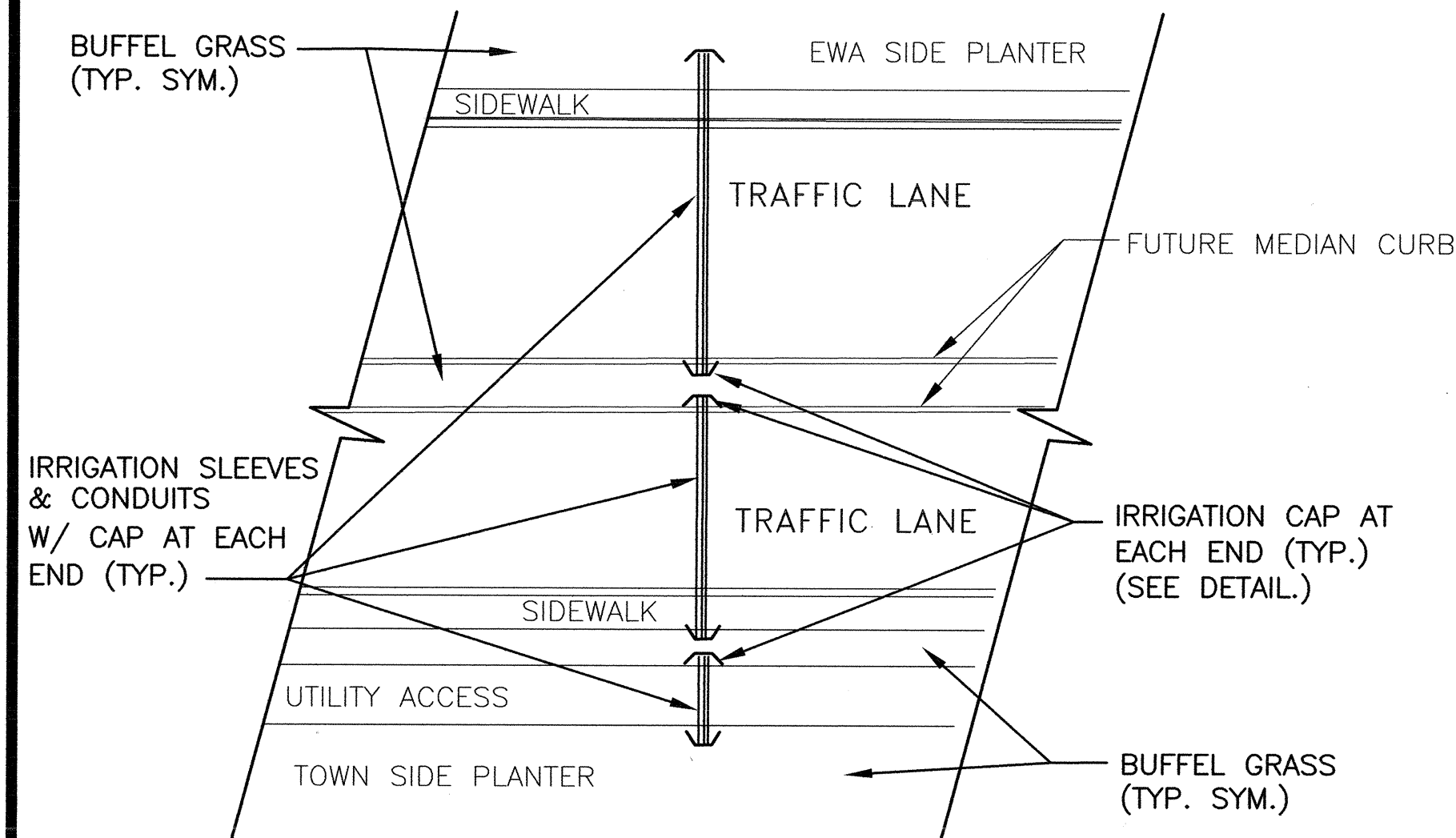
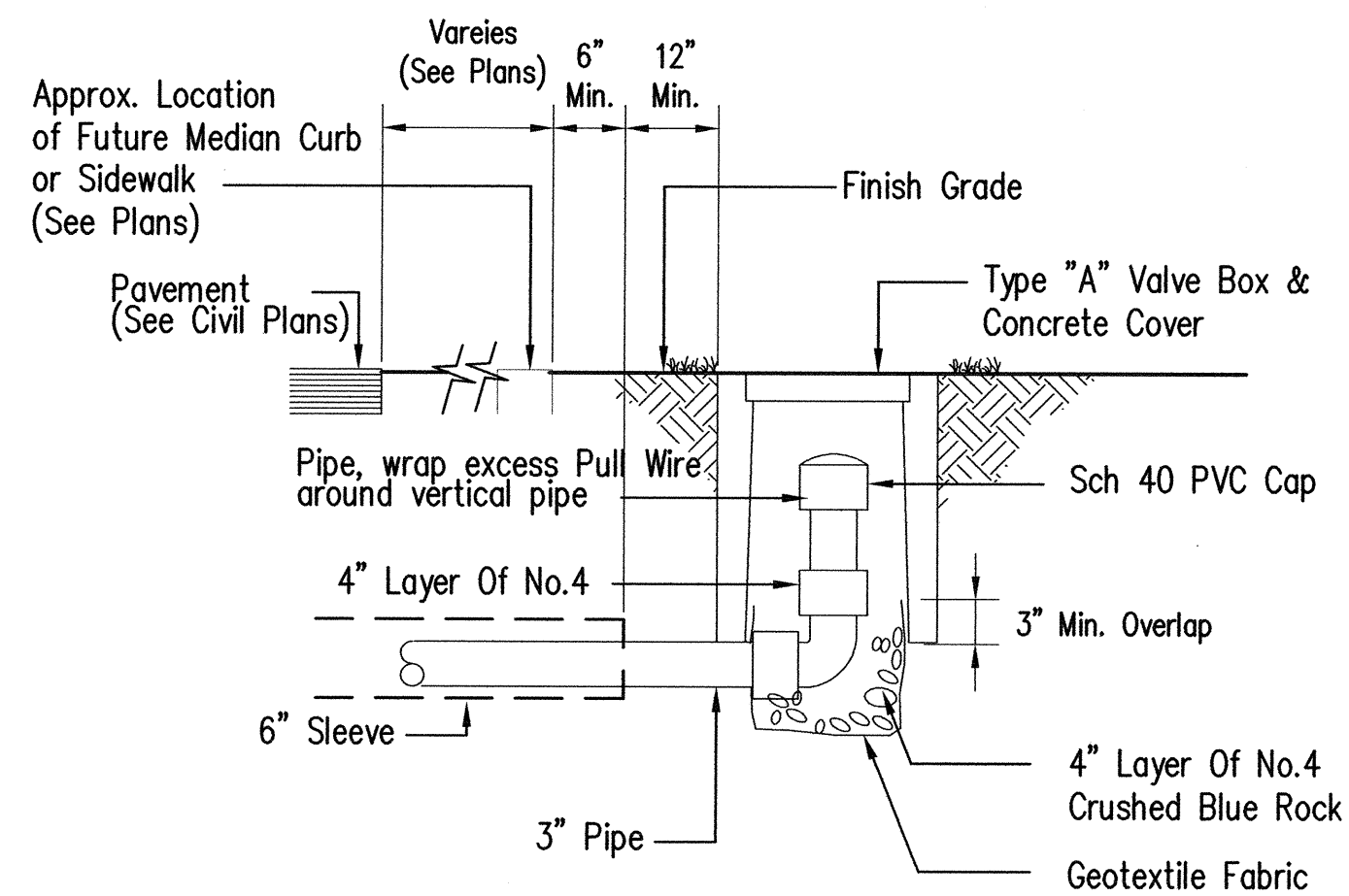


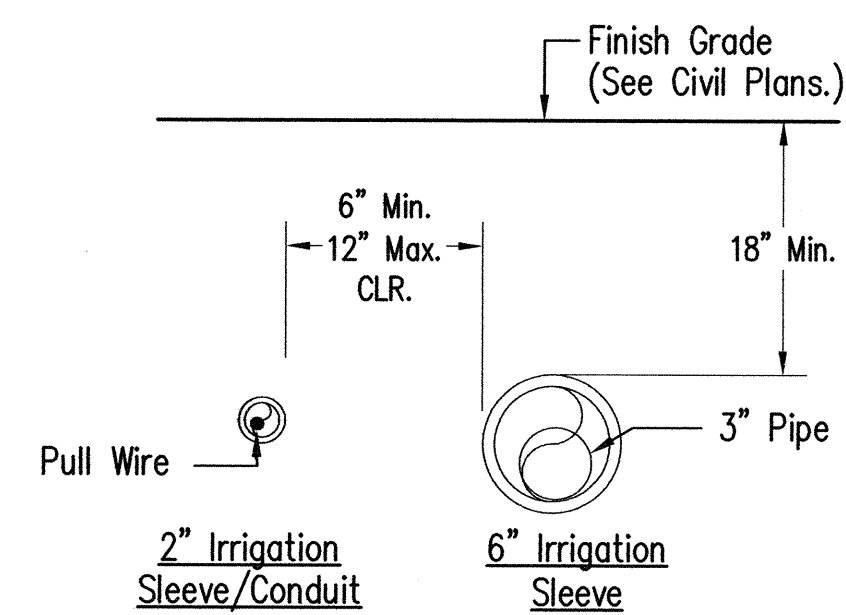
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-8930(2)        | 2007        | 320       | 331          |



