| STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| MASS. | | 01 | 12 |
| PROJECT FILE NO. 605189 | | | |

PRELIMINARY RIGHT OF WAY PLANS
TITLE & INDEX SHEET

# THE COMMONWEALTH OF MASSACHUSETTS
# HIGHWAY DEPARTMENT

## PRELIMINARY RIGHT OF WAY PLANS
## BRUCE FREEMAN RAIL TRAIL

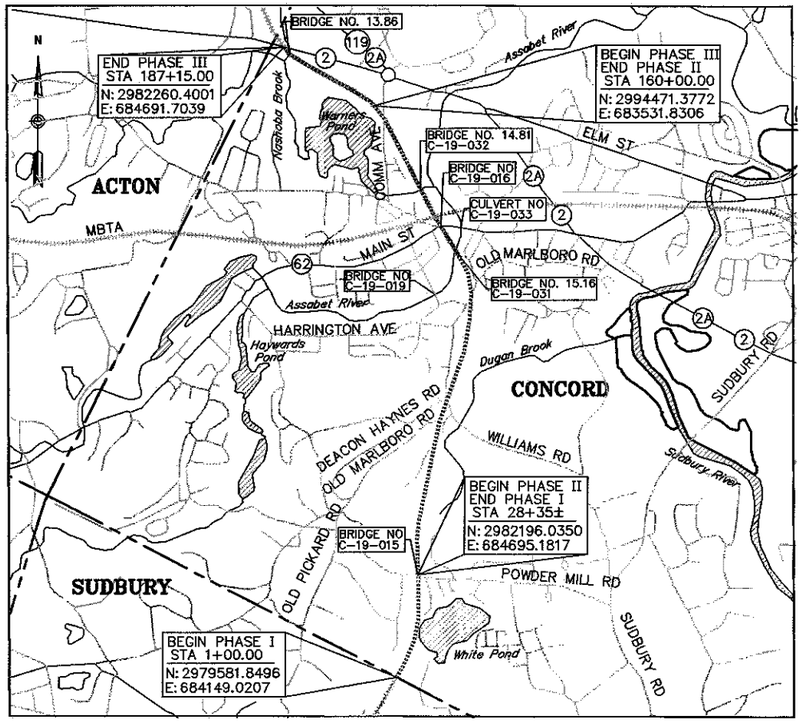
IN THE TOWN OF

## CONCORD
## MIDDLESEX COUNTY

FEDERAL AID PROJECT NO:

**INDEX**


| SHEET NO. | DESCRIPTION |
|---|---|
| 1 | TITLE & INDEX SHEET |
| 2–3 | TYPICAL SECTIONS & PAVEMENT NOTES |
| 4–12 | PRELIMINARY RIGHT OF WAY PLANS |


**LENGTH OF PROJECT: 18,615.00 FEET= 3.526 MILES**

**25% SUBMISSION**

**MARCH 25, 2009**

**REFERENCE MANUALS**

THE 1988 MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES (ENGLISH EDITION); THE SUPPLEMENTAL SPECIFICATIONS (ENGLISH EDITION) DATED JUNE 6, 2006; THE 1977 MDPW CONSTRUCTION STANDARDS (ENGLISH EDITION); THE METRIC/ENGLISH SUPPLEMENTAL DRAWINGS DATED APRIL 2003; THE 2003 "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD)" WITH LATEST REVISIONS; THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS; THE 1988 "STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING"; AND THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z–60.1–2004) AND ALL AMENDMENTS WILL GOVERN.

**CONVENTIONAL SIGNS**

| | |
|---|---|
| COUNTY, CITY OR TOWN BOUNDARY | |
| COUNTY, CITY OR TOWN SIDE LINE | |
| FENCE LINE | |
| BASE LINE OR SURVEY LINE | 75 N00°–31'–37"W 132.571' |
| RIGHT OF WAY LINE | |
| CULVERT | |
| UTILITY POLE | ϕ |

| NO. | REVISION | DATE |
|---|---|---|
| | | |
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PLAN PREPARED BY:
VANASSE HANGEN BRUSTLIN, INC.

| STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
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| MASS. | | 02 | 12 |
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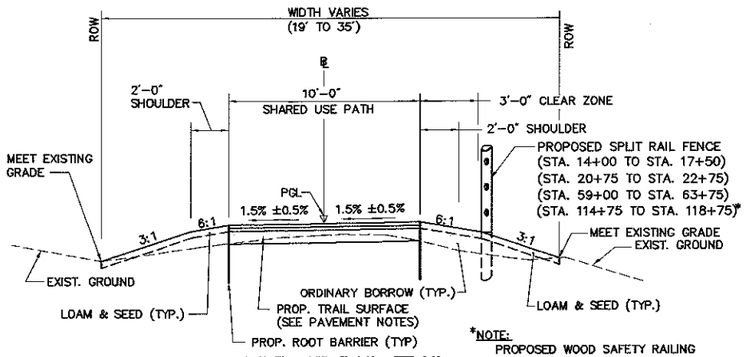
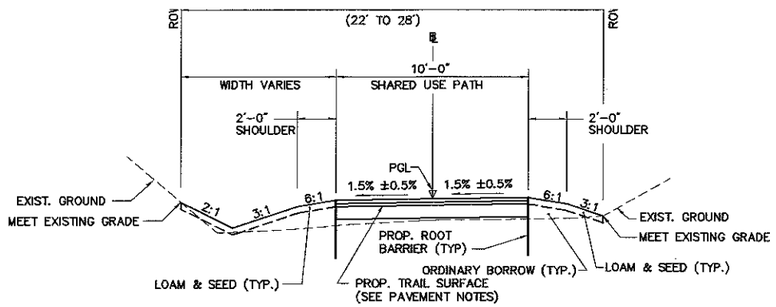
# PRELIMINARY RIGHT OF WAY PLANS
# TYPICAL SECTIONS



