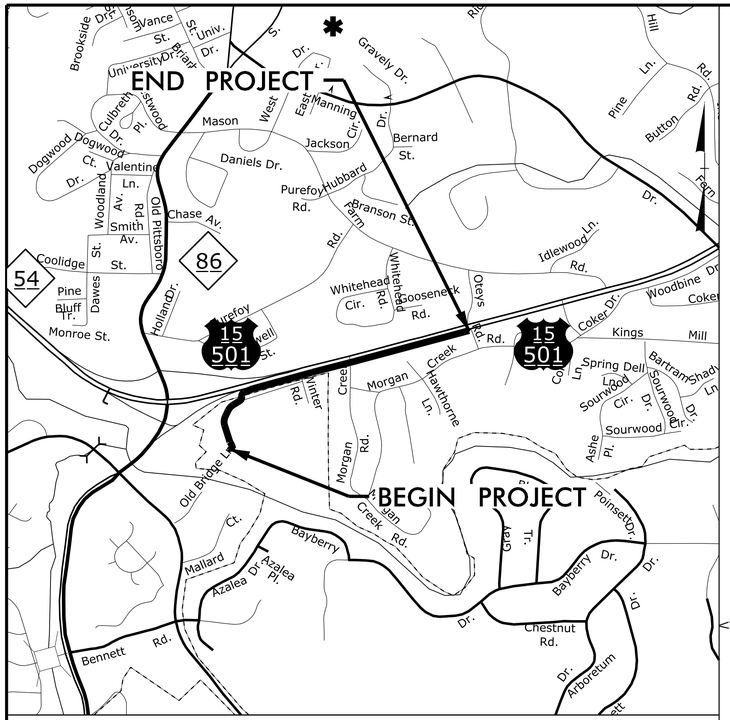
TOWN OF CHAPEL HILL
NORTH CAROLINA

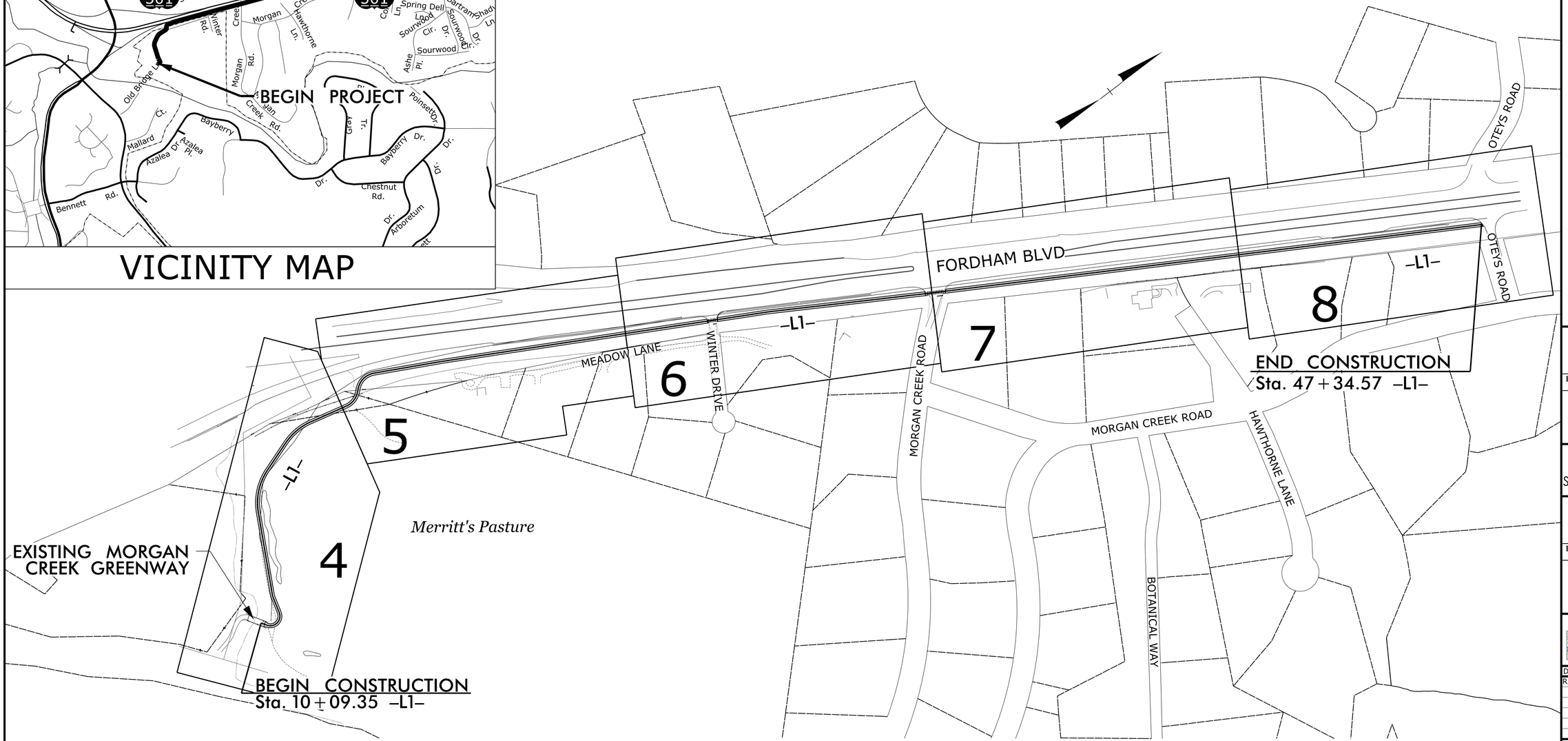
MORGAN CREEK GREENWAY - PHASE 1

TYPE OF WORK:
GRADING, PAVING, STRUCTURES, DRAINAGE,
RETAINING WALLS, CULVERTS & EROSION CONTROL

INDEX OF SHEETS



VICINITY MAP



25% SUBMITTAL

METHOD OF GRADING:
CLEARING ON THIS PROJECT SHALL BE TO LIMITS ESTABLISHED USING METHOD II.

DESIGN DATA	*PROJECT LENGTH*	*GRAPHIC SCALES*
DESIGN SPEED = 20 MPH LEAN ANGLE = 15 DEGREES FUNC. CLASSIFICATION = GREENWAY	LENGTH OF PROJECT = 0.71 MILES	PLANS 30 15 0 30 60 PROFILE (HORIZONTAL) 30 15 0 30 60 PROFILE (VERTICAL) 6 3 0 6 12

TOWN OF CHAPEL HILL

MORGAN CREEK
GREENWAY PHASE 1

GREENWAY ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

Firm License No: C-1051
421 Fayetteville St.
Suite 1000
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T 919.380.8750
www.stewartinc.com
STEWART

HYDRAULICS ENGINEER

PRELIMINARY PLANS
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NC FIRM LICENSE No: C-1148
1151 SE Cary Parkway
Suite 101
Cary, NC 27518
(919) 557-0929
ECOLOGICAL ENGINEERING

DATE: DECEMBER 14, 2016

REVISIONS:

NO.	DATE

PROJECT NO.:
A16007.00

SCALE: NTS

1

NOTES

GENERAL NOTES

1 THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE JANUARY 2012 NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.

2 WHERE ASPHALT SECTION IS REMOVED, CONTRACTOR SHALL USE A SAW CUT AT THE LIMITS OF DEMOLITION TO OBTAIN A CLEAN EDGE.

3 NO GRADING IS TO OCCUR IN THE TREE PROTECTION AREAS OR TREE CRITICAL ROOT ZONES.

4 THE CONTRACTOR MUST, AT ALL TIMES, KEEP THE PREMISES FREE FROM ACCUMULATIONS OF WASTE MATERIALS OR RUBBISH CAUSED BY HIM, HIS EMPLOYEES, OR HIS WORK. ALL DEBRIS SHALL BE REMOVED FROM THE SITE ON A DAILY BASIS.

