

CDOT NOTES

- THE DEVELOPER SHALL CONTACT THE CHARLOTTE DEPARTMENT OF TRANSPORTATION (GUS JORDI, 704-336-7086) TO IDENTIFY ANY CONFLICTS WITH TRAFFIC SIGNALIZATION EQUIPMENT. 60-90 DAYS WILL BE REQUIRED TO COORDINATE RELOCATION. DEVELOPER SHALL BE RESPONSIBLE FOR ALL RELATED RELOCATION COST AND/OR ANY REPAIR COST CAUSE BY THE CONTRACTOR/DEVELOPER. CERTIFICATION AND STREET CUT PERMITS ARE REQUIRED FOR UTILITY CUTS ON CITY STREETS. ALLOW 7 DAYS PROCESSING FOR PERMIT. FOR INFORMATION CONTACT CHARLOTTE DEPARTMENT OF TRANSPORTATION (704-336-4025) OR VISIT HTTP: //WWW.CHARMECK.ORG/DEPARTMENTS/TRANSPORTATION/STREET+MAINTENANCE/HOME.HTM.
- NON-STANDARD ITEMS (I.E. PAVERS, IRRIGATION SYSTEMS, ETC.) IN THE RIGHT-OF-WAY REQUIRE A RIGHT-OF-WAY ENCROACHMENT AGREEMENT WITH THE CHARLOTTE DEPARTMENT OF TRANSPORTATION/NORTH CAROLINA DEPARTMENT OF TRANSPORTATION BEFORE INSTALLATION. FOR CITY OF CHARLOTTE MAINTAINED STREETS, CONTACT CDOT AT 704-336-3888. 4. ANY WORK WITHIN THE CITY'S R/W THAT REQUIRES CLOSURE OF THE SIDEWALK OR TRAVEL LANE FOR LESS THAN 30 DAYS REQUIRES A R/W USE PERMIT. TRAFFIC CONTROL PLANS FOR ANY SIDEWALK OR TRAVEL LANE CLOSURES MUST BE SUBMITTED AS PART OF THE R/W USE PERMIT REQUEST. TRAFFIC CONTROL PLANS MUST BE IN ACCORDANCE WITH CDOT'S WORK AREA TRAFFIC CONTROL HANDBOOK (WATCH) AND MUST BE REVIEWED AND APPROVED. CONTRACTOR SHALL CONTACT CDOT AT LEAST 5 BUSINÉSS DAYS IN ADVANCE OF BEGINNING WORK AT 704-432-1562.
- CONSTRUCTION STAGING WITHIN CITY R/W LASTING MORE THAN 30 DAYS REQUIRES A R/W LEASE AGREEMENT. CONTRACTOR SHALL CONTACT CDOT AT 704-336-2562. RIGHT-OF-WAY CLOSURES LONGER THAN 30 DAYS REQUIRE A R/W LEASE AGREEMENT WHICH WILL INCLUDE THE SUBMITTAL OF A TRAFFIC CONTROL PLAN. TRAFFIC CONTROL PLANS REQUIRED THROUGH A LEASE AGREEMENT MAY BE DIFFERENT FROM THE ONE REQUIRED DURING THE LAND DEVELOPMENT PLAN REVIEW AND ARE SUBJECT TO REVISIONS. THE REVISED TRAFFIC CONTROL PLANS MUST BE SUBMITTED AS PART OF THE LEASE AGREEMENT PROCESS FOR APPROVAL PRIOR TO START R/W CLOSURES. CONTRACTOR SHALL CONTACT CDOT AT 704-336-2562.
- THIS MAP IS NOT A CERTIFIED SURVEY. BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY THE ISAACS GROUP, P.C. FIELD WORK WAS PERFORMED ON JUNE 21, 2015. THE UTILITIES SHOWN ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THIS PLAN; THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONFLICTS BETWEEN EXISTING UTILITIES AND PROPOSED EXCAVATION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. PROVIDE MINIMUM OF 48 HOUR NOTICE TO OWNER OR REPRESENTATIVE PRIOR TO INTERRUPTION OF ANY EXISTING UTILITY, IF BEING UTILIZED.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ANY UTILITIES DAMAGED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATION & PROTECTION OF EXISTING ABOVE AND BELOW GROUND UTILITIES AND STRUCTURES. ANY AND ALL MAINS OR INDIVIDUAL SERVICES PRESENTLY IN SERVICE WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY AT NO ADDITIONAL EXPENSE TO THE UTILITY OWNER. ANY AND ALL MAINS OR INDIVIDUAL SERVICES PRESENTLY NOT IN SERVICE AND WHICH ARE TO BE REPLACED DURING THE COURSE OF CONSTRUCTION MAY BE REMOVED AND LEGALLY DISPOSED OF IF DAMAGED DURING CONSTRUCTION. THE CONTRACTOR SHALL USE EXTREME CARE WHEN WORKING NEAR ALL UNDERGROUND AND OVERHEAD UTILITIES.
- 6. HANDICAP SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH A.D.A STANDARDS AT H/C PARKING SPACES SHOWN. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL NECESSARY PERMITS AND APPROVALS HAVE BEEN OBTAINED PRIOR TO CONSTRUCTION. THESE PERMITS AND APPROVALS MAY INCLUDE BUT ARE NOT LIMITED TO GRADING, DEMOLITION, ZONING, BUILDING, DRIVEWAY, DETENTION, SUBDIVISION,
- SPECIAL USE, SEWER AND WATER. CONTACT THE UTILITY COMPANY TO RELOCATE ANY EXISTING UTILITY POLES. ALL EXISTING FACILITIES WHICH CONFLICT WITH THE IMPROVEMENTS UNDER THE SCOPE OF THIS PROJECT MUST BE RELOCATED AT THE EXPENSE OF THE APPLICANT. 10. ALL DEVELOPMENT CREATING A TOTAL OF 20,000 SQUARE FEET OF IMPERVIOUS AREA SINCE SEPTEMBER 1978 WILL REQUIRE STORM DRAINAGE DETENTION. TREES WITHIN THE STREET RIGHT OF WAY ARE PROTECTED BY LAW. A PERMIT IS REQUIRED FROM THE CITY ARBORIST AT (704)-336-4262 PRIOR TO THE REMOVAL OF ANY RIGHT OF WAY TREES.
- ALL TREES OVER 8" IN DIAMETER AS MEASURED 4.5' ABOVE GROUND AND LOCATED WITHIN THE SETBACK ARE PROTECTED BY LAW. CONTACT LAND DEVELOPMENT AT (704)-336-6692 FOR REQUIRED PERMITS. 12. BEFORE YOU DIG STOP. CALL THE NC ONE-CALL CENTER AT 1-800-632-4949. "IT'S THE LAW." 13. THE DEVELOPER SHALL CONTACT THE CHARLOTTE DEPARTMENT OF TRANSPORTATION (GUS JORDI 704-336-7086) TO IDENTIFY ANY CONFLICTS WITH TRAFFIC SIGNALIZATION EQUIPMENT. 60-90 DAYS
- WILL BE REQUIRED TO COORDINATE RELOCATION. DEVELOPER SHALL BE RESPONSIBLE FOR ALL RELOCATION COST AND/OR ANY REPAIR COST CAUSED BY THE CONTRACTOR/DEVELOPER. 14. NO LIGHT/UTILITY POLES TO BE PLACED IN TREE ISLANDS. THE PURPOSE OF THE STORM DRAINAGE EASEMENT IS TO PROVIDE STORM WATER CONVEYANCE. BUILDINGS ARE NOT PERMITTED IN THE EASEMENT AREA. ANY OTHER OBJECTS WHICH IMPEDE STORMWATER FLOW OR SYSTEM MAINTENANCE ARE ALSO PROHIBITED.
- 16. APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS. 17. IN ORDER TO ENSURE PROPER DRAINAGE, KEEP A MINIMUM OF 0.5% SLOPE ON THE CURB. 18. HIGH-DENSITE POLYETHYLENE (HDPE) STORM DRAINAGE PIPE INSTALLED WITHIN EXISTING OR PROPOSED PUBLIC STREET RIGHT-OF-WAY MUST BE APPROVED BY THE CITY'S INSPECTOR PRIOR TO ANY BACKFILL BEING PLACED. BACKFILL MATERIAL MUST BE APPROVED BY THE CITY INSPECTOR PRIOR TO PLACEMENT OF THE MATERIAL WITHIN THE PUBLIC STREET RIGHT-OF-WAY.