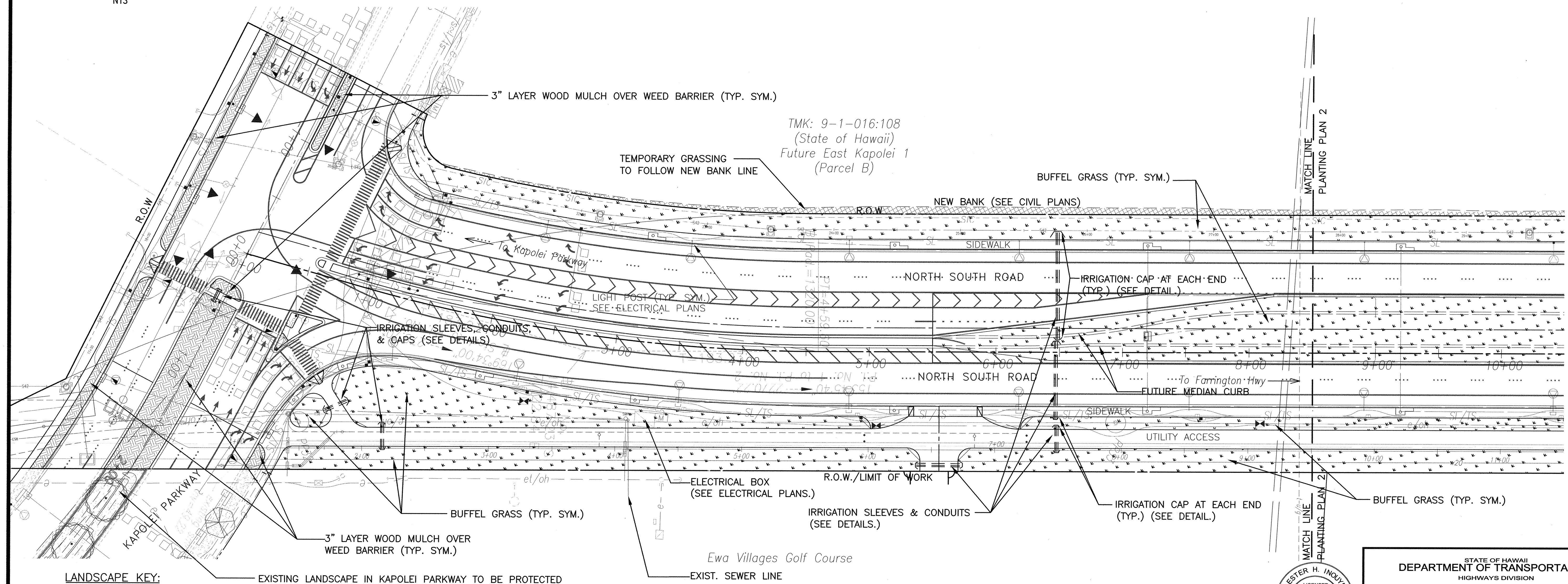
TYPICAL SLEEVE & CONDUIT LAYOUT  
NTS



TYPICAL MARKER DETAIL  
LOCATING CAPPED PIPE  
NTS



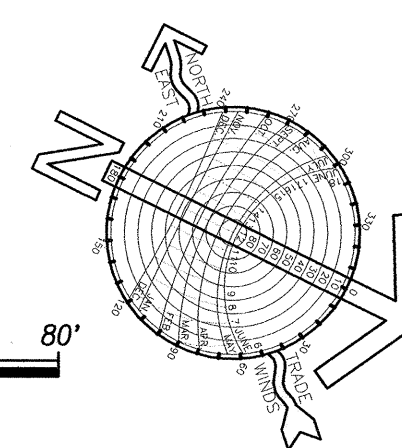
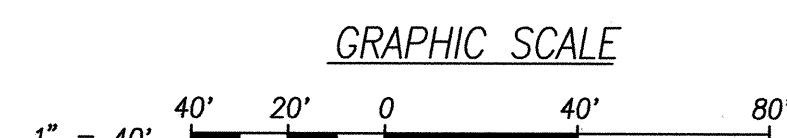
TYP. TRENCH DETAIL,  
ELEVATION VIEW  
NTS



LANDSCAPE KEY:

- BUFFEL GRASS, SEED W/ HYDROMULCH  
TEMPORARY IRRIGATION
- 3" LAYER WOOD MULCH OVER WEED BARRIER  
(TYP. SYM.)
- TEMPORARY GRASSING (OUTSIDE R.O.W.)  
RESTORE/PROVIDE BUFFEL GRASS AND  
TEMPORARY IRRIGATION FOR EROSION CONTROL.

PLANTING PLAN - 1  
SCALE: 1"=40'



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April 2008  
Expiration Date of the License

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

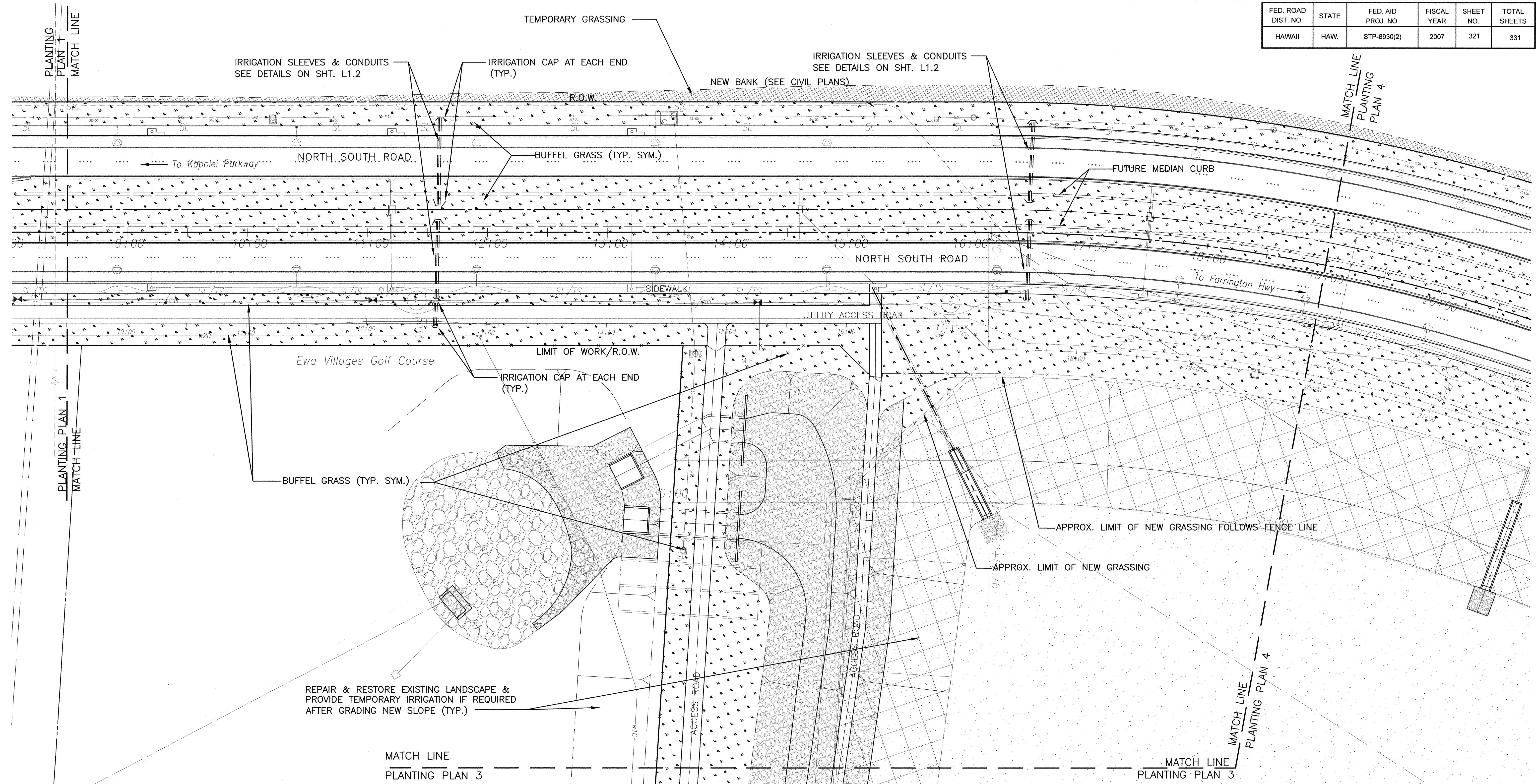
PLANTING PLAN - 1

North-South Road  
Phase 1B  
F.A.I. Proj. No. STP-8930(2)

Date: Feb 21, 2007

SHEET No. L1.2 OF 13 SHEETS

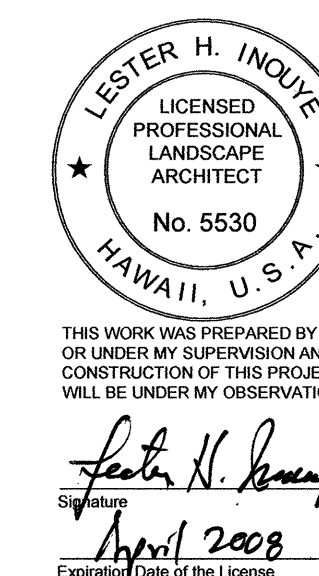
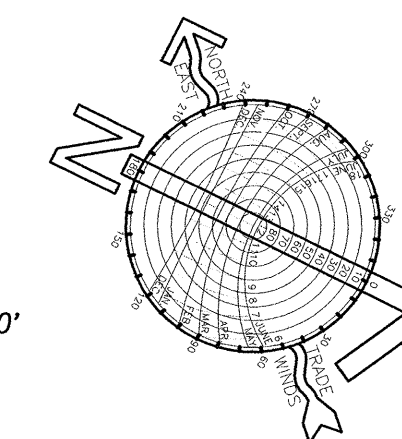
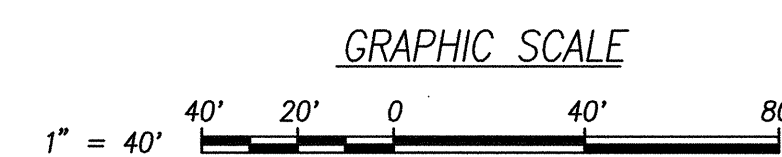
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-8930(2)        | 2007        | 321       | 331          |



|               |       |
|---------------|-------|
| DATE          | _____ |
| DESIGNED BY   | _____ |
| TRACED BY     | _____ |
| NOTE BOOK     | _____ |
| QUANTITIES BY | _____ |
| CHECKED BY    | _____ |
| No.           | _____ |

- LANDSCAPE KEY:**
- EXISTING GRASS TO REMAIN & PROTECTED  
RESTORE EXISTING GRASSING AS NEEDED  
(LANDSCAPE CONTRACTOR TO COORDINATE WITH  
THE MAINTENANCE CREW FOR PHASE 1A AREA.)
  - BUFFEL GRASS, SEED W/ HYDROMULCH  
TEMPORARY IRRIGATION
  - TEMPORARY GRASSING (OUTSIDE R.O.W.)  
RESTORE/PROVIDE BUFFEL GRASS AND  
TEMPORARY IRRIGATION FOR EROSION CONTROL.

