

VICINITY MAP

SCALE: 1" = 500'

MARTIN LUTHER KING, JR PARK

1120 HILLSBOROUGH RD
CARRBORO, NC 27516

TOWN OF CARRBORO
60% DESIGN DEVELOPMENT

OWNER REVIEW

SUMMARY INFORMATION	
PROJECT NAME:	MARTIN LUTHER KING, JR PARK
SITE ADDRESS:	1120 HILLSBOROUGH ROAD
COUNTY:	ORANGE
PARCEL PIN #:	9779-31-1977
PARCEL OWNER:	TOWN OF CARRBORO
PARCEL AREA:	10.12 Ac
TOTAL DISTURBED/ PROJECT AREA:	6.26 Ac
CURRENT ZONING:	R-15
EXISTING LAND USE:	PARK
PROPOSED USE:	PARK
RIVER BASIN:	CAPE FEAR ; JORDAN LAKE (UNPROTECTED)
CONSTRUCTION TYPE:	PARK
MAX BUILDING HEIGHT:	35'-0"
PROPOSED BUILDING HEIGHT:	
EXISTING IMPERVIOUS AREA:	10,197 S.F.
PROPOSED IMPERVIOUS AREA:	22,053 S.F.
OVERALL PARKING SUMMARY	
REQUIRED PARKING	TBD
PROVIDED PARKING	30 TOTAL
REGULAR 9'X18' SPACES	28
HANDICAP ACCESSIBLE SPACES	2
BIKE PARKING	6
UTILITIES IMPROVEMENTS QTY	
PRIVATE SEWER	
6" SEWER SERVICE	452 LF
PRIVATE WATER	
4" WATER MAIN	403 LF
8" FIRE LINE	179 LF

SHEET INDEX	
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C1.00	EXISTING CONDITIONS PLAN
C2.00	DEMOLITION PLAN
C3.00	SITE PLAN
C4.00	EROSION CONTROL PLAN
C5.00	GRADING PLAN
C9.00	SITE DETAILS
C9.10	EROSION CONTROL DETAILS
L1.00	PLANTING PLAN
L2.00	PLANTING DETAILS

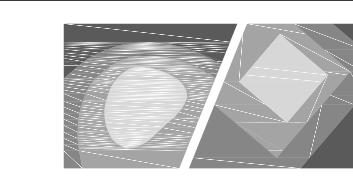


APPLICANT/OWNER



TOWN OF CARRBORO
PARKS AND RECREATION
301 WEST MAIN STREET
CARRBORO, NC 27510
CONTACT: WENDELL RODGERS
919.918.7371 (T)
WRODGERS@TOWNOFCARRBORO.ORG

CIVIL ENGINEERING - LANDSCAPE ARCHITECTURE



STEWART

421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
919.866.4829 (T)
919.380.8752 (F)
JPUCKETT@STEWARTINC.COM

STEWART INC. - CIVIL ENGINEERING
CONTACT: JOSEPH PUCKETT, PE
CIVIL ENGINEER
919.866.4829 (T)
919.380.8752 (F)
JPUCKETT@STEWARTINC.COM

STEWART INC. - LANDSCAPE ARCHITECTURE
CONTACT: JENNIFER WAGNER, RLS
PROJECT MANAGER
919.866.4739 (T)
919.380.8752 (F)
JWAGNER@STEWARTINC.COM