SITE PREPARATION

PRIOR TO CONSTRUCTION, THE PROPOSED CONSTRUCTION AREA SHOULD BE STRIPPED OF TOPSOIL, ORGANIC MATERIAL, EXISTING UNDOCUMENTED FILL AND OTHER SOFT OR UNSUITABLE MATERIAL, UPON COMPLETION OF STRIPPING OPERATIONS, THE EXPOSED SUBGRADE IN AREAS TO RECEIVE FILL SHOULD BE PROOFROLLED WITH A LOADED DUMP TRUCK OR SIMILAR PNEUMATIC-TIRED VEHICLE. HAVING A LOADED WEIGHT OF APPROXIMATELY 25 TONS. AFTER EXCAVATION, THE EXPOSED SUBGRADES IN CUT AREAS SHOULD BE SIMILARLY PROOFROLLED.

PROOFROLLING OPERATIONS SHOULD BE PERFORMED UNDER THE OBSERVATION OF A GEOTECHNICAL ENGINEER OR HIS AUTHORIZED REPRESENTATIVE. THE PROOFROLLING SHOULD CONSIST OF TWO (2) COMPLETE PASSES OF THE EXPOSED AREAS, WITH EACH PASS BEING IN A DIRECTION PERPENDICULAR TO THE PRECEDING ONE. ANY AREAS WHICH DEFLECT, RUT OR PUMP DURING THE PROOFROLLING, AND FAIL TO BE REMEDIED WITH SUCCESSIVE PASSES, SHOULD BE UNDERCUT TO SUITABLE SOILS AND BACKFILLED WITH COMPACTED FILL.

THE ABILITY TO DRY WET SOILS, AND THEREFORE THE ABILITY TO USE THEM FOR FILL, WILL LIKELY BE ENHANCED IF EARTHWORK IS PERFORMED DURING SUMMER OR EARLY FALL. IF EARTHWORK IS PERFORMED DURING WINTER OR AFTER APPRECIABLE RAINFALL THEN SUBGRADES MAY BE UNSTABLE DUE TO WET SOIL CONDITIONS, WHICH COULD INCREASE THE AMOUNT OF UNDERCUTTING REQUIRED. DRYING OF WET SOILS, IF ENCOUNTERED, MAY BE ACCOMPLISHED BY SPREADING AND DISCING OR BY OTHER MECHANICAL OR CHEMICAL MEANS.

IF EXCAVATIONS IN PORTIONS OF THE SITE ENCOUNTER VERY DENSE SOILS, PARTIALLY WEATHERED ROCK, OR BORINGS AND/OR ADDITIONAL TESTING SHOULD UNDER OWNER'S APPROVAL BE PERFORMED TO FURTHER IDENTIFY DEPTH TO PARTIALLY WEATHERED ROCK AND ROCK.