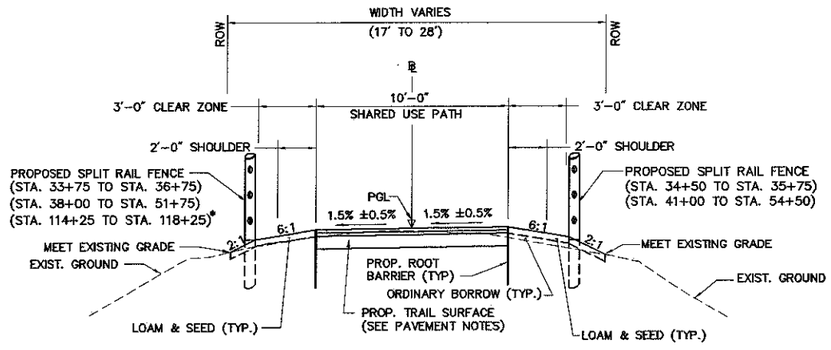

## MULTIUSE RAIL TRAIL

| | | | |
|---|---|---|---|
| STA. | 1+00 | TO STA. | 3+00 |
| STA. | 6+00 | TO STA. | 33+76 |
| STA. | 36+75 | TO STA. | 38+25 |
| STA. | 54+50 | TO STA. | 55+50 |
| STA. | 58+50 | TO STA. | 62+00 |
| STA. | 67+25 | TO STA. | 70+50 |
| STA. | 72+25 | TO STA. | 74+75 |
| STA. | 76+75 | TO STA. | 92+25 |
| STA. | 96+25 | TO STA. | 99+25 |
| STA. | 100+25 | TO STA. | 101+75 |
| STA. | 104+75 | TO STA. | 105+25 |
| STA. | 108+25 | TO STA. | 109+25 |
| STA. | 114+25 | TO STA. | 118+75* |
| STA. | 136+75 | TO STA. | 147+25 |
| STA. | 167+25 | TO STA. | 167+75 |
| STA. | 175+75 | TO STA. | 176+75 |
| STA. | 177+75 | TO STA. | 178+75 |
| STA. | 181+00 | TO STA. | 181+50 |




## MULTIUSE RAIL TRAIL

| | | | |
|---|---|---|---|
| STA. | 62+25 | TO STA. | 67+25 |
| STA. | 94+25 | TO STA. | 96+25 |
| STA. | 118+75 | TO STA. | 120+75 |
| STA. | 167+75 | TO STA. | 172+25 |
| STA. | 183+25 | TO STA. | 187+00 |




## MULTIUSE RAIL TRAIL

| | | | |
|---|---|---|---|
| STA. | 33+75 | TO STA. | 36+75 |
| STA. | 38+25 | TO STA. | 54+50 |

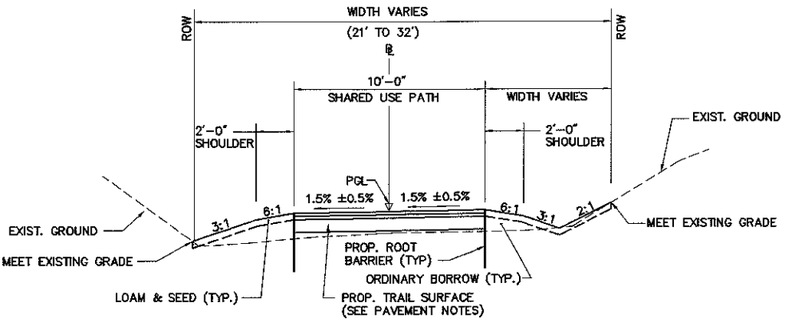
## PAVEMENT NOTES

PROPOSED HMA TRAIL/DRIVE SURFACE

| | |
|---|---|
| SURFACE: | 4" HOT MIX ASPHALT (2" TOP COURSE MATERIAL OVER 2" BINDER COURSE MATERIAL) |
| SUBBASE: | 8" GRAVEL BORROW (TYPE B) |

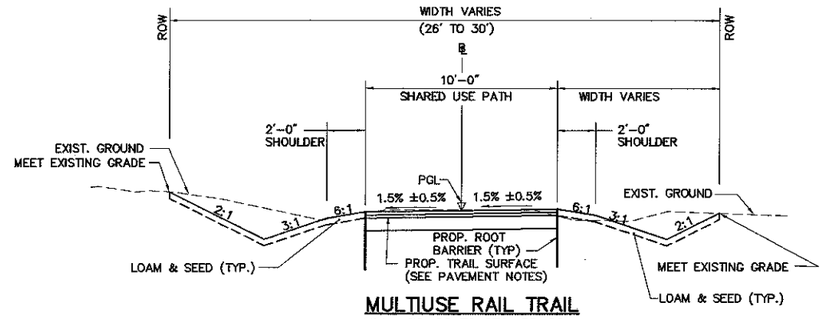
PROPOSED CEMENT CONCRETE DRIVEWAY/WHEELCHAIR RAMP

| | |
|---|---|
| SURFACE: | 6" CEMENT CONCRETE AIR ENTRAINED 4000PSI, ¾", 610 |
| FOUNDATION: | 8" GRAVEL BORROW, TYPE b |




## MULTIUSE RAIL TRAIL

| | | | |
|---|---|---|---|
| STA. | 3+00 | TO STA. | 6+00 |
| STA. | 71+25 | TO STA. | 72+25 |
| STA. | 76+25 | TO STA. | 76+75 |
| STA. | 99+25 | TO STA. | 100+25 |
| STA. | 109+25 | TO STA. | 110+25 |
| STA. | 134+75 | TO STA. | 136+75 |
| STA. | 147+25 | TO STA. | 147+75 |
| STA. | 156+75 | TO STA. | 164+75 |
| STA. | 176+75 | TO STA. | 177+75 |
| STA. | 178+75 | TO STA. | 179+25 |




## MULTIUSE RAIL TRAIL

| | | | |
|---|---|---|---|
| STA. | 56+00 | TO STA. | 58+00 |
| STA. | 70+50 | TO STA. | 71+25 |
| STA. | 74+75 | TO STA. | 76+25 |
| STA. | 92+25 | TO STA. | 94+25 |
| STA. | 101+75 | TO STA. | 104+75 |
| STA. | 105+25 | TO STA. | 108+25 |
| STA. | 110+25 | TO STA. | 114+25 |
| STA. | 120+75 | TO STA. | 134+75 |
| STA. | 147+75 | TO STA. | 156+75 |
| STA. | 164+75 | TO STA. | 167+25 |
| STA. | 172+25 | TO STA. | 175+75 |
| STA. | 179+25 | TO STA. | 183+25 |

| STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
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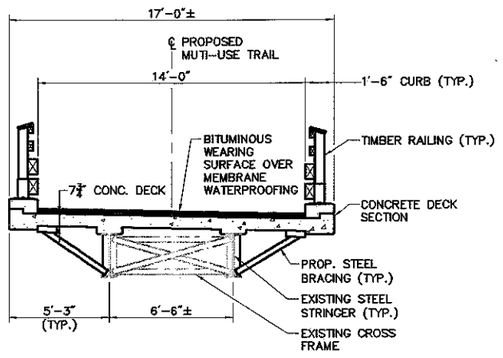
# PRELIMINARY RIGHT OF WAY PLANS
## TYPICAL SECTIONS