**PLANTING PLAN - 2**  
SCALE: 1"=40'



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

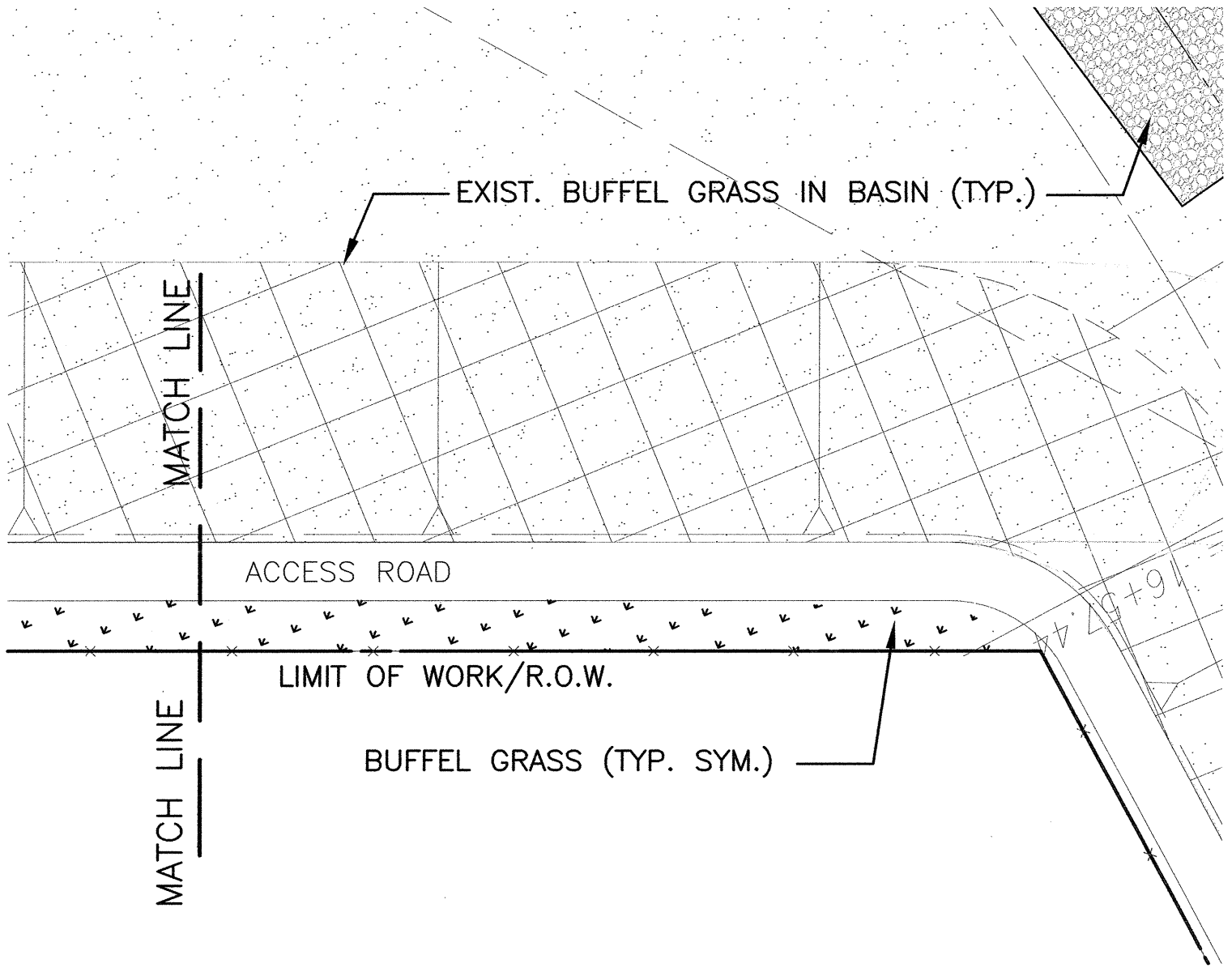
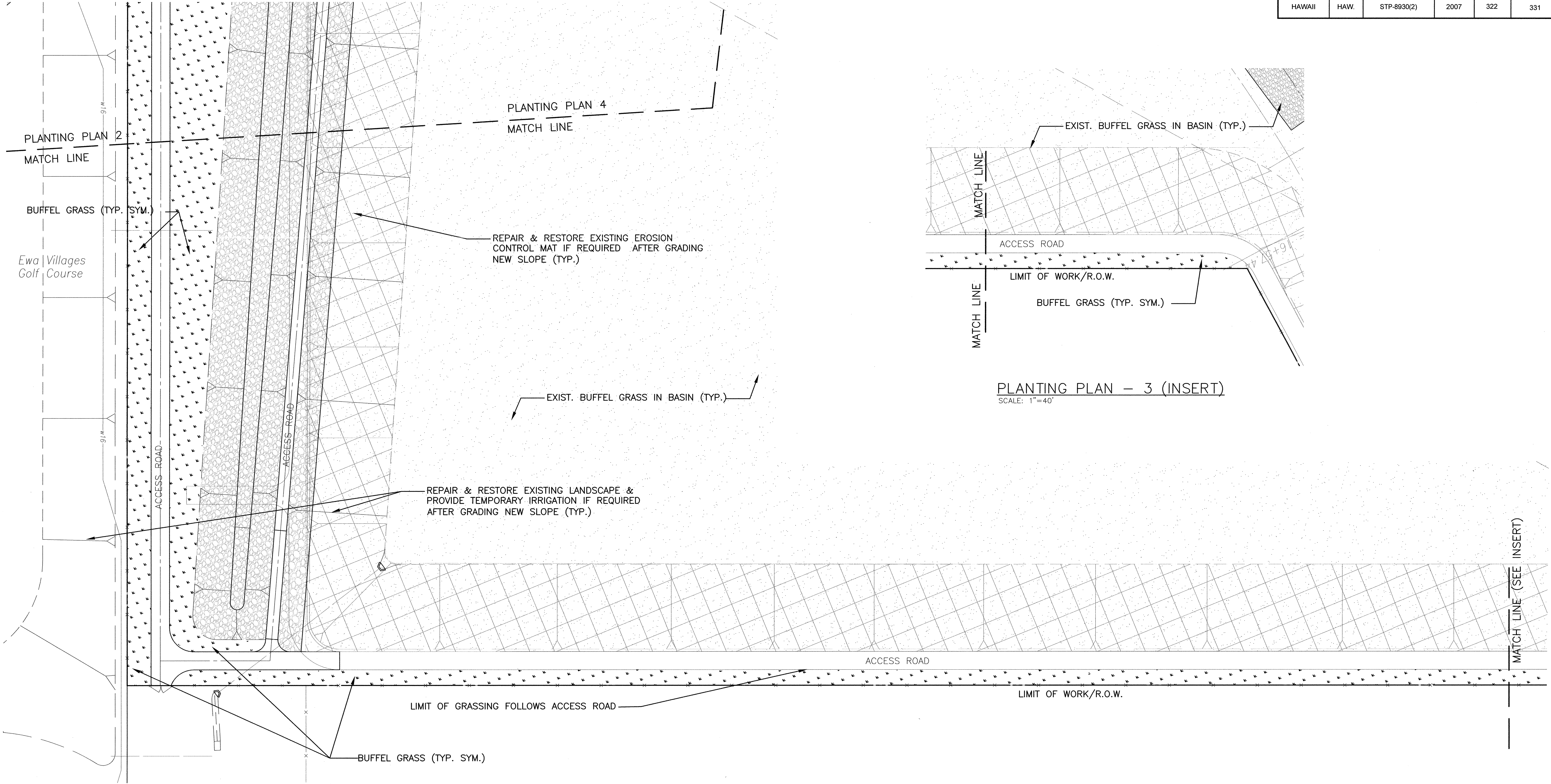
**PLANTING PLAN - 2**

North-South Road  
Phase 1B  
F.A.I. Proj. No. STP-8930(2)

Date: Feb 21, 2007

SHEET No. L1.3 OF 13 SHEETS

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
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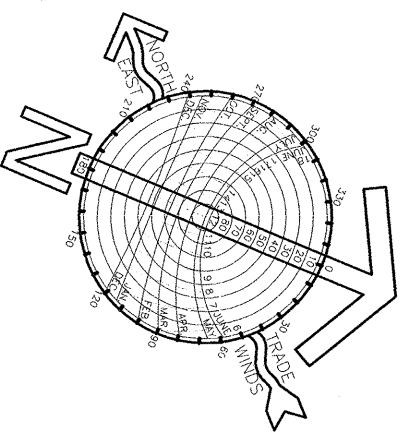
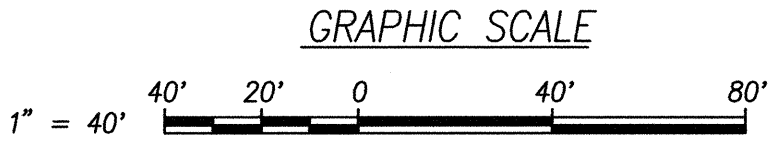


PLANTING PLAN – 3 (INSERT)  
SCALE: 1"=40'

PLANTING PLAN – 3  
SCALE: 1"=40'

- LANDSCAPE KEY:
- EXISTING GRASS TO REMAIN & PROTECTED (LANDSCAPE CONTRACTOR TO COORDINATE WITH THE MAINTENANCE CREW FOR PHASE 1A AREA.)
  - BUFFEL GRASS, SEED W/ HYDROMULCH

|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| TRACED BY         |      |
| NOTED BY          |      |
| CHECKED BY        |      |
| No.               |      |



LESTER H. INOUE  
LICENSED PROFESSIONAL LANDSCAPE ARCHITECT  
No. 5530  
HAWAII, U.S.A.