REMAIN UNDETECTED DURING FIELD EXPLORATION. IT IS RECOMMENDED THAT EQUIPMENT CAPABLE OF HEAVY EXCAVATION BE USED DURING GRADING ACTIVITIES. STORM WATER PIPING PLANS SHOULD TAKE INTO ACCOUNT THE EXISTENCE OF DENSE MATERIALS AND ROCK PRIOR TO CONSTRUCTION.

EXISTING ISOLATED BOULDERS IN THE SOIL MATRIX OR ERRATIC ROCK CONDITIONS CAN SOMETIMES

PARTIALLY WEATHERED ROCK CAN SOMETIMES BE EXCAVATED WITHOUT BLASTING. IN MASS EXCAVATION FOR GENERAL SITE WORK, DENSE SOILS AND PARTIALLY WEATHERED ROCK CAN USUALLY BE REMOVED BY RIPPING WITH A SINGLE-TOOTH RIPPER ATTACHED TO A LARGE CRAWLER TRACTOR OR BY BREAKING IT OUT WITH A LARGE FRONT-END LOADER. SUBSURFACE MATERIALS WITH A STANDARD PENETRATION RESISTANCE VALUE OF 50/6, 50/5, AND 50/4 INCHES OF PENETRATION CAN LIKELY BE LOOSENED AND RIPPED AS NOTED ABOVE.

IN CONFINED EXCAVATIONS SUCH AS FOUNDATIONS, UTILITY TRENCHES, ELEVATOR PITS, ETC., REMOVAL OF PARTIALLY WEATHERED ROCK MAY REQUIRE USE OF HEAVY DUTY BACKHOES (SUCH AS A JOHN DEER 120C OR EQUIVALENT EXCAVATOR EQUIPPED WITH ROCK TEETH), PNEUMATIC SPADES, OR LIGHT BLASTING. THE EASE OF EXCAVATION DEPENDS ON THE QUALITY OF GRADING EQUIPMENT, SKILL OF THE EQUIPMENT OPERATORS AND GEOLOGIC STRUCTURE OF THE MATERIAL ITSELF, SUCH AS THE DIRECTION OF BEDDING, PLANES OF WEAKNESS AND SPACING BETWEEN DISCONTINUITIES. THEREFORE, A CONSERVATIVE APPROACH CONCERNING BUDGET ESTIMATES FOR JTILITY AND STORM WATER POND EXCAVATIONS IS RECOMMENDED. SUBSURFACE MATERIAL THAT EXHIBITED A STANDARD PENETRATION RESISTANCE VALUE OF 50/3, 50/2, AND 50/1 INCHES OF

RIP ROCK: ANY MATERIAL THAT CANNOT BE REMOVED BY SCRAPERS, LOADERS, PANS, DOZERS, OR GRADERS: AND REQUIRES THE USE OF A SINGLE-TOOTH RIPPER MOUNTED ON A CRAWLER TRACTOR HAVING A MINIMUM DRAW BAR PULL RATED AT NOT LESS THAN 56,000 POUNDS.

PENETRATION OR LESS WILL LIKELY REQUIRE BLASTING FOR REMOVAL

BLAST ROCK: ANY MATERIAL WHICH CANNOT BE EXCAVATED WITH A SINGLE-TOOTH RIPPER MOUNTED ON A CRAWLER TRACTOR HAVING A MINIMUM DRAW BAR PULL RATED AT NOT LESS THAN 56,000 POUNDS (CATERPILLAR 0-8 OR EQUIVALENT) OR BY A CATERPILLAR 977 FRONT-END LOADER OR EQUIVALENT; AND OCCUPYING AN ORIGINAL VOLUME OF AT LEAST ONE (1) CUBIC

BLAST ROCK: ANY MATERIAL WHICH CANNOT BE EXCAVATED WITH A BACKHOE HAVING A BUCKET CURLING FORCE RATED AT NOT LESS THAN 25,700 POUNDS (CATERPILLAR MODEL 225 OR EQUIVALENT), AND OCCUPYING AN ORIGINAL VOLUME OF AT LEAST ONE-HALF (1/2) CUBIC YARD. BLASTING SHOULD ONLY BE CONDUCTED WHERE RIPPING CANNOT EXCAVATE MATERIALS. WE

RECOMMEND THAT EXCAVATABLE SOILS BE REMOVED FIRST WITH CONVENTIONAL GRADING EQUIPMENT (SCRAPERS AND LOADERS). WE DO NOT RECOMMEND LEAVING SOIL OVERBURDEN IN PLACE DURING BLASTING BECAUSE DÉTERMINATION OF BLAST ROCK QUANTITIES BECOMES VERY DIFFICULT AND COSTS ARE GENERALLY GREATER. IN ADDITION, RESIDUAL SOIL OVERBURDEN WILL INCREASE THE CONFINING PRESSURE OF THE ROCK AND REDUCE THE EFFECTIVENESS OF BLAST CHARGES. LOOSE FILL OR BLASTING MATS CAN BE PLACED OVER THE BLAST AREA TO CONTROL FLY-ROCK. REMOVAL OF ROCK BY BLASTING IS VERY EXPENSIVE. HENCE, CONTROL OF QUANTITIES IS IMPORTANT. WE RECOMMEND A GEOTECHNICAL ENGINEER BE RETAINED TO PROVIDE ASSISTANCE FOR DETERMINING OR QUALIFYING THE BLAST ROCK QUANTITIES.

DEMOLITION NOTES:

CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND RELOCATION OF ITEMS SHOWN DEMOLITION PLAN. ANY ITEMS NOT INDICATED ON PLANS AND ARE IN QUESTION SHALL BE VERIFIED BY THE OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.

