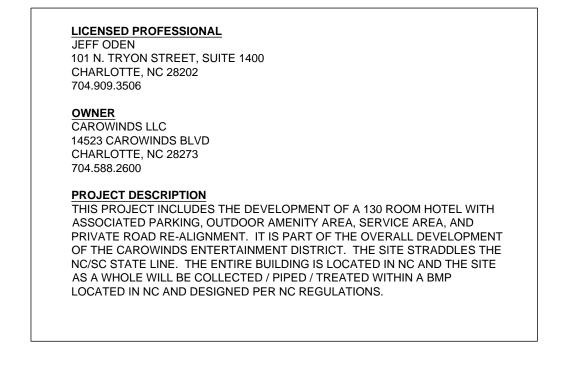
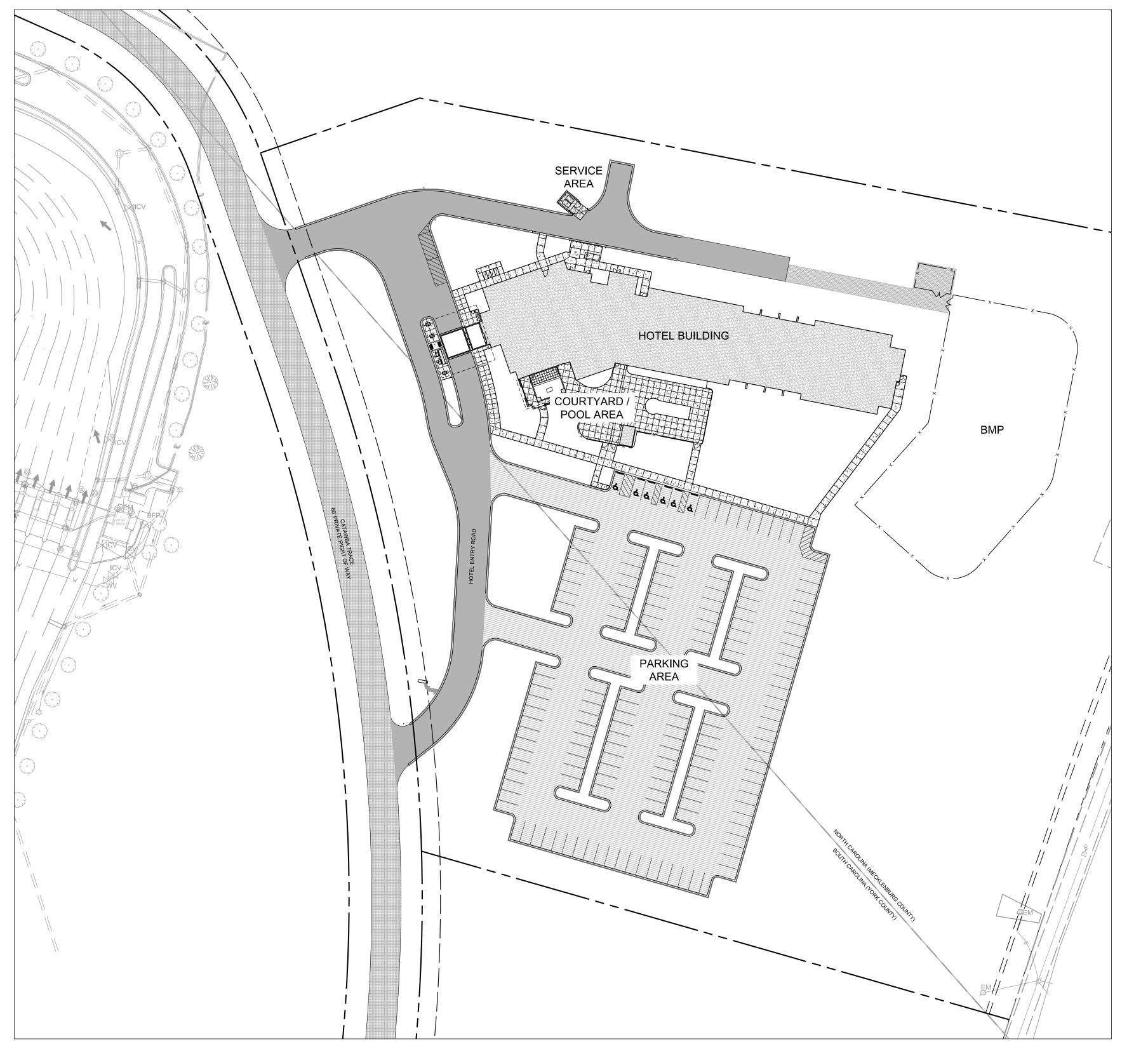
SPRING HILL SUITES HOTEL

14500 BEST DAY BOULEVARD

MECKLENBURG COUNTY, NORTH CAROLINA YORK COUNTY, SOUTH CAROLINA

FEBRUARY 9, 2018







FINAL APPROVAL

PROJECT NUMBER:

ENGINEERING

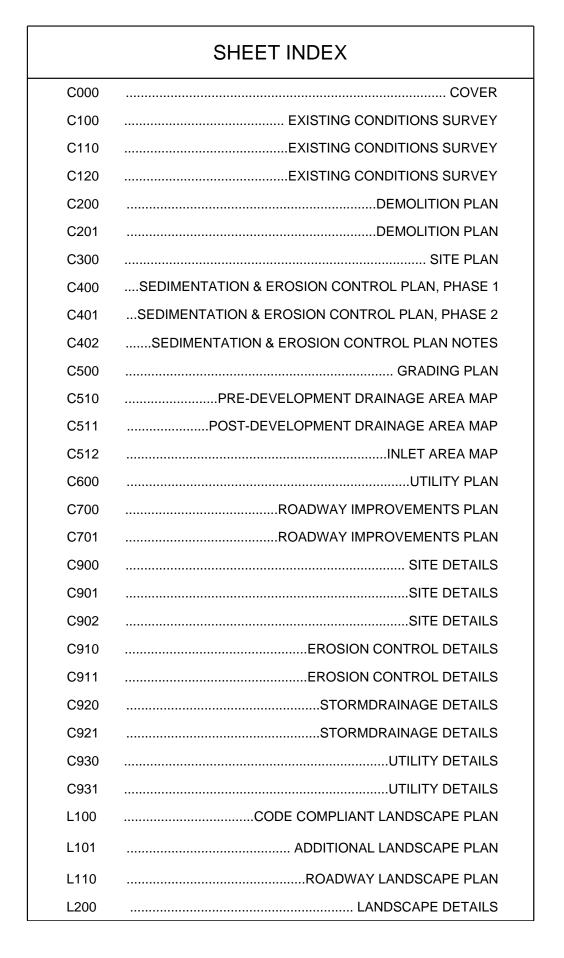
EROSION CONTROL

URBAN FORESTRY

CDOT

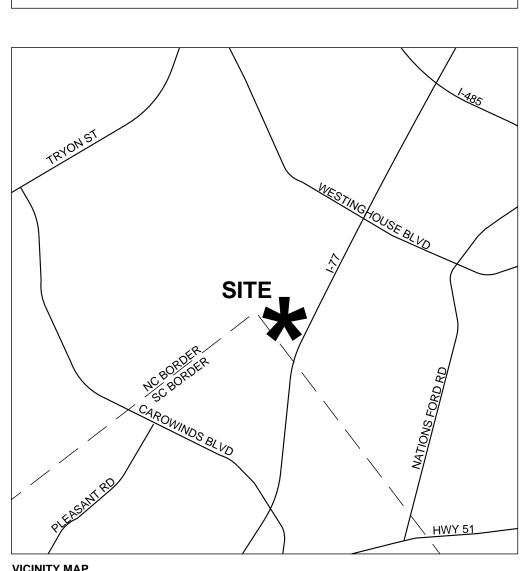
NOTE: THIS PLAN APPROVAL DOES NOT

AT LEAST 48 HRS. PRIOR TO ANY LAND DISTURBING ACTIVITY USING THE ONLINE FORM FOUND AT http://charlottenc.gov/ld



DUE TO THE PROJECT BEING LOCATED IN BOTH NORTH CAROLINA AND SOUTH CAROLINA, THE FOLLOWING SUMMARIZES THE CODES / ORDINANCES THE PROJECT HAS BEEN DESIGNED TO:

BUILDING NC BUILDING CODE SITE MECKLENBURG / CHARLOTTE CODE STORMWATER MECKLENBURG / CHARLOTTE CODE LANDSCAPE MECKLENBURG / CHARLOTTE CODE





APPROVED

APPROVED By H. Kunzig at 11:59 am, Feb 12, 2018

APPROVED



212 S. Tryon Street

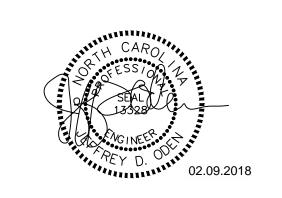
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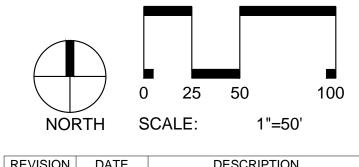


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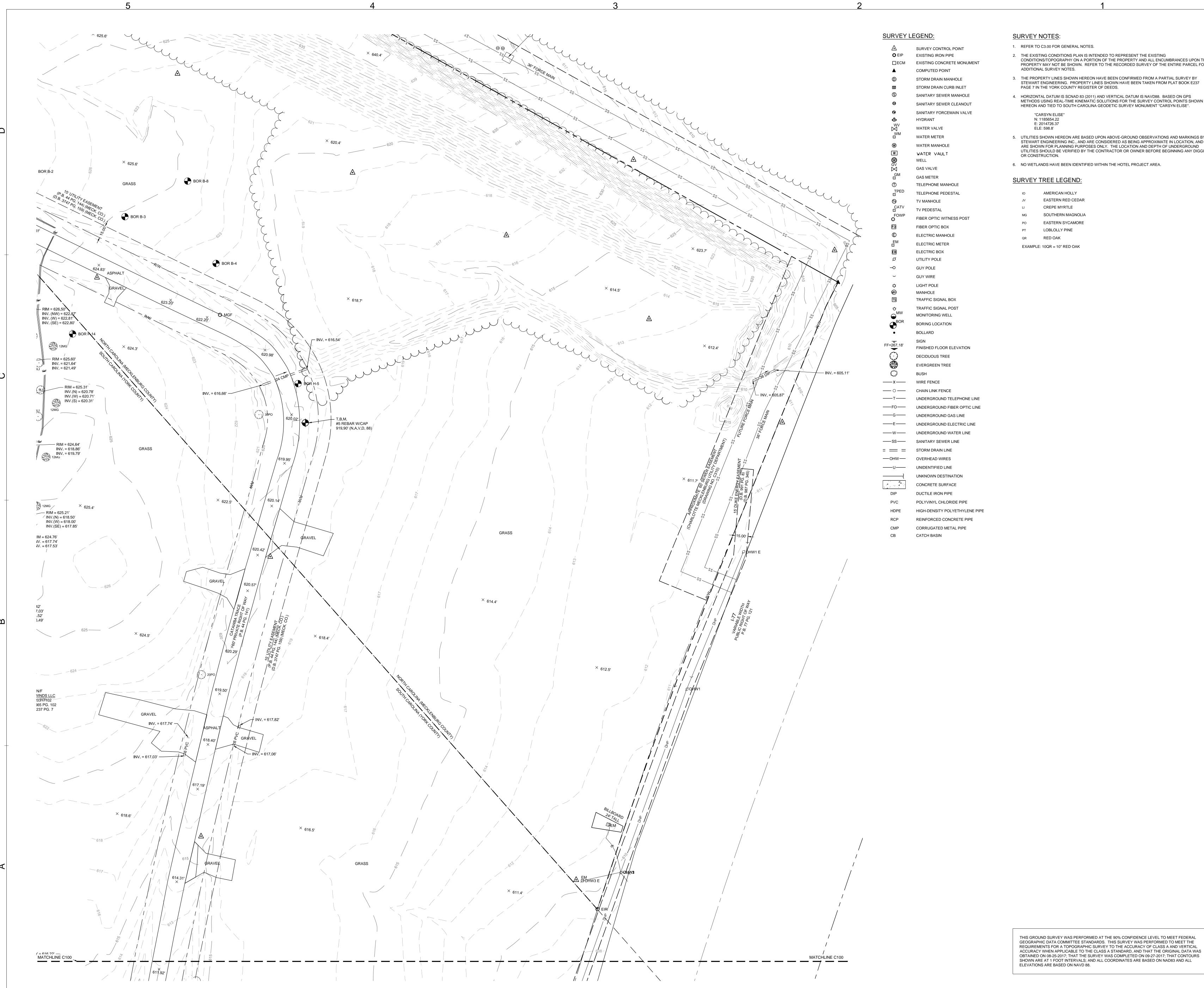




	KEVISION	DATE	DESCRIPTION			
	ADDENDA OR MODIFICATION					
	SD	09/08/2017	SCHEMATIC DESIGN			
	30% MI	10/24/2017	MARRIOTT DESIGN REVIEW			
	100% DD	11/06/2017	100% DD SUBMISSION			
	CD	01/08/2018				
	ISSUE	DATE	DESCRIPTION			
		FUI	LL SET ISSUES			
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	PROJECT N	Ο.	X1701			

NOJECT NO.	X17017.00
P.I.C.	TAD / JDC
PMGR.	TAI
PENGR.	JDO
DESIGN BY	DLS / MRI

COVER



2. THE EXISTING CONDITIONS PLAN IS INTENDED TO REPRESENT THE EXISTING CONDITIONS/TOPOGRAPHY ON A PORTION OF THE PROPERTY AND ALL ENCUMBRANCES UPON THE PROPERTY MAY NOT BE SHOWN. REFER TO THE RECORDED SURVEY OF THE ENTIRE PARCEL FOR ADDITIONAL SURVEY NOTES.

3. THE PROPERTY LINES SHOWN HEREON HAVE BEEN CONFIRMED FROM A PARTIAL SURVEY BY STEWART ENGINEERING. PROPERTY LINES SHOWN HAVE BEEN TAKEN FROM PLAT BOOK E237

PAGE 7 IN THE YORK COUNTY REGISTER OF DEEDS. 4. HORIZONTAL DATUM IS SCNAD 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 SOUTH CAROLINA GEODETIC SURVEY MONUMENT "CARSYN ELISE".

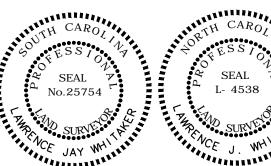
5. UTILITIES SHOWN HEREON ARE BASED UPON ABOVE-GROUND OBSERVATIONS AND MARKINGS BY STEWART ENGINEERING INC., AND ARE CONSIDERED AS BEING APPROXIMATE IN LOCATION, AND ARE SHOWN FOR PLANNING PURPOSES ONLY. THE LOCATION AND DEPTH OF UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE CONTRACTOR OR OWNER BEFORE BEGINNING ANY DIGGING

6. NO WETLANDS HAVE BEEN IDENTIFIED WITHIN THE HOTEL PROJECT AREA.

- AMERICAN HOLLY EASTERN RED CEDAR
- CREPE MYRTLE
- SOUTHERN MAGNOLIA
- EASTERN SYCAMORE LOBLOLLY PINE

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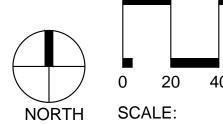
RICHMOND, VA

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SPRINGHILL **SUITES HOTEL**

14500 BEST DAY BOULEVARD CHARLOTTE, NC





REVISION DATE DESCRIPTION ADDENDA OR MODIFICATION SD 09/08/2017 SCHEMATIC DESIGN 30% MI 10/24/2017 MARRIOTT DESIGN REVIEW 100% DD | 11/06/2017 | 100% DD SUBMISSION

CD 01/08/2018

ISSUE DATE FULL SET ISSUES

PROJECT NO:

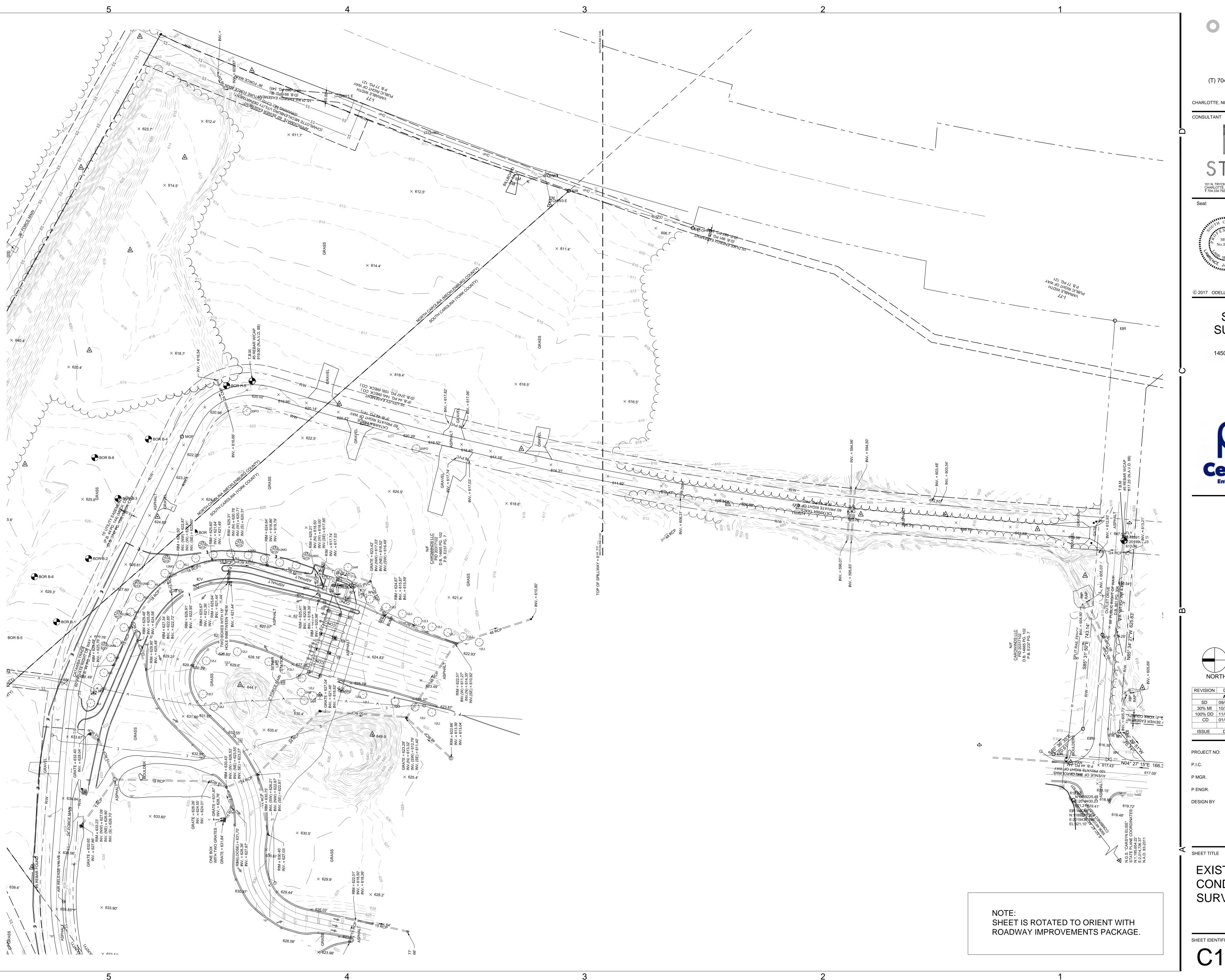
P ENGR. DLS / MRB

X17017.00

TAD / JDO

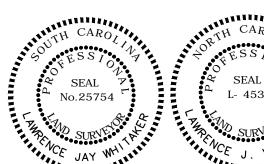
SHEET TITLE

EXISTING CONDITIONS SURVEY



CHARLOTTE, NC



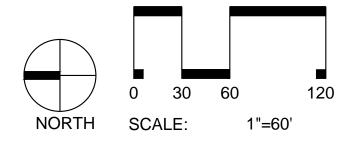


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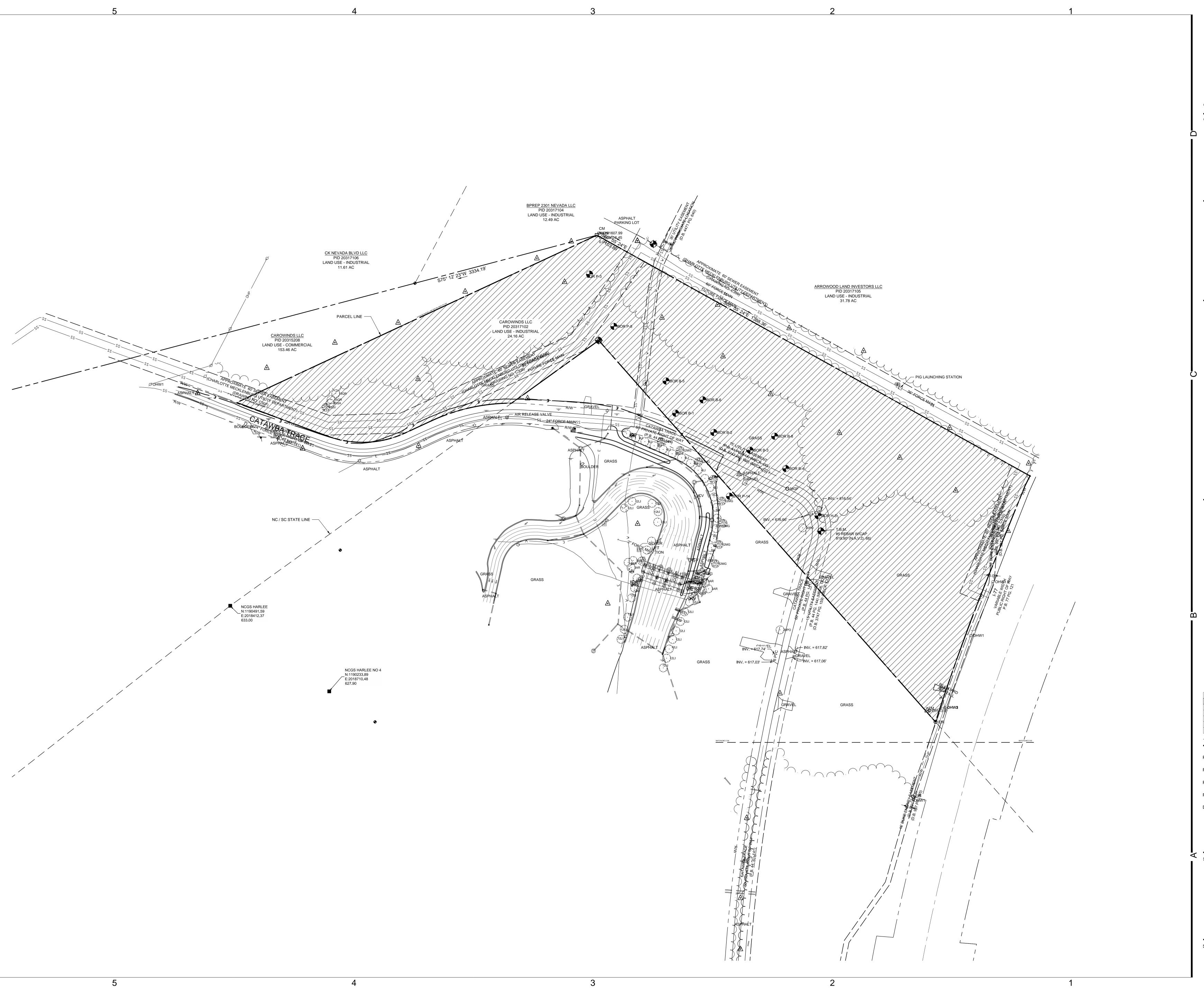


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FULL SET ISSUES

X17017.00 PROJECT NO:

SHEET TITLE

EXISTING CONDITIONS SURVEY

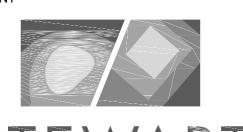


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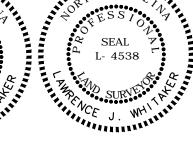


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101 N. TRYON ST., SUITE 1400 CHARLOTTE, NC 28202

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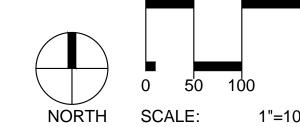


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PROJECT NO: X17017.00

P.I.C. TAD / JDO

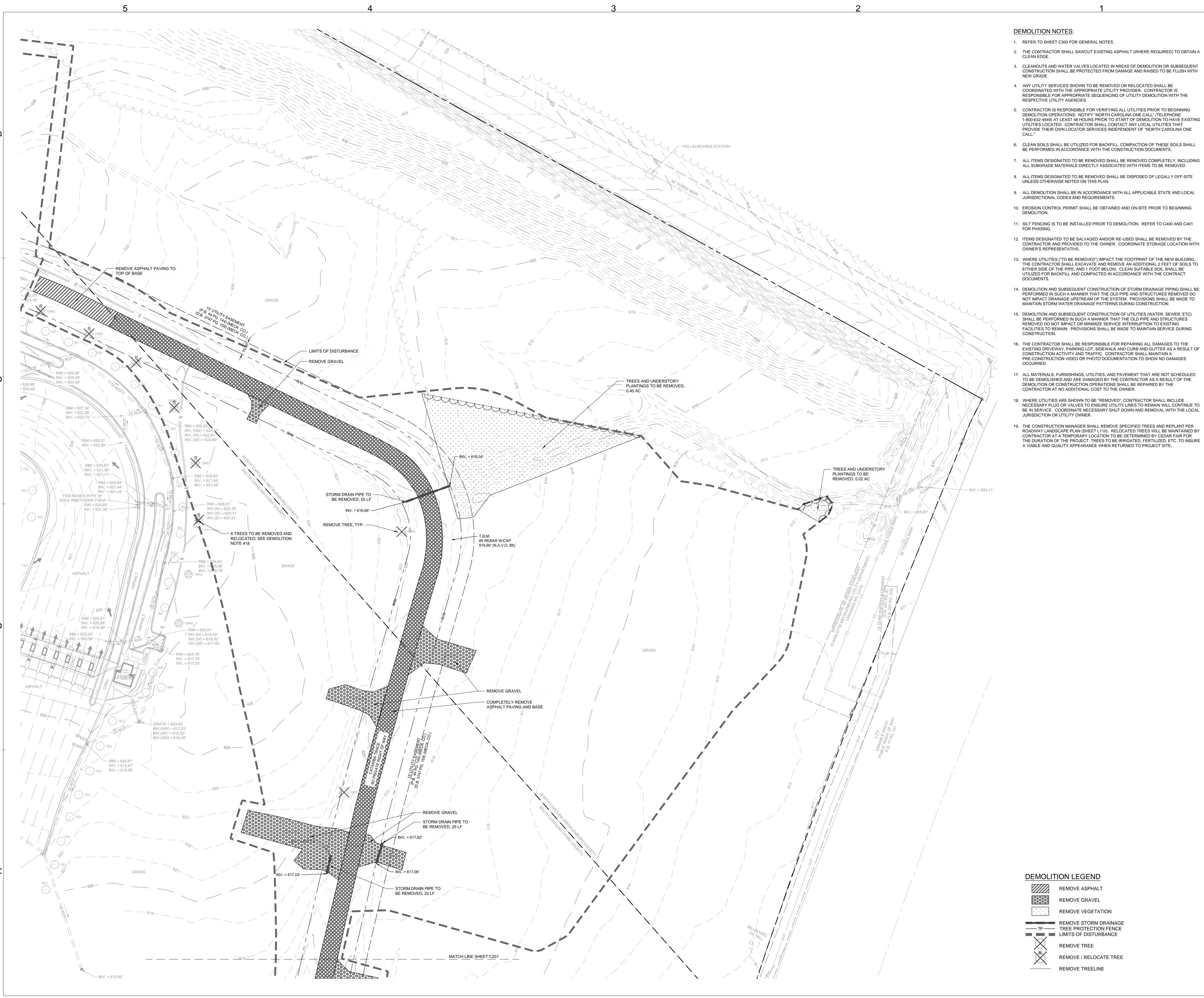
P MGR. TAD

P ENGR. JDC
DESIGN BY DLS / MRI

SHEET TITLE

EXISTING CONDITIONS SURVEY

SHEET IDENTIFIER



DEMOLITION NOTES:

1. REFER TO SHEET C300 FOR GENERAL NOTES.

2. THE CONTRACTOR SHALL SAWCUT EXISTING ASPHALT (WHERE REQUIRED) TO OBTAIN A

3. CLEANOUTS AND WATER VALVES LOCATED IN AREAS OF DEMOLITION OR SUBSEQUENT CONSTRUCTION SHALL BE PROTECTED FROM DAMAGE AND RAISED TO BE FLUSH WITH

4. ANY UTILITY SERVICES SHOWN TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY PROVIDER. CONTRACTOR IS RESPONSIBLE FOR APPROPRIATE SEQUENCING OF UTILITY DEMOLITION WITH THE RESPECTIVE UTILITY AGENCIES.

5. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES PRIOR TO BEGINNING DEMOLITION OPERATIONS. NOTIFY "NORTH CAROLINA ONE CALL" (TELEPHONE 1-800-632-4949) AT LEAST 48 HOURS PRIOR TO START OF DEMOLITION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT

6. CLEAN SOILS SHALL BE UTILIZED FOR BACKFILL. COMPACTION OF THESE SOILS SHALL BE PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.

7. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE REMOVED COMPLETELY, INCLUDING ALL SUBGRADE MATERIALS DIRECTLY ASSOCIATED WITH ITEMS TO BE REMOVED.

8. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE DISPOSED OF LEGALLY OFF-SITE UNLESS OTHERWISE NOTED ON THIS PLAN.

9. ALL DEMOLITION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL JURISDICTIONAL CODES AND REQUIREMENTS.

10. EROSION CONTROL PERMIT SHALL BE OBTAINED AND ON-SITE PRIOR TO BEGINNING

11. SILT FENCING IS TO BE INSTALLED PRIOR TO DEMOLITION. REFER TO C400 AND C401

CONTRACTOR AND PROVIDED TO THE OWNER. COORDINATE STORAGE LOCATION WITH OWNER'S REPRESENTATIVE. 13. WHERE UTILITIES ("TO BE REMOVED") IMPACT THE FOOTPRINT OF THE NEW BUILDING,

THE CONTRACTOR SHALL EXCAVATE AND REMOVE AN ADDITIONAL 2 FEET OF SOILS TO EITHER SIDE OF THE PIPE, AND 1 FOOT BELOW. CLEAN SUITABLE SOIL SHALL BE UTILIZED FOR BACKFILL AND COMPACTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

14. DEMOLITION AND SUBSEQUENT CONSTRUCTION OF STORM DRAINAGE PIPING SHALL BE PERFORMED IN SUCH A MANNER THAT THE OLD PIPE AND STRUCTURES REMOVED DO NOT IMPACT DRAINAGE UPSTREAM OF THE SYSTEM. PROVISIONS SHALL BE MADE TO MAINTAIN STORM WATER DRAINAGE PATTERNS DURING CONSTRUCTION.

15. DEMOLITION AND SUBSEQUENT CONSTRUCTION OF UTILITIES (WATER, SEWER, ETC) SHALL BE PERFORMED IN SUCH A MANNER THAT THE OLD PIPE AND STRUCTURES REMOVED DO NOT IMPACT OR MINIMIZE SERVICE INTERRUPTION TO EXISTING FACILITIES TO REMAIN. PROVISIONS SHALL BE MADE TO MAINTAIN SERVICE DURING

CONSTRUCTION ACTIVITY AND TRAFFIC. CONTRACTOR SHALL MAINTAIN A PRE-CONSTRUCTION VIDEO OR PHOTO DOCUMENTATION TO SHOW NO DAMAGES

17. ALL MATERIALS, FURNISHINGS, UTILITIES, AND PAVEMENT THAT ARE NOT SCHEDULED TO BE DEMOLISHED AND ARE DAMAGED BY THE CONTRACTOR AS A RESULT OF THE DEMOLITION OR CONSTRUCTION OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

18. WHERE UTILITIES ARE SHOWN TO BE "REMOVED", CONTRACTOR SHALL INCLUDE NECESSARY PLUG OR VALVES TO ENSURE UTILITY LINES TO REMAIN WILL CONTINUE TO BE IN SERVICE. COORDINATE NECESSARY SHUT DOWN AND REMOVAL WITH THE LOCAL

ROADWAY LANDSCAPE PLAN (SHEET L110). RELOCATED TREES WILL BE MAINTAINED BY CONTRACTOR AT A TEMPORARY LOCATION TO BE DETERMINED BY CEDAR FAIR FOR THE DURATION OF THE PROJECT. TREES TO BE IRRIGATED, FERTILIZED, ETC. TO INSURE A VIABLE AND QUALITY APPEARANCE WHEN RETURNED TO PROJECT SITE.

REMOVE ASPHALT

REMOVE GRAVEL

REMOVE TREE

REMOVE VEGETATION

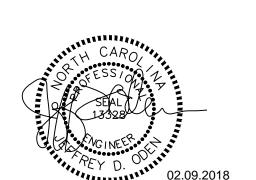
REMOVE / RELOCATE TREE

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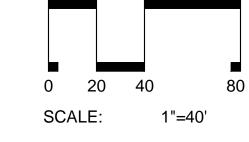
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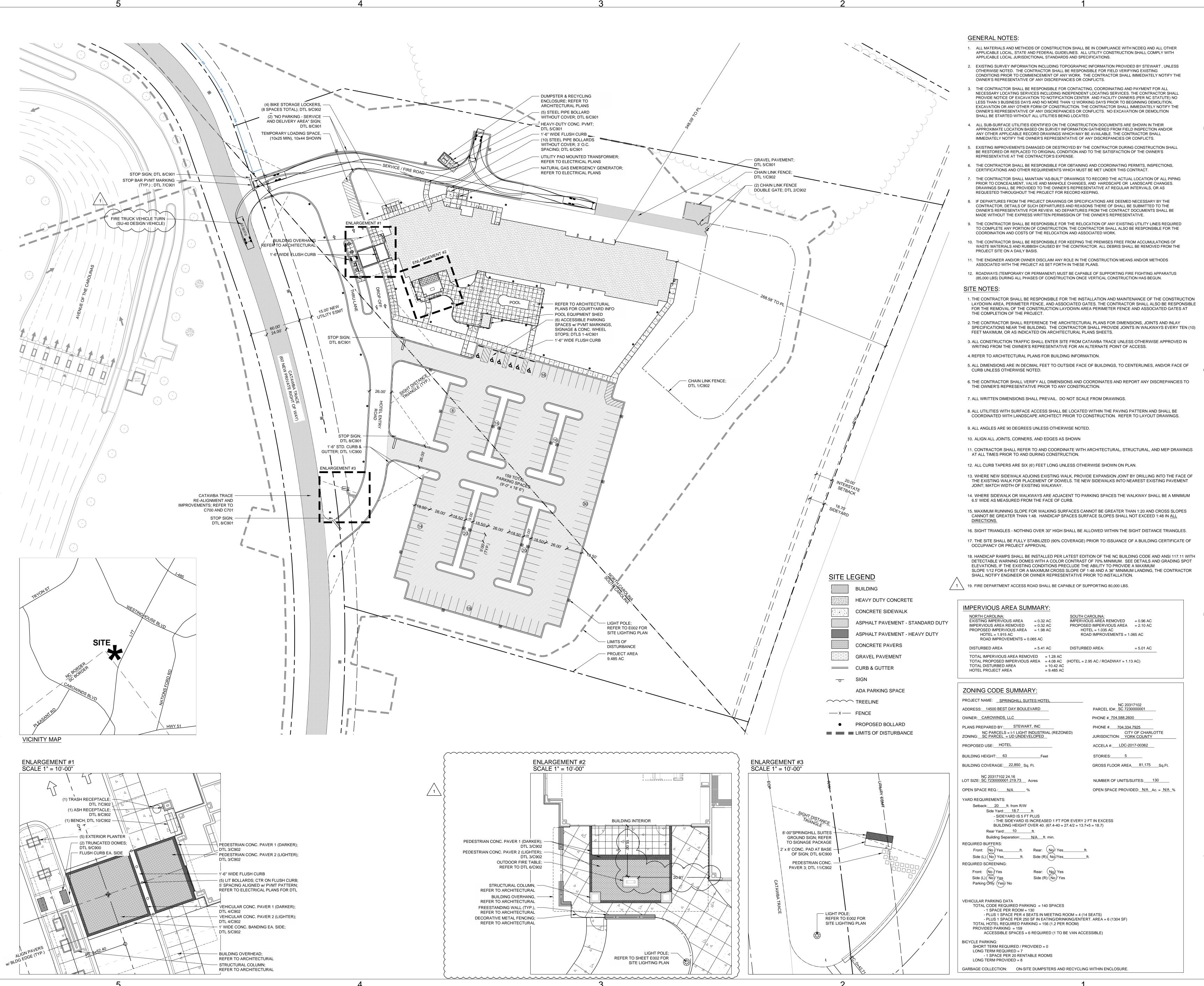
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PROJECT NO: X17017.00 P.I.C.

SHEET TITLE

DEMOLITION PLAN





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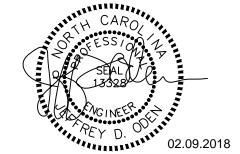
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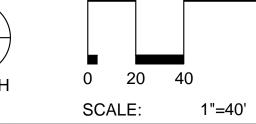
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 SCALE: 1"=40'

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 MARRIOTT DESIGN REVIEW

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 100% DD SUBMISSION

 CD
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 ACCELA/LUESA REVISIONS

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PROJECT NO:	X17017
P.I.C.	TAD / J
P MGR.	Т
P ENGR.	J
DESIGN BY	DLS / M

SHEET TITLE

SITE PLAN

SHEET IDENTIFIER

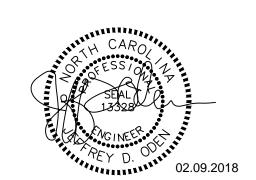


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SCALE:

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100% DD | 11/06/2017 | 100% DD SUBMISSION CD 01/08/2018 1 02/09/2018 ACCELA/LUESA REVISIONS ISSUE DATE FULL SET ISSUES

PROJECT NO: X17017.00 TAD / JDO P MGR. P ENGR.

DLS / MRB

SEDIMENTATION AND EROSION CONTROL PLAN PHASE 1

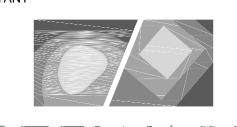


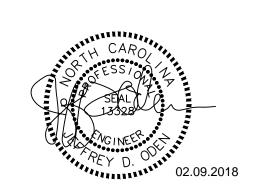


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TAD / JDO P ENGR.

SEDIMENTATION AND EROSION CONTROL PLAN PHASE 2

- 1. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING, IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
- 2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND
- 3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.

FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.

NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.

REMOVE MUD/SOIL FROM PAVEMENT. AS MAY BE REQUIRED.

4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE

EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO

- 5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- 6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY
- 7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C REG. 72-300 ET SEQ.
- 8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
- 9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
- 10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
- 11. A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS
- 12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
- 13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.

APPROVED OTHERWISE.

- 14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
- 15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).
- THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED: WASTEWATER FROM WASHOUT OF CONCRETE. UNLESS MANAGED BY AN APPROPRIATE CONTROL; WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT. FORM RELEASE OILS. CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS; FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE: AND SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
- 17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
- 18. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
- 19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS

SEEDBED PREPARATION:

- 1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS.
- 2. RIP THE ENTIRE AREA TO 6 INCHES DEPTH AND SPREAD TOPSOIL 3 INCHES DEEP.
- 3. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND
- 4. APPLY ALL AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE
- 5. CONTINUE TILLAGE UNTIL A WELL PULVERIZED, FIRM, REASONABLY UNIFORM 4 TO 6 INCHES DEEP SEEDBED IS
- 6. SEED ON A FRESHLY PREPARED SEED BED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK
- AFTER SEEDING. 7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
- 8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDING WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 50% DAMAGED, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
- 9. SEE LANDSCAPING PLANS FOR PERMANENT SEEDING, MULCHING, AND FERTILIZING RATES. ALL AREAS NOT DESIGNATED TO RECEIVE PLANTS SHALL BE SEEDED PER THE LANDSCAPING PLANS.

ADMIXTURES:

- AGRICULTURAL LIMESTONE: 2 TONS/ACRE
- FERTILIZER: 1,000 LBS/ACRE 10-10-10
- SUPERPHOSPHATE: 500 LBS/ACRE 20% ANALYSIS
- ANCHOR: ASPHALT EMULSION AT 300 GALS/ACRE

MULCH: 2 TONS/ACRE - SMALL GRAIN STRAW

SEEDING SCHEDULE

SHOULDERS SIDE DITCHES SLOPES (Max 3:1

AND TALL FESCUE

ADD ABRUZZI RYE

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: E (MAR 1 - JUN 30)
: E (MAR 1 - JUN 30) :
: E (MAR 1 - JUN 30) : E

CONSULT CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDED AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.

120 LBS/ACRE (NOV 1 - MAR 1)

***TEMPORARY - RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW OVER 12" IN HEIGHT BEFORE MOWING, OTHERWISE FESCUE MAY BE SHADED OUT.

EROSION CONTROL NOTES

UNTIL ALL CONSTRUCTION IS APPROVED.

ADJACENT PROPERTIES IS MINIMIZED.

GAUGE REQUIRED ON SITE.

IN LIFTS NOT GREATER THAN 6".

- REFER TO C3.00 FOR GENERAL NOTES.
- 2. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED IN BEST LOCATION BASED ON FIELD CONDITIONS.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF CONSTRUCTION.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF CONSTRUCTION ENTRANCES AS NECESSARY TO PREVENT THE TRACKING OF SEDIMENT OFF-SITE.
- 5. APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- 6. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR AND ESC SUPERVISOR
- 7. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE LIMITS OF DISTURBANCE (L.O.D.) SHALL BE PERMITTED. THE L.O.D. SHALL BE MAINTAINED BY THE ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
- 8. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO DRAINAGE SYSTEMS, AND
- 9. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G.,
- ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.). 10. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE DURATION OF THE PROJECT. COPIES OF THE WRITTEN INSPECTION REPORTS SHALL BE PROVIDED TO THE OWNER'S REPRESENTATIVE TWICE PER WEEK AND AFTER RAINS OF GREATER THAN 0.5". RAIN
- 11. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN FORTY EIGHT (48) HOURS FOLLOWING A STORM EVENT.
- 12. AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING

OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.

- 13. STABILIZED CONSTRUCTION ENTRANCES AND ROADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF
- THE PROJECT. 14. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE 2 - 3 INCHES THICK.
- 15. THE SURFACE OF AREAS SLOPES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL THAT ARE TO RECEIVE INTERIM FILL SHALL BE PLOWED, FURROWED, TILLED OR BROKEN UP PRIOR TO PLACING FILL SO THAT FILL MATERIAL WILL BOND WITH THE EXISTING SURFACE. INTERIM FILL SHALL BE PLACED AS SPECIFIED FOR PERMANENT FILLS AND
- 16. PROVIDE DUST CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, WETTING DOWN TO CONTROL DUST ON SITE, IN ORDER TO PREVENT ANNOYANCE/AND OR DAMAGE TO ADJACENT SITES. CALCIUM CHLORIDE OR ANY OTHER CHEMICAL MATERIAL MAY NOT BE USED ON SUBGRADES OF AREAS TO BE SEEDED OR PLANTED.
- 17. SEDIMENT LADEN RUNOFF FROM EXCAVATIONS SHALL NOT BE PUMPED DIRECTLY TO STORM DRAINAGE.
- 18. ANY AREAS OF EXPOSED SOILS THAT WILL NOT BE DISTURBED FOR FOURTEEN DAYS SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
- 19. INTERIM SLOPES MAY BE GRADED TO A MAXIMUM SLOPE OF 2:1 (HORIZONTAL: VERTICAL); CUT SLOPES SHALL BE LIMITED TO A MAXIMUM OF 1.5:1.
- 20. INSPECTOR REFERS TO LOCAL JURISDICTIONAL (NCDENR OR LOCAL) LAND QUALITY INSPECTOR OR HIS
- REPRESENTATIVE. FIELD INSPECTIONS MAY REQUIRE ADDITIONAL SEDIMENTATION AND EROSION CONTROL MEASURES AS DEEMED NECESSARY BY THE INSPECTOR.
- 21. CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES SHALL CONFORM TO THE STANDARDS SET FORTH IN THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.
- 22. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF EROSION CONTROL METHODS DURING CONSTRUCTION, AND THE OWNER IS RESPONSIBLE FOR MAINTENANCE OF ALL PERMANENT EROSION CONTROL METHODS AFTER CONSTRUCTION IS COMPLETE, IF ANY PERMANENT METHODS ARE REQUIRED.
- 23. NOTIFICATION OF LAND RESOURCES SEDIMENT AND EROSION CONTROL SELF-INSPECTION PROGRAM: THE PERSON RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES IS REQUIRED TO INSPECT THE PROJECT AFTER EACH PHASE OF THE PROJECT AND CONTINUED UNTIL PERMANENT GROUND COVER IS ESTABLISHED IN ACCORDANCE WITH NCGS 113A-54.1 AND 15A NCAC 4B.0131 TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. THE SELF-INSPECTION REPORT FORM IS AVAILABLE AS AN EXCEL SPREADSHEET FORM HTTP://WWW.DLR.ENR.STATE.NC.US/PAGES/SEDIMENTATION NEW.HTML

CITY OF CHARLOTTE SEQUENCE OF CONSTRUCTION ACTIVITIES

- 1. OBTAIN GRADING/EROSION CONTROL PLAN APPROVAL FROM THE CITY OF CHARLOTTE ENGINEERING DEPARTMENT.
- 2. DETERMINE AND MARK LIMITS OF DISTURBANCE.
- 3. SET UP AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH EROSION CONTROL INSPECTOR OF THE CITY ENGINEERING DEPARTMENT TO DISCUSS EROSION CONTROL MEASURES. FAILURE TO SCHEDULE SUCH CONFERENCE 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY IS A VIOLATION OF CHAPTER 17 OF THE CITY CODE AND IS SUBJECT TO FINE. ARCHITECT. ENGINEER AND CONTRACTOR SHALL BE PRESENT TO SATISFY REQUIREMENTS.
- 4. INSTALL CONSTRUCTION ENTRANCE, SILT FENCE, INLET PROTECTION, AND OTHER MEASURES AS SHOWN ON PLANS, CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES.
- 5. CALL FOR ON-SITE INSPECTION BY INSPECTOR. WHEN APPROVED, INSPECTOR ISSUES THE GRADING PERMIT AND CLEARING AND GRUBBING MAY BEGIN.
- 6. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES.
- 7. FOR PHASED EROSION CONTROL PLANS, CONTRACTOR SHALL MEET WITH EROSION CONTROL
- INSPECTOR PRIOR TO COMMENCING WITH EACH PHASE OF EROSION CONTROL MEASURES.

8. STABILIZE SITE AS AREAS ARE BROUGHT TO FINISHED GRADE.

- 9. COORDINATE WITH EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OF EROSION CONTROL
- 10. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE N. C. EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, U. S. DEPT. OF AGRICULTURE, CITY OF CHARLOTTE EROSION CONTROL ORDINANCE, AND THE CHARLOTTE LAND DEVELOPMENT STANDARDS MANUAL.
- 11. ALL STREETS SURROUNDING THE PROJECT SHALL BE KEPT CLEAN AT ALL TIMES.
- 12. PLACE TEMPORARY SEEDING ON ALL DISTURBED AREAS THAT WILL BE IDLE 14 DAYS OR
- 13. CLEAN SEDIMENT BASINS/TRAPS WHEN ONE-HALF FULL.
- 14. PERMANENT SURFACE STABILIZATION SHALL BE INSTALLED FOR ALL AREAS WITHIN 14 DAYS AFTER FINAL GRADE HAS BEEN REACHED. AS NECESSARY, FERTILIZE, WATER AND RESEED AS REQUIRED TO ESTABLISH AND MAINTAIN A VIGOROUS STAND OF GRASS.
- 15. AFTER COMPLETION OF CONSTRUCTION AND THE SITE IS STABILIZED, REMOVE ALL ACCUMULATED SEDIMENT FROM SEDIMENT TRAPPING MEASURES AND DISPOSE BY MEANS DEEMED ACCEPTABLE BY THE ENGINEER. SCHEDULE SITE INSPECTION. UPON APPROVAL BY THE EROSION CONTROL INSPECTOR, REMOVE TEMPORARY EROSION CONTROL MEASURES,
- 16. STORMWATER PERMIT INSPECTION REPORTS SHALL BE PERFORMED BY THE CONTRACTOR UNTIL NOTIFIED OTHERWISE BY THE EROSION CONTROL INSPECTOR.

CITY OF CHARLOTTE EROSION CONTROL NOTES:

SMOOTH AREA AND APPLY APPROPRIATE STABILIZATION.

- 1. ALL "STD." NUMBERS REFER TO THE CHARLOTTE LAND DEVELOPMENT STANDARDS MANUAL.
- 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/COUNTY EROSION 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/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
- ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) 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. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE CITY ENGINEERING DEPARTMENT.
- 7. SLOPES SHALL BE GRADED NO STEEPER THAN 2:1. FILL SLOPES GREATER THAN 10' REQUIRE ADEQUATE
- TERRACING (CLDS 30.16) 8. A GRADING PLAN MUST BE SUBMITTED FOR ANY LOT GRADING EXCEEDING ONE ACRE THAT WAS NOT
- PREVIOUSLY APPROVED. 9. DRIVEWAY PERMIT FOR CONSTRUCTION ENTRANCES IN NCDOT RIGHT OF WAY MUST BE PRESENTED AT

SEDIMENT BASIN DECOMMISSIONING NOTES

PRE-CONSTRUCTION MEETING.

- 1. CALL FOR AN ON-SITE DETERMINATION/MEETING WHEN REQUESTING TO DECOMMISSION/PHASE OUT A
- TEMPORARY SEDIMENT BASIN/TRAP. 2. DETERMINATION CAN ONLY BE MADE BY THE INSPECTOR OR HIS/HER DESIGNEE.
- ONCE IT HAS BEEN AGREED THAT THE TEMPORARY SEDIMENT BASIN/TRAP CAN COME OUT, IT MUST BE MARKED AND INITIALED BY THE MECKLENBURG COUNTY LUESA WATER INSPECTOR ON THE APPROVED SET OF EROSION
- 4. IF SEDIMENT BASIN HAS WATER IN IT, THE WATER MUST BE PUMPED OUT FROM THE SURFACE INTO A FILTER BAG
- ON A LEVEL AREA FREE OF DEBRIS OR ANOTHER APPROVED METHOD AT NON-EROSIVE PROPERTIES. 5. REMOVE SKIMMER AND PLUG ANY HOLES IN THE RISER, REMOVE ALL BAFFLE MATERIALS.
- 6. IF THERE IS A LOT OF SEDIMENT/SILT IN BOTTOM OF THE BASIN AND MUST BE HAULED OFF, MIX WITH DRY
- MATERIAL OR SET ASIDE TO DRY THEN HAUL OFF. 7. FILL OR CONVERT BASIN TO THE APPROVED ELEVATION OR PRODUCT ON THE APPROVED PLANS.
- 8. AFTER FINAL GRADING HAS BEEN COMPLETED, THE AREA MUST BE STABILIZED WITH LIME, SEED, FERTILIZER, STRAW AND TACK ACCORDING TO THE SEEDING SCHEDULE SHOWN ON THE APPROVED PLANS. SEEDING MUST BE COMPLETED WITHIN 7 DAYS OF GRADING ON SLOPES STEEPER THAN 3:1 AND 14 DAYS FOR ALL OTHERS.