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*Lester H. Inoue*  
April 2008  
Expiration Date of the License

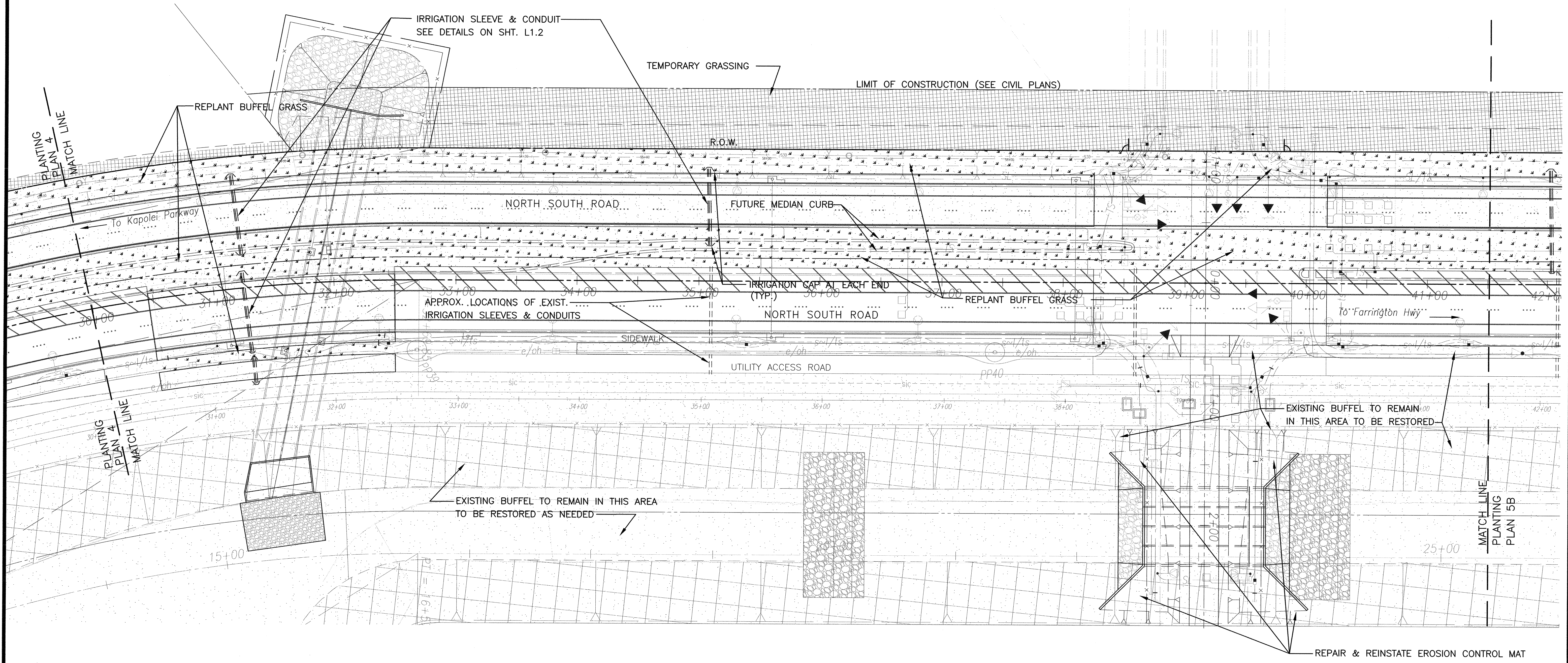
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

PLANTING PLAN – 3  
North-South Road  
Phase 1B  
F.A.I. Proj. No. STP-8930(2)

Date: Feb 21, 2007  
SHEET No. L1.4 OF 13 SHEETS

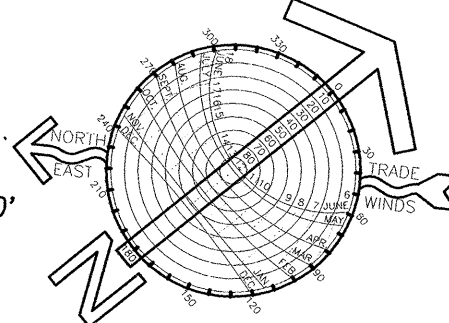
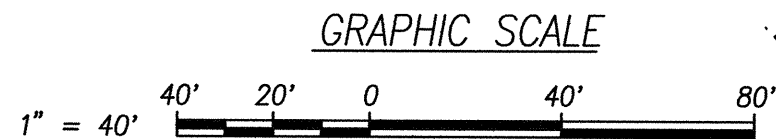


| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-8930(2)        | 2007        | 324       | 331          |



- LANDSCAPE KEY:
- EXISTING GRASS TO REMAIN & PROTECTED RESTORE AS NEEDED (LANDSCAPE CONTRACTOR TO COORDINATE WITH THE MAINTENANCE CREW FOR PHASE 1A AREA.)
  - BUFFEL GRASS, SEED W/ HYDROMULCH TEMPORARY IRRIGATION
  - TEMPORARY GRASSING (OUTSIDE R.O.W.) RESTORE/PROVIDE BUFFEL GRASS AND TEMPORARY IRRIGATION FOR EROSION CONTROL.

PLANTING PLAN - 5  
SCALE: 1"=40'



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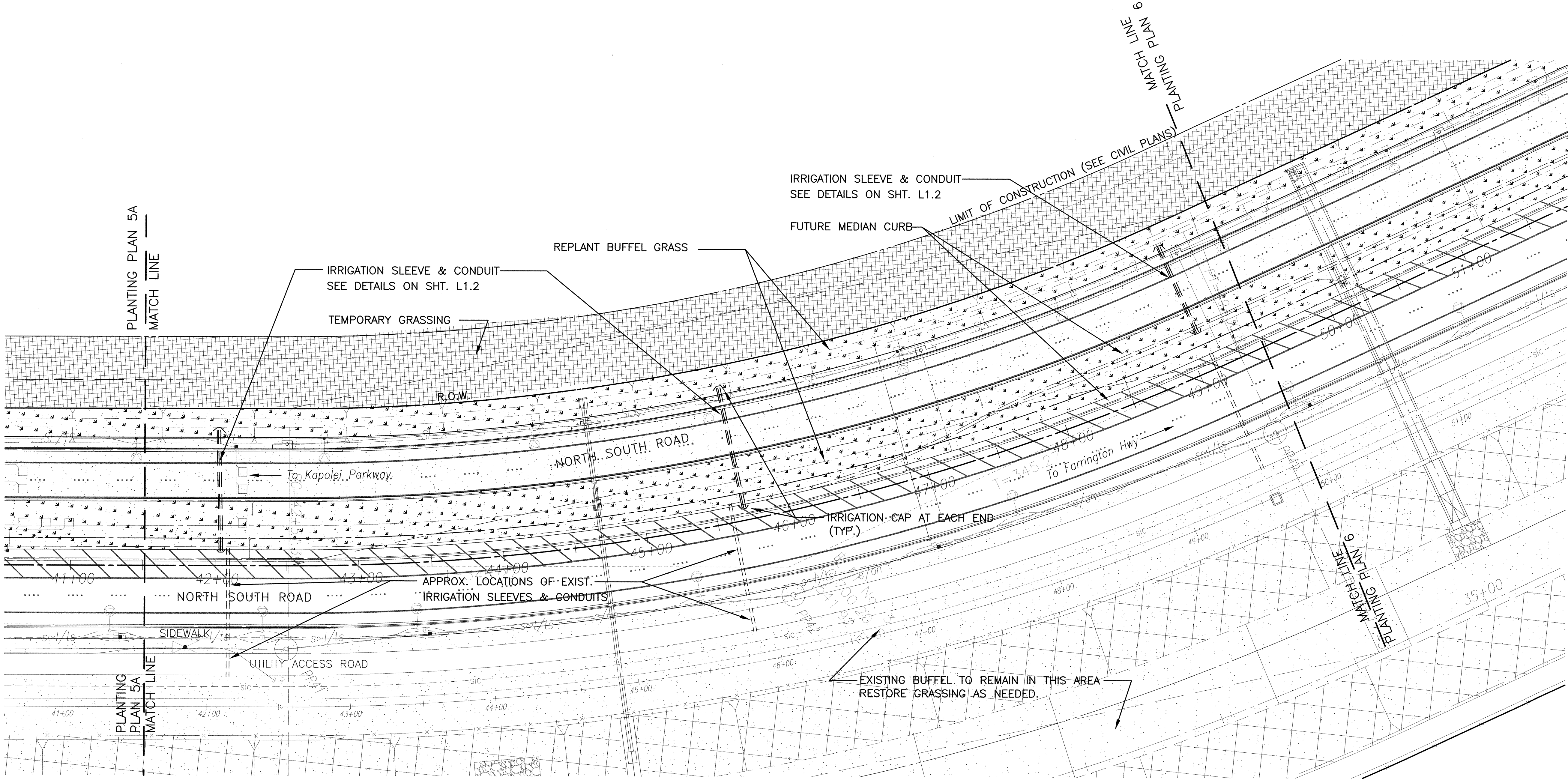
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

PLANTING PLAN - 5  
  
North-South Road  
Phase 1B  
F.A.I. Proj. No. STP-8930(2)

Date: Feb 21, 2007  
SHEET No. L1.6 OF 13 SHEETS

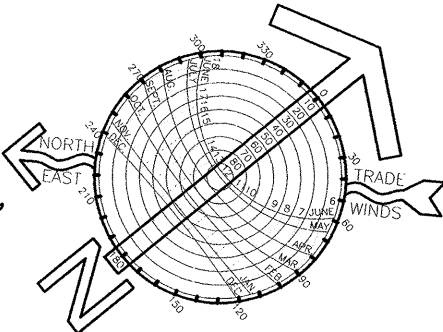
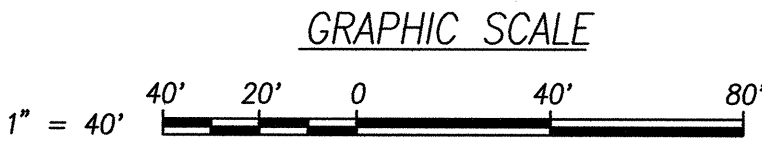
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| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| DESIGNED BY       |      |
| QUANTITIES BY     |      |
| CHECKED BY        |      |
| ORIGINAL PLAN     |      |
| NOTE BOOK         |      |
| No.               |      |

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-8930(2)        | 2007        | 325       | 331          |



- LANDSCAPE KEY:
- EXISTING GRASS TO REMAIN & PROTECTED  
RESTORE AS NEEDED  
(LANDSCAPE CONTRACTOR TO COORDINATE WITH  
THE MAINTENANCE CREW FOR PHASE 1A AREA.)
  - BUFFEL GRASS, SEED W/ HYDROMULCH  
TEMPORARY IRRIGATION
  - TEMPORARY GRASSING (OUTSIDE R.O.W.)  
RESTORE/PROVIDE BUFFEL GRASS AND  
TEMPORARY IRRIGATION FOR EROSION CONTROL.