2. CONTRACTOR TO REMOVE ALL ABANDONED UTILITIES ON SITE. 3. INSTALL APPROPRIATE EROSION CONTROL MEASURES PRIOR TO DEMOLITION. 4. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF DEBRIS AND REFUSE IN AN APPROVED LOCATION.

CHARLOTTE URBAN FORESTRY -AND PRESERVATION REQUIREMENT CHARLOTTE URBAN FORESTRY - TREE PLANTING AND PRESERVATION REQUIREMENTS PLANT MATERIAL

MINIMUM TREE SIZE AT PLANTING IS 2" CALIPER AND 8' TALL FOR SINGLE-STEM TREES. ALL MULTI-STEM PLANTS MUST BE TREE FORM, 13. MINIMUM TREE SIZE AT PLANTING IS 2-INCH CALIPER (FOR SINGLE STEM TREES). ALL MULTI-STEM PLANTS MUST BE TREE FORM, MAXIMUM 3 TO 5 TRUNKS, AND MINIMUM 10' TALL. WHERE 3" SINGLE-STEM CALIPER TREES AR SPECIFIED/REQUIRED THE MINIMUM HEIGHT SHALL BE 10' TALL, IF MULTI-STEM TREES ARE SPECIFIED THEN THEY SHALL BE A MINIMUM OF 12' TALL. 2. ALL NEW TREES MUST HAVE <u>STRAIGHT TRUNKS WITH STRONG CENTRAL</u> <u>LEADERS INTACT TO THE TOP OF THE CROWN</u> UNLESS MULTI-STEM TREES ARE SPECIFIED. ALL REQUIRED TREES SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY, HAVE NORMAL GROWTH HABITS, HAVE WELL-DEVELOPED BRANCHES, BE VIGOROUS AND HAVE FIBROUS ROOT SYSTEMS. TREES WITH CO-DOMINANT BRANCHING WILL NOT BE ACCEPTED. TREES THAT HAVE BEEN SHEARED, TOPPED

OR CUT BACK TO MULTIPLY THE BRANCHING STRUCTURE MILL NOT ACCEPTED. TREES SHALL BE FREE OF ABRASIONS, DAMAGE, DISEASE, PESTS AND CRACKS. ALL PRUNING CUTS GREATER THAN ½ INCH DIAMETER SHALL HAVE CALLUS TISSUE FORMED PRIOR TO PLANTING. NO PRUNING CUT ON THE TRUNK SHALL BE MORE THAN ONE-HALF THE DIAMETER OF THE CENTRAL LEADER AT THE HEIGHT WHERE THE CUT WAS MADE. ROOT FLARES SHALL BE LOCATED AT GRADE. TREES WITH MORE THAN 2" OF SOIL COVERING THE ROOT BALL/FLARE FROM WILL NOT BE ACCEPTED (CLDS.40.09). 3. SIZE OF REQUIRED PLANTS, SPREAD OF ROOTS AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH ANSI Z60.1 (LATEST EDITION) AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION, EXCEPT WHERE SPECIFIED/AUTHORIZED BY URBAN FORESTRY.

ALL REQUIRED TREES OF A PARTICULAR SPECIES AND VARIETY SHALL BE UNIFORM IN SIZE AND CONFIGURATION. PERIMETER TREES IN URBAN ZONES SHALL BE 3" IN CALIPER AND BE FREE OF BRANCHES UP TO 6' FROM THE TOP OF THE BALL 6. A MINIMUM OF 50% OF NEW TREES MUST BE NATIVE SPECIES. AND SITES WITH MORE THAN 20 TREES REQUIRED WILL HAVE TO INSTALL MULTIPLE (3 OR MORE) SPECIES PURSUANT TO THE TREE ORDINANCE GUIDELINES. 75% OF REQUIRED TREES MUST BE LARGE MATURE SPECIES EXCEPT IN SITUATIONS WITH OVERHEAD POWER LINE CONFLICTS. PLANTING REQUIREMENTS: 8. SEE CLDS 40.01 & 40.09 (ON PLAN) FOR DETAILED TREE PLANTING REQUIREMENTS. 9. PLASTIC HOSE PARTS WILL NOT BE ACCEPTED FOR TREE STAKING. SEE CLDS

40.01 FOR APPROVED STAKING METHOD/MATERIALS. 10. ALL STRAPPING, AND TOP 1/3 OF WIRE BASKET AND BURLAP MUST BE CUT AWAY AND REMOVED FROM ROOT BALL WHEN PLANTING. 11. FOR NEW PLANTING AREAS, REMOVE ALL PAVEMENT, GRAVEL SUB-BASE AND CONSTRUCTION DEBRIS; REMOVE COMPACTED SOIL AND ADD 24" NEW TOPSOIL, OR TILL AND AMEND THE TOP 24" OF EXISTING SOIL TO MEET TOPSOIL/PLANTING MIX STANDARDS FOR TREES (WITHIN ENTIRE MINIMUM AREA OF 274 SOLIARE FEET) 12. TREES PLANTED ON PUBLIC PROPERTY WILL NEED APPROVAL FROM THE CITY ARBORIST AND/OR NCDOT. 13. REVIEW SOIL REQUIREMENTS IN THE TREE ORDINANCE GUIDELINES AT: HTTP: //LANDPERMITS.CHARMECK.ORG THEN CLICK TREES. UTILITY ISSUES 14. IN ANY UTILITY IS BEING INSTALLED IN OR NEAR ANY REQUIRED TREE(S) OR TREE SAVE AREA(S), CALL URBAN FORESTRY SPECIALIST TO RESOLVE PRIOR TO UTILITY INSTALLATION.