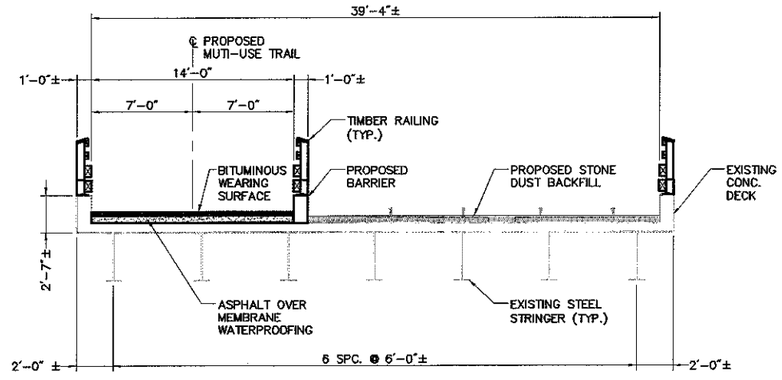



BRIDGE NO. 13.86 OVER NASHOBA BROOK

TYPICAL SECTION

SCALE: 1/4"=1'-0"

STA 185+53± TO STA 185+96±

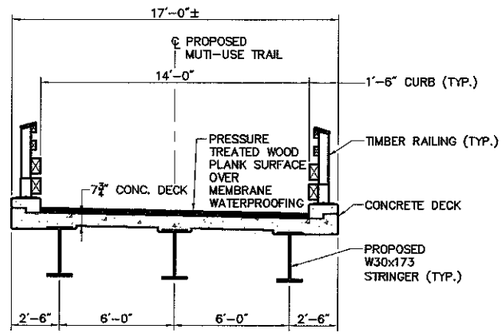



BRIDGE NO. 14.81 OVER NASHOBA BROOK

TYPICAL SECTION

SCALE: 3/16"=1'-0"

STA 135+20± TO STA 135+88±

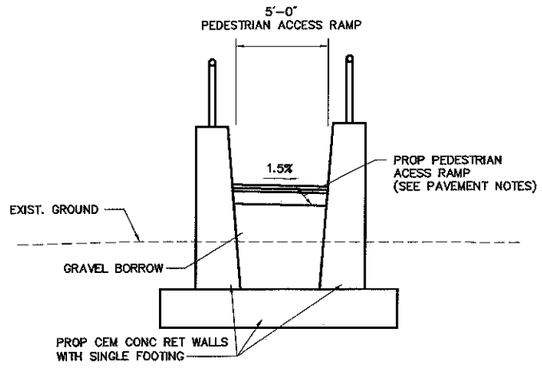



BRIDGE NO. 15.16 OVER ASSABET RIVER

TYPICAL SECTION

SCALE: 1/4"=1'-0"

STA 116+28± TO STA 117+12±




PROPOSED PEDESTRIAN ACCESS RAMP WITH RAILINGS

SCALE: 1"=4'

| STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
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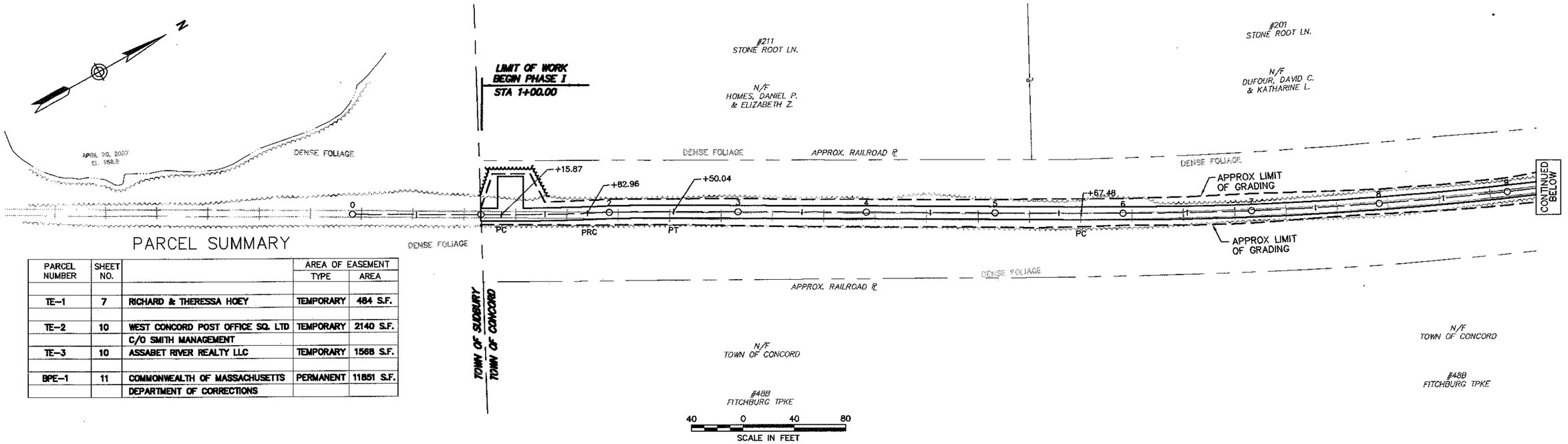
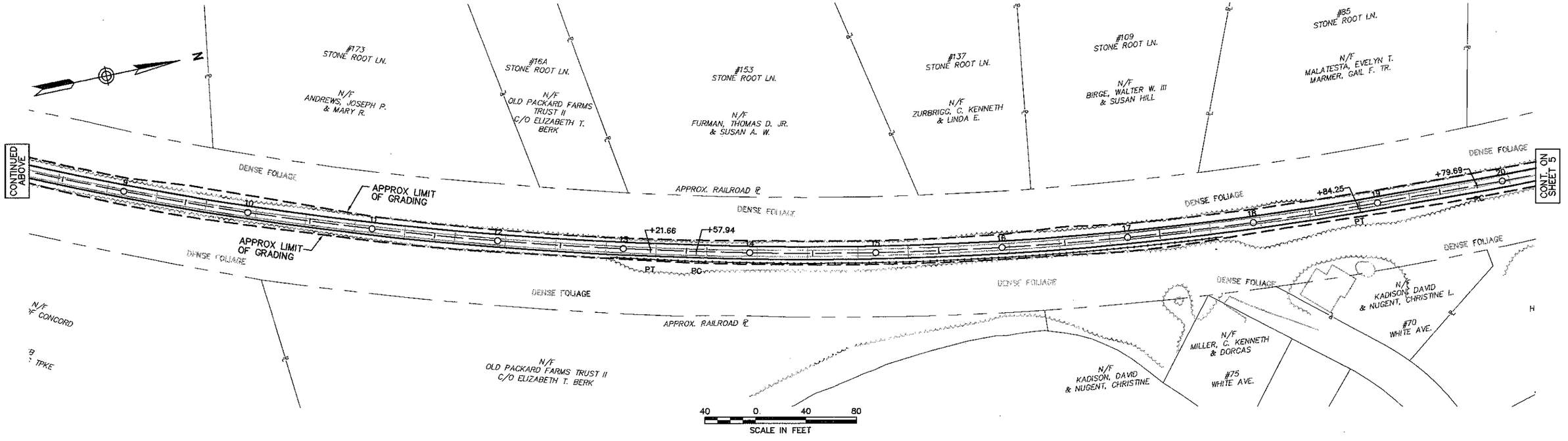
# PRELIMINARY RIGHT OF WAY PLANS