Project number: C16146

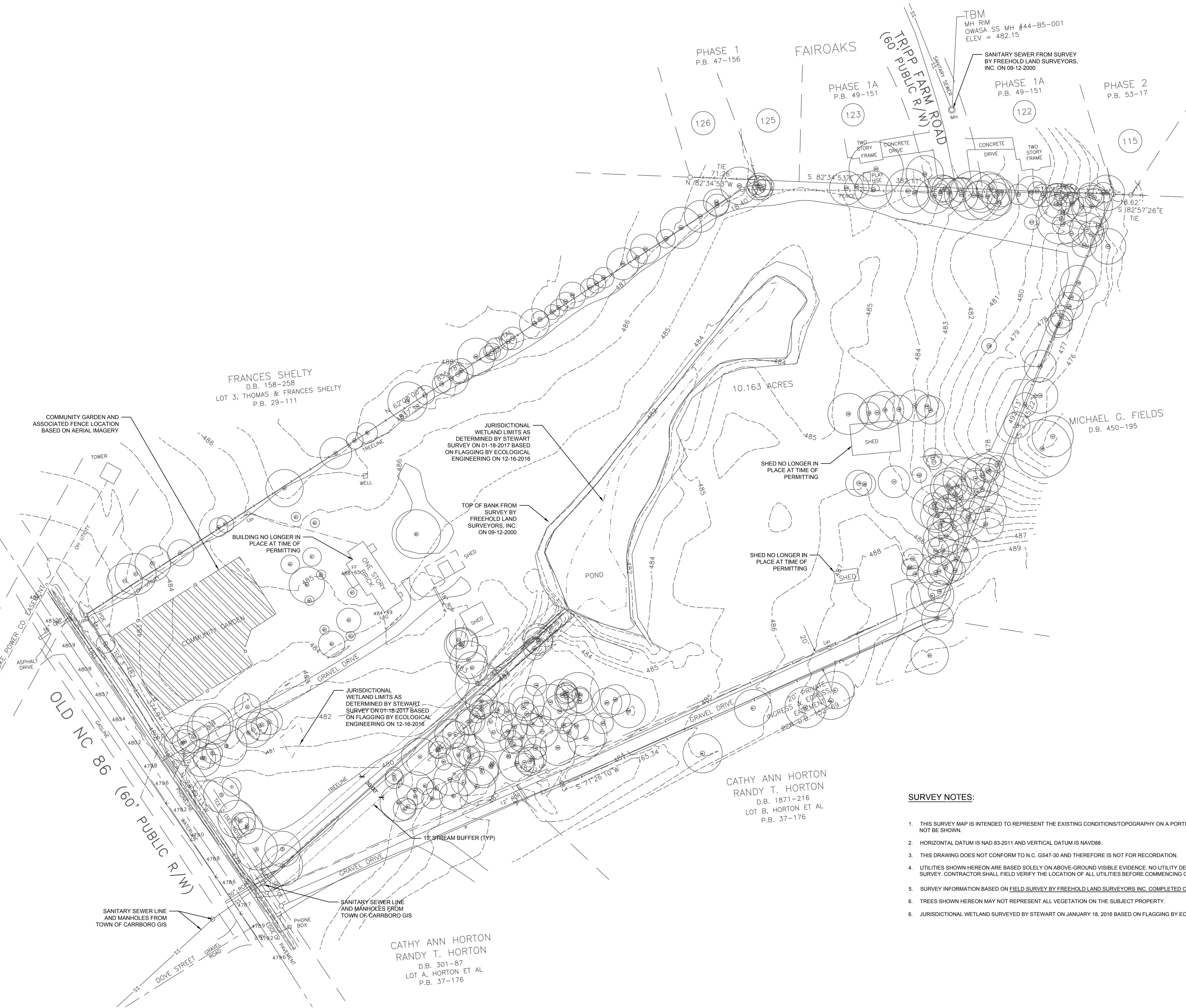
Date: 02.27.2017

Drawn by: T. GULL

Designed by: T.GULL

Revisions:
No. Date Description

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SURVEY LEGEND:

▲	SURVEY CONTROL POINT
● EIP	EXISTING IRON PIPE
□ ECM	EXISTING CONCRETE MONUMENT
▲	COMPUTED POINT
◎	STORM DRAIN MANHOLE
■	STORM DRAIN CURB INLET
◎	SANITARY SEWER MANHOLE
◎	SANITARY SEWER CLEANOUT
■	SANITARY FORCemain VALVE
■	HYDRANT
WV WM	WATER VALVE
WM	WATER METER
W	WATER MANHOLE
W	WATER VAULT
W GV	WELL
W	GAS VALVE
GM	GAS METER
①	TELEPHONE MANHOLE
TPED	TELEPHONE PEDESTAL
TV	TV MANHOLE
CATV	TV PEDESTAL
FOWP	FIBER OPTIC WITNESS POST
FO	FIBER OPTIC BOX
E	ELECTRIC MANHOLE
EM	ELECTRIC METER
EB	ELECTRIC BOX
♂	UTILITY POLE
—○	GUY POLE
~	GUY WIRE
○	LIGHT POLE
MH	MANHOLE
TS	TRAFFIC SIGNAL BOX
○ MW BOR	TRAFFIC SIGNAL POST
MW	MONITORING WELL
BOR	BORING LOCATION
●	BOLLARD
FF=267.18'	SIGN
	FINISHED FLOOR ELEVATION
○	DECIDUOUS TREE
○	EVERGREEN TREE
○	BUSH
— X —	WIRE FENCE
— O —	CHAIN LINK FENCE
— T —	UNDERGROUND TELEPHONE LINE
— FO —	UNDERGROUND FIBER OPTIC LINE
— G —	UNDERGROUND GAS LINE
— E —	UNDERGROUND ELECTRIC LINE
— W —	UNDERGROUND WATER LINE
— SS —	SANITARY SEWER LINE
= = =	STORM DRAIN LINE
— OHW —	OVERHEAD WIRES
— U —	UNIDENTIFIED LINE
— — —	UNKNOWN DESTINATION
—	CONCRETE SURFACE
DIP	DUCTILE IRON PIPE
PVC	POLYVINYL CHLORIDE PIPE
HDPE	HIGH-DENSITY POLYETHYLENE PIPE
RCP	REINFORCED CONCRETE PIPE
CMP	CORRUGATED METAL PIPE
CB	CATCH BASIN