15. LARGE MATURING TREES MAY NOT BE PLANTED WITHIN 25' OF OVERHEAD POWER DISTRIBUTION OR TRANSMISSION LINES. IF TREES CONFLICT WITH POWER LINES OR SIGNS, CALL URBAN FORESTER TO RESOLVE BEFORE PLANTING. 16. IF TREES CONFLICT WITH ANY UTILITIES OR SIGNS; CALL URBAN FORESTER TO RESOLVE BEFORE PLANTING. . ADJUST TREE PLANTING LOCATIONS TO AVOID UNDERGROUND UTILITIES. PLANT 15' FROM ALL UNDERGROUND UTILITIES. 18. NO LIGHT POLES, UTILITY POLES OR TRANSFORMERS CAN BE INSTALLED IN TREE ISLANDS 19. COMMERCIAL SCALE LIGHTING (> 15' IN HEIGHT) MUST BE A MINIMUM DISTANCE OF 30' FROM A TREE. PEDESTRIAN SCALE LIGHTING (≤ 15' IN

HEIGHT) MUST BE A MINIMUM DISTANCE OF 15' FROM A TREE. SHOW SITE JGHTING ON LANDSCAPE PLAN. TREE SAVE AND PRESERVATION TREE PROTECTION MUST BE INSTALLED AND VERIFIED BY URBAN FORESTRY PRIOR TO STARTING ANY CONSTRUCTION ACTIVITY.
SHOW TREE PROTECTION AND TREES SAVE AREAS ON EROSION CONTROL, RADING AND LANDSCAPE PLAN SHEETS. 22. COMMERCIAL TREE SAVE AREAS MUST BE RECORDED ON A FINAL PLAT WITH HE MECKLENBURG COUNTY REGISTER OF DEEDS BEFORE URBAN FORESTRY

HOLDS CAN BE RELEASED. A 10' NO BUILD ZONE AROUND TREE SAVE AREAS MUST BE REFERENCED ON THE PLAT. 23. TREE SAVE AREAS SHALL BE FREE OF INVASIVE PLANT SPECIES. IF AN AREA PROPOSED FOR TREE SAVE CONTAINS INVASIVE PLANT SPECIES AT TIME OF PROPOSAL, SUCH INVASIVE PLANT SPECIES SHALL BE REMOVED RIOR TO FINAL CO.

24. THE AREA OF ANY EASEMENTS (WATER, SEWER, UTILITY, ETC.) CAN NOT BE COUNTED TOWARD THE TREE SAVE REQUIREMENT. 25. ANY ALTERATIONS TO TREE SAVE AREAS MUST BE ACCOMPLISHED WITHOUT MECHANIZED EQUIPMENT. 26 NO STRUCTURE WILL BE ALLOWED WITHIN 10' OF TREE SAVE AREAS UNLESS PPROVED BY URBAN FORESTRY

27. ALL TREES ON PUBLIC PROPERTY ARE PROTECTED AND REMOVAL MUST BE PERMITTED BY THE CITY ARBORIST (704)336-4262. 28. CONTACT URBAN FORESTRY SPECIALIST PRIOR TO ANY CRANE SET-UP, MACHINERY OPERATION OR TEMPORARY BUILDING ERECTION THAT MAY IMPACT CHARLOTTE TREE ORDINANCE PROTECTED TREES OR TREE SAVE AREAS, INCLUDING TREES LOCATED IN STREET RIGHT OF WAY. IMPACTS MAY INCLUDE BUT ARE NOT LIMITED TO: ENCROACHING WITH TREE DRIP-LINES, EXCAVATION, SOIL COMPACTION, TREE TRIMMING, ERECTING AND DISMANTLING OF CONSTRUCTION CRANES.

29. SUBMIT REQUIRED CO/HOLD RELEASE FORM AT HTTP: //CHARLOTTENC.GOV/LD FOR AN INSPECTION OF TREE PROTECTION/PLANTING AREAS, A MINIMUM OF 5 DAYS BEFORE THE CO/HOLD RELEASE IS NEEDED.

30. VISIT CITY OF CHARLOTTE'S LAND DEVELOPMENT WEBSITE FOR ADDITIONAL INFORMATION AND URBAN FORESTRY REQUIREMENTS: HTTP: //LANDPERMITS.CHARMECK.ORG THEN CLICK TREES. PAVEMENT STRIPING SPECIFICATION:

PARKING LINES AND MARKINGS A. ALLOW ASPHALT PAVING TO CURE AND SWEEP CLEAN PRIOR TO PAINTING. B. PAVEMENT MARKING AND SIGNAGE (TRAFFIC RATED, SLIP-RESISTANT AND

- TO THE FOLLOWING: a. WHITE DIRECTIONAL ARROWS ON ALL AISLES INDICATING 1-WAY OR 2-WAY CIRCULATION.
- b. WHITE STRIPING (4" WIDE) AT ALL PARKING SPACES IN PARKING FIELD. ALSO APPLIES TO CART CORRALS WHEN REQUIRED.
- SHALL BE A MINIMUM TWELVE FEET (12') WIDE FOR PEDESTRIAN CROSSING IN ACCORDANCE WITH APPLICABLE ACCESSIBILITY REQUIREMENTS. THE DIAGONAL STRIPES SHALL BE TWO FEET ON CENTER
- (2'O.C.) AND SHALL CONTINUE ACROSS THE MAIN DRIVE FROM THE STORE CURB TO THE PARKING FIELD. d. WHITE LANE MARKINGS AND TRAFFIC CONTROL STOP BARS AT SITE
- ACCESS AND EGRESS POINTS. e. YELLOW STRIPING AT THE PARCEL PICK-UP AREA. f. YELLOW SIXTY-FIVE FOOT (65') LINE-UP STRIPES FOR TRUCKS AT
- RECEIVING DOCK. g. PAINT SHALL BE SHERWIN WILLIAMS HOTLINE FAST DRY LATEX WITH GLASS BEADS ADDED FOR REFLECTIVENESS.

