

Wetland Impact Table

| Wetland Number | Location | Wetland Feature | USACE Jurisdictional Wetlands ¹ | Wetland Impacts Acre(s) | | USFWS Easement Impacts Acre(s) | | Wetland Mitigation | | | | | | | | | | | | | |
|----------------|---------------------|-----------------|--|-------------------------|-------|--------------------------------|-------|---------------------|-------|-------|------------------|---------|------------|---------|------------|---------|----------------------------|---------|--------------------|--------------------------|--|
| | | | | Temp. | Perm. | Temp. | Perm. | Mitigation Required | | | USACE/11990 Bank | | 11990 Bank | | USFWS Bank | | Onsite | | | | |
| | | | | | | | | EO 11990 | USACE | USFWS | Location | Acre(s) | Location | Acre(s) | Location | Acre(s) | Mitigation Location; Ratio | Acre(s) | Constructed Site # | Constructed Size Acre(s) | |
| 1a | Sec.23, T139N, R81W | Artificial | Yes | | | | | N | N | N | | | | | | | | | | | |
| 1b | Sec.23, T139N, R81W | Artificial | Yes | | | | | N | N | N | | | | | | | | | | | |
| 1c | Sec.23, T139N, R81W | Artificial | Yes | | | | | N | N | N | | | | | | | | | | | |
| 1d | Sec.23, T139N, R81W | Artificial | Yes | 0.05 | | | | N | N | N | | | | | | | | | | | |
| 2a | Sec.23, T139N, R81W | Artificial | Yes | | | | | N | N | N | | | | | | | | | | | |
| 2b | Sec.23, T139N, R81W | Artificial | Yes | | | | | N | N | N | | | | | | | | | | | |
| 2c | Sec.23, T139N, R81W | Artificial | Yes | | | | | N | N | N | | | | | | | | | | | |
| 2d | Sec.23, T139N, R81W | Artificial | Yes | | | | | N | N | N | | | | | | | | | | | |
| 2e | Sec.23, T139N, R81W | Artificial | Yes | | | | | N | N | N | | | | | | | | | | | |

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ND 1806 Interchange
Wetlands Mitigation and Environmental

| | | | | | | | | | | | | | | | | | | |
|---------------|---------------------------|------------|-----|-------------|----------|----------|----------|---|---|---|----------|----------|----------|----------|----------|----------|----------|----------|
| 3 | Sec.23, T139N, R81W | Artificial | No | | | | | N | N | N | | | | | | | | |
| 4 | Sec.23, T139N, R81W | Artificial | Yes | | | | | N | N | N | | | | | | | | |
| Totals | | | | 0.05 | 0 | 0 | 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

¹ A wetland Jurisdictional Determination was issued by the USACE on 02/07/2019; NWO-2006-60561-BIS.

² 1199 Mitigation requirements - All impacts to natural wetlands (natural/jurisdictional and natural/non-jurisdictional), regardless of size, as well as impacts greater than 0.10 acre to wetlands require mitigation.

USACE Mitigation Requirements – All jurisdictional impacts greater than 0.10 acre to each resource (cumulative. eg 1a ,1b,1c..etc.) requires mitigation. Other Water impact greater than 300 linear feet requires mitigation.

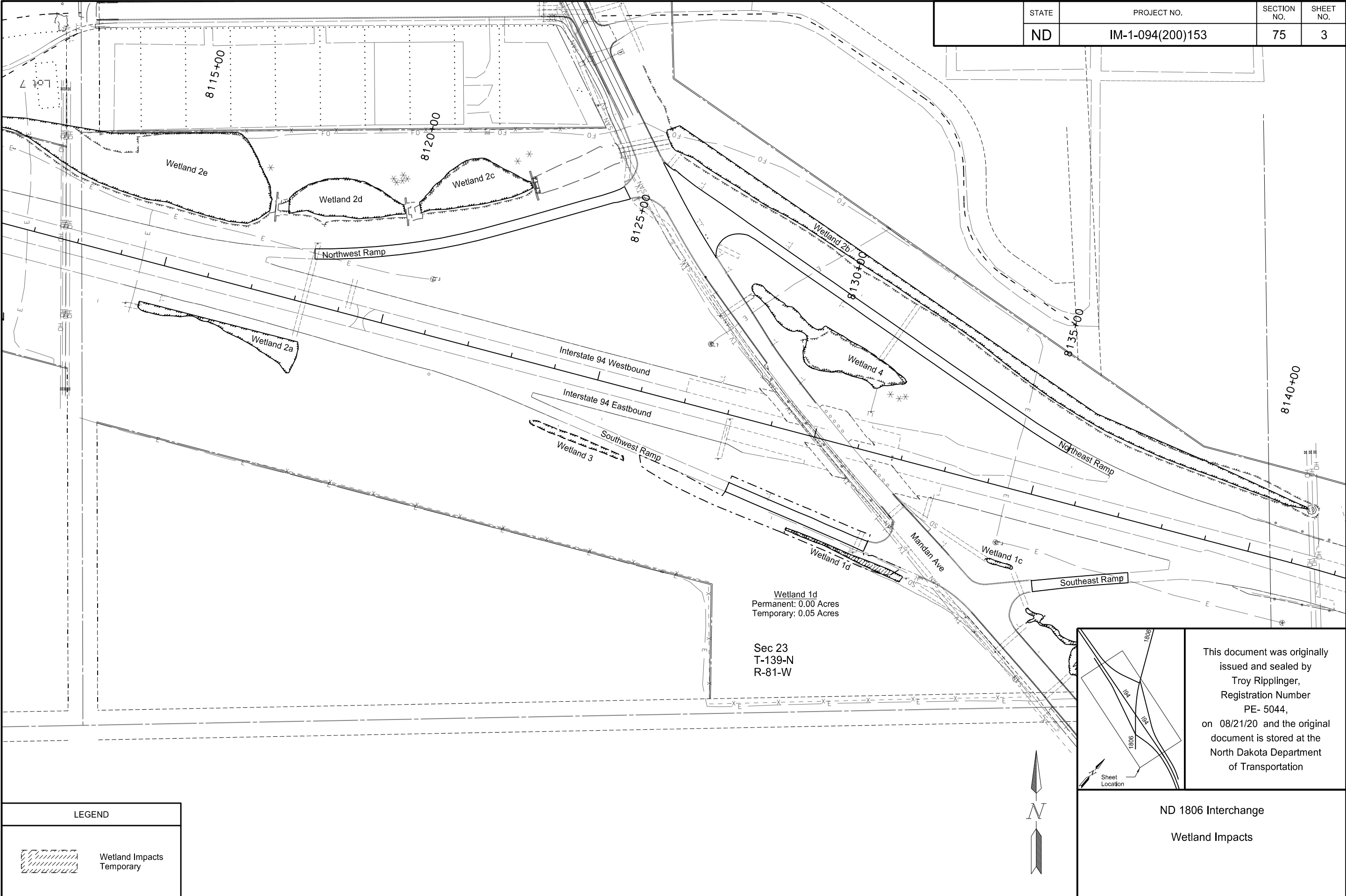
³ All artificial/non-jurisdictional, deep water (impacts greater than 6.6 feet), Other Waters less than 300 linear feet (determined by the USACE on a case by case), and temporary impacts do not require mitigation.

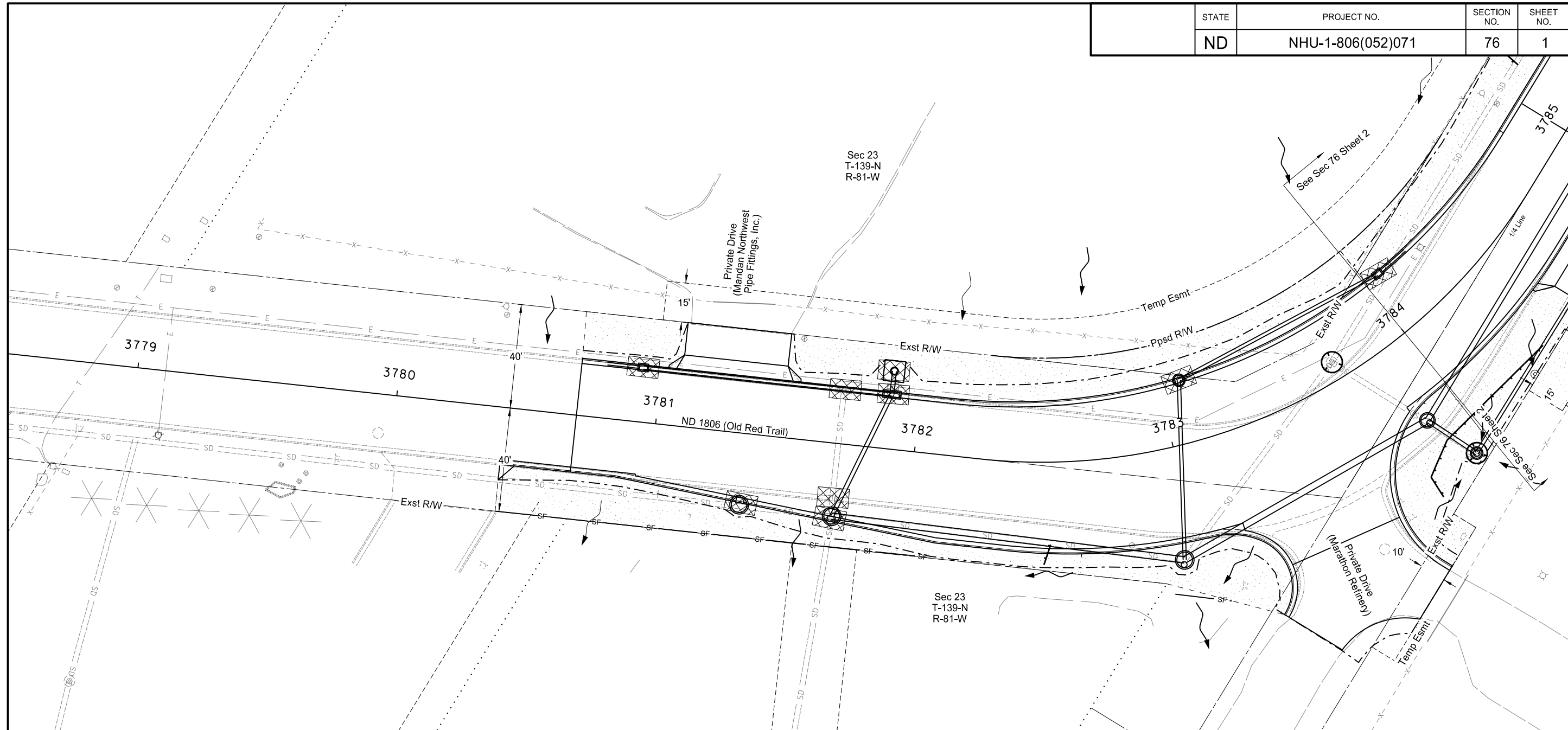
| Impact Summary Table | | | |
|--------------------------|---------------|--|------------------|
| Permanent Impact Summary | | Temporary Impacts and additional information | |
| Wetland Type | Total (Acres) | Wetland Type | Total (Acres/Lf) |
| Natural/JD | 0 | Temporary JD | 0.05 |
| Natural/Non-JD | 0 | Non-JD Temporary | 0 |
| Artificial/JD | 0 | Permanent JD > 0.10 | 0 |
| Artificial /Non-JD | 0 | Permanent OW | 0 |
| Total | 0 | Temporary OW | 0 |

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ND 1806 Interchange
Wetlands Mitigation and Environmental

| | | | |
|-------|------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | IM-1-094(200)153 | 75 | 3 |





| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|--|--------|----------|
| 251 | 2000 TEMPORARY COVER CROP Sta 3780+42 to Sta 3784+00 | 0.228 | ACRE |
| 253 | 0201 HYDRAULIC MULCH Sta 3780+42 to Sta 3784+00 | 0.228 | ACRE |
| 260 | 0100 SILT FENCE UNSUPPORTED Sta 3780+42 to Sta 3784+00 | 190 | LF |
| 260 | 0101 REMOVE SILT FENCE UNSUPPORTED Sta 3780+42 to Sta 3784+00 | 190 | LF |
| 261 | 0112 FIBER ROLLS 12IN Sta 3780+42 to Sta 3784+00 | 60 | LF |
| 261 | 0113 REMOVE FIBER ROLLS 12IN Sta 3780+42 to Sta 3784+00 | 60 | LF |
| 708 | 1531 INLET PROTECTION-FIBER ROLL 12IN 3783+70.1 7.3' Lt 3783+93.7 53.5' Rt | 1 1 | EA EA |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|--|--------------------------------------|--|
| 708 | 1533 REMOVAL INLET PROTECTION-FIBER ROLL 12IN 3783+70.1 7.3' Lt 3783+93.7 53.5' Rt | 1 1 | EA EA |
| 708 | 1540 INLET PROTECTION-SPECIAL 3780+93.0 21.0' Lt 3781+35.2 27.7' Rt 3781+70.7 21.3' Rt 3781+70.8 28.5' Rt 3781+71.1 20.5' Lt 3781+89.0 20.8' Lt 3781+89.1 30.1' Lt 3783+09.1 24.1' Lt | 1 1 1 1 1 1 1 1 | EA EA EA EA EA EA EA EA |
| 708 | 1541 REMOVE INLET PROTECTION-SPECIAL 3780+93.0 21.0' Lt 3781+35.2 27.7' Rt 3781+70.7 21.3' Rt 3781+70.8 28.5' Rt 3781+71.1 20.5' Lt 3781+89.0 20.8' Lt 3781+89.1 30.1' Lt 3783+09.1 24.1' Lt | 1 1 1 1 1 1 1 1 | EA EA EA EA EA EA EA EA |

LEGEND

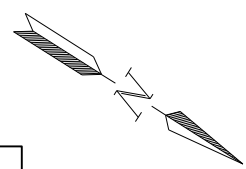
- Fiber Rolls 12IN
- Silt Fence
- Temporary Cover Crop & Hydromulch
- Flow Arrow
- Inlet Protection-Special
- Inlet Protection-Fiber Roll 12IN

Ditch Checks

| Ditch Grade | Spacing (ft) |
|-------------|--------------|
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

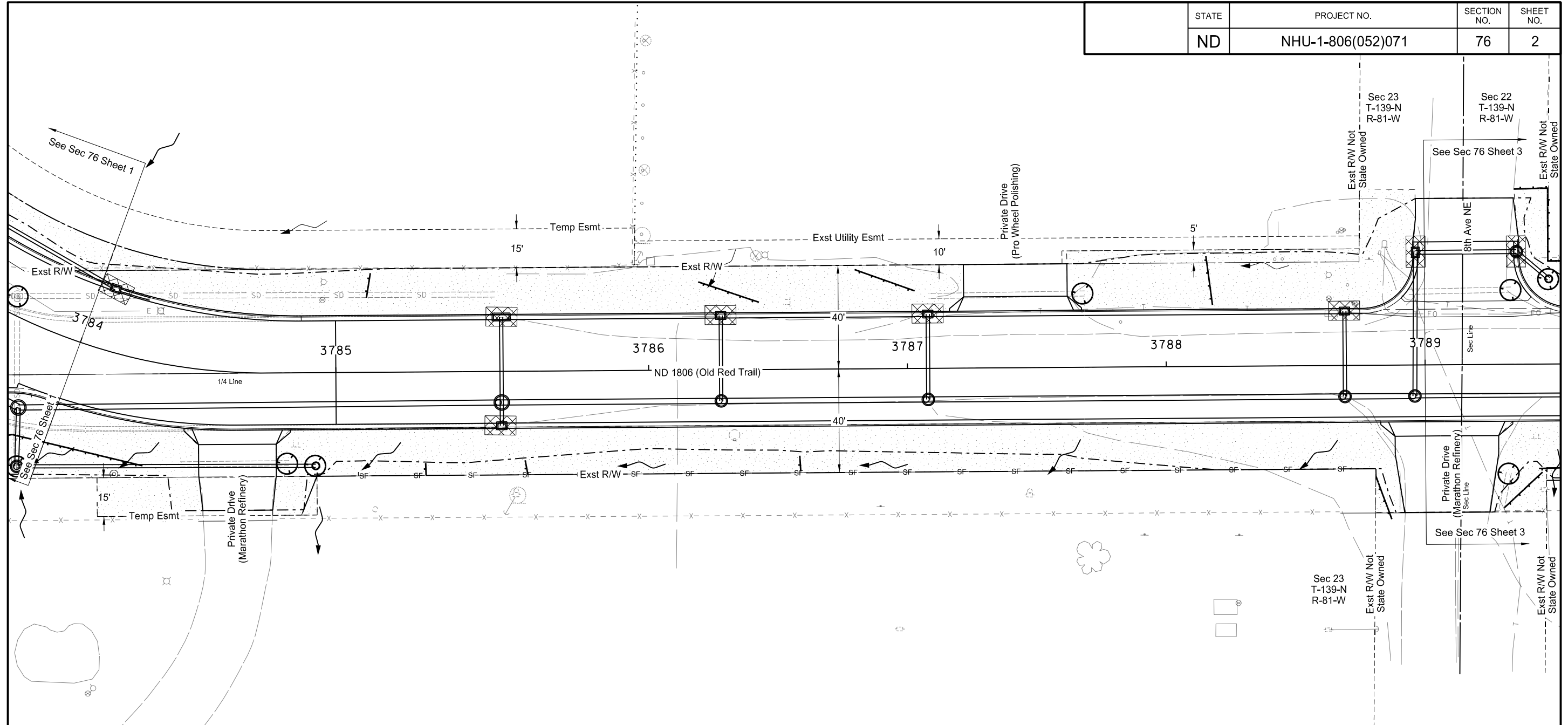
Slope Protection

| Slope | Spacing (ft) |
|----------------|--------------|
| 3:1 | 45' |
| 4:1 or flatter | 60' |



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ND 1806
 Temporary Sediment & Erosion Control
 ND 1806
 Sta 3780+00 to 3784+00

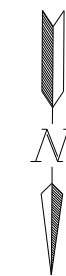


| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------------|----------------|
| 251 | 2000 TEMPORARY COVER CROP Sta 3784+00 to Sta 3789+00 | 0.531 | ACRE |
| 253 | 0201 HYDRAULIC MULCH Sta 3784+00 to Sta 3789+00 | 0.531 | ACRE |
| 260 | 0100 SILT FENCE UNSUPPORTED Sta 3784+00 to Sta 3789+00 | 425 | LF |
| 260 | 0101 REMOVE SILT FENCE UNSUPPORTED Sta 3784+00 to Sta 3789+00 | 425 | LF |
| 261 | 0112 FIBER ROLLS 12IN Sta 3784+00 to Sta 3789+00 | 150 | LF |
| 261 | 0113 REMOVE FIBER ROLLS 12IN Sta 3784+00 to Sta 3789+00 | 150 | LF |
| 708 | 1531 INLET PROTECTION-FIBER ROLL 12IN 3784+80.9 34.9' Rt 3784+92.1 35.9' Rt 3787+68.0 28.5' Lt | 1 1 1 | EA EA EA |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|----------------------------|----------------------------------|
| 708 | 1533 REMOVAL INLET PROTECTION-FIBER ROLL 12IN 3784+80.9 34.9' Rt 3784+92.1 35.9' Rt 3787+68.0 28.5' Lt | 1 1 1 | EA EA EA |
| 708 | 1540 INLET PROTECTION-SPECIAL 3785+64.0 21.0' Lt 3785+64.0 21.0' Rt 3786+28.0 21.0' Lt 3787+08.0 21.0' Lt 3788+69.0 21.0' Lt 3788+97.6 43.6' Lt | 1 1 1 1 1 1 | EA EA EA EA EA EA |
| 708 | 1541 REMOVE INLET PROTECTION -SPECIAL 3785+64.0 21.0' Lt 3785+64.0 21.0' Rt 3786+28.0 21.0' Lt 3787+08.0 21.0' Lt 3788+69.0 21.0' Lt 3788+97.6 43.6' Lt | 1 1 1 1 1 1 | EA EA EA EA EA EA |

| Ditch Grade | Spacing (ft) |
|-------------|--------------|
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

| Slope | Spacing (ft) |
|----------------|--------------|
| 3:1 | 45' |
| 4:1 or flatter | 60' |