## PARCEL SUMMARY

| PARCEL NUMBER | SHEET NO. | | AREA OF EASEMENT TYPE | AREA |
|---|---|---|---|---|
| TE-1 | 7 | RICHARD & THERESSA HOEY | TEMPORARY | 484 S.F. |
| TE-2 | 10 | WEST CONCORD POST OFFICE SQ. LTD C/O SMITH MANAGEMENT | TEMPORARY | 2140 S.F. |
| TE-3 | 10 | ASSABET RIVER REALTY LLC | TEMPORARY | 1568 S.F. |
| BPE-1 | 11 | COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF CORRECTIONS | PERMANENT | 11851 S.F. |



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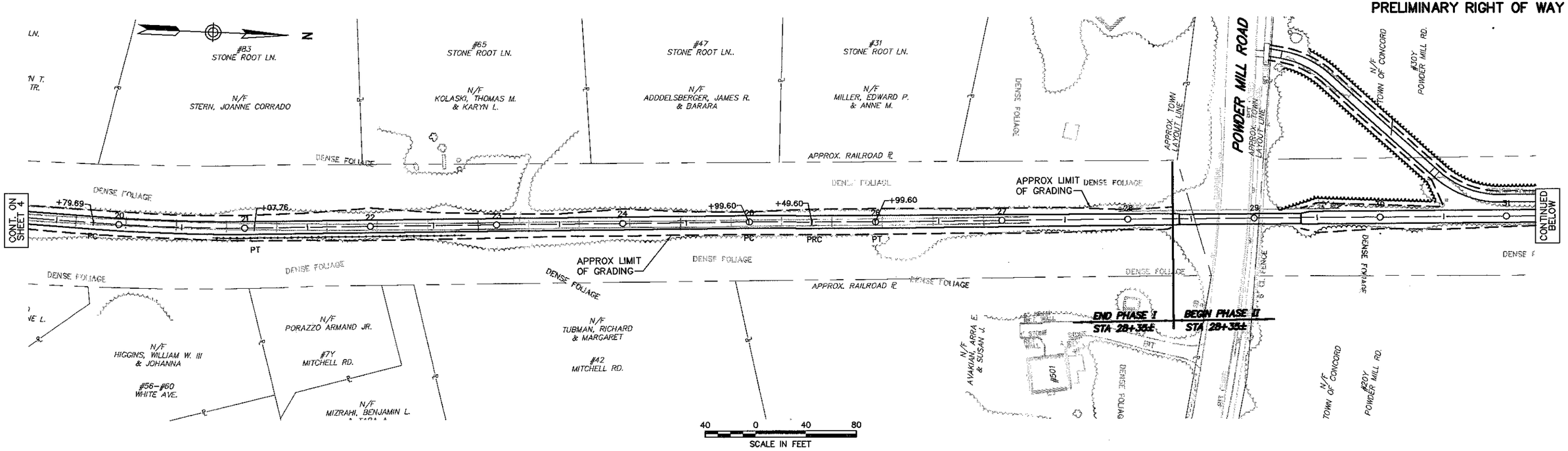