LINES SHALL BE 4" WIDE, UNIFORM, STRAIGHT, EVENLY SPACED AND ACCURATELY ALIGNED, WITH SHARPLY DEFINED EDGES. D. APPLY LINES AT NCDOT REQUIRED MIN. THICKNESS BY MEANS OF CONVENTIONAL TRAFFIC LINE STRIPING EQUIPMENT. USE TEMPLATES OR EMPLOY SKILLED SIGN PERSONNEL FOR HANDICAP SPACE MARKINGS TO BE PROVIDED AT EACH HANDICAP PARKING SPACE.

A. CLEAN UP DEBRIS GENERATED BY PAVING AND STRIPING OPERATIONS ON A DAILY BASIS.

B. REMOVE FROM SITE AT COMPLETION OF PAVING AND STRIPING WORK ALL REMAINING DEBRIS, EXCESS MATERIAL, AND WASTE CREATED BY PAVING AND PROTECTION

A. DO NOT PERMIT VEHICULAR TRAFFIC ON NEWLY COMPLETED ASPHALT SURFACES FOR AT LEAST TWELVE HOURS AFTER PLACING. B. PROTECT PAVING FROM DAMAGE BY CONSTRUCTION EQUIPMENT AND/OR SUBSEQUENT CONSTRUCTION OPERATIONS. PERMIT ONLY RUBBER-WHEELED VEHICLES ON PAVEMENT. C. AFTER APPLICATION OF LINES AND MARKINGS, BARRICADE AREAS UNTIL

PAINT HAS THOROUGHLY DRIED.

NCDOT IMPROVEMENTS A. ALL STRIPING IN NCDOT RIGHT OF WAY SHALL BE THERMOPLASTIC PER CURRENT NCDOT STANDARDS AND SPECIFICATIONS.

EROSION CONTROL NOTES

2. ON-SITE BURIAL PITS REQUIRE AN ON-SITE DEMOLITION LANDFILL PERMIT FROM THE ZONING ADMINISTRATOR. 3. ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE CITY OF CHARLOTTE EROSION AND SEDIMENT CONTROL ORDINANCE AND IS SUBJECT TO A FINE. 4. GRADING MORE THAN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF

THE CITY AND COUNTY'S EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE. 5. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICA SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.

6. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE SHOWN ON THE PLAN. 7. FAILURE TO SCHEDULE AN ON-SITE MEETING WITH CITY OF CHARLOTTE EC INSPECTOR 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY IS A VIOLATION AND IS SUBJECT TO A FINE. 8. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE CITY OF CHARLOTTE.

9. ANY LAND-DISTURBING ACTIVITY > 1 ACRES REQUIRES COMPLIANCE WITH ALL CONDITIONS OF THE GENERAL PERMIT TO DISCHARGE STORM WATER UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (PERMIT NO. NCG010000), ANY PERMIT NON-COMPLIANCE IS A VIOLATION OF THE CLEAN WATER ACT AND MAY REQUIRE ENFORCEMENT ACTION BY THE NORTH CAROLINA DEPARMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES. 10. SLOPES SHALL BE GRADED NO STEEPER THAN 2:1. FILL SLOPES GREATER THAN 10' REQUIRE

ADEQUATE TERRACING. 11. A GRADING PLAN MUST BE SUBMITTED TO CITY OF CHARLOTTE FOR ANY LOT GRADING EXCEEDING ONE ACRE THAT WAS NOT PREVIOUSLY APPROVED. 2. DRIVEWAY PERMIT FOR CONSTRUCTION ENTRANCES IN NCDOT RIGHT OF WAY MUST BE PRESENTED AT PRE-CONSTRUCTION MEETING.

TREE	PLANTING	· · · ·
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REFLECTIVE PAINT WITH GLASS BEADS) SHALL INCLUDE, BUT NOT BE LIMITED

c. WHITE (4" WIDE) DIAGONAL STRIPING AT STORE ENTRANCE AND EXITS

1. ALL "STD." NUMBERS REFER TO THE CITY OF CHARLOTTE LAND DEVELOPMENT STANDARDS MANUAL.

UTILITY NOTES:

1. EXACT LOCATIONS OF WATER SERVICE CONNECTIONS ARE REQUIRED FOR AS BUILT RECORDS. 2. MINIMUM COVER OF 36" FOR WATER AND SEWER LINES.

3. D.I.P. REQUIRED FOR WATER AND SEWER LINES IF FOLLOWING CONDITIONS ARE NOT MET: -12" CLEARANCE FROM STORM DRAINS, GAS MAINS, TELEPHONE DUCT BANKS AND UNDERGROUND CABLES. -18" VERTICAL CLEARANCE FOR WATER LINE INSTALLED ABOVE SEWER LINE.

-WATER LINE CROSSING UNDER SEWER LINE. -10' HORIZONTAL SEPARATION FOR WATER PARALLEL TO SEWER LINE.

4. SIZE AND LOCATION OF EXISTING WATER AND SEWER LINES TO BE VERIFIED BY THE CONTRACTOR.

5. CONTRACTOR SHALL COORDINATE THE PROPOSED WATER AND SEWER LINE WORK WITH THE CHARLOTTE MECKLENBURG UTILITY DEPARTMENT. (CMUD)

6. MATERIAL AND WORKMANSHIP REQUIREMENTS TO BE IN ACCORDANCE WITH THE CHARLOTTE MECKLENBURG UTILITY DEPARTMENT WATER AND SEWER POLICIES, PROCEDURES, STANDARDS AND SPECIFICATIONS FOR PUBLIC AND PRIVATE WATER AND SEWER LINES.