Vicinity map:

PATHWAY DR

JAMES ST

HILLSBOROUGH ROAD

RAINBOW DR

CAROL ST

BLUERIDGE RD

SPRING VALLEY RD

SITE

Seal:

PRELIMINARY - DO NOT
USE FOR CONSTRUCTION

Issue

11

EXISTING CONDITIONS

Project number: --- Sheet:
Date: 03.10.2017
Drawn by: NBC
Approved by: J.W.

C1 00

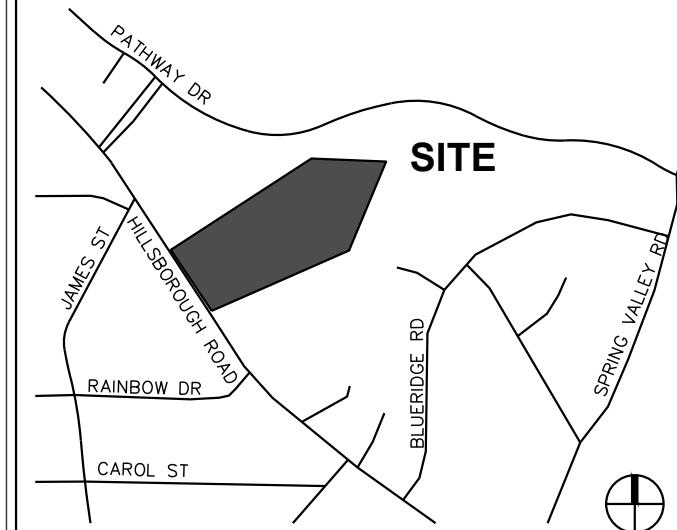
Client

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7364
F: (919) 918-4475

Projekt

MARTIN LUTHER KING, JR. PARK

Vicin

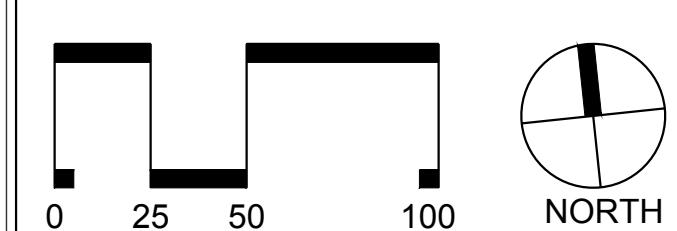


Seal



PRELIMINARY - DO NOT
USE FOR CONSTRUCTION

Issue



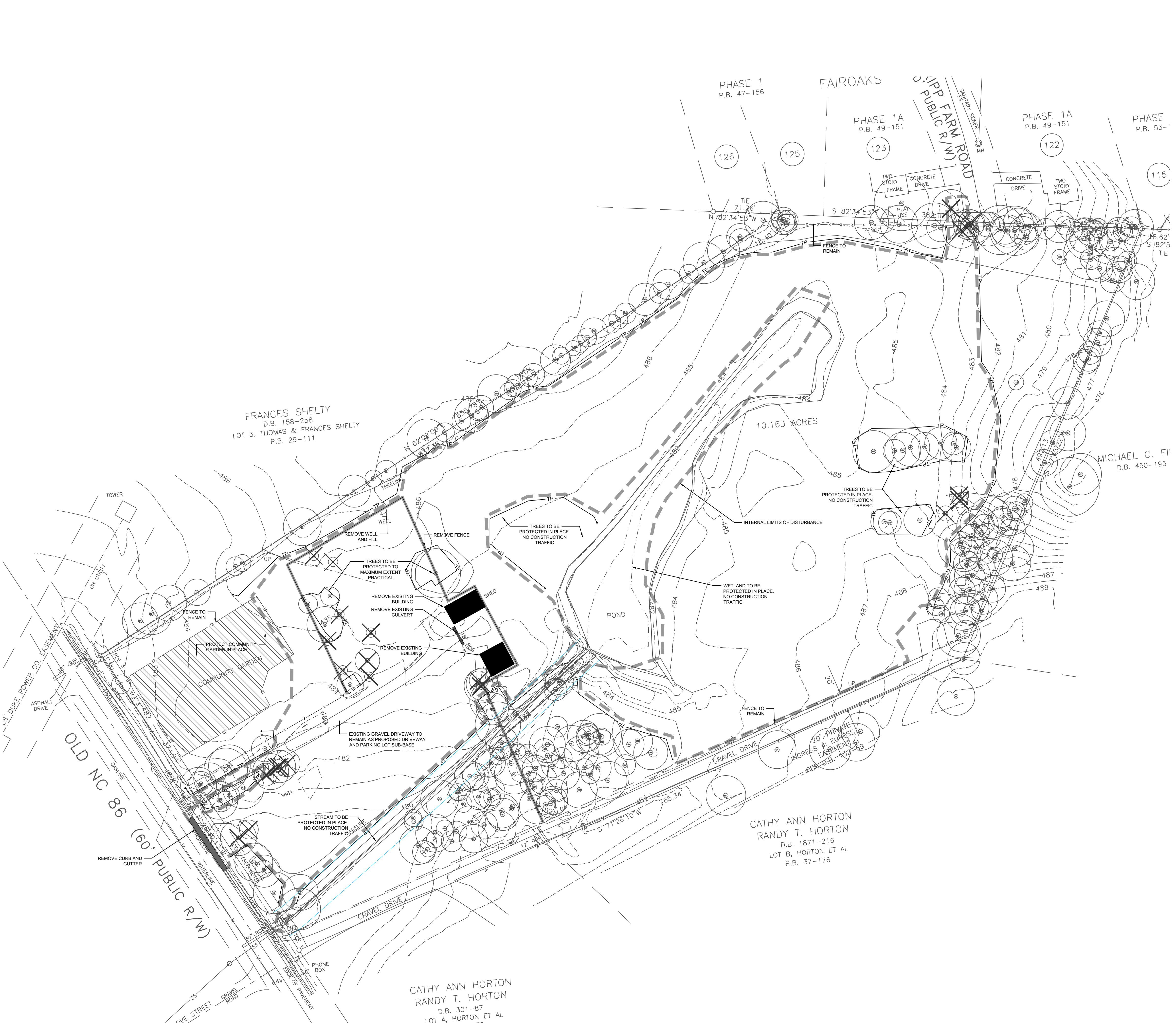
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DEMOLITION PLAN

Project number: C16146 Sheet:
Date: 03.10.2017

C2.00

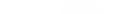
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DEMOLITION LEGEND

 REMOVE BUILDING

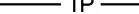
 W REMOVE WATER LINE

 SS REMOVE SANITARY SEWER LINE

 REMOVE STORM DRAINAGE

 X REMOVE FENCE

 TP TREE PROTECTION FENCE

 LIMITS OF DISTURBANCE

 COORDINATE LIGHT POLE REMOVAL

 REMOVE TREE

 REMOVE TREELINE

 REMOVE CURB & GUTTER

 REMOVE SIGN

DEMOLITION NOTES:

1. REFER TO SHEET C3.00 FOR GENERAL NOTES.
2. CLEANOUTS AND WATER VALVES LOCATED IN AREAS OF DEMOLITION OR SUBSEQUENT CONSTRUCTION SHALL BE PROTECTED FROM DAMAGE AND RAISED TO BE FLUSH WITH NEW GRADE.
3. 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.
4. 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 PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL."