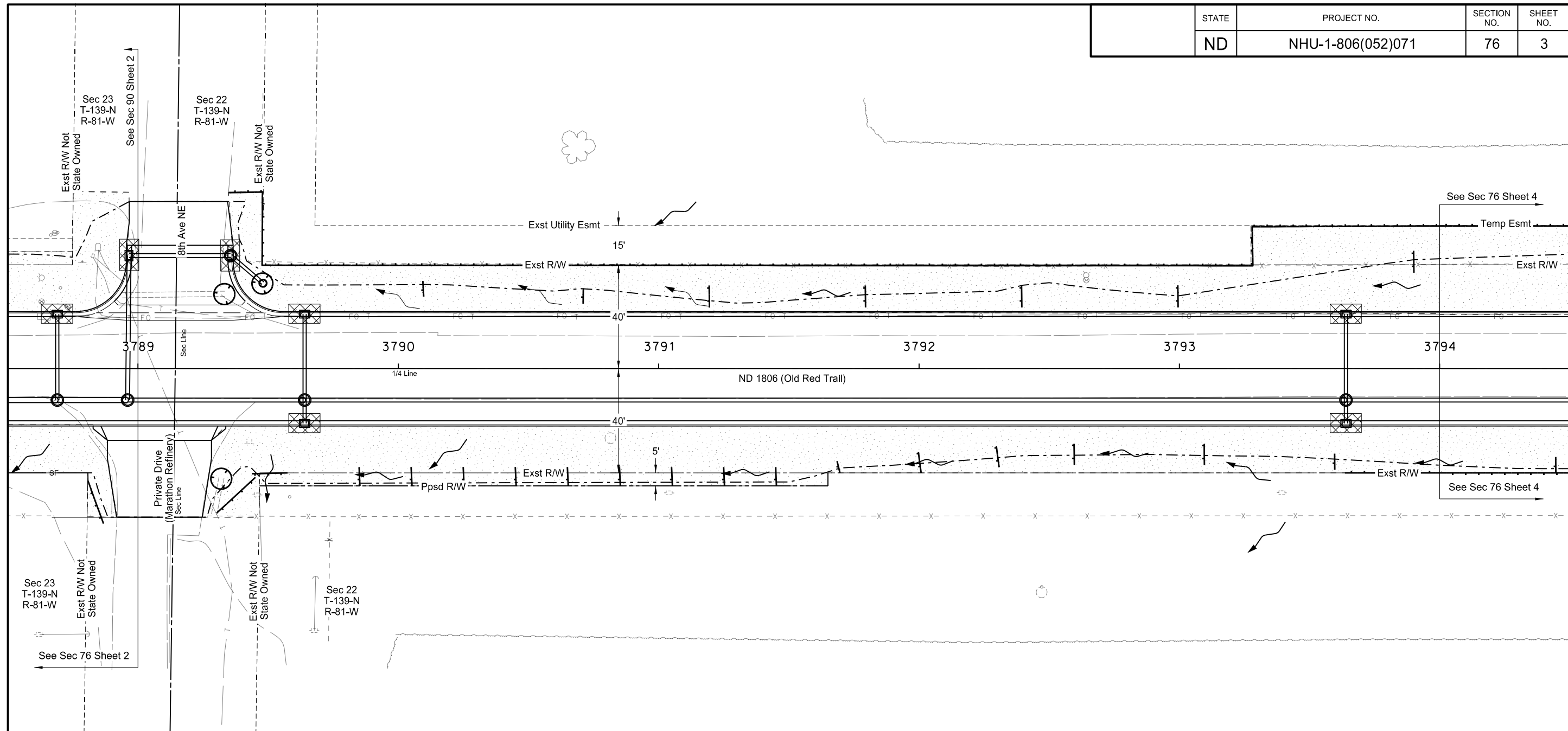


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ND 1806
Temporary Sediment & Erosion Control
ND 1806
Sta 3784+00 to 3789+00

LEGEND

- Fiber Rolls 12IN
- Silt Fence
- Temporary Cover Crop & Hydromulch
- Flow Arrow
- Inlet Protection-Special
- Inlet Protection-Fiber Roll 12IN



| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|--|-------|------|
| 251 | 2000 TEMPORARY COVER CROP Sta 3789+00 to Sta 3794+00 | 0.454 | ACRE |
| 253 | 0201 HYDRAULIC MULCH Sta 3789+00 to Sta 3794+00 | 0.454 | ACRE |
| 261 | 0112 FIBER ROLLS 12IN Sta 3789+00 to Sta 3794+00 | 720 | LF |
| 261 | 0113 REMOVE FIBER ROLLS 12IN Sta 3789+00 to Sta 3794+00 | 720 | LF |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|--|-----------------------|----------------------------|
| 708 | 1533 REMOVAL INLET PROTECTION-FIBER ROLL 12IN 3789+32.0 42.0' Rt 3789+34.0 29.3' Lt 3789+48.1 32.9' Lt | 1 1 1 | EA EA EA |
| 708 | 1540 INLET PROTECTION-SPECIAL 3789+35.6 43.6' Lt 3789+64.0 21.0' Lt 3789+64.0 21.0' Rt 3793+64.0 21.0' Lt 3793+64.0 21.0' Rt | 1 1 1 1 1 | EA EA EA EA EA |
| 708 | 1541 REMOVE INLET PROTECTION-SPECIAL 3789+35.6 43.6' Lt 3789+64.0 21.0' Lt 3789+64.0 21.0' Rt 3793+64.0 21.0' Lt 3793+64.0 21.0' Rt | 1 1 1 1 1 | EA EA EA EA EA |

| LEGEND | |
|--------|-----------------------------------|
| | Fiber Rolls 12IN |
| | Silt Fence |
| | Temporary Cover Crop & Hydromulch |
| | Flow Arrow |
| | Inlet Protection-Special |
| | Inlet Protection-Fiber Roll 12IN |

| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

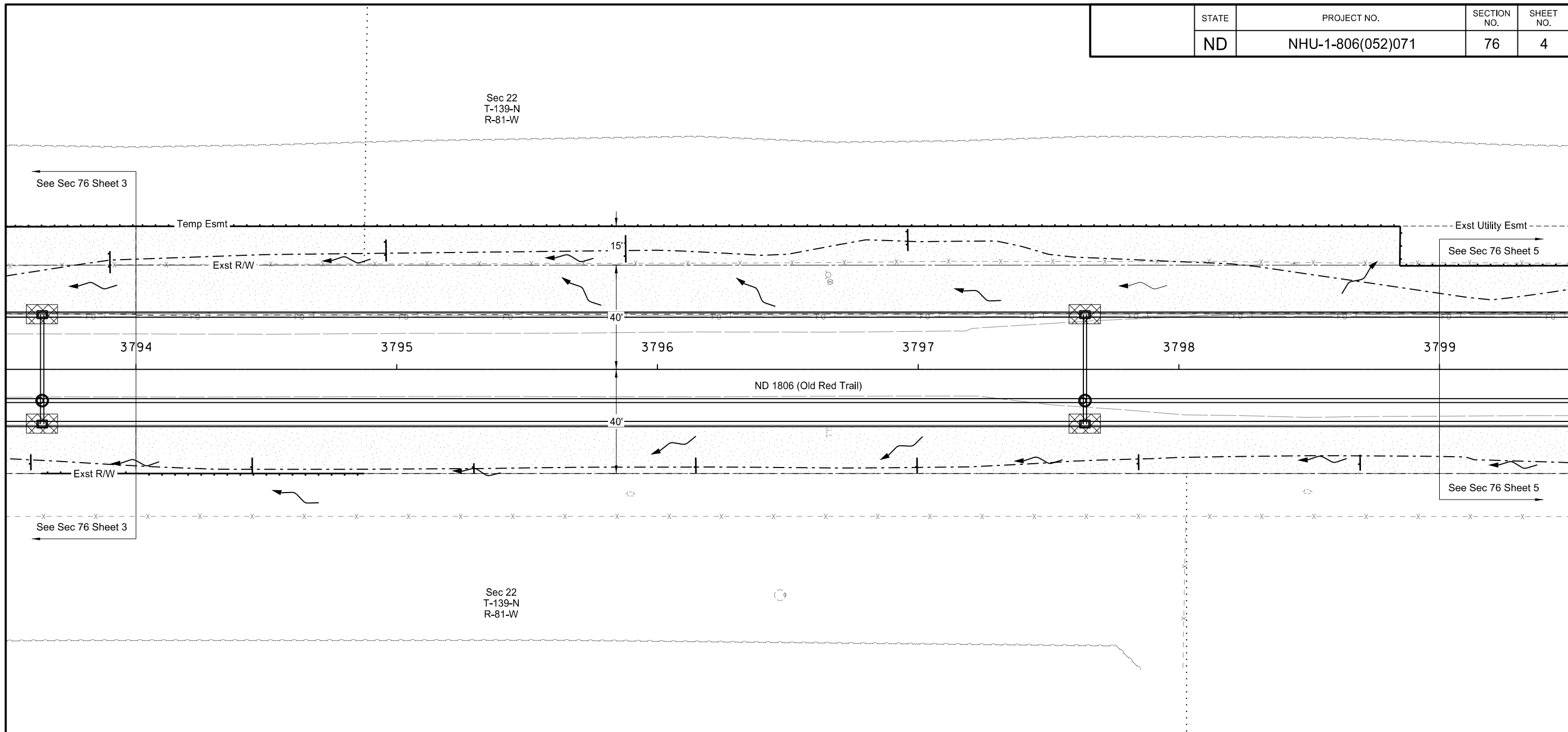
| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
| 3:1 | 45' |
| 4:1 or flatter | 60' |



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ND 1806
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 Sta 3789+00 to 3794+00

| | | | |
|-------|-------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 76 | 4 |

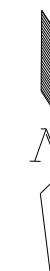


| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|--------|----------|
| 251 2000 | TEMPORARY COVER CROP Sta 3794+00 to Sta 3799+00 | 0.589 | ACRE |
| 253 0201 | HYDRAULIC MULCH Sta 3794+00 to Sta 3799+00 | 0.589 | ACRE |
| 261 0112 | FIBER ROLLS 12IN Sta 3794+00 to Sta 3799+00 | 650 | LF |
| 261 0113 | REMOVE FIBER ROLLS 12IN Sta 3794+00 to Sta 3799+00 | 650 | LF |
| 708 1540 | INLET PROTECTION-SPECIAL 3797+64.0 21.0' Lt 3797+64.0 21.0' Rt | 1 1 | EA EA |
| 708 1541 | REMOVE INLET PROTECTION-SPECIAL 3797+64.0 21.0' Lt 3797+64.0 21.0' Rt | 1 1 | EA EA |

| LEGEND | |
|--------|-----------------------------------|
| | Fiber Rolls 12IN |
| | Silt Fence |
| | Temporary Cover Crop & Hydromulch |
| | Flow Arrow |
| | Inlet Protection-Special |
| | Inlet Protection-Fiber Roll 12IN |

| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

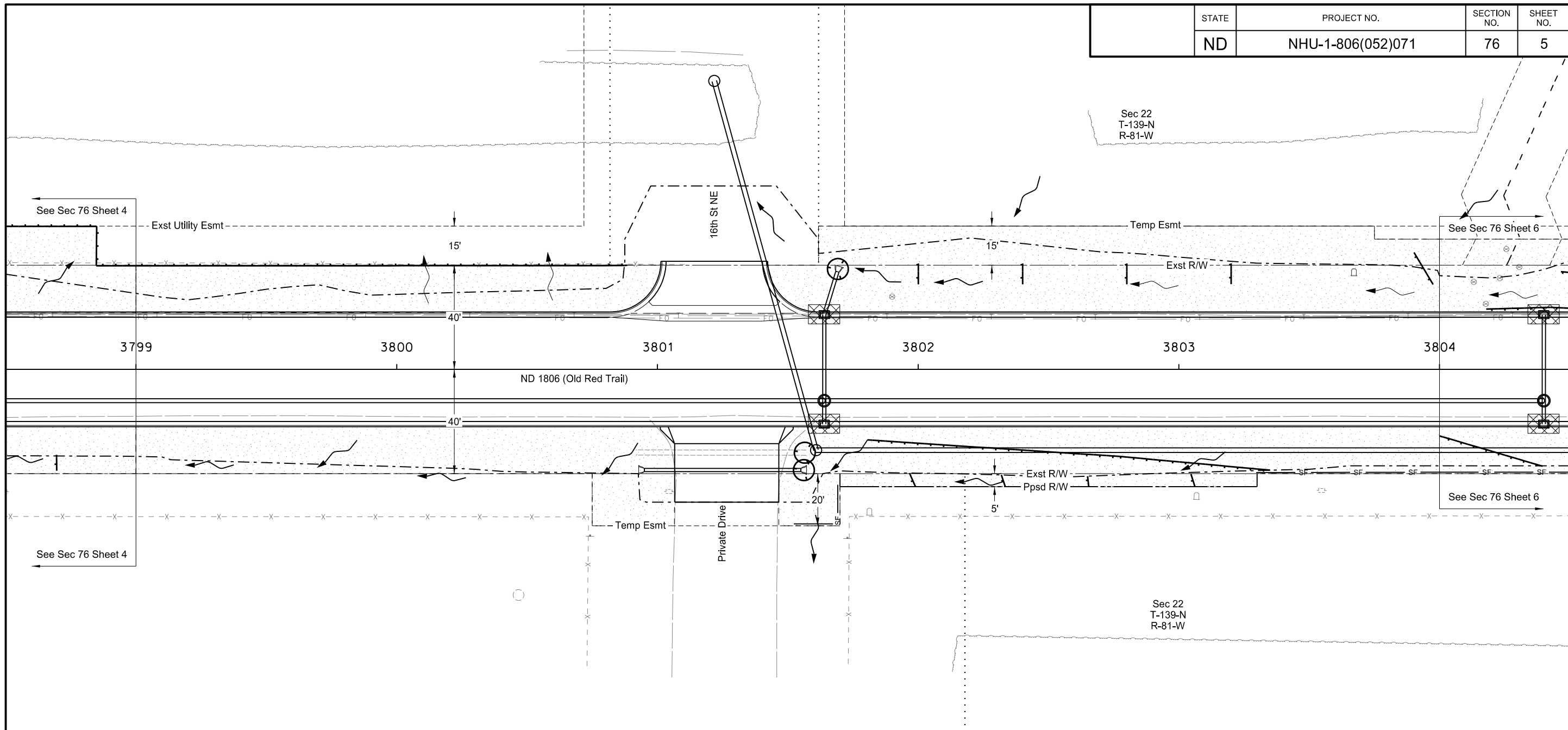
| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
| 3:1 | 45' |
| 4:1 or flatter | 60' |



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ND 1806
 Temporary Sediment & Erosion Control
 ND 1806
 Sta 3794+00 to 3799+00

| | | | |
|-------|-------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 76 | 5 |



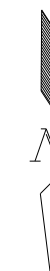
| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------|------|
| 251 2000 | TEMPORARY COVER CROP Sta 3799+00 to Sta 3804+00 | 0.498 | ACRE |
| 253 0201 | HYDRAULIC MULCH Sta 3799+00 to Sta 3804+00 | 0.498 | ACRE |
| 260 0100 | SILT FENCE UNSUPPORTED Sta 3799+00 to Sta 3804+00 | 70 | LF |
| 260 0101 | REMOVE SILT FENCE UNSUPPORTED Sta 3799+00 to Sta 3804+00 | 70 | LF |
| 261 0112 | FIBER ROLLS 12IN Sta 3799+00 to Sta 3804+00 | 420 | LF |
| 261 0113 | REMOVE FIBER ROLLS 12IN Sta 3799+00 to Sta 3804+00 | 420 | LF |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|--|-------------|----------------|
| 708 1531 | INLET PROTECTION-FIBER ROLL 12IN 3801+55.0 38.6' Rt 3801+57.1 32.0' Rt 3801+69.0 37.5' Lt | 1 1 1 | EA EA EA |
| 708 1533 | REMOVAL INLET PROTECTION-FIBER ROLL 12IN 3801+55.0 38.6' Rt 3801+57.1 32.0' Rt 3801+69.0 37.5' Lt | 1 1 1 | EA EA EA |
| 708 1540 | INLET PROTECTION-SPECIAL 3801+64.0 21.0' Lt 3801+64.0 21.0' Rt | 1 1 | EA EA |
| 708 1541 | REMOVE INLET PROTECTION-SPECIAL 3801+64.0 21.0' Lt 3801+64.0 21.0' Rt | 1 1 | EA EA |

| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

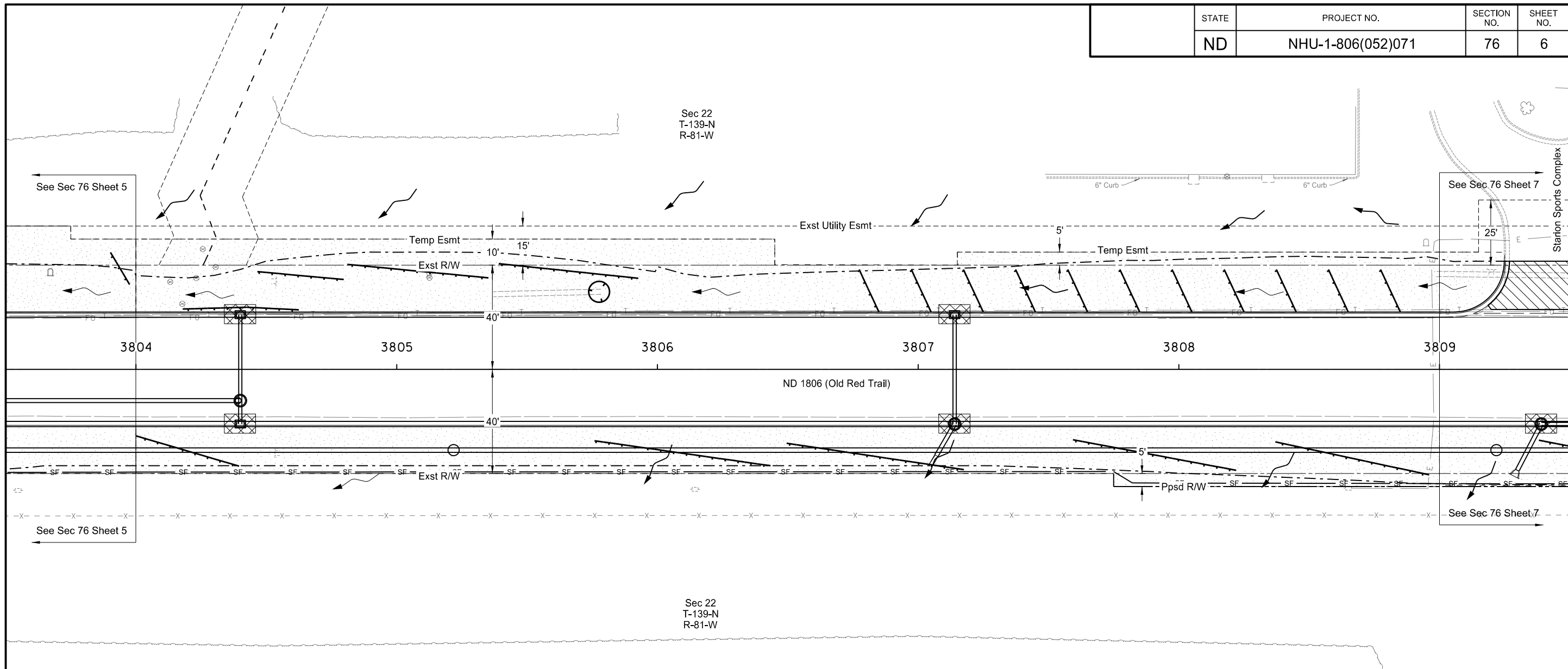
| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
| 3:1 | 45' |
| 4:1 or flatter | 60' |

| LEGEND | |
|--------|-----------------------------------|
| | Fiber Rolls 12IN |
| | Silt Fence |
| | Temporary Cover Crop & Hydromulch |
| | Flow Arrow |
| | Inlet Protection-Special |
| | Inlet Protection-Fiber Roll 12IN |