PLANTING PLAN - 6  
SCALE: 1"=40'



LESTER H. INOUE  
LICENSED  
PROFESSIONAL  
LANDSCAPE  
ARCHITECT  
No. 5530  
HAWAII, U.S.A.

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CONSTRUCTION OF THIS PROJECT  
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April 2008  
Expiration Date of the License

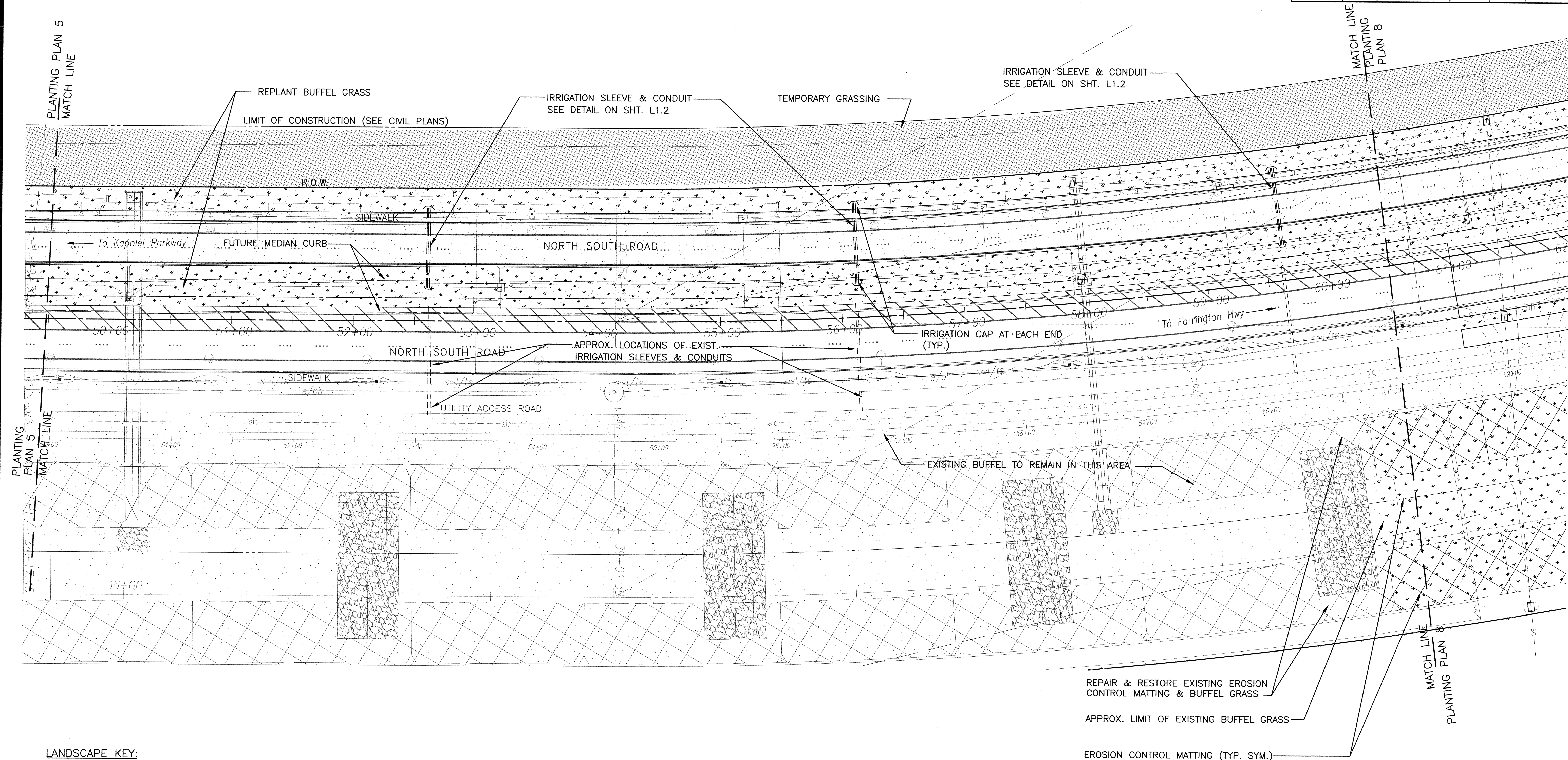
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

PLANTING PLAN - 6  
  
North-South Road  
Phase 1B  
F.A.I. Proj. No. STP-8930(2)

Date: Feb 21, 2007  
SHEET No. L1.7 OF 13 SHEETS

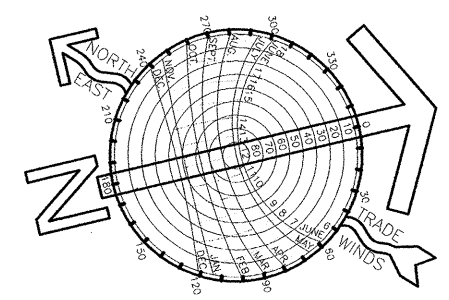
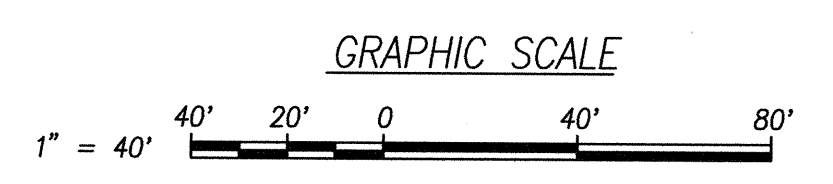
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| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| NOTE BOOK     | DRAWN BY          |      |
|               | DESIGNED BY       |      |
|               | QUANTITIES BY     |      |
|               | CHECKED BY        |      |
| No.           |                   |      |

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-8930(2)        | 2007        | 326       | 331          |



- LANDSCAPE KEY:
- EXISTING GRASS TO REMAIN & PROTECTED RESTORE EXISTING GRASS AS NEEDED (LANDSCAPE CONTRACTOR TO COORDINATE WITH THE MAINTENANCE CREW FOR PHASE 1A AREA.)
  - BUFFEL GRASS, SEED W/ HYDROMULCH TEMPORARY IRRIGATION
  - TEMPORARY GRASSING (OUTSIDE R.O.W.) RESTORE/PROVIDE BUFFEL GRASS AND TEMPORARY IRRIGATION FOR EROSION CONTROL.
  - EROSION CONTROL MATTING OVER BUFFEL GRASS, SEED W/ HYDROMULCH TEMPORARY IRRIGATION

PLANTING PLAN - 7  
SCALE: 1"=40'



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April 2008

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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PLANTING PLAN - 7**

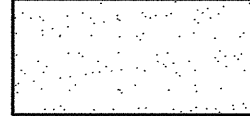
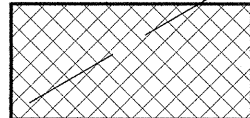
North-South Road  
Phase 1B  
F.A.I. Proj. No. STP-8930(2)