5. CLEAN SOILS SHALL BE UTILIZED FOR BACKFILL. COMPACTION OF THESE SOILS SHALL BE PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
6. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE REMOVED COMPLETELY, INCLUDING ALL SUBGRADE MATERIALS DIRECTLY ASSOCIATED WITH ITEMS TO BE REMOVED.
7. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE DISPOSED OF LEGALLY OFF-SITE UNLESS OTHERWISE NOTED ON THIS PLAN.
8. REFER TO LANDSCAPE AND EROSION CONTROL DRAWINGS FOR TREE PROTECTION PLAN AND REQUIREMENTS.
9. ALL DEMOLITION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL JURISDICTIONAL CODES OR REQUIREMENTS.
10. TREE PROTECTION FENCING SHALL BE IN PLACE PRIOR TO BEGINNING DEMOLITION
11. EROSION CONTROL PERMIT SHALL BE OBTAINED AND ONSITE PRIOR TO BEGINNING DEMOLITION.
12. ITEMS DESIGNATED TO BE SALVAGED AND/OR RE-USED SHALL BE REMOVED BY THE 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 EXECUTE 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.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL DAMAGES TO THE EXISTING SIDEWALK AND CURB AND GUTTER AS A RESULT OF CONSTRUCTION ACTIVITY AND TRAFFIC. CONTRACTOR SHALL MAINTAIN A PRE-CONSTRUCTION VIDEO OR PHOTO DOCUMENTATION TO SHOW NO DAMAGES OCCURRED.
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 JURISDICTION OR UTILITY OWNER.
19. CONTRACTOR SHALL PROVIDE PEDESTRIAN INGRESS / EGRESS TO ALL EXISTING PARKING LOTS AND PATHS OF PEDESTRIAN TRAVEL THROUGHOUT