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ND 1806
 Temporary Sediment & Erosion Control
 ND 1806
 Sta 3799+00 to 3804+00



| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------|------|
| 251 2000 | TEMPORARY COVER CROP Sta 3804+00 to Sta 3809+00 | 0.505 | ACRE |
| 253 0201 | HYDRAULIC MULCH Sta 3804+00 to Sta 3809+00 | 0.505 | ACRE |
| 260 0100 | SILT FENCE UNSUPPORTED Sta 3804+00 to Sta 3809+00 | 500 | LF |
| 260 0101 | REMOVE SILT FENCE UNSUPPORTED Sta 3804+00 to Sta 3809+00 | 500 | LF |
| 261 0112 | FIBER ROLLS 12IN Sta 3804+00 to Sta 3809+00 | 710 | LF |
| 261 0113 | REMOVE FIBER ROLLS 12IN Sta 3804+00 to Sta 3809+00 | 710 | LF |

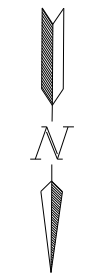
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|-----------|---|------------------|----------------------|
| 708 1531 | INLET PROTECTION-FIBER ROLL 12IN 3805+78.0 29.4' Lt | 1 | EA |
| 708 1533 | REMOVAL INLET PROTECTION-FIBER ROLL 12IN 3805+78.0 29.4' Lt | 1 | EA |
| 708 1540 | INLET PROTECTION-SPECIAL 3804+40.0 21.0' Lt 3804+40.0 21.0' Rt 3807+14.0 21.0' Lt 3807+14.0 21.0' Rt | 1 1 1 1 | EA EA EA EA |
| 708 1541 | REMOVE INLET PROTECTION-SPECIAL 3804+40.0 21.0' Lt 3804+40.0 21.0' Rt 3807+14.0 21.0' Lt 3807+14.0 21.0' Rt | 1 1 1 1 | EA EA EA EA |

| Ditch Grade | Spacing (ft) |
|-------------|--------------|
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

| Slope | Spacing (ft) |
|----------------|--------------|
| 3:1 | 45' |
| 4:1 or flatter | 60' |

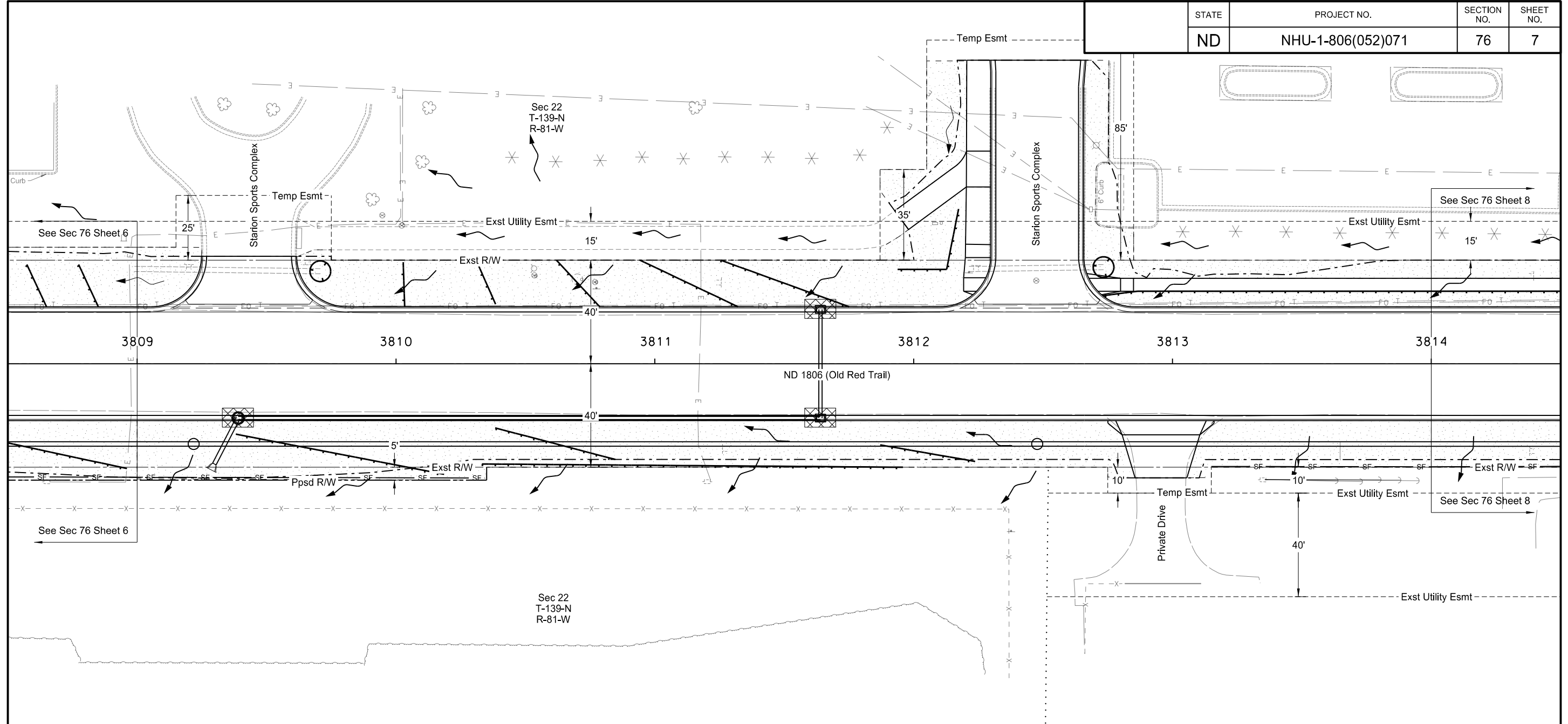
LEGEND

- Fiber Rolls 12IN
- Silt Fence
- Temporary Cover Crop & Hydromulch
- Flow Arrow
- Inlet Protection-Special
- Inlet Protection-Fiber Roll 12IN



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ND 1806
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 ND 1806
 Sta 3804+00 to 3809+00



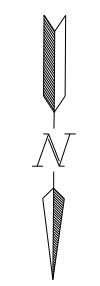
| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------|------|
| 251 2000 | TEMPORARY COVER CROP Sta 3809+00 to Sta 3814+00 | 0.408 | ACRE |
| 253 0201 | HYDRAULIC MULCH Sta 3809+00 to Sta 3814+00 | 0.408 | ACRE |
| 260 0100 | SILT FENCE UNSUPPORTED Sta 3809+00 to Sta 3814+00 | 215 | LF |
| 260 0101 | REMOVE SILT FENCE UNSUPPORTED Sta 3809+00 to Sta 3814+00 | 215 | LF |
| 261 0112 | FIBER ROLLS 12IN Sta 3809+00 to Sta 3814+00 | 660 | LF |
| 261 0113 | REMOVE FIBER ROLLS 12IN Sta 3809+00 to Sta 3814+00 | 660 | LF |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------------|----------------|
| 708 1531 | INLET PROTECTION-FIBER ROLL 12IN 3809+71.0 36.1' Lt 3812+73.0 37.1' Lt | 1 1 | EA EA |
| 708 1533 | REMOVAL INLET PROTECTION-FIBER ROLL 12IN 3809+71.0 36.1' Lt 3812+73.0 37.1' Lt | 1 1 | EA EA |
| 708 1540 | INLET PROTECTION-SPECIAL 3809+39.0 21.0' Rt 3811+64.0 21.0' Lt 3811+64.0 21.0' Rt | 1 1 1 | EA EA EA |
| 708 1541 | REMOVE INLET PROTECTION-SPECIAL 3809+39.0 21.0' Rt 3811+64.0 21.0' Lt 3811+64.0 21.0' Rt | 1 1 1 | EA EA EA |

| LEGEND | |
|--------|-----------------------------------|
| | Fiber Rolls 12IN |
| | Silt Fence |
| | Temporary Cover Crop & Hydromulch |
| | Flow Arrow |
| | Inlet Protection-Special |
| | Inlet Protection-Fiber Roll 12IN |

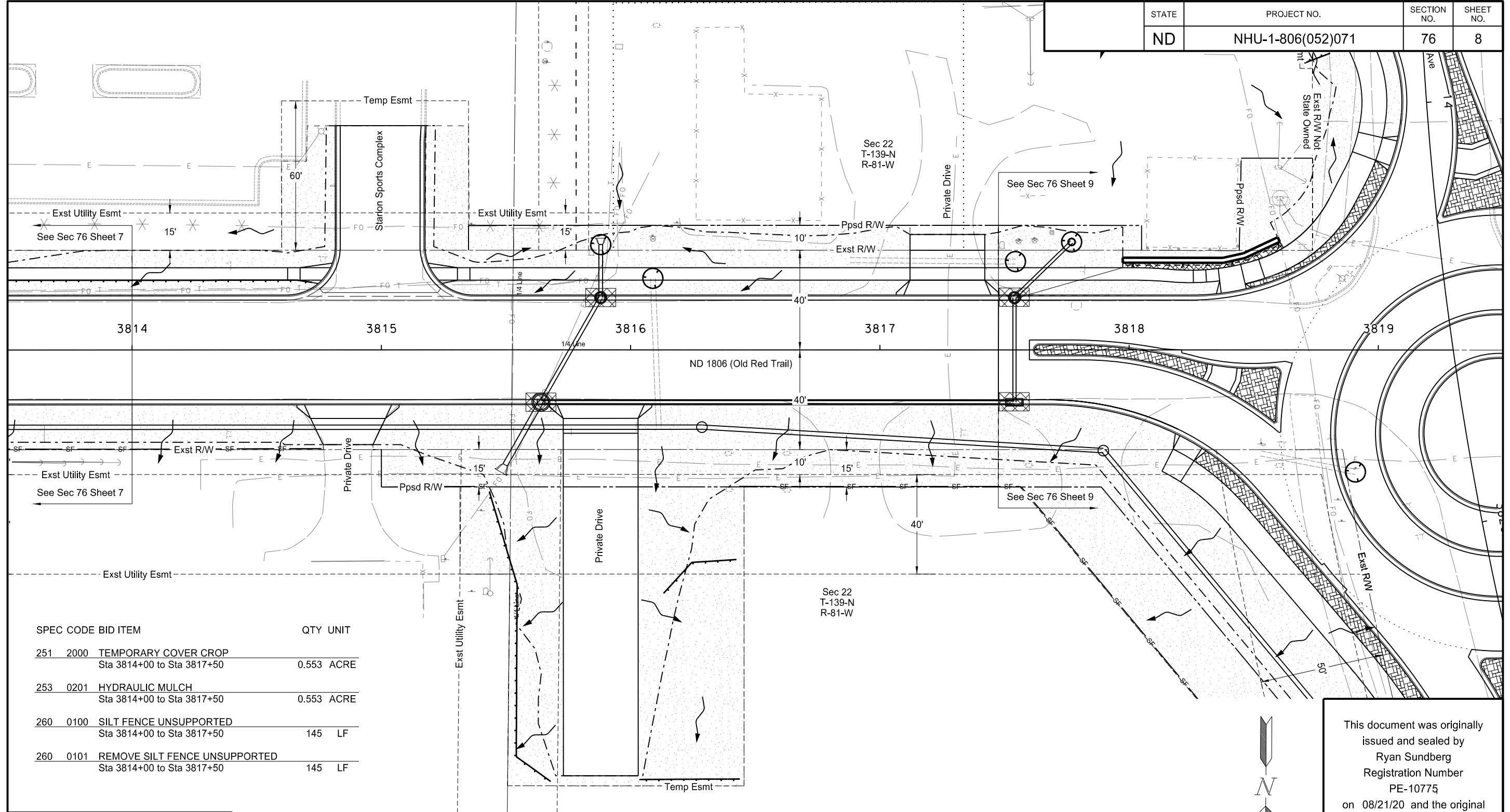
| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
| 3:1 | 45' |
| 4:1 or flatter | 60' |



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ND 1806
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 ND 1806
 Sta 3809+00 to 3814+00



| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------|------|
| 251 2000 | TEMPORARY COVER CROP Sta 3814+00 to Sta 3817+50 | 0.553 | ACRE |
| 253 0201 | HYDRAULIC MULCH Sta 3814+00 to Sta 3817+50 | 0.553 | ACRE |
| 260 0100 | SILT FENCE UNSUPPORTED Sta 3814+00 to Sta 3817+50 | 145 | LF |
| 260 0101 | REMOVE SILT FENCE UNSUPPORTED Sta 3814+00 to Sta 3817+50 | 145 | LF |

| LEGEND | |
|--------|-----------------------------------|
| | Fiber Rolls 12IN |
| | Silt Fence |
| | Temporary Cover Crop & Hydromulch |
| | Flow Arrow |
| | Inlet Protection-Special |
| | Inlet Protection-Fiber Roll 12IN |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|--|--------------|------|
| 261 0112 | FIBER ROLLS 12IN Sta 3814+00 to Sta 3817+50 | 274 | LF |
| 261 0113 | REMOVE FIBER ROLLS 12IN Sta 3814+00 to Sta 3817+50 | 274 | LF |
| 708 1531 | INLET PROTECTION-FIBER ROLL 12IN 3815+97.0 47.1' Lt 3816+09.0 29.1' Rt | 1 EA 1 EA | |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|--|--------------|------|
| 708 1533 | REMOVAL INLET PROTECTION-FIBER ROLL 12IN 3815+88.0 42.2' Lt 3816+08.9 28.7' Lt | 1 EA 1 EA | |
| 708 1540 | INLET PROTECTION-SPECIAL 3816+11.0 21.0' Lt 3816+11.0 21.0' Rt | 1 EA 1 EA | |
| 708 1541 | REMOVE INLET PROTECTION-SPECIAL 3816+11.0 21.0' Lt 3816+11.0 21.0' Rt | 1 EA 1 EA | |

| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
| 3:1 | 45' |
| 4:1 or flatter | 60' |

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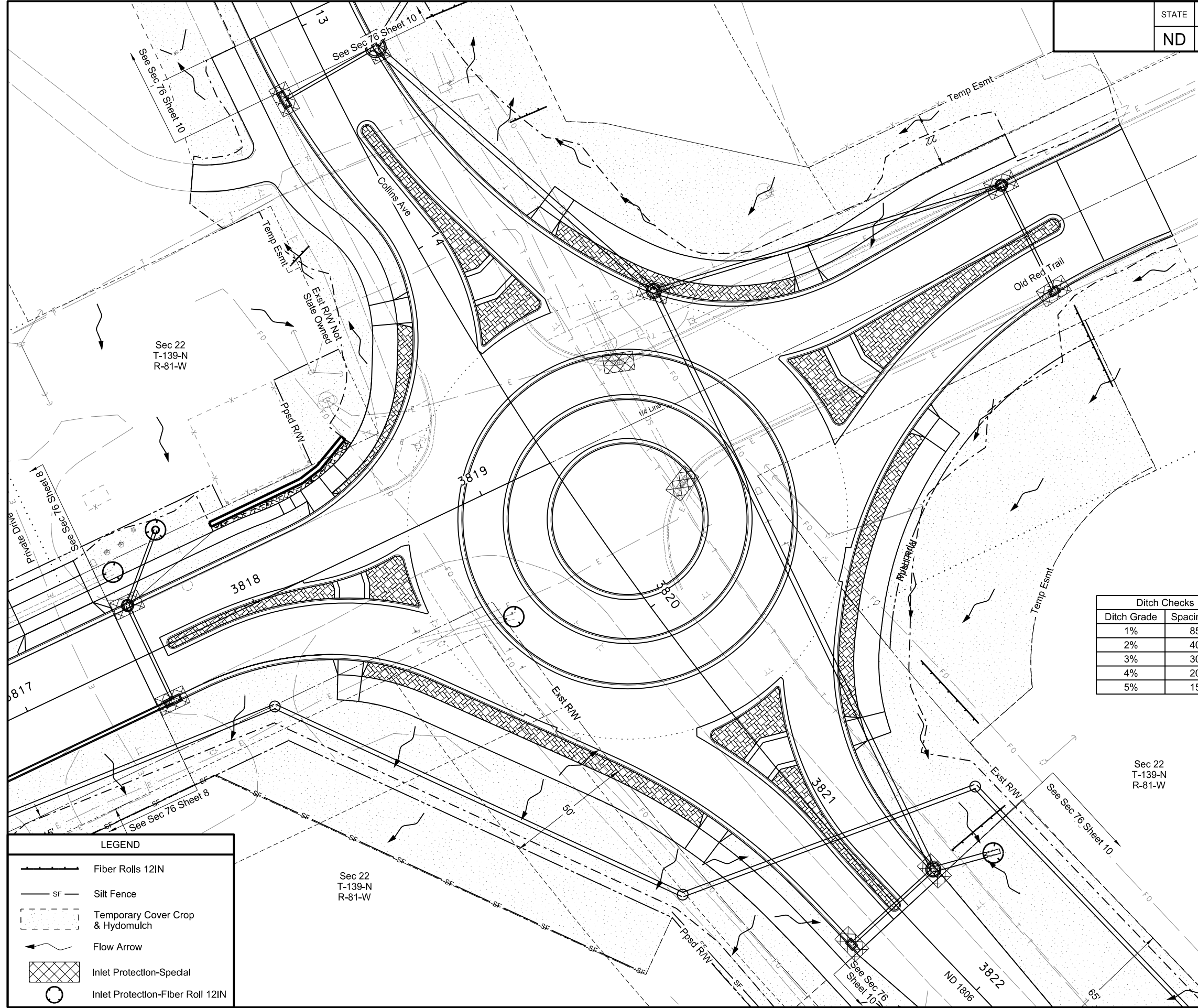
ND 1806
 Temporary Sediment & Erosion Control
 ND 1806
 Sta 3814+00 to 3817+47.57