5 EXISTING UTILITIES AND STRUCTURES SHOWN BOTH UNDERGROUND AND ABOVE ARE BASED ON THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BEGINNING RELATED CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE IMMEDIATELY.

6 CONTRACTOR SHALL LOCATE ALL UTILITIES AND UTILITY ELEVATIONS PRIOR TO CONSTRUCTION. ALL UTILITIES TO REMAIN SHALL BE PROTECTED BY THE CONTRACTOR. ANY UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY CONTRACTOR AT HIS EXPENSE.

7 CONTRACTOR SHALL RESTORE ALL LAY DOWN AND STAGING AREAS TO ORIGINAL CONDITIONS AND TO THE SATISFACTION OF THE OWNER, PRIOR TO DEMOBILIZATION AT THE CONCLUSION OF THE PROJECT.

8 ANY EXCAVATION MUST BE FILLED IN AND TAMPED AT THE CONCLUSION OF EACH WORK PERIOD, AND EQUIPMENT AND SUPPLIES RETURNED TO THE CONSTRUCTION STAGING AREA.

9 ORANGE CONSTRUCTION/SAFETY FENCING REMOVED TO FACILITATE ACCESS BY THE CONTRACTOR FOR CONSTRUCTION MUST BE REPLACED AT THE END OF EACH WORK PERIOD TO DIRECT PEDESTRIAN AND VEHICULAR TRAFFIC AWAY FROM HAZARDOUS AREAS.

10 CONTRACTOR SHALL STAKE CENTERLINE OF TRAIL ACCORDING TO PLANS AND OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE RESOLVED PRIOR TO CONSTRUCTION.

11 CONTRACTOR SHALL VERIFY ALL STATIONING FOR APPLICABILITY TO EXISTING CONDITIONS PRIOR TO CONSTRUCTION. DEVIATION FROM ALIGNMENT DUE TO LARGE TREES OR OTHER OBSTACLES ETC SHALL BE APPROVED BY THE TOWN OF CHAPEL HILL AND THE ENGINEER OF RECORD.

12 CONTRACTOR SHALL REVIEW TREE REMOVAL WITH OWNER'S REPRESENTATIVE AND OBTAIN APPROVAL PRIOR TO TREE REMOVAL. TRIM UP BRANCHES OF TREES TO PROVIDE 10' VERTICAL CLEARANCE ABOVE PAVEMENT SURFACE.

