 5-14-14

Issued for:

SITE PLAN SUBMITTAL

No.	Date	Description
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0 15 30 60 NORTH

Scale: 1" = 30'

Title:

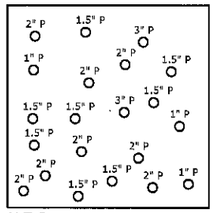
LANDSCAPE PLAN-SHRUBS

Project number: J11139 Sheet:
Date: 11/19/2013
Drawn by: RMV
Approved by: RCS

L1.01

J:\11139-New Hope Church\Drawings\Site Plan - Bldg Addition\J11139-L1.00.dwg May 14, 2014 - 12:41pm

20'X20' SAMPLE SURVEY # 1



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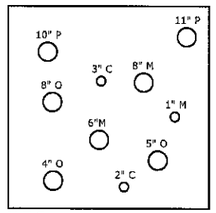

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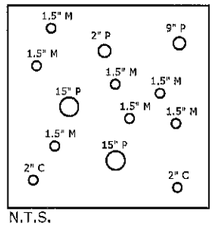

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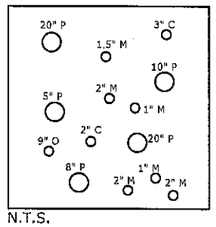
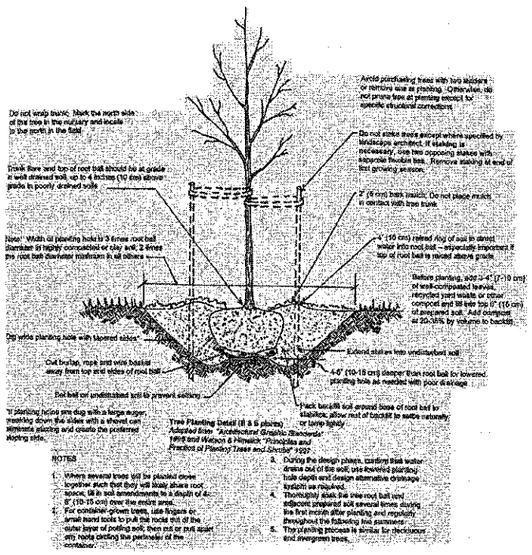


N.T.S.

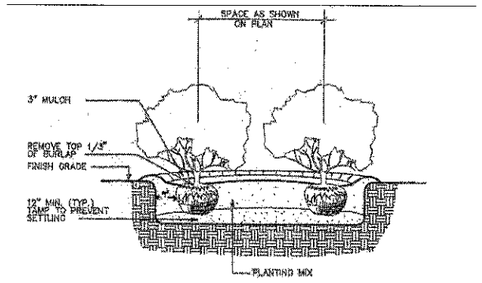
LEGEND

M - MAPLE
C - CEDAR
P - PINE



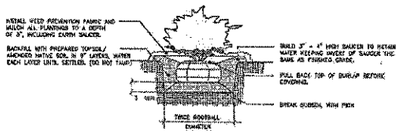
1 L1.1 TREE PLANTING DETAIL

N.T.S.



2 L1.1 SHRUB AND GROUNDCOVER DETAIL

N.T.S.



4 L1.1 SPECIMEN SHRUB DETAIL

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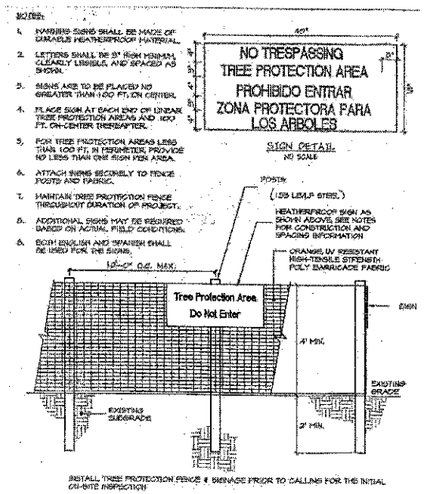

3 L1.1 TREE PROTECTION FENCE DETAIL

N.T.S.