| | | | |
|-------|-------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 76 | 9 |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|--|---|--|
| 251 2000 | TEMPORARY COVER CROP Sta 3817+50 to Sta 3821+57 | 1.056 | ACRE |
| 253 0201 | HYDRAULIC MULCH Sta 3817+50 to Sta 3821+57 | 1.056 | ACRE |
| 260 0100 | SILT FENCE UNSUPPORTED Sta 3817+50 to Sta 3821+57 | 315 | LF |
| 260 0101 | REMOVE SILT FENCE UNSUPPORTED Sta 3817+50 to Sta 3821+57 | 315 | LF |
| 261 0112 | FIBER ROLLS 12IN Sta 3817+50 to Sta 3821+57 | 200 | LF |
| 261 0113 | REMOVE FIBER ROLLS 12IN Sta 3817+50 to Sta 3821+57 | 200 | LF |
| 708 1531 | INLET PROTECTION-FIBER ROLL 12IN 3817+54.2 35.5' Lt 3817+76.9 43.4' Lt 3819+71.0 46.5' Rt | 1 1 1 | EA EA EA |
| 708 1533 | REMOVAL INLET PROTECTION-FIBER ROLL 12IN 3817+54.2 35.5' Lt 3817+76.9 43.4' Lt 3819+71.0 46.5' Rt | 1 1 1 | EA EA EA |
| 708 1540 | INLET PROTECTION-SPECIAL 3817+54.0 21.0' Lt 3817+54.0 21.0' Rt 3818+96.5 176.0' Lt 3819+30.0 48.1' Lt 3819+30.0 80.0' Lt 3819+38.5 210.6 Lt 3819+67.0 39.0' Lt 3819+93.0 203.6 Lt 3821+53.0 20.5' Lt 3821+53.0 23.5' Rt | 1 1 1 1 1 1 1 1 1 1 1 | EA EA EA EA EA EA EA EA EA EA |
| 708 1541 | REMOVE INLET PROTECTION-SPECIAL 3817+54.0 21.0' Lt 3817+54.0 21.0' Rt 3818+96.5 176.0' Lt 3819+30.0 48.1' Lt 3819+30.0 80.0' Lt 3819+38.5 210.6 Lt 3819+67.0 39.0' Lt 3819+93.0 203.6 Lt 3821+53.0 20.5' Lt 3821+53.0 23.5' Rt | 1 1 1 1 1 1 1 1 1 1 | EA EA EA EA EA EA EA EA EA EA |

| Ditch Grade | Spacing (ft) |
|-------------|--------------|
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

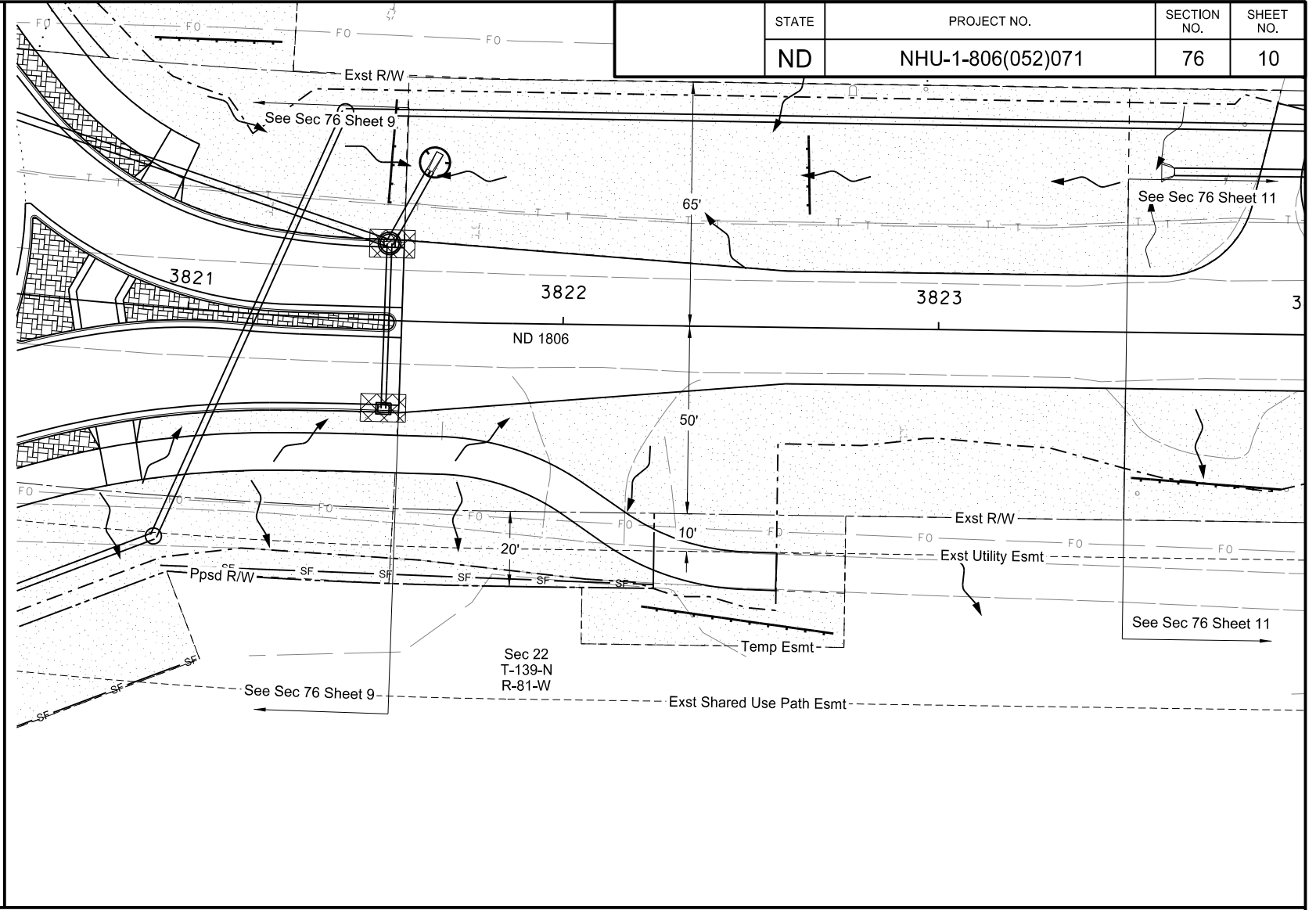
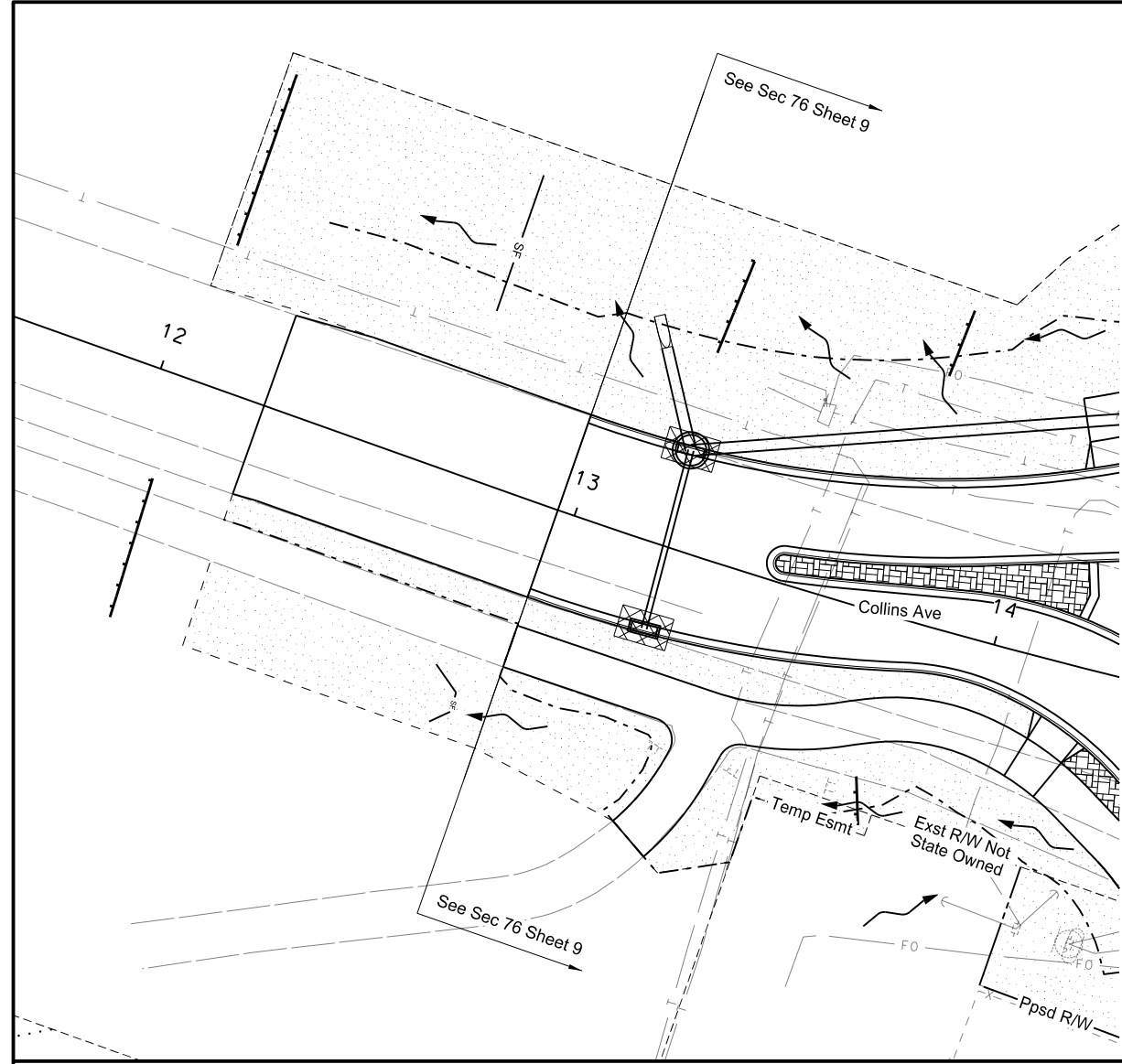
| Slope | Spacing (ft) |
|----------------|--------------|
| 3:1 | 45' |
| 4:1 or flatter | 60' |



| | |
|--|-----------------------------------|
| | Fiber Rolls 12IN |
| | Silt Fence |
| | Temporary Cover Crop & Hydromulch |
| | Flow Arrow |
| | Inlet Protection-Special |
| | Inlet Protection-Fiber Roll 12IN |

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ND 1806
 Temporary Sediment & Erosion Control
 ND 1806
 Sta 3817+47.57 to 3821+57.00



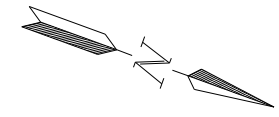
| LEGEND | |
|--------|-----------------------------------|
| | Fiber Rolls 12IN |
| | Silt Fence |
| | Temporary Cover Crop & Hydromulch |
| | Flow Arrow |
| | Inlet Protection-Special |
| | Inlet Protection-Fiber Roll 12IN |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|-------------------------------|-------|------|
| 251 2000 | TEMPORARY COVER CROP | | |
| | Sta 12+04 to Sta 12+96 | 0.159 | ACRE |
| | Sta 3821+57 to Sta 3823+50 | 0.408 | ACRE |
| 253 0201 | HYDRAULIC MULCH | | |
| | Sta 12+04 to Sta 12+96 | 0.159 | ACRE |
| | Sta 3821+57 to Sta 3823+50 | 0.408 | ACRE |
| 260 0100 | SILT FENCE UNSUPPORTED | | |
| | Sta 12+04 to Sta 12+96 | 60 | LF |
| | Sta 3821+57 to Sta 3823+50 | 71 | LF |
| 260 0101 | REMOVE SILT FENCE UNSUPPORTED | | |
| | Sta 12+04 to Sta 12+96 | 60 | LF |
| | Sta 3821+57 to Sta 3823+50 | 71 | LF |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-----|------|
| 261 0112 | FIBER ROLLS 12IN | | |
| | Sta 12+04 to Sta 12+96 | 70 | LF |
| | Sta 3821+57 to Sta 3823+50 | 73 | LF |
| 261 0113 | REMOVE FIBER ROLLS 12IN | | |
| | Sta 12+04 to Sta 12+96 | 70 | LF |
| | Sta 3821+57 to Sta 3823+50 | 73 | LF |
| 708 1531 | INLET PROTECTION-FIBER ROLL 12IN | | |
| | Sta 3821+63.6 40.5' Lt | 1 | EA |
| 708 1532 | REMOVAL INLET PROTECTION-FIBER ROLL 6IN | | |
| | Sta 3821+63.6 40.5' Lt | 1 | EA |

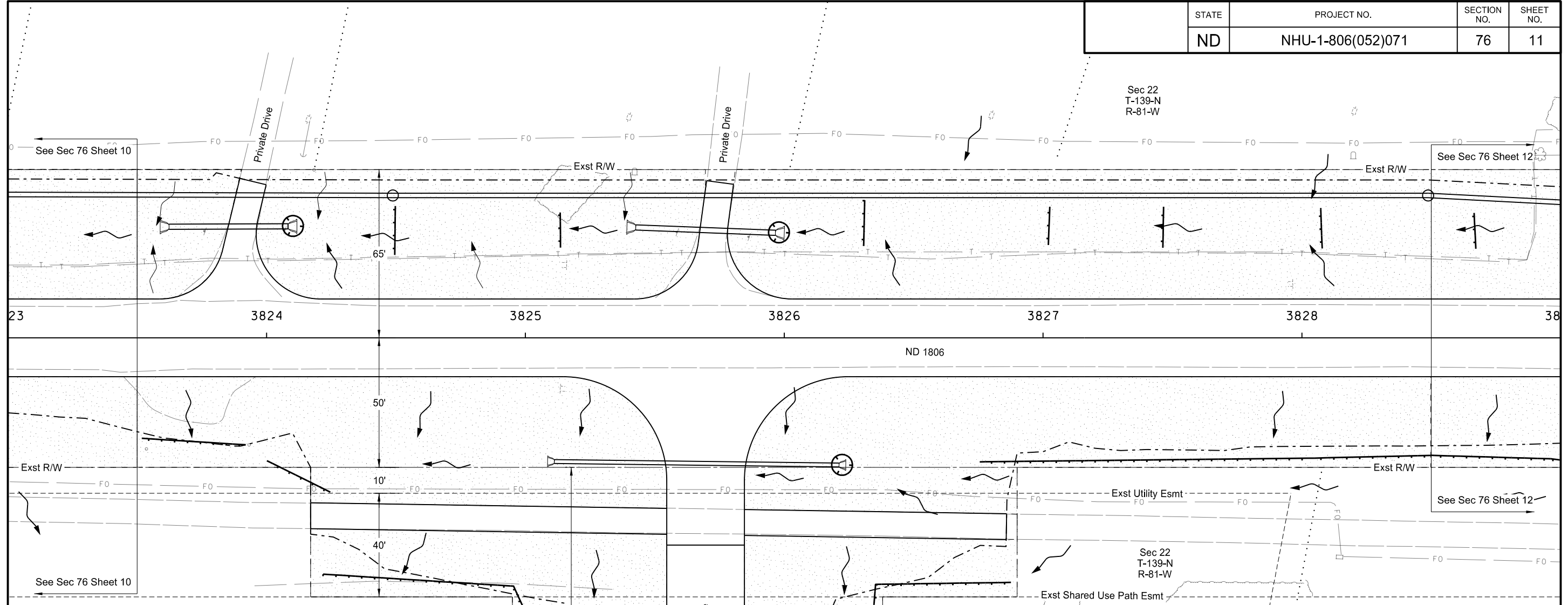
| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
| 3:1 | 45' |
| 4:1 or flatter | 60' |



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ND 1806
 Temporary Sediment & Erosion Control
 ND 1806
 Sta 3821+57 to 3823+50
 Sta 12+04.81 to 13+19.26 (PRRBCOL)



Sec 22
T-139-N
R-81-W

Sec 22
T-139-N
R-81-W

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|--|-------|------|
| 251 | 2000 TEMPORARY COVER CROP Sta 3823+50 to Sta 3828+50 | 1.536 | ACRE |
| 253 | 0201 HYDRAULIC MULCH Sta 3823+50 to Sta 3828+50 | 1.536 | ACRE |
| 261 | 0112 FIBER ROLLS 12IN Sta 3823+50 to Sta 3828+50 | 826 | LF |
| 261 | 0113 REMOVE FIBER ROLLS 12IN Sta 3823+50 to Sta 3828+50 | 826 | LF |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------------|----------------|
| 708 | 1531 INLET PROTECTION-FIBER ROLL 12IN Sta 3824+07.0 42.9' Lt Sta 3825+96.6 40.6' Lt Sta 3826+21.2 49.1' Rt | 1 1 1 | EA EA EA |
| 708 | 1533 REMOVAL INLET PROTECTION-FIBER ROLL 12IN Sta 3824+07.0 42.9' Lt Sta 3825+96.6 40.6' Lt Sta 3826+21.2 49.1' Rt | 1 1 1 | EA EA EA |