13 THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH PROJECT AS SET FORTH IN THESE PLANS. IF DEPARTURES FROM THE SPECIFICATIONS OR DRAWINGS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREOF SHALL BE SUBMITTED TO THE OWNER IN WRITING FOR REVIEW. NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE WRITTEN PERMISSION OF THE OWNER.

14 TREES AND PLANTS WILL NOT BE DAMAGED OR REMOVED IN ORDER TO SERVICE AND MAINTAIN THE UTILITY, SIDEWALK, GREENWAY OR OTHER SIMILAR FEATURE

15 SUPERELEVATION TRANSITION IS SHOWN ON THE PLAN VIEW.

2012 NCDOT ROADWAY ENGLISH STD. DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" HIGHWAY DESIGN BRANCH - N.C. DEPARTMENT OR TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 17, 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

DIVISION 2 - EARTHWORK
200.02 Method of Clearing
DIVISION 3 - PIPE CULVERTS
300.01 Method of Pipe Installation
DIVISION 8 - INCIDENTALS
840.01 Brick Catch Basin
840.02 Concrete Catch Basin
840.03 Frame, Grates, and Hood
840.14 Concrete Drop Inlet
840.15 Brick Drop Inlet
840.16 Drop Inlet Frame & Grates
848.01 Concrete Sidewalk
876.02 Guide for Rip Rap at Pipe Outlets
DIVISION 9 - SIGNING
904.50 Mounting of Type D, E, and F Signs on U Channel Posts
DIVISION 12 - PAVEMENT MARKINGS, MARKERS, AND DELINEATION
1205.01 Pavement Markings
DIVISION 16 - EROSION CONTROL AND ROADSIDE DEVELOPMENT
See Sheet EC-1

ADDITIONAL NCDOT STANDARDS NOT ON THE LIST ABOVE MAY BE REQUIRED AS PER PLAN DETAILS AND SPECIFICATIONS.

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GREENWAY PHASE 1

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STEWART

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A16007.00

SCALE:

1A

04/06/15

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale **S.U.E. = Subsurface Utility Engineering*

BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin — EIP
- Property Corner
- Property Monument — ECM
- Parcel/Sequence Number — 123
- Existing Fence Line
- Proposed Woven Wire Fence
- Proposed Chain Link Fence
- Proposed Barbed Wire Fence
- Existing Wetland Boundary — WLB
- Proposed Wetland Boundary — WLB
- Existing Endangered Animal Boundary — EAB
- Existing Endangered Plant Boundary — EPB
- Existing Historic Property Boundary — HPB
- Known Contamination Area: Soil — S
- Potential Contamination Area: Soil — S
- Known Contamination Area: Water — W
- Potential Contamination Area: Water — W
- Contaminated Site: Known or Potential

BUILDINGS AND OTHER CULTURE:

- Gas Pump Vent or U/G Tank Cap
- Sign — S
- Well — W
- Small Mine
- Foundation
- Area Outline
- Cemetery
- Building
- School
- Church
- Dam

HYDROLOGY:

- Stream or Body of Water
- Hydro, Pool or Reservoir
- Jurisdictional Stream — JS
- Buffer Zone 1 — BZ 1
- Buffer Zone 2 — BZ 2
- Flow Arrow
- Disappearing Stream
- Spring
- Wetland
- Proposed Lateral, Tail, Head Ditch — FLOW
- False Sump

RAILROADS:

- Standard Gauge — CSX TRANSPORTATION
- RR Signal Milepost — MILEPOST 35
- Switch — SWITCH
- RR Abandoned
- RR Dismantled

RIGHT OF WAY:

- Baseline Control Point
- Existing Right of Way Marker
- Existing Right of Way Line
- Proposed Right of Way Line — RW
- Proposed Right of Way Line with Iron Pin and Cap Marker — RW
- Proposed Right of Way Line with Concrete or Granite R/W Marker — RW
- Proposed Control of Access Line with Concrete C/A Marker — CA
- Existing Control of Access — CA
- Proposed Control of Access — CA
- Existing Easement Line — E
- Proposed Temporary Construction Easement — E
- Proposed Temporary Drainage Easement — TDE
- Proposed Permanent Drainage Easement — PDE
- Proposed Permanent Drainage / Utility Easement — DUE
- Proposed Permanent Utility Easement — PUE
- Proposed Temporary Utility Easement — TUE
- Proposed Aerial Utility Easement — AUE
- Proposed Permanent Easement with Iron Pin and Cap Marker

ROADS AND RELATED FEATURES:

- Existing Edge of Pavement
- Existing Curb
- Proposed Slope Stakes Cut — C
- Proposed Slope Stakes Fill — F
- Proposed Curb Ramp — CR
- Existing Metal Guardrail
- Proposed Guardrail
- Existing Cable Guiderail
- Proposed Cable Guiderail
- Equality Symbol
- Pavement Removal

VEGETATION:

- Single Tree
- Single Shrub
- Hedge
- Woods Line

- Orchard
- Vineyard — Vineyard

EXISTING STRUCTURES:

MAJOR:

- Bridge, Tunnel or Box Culvert — CONC
- Bridge Wing Wall, Head Wall and End Wall — CONC WW

MINOR:

- Head and End Wall — CONC HW
- Pipe Culvert
- Footbridge
- Drainage Box: Catch Basin, DI or JB — CB
- Paved Ditch Gutter
- Storm Sewer Manhole — S
- Storm Sewer — S

UTILITIES:

POWER:

- Existing Power Pole
- Proposed Power Pole
- Existing Joint Use Pole
- Proposed Joint Use Pole
- Power Manhole — P
- Power Line Tower
- Power Transformer
- U/G Power Cable Hand Hole
- H–Frame Pole
- U/G Power Line LOS B (S.U.E.*) — P
- U/G Power Line LOS C (S.U.E.*) — P
- U/G Power Line LOS D (S.U.E.*) — P

TELEPHONE:

- Existing Telephone Pole
- Proposed Telephone Pole
- Telephone Manhole — T
- Telephone Pedestal — T
- Telephone Cell Tower
- U/G Telephone Cable Hand Hole — HH
- U/G Telephone Cable LOS B (S.U.E.*) — T
- U/G Telephone Cable LOS C (S.U.E.*) — T
- U/G Telephone Cable LOS D (S.U.E.*) — T
- U/G Telephone Conduit LOS B (S.U.E.*) — TC
- U/G Telephone Conduit LOS C (S.U.E.*) — TC
- U/G Telephone Conduit LOS D (S.U.E.*) — TC
- U/G Fiber Optics Cable LOS B (S.U.E.*) — T FO
- U/G Fiber Optics Cable LOS C (S.U.E.*) — T FO
- U/G Fiber Optics Cable LOS D (S.U.E.*) — T FO

WATER:

- Water Manhole — W
- Water Meter
- Water Valve
- Water Hydrant
- U/G Water Line LOS B (S.U.E*) — W
- U/G Water Line LOS C (S.U.E*) — W
- U/G Water Line LOS D (S.U.E*) — W
- Above Ground Water Line — A/G Water

TV:

- TV Pedestal — C
- TV Tower
- U/G TV Cable Hand Hole — HH
- U/G TV Cable LOS B (S.U.E.*) — TV
- U/G TV Cable LOS C (S.U.E.*) — TV
- U/G TV Cable LOS D (S.U.E.*) — TV
- U/G Fiber Optic Cable LOS B (S.U.E.*) — TV FO
- U/G Fiber Optic Cable LOS C (S.U.E.*) — TV FO
- U/G Fiber Optic Cable LOS D (S.U.E.*) — TV FO

GAS:

- Gas Valve
- Gas Meter
- U/G Gas Line LOS B (S.U.E.*) — G
- U/G Gas Line LOS C (S.U.E.*) — G
- U/G Gas Line LOS D (S.U.E.*) — G
- Above Ground Gas Line — A/G Gas

SANITARY SEWER:

- Sanitary Sewer Manhole
- Sanitary Sewer Cleanout
- U/G Sanitary Sewer Line — SS
- Above Ground Sanitary Sewer — A/G Sanitary Sewer
- SS Forced Main Line LOS B (S.U.E.*) — FSS
- SS Forced Main Line LOS C (S.U.E.*) — FSS
- SS Forced Main Line LOS D (S.U.E.*) — FSS

MISCELLANEOUS:

- Utility Pole
- Utility Pole with Base
- Utility Located Object
- Utility Traffic Signal Box — S
- Utility Unknown U/G Line LOS B (S.U.E.*) — ?UTL
- U/G Tank; Water, Gas, Oil
- Underground Storage Tank, Approx. Loc. — UST
- A/G Tank; Water, Gas, Oil
- Geoenvironmental Boring
- U/G Test Hole LOS A (S.U.E.*)
- Abandoned According to Utility Records — AATUR
- End of Information — E.O.I.

TOWN OF CHAPEL HILL

MORGAN CREEK GREENWAY PHASE 1

GREENWAY ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

Firm License No. C-1051
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Suite 1400
Raleigh, NC 27601
T 919.380.8750
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STEWART

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NC FIRM LICENSE No: P-1148
1151 SE Gary Parkway
Suite 107
Carrboro, NC 27518
(919) 557-0929
ECOLOGICAL ENGINEERING

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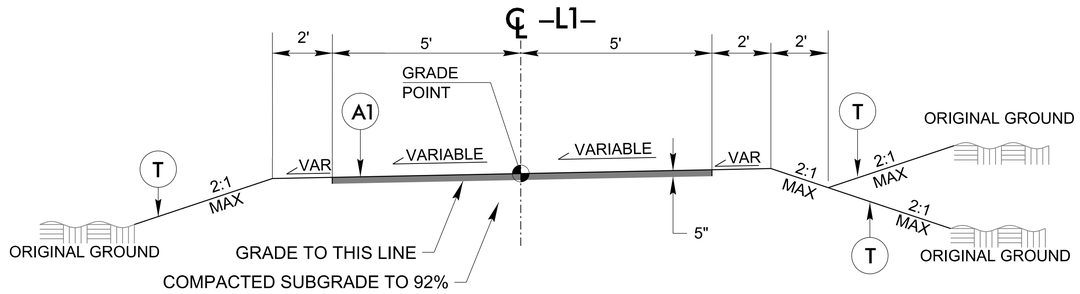
SCALE:

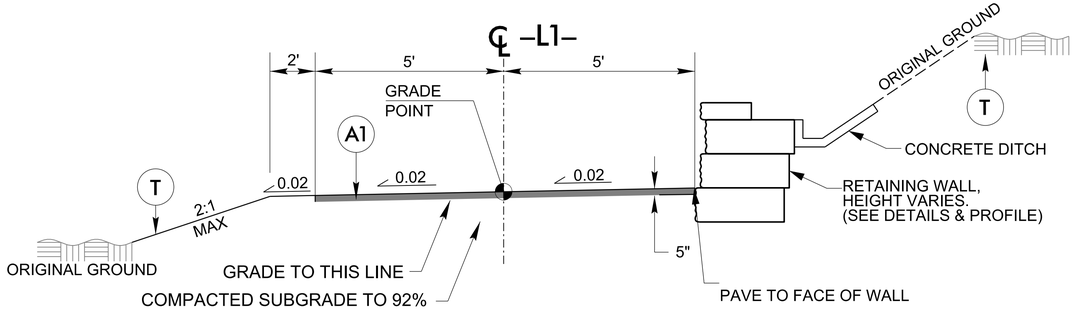
1B

PAVEMENT SCHEDULE	
A1	5″ PORTLAND CEMENT CONCRETE PAVEMENT
T	EARTH MATERIAL.



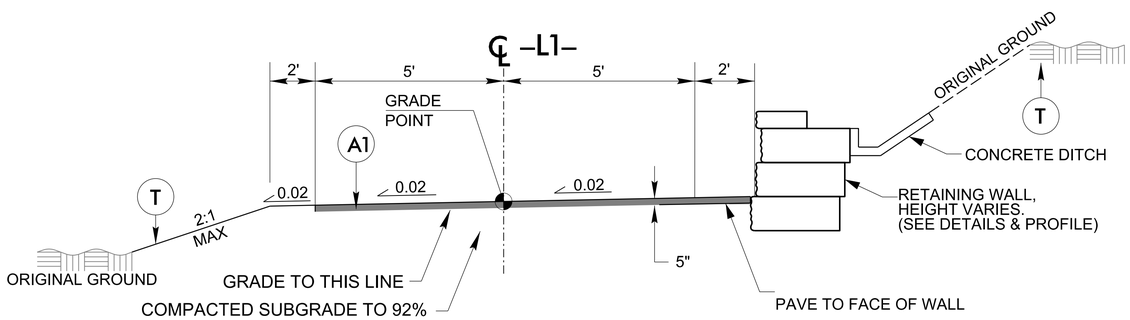
TYPICAL SECTION #1 - 10' CONCRETE MULTI-USE PATH

CHAIN	BEGIN STATION	END STATION
-L1-	STA. 10+00.00	STA. 47+34.57



TYPICAL SECTION #2 - 10' CONCRETE MULTI-USE PATH W/ WALL

CHAIN	BEGIN STATION	END STATION
-L1-	TBD	TBD



TYPICAL SECTION #3 - 10' CONCRETE MULTI-USE PATH W/ WALL

CHAIN	BEGIN STATION	END STATION
-L1-	TBD	TBD

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STEWART

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A16007.00

SCALE: NTS

N/F
DUKE ENERGY CAROLINAS LLC
PIN 9787-29-9691
DB 4380, PG 238

N/F
TOWN OF CHAPEL HILL
PIN 9787-39-7668
DB 4380, PG 239

N/F
TOWN OF CHAPEL HILL
PIN 9787-39-7668
DB 4380, PG 239

N/F
DEPARTMENT OF TRANSPORTATION
PIN 9788-30-4083
DB 927, PG 294

FRAGILE CLAY PIPE

FRAGILE CLAY PIPE

BEGIN CONSTRUCTION
–L1– STA. 10+09.35

POT Sta. 10+00.00

PC Sta. 10+16.01

PT Sta. 10+73.67

PC Sta. 11+18.19

PT Sta. 11+23.48

PC Sta. 13+38.99

PT Sta. 14+52.99

PC Sta. 15+39.16

PT Sta. 16+23.68

PC Sta. 17+82.05

PT Sta. 17+72.97

PC Sta. 17+24.69

MATCHLINE –L1– STA. 18+00 SEE SHEET 5

–L1–				
PI Sta 10+72.35	PI Sta 11+20.84	PI Sta 13+98.90	PI Sta 15+82.58	PI Sta 17+50.90
△ = 132° 08' 47.4" (LT)	△ = 12° 06' 42.4" (RT)	△ = 43° 32' 39.9" (RT)	△ = 32° 16' 54.9" (RT)	△ = 55° 19' 52.7" (LT)
D = 229° 10' 59.2"	D = 229° 10' 59.2"	D = 38° 11' 49.9"	D = 38° 11' 49.9"	D = 114° 35' 29.6"
L = 57.66'	L = 5.28'	L = 114.00'	L = 84.51'	L = 48.29'
T = 56.34'	T = 2.65'	T = 59.91'	T = 43.41'	T = 26.21'
R = 25.00'	R = 25.00'	R = 150.00'	R = 150.00'	R = 50.00'