Date: Feb 21, 2007

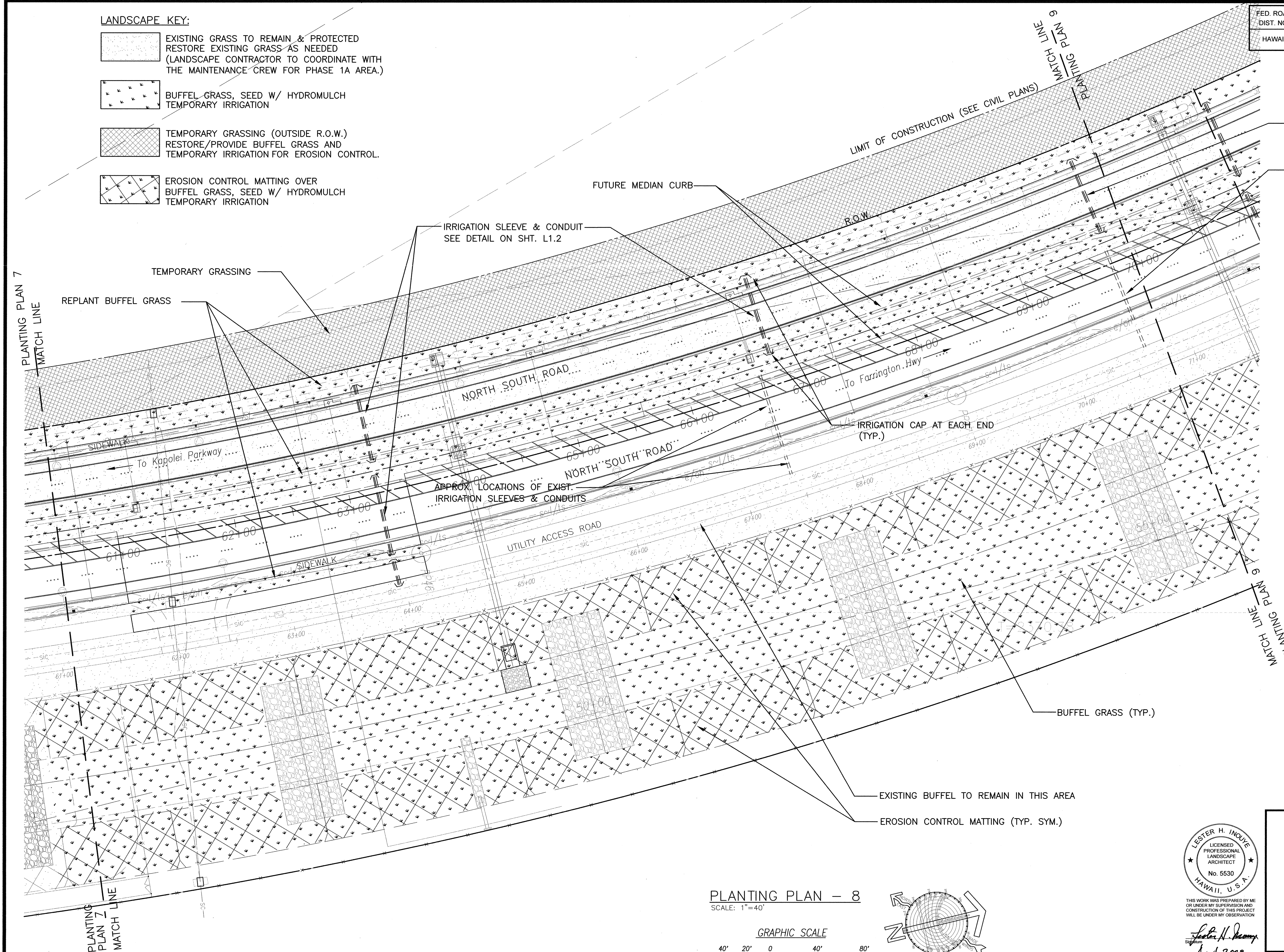
SHEET No. L1.8 OF 13 SHEETS

|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| DESIGNED BY       |      |
| CHECKED BY        |      |
| ORIGINAL PLAN     |      |
| NOTE BOOK         |      |
| No.               |      |

LANDSCAPE KEY:

-  EXISTING GRASS TO REMAIN & PROTECTED RESTORE EXISTING GRASS AS NEEDED (LANDSCAPE CONTRACTOR TO COORDINATE WITH THE MAINTENANCE CREW FOR PHASE 1A AREA.)
-  BUFFEL GRASS, SEED W/ HYDROMULCH TEMPORARY IRRIGATION
-  TEMPORARY GRASSING (OUTSIDE R.O.W.) RESTORE/PROVIDE BUFFEL GRASS AND TEMPORARY IRRIGATION FOR EROSION CONTROL.
-  EROSION CONTROL MATTING OVER BUFFEL GRASS, SEED W/ HYDROMULCH TEMPORARY IRRIGATION

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-8930(2)        | 2007        | 327       | 331          |



IRRIGATION SLEEVES & CONDUITS (TYP. SUM.) SEE SHT. L1.2 FOR DETAILS.

APPROX. LOCATIONS OF EXISTING SLEEVES & CONDUITS

BUFFEL GRASS (TYP.)

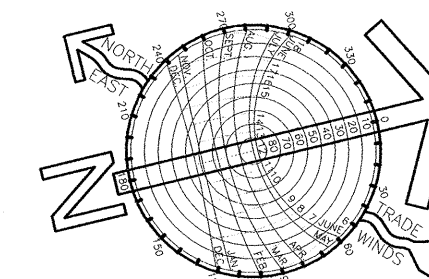
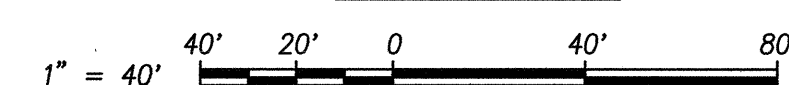
EXISTING BUFFEL TO REMAIN IN THIS AREA

EROSION CONTROL MATTING (TYP. SYM.)

|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| TRACED BY         |      |
| DESIGNED BY       |      |
| CHECKED BY        |      |
| No.               |      |

PLANTING PLAN - 8  
SCALE: 1"=40'

GRAPHIC SCALE



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April 2003  
Expiry Date of the License

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HIGHWAYS DIVISION

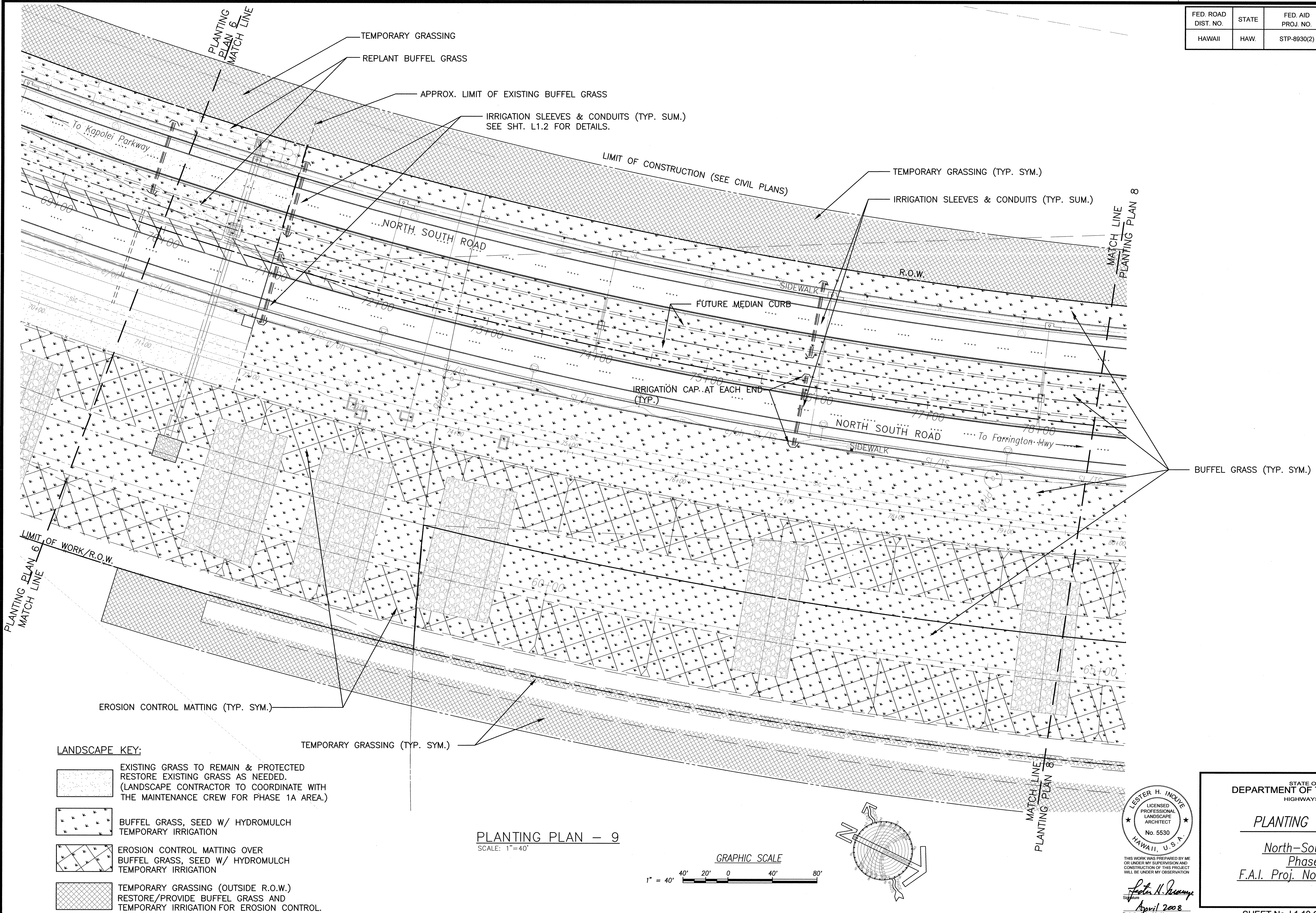
PLANTING PLAN - 8

North-South Road  
Phase 1B  
F.A.I. Proj. No. STP-8930(2)

Date: Feb 21, 2007

SHEET No. L1.9 OF 13 SHEETS

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-8930(2)        | 2007        | 328       | 331          |



|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| TRACED BY         |      |
| NOTED BY          |      |
| CHECKED BY        |      |
| ORIGINAL PLAN     |      |
| NOTE BOOK         |      |
| No.               |      |



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*Lester H. Inoué*  
April 2008  
Expiration Date of the License