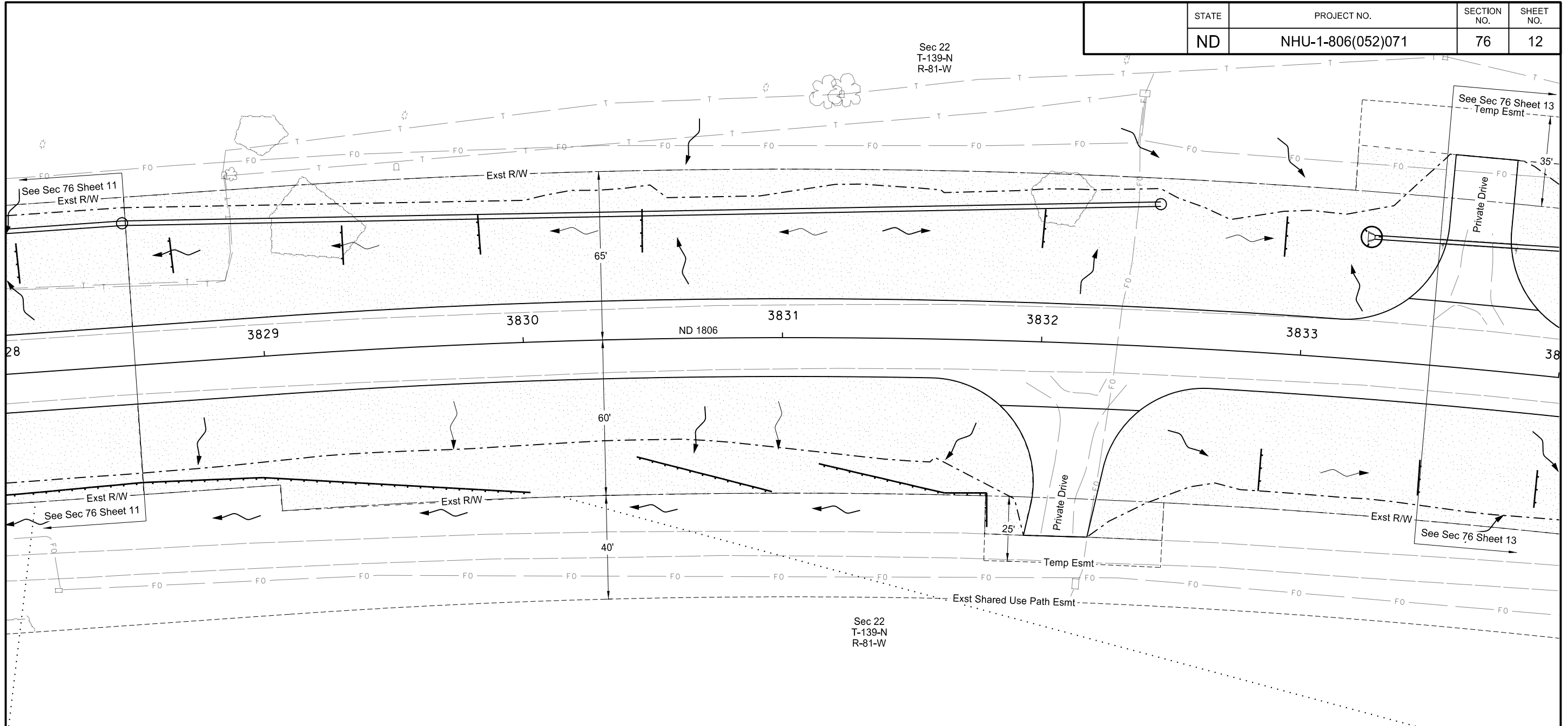
| LEGEND | |
|--------|-----------------------------------|
| | Fiber Rolls 12IN |
| | Silt Fence |
| | Temporary Cover Crop & Hydromulch |
| | Flow Arrow |
| | Inlet Protection-Special |
| | Inlet Protection-Fiber Roll 12IN |

| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
| 3:1 | 45' |
| 4:1 or flatter | 60' |

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ND 1806
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 ND 1806
 Sta 3823+50 to 3828+50

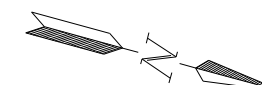


| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|--|-------|------|
| 251 2000 | TEMPORARY COVER CROP Sta 3828+50 to Sta 3833+55 | 1.071 | ACRE |
| 253 0201 | HYDRAULIC MULCH Sta 3828+50 to Sta 3833+55 | 1.071 | ACRE |
| 261 0112 | FIBER ROLLS 12IN Sta 3828+50 to Sta 3833+55 | 390 | LF |
| 261 0113 | REMOVE FIBER ROLLS 12IN Sta 3828+50 to Sta 3833+55 | 390 | LF |
| 708 1531 | INLET PROTECTION-FIBER ROLL 12IN 3833+27.0 47.7' Lt | 1 | EA |
| 708 1533 | REMOVAL INLET PROTECTION-FIBER ROLL 12IN 3833+27.0 47.7' Lt | 1 | EA |

| LEGEND | |
|--------|-----------------------------------|
| | Fiber Rolls 12IN |
| | Silt Fence |
| | Temporary Cover Crop & Hydromulch |
| | Flow Arrow |
| | Inlet Protection-Special |
| | Inlet Protection-Fiber Roll 12IN |

| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

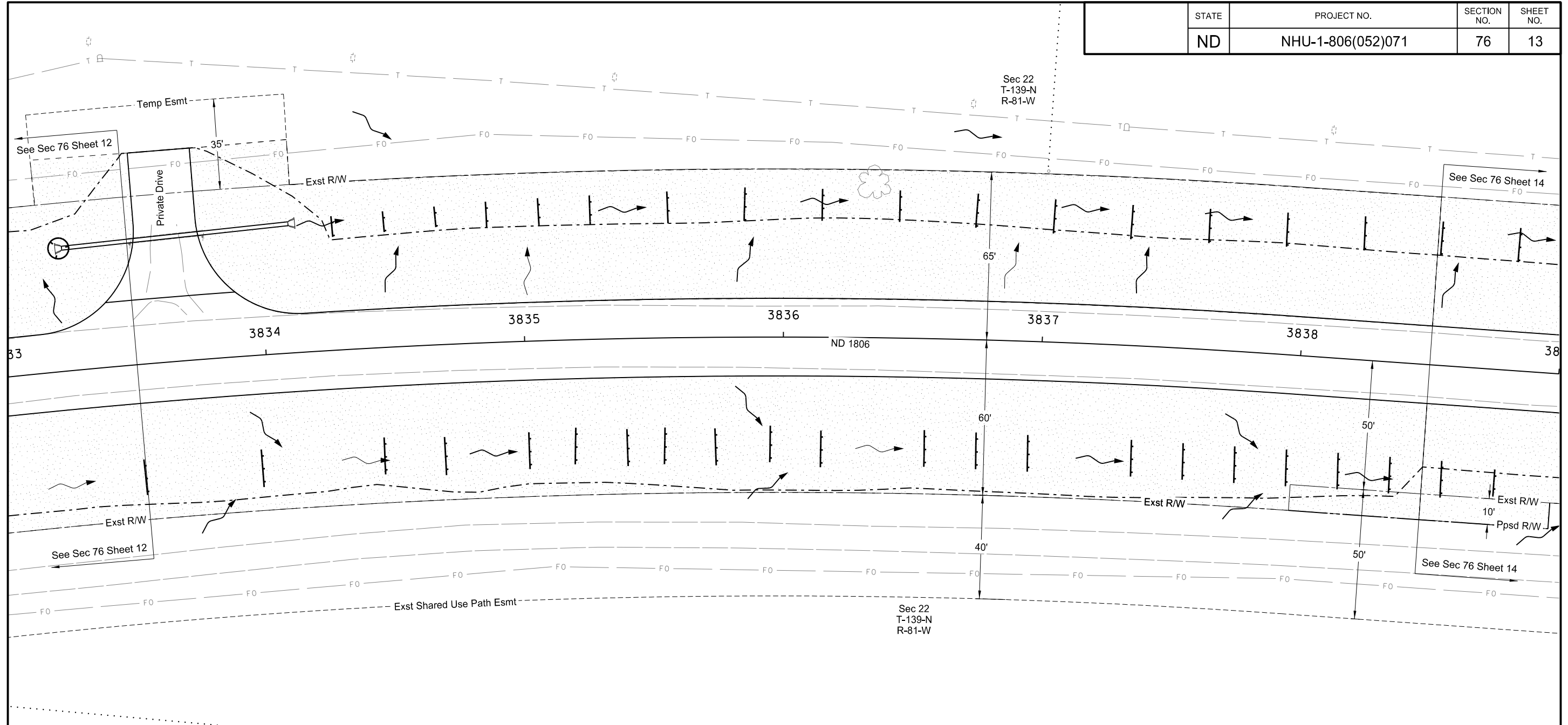
| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
| 3:1 | 45' |
| 4:1 or flatter | 60' |



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ND 1806
 Temporary Sediment & Erosion Control
 ND 1806
 Sta 3828+50 to 3833+50

| | | | |
|-------|-------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 76 | 13 |

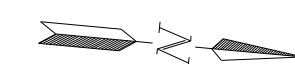


| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------|------|
| 251 2000 | TEMPORARY COVER CROP Sta 3833+55 to Sta 3838+50 | 1.033 | ACRE |
| 253 0201 | HYDRAULIC MULCH Sta 3833+55 to Sta 3838+50 | 1.033 | ACRE |
| 261 0112 | FIBER ROLLS 12IN Sta 3833+55 to Sta 3838+50 | 460 | LF |
| 261 0113 | REMOVE FIBER ROLLS 12IN Sta 3833+55 to Sta 3838+50 | 460 | LF |

| LEGEND | |
|--------|-----------------------------------|
| | Fiber Rolls 12IN |
| | Silt Fence |
| | Temporary Cover Crop & Hydromulch |
| | Flow Arrow |
| | Inlet Protection-Special |
| | Inlet Protection-Fiber Roll 12IN |

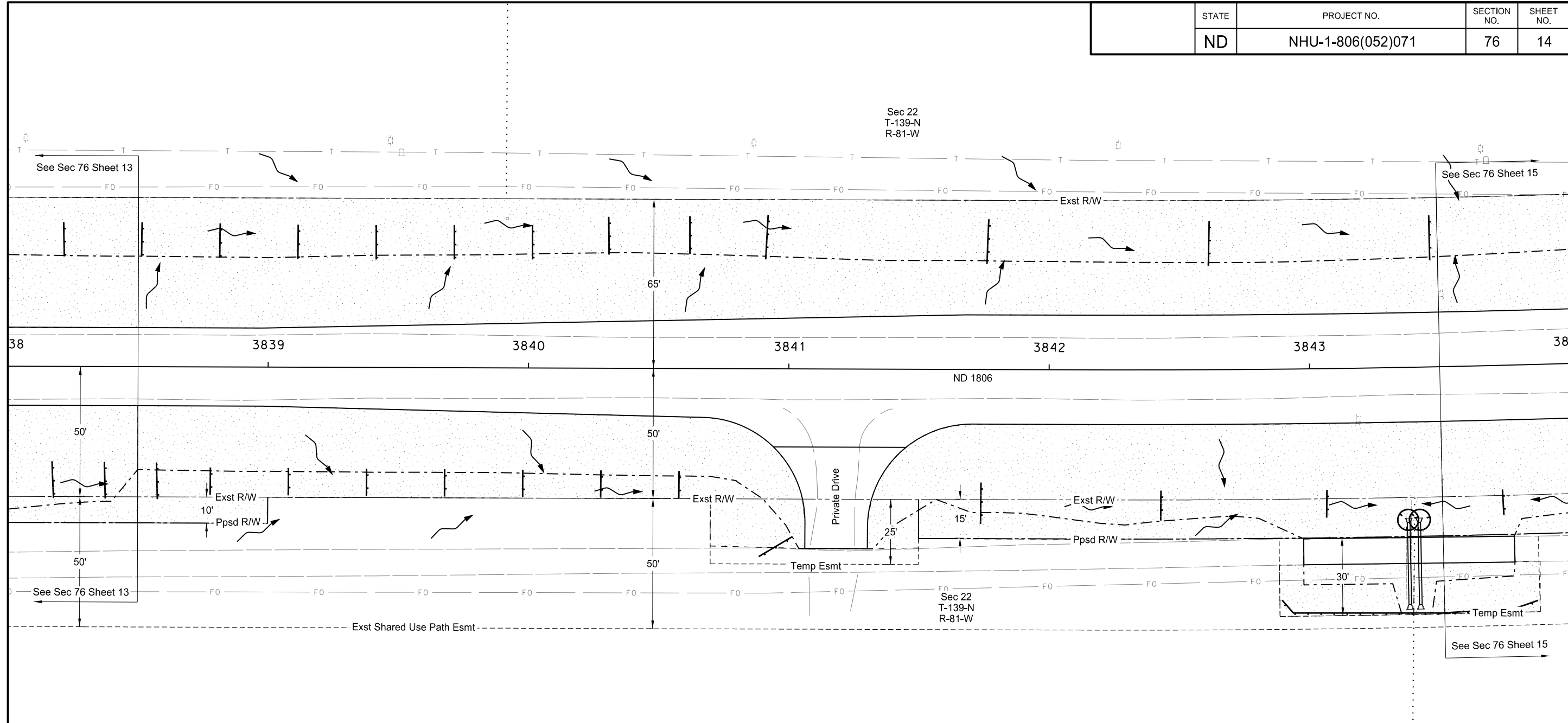
| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
| 3:1 | 45' |
| 4:1 or flatter | 60' |



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ND 1806
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 ND 1806
 Sta 3833+50 to 3838+50

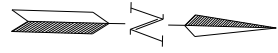


| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|--|-------|------|
| 251 2000 | TEMPORARY COVER CROP Sta 3838+50 to Sta 3843+50 | 0.989 | ACRE |
| 253 0201 | HYDRAULIC MULCH Sta 3838+50 to Sta 3843+50 | 0.989 | ACRE |
| 261 0112 | FIBER ROLLS 12IN Sta 3838+50 to Sta 3843+50 | 383 | LF |
| 261 0113 | REMOVE FIBER ROLLS 12IN Sta 3838+50 to Sta 3843+50 | 383 | LF |
| 708 1531 | INLET PROTECTION-FIBER ROLL 12IN 3843+37.0 61.5' Rt | 1 | EA |
| | 3843+41.0 61.5' Rt | 1 | EA |
| 708 1533 | REMOVAL INLET PROTECTION-FIBER ROLL 12IN 3843+37.0 61.5' Rt | 1 | EA |
| | 3843+41.0 61.5' Rt | 1 | EA |

| LEGEND | |
|--------|-----------------------------------|
| | Fiber Rolls 12IN |
| | Silt Fence |
| | Temporary Cover Crop & Hydromulch |
| | Flow Arrow |
| | Inlet Protection-Special |
| | Inlet Protection-Fiber Roll 12IN |

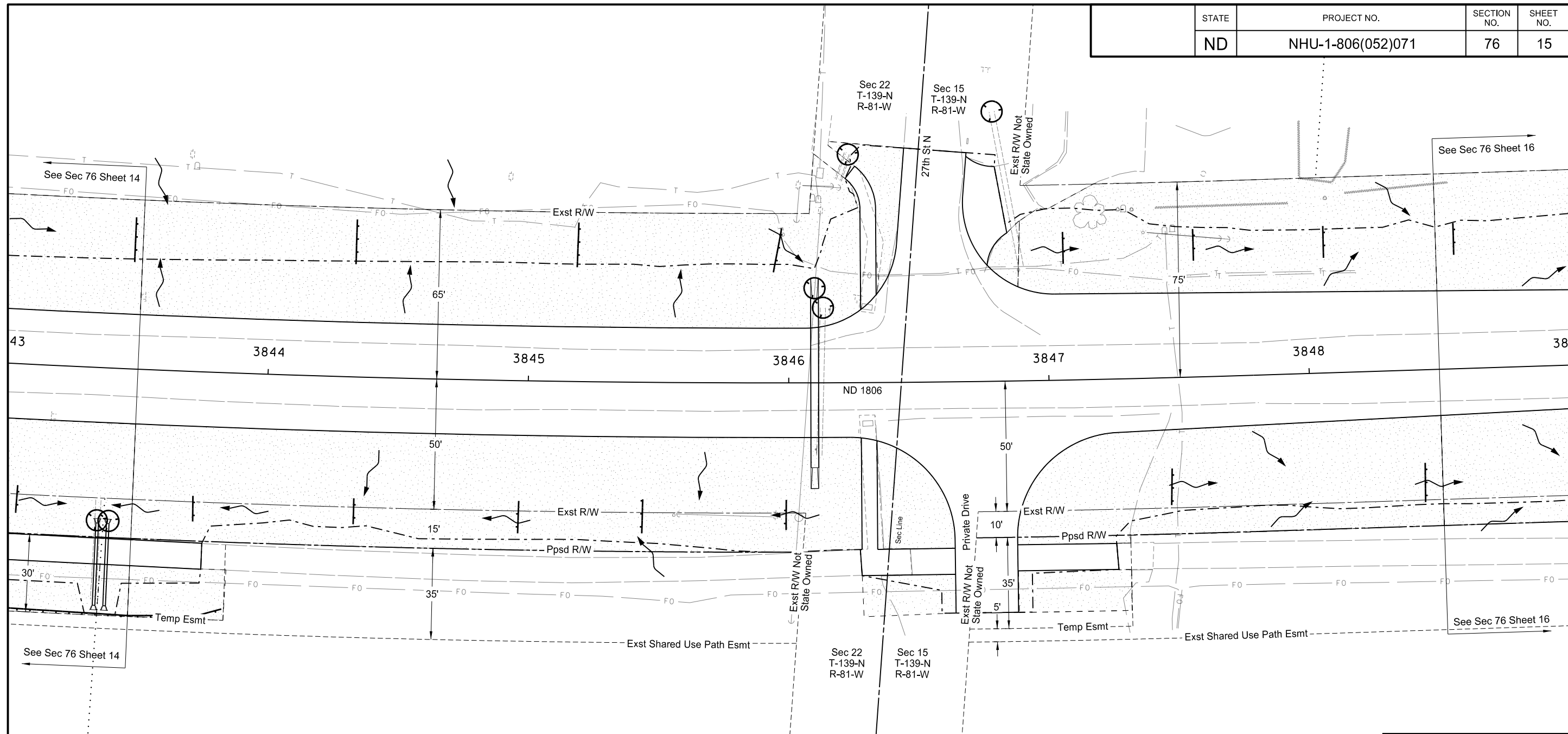
| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
| 3:1 | 45' |
| 4:1 or flatter | 60' |



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ND 1806
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 ND 1806
 Sta 3838+50 to 3843+50



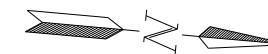
| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------|------|
| 251 2000 | TEMPORARY COVER CROP Sta 3843+50 to Sta 3848+50 | 0.953 | ACRE |
| 253 0201 | HYDRAULIC MULCH Sta 3843+50 to Sta 3848+50 | 0.953 | ACRE |
| 261 0112 | FIBER ROLLS 12IN Sta 3843+50 to Sta 3848+50 | 200 | LF |
| 261 0113 | REMOVE FIBER ROLLS 12IN Sta 3843+50 to Sta 3848+50 | 200 | LF |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|------------------|----------------------|
| 708 1531 | INLET PROTECTION-FIBER ROLL 12IN 3846+09.0 34.8' Lt 3846+13.0 27.8' Lt 3846+23.0 87.8' Lt 3846+80 103.7' Lt | 1 1 1 1 | EA EA EA EA |
| 708 1533 | REMOVAL INLET PROTECTION-FIBER ROLL 12IN 3846+09.0 34.8' Lt 3846+13.0 27.8' Lt 3846+23.0 87.8' Lt 3846+80 103.7' Lt | 1 1 1 1 | EA EA EA EA |

| LEGEND | |
|--------|-----------------------------------|
| | Fiber Rolls 12IN |
| | Silt Fence |
| | Temporary Cover Crop & Hydromulch |
| | Flow Arrow |
| | Inlet Protection-Special |
| | Inlet Protection-Fiber Roll 12IN |