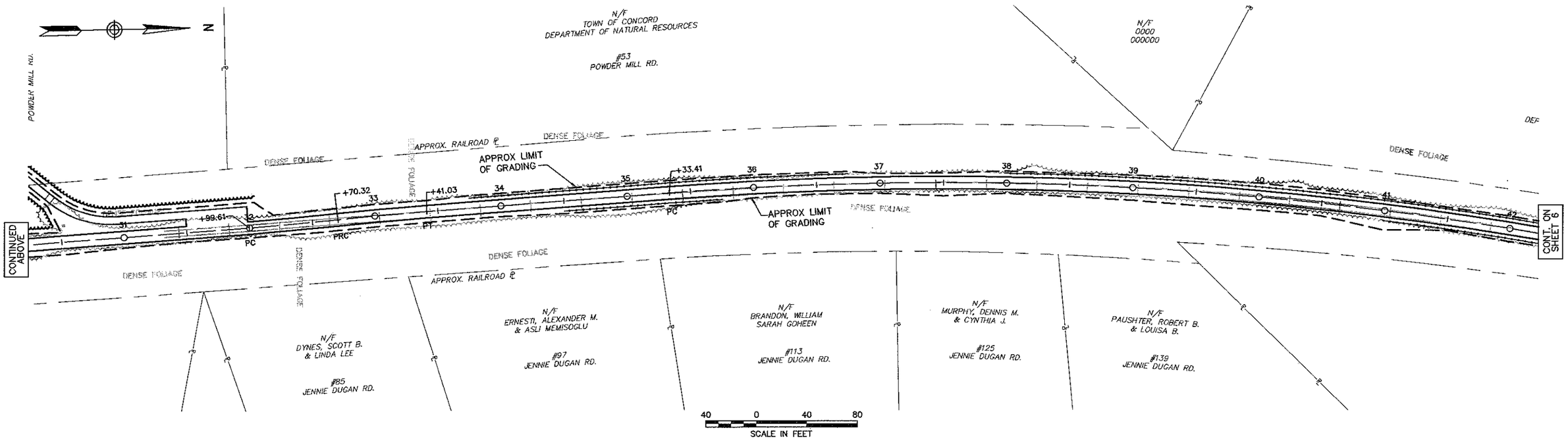

| STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
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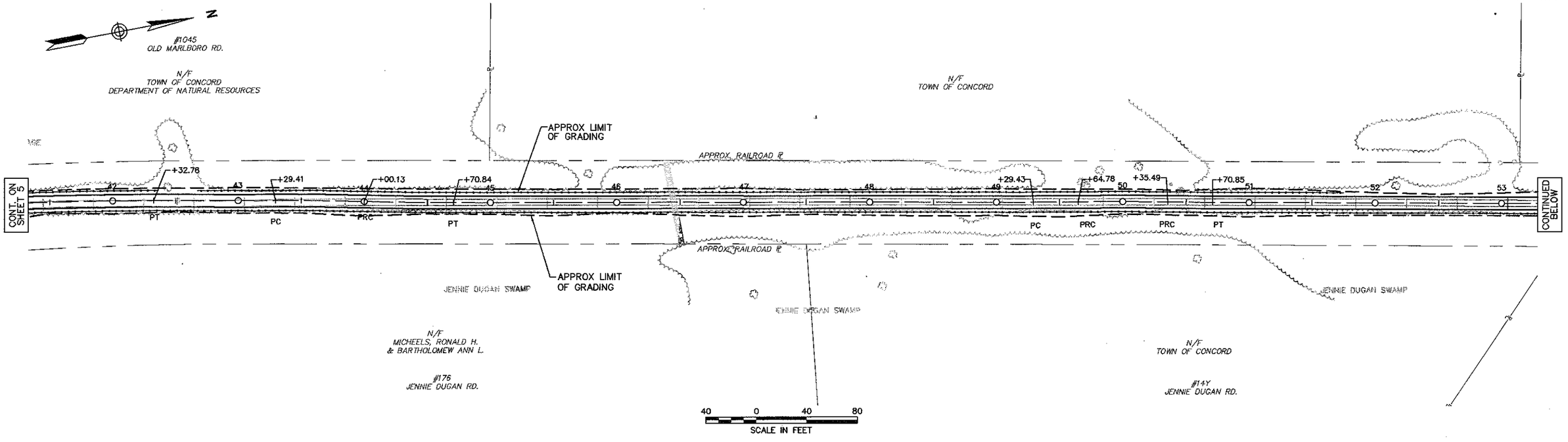
# PRELIMINARY RIGHT OF WAY PLANS



| STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
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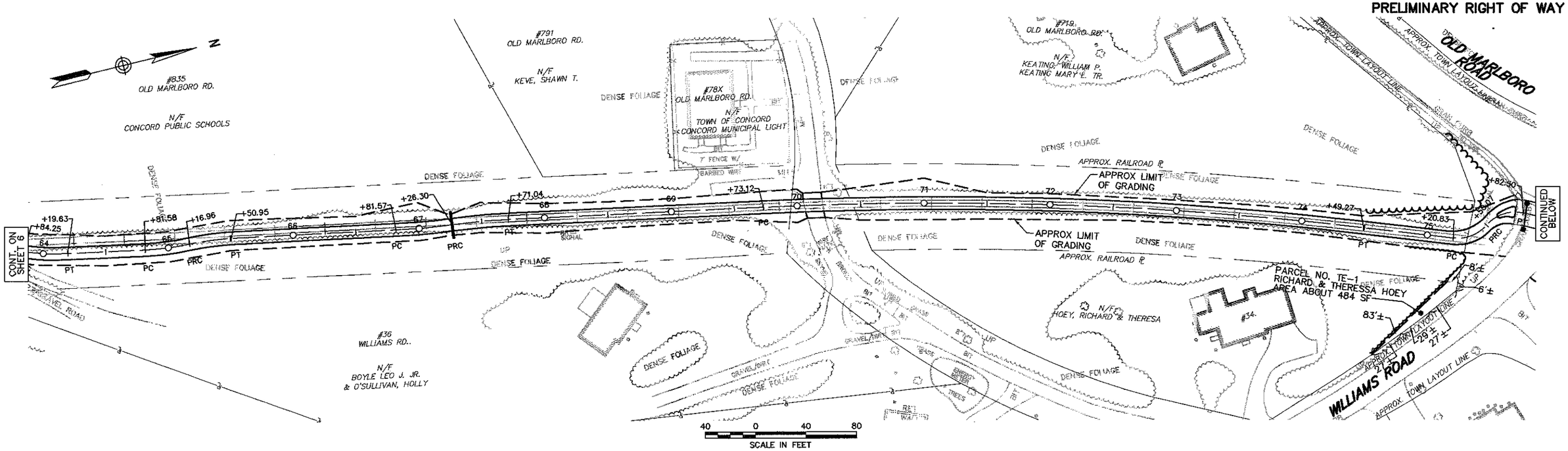
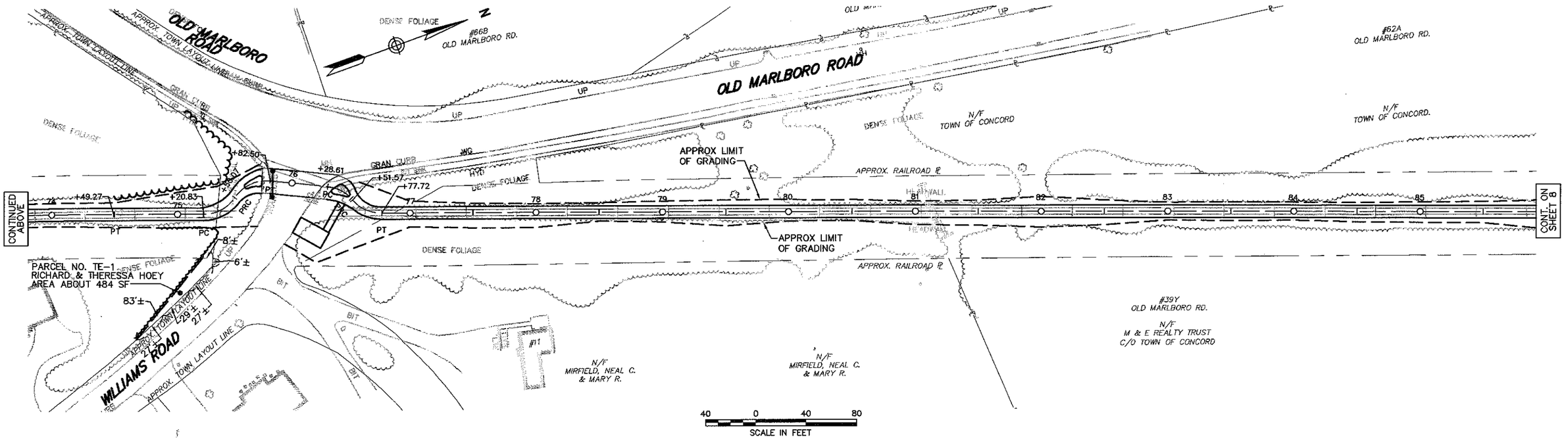
# PRELIMINARY RIGHT OF WAY PLANS



| STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
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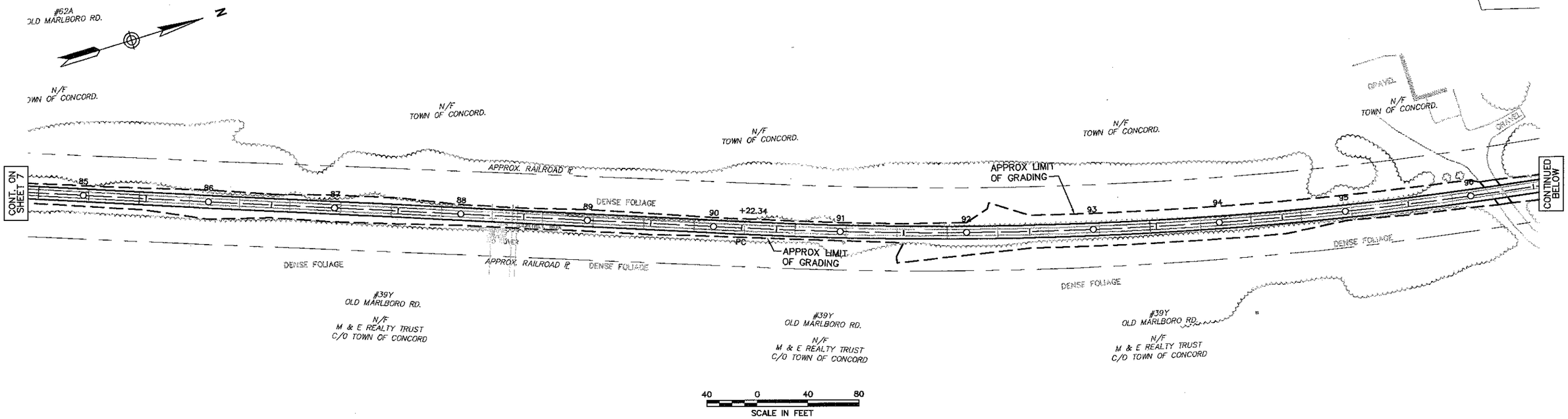


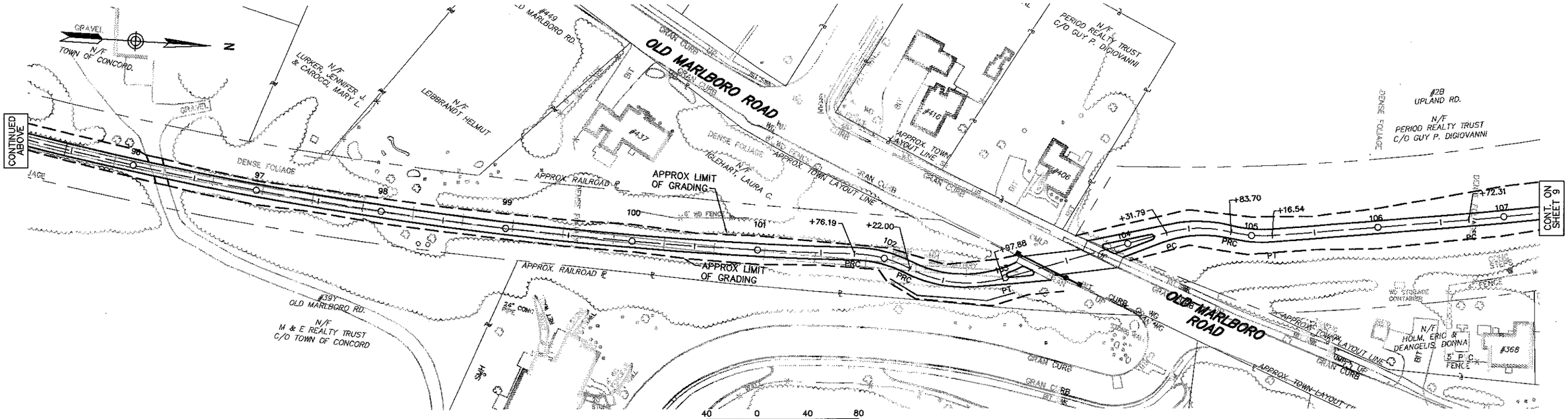

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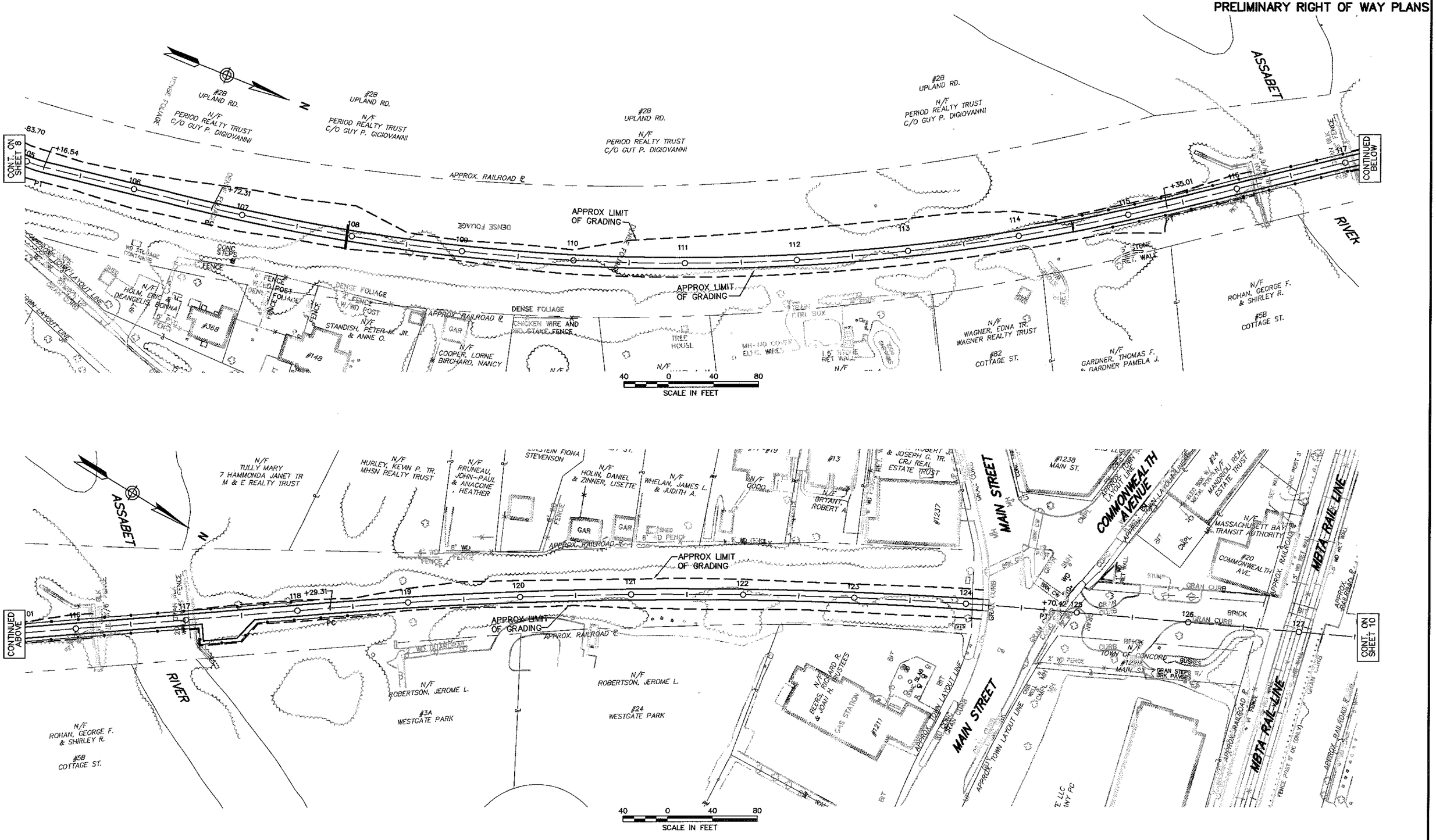