EROSION CONTROL NOTES:

1. 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. THE OWNER IS RESPONSIBLE FOR MAINTENANCE OF ALL PERMANENT EROSION CONTROL METHODS AFTER CONSTRUCTION IS COMPLETE, IF ANY PERMANENT METHODS ARE REQUIRED.

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 UNTIL ALL CONSTRUCTION IS APPROVED.

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 ADJACENT PROPERTIES IS MINIMIZED.

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 OWNERS REPRESENTATIVE TWICE PER WEEK AND AFTER RAINS OF GREATER THAN 0.5" RAIN GAUGE REQUIRED ON SITE.

11. ANY AREAS OF EXPOSED SEDIMENT THAT WILL NOT BE DISTURBED FOR FOURTEEN DAYS SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).

12. 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.

13. AT NO TIME SHALL SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEARED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.

14. 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.

15. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE A MINIMUM THICKNESS OF 2 TO 3 INCHES.

16. INTERIM SLOPES MAY BE GRADED TO A MAXIMUM SLOPE OF 2:1 (HORIZONTAL: VERTICAL). CUT SLOPES SHALL BE LIMITED TO A MAXIMUM SLOPE OF 1:5:1.

17. 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 EXISTING SURFACE. INTERIM FILL SHALL BE PLACED AS SPECIFIED FOR PERMANENT FILLS AND IN LIFTS NOT GREATER THAN 6".

18. 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.

19. SEDIMENT RUNOFF FROM EXCAVATIONS SHALL NOT BE PUMPED DIRECTLY TO STORM DRAINAGE.

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 ENVIRONMENT, HEALTH AND NATURAL RESOURCES LAND QUALITY SECTION EROSION AND SEDIMENT CONTROL PLANNING LAND DESIGN MANUAL.

22. 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 NOTIFY THE STATE LAND RESOURCES SECTION TO ESTABLISH AND MAINTAIN ACCORDING WITH NCGS 113A-54.1 AND 15A NCAC 48.0131 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.NR.STATE.NC.US/PAGES/SEDIMENTATION_NEW.HTML](http://WWW.DLR.NR.STATE.NC.US/PAGES/SEDIMENTATION_NEW.HTML)

SEQUENCE OF CONSTRUCTION ACTIVITIES:

1. OBTAIN GRADING PERMIT.
2. DETERMINE AND MARK LIMITS OF DISTURBANCE.
3. A PRECONSTRUCTION CONFERENCE MUST BE HELD 48 HOURS PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES. THE EROSION CONTROL INSPECTOR, ARCHITECT, ENGINEER, AND CONTRACTOR SHALL BE PRESENT TO SATISFY REQUIREMENTS.
4. INSTALL CONSTRUCTION ENTRANCE, TREE PROTECTION FENCING, SILT FENCE, PERIMETER EROSION CONTROL DEVICES AND ALL REQUIRED BASINS AND TRAPS.
5. SCHEDULE SITE INSPECTION.
6. UPON APPROVAL TO PROCEED BY THE EROSION CONTROL INSPECTOR, HARVEST ANY TIMBER.
7. CONSTRUCT REMAINING EROSION CONTROL MEASURES AS REQUIRED.
8. REMOVE AND/OR STORE TOPSOIL.
9. BEGIN GRADING OPERATIONS.
10. CLEAN SEDIMENT BASINS/TRAPS WHEN ONE-HALF FULL.
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 LONGER.
13. 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.
14. 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, SMOOTH AREA AND APPLY APPROPRIATE STABILIZATION.
15. STORMWATER PERMIT INSPECTION REPORTS SHALL BE PERFORMED BY THE CONTRACTOR UNTIL NOTIFIED OTHERWISE BY THE EROSION CONTROL INSPECTOR.