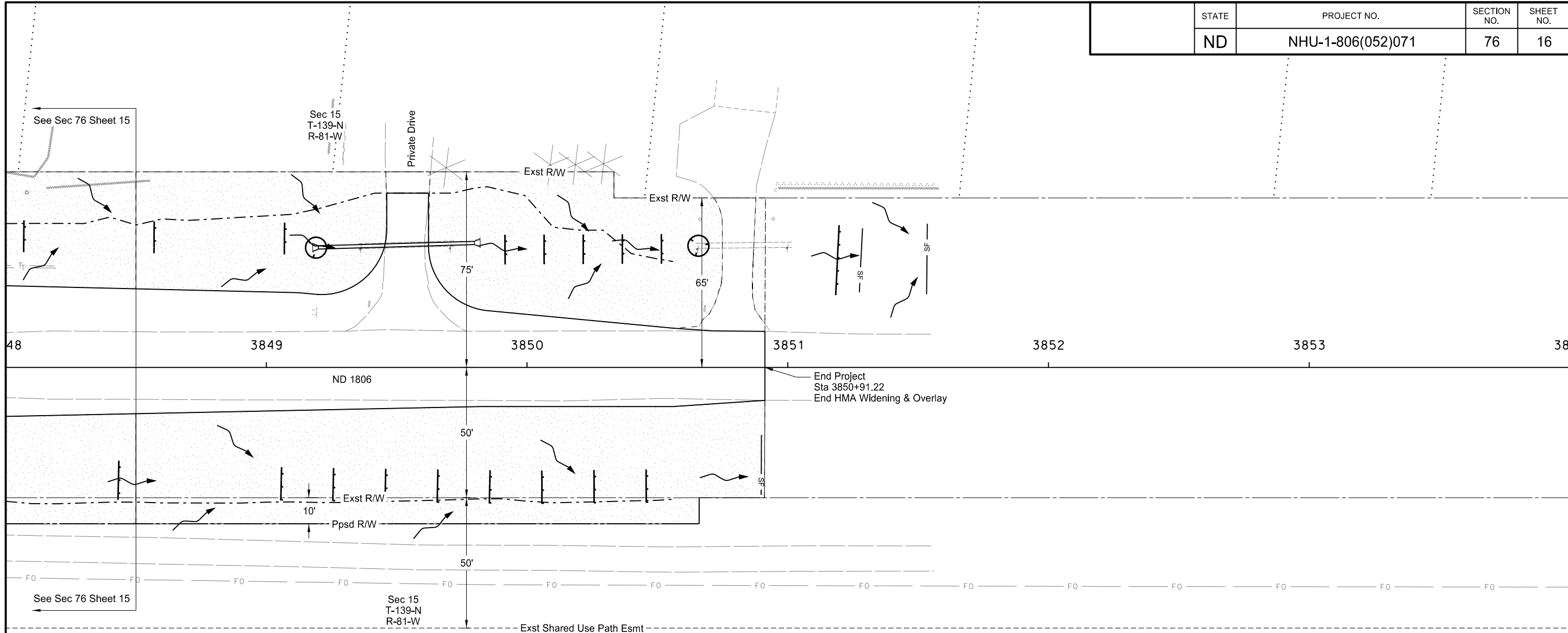
| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
| 3:1 | 45' |
| 4:1 or flatter | 60' |



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ND 1806
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 ND 1806
 Sta 3843+50 to 3848+50



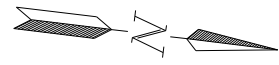
| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------|------|
| 251 2000 | TEMPORARY COVER CROP Sta 3848+50 to Sta 3850+91 | 0.475 | ACRE |
| 253 0201 | HYDRAULIC MULCH Sta 3848+50 to Sta 3850+91 | 0.475 | ACRE |
| 260 0100 | SILT FENCE UNSUPPORTED Sta 3848+50 to Sta 3850+91 | 75 | LF |
| 260 0101 | REMOVE SILT FENCE UNSUPPORTED Sta 3848+50 to Sta 3850+91 | 75 | LF |
| 261 0112 | FIBER ROLLS 12IN Sta 3848+50 to Sta 3850+91 | 210 | LF |
| 261 0113 | REMOVE FIBER ROLLS 12IN Sta 3848+50 to Sta 3850+91 | 210 | LF |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|--|--------|----------|
| 708 1531 | INLET PROTECTION-FIBER ROLL 12IN 3849+19.9 46.0' Lt 3850+66.0 46.4' Lt | 1 1 | EA EA |
| 708 1533 | REMOVAL INLET PROTECTION-FIBER ROLL 12IN 3849+19.9 46.0' Lt 3850+66.0 46.4' Lt | 1 1 | EA EA |

| LEGEND | |
|--------|-----------------------------------|
| | Fiber Rolls 12IN |
| | Silt Fence |
| | Temporary Cover Crop & Hydromulch |
| | Flow Arrow |
| | Inlet Protection-Special |
| | Inlet Protection-Fiber Roll 12IN |

| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

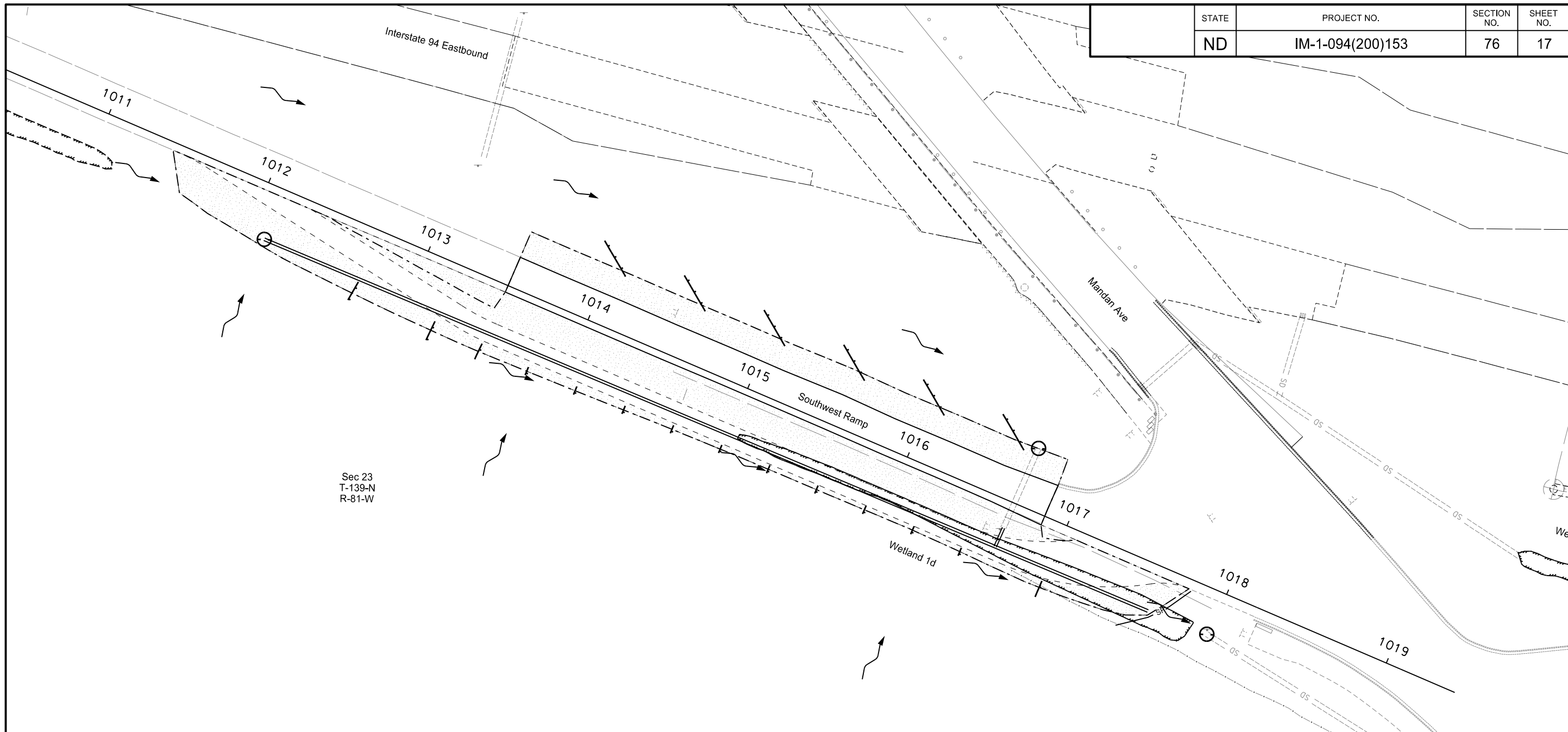
| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
| 3:1 | 45' |
| 4:1 or flatter | 60' |



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 ND 1806
 Sta 3843+50 to 3850+91.22

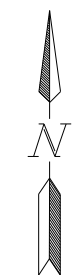
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|-------|------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | IM-1-094(200)153 | 76 | 17 |



| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------|------|
| 251 2000 | TEMPORARY COVER CROP Sta 1011+00 to Sta 1019+00 | 0.428 | ACRE |
| 253 0201 | HYDRAULIC MULCH Sta 1011+00 to Sta 1019+00 | 0.428 | ACRE |
| 260 0100 | SILT FENCE UNSUPPORTED Sta 1011+00 to Sta 1019+00 | 49 | LF |
| 260 0101 | REMOVE SILT FENCE UNSUPPORTED Sta 1011+00 to Sta 1019+00 | 49 | LF |
| 261 0112 | FIBER ROLLS 12IN Sta 1011+00 to Sta 1019+00 | 238 | LF |
| 261 0113 | REMOVE FIBER ROLLS 12IN Sta 1011+00 to Sta 1019+00 | 238 | LF |

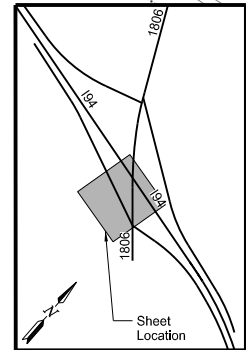
| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|--|-------------|----------------|
| 708 1531 | INLET PROTECTION-FIBER ROLL 12IN 1012+10.6 31.0' Rt 1016+67.4 34.5' Lt 1017+98.6 25.5' Rt | 1 1 1 | EA EA EA |
| 708 1533 | REMOVAL INLET PROTECTION-FIBER ROLL 12IN 1012+10.6 31.0' Rt 1016+67.4 34.5' Lt 1017+98.6 25.5' Rt | 1 1 1 | EA EA EA |

| LEGEND | |
|--------|-----------------------------------|
| | Fiber Rolls 12IN |
| | Silt Fence |
| | Temporary Cover Crop & Hydromulch |
| | Flow Arrow |
| | Inlet Protection-Special |
| | Inlet Protection-Fiber Roll 12IN |



| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

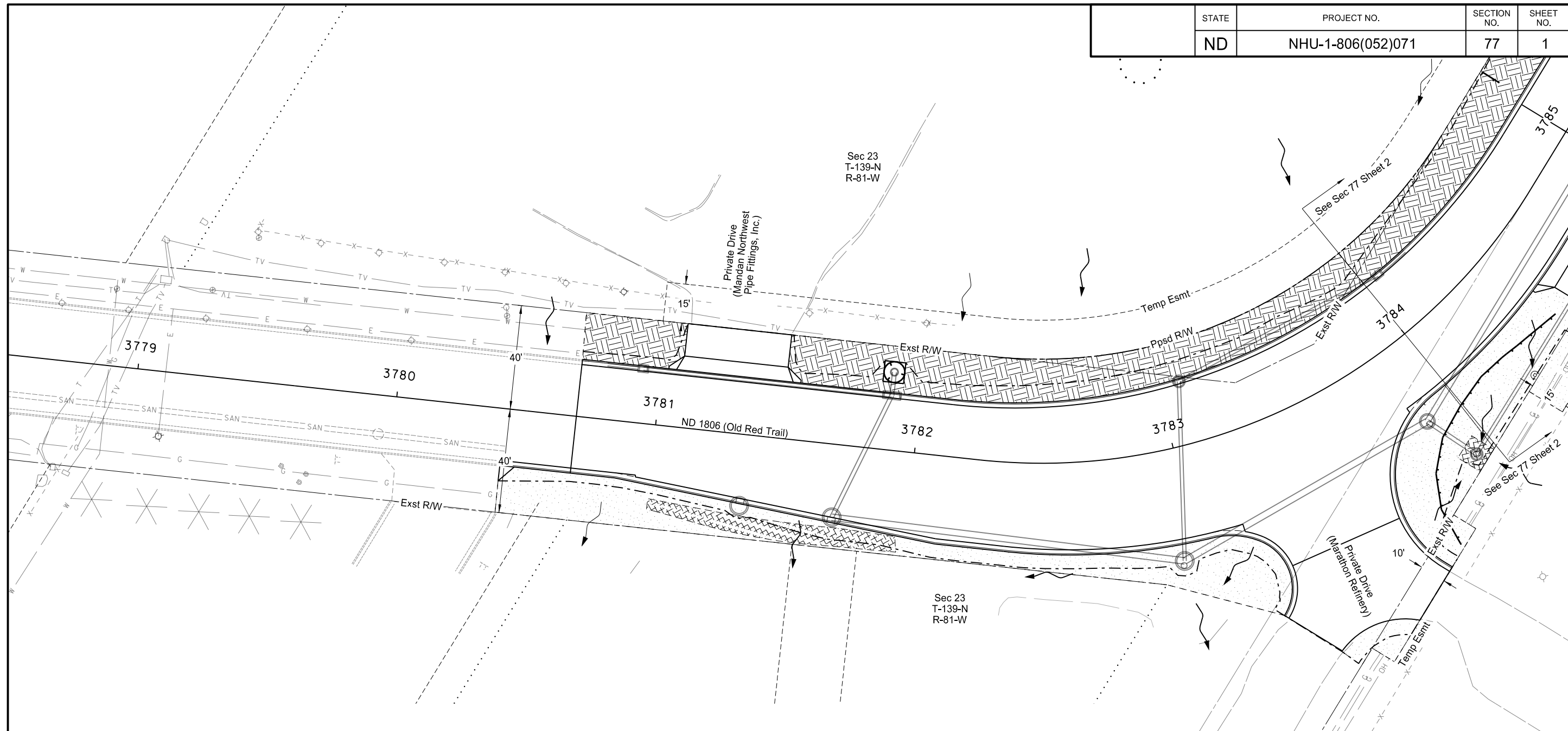
| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
| 3:1 | 45' |
| 4:1 or flatter | 60' |



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ND 1806 Interchange
 Temporary Sediment & Erosion Control
 Southwest Ramp
 Sta 1011+00 to 1019+00 (EX94SWR)

| | | | |
|-------|-------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 77 | 1 |



| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|--|-------|------|
| 251 0100 | SEEDING CLASS I Sta 3780+42 to Sta 3784+00 | 0.098 | ACRE |
| 251 0300 | SEEDING CLASS III Sta 3780+42 to Sta 3784+00 | 0.136 | ACRE |
| 253 0201 | HYDRAULIC MULCH Sta 3780+42 to Sta 3784+00 | 0.217 | ACRE |
| 255 0101 | ECB TYPE 1 Sta 3780+42 to Sta 3784+00 | 80 | SY |
| 261 0112 | FIBER ROLLS 12IN Sta 3780+42 to Sta 3784+00 | 58 | LF |
| 708 1531 | INLET PROTECTION-FIBER ROLL 12IN Sta 3781+89 30.0' Lt | 1 | EA |

| LEGEND | |
|--------|----------------------------------|
| | Seeding Class I & Hydro-mulch |
| | Seeding Class I & ECB Type 1 |
| | Seeding Class III & Hydro-mulch |
| | Seeding Class III & ECB Type 1 |
| | Fiber Rolls 12IN |
| | Flow Arrow |
| | Inlet Protection-Fiber Roll 12IN |

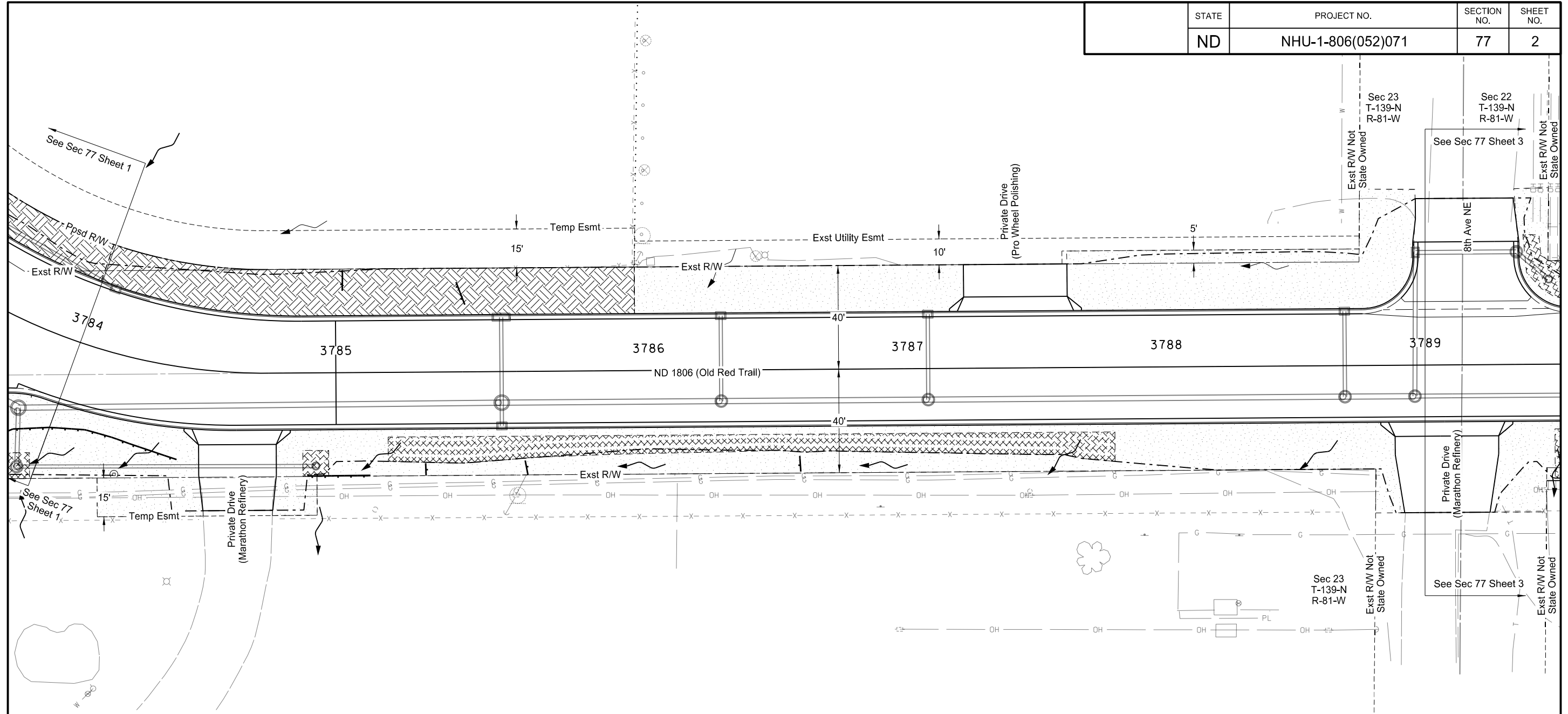
| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
| 3:1 | 45' |
| 4:1 or flatter | 60' |