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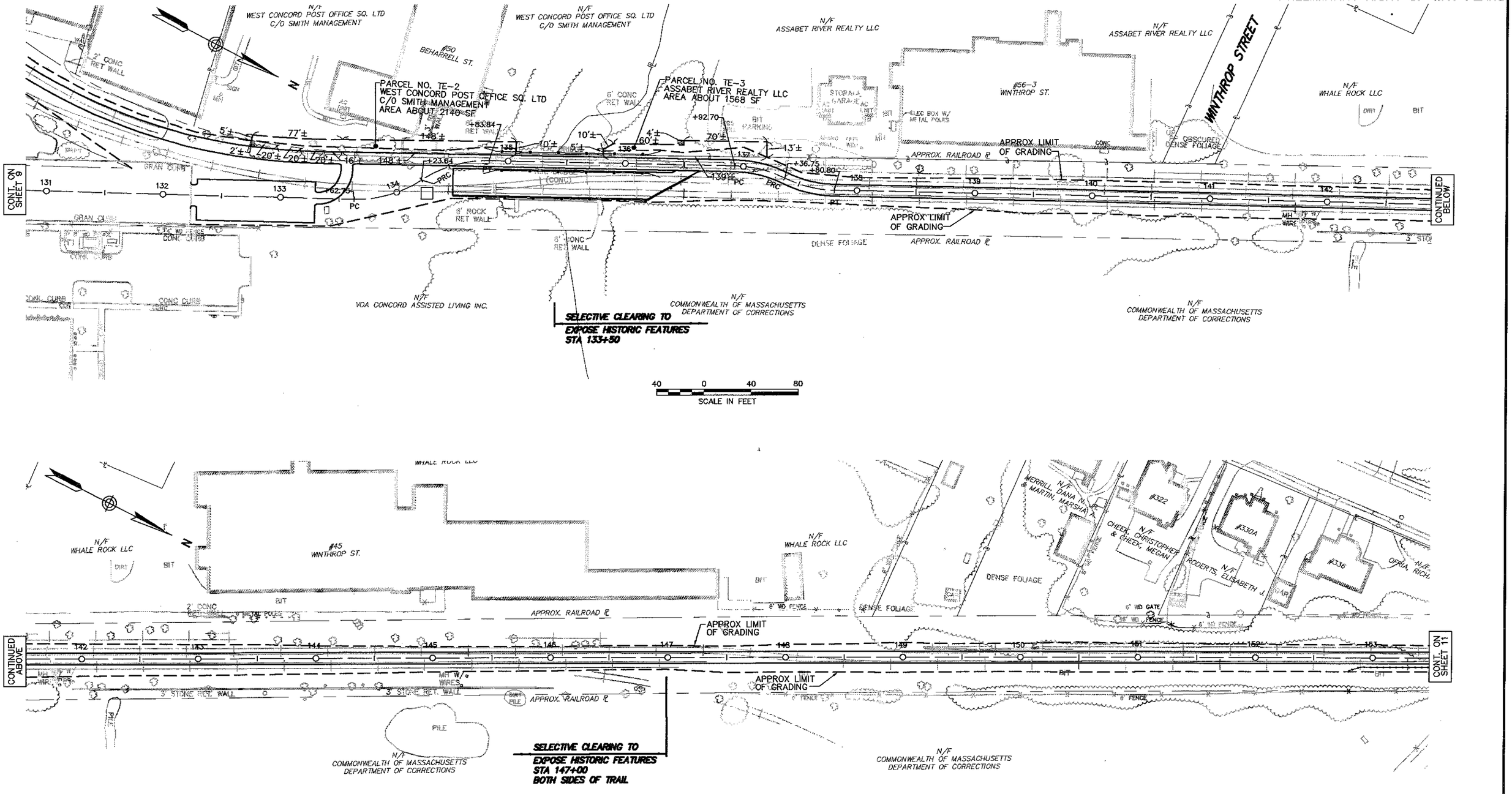

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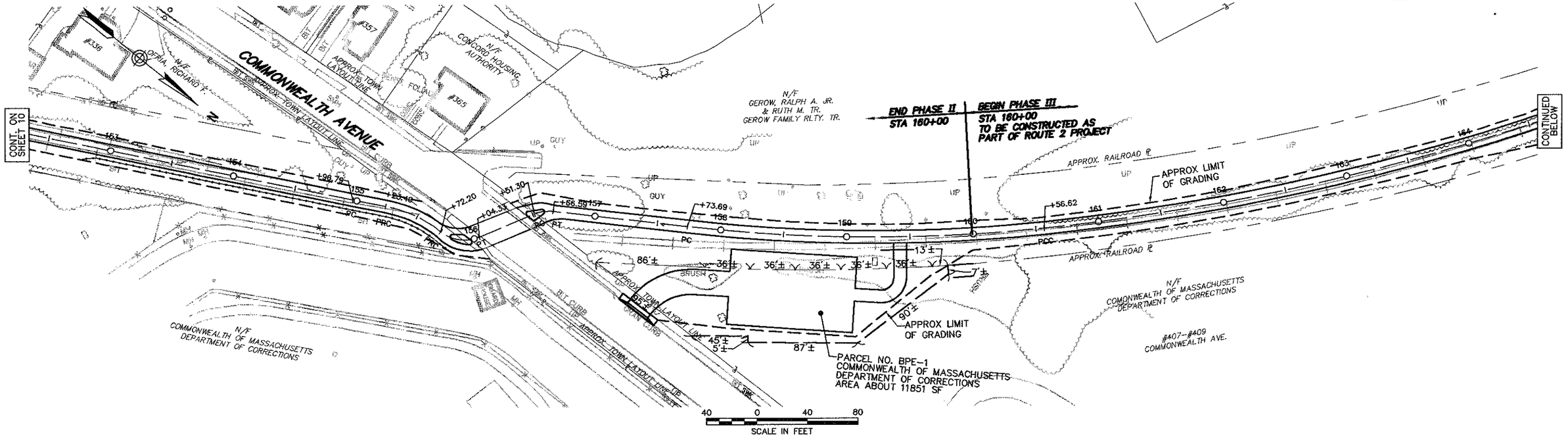