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

PLANTING PLAN - 9

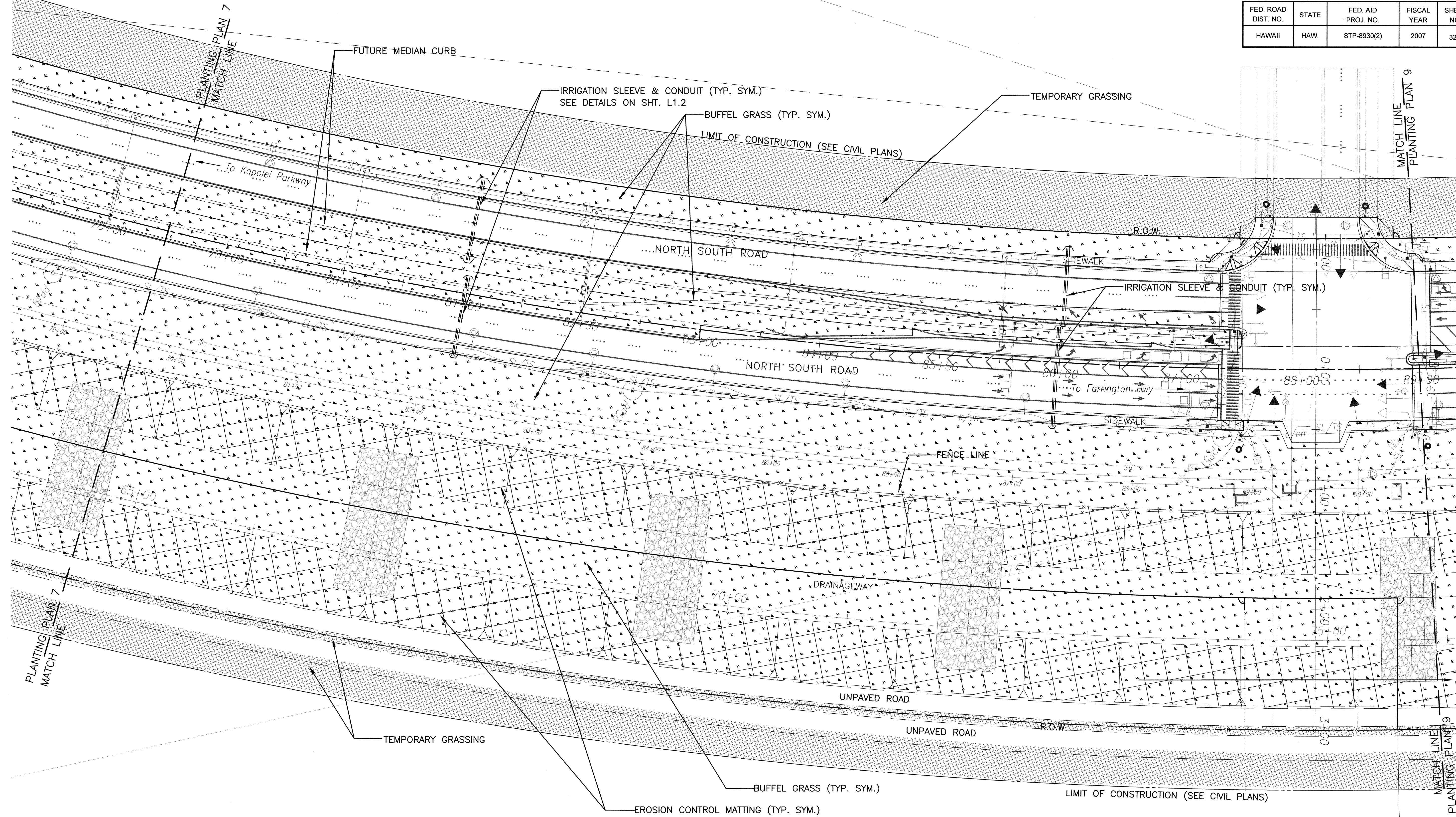
North-South Road  
Phase 1B

F.A.I. Proj. No. STP-8930(2)

Date: Feb 21, 2007

SHEET No. L1.10 OF 13 SHEETS

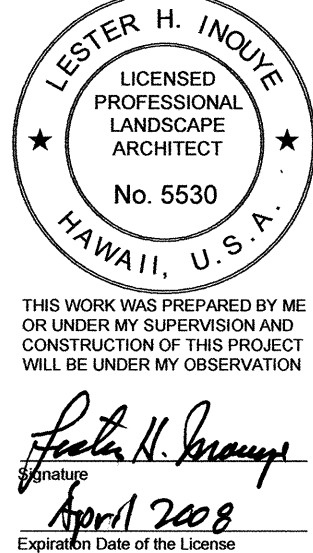
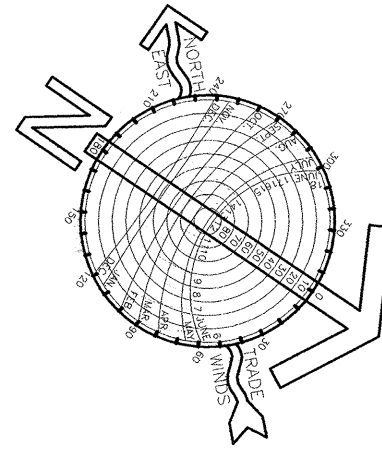
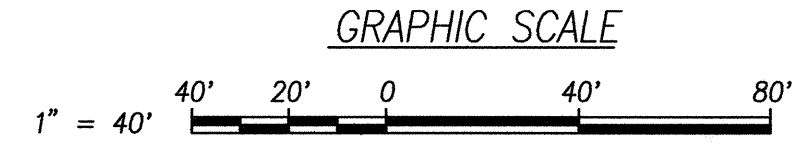
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-8930(2)        | 2007        | 329       | 331          |



|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| NOTED BY          |      |
| CHECKED BY        |      |
| No.               |      |

- LANDSCAPE KEY:
- BUFFEL GRASS, SEED W/ HYDROMULCH  
TEMPORARY IRRIGATION
  - EROSION CONTROL MATTING OVER  
BUFFEL GRASS, SEED W/ HYDROMULCH  
TEMPORARY IRRIGATION
  - TEMPORARY GRASSING (OUTSIDE R.O.W.)  
RESTORE/PROVIDE BUFFEL GRASS AND  
TEMPORARY IRRIGATION FOR EROSION CONTROL.

PLANTING PLAN - 10  
SCALE: 1"=40'



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

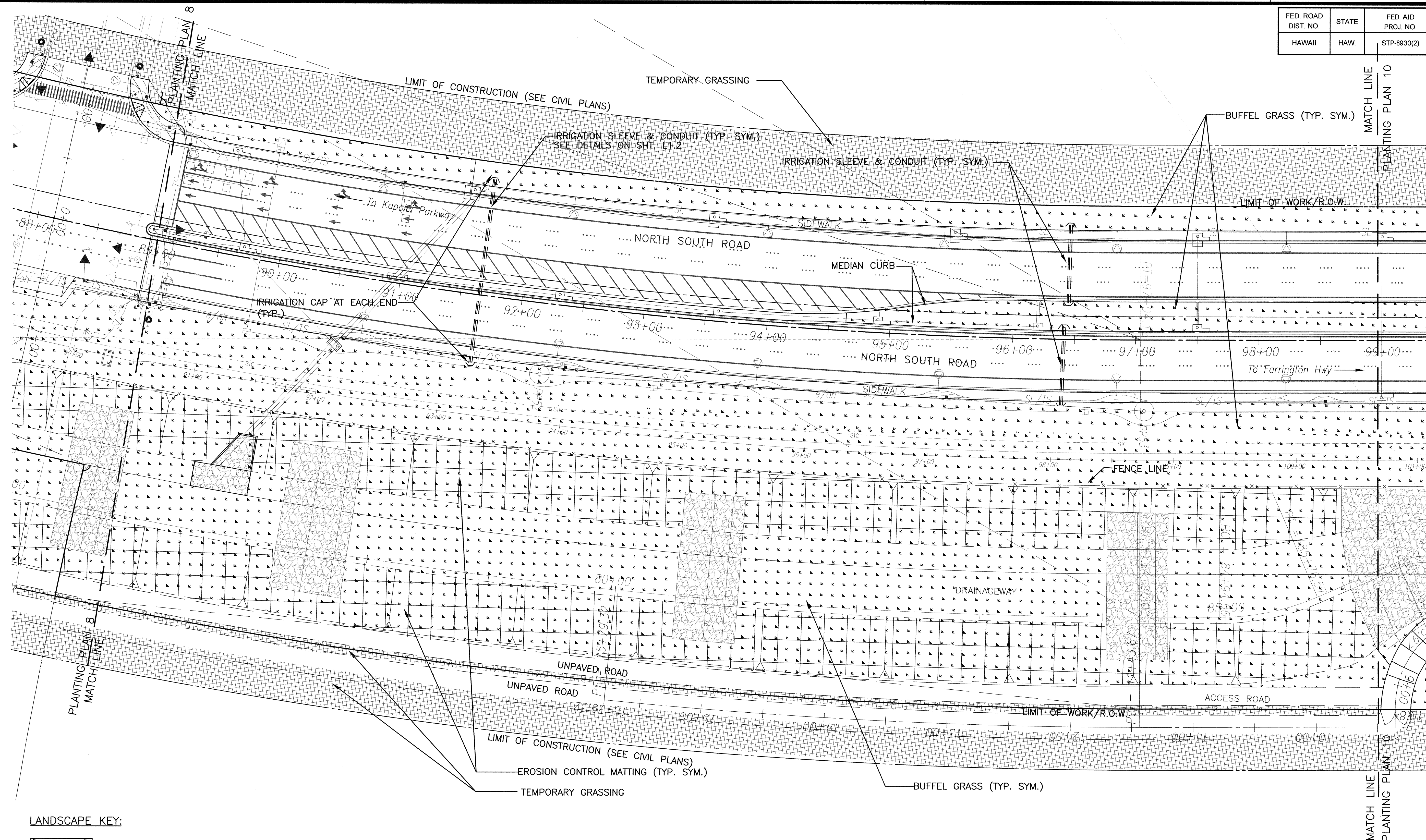
**PLANTING PLAN - 10**

*North-South Road*  
*Phase 1B*  
*F.A.I. Proj. No. STP-8930(2)*

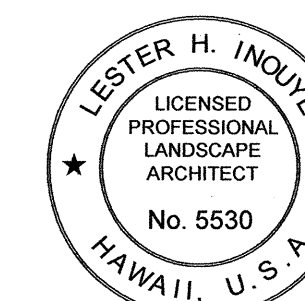
Date: Feb 21, 2007

SHEET No. L1.11 OF 13 SHEETS

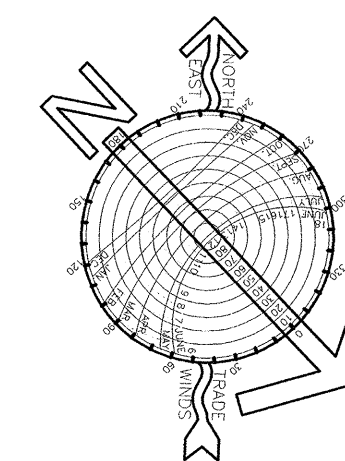
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-8930(2)        | 2007        | 330       | 331          |