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CHARLOTTE, NC RICHMOND, VA

CONSULTANT





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SEDIMENTATION AND EROSION CONTROL NOTES



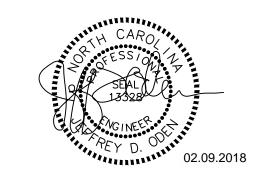


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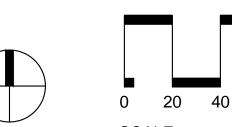


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SPRINGHILL SUITES HOTEL

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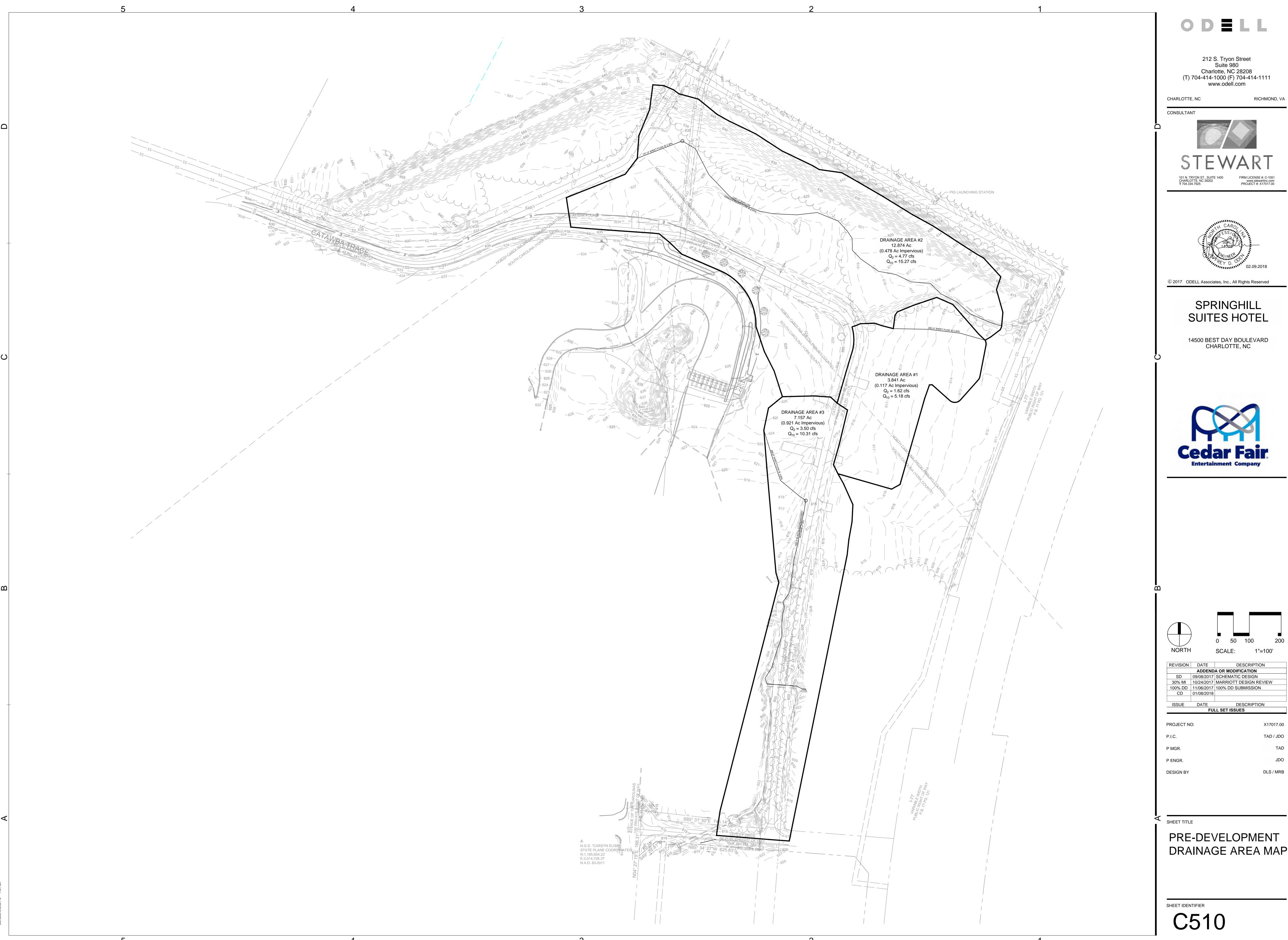
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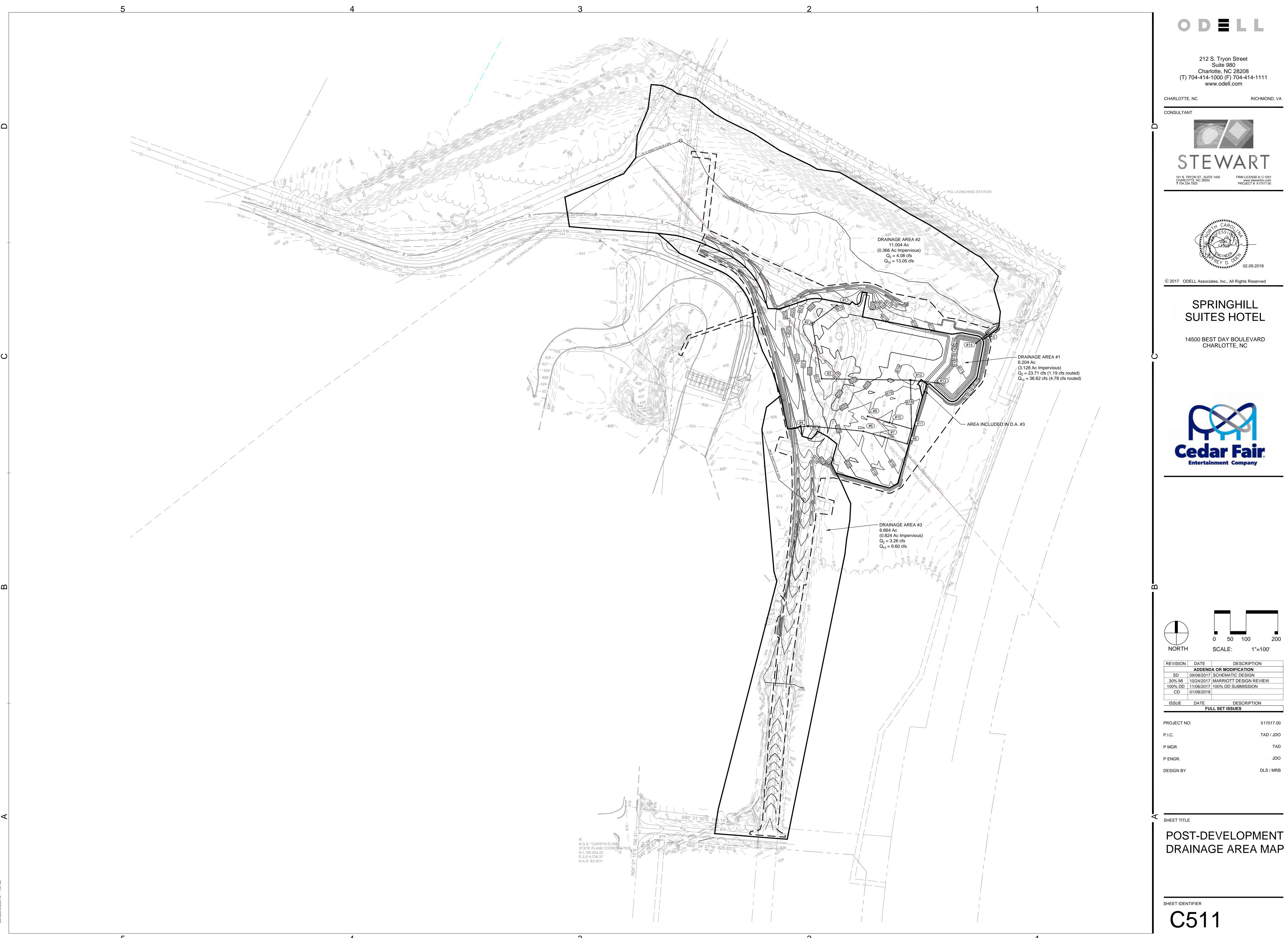
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SHEET TITLE

GRADING PLAN



DRAINAGE AREA MAP

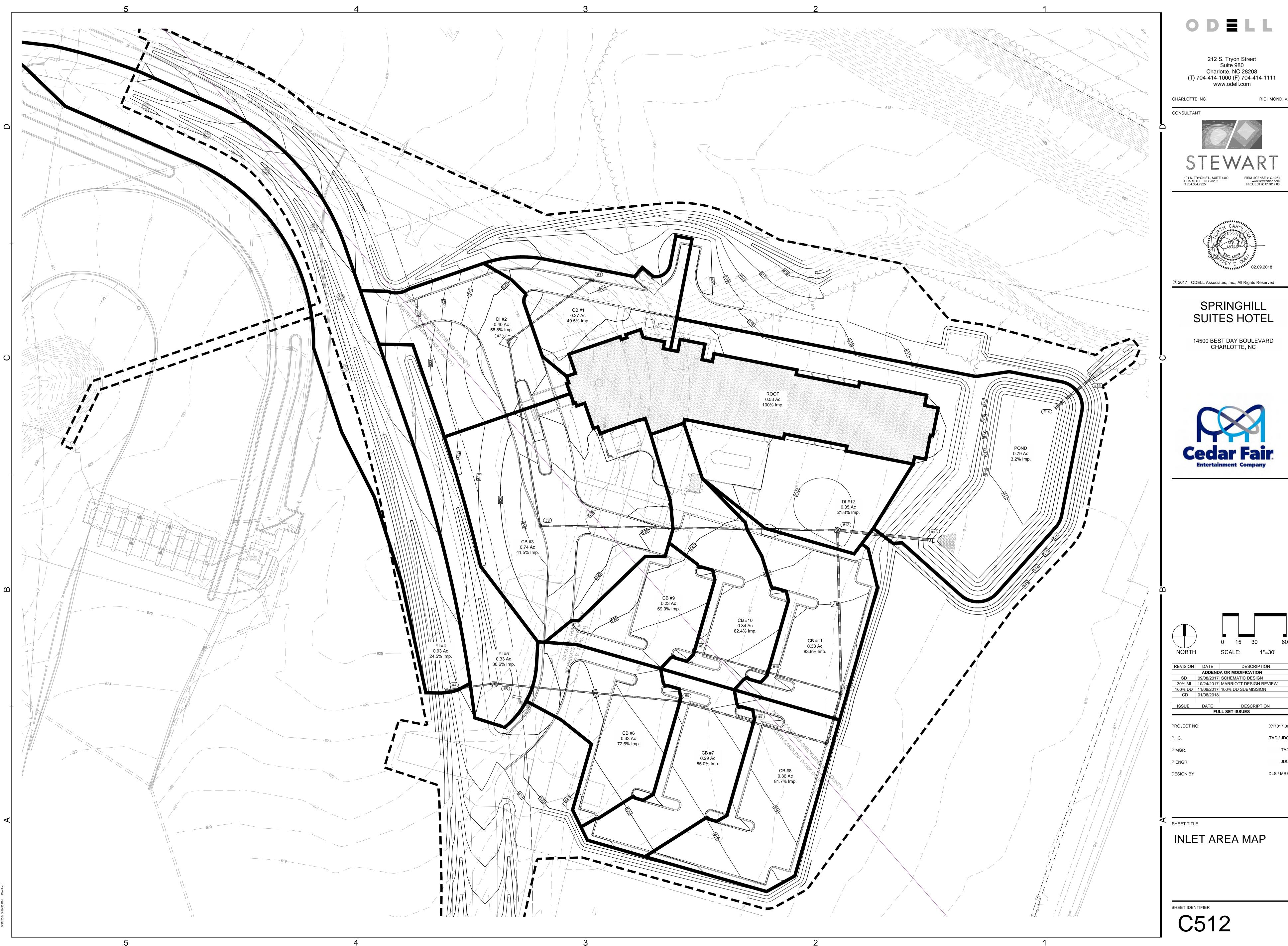




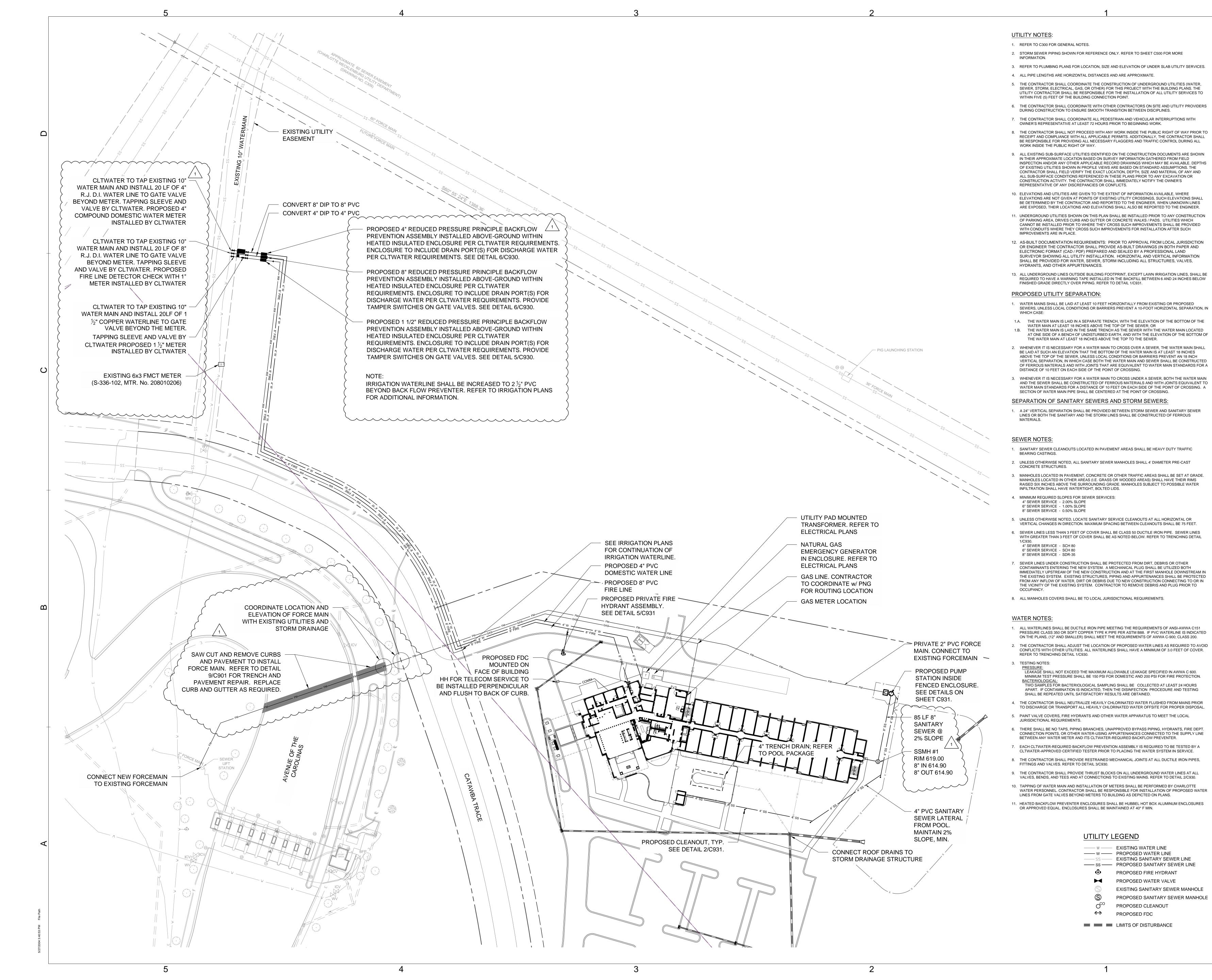
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DRAINAGE AREA MAP



TAD / JDO





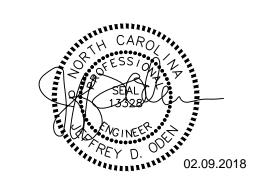
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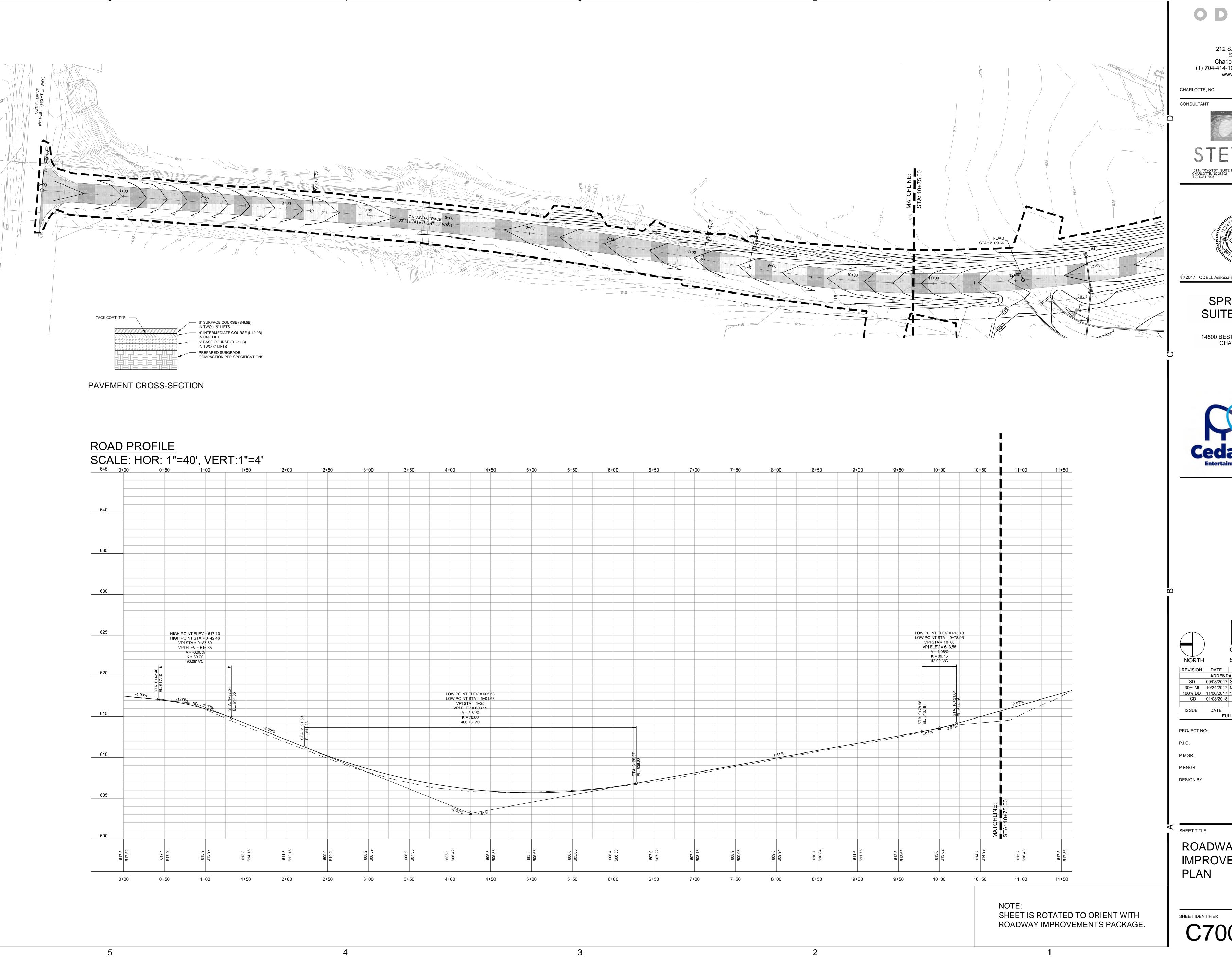
SHEET TITLE

PROPOSED FIRE HYDRANT PROPOSED WATER VALVE

PROPOSED CLEANOUT

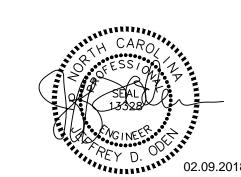
PROPOSED FDC

EXISTING SANITARY SEWER MANHOLE PROPOSED SANITARY SEWER MANHOLE UTILITY PLAN



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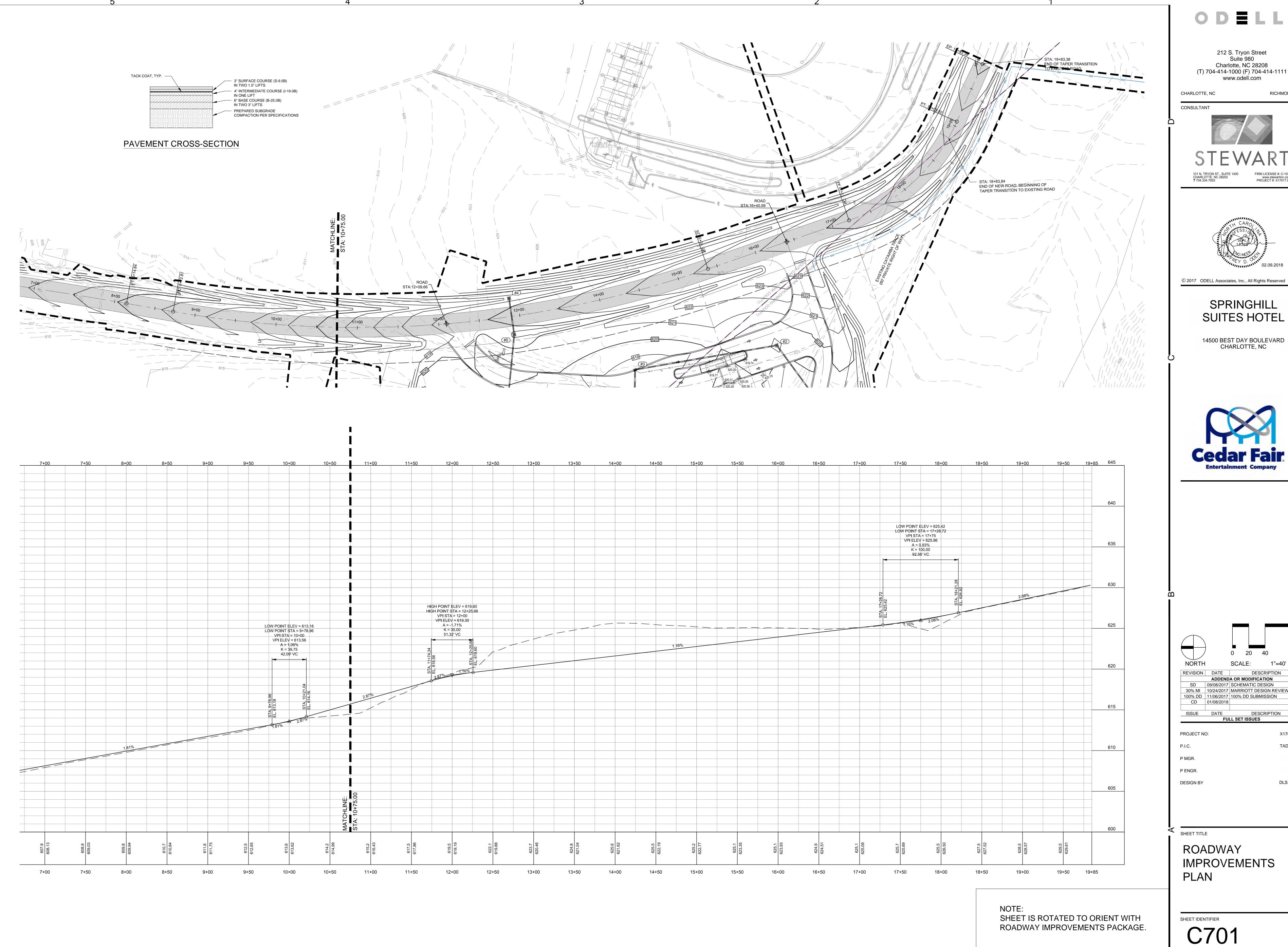
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ROADWAY **IMPROVEMENTS** PLAN



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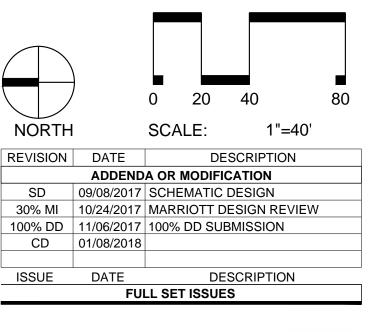
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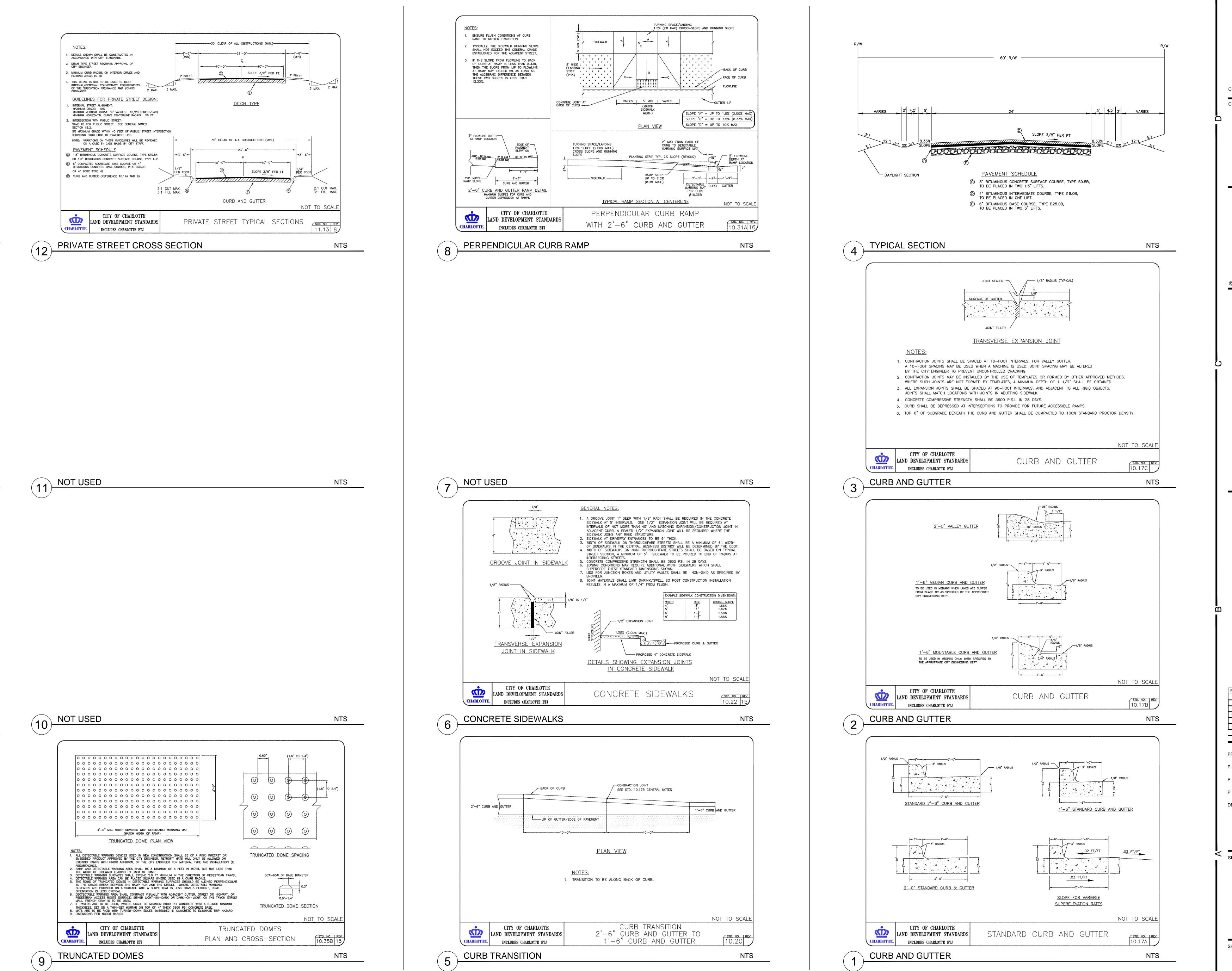
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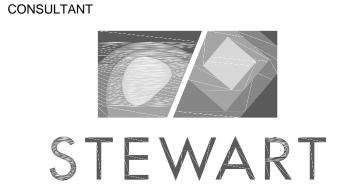
ROADWAY **IMPROVEMENTS**