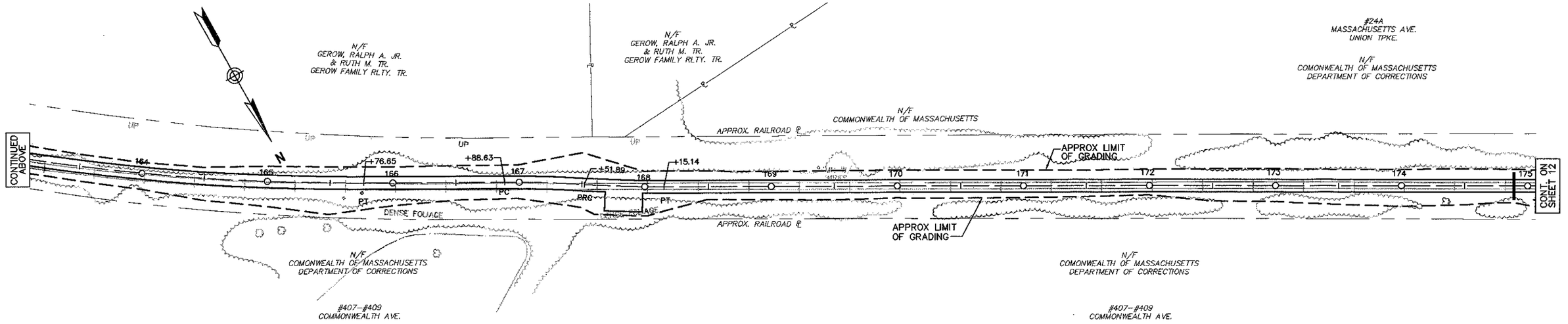

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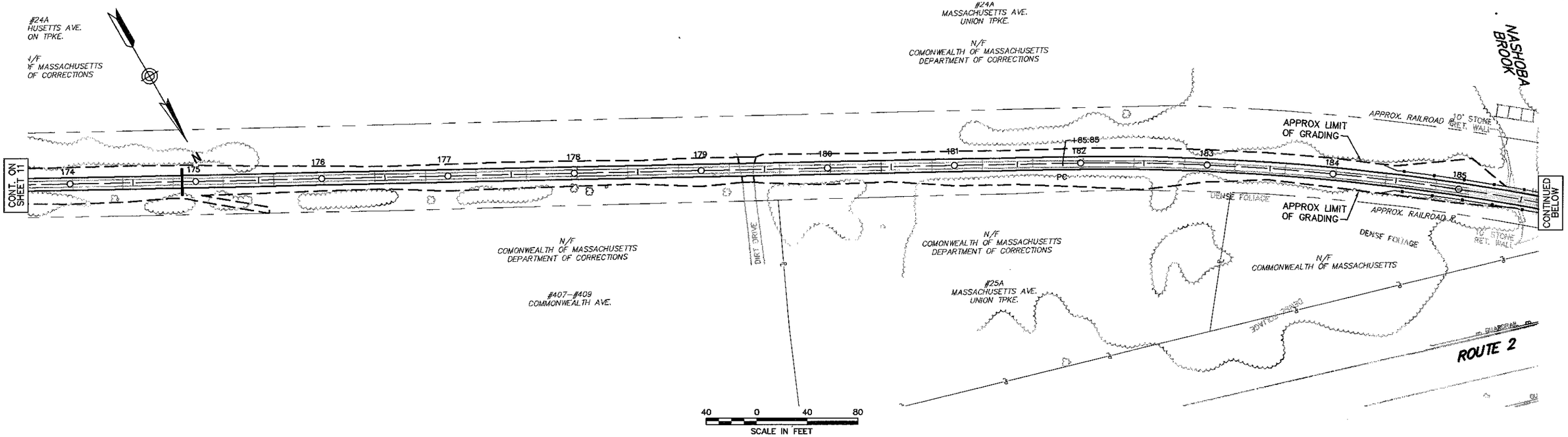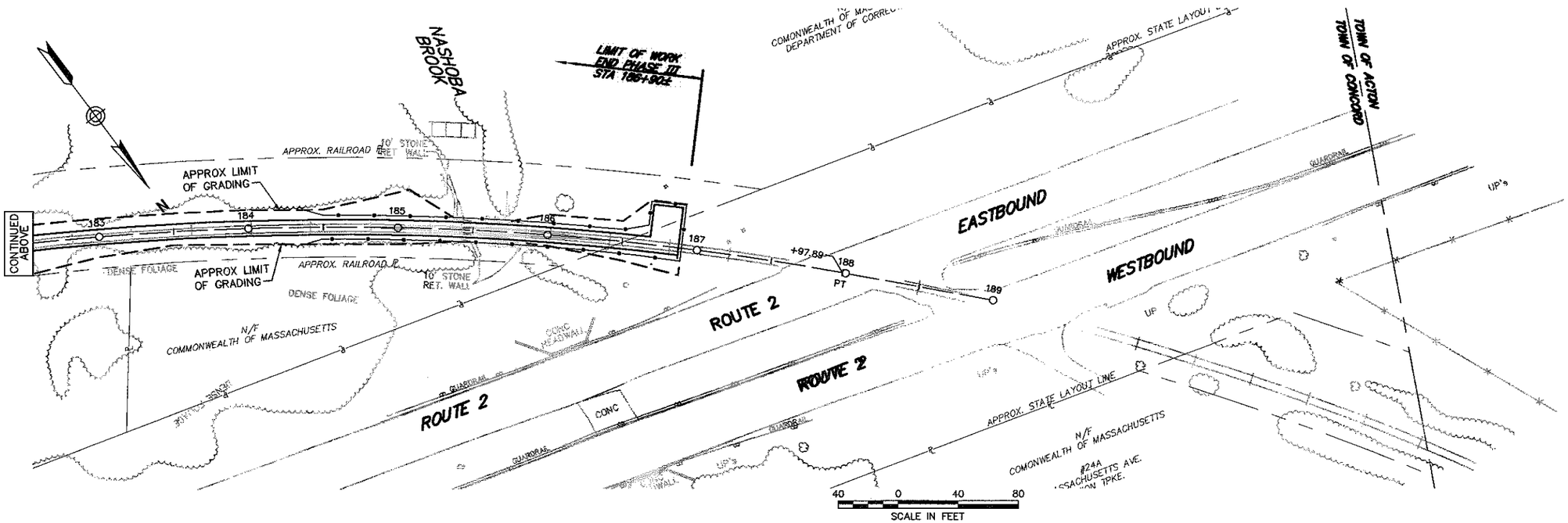
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