–L1–

PI = 11+64.30
EL = 302.15'
VC = 100'

PI = 15+19.60
EL = 311.34'
VC = 100'

BEGIN GRADE
–L1– STA. 10+00.00
EL. = 294.90

PROPOSED GRADE AT CL OF GREENWAY

EXISTING GRADE AT CL OF GREENWAY

(+)4.4115%

(+)12.5862%

(+)12.5862%

(+)5.6377%

(+)5.6377%

330 320 310 300 290

10 11 12 13 14 15 16 17 18

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A16007.00

SCALE: 1"=30'

4

N/F
DEPARTMENT OF TRANSPORTATION
PIN 9788-30-6056
DB 905, PG 166

18"RCP

PT Sta. 18+42.59

PC Sta. 20+22.28
PT Sta. 20+26.37

20+00

25+00

FOWP

18"RCP

18"RCP

N 72° 20' 51"E

N 73° 31' 09"E

330 340 345 350 355 360 365 370 375

MATCHLINE –L1– STA. 18+00 SEE SHEET 4

MATCHLINE –L1– STA. 26+00 SEE SHEET 6

N/F
DEPARTMENT OF TRANSPORTATION
PIN 9788-30-4083
DB 927, PG 294

N/F
MARK TENNEY & BARBARA J NOWELL
PIN 9788-30-8089
DB 908, PG 58

N/F
MARK TENNEY & BARBARA J NOWELL
PIN 9788-40-0120
DB 4899, PG 510

N/F
BRIAN BURNHAM
PIN 9788-40-1099
DB 5876, PG 191

N/F
STEVEN GERINGER
PIN 9788-40-4246
DB 5487, PG 1

–L1–	
PI Sta. 18+16.65	PI Sta. 20+24.33
△ = 69° 22' 38.2" (RT.)	△ = 1° 10' 18.3" (RT.)
D = 114° 35' 29.6"	D = 28° 38' 52.4"
L = 60.54'	L = 4.09'
T = 34.61'	T = 2.05'
R = 50.00'	R = 200.00'

–L1–

EXISTING GRADE AT CL OF GREENWAY

PROPOSED GRADE AT CL OF GREENWAY

(+)5.6377%

(+)5.6377%

370
360
350
340
330
320

18 19 20 21 22 23 24 25 26

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5

MATCHLINE –L1– STA. 26+00 SEE SHEET 5

MATCHLINE –L1– STA. 34+00 SEE SHEET 7

N/F
DEPARTMENT OF TRANSPORTATION
PIN 9788-30-6056
DB 905, PG 166

FORDHAM BLVD

PC Sta. 28+74.42
PT Sta. 28+81.53

PC Sta. 32+86.58
PT Sta. 32+88.33

30+00

15"RCP

15"RCP

FOWP

WV

INV=399.23'

N 75° 33' 23.6" E

380

383.4

383.5

385

390

395

400

407.5

N/F
STEVEN GERINGER
PIN 9788-40-4246
DB 5487, PG 1

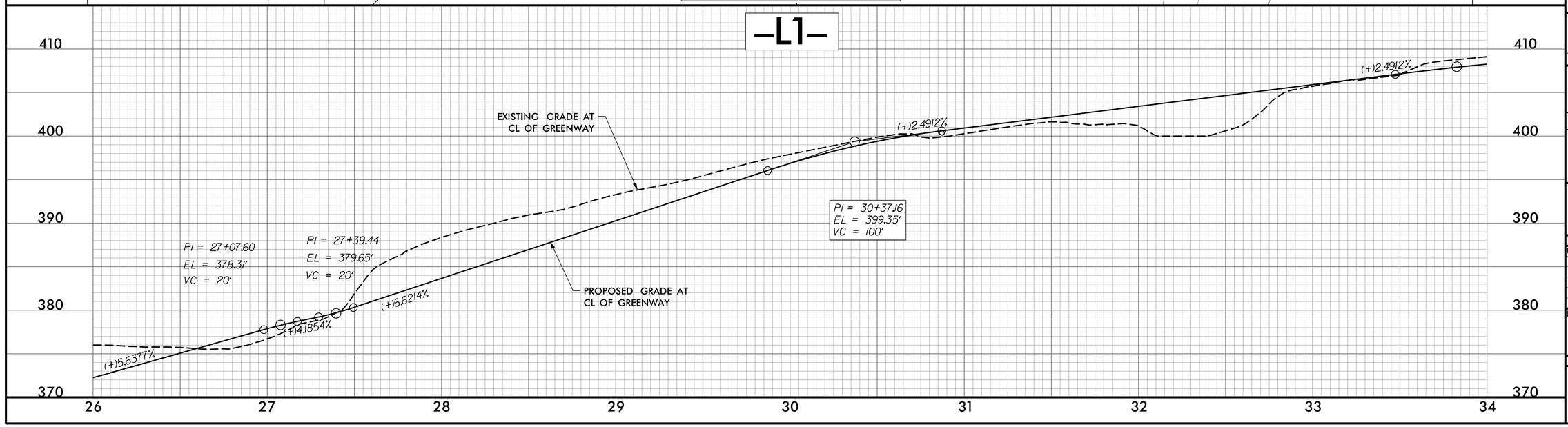
N/F
JOHN A MCPHAUL III & NINA F MCPHAUL
PIN 9788-40-6379
DB 3588, PG 494