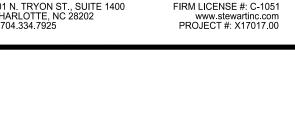
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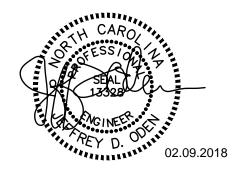
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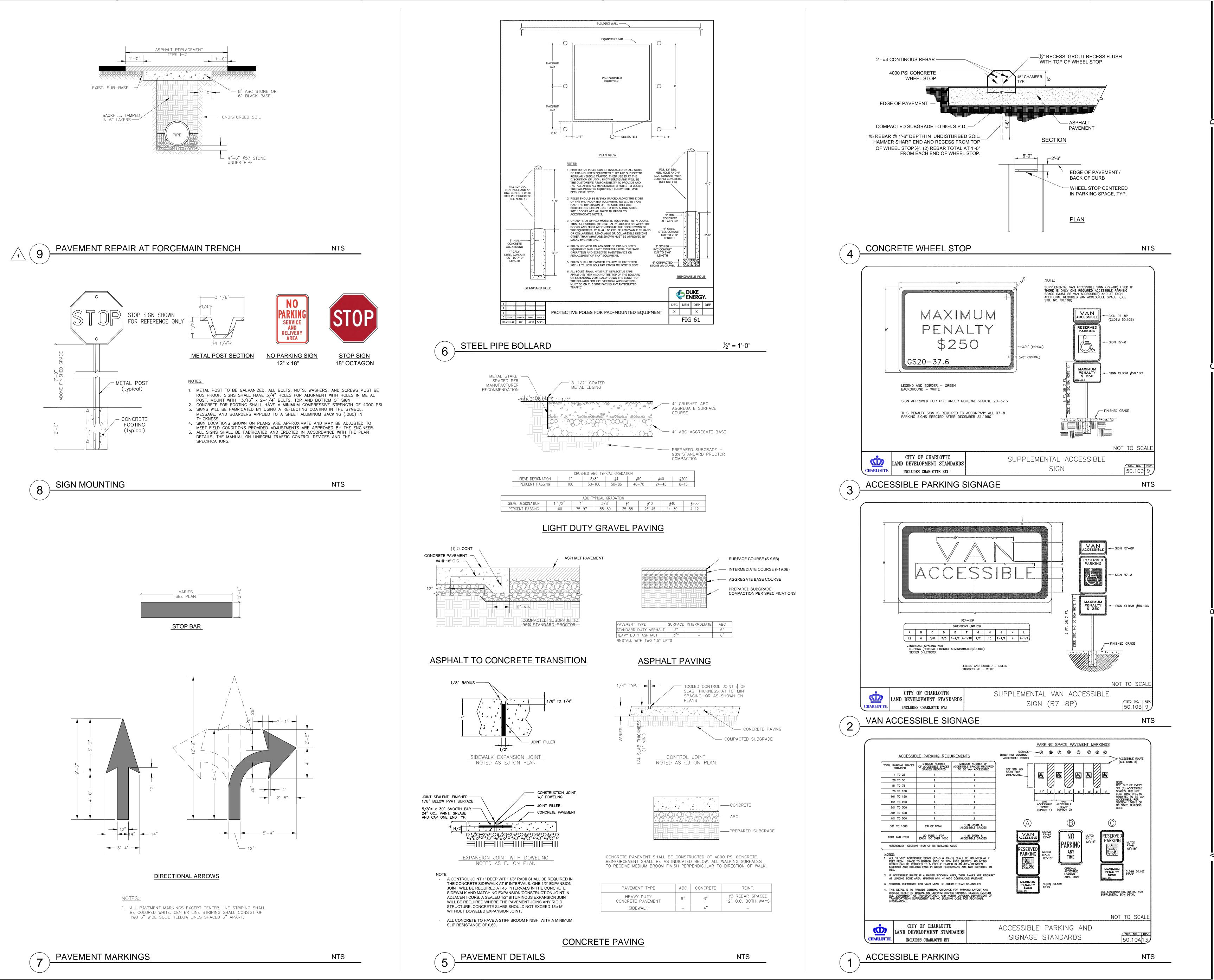
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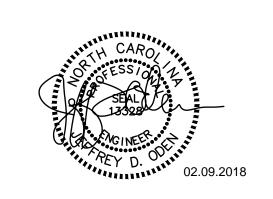
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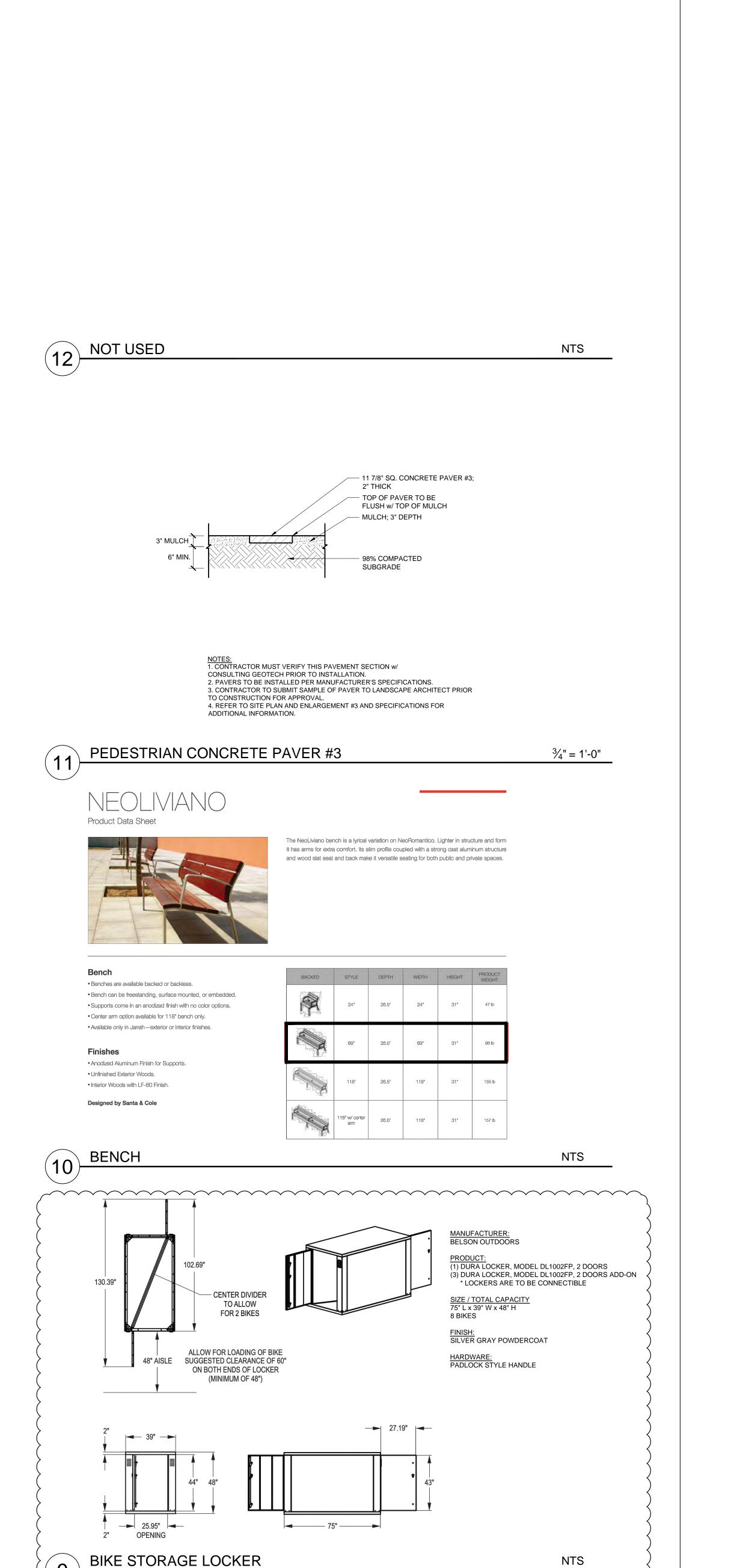
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SHEET TITLE

SITE DETAILS

SHEET IDENTIFIER







Ash ums should be discreet. Grenadier proves they can also be distinctive. The Grenadier ash urn from Landscape Forms is simple in design, trim in appearance, and efficient in function. Grenadier stands at attention in highly visible places but integrates seamlessly with commonly used architectural elements and materials so it doesn't call attention to itself. Its fully enclosed housing extinguishes and hides unsightly litter and eliminates cigarette odor.

Grenadier

 Grenadier is constructed of cast and extruded aluminum. Available as a wall mount, freestanding or removable unit. • Removable option recommended in unprotected areas. • The cast base is welded to the support post on freestanding/removable as

 The wall mount and removable plate assemblies are made of stainless steel. • Pin key opens top for emptying; unlocks unit from wall mount plate or removable stand. • The freestanding/removable models have a capacity of 1% gallons, while the wall mount capacity is ½ gallon.

• All metal is finished with Landscape Forms' proprietary Pangard II® polyester powdercoat, a hard yet flexible finish that resists rusting, chipping, peeling,

STYLE DEPTH WOTH HEIGHT PROD

Finishes

and fading.

Call for standard color chart.





Poe Litter Receptacle Heavy duty construction (Cast and extruded aluminum).

 Litter base is cast iron for stability. All units are 34 gallon capacity. · Side opening style may be specified with signage to designate collection of recyclables or waste. Choose slot, 5" diameter or standard opening Black polyethylene liner ships with each unit. Units feature hinged side door for easy emptying.

 With or without lock. Shipped with freestanding glides. Surface mount holes provided in base. • Recycling litter signage is available with standard wording options, available on landscapeforms.com Custom wording available for an upcl Poe ships fully assembled.

	STYLE	DEPTH	WIDTH	HEGHT	PRODUCT
tion g.	side opening	29"	29"	44"	189 lb
•	side opening 5" hole	29"	29"	44"	195 lb
ocharge.	side opening 5" slot	29"	29"	44"	195 lb
	top opening	29"	29"	39"	181 lb

TRASH RECEPTACLE



· Handcrafted from heat-resistant glass fiber reinfarced multistep finishing process captures the texture and enig. of natural limestone; no two are exactly alike. Like natural stone, it will develop a patina when left outdoors: Recessed glides allow for proper leveling of the table Match-lit burner system with adjustable flame control Includes decorative black lava rock

Attaches to a natural gas source

30" connector hose included

Clean burning

Rated at 65,000 BTUs Some assembly required For outdoor use only?
To ensure and operation followincludes instructions May exhibit spetting and halfline spacks due to exposure to the elements; scratches may appear due to usage Avoid letting water stand on the surface

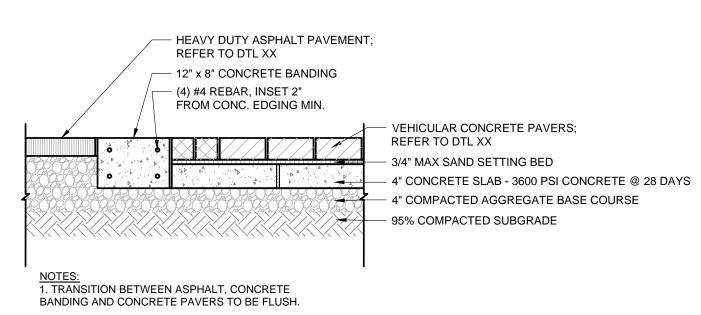
Sur Last " custom-fit outdoor covers also available (sokt

DIMENSIONS 56°W x 36°D x 1410°H Weight; 475 lbs. Pallet and Packaging: 50 lbs.

separately)

OUTDOOR FIRE TABLE

A STATE OF THE PARTY OF THE PAR



CONCRETE PAVER BANDING

NTS

³/₄" = 1'-0"

- 1/2" EXPANSION JOINT, 25' O.C. MAX COMPRESSIBLE FILLER & PREFORMED NEOPRENE COMPRESSIVE SEAL - 3/8" GROUT JOINTS - VEHICULAR CONCRETE PAVERS. (SEE SITE PLAN VEH. PAVER 1 VEH. PAVER 2 ENLARGEMENTS FOR PATTERN) (DARKER AT (LIGHTER EDGES) INTERIOR) - 3/4" MAX. MORTAR SETTING BED - 6" CONCRETE SLAB - 3600 PSI CONCRETE @ 28 DAYS 6"X6" 10 WWM w/ 3" MIN COVER STOP WWM 2" FROM CONSTRUCTION JOINTS - 6" COMPACTED AGGREGATE BASE COURSE - 98% COMPACTED SUBGRADE BASIS OF DESIGN VEH. PAVER 1: 3 5/8" x 2 1/4" x 7 5/8", DARK TONE / ROUGH FINISH

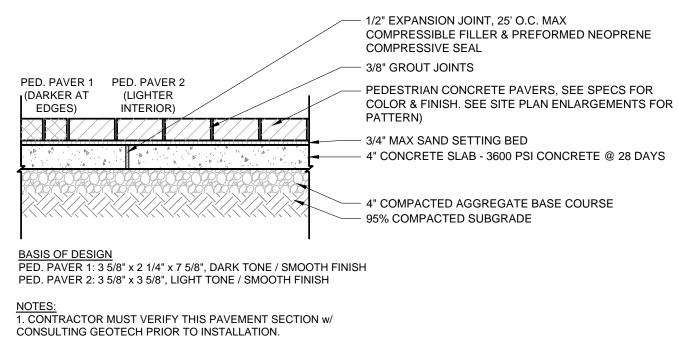
NOTES:

1. CONTRACTOR MUST VERIFY THIS PAVEMENT SECTION W/
CONSULTING GEOTECH PRIOR TO INSTALLATION. 2. PAVERS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. 3. CONTRACTOR TO SUBMIT SAMPLE OF PAVER TO LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION FOR APPROVAL. 4. REFER TO SITE PLAN AND ENLARGEMENTS FOR ADDITIONAL INFORMATION.

VEH. PAVER 2: 3 5/8" x 3 5/8", LIGHT TONE / ROUGH FINISH

VEHICULAR CONCRETE PAVER

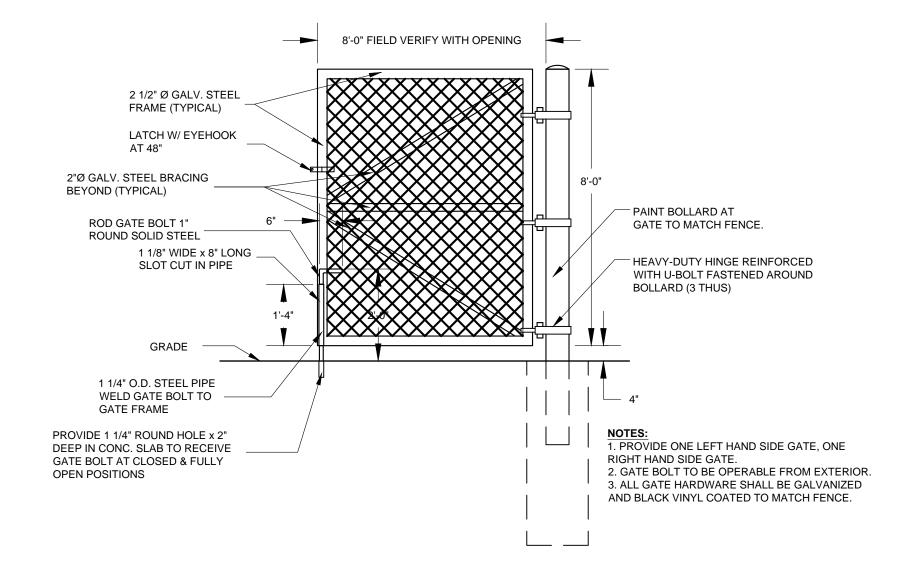
 $\frac{3}{4}$ " = 1'-0"

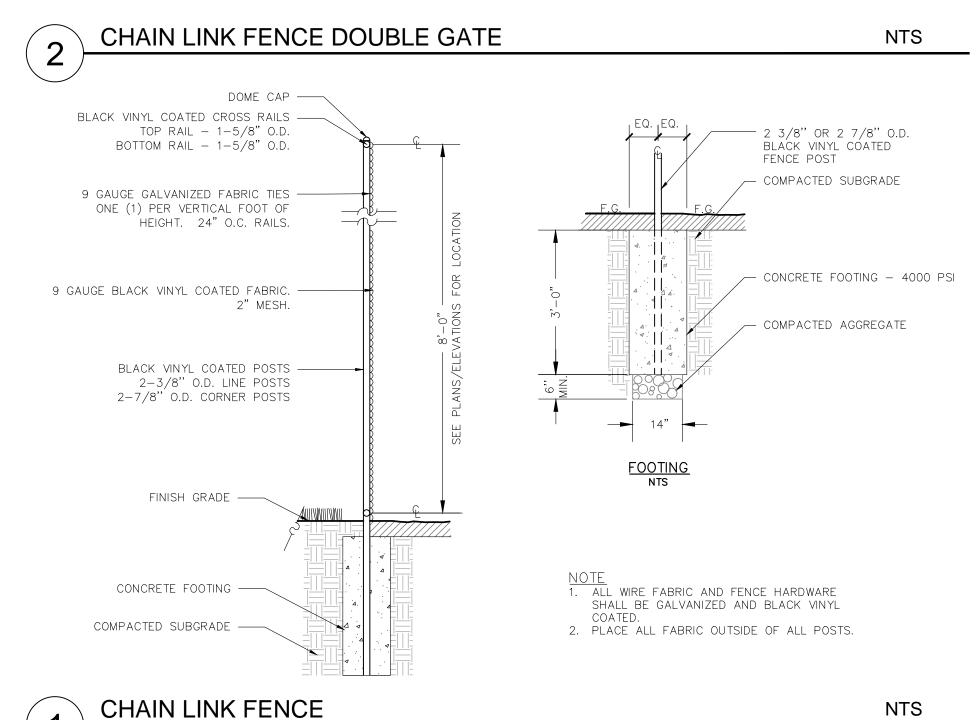


2. PAVERS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. 3. CONTRACTOR TO SUBMIT SAMPLE OF PAVER TO LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION FOR APPROVAL. 4. REFER TO SITE PLAN AND ENLARGEMENTS #1 / #2 AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

PEDESTRIAN CONCRETE PAVER #1 AND #2

 $\frac{3}{4}$ " = 1'-0"





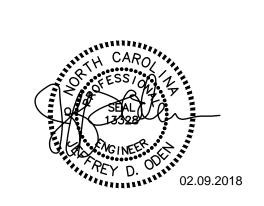
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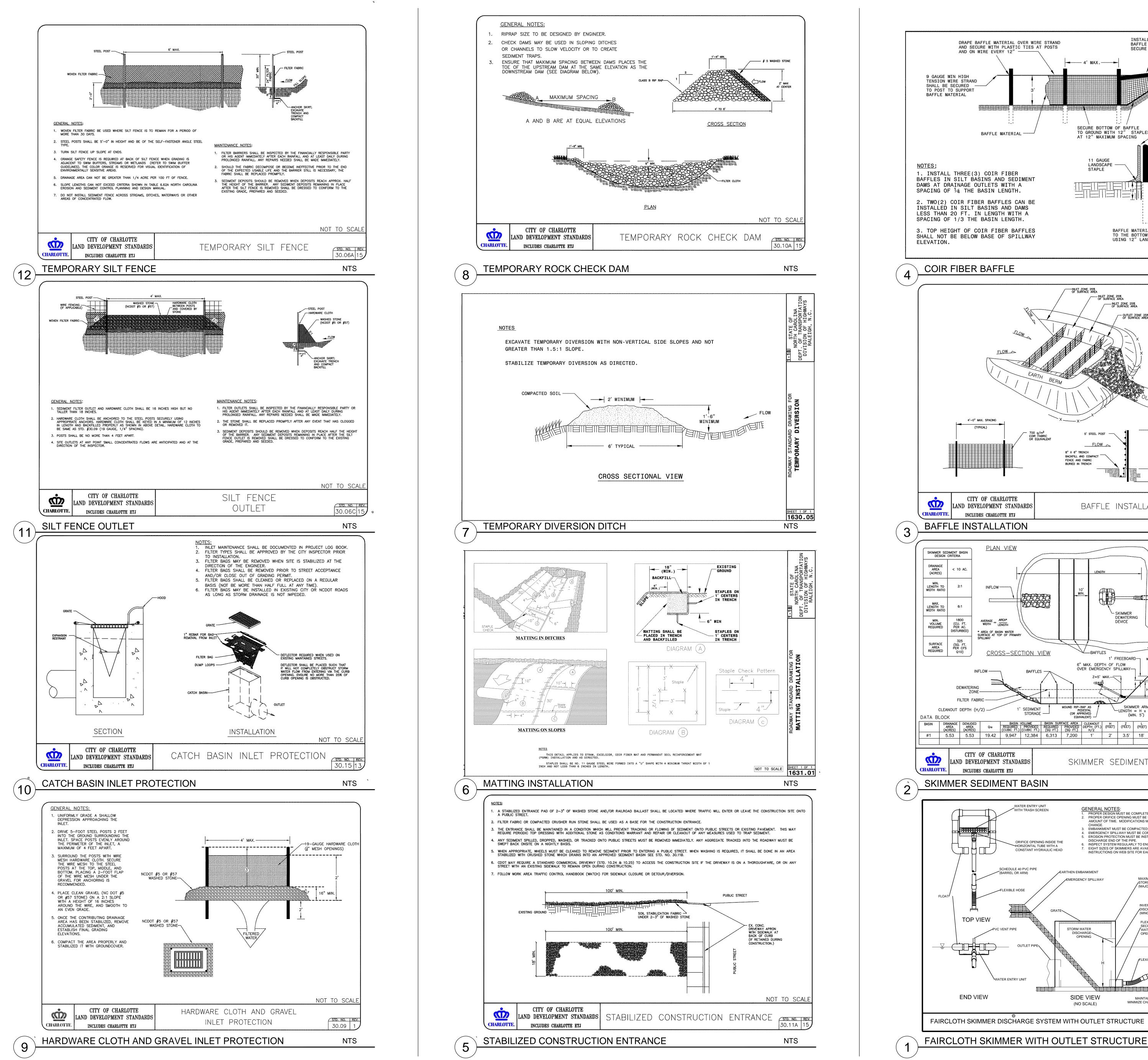