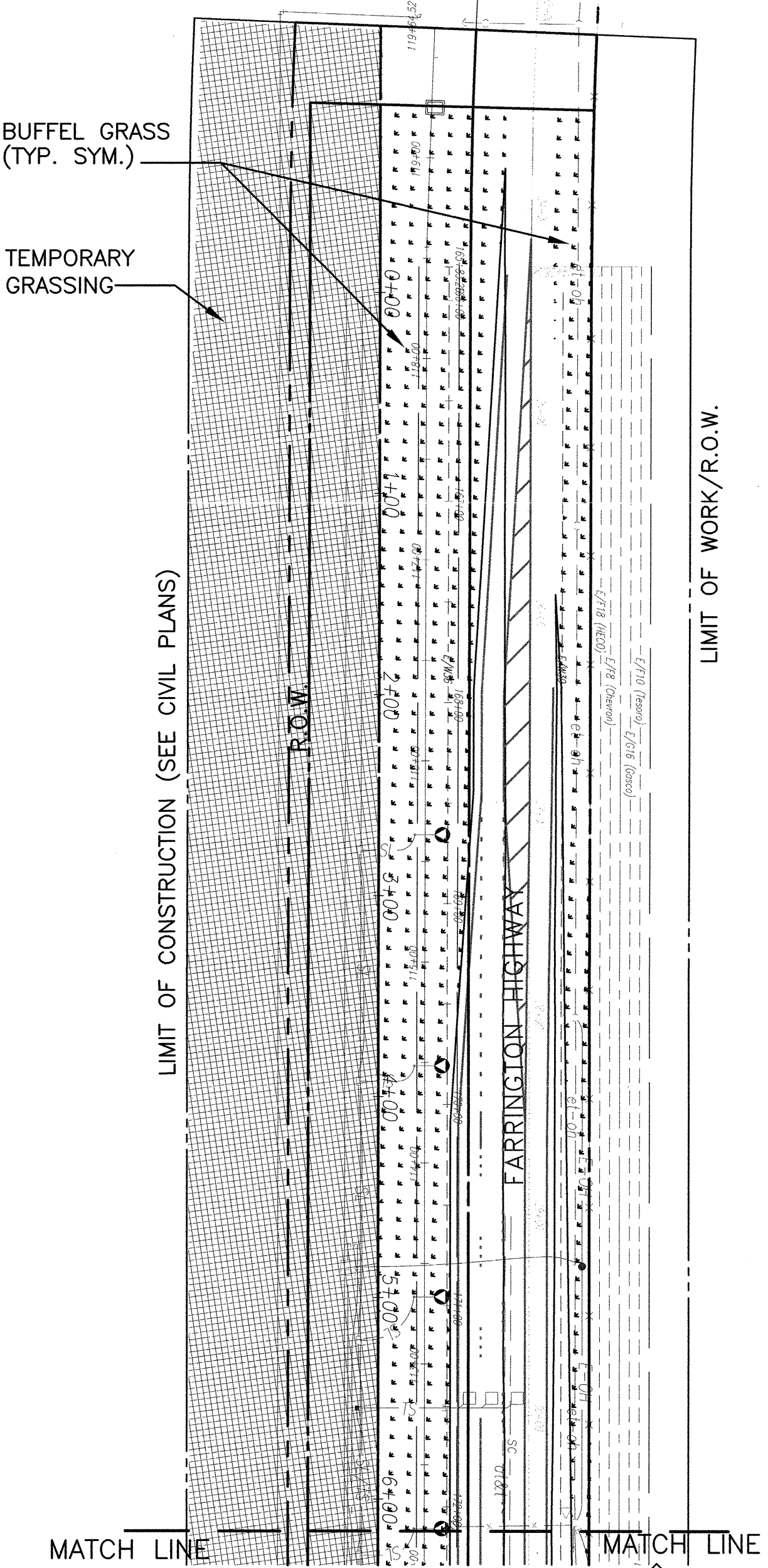
ORIGINAL PLAN  
DATE: \_\_\_\_\_  
SURVEY PLOTTED BY: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_  
NOTED BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
No. \_\_\_\_\_



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April 2002  
Expiration Date of the License

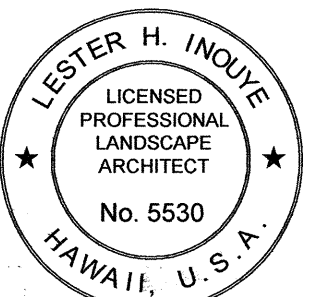
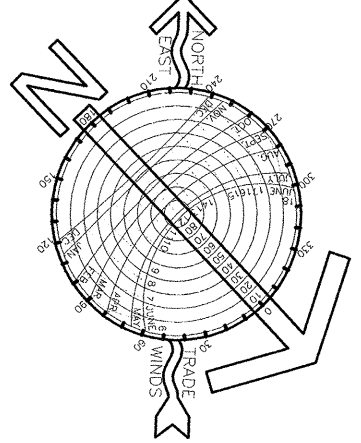


| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-8930(2)        | 2007        | 331       | 331          |



PLANTING PLAN - 12B  
SCALE: 1"=60'

GRAPHIC SCALE



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*Lester H. Inoue*  
April 08  
Expiration Date of the License

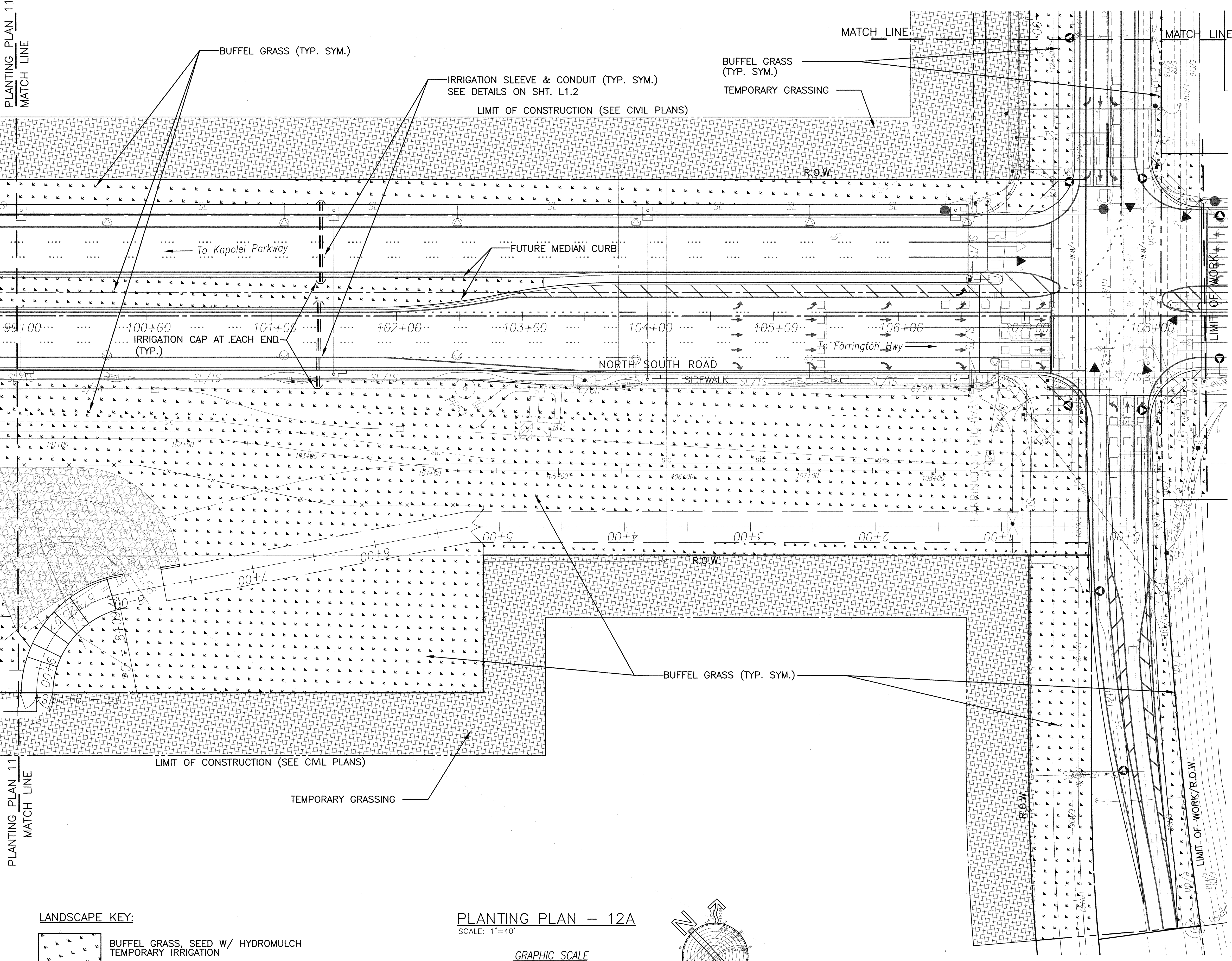
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

PLANTING PLAN - 12

North-South Road  
Phase 1B  
F.A.I. Proj. No. STP-8930(2)

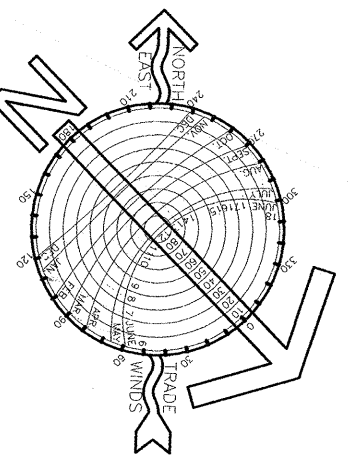
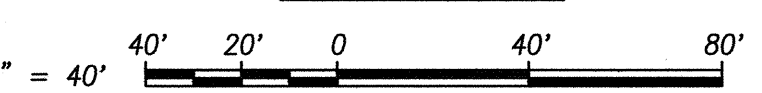
Date: Feb 21, 2007

SHEET No. L1.13 OF 13 SHEETS



PLANTING PLAN - 12A  
SCALE: 1"=40'

GRAPHIC SCALE



LANDSCAPE KEY:

- BUFFEL GRASS, SEED W/ HYDROMULCH  
TEMPORARY IRRIGATION
- TEMPORARY GRASSING (OUTSIDE R.O.W.)  
RESTORE/PROVIDE BUFFEL GRASS AND  
TEMPORARY IRRIGATION FOR EROSION CONTROL.

|               |                   |      |
|---------------|-------------------|------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| NOTE BOOK     | DRAWN BY          |      |
|               | DESIGNED BY       |      |
|               | QUANTITIES BY     |      |
|               | CHECKED BY        |      |
| No.           |                   |      |