N/F
SARAH BROOKS BRANDES MANDRY
PIN 9788-40-8346
DB 4639, PG 360
PB 4, PG 200

N/F
BEBY & SHAKUNTHALA JAYARAM
PIN 9788-50-0491
DB 3353, PG 590
PB 4, PG 200

–L1–

PI Sta 28+77.97	PI Sta 32+87.46
△ = 2° 02' 13.6" (RT)	△ = 0° 30' 14.6" (LT)
D = 28° 38' 52.4"	D = 28° 38' 52.4"
L = 7.11'	L = 1.76'
T = 3.56'	T = 0.88'
R = 200.00'	R = 200.00'



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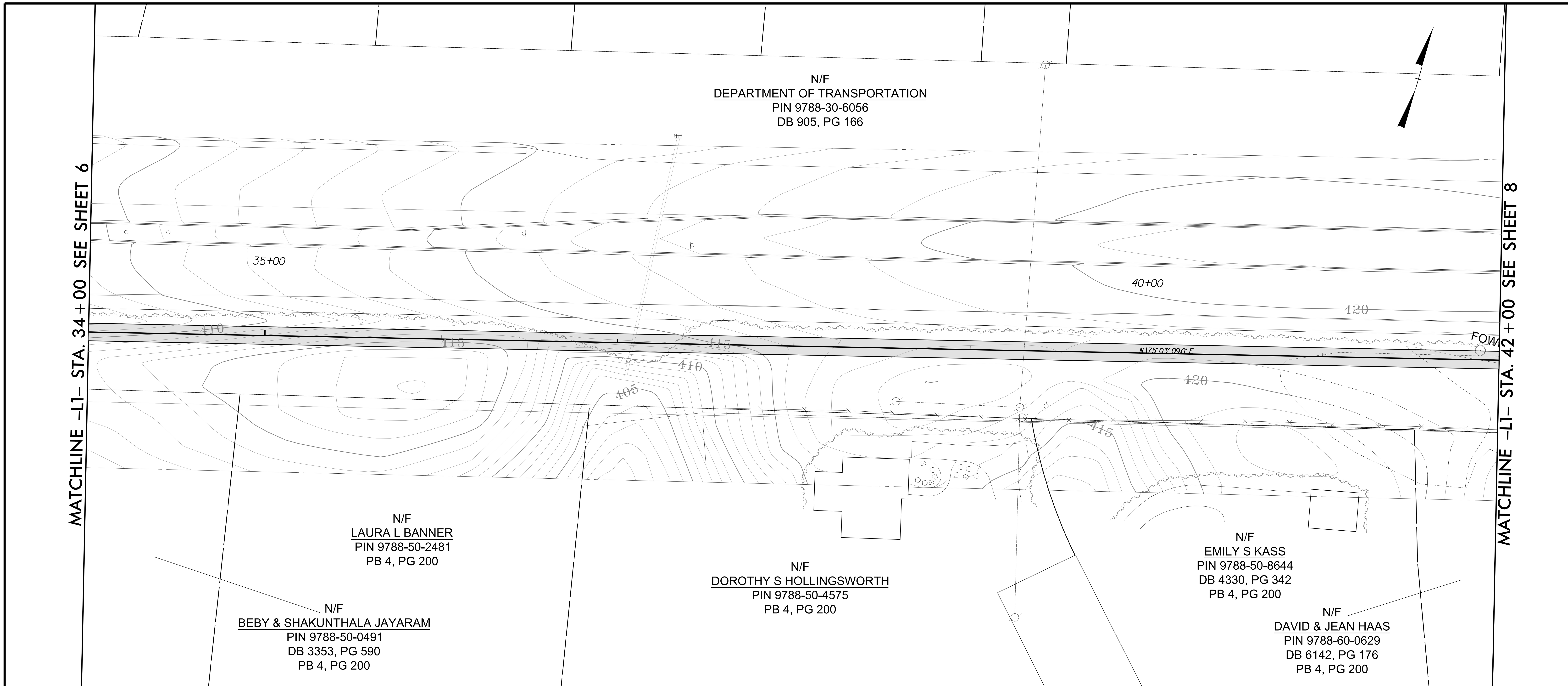
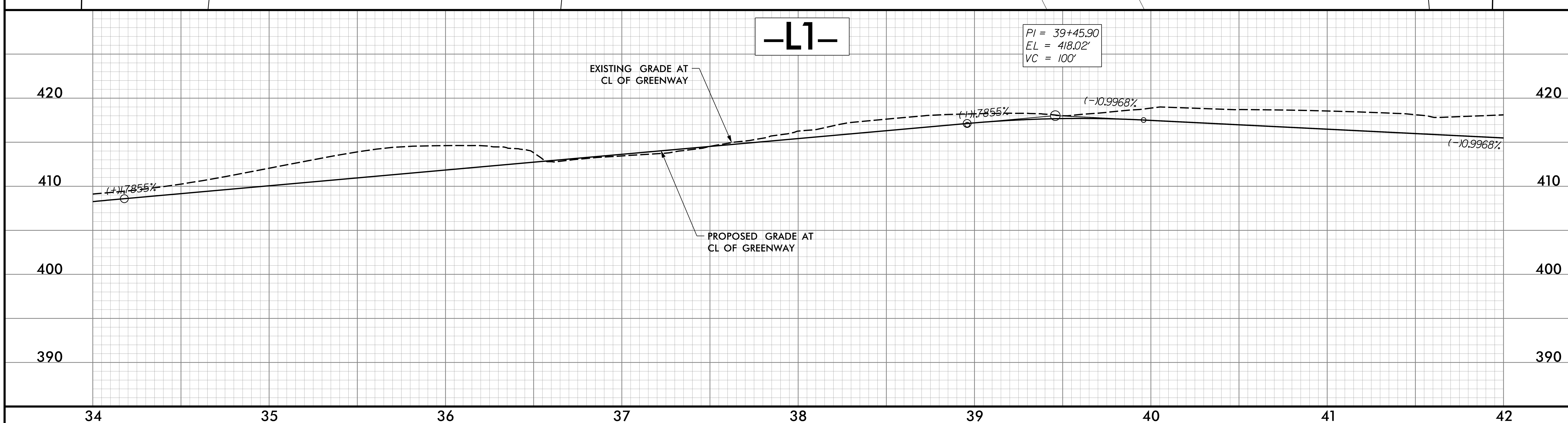
6