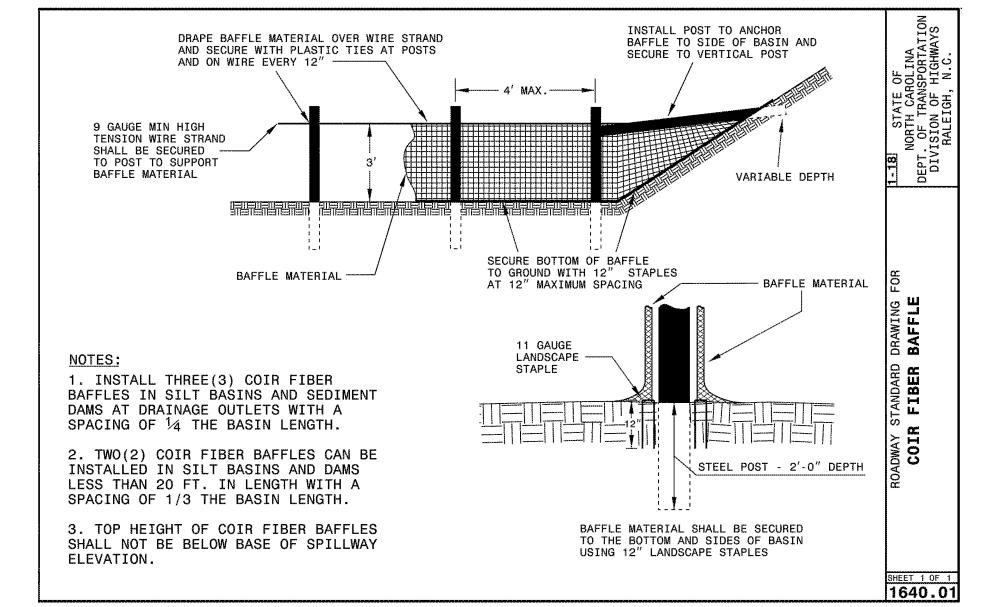
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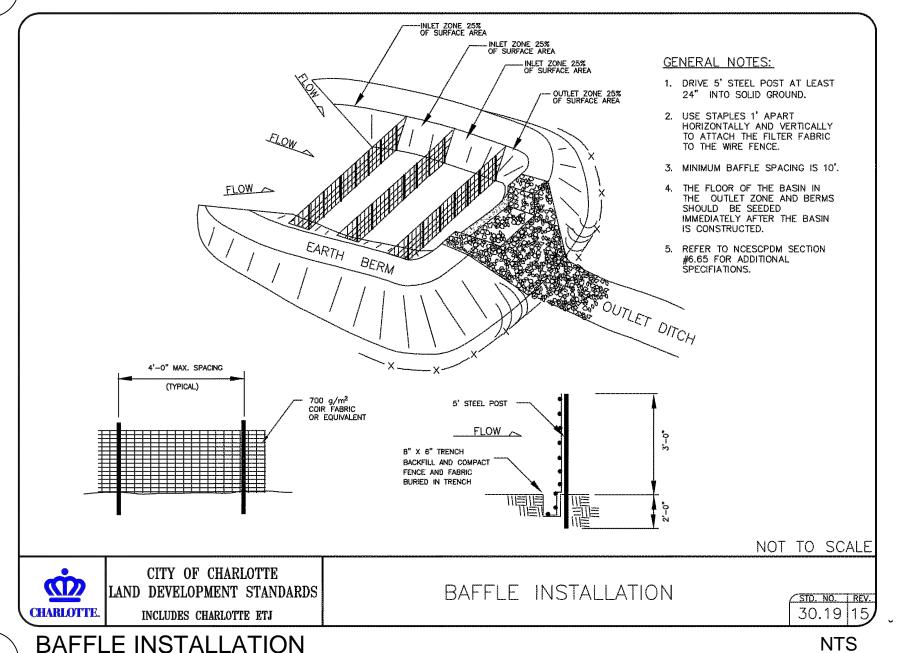
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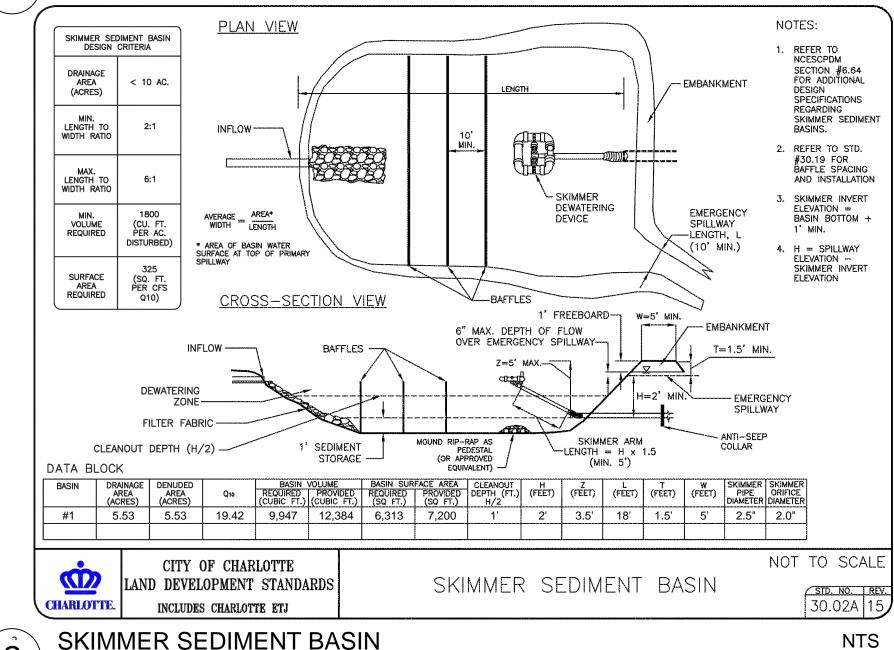
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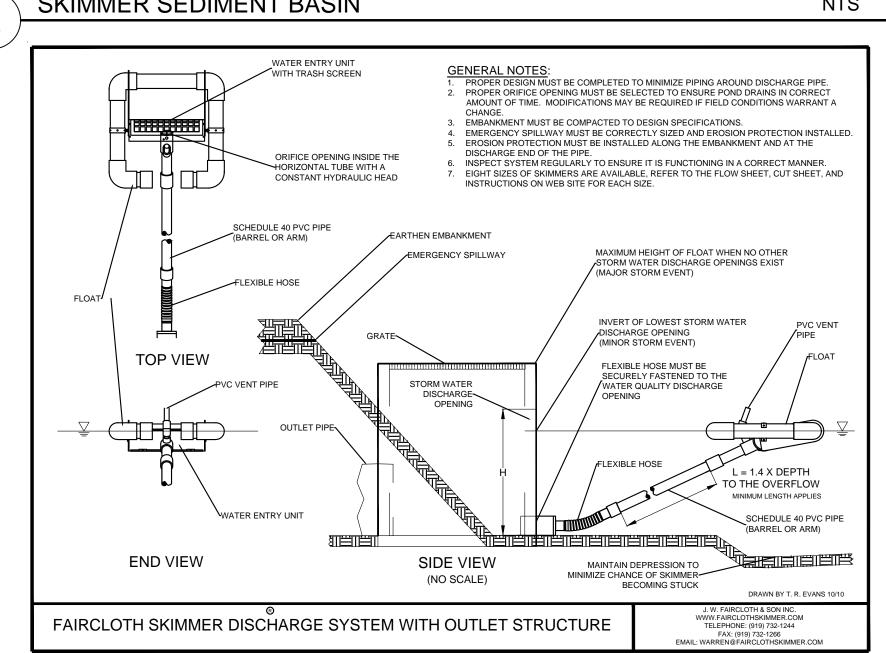
SITE DETAILS



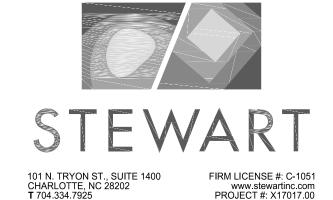




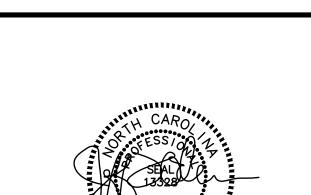




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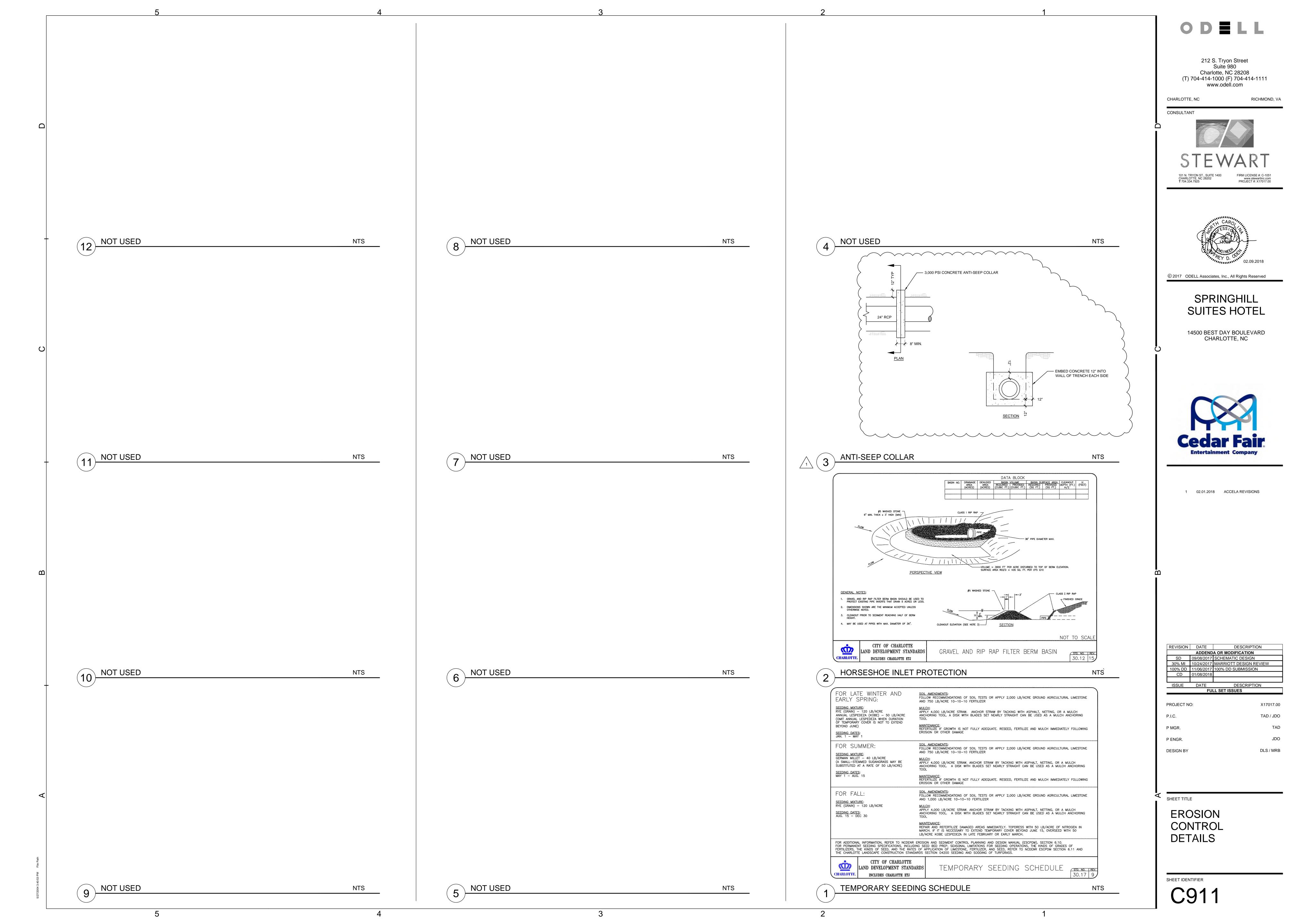
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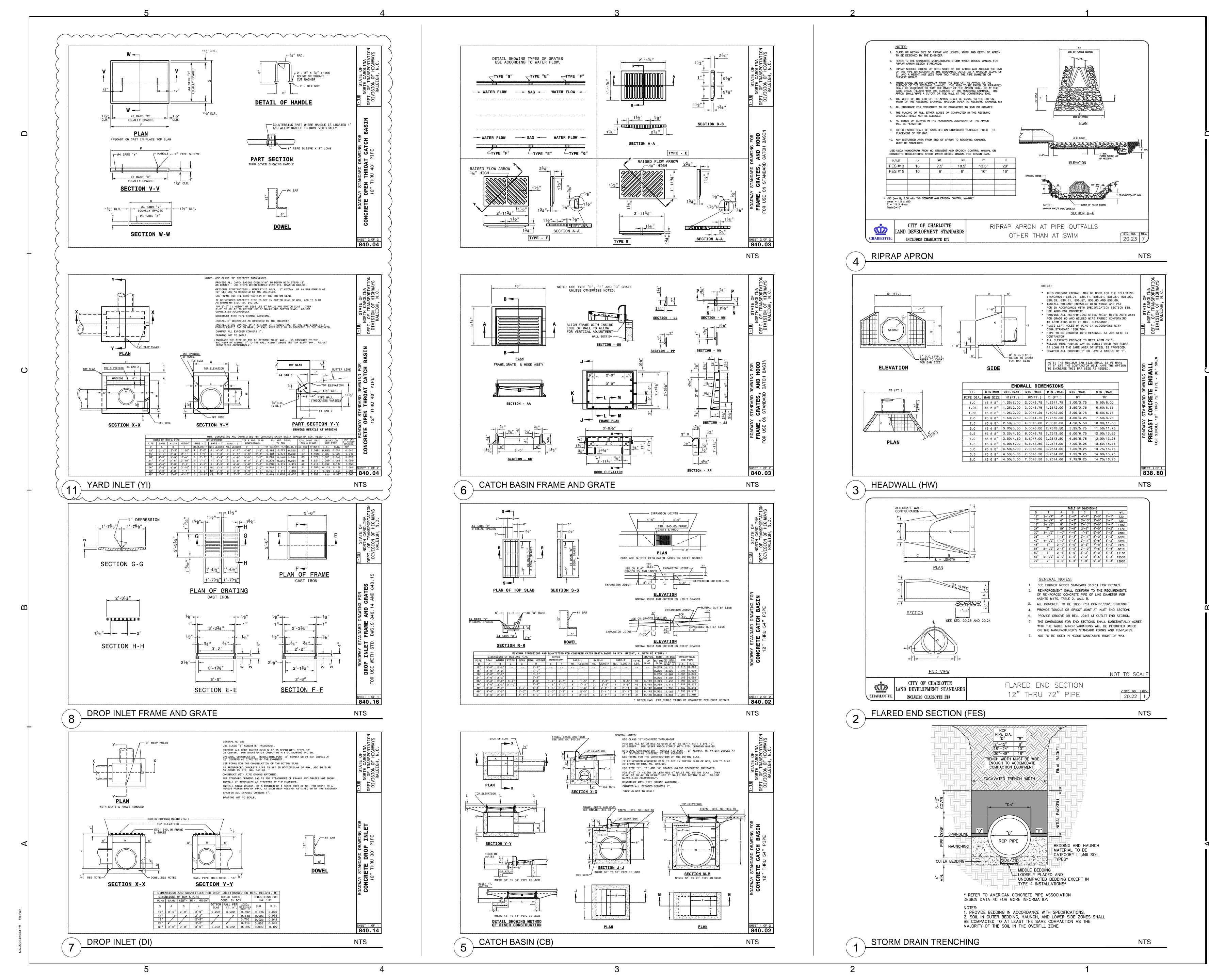
SHEET TITLE

EROSION CONTROL **DETAILS**

SHEET IDENTIFIER

NTS





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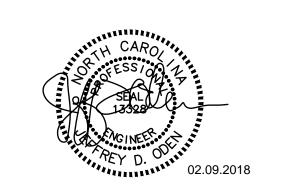
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P.I.C. TAD / JDO

P MGR. TAD

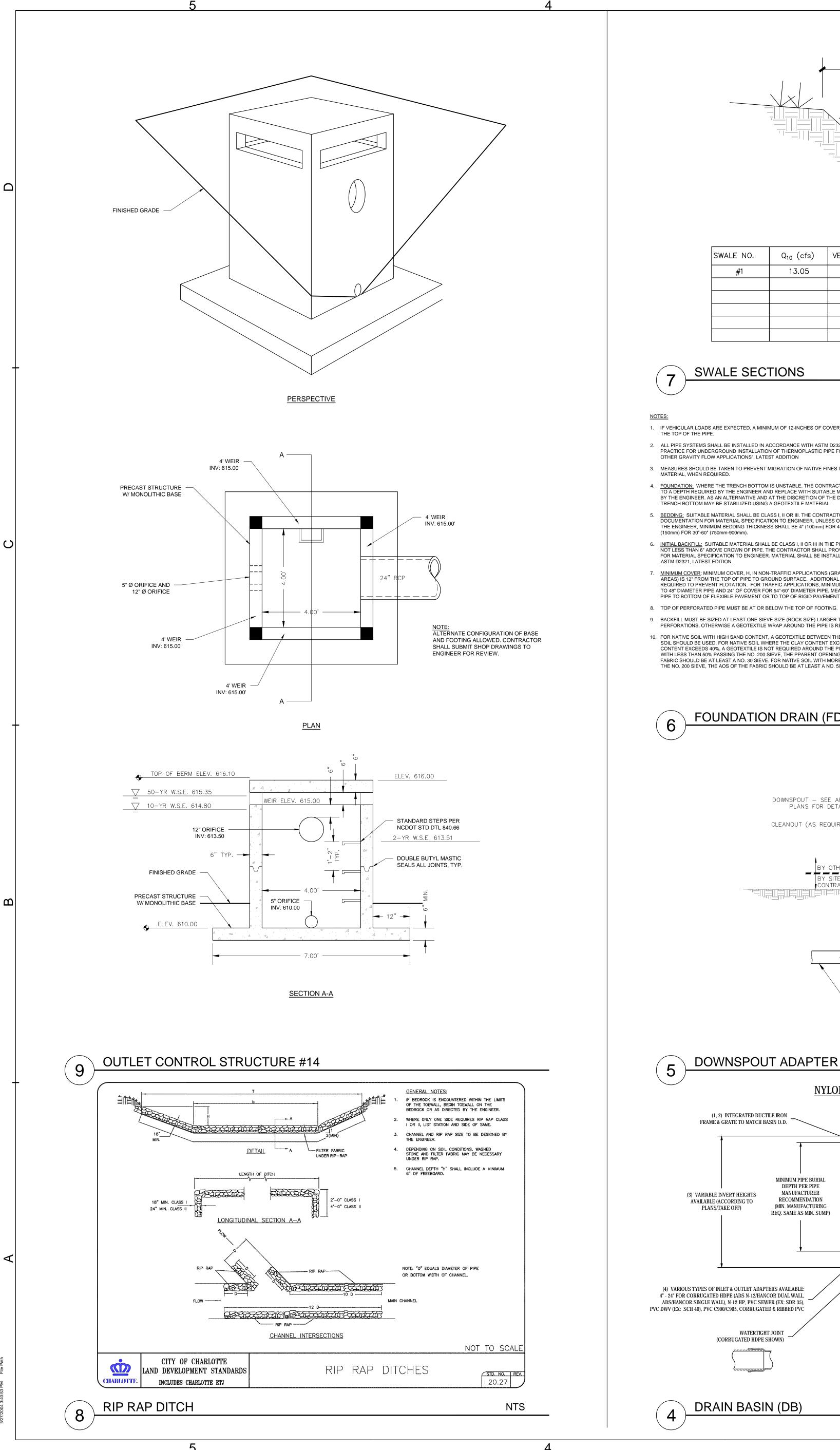
P ENGR. JDO

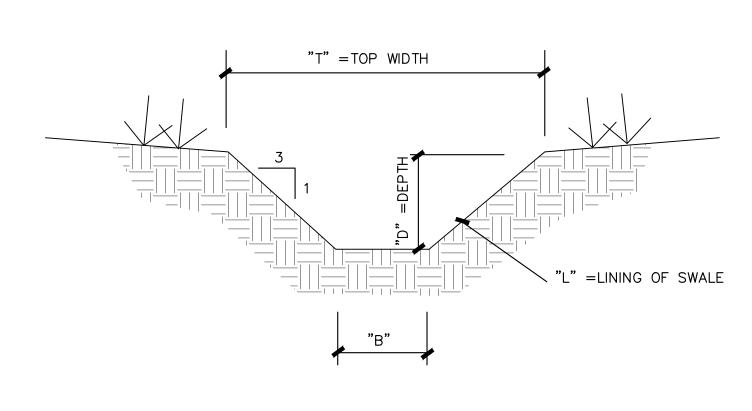
DESIGN BY DLS / MRB

SHEET TITLE

STORM DRAINAGE DETAILS

SHEET IDENTIFIER





SWALE NO.	Q ₁₀ (cfs)	VELOCITY (fps)	D	В	Т	LINING (L)
#1	13.05	5.0	1.5'	2'	11'	COCONUT REINF. MAT

SWALE SECTIONS

1. IF VEHICULAR LOADS ARE EXPECTED, A MINIMUM OF 12-INCHES OF COVER IS REQUIRED OVER THE TOP OF THE PIPE. 2. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND

OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION 3. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL

MATERIAL, WHEN REQUIRED. 4. <u>FOUNDATION:</u> WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE

TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL. 5. <u>BEDDING:</u> SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6"

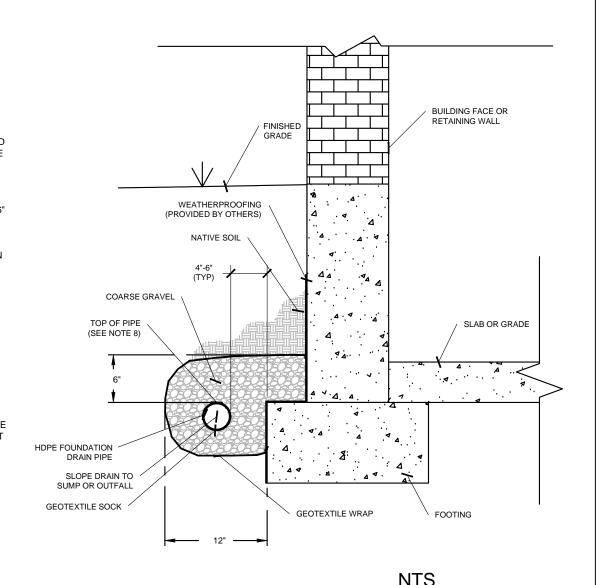
(150mm) FOR 30"-60" (750mm-900mm). S. <u>INITIAL BACKFILL:</u> SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN

ASTM D2321, LATEST EDITION. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE

AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS. MINIMUM COVER. H. IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

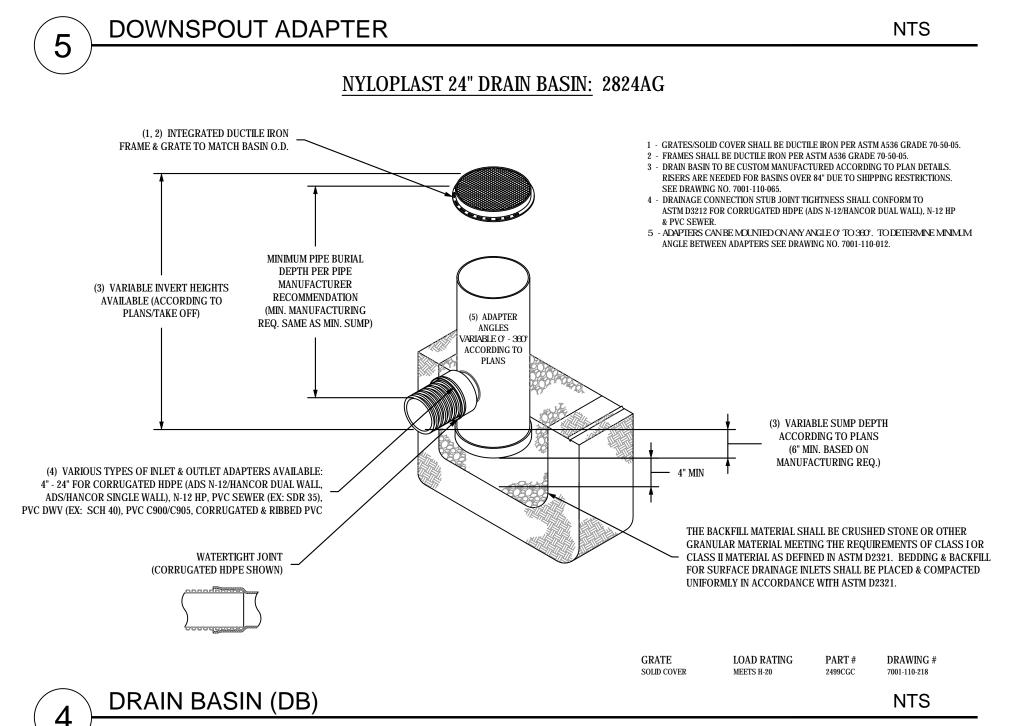
9. BACKFILL MUST BE SIZED AT LEAST ONE SIEVE SIZE (ROCK SIZE) LARGER THAN DIMENSIONS OF PERFORATIONS, OTHERWISE A GEOTEXTILE WRAP AROUND THE PIPE IS REQUIRED.

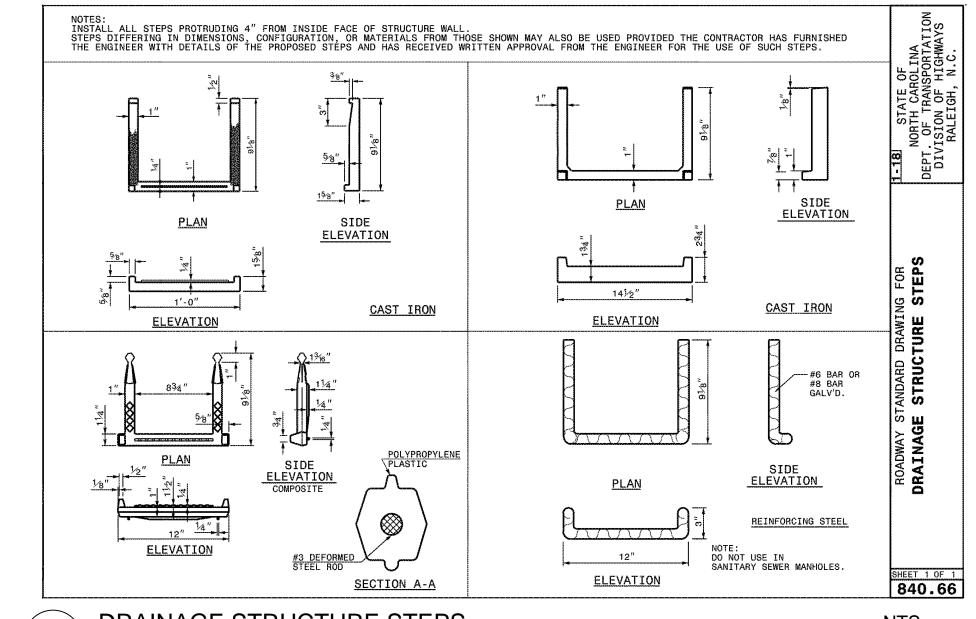
10. FOR NATIVE SOIL WITH HIGH SAND CONTENT, A GEOTEXTILE BETWEEN THE BACKFILL AND NATIVE SOIL SHOULD BE USED. FOR NATIVE SOIL WHERE THE CLAY CONTENT EXCEEDS 50% OR THE SILT CONTENT EXCEEDS 40%, A GEOTEXTILE IS NOT REQUIRED AROUND THE PIPE. FOR NATIVE SOIL WITH LESS THAN 50% PASSING THE NO. 200 SIEVE, THE PPARENT OPENING SIZE (AOS) THE FABRIC SHOULD BE AT LEAST A NO. 30 SIEVE. FOR NATIVE SOIL WITH MORE THAN 50% PASSING THE NO. 200 SIEVE, THE AOS OF THE FABRIC SHOULD BE AT LEAST A NO. 50 SIEVE.