PLANT LIST:

TREES							
TYPE	KEY	SCIENTIFIC NAME	COMMON NAME	SPECIFICATIONS	SPACING	PROVIDED	% OF TOTAL
CT	ACES	*Acer saccharum*	Sugar Maple	Relocated	SEE PLAN	4	7%
CT	QUCC	*Quercus coccinea*	Scarlet Oak	Relocated	SEE PLAN	2	3%
CT	PSC	*Pistacia chinensis*	Chinese Pistacio	2.5" CAL.	SEE PLAN	10	17%
CT	QUCC	*Quercus coccinea*	Scarlet Oak	2.5" Cal.	SEE PLAN	15	26%
CT	QUEC	*Quercus phellos 'QPMTF'*	Wynstar Willow Oak	2.5" Cal.	SEE PLAN	18	31%
CT	ZELS	*Zelkova serrata*	Japanese Zelkova	2.5" CAL.	SEE PLAN	16	26%
TOTAL TREES						56	100%

SHRUBS							
TYPE	KEY	SCIENTIFIC NAME	COMMON NAME	SPECIFICATIONS	SPACING	PROVIDED	% OF TOTAL
EV	BUXS	*Buxus microphylla japonica 'Winter Gem'*	Winter Gen Boxwood	15" Height	36" O.C.	37	8.5%
EV	ELAE	*Elaeagnus ebbingii*	Elaeagnus	15" Height	36" O.C.	36	8.3%
EV	ILEC	*Ilex cornuta 'Carissa'*	Carissa Holly	15" Height	36" O.C.	61	14.1%
EV	ILCC	*Ilex crenata 'Compacta'*	Dwarf Japanese Holly	15" Height	36" O.C.	71	16.4%
EV	ILEV	*Ilex vomitoria 'Nana'*	Dwarf Yaupon Holly	15" Height	36" O.C.	21	4.8%
EV	JUNC	*Juniperous chinensis*	Yeddo Hawthorn	15" Height	36" O.C.	45	10.4%
EV	LORC	*Loropetalum chinense 'Ruby'*	Ruby Loropetalum	15" Height	36" O.C.	69	15.9%
EV	MYRC	*Mylca cerifera*	Wax Myrtle	15" Height	36" O.C.	23	5.3%
EV	RHAP	*Rhaphiolepis umbellata*	Yeddo Hawthorn	15" Height	36" O.C.	70	16.2%
TOTAL SHRUBS						433	100.0%

MIX OF SPECIES:
1. THE MAXIMUM PERCENTAGE OF TREES OF THE SAME GENUS AND SPECIES THAT MAY BE PLANTED IS 50% (28 TREES)WITH A MINIMUM OF 3 SPECIES REQUIRED.
2. THE MAXIMUM PERCENTAGE OF SHRUBS OF THE SAME GENUS AND SPECIES THAT MAY BE PLANTED IS 20% (86 SHRUBS) WITH A MINIMUM OF 8 SPECIES REQUIRED.

LANDSCAPE CALCULATIONS:

	STREET TREES		VUA VISIBLE FROM STREET	VUA INTERNAL
	FAYETTVILLE RD - SOUTH OF ATKINS	ATKINS HEIGHTS BLVD SOUTH OF ATKINS	FAYETTVILLE RD	VUA
	140 LF	295 LF	86 LF	105,410 SF
Existing Tree Credits	3	70	3	4
Existing Shrubs	-	-	0	0
Required Trees	4	6	3	53
Required Shrubs	-	-	29	56
Proposed Trees	1	11	0	422
Proposed Shrubs	-	-	40	433

	STREET TREES	
	FAYETTVILLE RD - NORTH OF ATKINS	ATKINS HEIGHTS BLVD - NORTH OF ATKINS
	186 LF	142 LF
Existing Tree Credits	17	0
Existing Shrubs	-	-
Required Trees	5	4
Required Shrubs	-	-
Proposed Trees	1	4
Proposed Shrubs	-	-