N/F
DEPARTMENT OF TRANSPORTATION
PIN 9788-30-6056
DB 905, PG 166
MATCHLINE -L1- STA. 34+00 SEE SHEET 6
MATCHLINE -L1- STA. 42+00 SEE SHEET 8
35+00
40+00
410
415
405
420
FOW
N/F
LAURA L BANNER
PIN 9788-50-2481
PB 4, PG 200
N/F
DOROTHY S HOLLINGSWORTH
PIN 9788-50-4575
PB 4, PG 200
N/F
EMILY S KASS
PIN 9788-50-8644
DB 4330, PG 342
PB 4, PG 200
N/F
BEBY & SHAKUNTHALA JAYARAM
PIN 9788-50-0491
DB 3353, PG 590
PB 4, PG 200
N/F
DAVID & JEAN HAAS
PIN 9788-60-0629
DB 6142, PG 176
PB 4, PG 200



TOWN OF CHAPEL HILL

MORGAN CREEK GREENWAY PHASE 1

GREENWAY ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

STEWART

HYDRAULICS ENGINEER

PRELIMINARY PLANS
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ECOLOGICAL ENGINEERING

DATE: DECEMBER 14, 2016

REVISIONS:

NO.	DATE

PROJECT NO.: A16007.00

SCALE: 1"=30'

MATCHLINE –L1– STA. 42+00 SEE SHEET 7

N/F
DEPARTMENT OF TRANSPORTATION
PIN 9788-30-6056
DB 905, PG 166

45+00

POT Sta. 47+34.57

END CONSTRUCTION
–L1– STA. 47+34.57

FOWP

415
410
405
400
395
390
385

N/F
DAVID & JEAN HAAS
PIN 9788-60-0629
DB 6142, PG 176
PB 4, PG 200

N/F
SHELLY DAY TRUSTEE
PIN 9788-60-0686

N/F
CRISTIAN BRUBAKER NILS
PIN 9788-60-2771
DB 1276, PG 65

N/F
RONALD D HERRING
PIN 9788-60-5850

–L1–

END GRADE
–L1– STA. 47+34.57
EL. = 413.38

413.38

PI = 44+86.33
EL = 412.63'
VC = 100'

PI = 46+15.28
EL = 407.04'
VC = 100'

(–)0.9968%
(–)0.9968%
(–)4.3377%
(–)4.3377%
(+)5.3166%

EXISTING GRADE AT
CL OF GREENWAY

PROPOSED GRADE AT
CL OF GREENWAY

420
410
400
390

42 43 44 45 46 47 48 49

TOWN OF CHAPEL HILL

MORGAN CREEK
GREENWAY PHASE 1

GREENWAY ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

Firm License No. C-1051
421 Fayetteville St.
Suite 400
Raleigh, NC 27601
T 919.380.8750
www.stewartinc.com
STEWART

HYDRAULICS ENGINEER

PRELIMINARY PLANS
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NC FIRM LICENSE No: P-1148
1151 SE Cary Parkway
Suite 101
Cary, NC 27518
(919) 557-0929
ECOLOGICAL ENGINEERING

DATE: DECEMBER 14, 2016

REVISIONS:

NO.	DATE

PROJECT NO.:
A16007.00

SCALE: 1"=30'

8