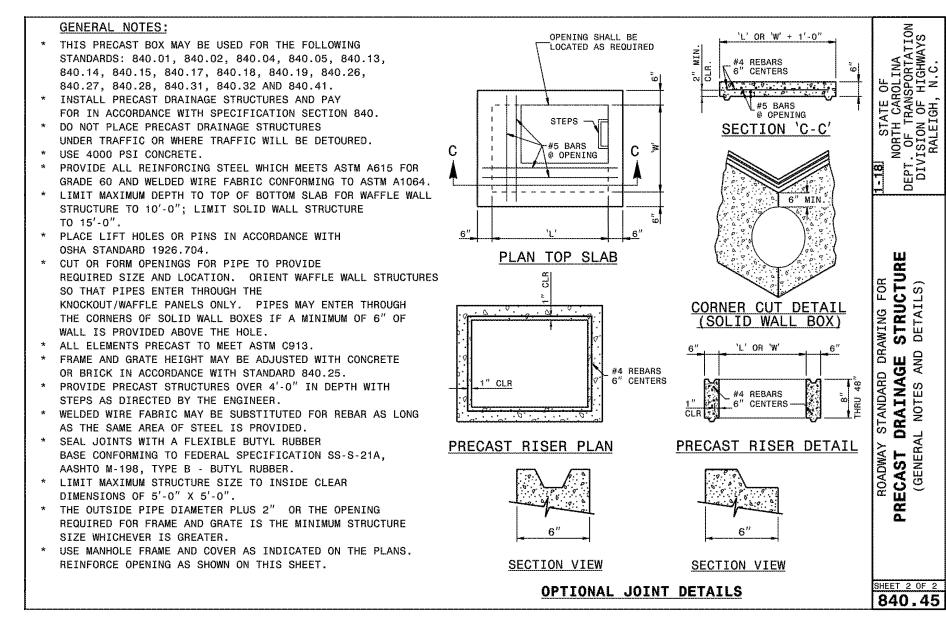
FOUNDATION DRAIN (FD)

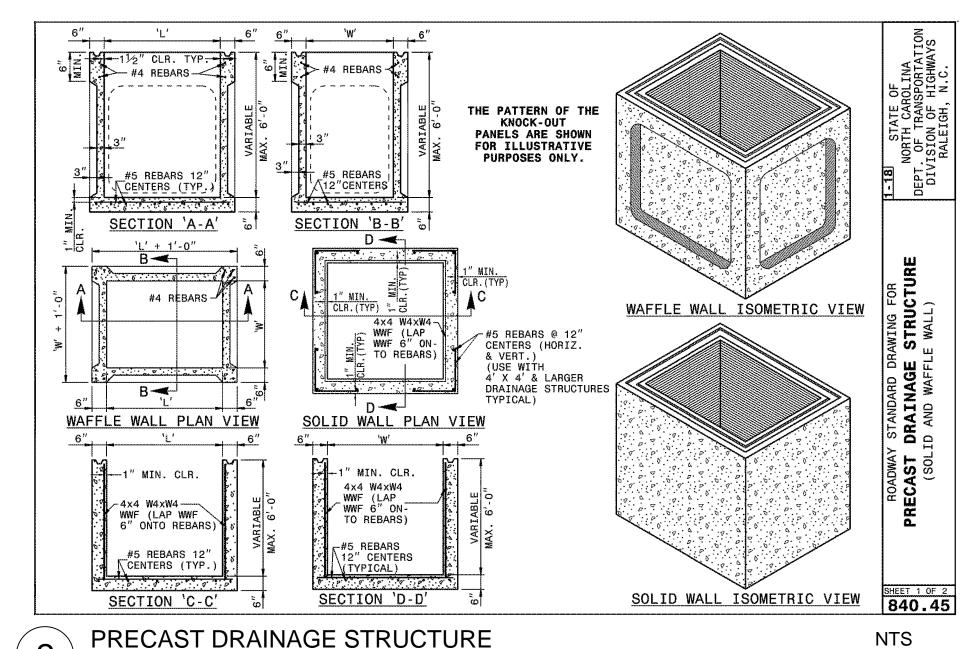
DOWNSPOUT - SEE ARCH -PLANS FOR DETAILS CLEANOUT (AS REQUIRED) — BY OTHERS _____ CAST IRON PIPE AND FITTINGS - SIZE TO ACCOMMODATE DOWNSPOUT - REDUCER (AS REQUIRED) ROOF DRAIN LEADER -SEE PLAN FOR SIZE AND MATERIAL

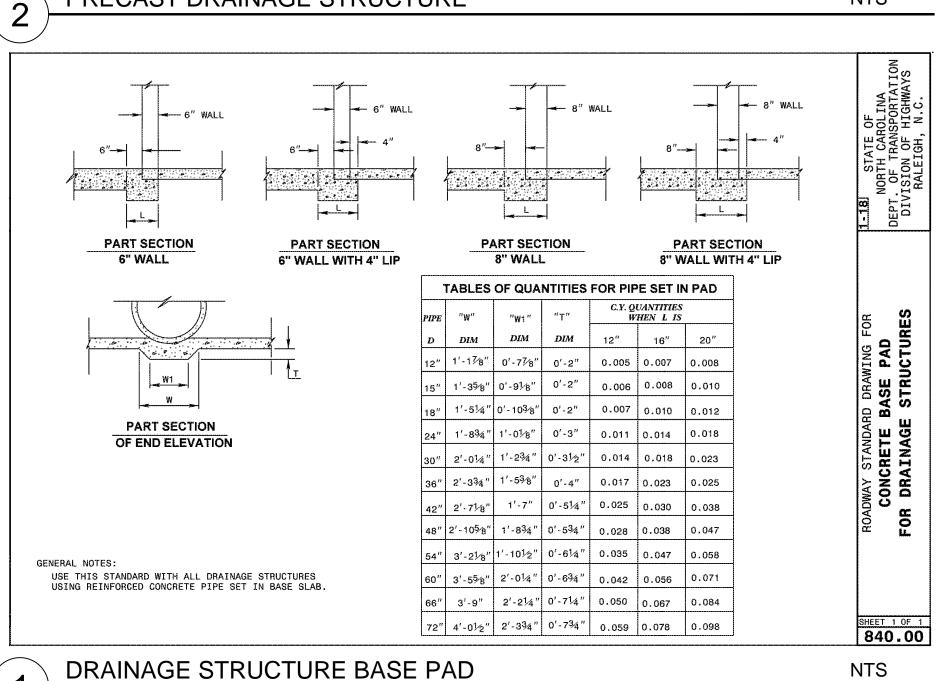




DRAINAGE STRUCTURE STEPS







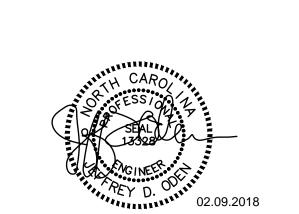
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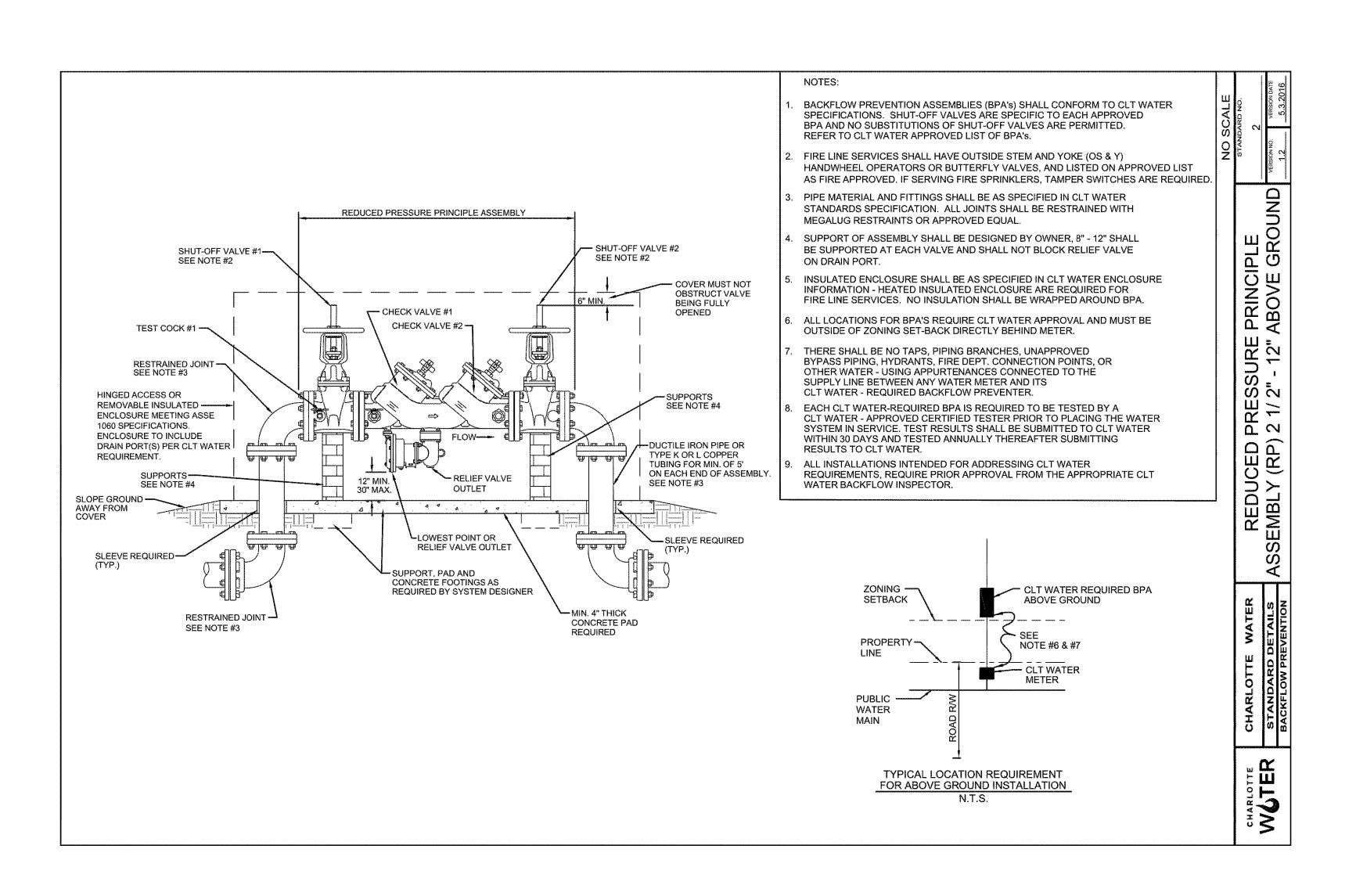


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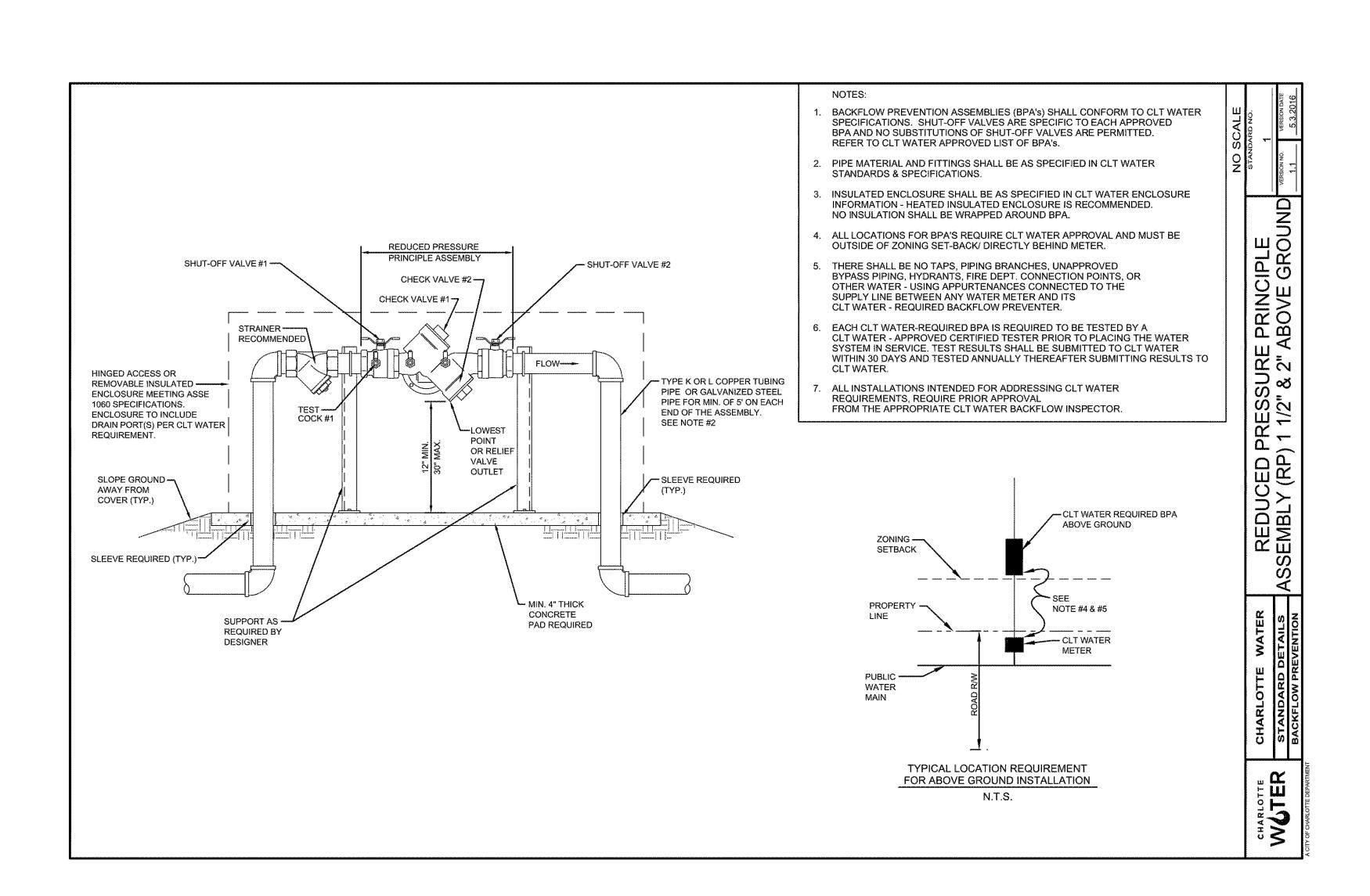
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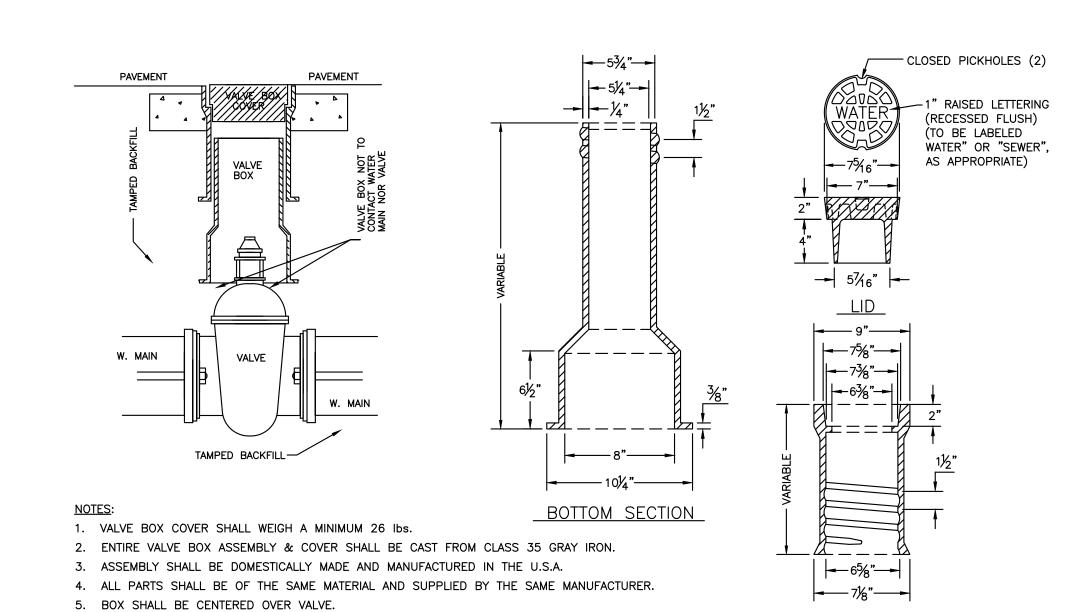
STORM DRAINAGE **DETAILS**



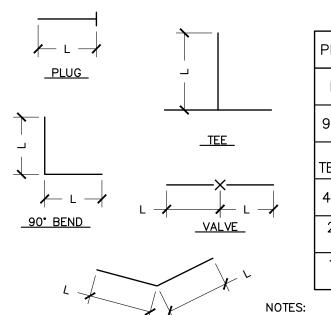
4" & 8" RPZ BACKFLOW PREVENTION ASSEMBLY







VALVE BOX AND COVER



PIPE SIZE	4"	6"	8"	10"
FITTING	L	L	L	L
90° BEND	33'	47'	62'	75'
VALVE, TEE, PLUG	29'	41'	55'	67'
45° BEND	14'	20'	26'	31'
22 1/2° BEND	7'	10'	13'	15'
11 1/4° BEND	4'	5'	7'	8'

2. L=LENGTH

1. LENGTH OF RESTRAINED PIPE MEASURED EACH WAY FROM VALVES AND BENDS.

3. MIN 3' GROUND COVER REQD.

4. BASED ON 200 PSI INTERNAL PRESSURE.

5. LENGTH REFERS TO THE AMOUNT OF PIPE WHICH MUST BE RESTRAINED TOGETHER. 6. LENGTH OF RESTRAINED PIPE CHART IS FOR THE LENGTH OF JOINT RESTRAINT FOR

MEGALUGS, OR APPROVED EQUAL. 7. CROSSES MUST BE RESTRAINED IN ALL APPLICABLE DIRECTIONS.

8. 12" AND SMALLER IN LINE VALVES AND TEES SHALL HAVE A MECHANICAL JOINT RESTRAINT DEVICE ON EACH SIDE OF THE FITTING OR VALVE.

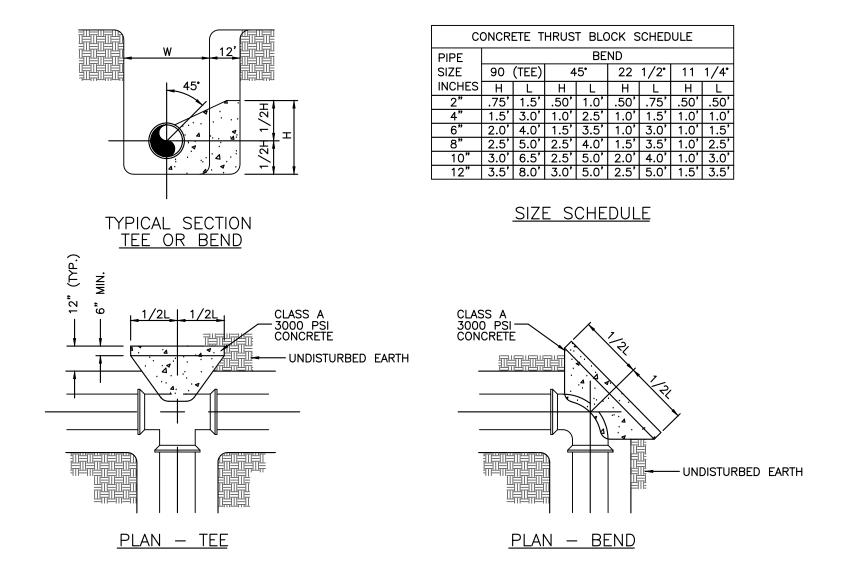
9. A SECOND VALVE WILL BE REQD TO BE CLOSED WHEN EXCAVATING NEXT TO A EXIST

10. ON PLUGS, TEES AND BENDS, A CONCRETE ANCHOR SHALL BE USED IN ADDITION TO

11. WHEN REDUCERS ARE USED ON VALVE INSTALLATIONS THE LENGTH OF RESTRAINT SHALL BE BASED ON THE SIZE OF THE PIPE NOT THE SIZE OF THE VALVE.

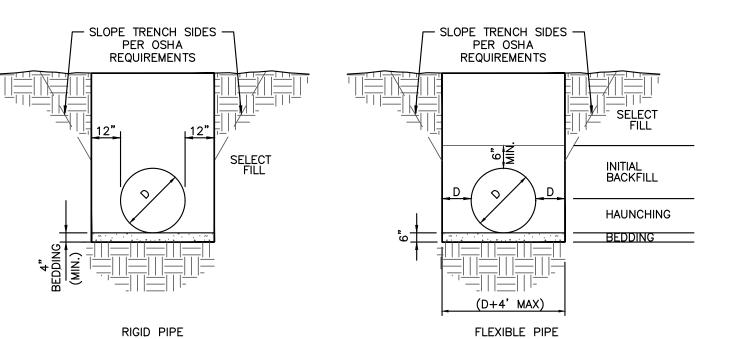
MECHANICAL JOINT RESTRAINT

NTS



THRUST BLOCKING

NTS



RIGID PIPE INCLUDES REINFORCED CONCRETE AND DUCTILE IRON PIPE

INCLUDES CORRUGATED METEL, HDPE, AND PVC PIPE **GENERAL NOTES**

- BEDDING SHALL BE CLASS I—A WORKED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I—B COMPACTED TO 95% STANDARD PROCTOR. 2. HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I—A OR CLASS I—B OR CLASS II COMPACTED TO 95%
- 3. INITIAL BACKFILL SHALL BE CLASS I-A WORKED BY HAND, OR CLASS I-B OR CLASS II COMPACTED TO 95% STANDARD PROCTOR.
- 4. INITIAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS III COMPACTED TO 90% 5. SELECT BACKFILL SHALL BE CLASS I, II, OR III COMPACTED TO 95% STANDARD

PROCTOR WITH TOP 24" COMPACTED TO 100% STANDARD PROCTOR.

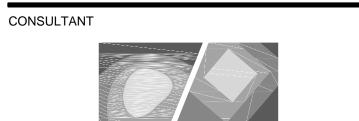
- SELECT BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS IV—A COMPACTED TO 95% STANDARD PROCTOR. 7. ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321-LATEST EDITION. 8. ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698. CLASS III AND IV—A MATERIALS SHALL BE COMPACTED NEAR
- OPTIMUM MOISTURE CONTENT. 9. FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS
- LARGER THAN 3". 10. ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL

WATER AND SEWER TRENCHING

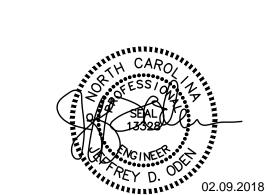
NTS

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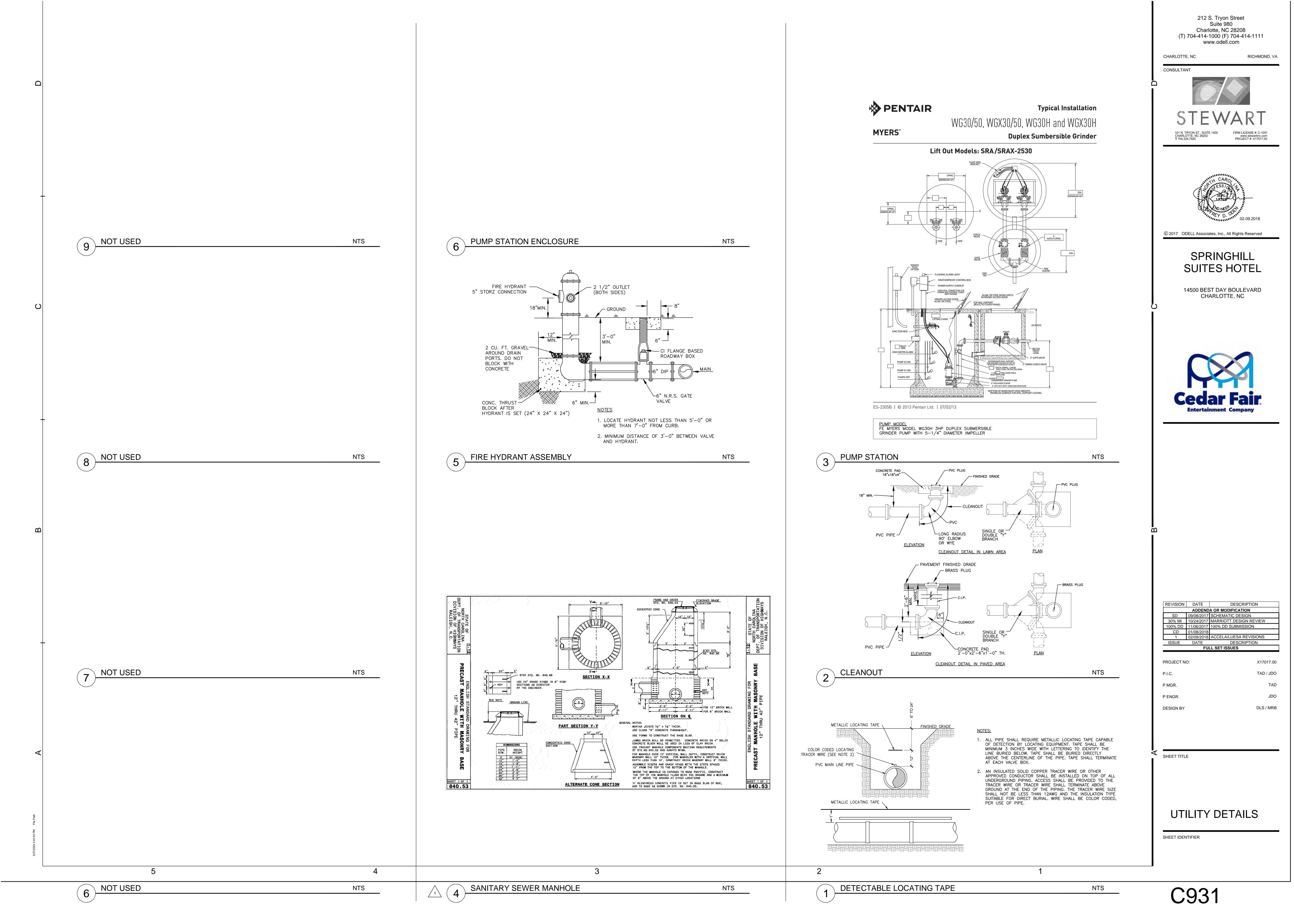