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LANDSCAPE DETAILS

Project number: J11139 Sheet:
Date: 11/19/2013
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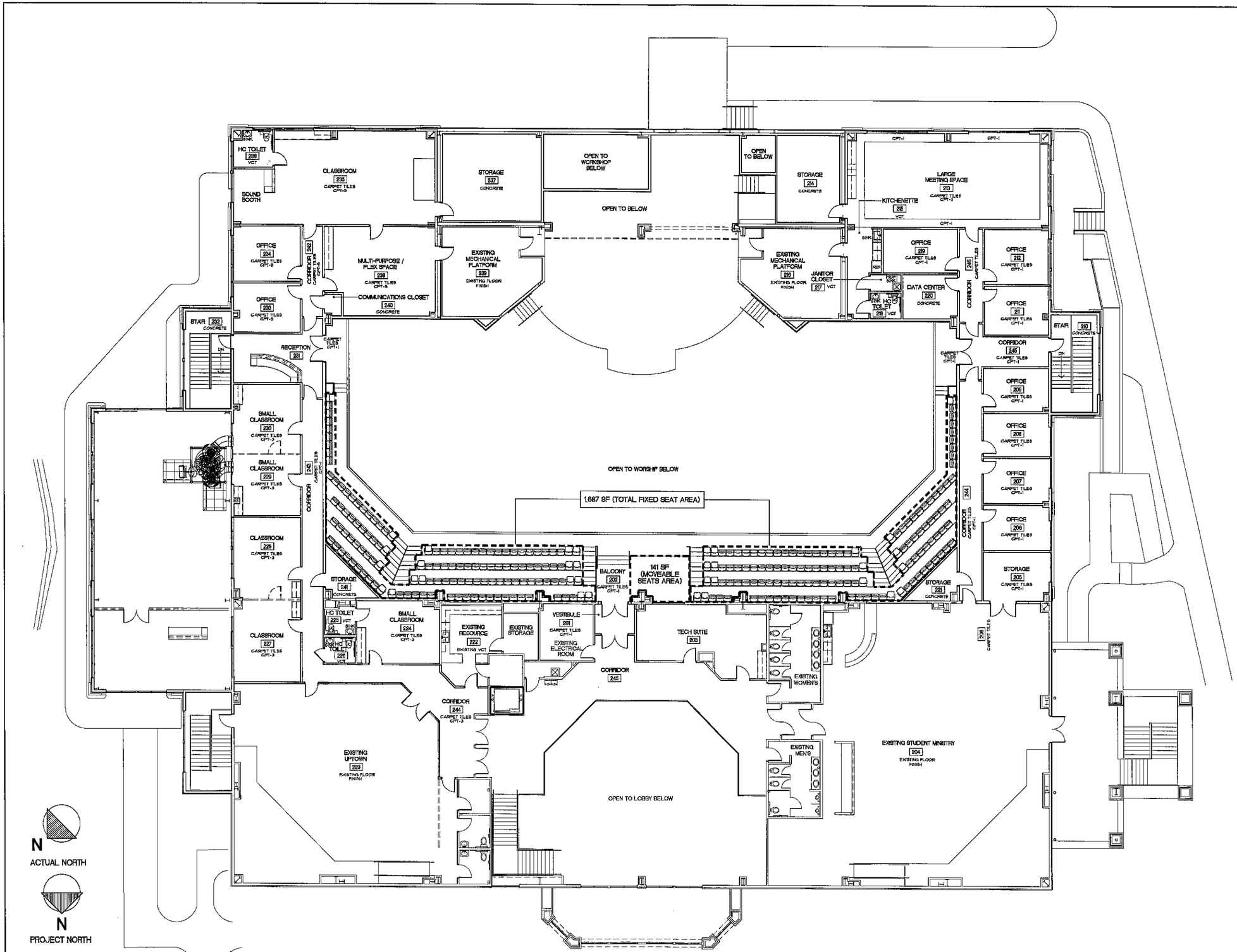


01 SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

REVISIONS	BY

SHADOIN ASSOCIATES
Architects Space Planners Interiors
1145 EXECUTIVE CIRCLE, SUITE F, CARY, NC 27511 919/380-8257