ALL 4" SANITARY SEWER LATERALS SHALL HAVE MIN. 1.0% SLOPE.

8. CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE ISAACS GROUP A MINIMUM OF 48 HOURS IN ADVANCE PRIOR TO THE CONSTRUCTION OF WATER AND SEWER LINES TO ALLOW A REPRESENTATIVE FROM THE ISAACS GROUP TO PERIODICALLY BE ON-SITE DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN AS-BUILT SURVEY OF THE WATER AND SEWER LINES TO THE ISAACS GROUP UPON COMPLETION OF INSTALLATION.

9. PROVIDE MINIMUM OF 48 HOUR NOTICE TO OWNER OR REPRESENTATIVE. 10. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ANY UTILITY

DAMAGED DURING CONSTRUCTION. 11. THE CONTRACTOR SHALL USE EXTREME CARE WHEN WORKING NEAR ALL UNDERGROUND AND OVERHEAD UTILITIES.

12. THERE SHALL BE NO TAPS, PIPING BRANCHES, UNAPPROVED BYPASS PIPING, HYDRANTS, FIRE DEPT. CONNECTION POINTS, OR OTHER WATER-USING APPURTENANCES CONNECTED TO THE

SUPPLY LINE BETWEEN ANY WATER METER AND ITS CMUD-REQUIRED BACKFLOW PREVENTER 13. EACH CMUD-REQUIRED BACKFLOW PREVENTION ASSEMBLY IS REQUIRED TO BE TESTED BY A CMUD-APPROVED CERTIFIED TESTER PRIOR TO PLACING THE WATER SYSTEM IN SERVICE.

BACKFLOW NOTES:

NO PERMANENT INSULATION MAY BE INSTALLED ON THE BP ASSEMBLY. IT IS RECOMMENDED THAT HEAT BE PROVIDED FOR ALL ABOVE-GROUND DOMESTIC AND COMBINATION SERVICE BP ENCLOSURES TO PREVENT FREEZE DAMAGE. IRRIGATION BP'S CAN BE WINTERIZED BY DRAINING ALL WATER FROM THEM. ENCLOSURES FOR ABOVE-GROUND BP INSTALLATIONS ON FIRELINES ARE REQUIRED BY THE FIRE PEPT TO BE HEATED (MAINTAIN A MIN. OF 40° F.)

2. NO PLASTIC PIPING MATERIAL IS ALLOWED WITH 5' OF THE BP ENDS.

- THE MOST REMOTE POINT OF EACH PROPOSED BUILDING IS WITHIN 750' OF A FIRE HYDRANT AS A TRUCK TRAVELS.
- 4. FIRE DEPARTMENT ACCESS ROAD AND PARKING LOT SHALL BE ABLE TO WITHSTAND 80,000 LBS OF TRUCK TRAVEL.
- 5. ALL ACCESS ROADS ARE A MIN. 20' UNOBSTRUCTED CLEAR WIDTH.]

6. EXISTING UTILITIES LOCATED BETWEEN EXISTING METER AND THE BUILDING SHALL BE ABANDONED.

LAND DEVELOPMENT NOTES

1. LAND DEVELOPMENT ENGINEER TO BE GIVEN 24 HOURS NOTICE PRIOR TO START OF CONSTRUCTION.

2. IN ROLLING AND HILLY TERRAINS, SWEEPING OF THE STONE BASE AN/OR APPLICATION OF A TACK COAT MAY BE REQUIRED NEAR INTERSECTIONS. THESE REQUIREMENTS WILL BE ESTABLISHED BY THE CITY INSPECTOR BASED ON FIELD CONDITIONS. 3. APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS.

4. SUBSURFACE DRAINAGE FACILITIES MAY BE REQUIRED IN THE STREET RIGHT OF WAY IF DEEMED NECESSARY BY THE INSPECTOR.

5. DRIVEWAY PERMIT(S) MUST BE OBTAINED PRIOR TO ISSUANCE OF BUILDING PERMITS. 6. NON-STANDARD ITEMS (I.E.: PAVERS, IRRIGATION SYSTEMS, ETC.) IN THE RIGHT OF WAY REQUIRE A RIGHT OF WAY ENCROACHMENT AGREEMENT WITH THE CHARLOTTE DEPT. OF

TRANSPORTATION BEFORE INSTALLATION. 7. THE DEVELOPER SHALL MAINTAIN EACH STREAM, CREEK, OR BACKWASH CHANNEL IN AN UNOBSTRUCTED STATE AND SHALL REMOVE FROM THE CHANNEL AND BANKS OF THE STREAM ALL DEBRIS, LOGS, TIMBER, JUNK AND OTHER ACCUMULATIONS.

8. THE CITY OF CHARLOTTE ENGINEERING DEPARTMENT HAS NOT REVIEWED THE STRUCTURAL STABILITY OF AND SPECIFICATIONS PROVIDED IN THESE PLANS FOR THE FOLLOWING ITEMS: ANY RETAINING WALLS ON THE SITE AND DOES NOT ASSUME

RESPONSIBILITY FOR THEM. 9. REFERENCE THE CHARLOTTE LAND DEVELOPMENT STANDARDS MANUAL AND/OR THE

NCDOT DETAILS

SIDEWALK NOTES: . SIDEWALK CROSS-SLOPE SHALL NOT EXCEED 2% AND THE

RUNNING SLOPE ALONG THE TRAVEL PATH SHALL NOT EXCEED 5% EXCEPT AT DESIGNATED RAMPS.