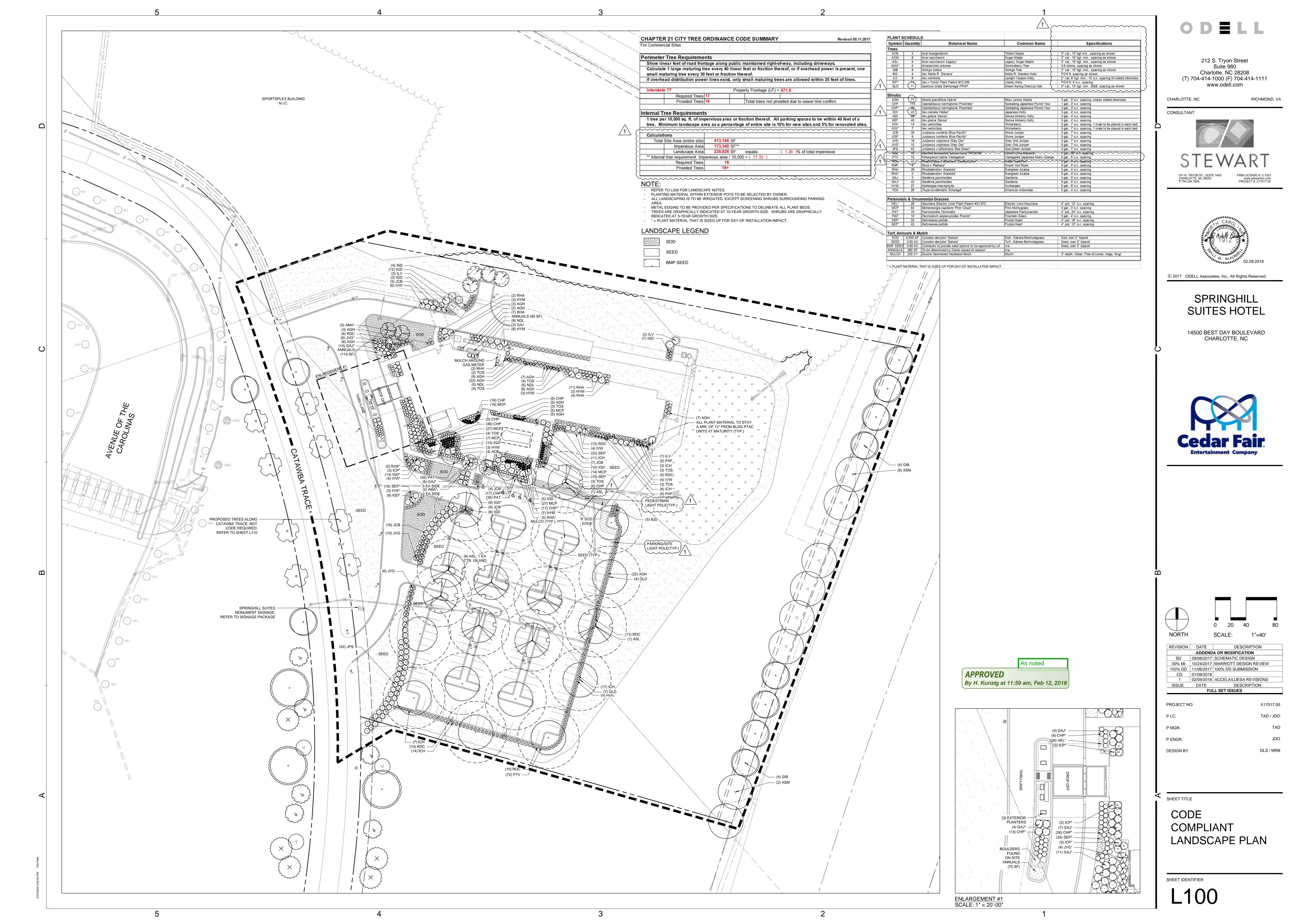
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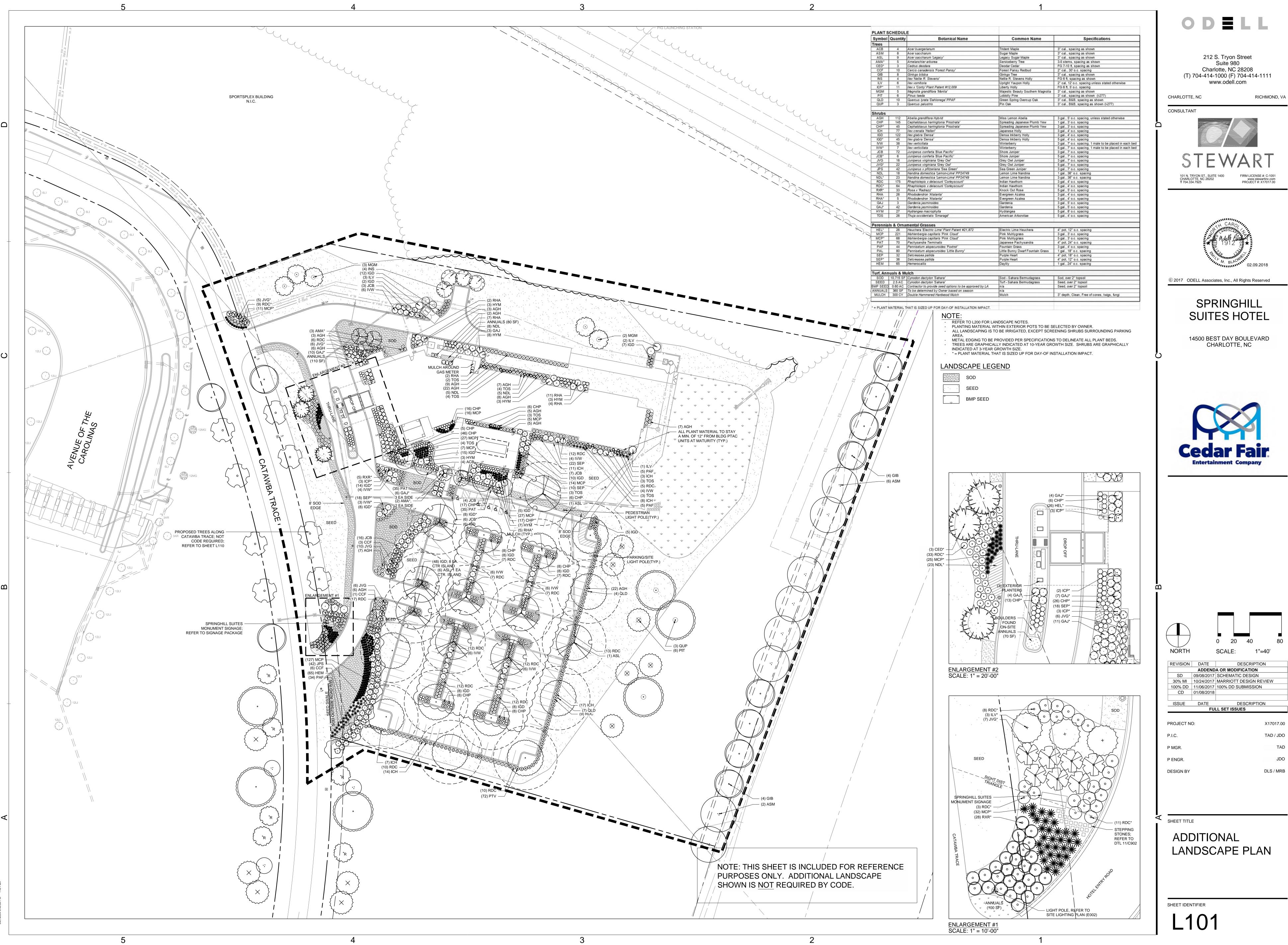
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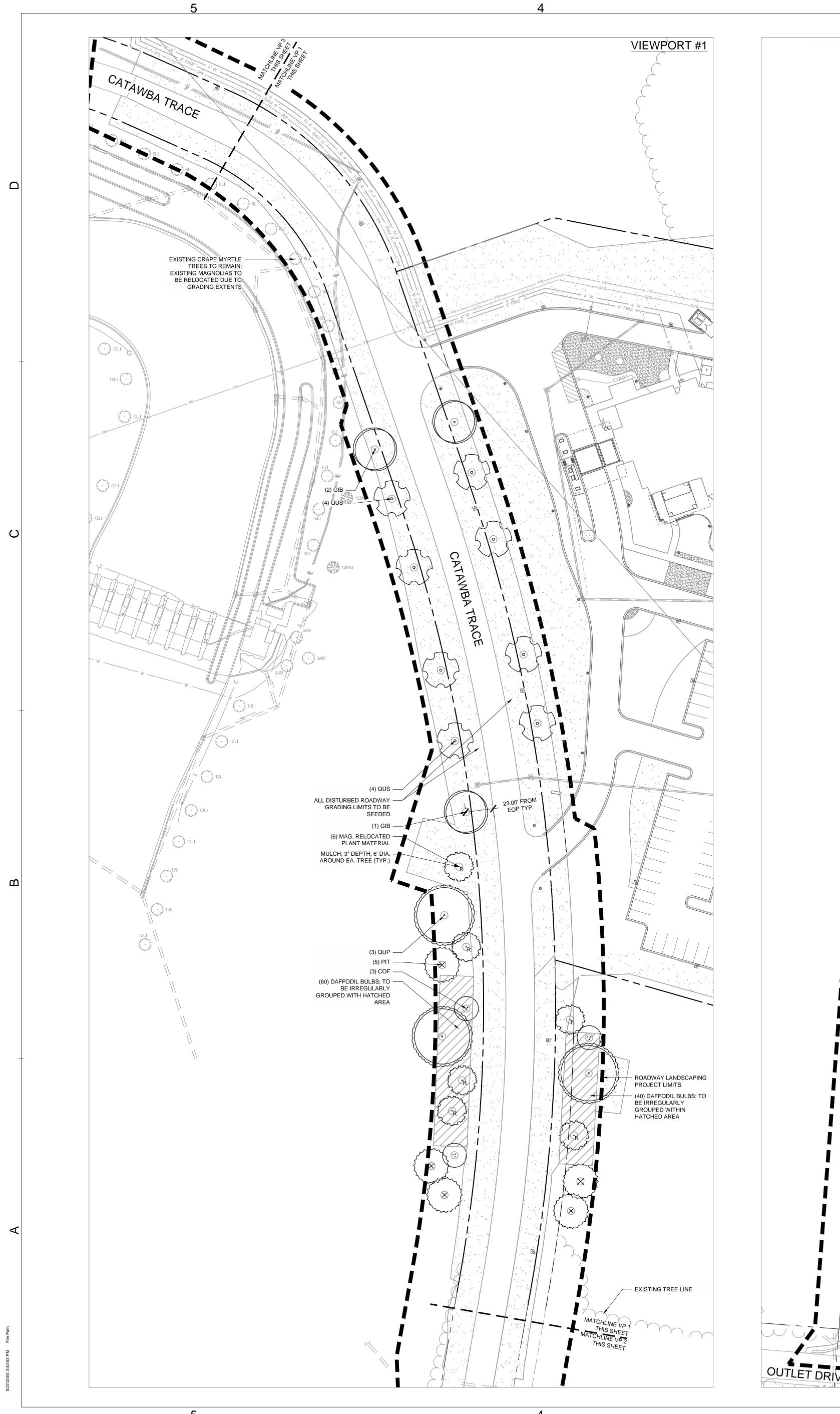
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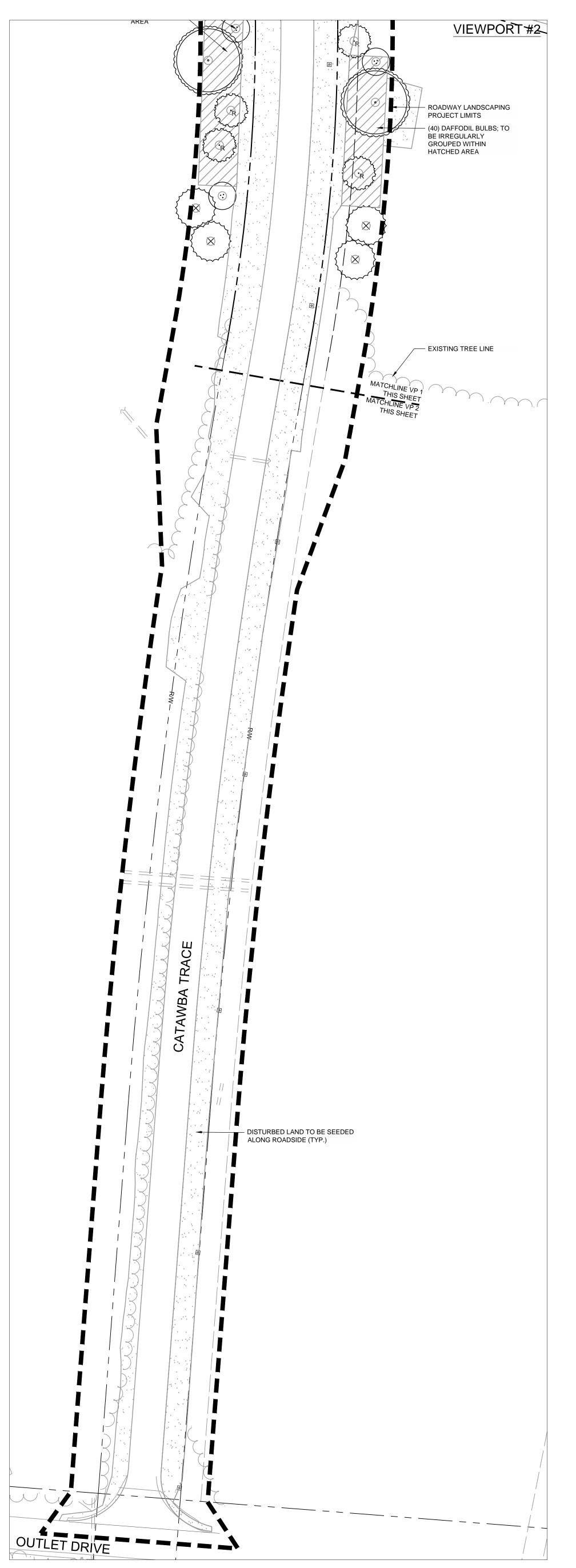
UTILITY DETAILS

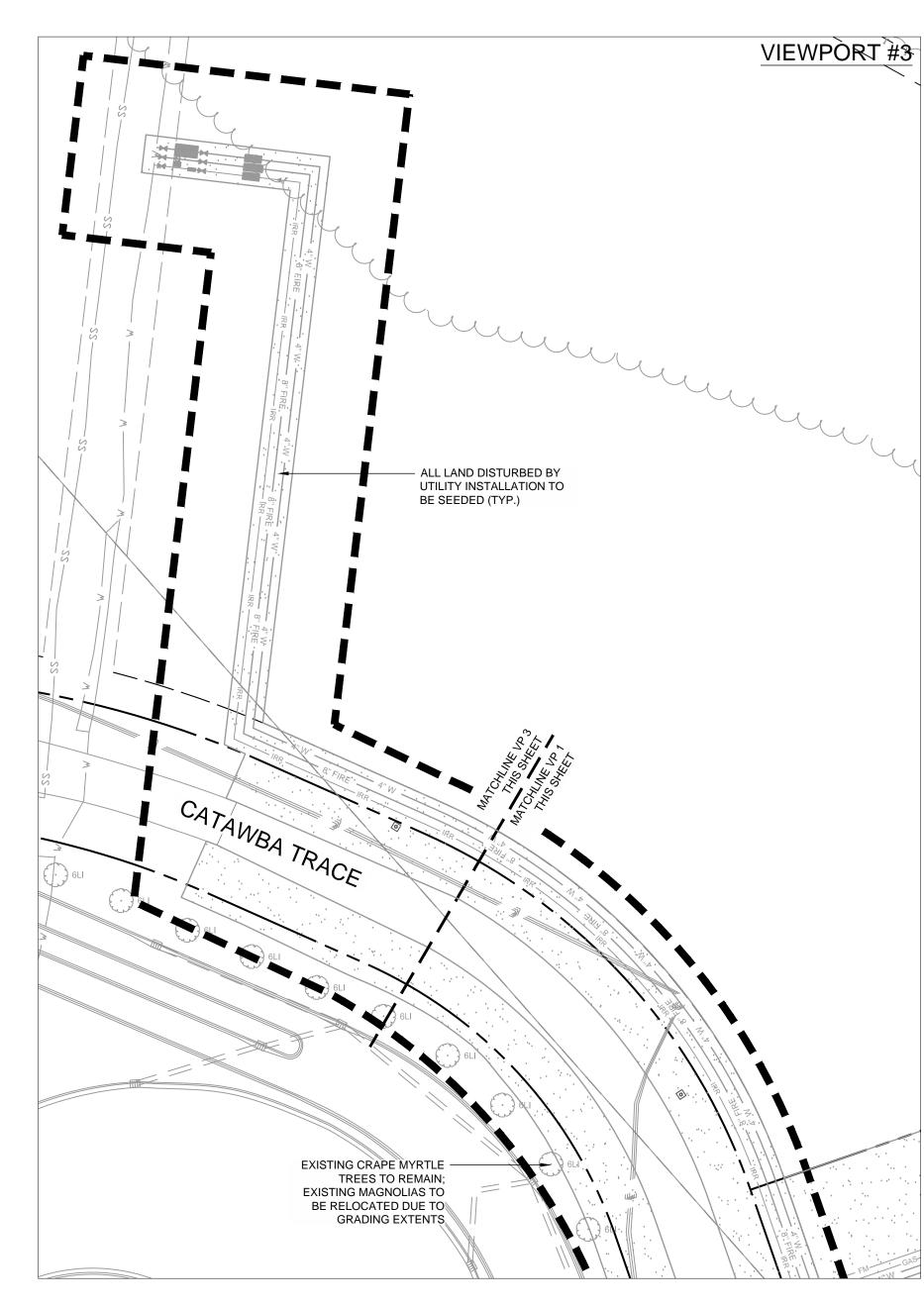












Symbol	Quantity	Botanical Name	Common Name	Specifications
Trees				
COF	3	Cornus florida	Dogwood	2" cal., spacing as shown
GIB	3	Ginkgo biloba	Ginkgo Tree	3" cal., spacing as shown
MAG	6	Magnolia grandiflora	Magnolia	Existing plant material to be RELOCATED
PIT	5	Pinus taeda	Loblolly Pine	3" cal., spacing as shown
QUP	3	Quercus palustris	Pin Oak	3" cal., spacing as shown
QUS	8	Quercus shumardii	Shumard Oak	3" cal., spacing as shown
Shrubs	ıls & Orna	mental Grasses		
Perennia			Tax and the second second	Dutha
Perennia -		Narcissus	Daffodils (yellow)	Bulbs
•	100	Narcissus	Daffodils (yellow)	Buids
	100	Narcissus Cynodon dactylon 'Sahara'	Turf - Sahara Bermudagrass	Seed, over 2" topsoil

NOTE: THIS SHEET IS FOR REFERENCE PURPOSES

ONLY. PLANTINGS ASSOCIATED WITH ROADWAY

LANDSCAPE ARE NOT REQUIRED BY CODE.

NO METAL EDGING IS TO BE PROVIDED FOR ROADWAY LANDSCAPING.
TREES ARE GRAPHICALLY INDICATED AT 10-YEAR GROWTH SIZE.

NOTE:
- REFER TO L200 FOR LANDSCAPE NOTES.

ROADWAY LANDSCAPING ALONG THIS STREET IS NOT TO BE PERMANENTLY IRRIGATED.

LANDSCAPE LEGEND

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NORTH

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ROADWAY LANDSCAPE PLAN

GENERAL LANDSCAPE NOTES

THE OWNER AND LANDSCAPE ARCHITECT.

- 1. PRIOR TO ANY EARTH DISTURBING ACTIVITY, THE CONTRACTOR SHALL NOTIFY NORTH CAROLINA 811 (PHONE: 811 OR 1-800-632-4949) TO ASCERTAIN LOCATIONS OF ALL UNDERGROUND UTILITIES WITHIN THE WORK AREA. UTILITIES NOT GENERALLY LOCATED BY NORTH CAROLINA 811 WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY AND
- 2. NOTIFY THE LANDSCAPE ARCHITECT SHOULD ANY SUBSURFACE IMPROVEMENTS PRESENT AN OBSTRUCTION IN LOCATIONS DESIGNATED FOR PLANTING. IN SUCH SITUATIONS, PROCEED ONLY AFTER THE OWNER AND THE LANDSCAPE ARCHITECT HAVE APPROVED AN ALTERNATE
- 3. DAMAGE TO ANY UTILITY INCURRED BY THE CONTRACTOR AND NOT SPECIFIED ON THE PLANS FOR DEMOLITION, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR IN A TIMELY
- MANNER, TO THE SATISFACTION OF THE OWNER, AND AT NO COST TO THE OWNER. 4. THE CONTRACTOR SHALL REMOVE ALL TRASH, DEBRIS AND EXCESS MATERIALS FROM THE WORK AREA DAILY.
- 5. THE CONTRACTOR SHALL ACQUIRE ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION. 6. THE CONTRACTOR SHALL VERIFY ALL EASEMENTS AND LIMITS OF DISTURBANCE PRIOR TO
- PLANT INSTALLATION. 7. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO ENSURE THAT NO DAMAGE OCCURS TO EXISTING CURB AND GUTTER OR PAVEMENT UNLESS SPECIFIED ON THE PLANS FOR DEMOLITION. ALL TIRE MARKS SHALL BE CLEANED FROM PAVEMENT. ANY BROKEN CURB AND GUTTER SHALL BE REPLACED AT THE CONTRACTORS EXPENSE AND TO THE SATISFACTION OF
- 8. ALL PLANT MATERIAL SHALL BE GUARANTEED TO BE IN HEALTHY CONDITION FOR ONE YEAR AFTER ACCEPTANCE BY THE OWNER. THE GUARANTEE SHALL COVER ALL MATERIAL, LABOR AND EXPENSES FOR REMOVAL OF UNHEALTHY PLANTS AND INSTALLATION OF NEW PLANTS AS SPECIFIED IN THE PLANS AND DETAILS.
- 9. DURING THE ONE YEAR GUARANTEE PERIOD. THE CONTRACTOR SHALL REPLACE ANY DEAD OR VISUALLY UNHEALTHY PLANT MATERIAL WITHIN 7 DAYS OF NOTIFICATION OF LANDSCAPE ARCHITECT. CONTRACTOR SHALL MAINTAIN AN UPDATED, COMPREHENSIVE LIST OF ALL DEAD MATERIALS REMOVED AND PRESENT A COPY OF THE LIST TO THE OWNER AT THE END OF EVERY MONTH DURING THE CONTRACT PERIOD.
- 10. UNIT PRICES FOR ALL MATERIAL SHALL BE SUPPLIED TO THE OWNER AND WILL BE USED TO DETERMINE VALUE OF ADDITIONS OR DELETIONS IN THE CONTRACT. UNIT BID PRICING SHALL INCLUDE MATERIAL COSTS, SHIPPING, INSTALLATION LABOR, ALL GUARANTEES, SOIL AMENDMENTS, STAKING AND ALL COSTS ASSOCIATED WITH INSTALLING THE MATERIAL AS SHOWN IN THE PLANTING DETAILS.
- 11. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING QUANTITY OF PLANT MATERIAL SHOWN ON PLANS. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BETWEEN PLANT QUANTITY NOTES, THE PLANT SCHEDULE, AND/OR THOSE SHOWN IN GRAPHIC FORM. ANY FIELD ADJUSTMENTS OR QUANTITY ADJUSTMENTS MUST BE AUTHORIZED PRIOR TO
- 12. SIZES SPECIFIED IN THE PLANT SCHEDULE ARE MINIMUM SIZES TO WHICH THE PLANTS ARE TO BE JUDGED. FAILURE TO MEET MINIMUM SIZE ON ANY PLANT WILL RESULT IN REJECTION OF
- 13. PLANT MATERIAL SUBSTITUTION REQUESTS SHALL BE SUBMITTED IN WRITING TO THE LANDSCAPE ARCHITECT FOR REVIEW. THE CONTRACTOR SHALL NOT PURCHASE OR INSTALL ANY PLANTS THAT HAVE NOT BEEN APPROVED.

LANDSCAPING NOTES

- 1. ALL TREES TO BE A MINIMUM OF 4" IN CALIPER AND MUST MEET THE AMERICAN STANDARD FOR
- 2. THE CONTRACTOR SHALL STAKE THE LOCATIONS OF ALL PROPOSED TREES AND OBTAIN APPROVAL FROM THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO 3. ALL PLANT BED AREAS ARE TO RECEIVE A MINIMUM OF 6" 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 PLANTING. 4. SOIL SHOULD BE TESTED AND AMENDED WITH LIME AND FERTILIZER FOR HARDWOOD TREES ACCORDING TO NCDA PROCEDURES. SCARIFY PLANT PIT WALLS. CONSULT LANDSCAPE
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL PLANTING PITS PERCOLATE PROPERLY PRIOR TO PLANTING INSTALLATION.
- 6. 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 MUI CH. PIECES SHOULD BE NO LARGER THAN WHAT PASSES THROUGH A ONE INCH SCREEN JE 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.
- 7. TOP OF ROOTBALL TO BE RAISED 2-3 INCHES ABOVE EXISTING GRADE.
- 8. 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.
- 9. THE CONTRACTOR SHALL ENSURE THAT TREES REMAIN PLUMB AND UPRIGHT FOR THE DURATION OF THE GUARANTEE PERIOD. STAKING OF TREES IS AT THE CONTRACTOR'S DESECRATION AND IF NEEDED. SHALL BE INSTALLED AT NO ADDITIONAL COST TO THE OWNER WHERE INSTALLED, STAKES SHALL BE CONSTRUCTED OF UNTREATED PINE, GUYS SHALL BE OF FABRIC MATERIAL. THE CONTRACTOR SHALL REMOVE ALL STAKING MATERIALS AT THE END OF THE GUARANTEE PERIOD OR AS DIRECTED BY GROUNDS MANAGEMENT.
- 10. USE STANDARD "GATOR" BAGS FOR WATERING TREES IN AREAS NOT UNDER IRRIGATION. INCORPORATE TERRA-SORB (OR EQUAL) AS PER MANUFACTURERS RECOMMENDATIONS, FOR
- 11. USE "BIO-BARRIER" OR EQUIVALENT ACCORDING TO MANUFACTURER'S RECOMMENDATION FOR TREES THAT WILL BE PLANTED WITHIN 10' OF PAVEMENT
- 12. LANDSCAPING/C.O. STANDARDS NOTE: ALL LANDSCAPING MUST BE IN PLACE PRIOR TO REQUEST FOR A CERTIFICATE OF COMPLIANCE.
- 13. ALL PLANTING AREAS AND TREE PITS TO BE IRRIGATED. SEE MAIN IRRIGATION LINES AS DEPICTED ON SHEET C6.00. FINAL IRRIGATION DESIGN IS THE RESPONSIBILITY OF THE

SHRUB INSTALLATION NOTES

- 1. CUT ROOTS AS NECESSARY IN CONTAINERIZED PLANTS THAT ARE POT BOUND. REJECT PLANTS THAT HAVE GIRDLED ROOT OR ARE BOUND.
- 2. INSTALL TOP OF PLANT BALL 2" ABOVE ADJACENT GRADE.
- 3. TAMP PLANT SOIL MIX FIRMLY IN 8" LIFTS AROUND PLANT BALL.

ON PLANTING PLANS AND/OR IN THE PLANT SCHEDULE.

4. SOAK PLANT BALL AND PIT IMMEDIATELY AFTER INSTALLATION. 5. SHRUBS, BULBS, AND GROUNDCOVERS SHALL BE TRIANGULARLY SPACED AT SPACING SHOWN

Please use updated UF Notes

Planting Requirements maximum 3 to 5 trunks, and minimum 8 feet tall.

Charlotte Urban Forestry - Tree Planting and Preservation Requirements (updated 10/10/16)

Minimum tree size at planting is 2" caliper and 8' tall for single-stem trees. All multi-stem plants must be ree form, 13. Minimum tree size at planting is 2-inch caliper (for single stem trees). All multi-stem plants must be ree form, maximum 3 to 5 trunks, and minimum 10' tall. Where 3" single-stem caliper trees are specified/required ne minimum height shall be 10' tall, if multi-stem trees are specified then they shall be a minimum of 12' tall. All new trees must have straight trunks with strong central leaders intact to the top of the crown unless nulti-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 major girdling roots will NOT be accepted. Trees with co-dominant branching will NOT be accepted. Trees that have been sheared, opped or cut back to multiply the branching structure will NOT be accepted. Trees shall be free of abrasions,

amage, disease, pests and cracks. All pruning cuts greater than lpha 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 oot ball/flare from will NOT be accepted (CLDS.40.09).

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 Jrban 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 root A minimum of 50% of new trees must be native species, and sites with more than 20 trees required will ave 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.