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ND 1806
 Permanent Sediment & Erosion Control
 ND 1806
 Sta 3780+00 to 3784+00

| | | | |
|-------|-------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 77 | 2 |

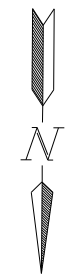


| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------|------|
| 251 0100 | SEEDING CLASS I Sta 3784+00 to Sta 3789+00 | 0.082 | ACRE |
| 251 0300 | SEEDING CLASS III Sta 3784+00 to Sta 3789+00 | 0.364 | ACRE |
| 253 0201 | HYDRAULIC MULCH Sta 3784+00 to Sta 3789+00 | 0.392 | ACRE |
| 255 0101 | ECB TYPE 1 Sta 3784+00 to Sta 3789+00 | 260 | SY |
| 261 0112 | FIBER ROLLS 12IN Sta 3784+00 to Sta 3789+00 | 110 | LF |

| LEGEND | |
|--------|----------------------------------|
| | Seeding Class I & Hydro-mulch |
| | Seeding Class I & ECB Type 1 |
| | Seeding Class III & Hydro-mulch |
| | Seeding Class III & ECB Type 1 |
| | Fiber Rolls 12IN |
| | Flow Arrow |
| | Inlet Protection-Fiber Roll 12IN |

| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

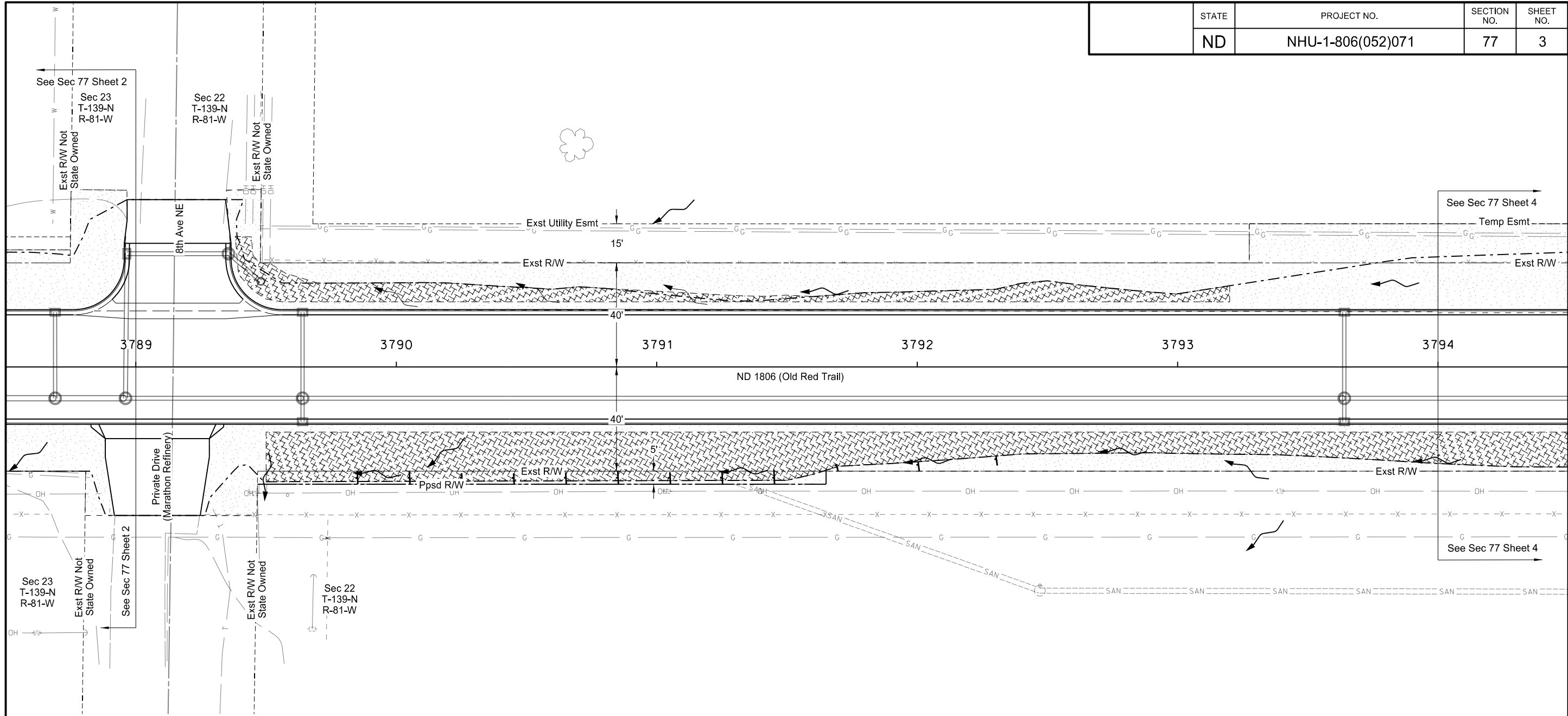
| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
| 3:1 | 45' |
| 4:1 or flatter | 60' |



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ND 1806
 Permanent Sediment & Erosion Control
 ND 1806
 Sta 3784+00 to 3789+00

| | | | |
|-------|-------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 77 | 3 |



| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------|------|
| 251 0300 | SEEDING CLASS III Sta 3789+00 to Sta 3794+00 | 0.454 | ACRE |
| 253 0201 | HYDRAULIC MULCH Sta 3789+00 to Sta 3794+00 | 0.262 | ACRE |
| 255 0101 | ECB TYPE 1 Sta 3789+00 to Sta 3794+00 | 933 | SY |
| 261 0112 | FIBER ROLLS 12IN Sta 3789+00 to Sta 3794+00 | 54 | LF |

| LEGEND | |
|--------|----------------------------------|
| | Seeding Class I & Hydro-mulch |
| | Seeding Class I & ECB Type 1 |
| | Seeding Class III & Hydro-mulch |
| | Seeding Class III & ECB Type 1 |
| | Fiber Rolls 12IN |
| | Flow Arrow |
| | Inlet Protection-Fiber Roll 12IN |

| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

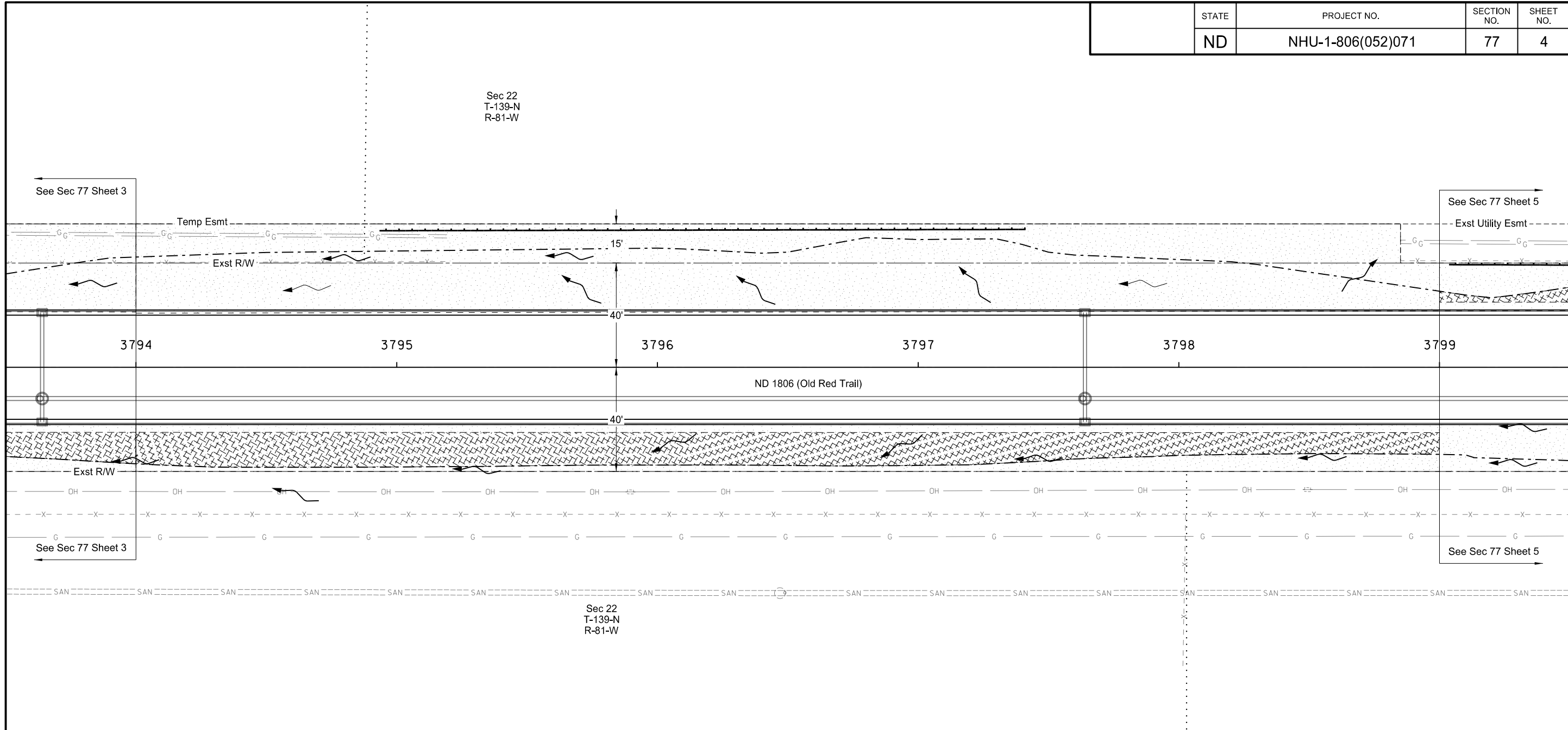
| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
| 3:1 | 45' |
| 4:1 or flatter | 60' |



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ND 1806
 Permanent Sediment & Erosion Control
 ND 1806
 Sta 3789+00 to 3794+00

| | | | |
|-------|-------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 77 | 4 |



| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------|------|
| 251 0300 | SEEDING CLASS III Sta 3794+00 to Sta 3799+00 | 0.589 | ACRE |
| 253 0201 | HYDRAULIC MULCH Sta 3794+00 to Sta 3799+00 | 0.457 | ACRE |
| 255 0101 | ECB TYPE 1 Sta 3794+00 to Sta 3799+00 | 641 | SY |
| 261 0112 | FIBER ROLLS 12IN Sta 3794+00 to Sta 3799+00 | 248 | LF |

| LEGEND | |
|--------|----------------------------------|
| | Seeding Class I & Hydro-mulch |
| | Seeding Class I & ECB Type 1 |
| | Seeding Class III & Hydro-mulch |
| | Seeding Class III & ECB Type 1 |
| | Fiber Rolls 12IN |
| | Flow Arrow |
| | Inlet Protection-Fiber Roll 12IN |

| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

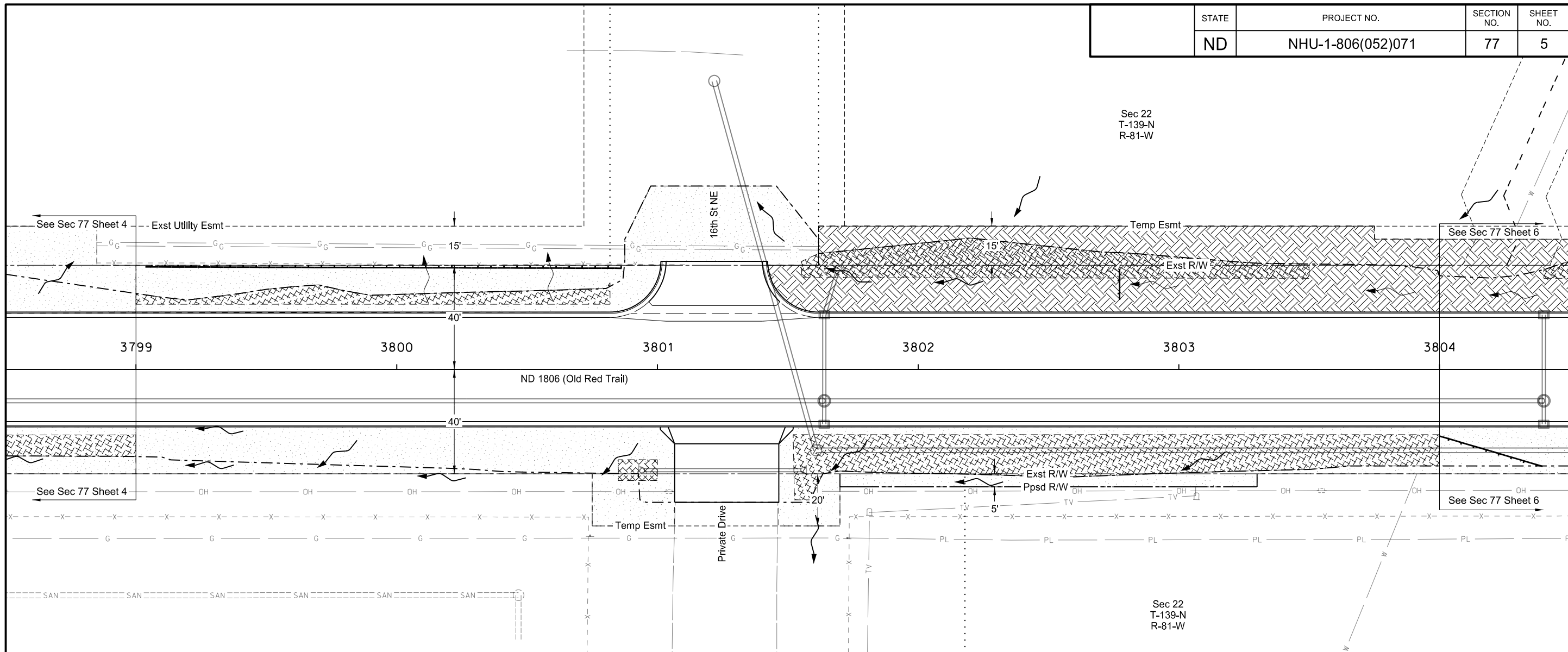
| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
| 3:1 | 45' |
| 4:1 or flatter | 60' |



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 ND 1806
 Sta 3794+00 to 3799+00

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 77 | 5 |



Sec 22
T-139-N
R-81-W

Sec 22
T-139-N
R-81-W

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------|------|
| 251 0100 | SEEDING CLASS I Sta 3799+00 to Sta 3804+00 | 0.184 | ACRE |
| 251 0300 | SEEDING CLASS III Sta 3799+00 to Sta 3804+00 | 0.359 | ACRE |
| 253 0201 | HYDRAULIC MULCH Sta 3799+00 to Sta 3804+00 | 0.391 | ACRE |
| 255 0101 | ECB TYPE 1 Sta 3799+00 to Sta 3804+00 | 733 | SY |
| 261 0112 | FIBER ROLLS 12IN Sta 3799+00 to Sta 3804+00 | 195 | LF |

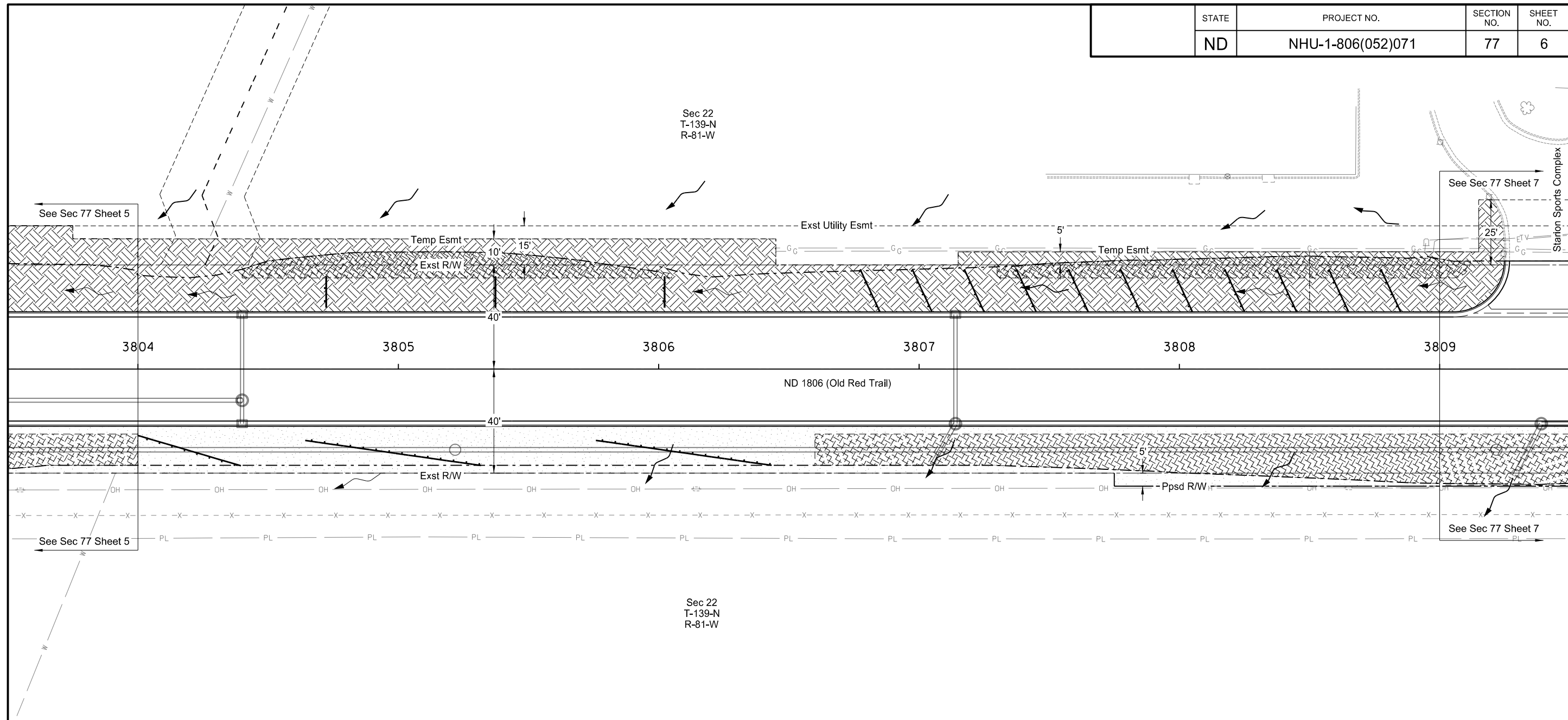
| LEGEND | |
|--------|----------------------------------|
| | Seeding Class I & Hydro-mulch |
| | Seeding Class I & ECB Type 1 |
| | Seeding Class III & Hydro-mulch |
| | Seeding Class III & ECB Type 1 |
| | Fiber Rolls 12IN |
| | Flow Arrow |
| | Inlet Protection-Fiber Roll 12IN |

| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
| 3:1 | 45' |
| 4:1 or flatter | 60' |

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ND 1806
 Permanent Sediment & Erosion Control
 ND 1806
 Sta 3799+00 to 3804+00