2. CROSS-SLOPES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO POURING CONCRETE FOR THE SIDEWALKS.

3. IF AFOREMENTIONED SLOPES CAN NOT BE ATTAINED, THI ENGINEER SHOULD BE NOTIFIED PRIOR TO SIDEWALK INSTALLATION.

4. IF RAMPS EXCEED 6' IN LENGTH WITHOUT A LANDING AREA OR THE RUNNING SLOPE ALONG THE TRAVEL PATH EXCEEDS 5%, HANDRAILS MAY BE REQUIRED. VERIFY WITH ENGINEER OR LOCAL

INSPECTOR. DRAINAGE NOTES:

. REVERSE CURB AND GUTTER TO BE USED IN AREAS NOT CHANNELING STORM WATER RUNOFF.

2. THE PROPOSED CONTOURS WITHIN PAVED AREAS ARE GRAPHICAL REPRESENTATIONS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR GRADING UNIFORMLY BETWEEN SPOT ELEVATIONS.

3. CONTRACTOR TO GRADE ALL AREAS WITHIN PROJECT TO DRAIN STORM WATER. CARE SHALL BE TAKEN TO ENSURE THAT ALL AREAS WITHIN PARKING LOTS AND LANDSCAPED ISLANDS SHALL NOT HOLD WATER UPON PROJECT COMPLETION.

4. MIN. SLOPE ON ALL ASPHALT TO BE 1.5%.

5. MIN. SLOPE ON CURB AND GUTTER CARRYING STORM WATER TO BE 0.5%. 6. MIN. SLOPE ON REVERSE CURB AND GUTTER TO BE 0.5%.

ADDITIONAL GRADING NOTES . ANY CONSTRUCTION OR USE WITHIN THE FUTURE CONDITIONS FLOOD FRINGE INE IS SUBJECT TO THE RESTRICTIONS IMPOSED BY THE FLOODWAY REGULATIONS OF THE CITY OF CHARLOTTE AND MECKLENBURG COUNTY.

2. PE SEALED SHOW DRAWINGS FOR RETAINING WALL MUST BE SUBMITTED TO CITY ENGINEERING PRIOR TO CONSTRUCTION. 3. PRIOR TO CO, SURVEYOR SEALED AS-BUILT DRAWINGS OF ALL WATER QUALITY BMP'S AND DETENTION SYSTEMS MUST BE PROVIDED.

4. PER SECTION 18-175(e) OF CITY CODE AND SECTION 10.0 OF THE CITY'S POST CONSTRUCTION CONTROLS ADMINISTRATIVE MANUAL, ALL REQUIRED NATURAL AREAS AND/OR POST CONSTRUCTION CONTROLS EASEMENTS MUST BE RECORDED PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.

COMPACTION NOTES:

1. IN CITY AND NCDOT RIGHT OF WAYS COMPACT ALL MATERIAL TO A DEPTH OF 12 INCHES BELOW THE FINISHED SURFACE OF THE SUBGRADE TO A DENSITY EQUAL TO AT LEAST 100% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T99 AS MODIFIED BY THE DEPARTMENT. COMPACT THE SUBGRADE AT A MOISTURE CONTENT WHICH IS APPROXIMATELY THAT REQUIRED PRODUCE THE MAXIMUM DENSITY INDICATED BY THE ABOVE TEST METHOD. THE CONTRACTOR SHALL DRY OR ADD MOISTURE TO THE SUBGRADE WHEN REQUIRED TO PROVIDE A UNIFORMLY COMPACTED AND ACCEPTABLE SUBGRADE. ALL OTHER FILL AREAS/BACKFILL SHALL BE COMPACTED TO 95% DENSITY IN ACCORDANCE. WITH AASHTO T99 AS MODIFIED BY THE NODOT.

2. STRUCTURAL FILL IN IN THE SITE UNDER BUILDING, PARKING AND DRIVEWAYS SHOULD BE PLACED IN THIN (8 TO 12 INCHES) LIFTS AND COMPACTED TO A MIN. OF 98% OF THE SOIL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698) OR 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557) AT NEAR OPTIMUM MOISTURE CONTENT. THE UPPER 1 FOOT OF STRUCTURAL FILL WITHIN THE BUILDING PAD, DRIVEWAY AND PARKING AREAS SHOULD BE COMPACTED TO A MINIMUM OF 100% OF THE SOIL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698) AT NEAR OPTIMUM MOISTURE CONTENT. SOME MANIPULATION OF THE MOISTURE CONTENT (SUCH AS WETTING, DRYING) MAY BE REQUIRED DURING THE FILLING OPERATION TO OBTAIN THE REQUIRED DEGREE O COMPACTION. THE MANIPULATION OF THE MOISTURE CONTENT IS HIGHLY DEPENDENT ON WEATHER CONDITIONS AND SITE DRAINAGE CONDITIONS. THEREFORE, THE GRADING CONTRACTOR SHOULD BE PREPARED TO BOTH DRY AND WET THE FILL MATERIALS TO OBTAIN THE SPECIFIED COMPACTION DURING GRADING. SUFFICIENT DENSITY TESTS SHALL E PERFORMED BY AN INDEPENDENT GEOTECHNICAL FIRM TO CONFIRM THE REQUIRED

3. IN UNPAVED AREAS, THE TOP SIX INCHES SHALL BE COMPACTED TO A MIN. OF 90% ASTM D698 STANDARD PROCTOR.

COMPACTION OF THE FILL MATERIAL.