NOTES:

1. 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.
2. CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES SHALL CONFORM TO THE STANDARDS SET FORTH IN THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES LAND QUALITY SECTION EROSION AND SEDIMENT CONTROL PLANNING LAND DESIGN MANUAL.
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TEMPORARY SEEDBED PREPARATION:

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL THREE INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
2. RIP THE ENTIRE AREA TO SIX INCHES DEEP.
3. REMOVE ALL LOOSE ROCK, ROOTS AND OTHER OBSTRUCTIONS, LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME, FERTILIZER AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE ADMIXTURE BELOW).
5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED FOUR TO SIX INCHES DEEP.
6. SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
8. INSPECT ALL SEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE MORE THAN 60% DAMAGED, RE-ESTABLISH FOLLOWING THE ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
9. CONSULT S&EC ENVIRONMENTAL ENGINEERS ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

SEEDBED PREPARATION:

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONED, IF AVAILABLE.
2. RIP THE ENTIRE AREA TO 6 INCHES DEPTH.
3. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
4. APPLY ALL AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE BELOW).
5. CONTINUE TILLAGE UNTIL A WELL PULVERIZED, FIRM, REASONABLY UNIFORM 4 TO 6 INCHES DEEP SEEDBED IS PREPARED.
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 SEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 60% DAMAGED, RE-ESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
9. INSPECT ALL SEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDING WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 50% DAMAGED, RE-ESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES AND LANDSCAPING PLANS.
10. SEE LANDSCAPING PLANS FOR PERMANENT SEEDING, MULCHING, AND FERTILIZING RATES. ALL AREAS NOT DESIGNATED TO RECEIVE PLANTS SHALL BE SEDED PER THE LANDSCAPING PLANS.

ADMIXTURES

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

TREE PROTECTION NOTES:

1. TREE PROTECTION FENCING MUST BE IN PLACE PRIOR TO ANY DEMOLITION, LAND DISTURBANCE OR ISSUANCE OF A GRADING PERMIT. OR OBTAIN A GRADING PERMIT THEN TREE PROTECTION FENCING MUST BE IN PLACE PRIOR TO ANY DEMOLITION, LAND DISTURBANCE
2. TREE PROTECTION FENCING SHALL INCLUDE WARNING SIGNS POSTED IN BOTH ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSING/TREE PROTECTION AREA/PROHIBIDO ENTRAR / ZONA PROTECTORA PARA LOS ARBOLES."
3. PROTECTION OF EXISTING VEGETATION: AT THE START OF GRADING INVOLVING THE LOWERING OF EXISTING GRADE AROUND A TREE OR STRIPPING OF TOPSOIL, A LEAN, SHARP VERTICAL CUT SHALL BE MADE AT THE EDGE ON THE TREE ROOTS OUTSIDE OF THE TREE SAVE AREA. THIS SHALL OCCUR AT THE SAME TIME THAT OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE.
4. NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED TREE AREA.
5. TREE PROTECTION AREA: EQUALS ONE FOOT OF RADIUS FOR EVERY INCH OF DIAMETER OF EXISTING TREES, OR SIX FOOT RADIUS, WHICHEVER IS GREATER. NO DISTURBANCE ALLOWED WITHIN THIS AREA.

SEEDING SCHEDULE

SHOULDERS, SIDE DITCHES, SLOPES (Max 3:1)		
DATE	TYPE	PLANTING RATE
AUG 15 - NOV 1	TALL FESCUE	300 LBS/ACRE
NOV 1 - MAR 1	***ABRUZZI RYE	20 LBS/ACRE
MAR 1 - APR 15	TALL FESCUE	300 LBS/ACRE
APR 15 - JUN 30	HULLED COMMON BERMUDAGRASS	25 LBS/ACRE
JUL 1 - AUG 15	TALL FESCUE AND ***BROWNTOP MILLET	100 LBS/ACRE
***BROWNTOP MILLET	35 LBS/ACRE	
***SORGHUM-SUDAN HYBRIDS	30 LBS/ACRE	

SLOPES (3:1 to 2:1)		
DATE	TYPE	PLANTING RATE
MAR 1 - JUN 1 (MAR 1 - APR 15)	***BROWNTOP MILLET ADD TALL FESCUE OR ADD HULLED COMMON BERMUDAGRASS	50 LBS/ACRE 30 LBS/ACRE (MAY 1 - JUN 30) 25 LBS/ACRE
JUN 1 - SEP 1	***TALL FESCUE ***BROWNTOP MILLET ***SORGHUM-SUDAN HYBRIDS	120 LBS/ACRE 35 LBS/ACRE 30 LBS/ACRE
SEP 1 - MAR 1	ANNUAL RYER AND TALL FESCUE ADD ABRUZZI RYE	70 LBS/ACRE 100 LBS/ACRE (NOV 1 - MAR 1) 25 LBS/ACRE

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.