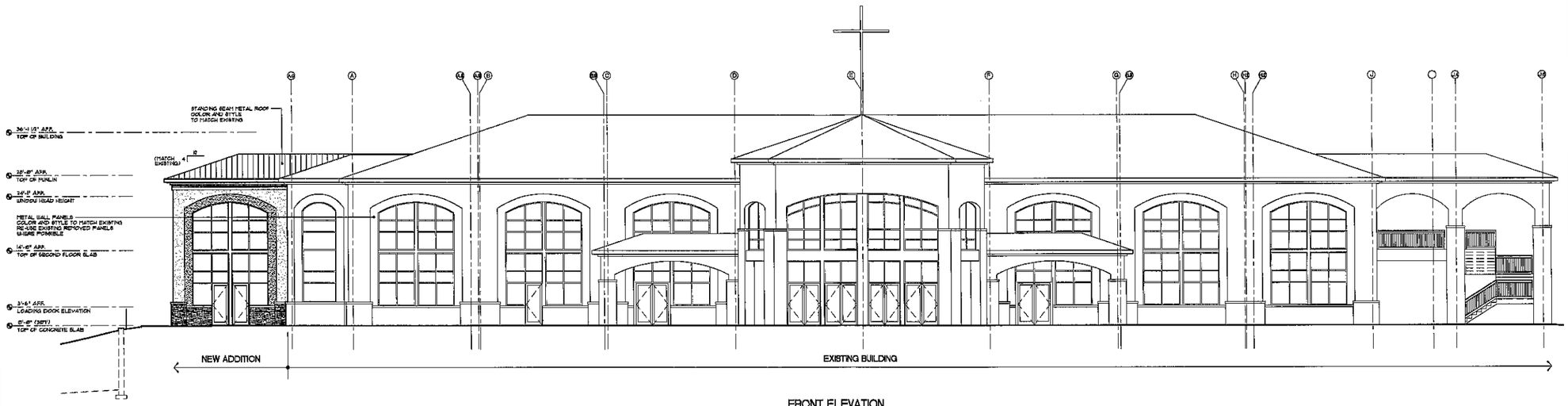
NOT FOR CONSTRUCTION

AN ADDITION AND INTERIOR RENOVATIONS FOR
newhope church
7619 FAYETTEVILLE ROAD
DURHAM, NORTH CAROLINA

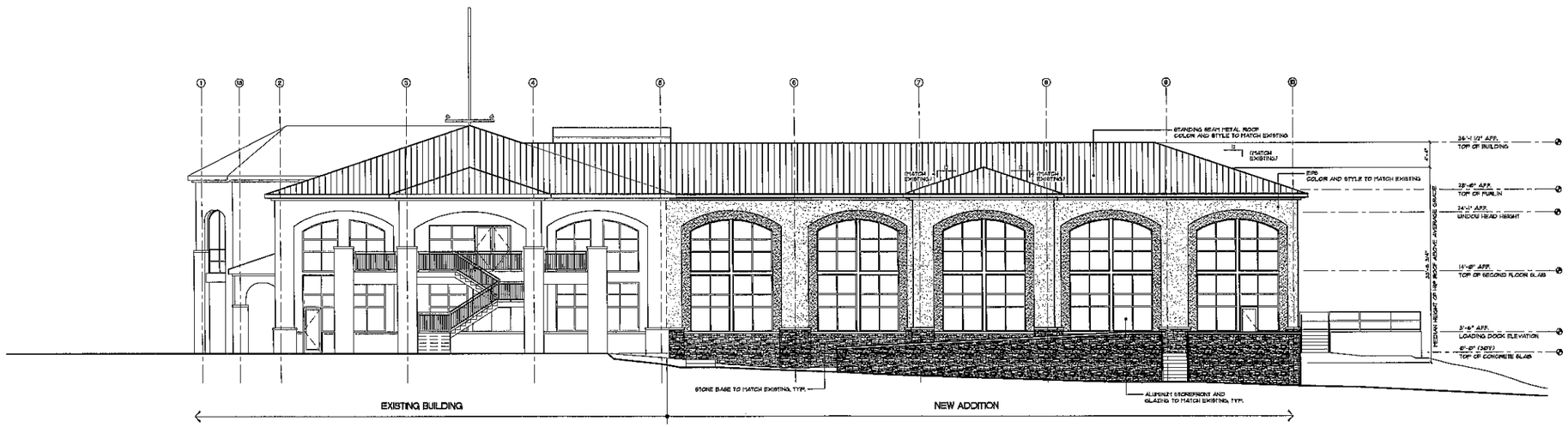
newhope church

DRAWN DVS
CHECKED
DATE 04/07/14
SCALE AS NOTED
JOB NO.