See CLDS 40.01 & 40.09 (on plan) for detailed tree planting requirements. Plastic hose parts will NOT be accepted for tree staking. See CLDS 40.01 for approved staking method/ All strapping, and top 1/3 of wire basket and burlap must be cut away and removed from root ball when

For new planting areas, remove all pavement, gravel sub-base and construction debris; remove compacted

oil and add 18" new topsoil, or till and amend the top 18" of existing soil to meet topsoil/planting mix standards for rees (within entire minimum area of 274 square feet). Trees planted on public property will need approval from the City Arborist and/or NCDOT. Review soil requirements in the Tree Ordinance Guidelines at: http://charlottenc.gov/ld then click Trees.

If 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 Large maturing trees may not be planted within 25' of overhead power distribution or transmission lines. If trees conflict with any utilities or signs; call Urban Forester to resolve **BEFORE** planting. Adjust tree planting locations to avoid existing underground utilities. Plant 15' from all underground

No light poles, utilities or transformers can be installed in tree islands. Commercial scale lighting (> 15' in height) must be a minimum distance of 30' from a tree. Pedestrian scale thting (≤ 15' in height) must be a minimum distance of 15' from a tree. Show site lighting 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 Demo, erosion control, grading and landscape plan sheets. Commercial tree save areas must be recorded on a final plat with the Mecklenburg County Register o Deeds before Urban Forestry holds can be released. A 10' no build zone around tree save areas must be referenced

Tree Save Areas shall be free of invasive plant species. If an area proposed for tree save contains invasive lant species at time of proposal, such invasive plant species shall be removed prior to final CO. The area of any easements (water, sewer, utility, etc.) can NOT be counted toward the tree save

Any activity within tree save areas must be accomplished without mechanized equipment. No structure will be allowed within 10' of tree save areas unless approved by Urban Forestry. All trees on public property are protected and removal must be permitted by the city arborist 04)336-4262. Contact Urban Forestry Specialist PRIOR to any crane set-up, machinery operation, or temporary

onstruction trailer siting that may impact Charlotte Tree Ordinance protected trees or tree save areas, including

rees located in street right of way. Impacts may include but are not limited to: encroaching within tree drip-lines,

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. Visit City of Charlotte's Land Development website for additional information and urban forestry

THE CITY ARBORIST (704)336-4262.

REMOVED DURING GRADING.

DECOMPOSITION PROCESS

POTASSIUM 5 - 8%

3" MULCH TO BE FLUSH

W/TOP OF CURB

CONCRETE CURB; REFER

TO DETAIL XX

NOTE: TREES TO BE PLANTED IN CENTER OF ISLANDS.

- PLANTING SOIL PER SPECIFICATIONS

quirements: http://charlottenc.gov/ld then click *Trees*.

 CALL (704) 336-4354 FOR AN INSPECTION OF TREE PROTECTION/PLANTING AREAS, A MINIMUM OF 5 DAYS BEFORE A CO IS NEEDED.

xcavation, soil compaction, tree trimming, erecting and dismantling of construction cranes.

- VISIT CITY OF CHARLOTTE'S LAND DEVELOPMENT WEBSITE FOR ADDITIONAL INFORMATION AND URBAN FORESTRY REQUIREMENTS: <u>HTTP://LANDPERMITS.CHARMECK.ORG</u> THEN CLICK
- TOPSOIL/PLANTING MIX --MINIMUM REQUIREMENTS: WHERE PAVEMENT CUTOUTS ON RENOVATED SITES ARE REQUIRED AND/OR WHERE NEW PLANTING STRIPS OR ISLANDS ARE REQUIRED, ALL PAVEMENT, CONSTRUCTION DEBRIS AND GRAVEL SUB-BASE MUST BE REMOVED BEFORE PREPARING SOIL AND PLANTING TREES EXISTING COMPACTED SOIL MUST BE REMOVED AND REPLACED WITH 24" OF TOPSOIL/PLANTING MIX -OR- EXISTING SOIL MAY BE UNCOMPACTED TO A DEPTH OF 24" AND
- AMENDED TO MEET TOPSOIL STANDARDS FOR THE ENTIRE PLANTING AREA. SOIL IN ALL PLANTING STRIPS OR ISLANDS, WHETHER EXISTING OR NEW (ON NEW OR RENOVATED SITES), MUST MEET THE MINIMUM TOPSOIL/PLANTING MIX SPECIFICATIONS. EXISTING SOILS SHOULD BE TESTED. SOIL AMENDMENTS OR FRESH TOPSOIL/PLANTING MIX ARE OFTEN NEEDED FOR PLANTING AREAS AT SITES WHERE ORIGINAL TOPSOIL IS OF POOR QUALITY, HEAVILY COMPACTED OR WHERE TOPSOIL HAS BEEN COMPLETELY
- TOPSOIL/PLANTING MIX SHOULD BE NATURAL, FERTILE, AGRICULTURAL SOIL CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH. IT SHOULD BE UNIFORM COMPOSITION THROUGHOUT, WITH ADMIXTURE OF SUBSOIL. IT SHOULD BE FREE OF STONES, LUMPS, LIVE PLANTS AND THEIR ROOTS, STICKS AND OTHER EXTRANEOUS MATTER. TOPSOIL SHOULD NOT BE USED WHILE IN A FROZEN OR MUDDY CONDITION. TOPSOIL/PLANTING MIX SHALL HAVE AN ACIDITY RANGE OF PH 5.5-7.0 AND THE FOLLOWING
- CLAY (RED CLAY, WELL PULVERIZED) MINIMUM 10%; MAXIMUM 35% COMPOST*/ORGANIC MINIMUM 5%: MAXIMUM 10% SILT MINIMUM 30%: MAXIMUM 50% COARSE SAND (FREE OF ROCKS, 0.5 TO 1.0 MM F) MINIMUM 30%; MAXIMUM 45% ORGANIC MATERIAL SUCH AS SAWDUST OR LEAF MOLD THAT HAS COMPLETED THE
- RECOMMENDATIONS: ALL PLANTING AREAS SHOULD BE TESTED FOR PROPER DRAINAGE. DRAINAGE SHOULD BE CORRECTED AS NECESSARY TO INSURE PROPER TREE GROWTH AND SURVIVAL. THE FOLLOWING LEVEL OF NUTRIENT ELEMENTS IS RECOMMENDED FOR PROPER GROWTH: CALCIUM 55 - 80% MAGNESIUM 10 - 30%

PLANTINGS IN STREET RIGHT-OF-WAY

CHARLOTTI

LANDSCAPE INSPECTION INCLUDE THE FOLLOWING:

- . TREE GRATES AND ASSOCIATED IRRIGATION SYSTEMS ARE REQUIRED AT VARIOUS LOCATIONS IN THE UPTOWN AREAS TO COMPLY WITH THE UPTOWN
 STREETSCAPE GUIDELINES AND OTHER ZONING REQUIREMENTS. ALL OTHER INSTALLATIONS OF IRRIGATION SYSTEMS WITHIN THE RIGHT—OF—WAY OF CITY OR STATE MAINTAINED STREETS REQUIRE AN ENCROACHMENT AGREEMENT EXECUTED THROUGH CDOT OR NCDOT. THE CITY'S ENCROACHMENT AGREEMENT REVIEW/APPROVAL PROCESS MAY INCLUDE ADDITIONAL REQUIREMENTS. CONTACT CDOT OR NCDOT FOR ADDITIONAL INFORMATION REGARDING COST, SUBMITTAL, AND LIABILITY INSURANCE COVERAGE REQUIREMENTS.
- A DRAINAGE SYSTEM IS REQUIRED AS SHOWN FOR ALL IRRIGATED PLANTING AREAS LOCATED ADJACENT TO STREETS. ALL IRRIGATION/DRAINAGE SYSTEMS NOT REQUIRED BY THE UPTOWN STREET GUIDELINES REQUIRE AN ENCROACHMENT AGREEMENT EXECUTED BY CDOT OR NCDOT FOR CITY OR STATE—MAINTAINED ROADS, RESPECTIVELY. CONTACT CDOT OR NCDOT FOR ADDITIONAL INFORMATION REGARDING COST, SUBMITTAL AND LIABILITY INSURANCE COVERAGE REQUIREMENTS. 3. AN INSPECTION SCHEDULE IS NEEDED FOR TREES THAT WILL BE PLANTED IN THE STREET RIGHT OF WAY DUE TO ZONING OR OTHER REQUIREMENTS.
 - TREE PIT/WELL OR PLANTING STRIP INSPECTION SOIL MIX APPROVALS/INSPECTIONS REE APPROVALS/INSPECTIONS - PRIOR TO PURCHASING THE TREES, TO BE MADE BY THE CITY ARBORIST OR ASSISTANT CITY ARBORIST - 336-4262.
- IRRIGATION INSPECTION FINAL WALK THROUGH
- ALL OF THE ABOVE INSPECTIONS WILL BE PERFORMED BY THE CITY LAND DEVELOPMENT DIV. (URBAN FORESTRY SECTION) EXCEPT FOR THE TREE APPROVALS AS NOTED.

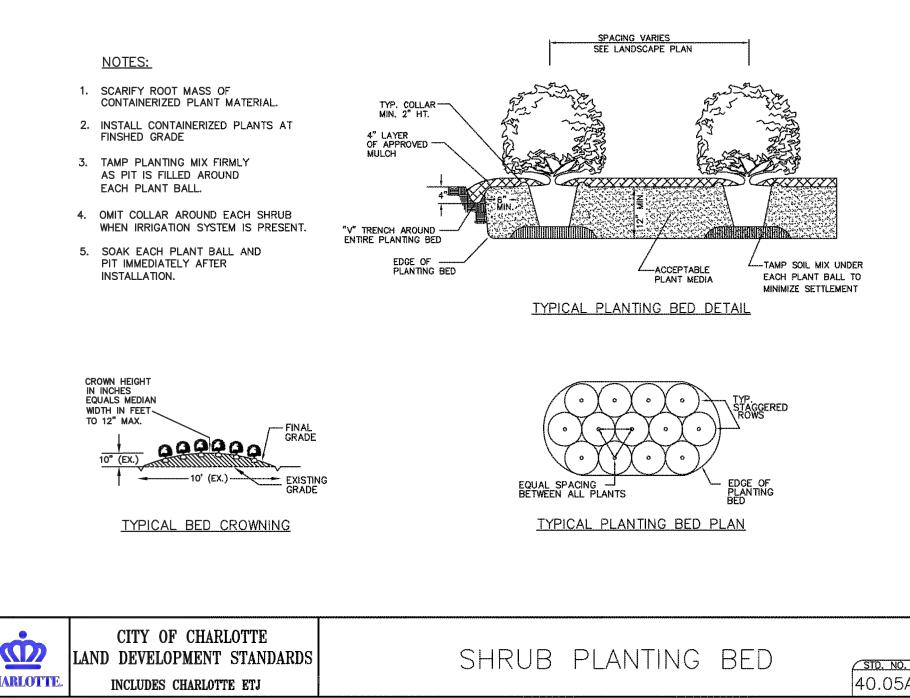
CITY OF CHARLOTTE LAND DEVELOPMENT STANDARDS

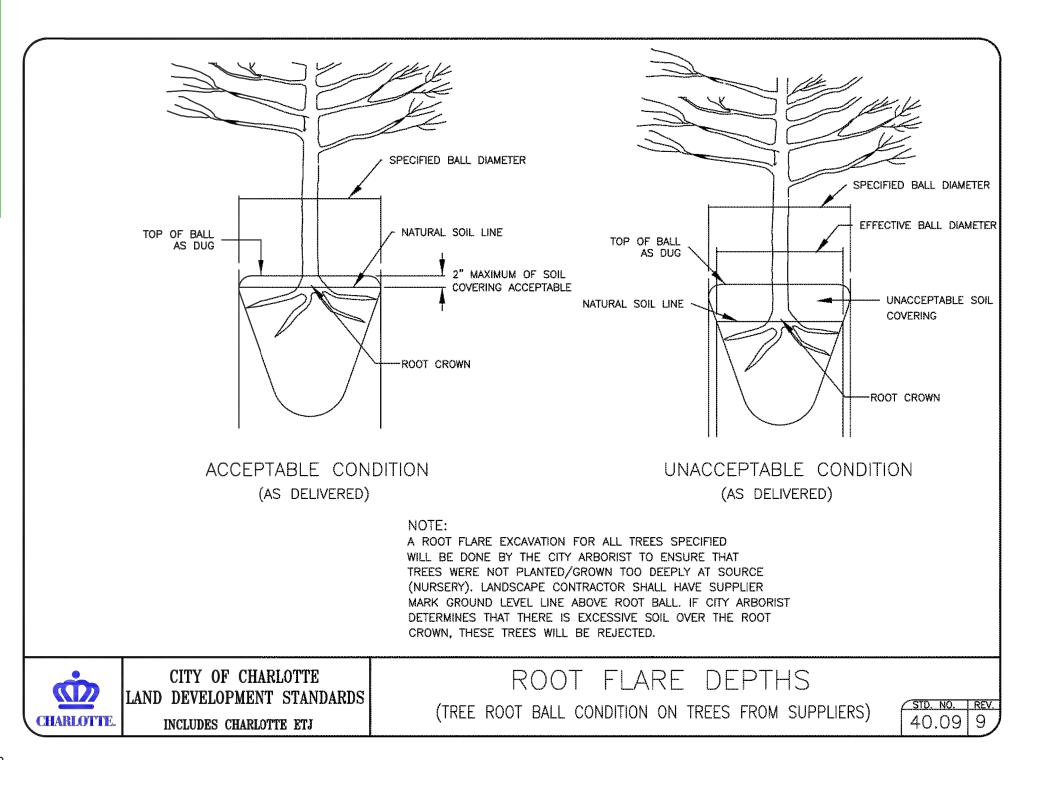
INCLUDES CHARLOTTE ETJ

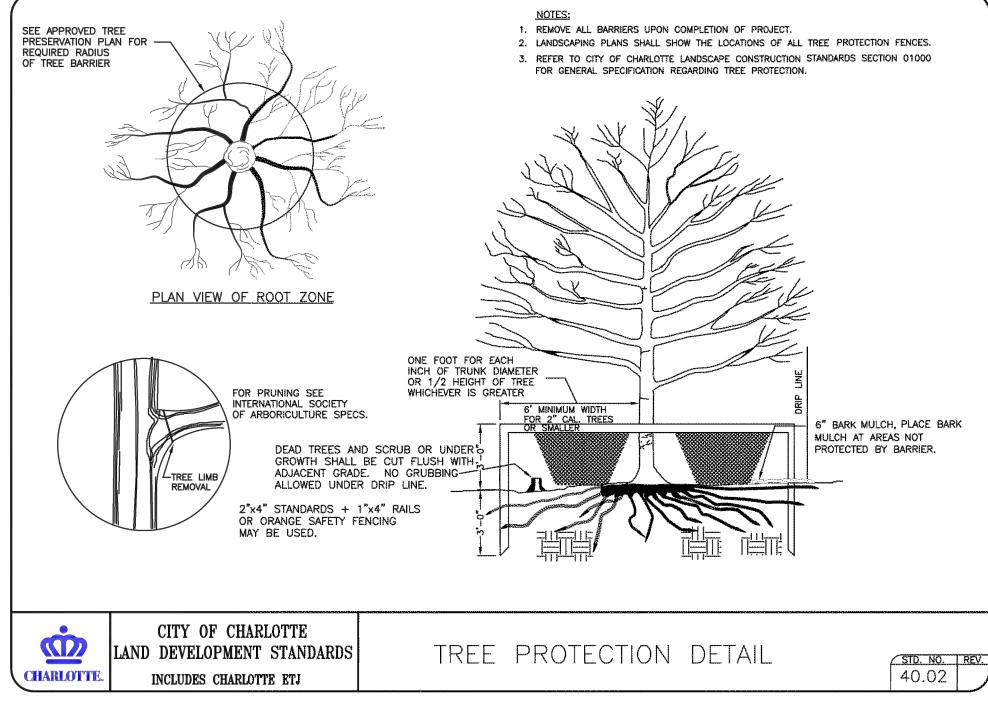
THIS MAY INCLUDE PHOTO APPROVAL OR PARTICIPATION IN TAGGING THE TREES.

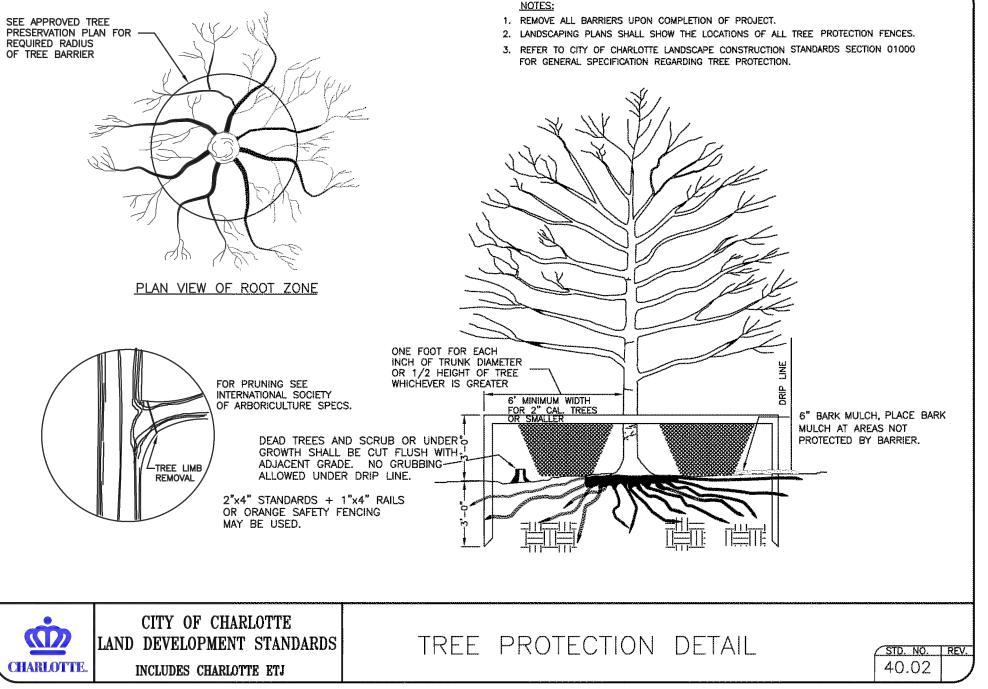
TREE PLANTING-NOTES (DRAINAGE AND INSPECTION)

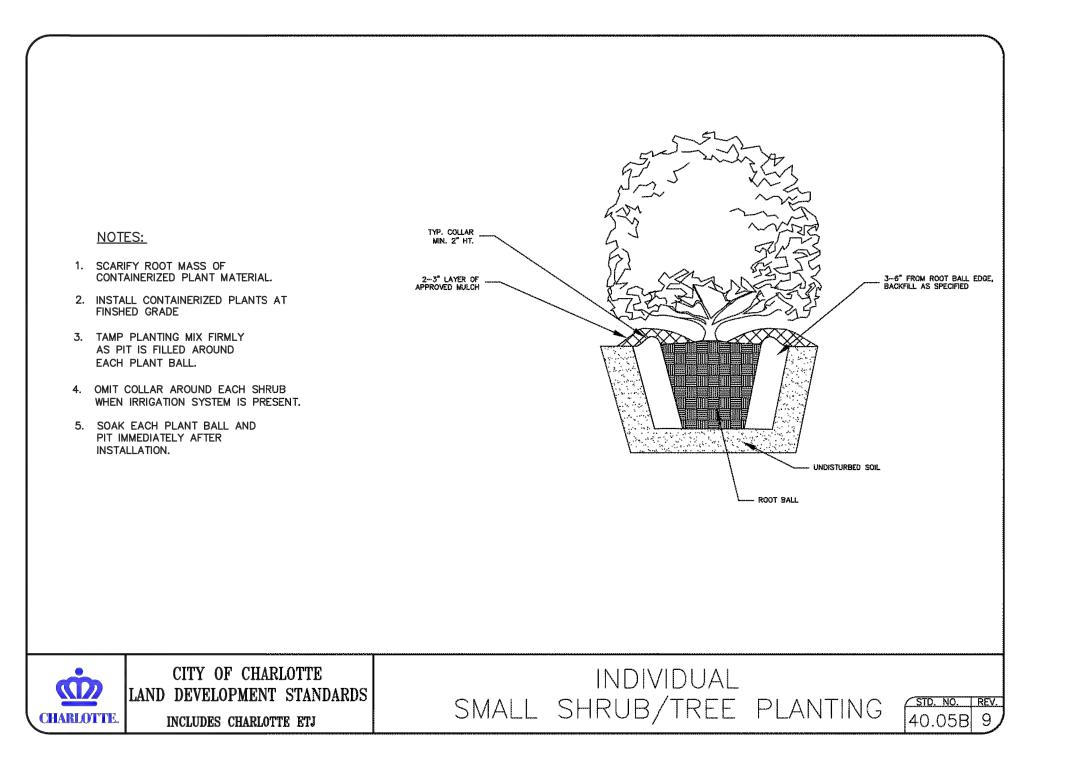
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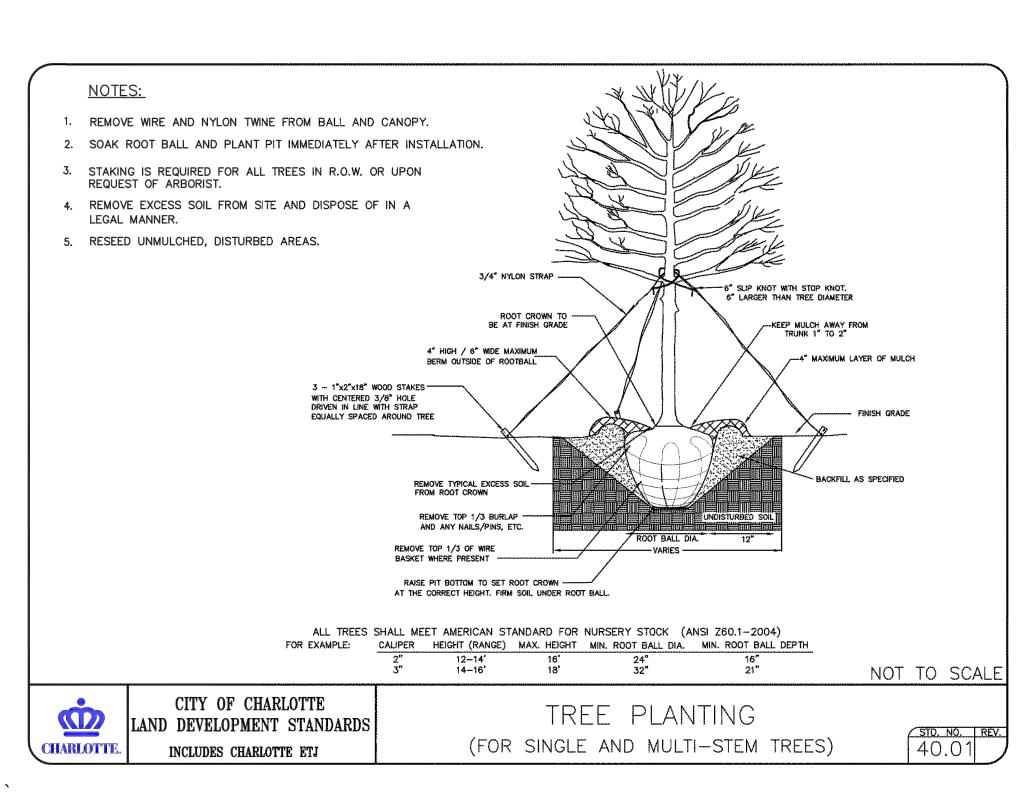


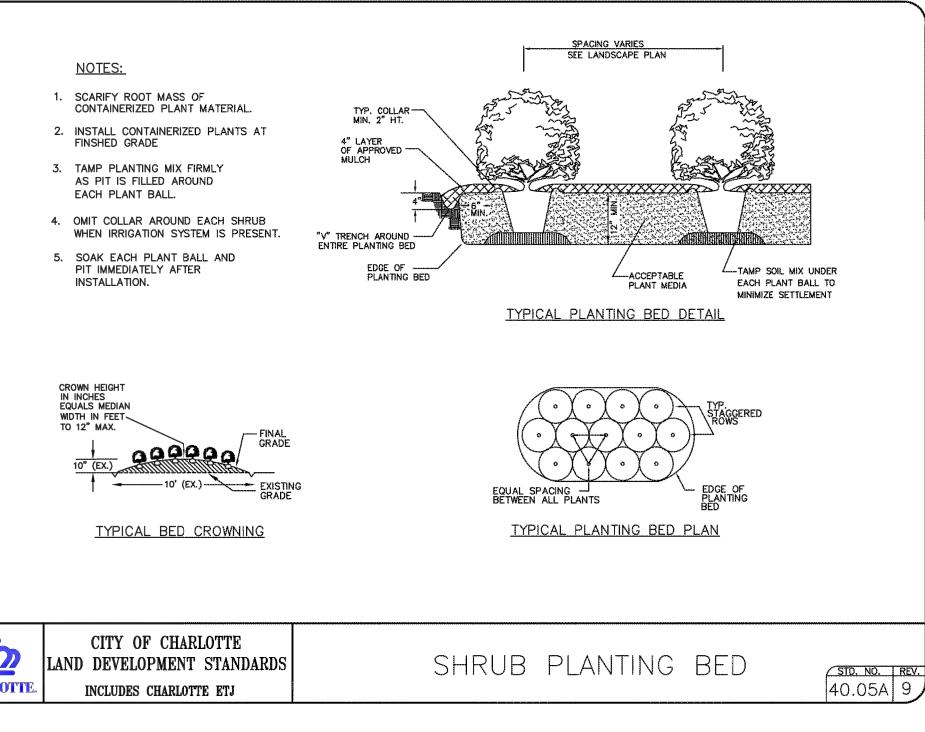














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SUITES HOTEL

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CHARLOTTE, NC

RICHMOND, VA

CHARLOTTE, NC

CONSULTANT

ADDENDA OR MODIFICATION SD | 09/08/2017 | SCHEMATIC DESIGN 30% MI 10/24/2017 MARRIOTT DESIGN REVIEW 100% DD | 11/06/2017 | 100% DD SUBMISSION CD 01/08/2018 ISSUE DATE **FULL SET ISSUES** PROJECT NO: X17017.00 TAD / JDO P.I.C.

DESCRIPTION

REVISION DATE

P MGR. P ENGR. DLS / MRB **DESIGN BY**

SHEET TITLE

LANDSCAPE **DETAILS**

SHEET IDENTIFIER

TREE ISLAND DETAIL

1" = 1'-0"