***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.

SEDIMENTATION BASIN SIZING

BASIN ID	BASIN GEMOETRY						OUTLET	SKIMMER CHARACTERISTICS			SURFACE AREA (SF)	VOLUME (CF)	DEWATERING TIME						
	BOTTOM WIDTH	TOP WIDTH	SURFACE WIDTH	DAM HEIGHT	SIDE SLOPES	STORAGE DEPTH		STONE WIDTH	SIDE SLOPES	SIZE				HEAD	ORIFICE				
Sed Basin 1	13.0 ft	38.0 ft	31.0 ft	56.0 ft	25.0 ft	50.0 ft	4.5 ft	2:1	3.0 ft	4.0 ft	2:1	3.0 in	0.3 ft	1.00 in	958	2,207.00	2,196.00	2,202.00	2 days
Sed Basin 2	13.0 ft	38.0 ft	31.0 ft	56.0 ft	25.0 ft	50.0 ft	4.5 ft	2:1	3.0 ft	4.0 ft	2:1	3.0 in	0.3 ft	0.75 in	864	1,250.00	1,980.00	2,616.00	4 days

DIVERSION DITCH SIZING

Channel	Bottom Width (Y)	Sideslope (M)	Top Width (W)	Lining			Channel Depth (FT)	Velocity
DD-01	0.00 FT	2 : 1	4 FT	STRAW SINGLE NET BLANKET			0.65 FT	4.31 FT/S
DD-02	0.00 FT	2 : 1	4 FT	STRAW SINGLE NET BLANKET			0.7 FT	4.42 FT/S
DD-03	0.00 FT	2 : 1	4 FT	STRAW SINGLE NET BLANKET			0.65 FT	2.97 FT/S
DD-04	0.00 FT	2 : 1	4 FT	STRAW SINGLE NET BLANKET			0.45 FT	3.29 FT/S

TOTAL AREA OF DISTURBANCE
5.86 AC

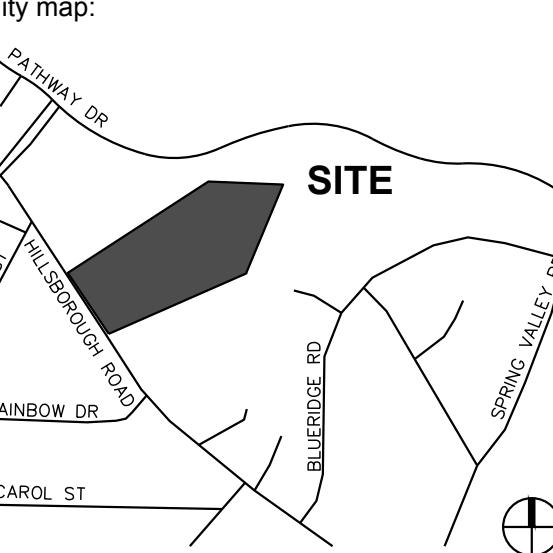
EROSION CONTROL NOTES

Project number: C4.00
Date: 03.10.2017
Drawn by: CJJ
Approved by: JWP

STEWART
421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
www.stewartinc.com
FIRM LICENSE # C-1051
PROJECT # C16146

Client:
TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7364
F: (919) 918-4475

Project:
MARTIN LUTHER KING, JR. PARK

Vicinity map:


Seal:


PRELIMINARY - DO NOT USE FOR CONSTRUCTION

Issued for:
60% DESIGN DEVELOPMENT

No. Date Description

1. 03/10/2017 CJJ

2. 03/10/2017 CJJ

3. 03/10/2017 CJJ

4. 03/10/2017 CJJ

5. 03/10/2017 CJJ

6. 03/10/2017 CJJ

7. 03/10/2017 CJJ

8. 03/10/2017 CJJ

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46. 03/10/2017 CJJ

47. 03/10/2017 CJJ

48. 03/10/2017 CJJ</

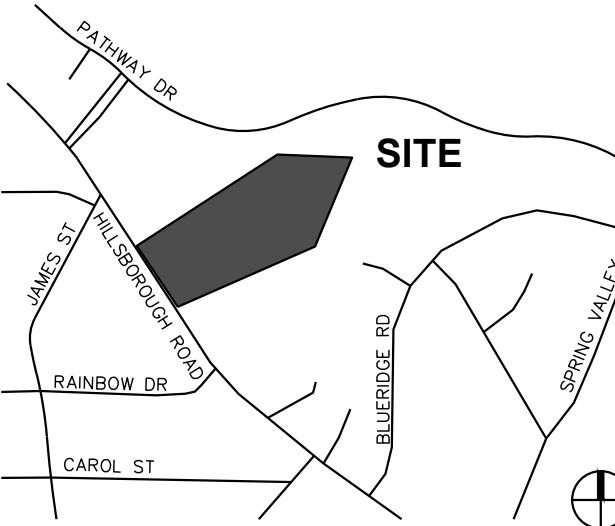
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Project:

MARTIN LUTHER KING, JR. PARK

Vicinity n



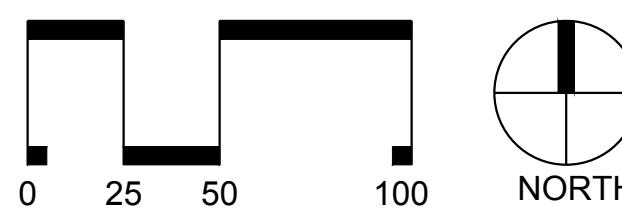
Seal:



PRELIMINARY - DO NOT
USE FOR CONSTRUCTION

Issued for

60% DESIGN DEVELOPMENT



SCALE

EROSION CTRL PHASE 1

Project number: ---- Sheet:
Date: 03.10.2017
Drawn by: NBC
Approved by: JWP C4

**TOTAL AREA OF DISTURBANCE
5.86 AC**

C4 01

EROSION CONTROL LEGEND

— SF —	SILT FENCE
— TP —	TREE PROTECTION
— DD —	DIVERSION DITCH
— — —	LIMITS OF DISTURBANCE
	HORSE SHOE INLET PROTECTION
	SILT FENCE OUTLET
	CHECK DAM
	FLARED END SECTION (FES)
	SEDIMENT TRAP
	RIPRAP DISSIPATER
	TEMPORARY CONSTRUCTION ENTRANCE
— — —	100 YR FLOOD ELEV.

ALL CONSTRUCTION SHALL BE IN
ACCORDANCE WITH NORTH CAROLINA
EROSION CONTROL SPECIFICATIONS

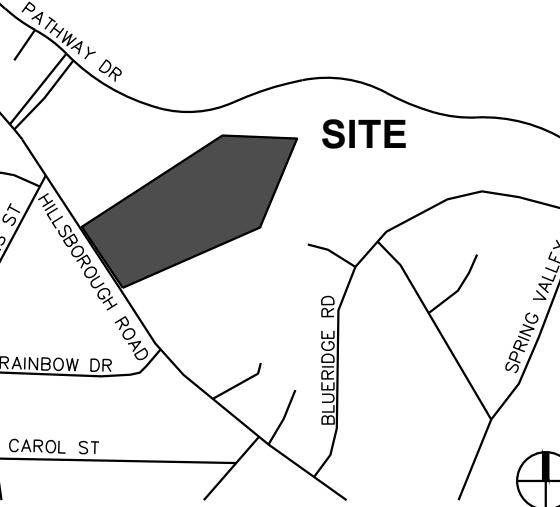
Client

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301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7364
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Projekt

MARTIN LUTHER KING, JR. PARK

Vicin



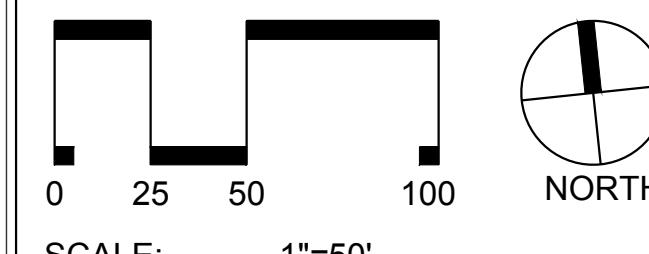
Seal



PRELIMINARY - DO NOT
USE FOR CONSTRUCTION

Issue

60% DESIGN DEVELOPMENT



11

EROSION CONTROL PHASE 2

**TOTAL AREA OF DISTURBANCE
5.86 AC**

C4 02