A2.2



01 FRONT ELEVATION
SCALE: 1/16" = 1'-0"



02 RIGHT ELEVATION
SCALE: 1/16" = 1'-0"

REVISIONS	BY

SHADOIN ASSOCIATES
Architects Space Planners Interiors
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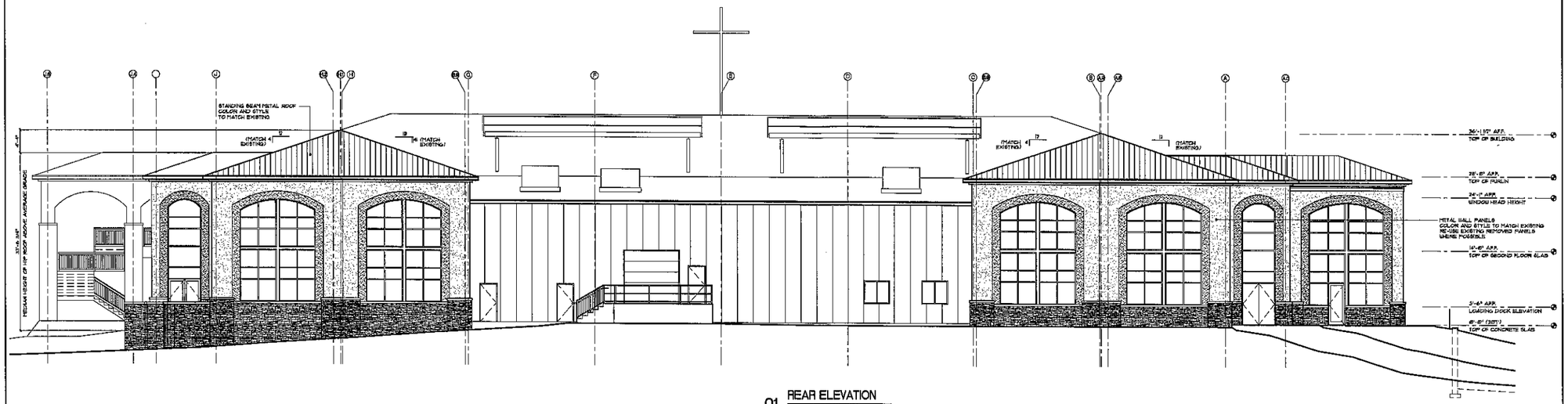
AN ADDITION AND INTERIOR RENOVATIONS FOR
newhope church
7619 FAYETTEVILLE ROAD
DURHAM, NORTH CAROLINA

DRAWN	DVS
CHECKED	
DATE	04/07/14
SCALE	AS NOTED
JOB NO.	
SHEET	A3.0



01 REAR ELEVATION
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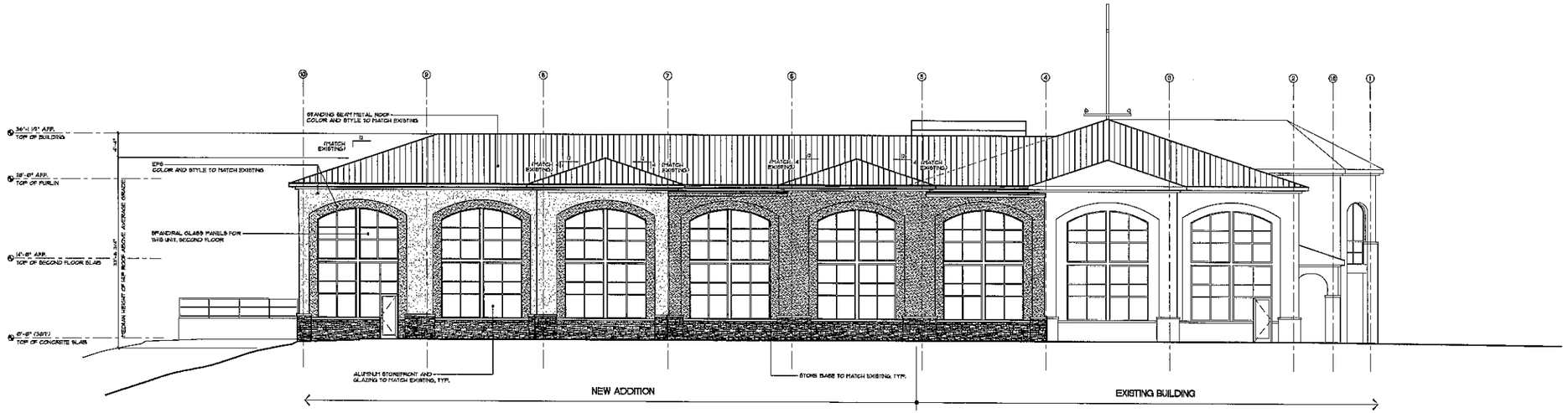

02 LEFT ELEVATION
SCALE: 1/16" = 1'-0"

REVISIONS	BY

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AN ADDITION AND INTERIOR RENOVATIONS FOR
newhope church
7619 FAYETTEVILLE ROAD
DURHAM, NORTH CAROLINA

newhope church

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DATE	03/24/14
SCALE	AS NOTED
SHEET	A3.1