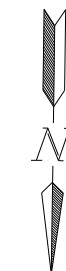


| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------|------|
| 251 0100 | SEEDING CLASS I Sta 3804+00 to Sta 3809+00 | 0.284 | ACRE |
| 251 0300 | SEEDING CLASS III Sta 3804+00 to Sta 3809+00 | 0.221 | ACRE |
| 253 0201 | HYDRAULIC MULCH Sta 3804+00 to Sta 3809+00 | 0.368 | ACRE |
| 255 0101 | ECB TYPE 1 Sta 3804+00 to Sta 3809+00 | 662 | SY |
| 261 0112 | FIBER ROLLS 12IN Sta 3804+00 to Sta 3809+00 | 412 | LF |

| LEGEND | |
|--------|----------------------------------|
| | Seeding Class I & Hydro-mulch |
| | Seeding Class I & ECB Type 1 |
| | Seeding Class III & Hydro-mulch |
| | Seeding Class III & ECB Type 1 |
| | Fiber Rolls 12IN |
| | Flow Arrow |
| | Inlet Protection-Fiber Roll 12IN |

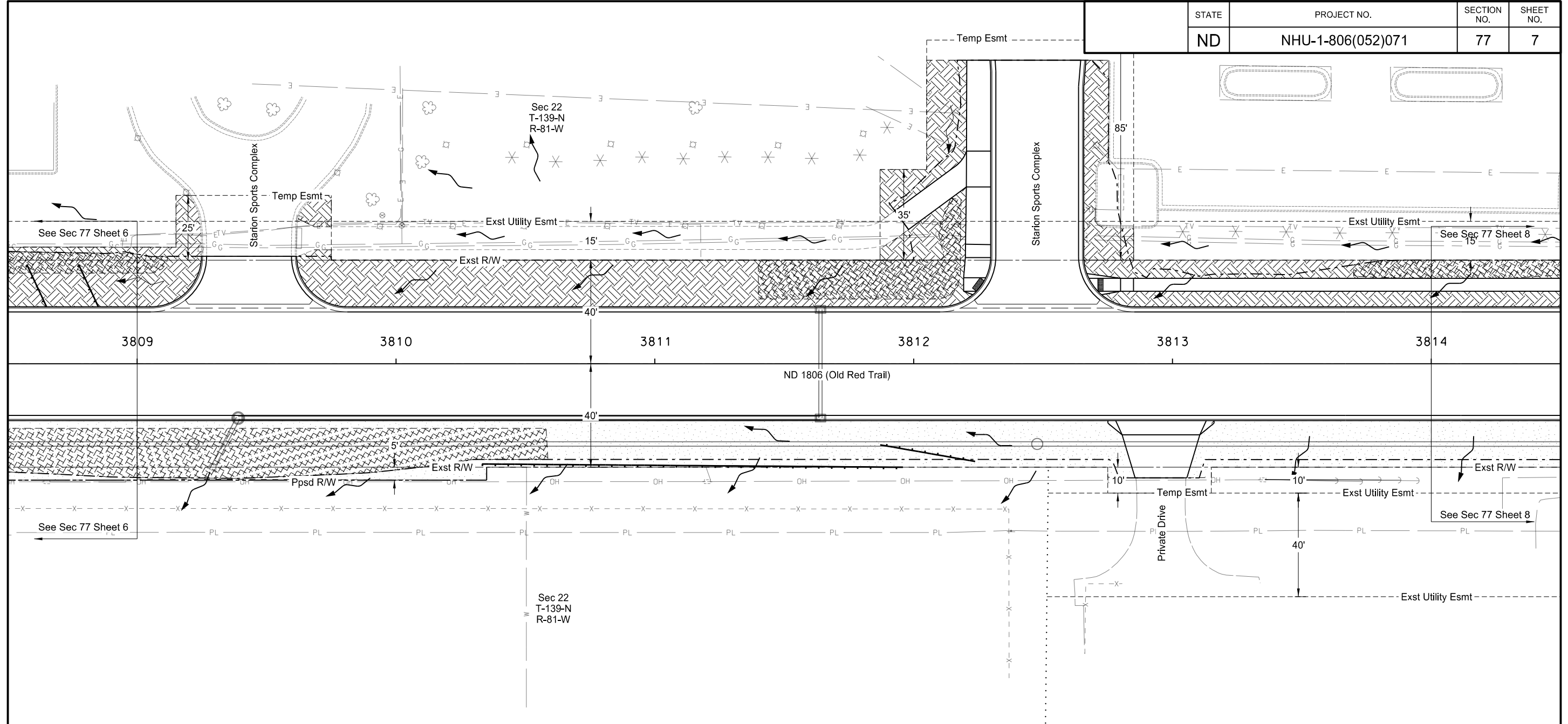
| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
| 3:1 | 45' |
| 4:1 or flatter | 60' |



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ND 1806
 Permanent Sediment & Erosion Control
 ND 1806
 Sta 3804+00 to 3809+00

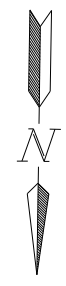


| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------|------|
| 251 0100 | SEEDING CLASS I Sta 3809+00 to Sta 3814+00 | 0.212 | ACRE |
| 251 0300 | SEEDING CLASS III Sta 3809+00 to Sta 3814+00 | 0.211 | ACRE |
| 253 0201 | HYDRAULIC MULCH Sta 3809+00 to Sta 3814+00 | 0.327 | ACRE |
| 255 0101 | ECB TYPE 1 Sta 3809+00 to Sta 3814+00 | 465 | SY |
| 261 0112 | FIBER ROLLS 12IN Sta 3809+00 to Sta 3814+00 | 200 | LF |

| LEGEND | |
|--------|----------------------------------|
| | Seeding Class I & Hydro-mulch |
| | Seeding Class I & ECB Type 1 |
| | Seeding Class III & Hydro-mulch |
| | Seeding Class III & ECB Type 1 |
| | Fiber Rolls 12IN |
| | Flow Arrow |
| | Inlet Protection-Fiber Roll 12IN |

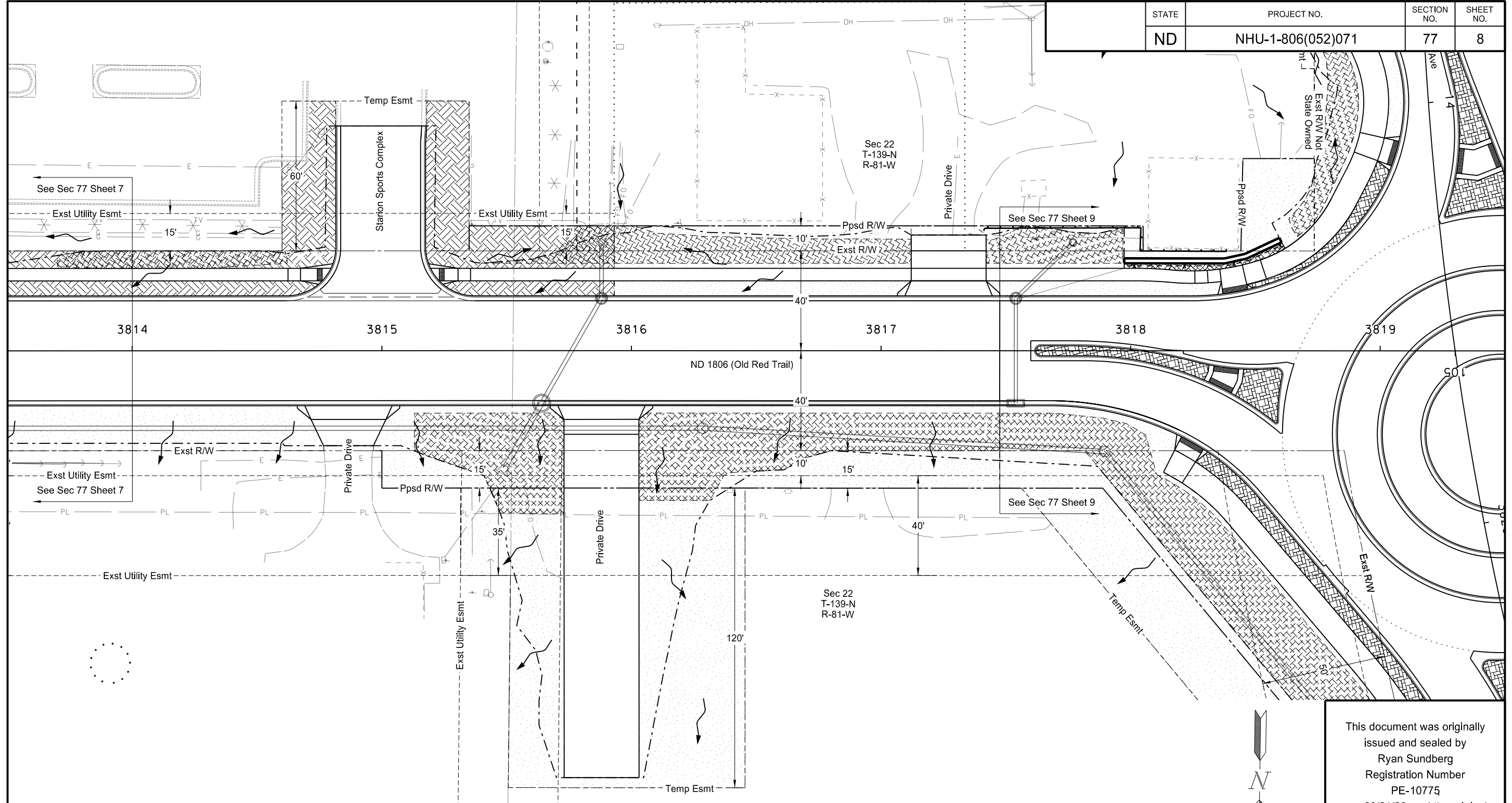
| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
| 3:1 | 45' |
| 4:1 or flatter | 60' |



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 ND 1806
 Sta 3809+00 to 3814+00

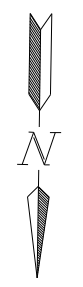


| LEGEND | |
|--------|----------------------------------|
| | Seeding Class I & Hydro-mulch |
| | Seeding Class I & ECB Type 1 |
| | Seeding Class III & Hydro-mulch |
| | Seeding Class III & ECB Type 1 |
| | Fiber Rolls 12IN |
| | Flow Arrow |
| | Inlet Protection-Fiber Roll 12IN |

| SPEC CODE | BID ITEM | QTY | UNIT | 255 0101 ECB TYPE 1 | 261 0112 FIBER ROLLS 12IN |
|-----------|---|-------|------|----------------------------|---------------------------|
| 251 0100 | SEEDING CLASS I Sta 3814+00 to Sta 3817+50 | 0.105 | ACRE | Sta 3814+00 to Sta 3817+50 | 724 SY |
| 251 0300 | SEEDING CLASS III Sta 3814+00 to Sta 3817+50 | 0.455 | ACRE | Sta 3814+00 to Sta 3817+50 | 10 LF |
| 253 0201 | HYDRAULIC MULCH Sta 3814+00 to Sta 3817+50 | 0.410 | ACRE | | |

| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
| 3:1 | 45' |
| 4:1 or flatter | 60' |

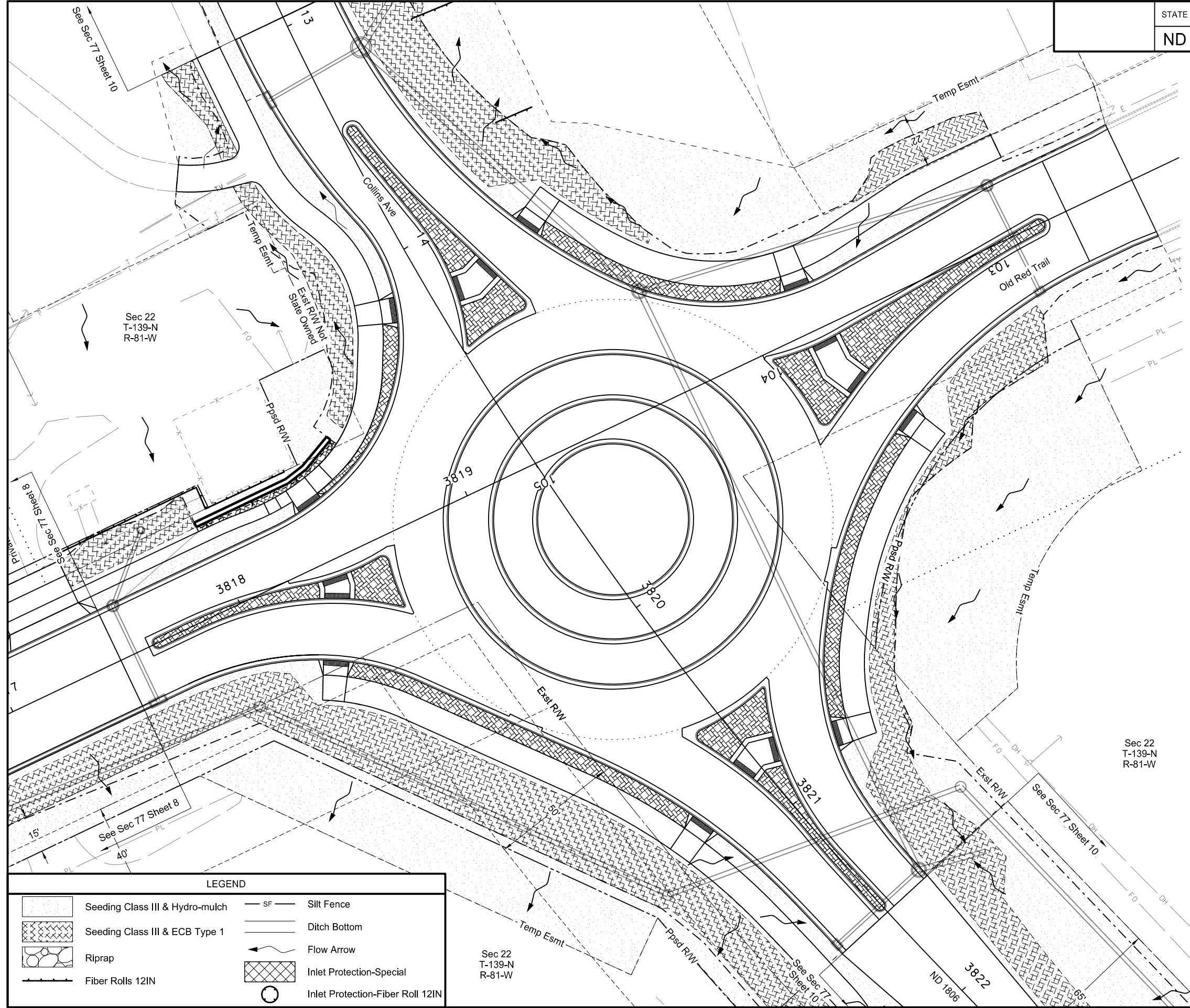


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ND 1806
 Permanent Sediment & Erosion Control
 ND 1806
 Sta 3814+00 to 3817+47.57

| | | | |
|-------|-------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 77 | 9 |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------|------|
| 251 0300 | SEEDING CLASS III Sta 3817+50 to Sta 3821+57 | 1.148 | ACRE |
| 253 0201 | HYDRAULIC MULCH Sta 3817+50 to Sta 3821+57 | 0.784 | ACRE |
| 255 0101 | ECB TYPE 1 Sta 3817+50 to Sta 3821+57 | 1,763 | SY |
| 261 0112 | FIBER ROLLS 12IN Sta 3817+50 to Sta 3821+57 | 68 | LF |



Sec 22
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R-81-W

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R-81-W

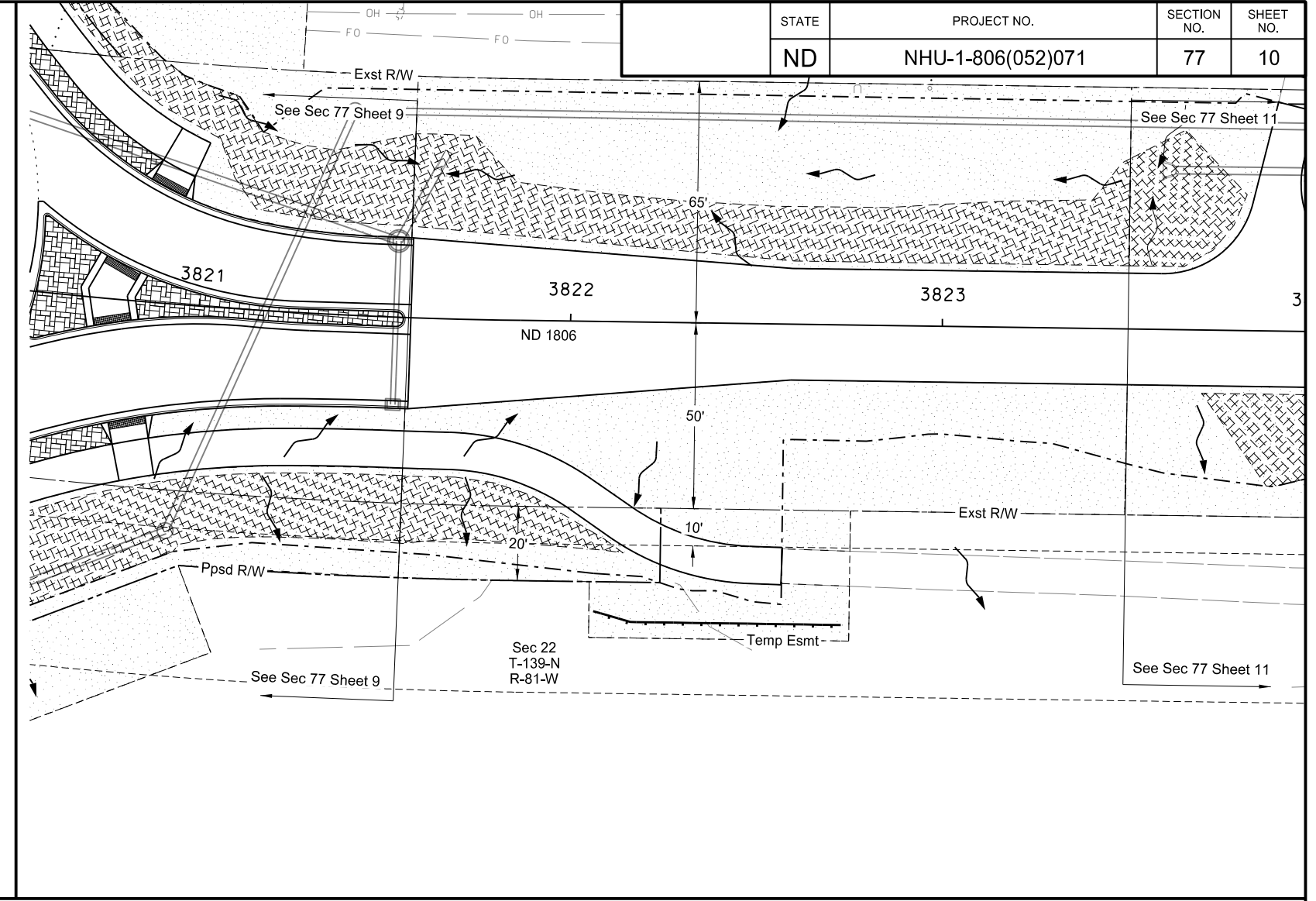
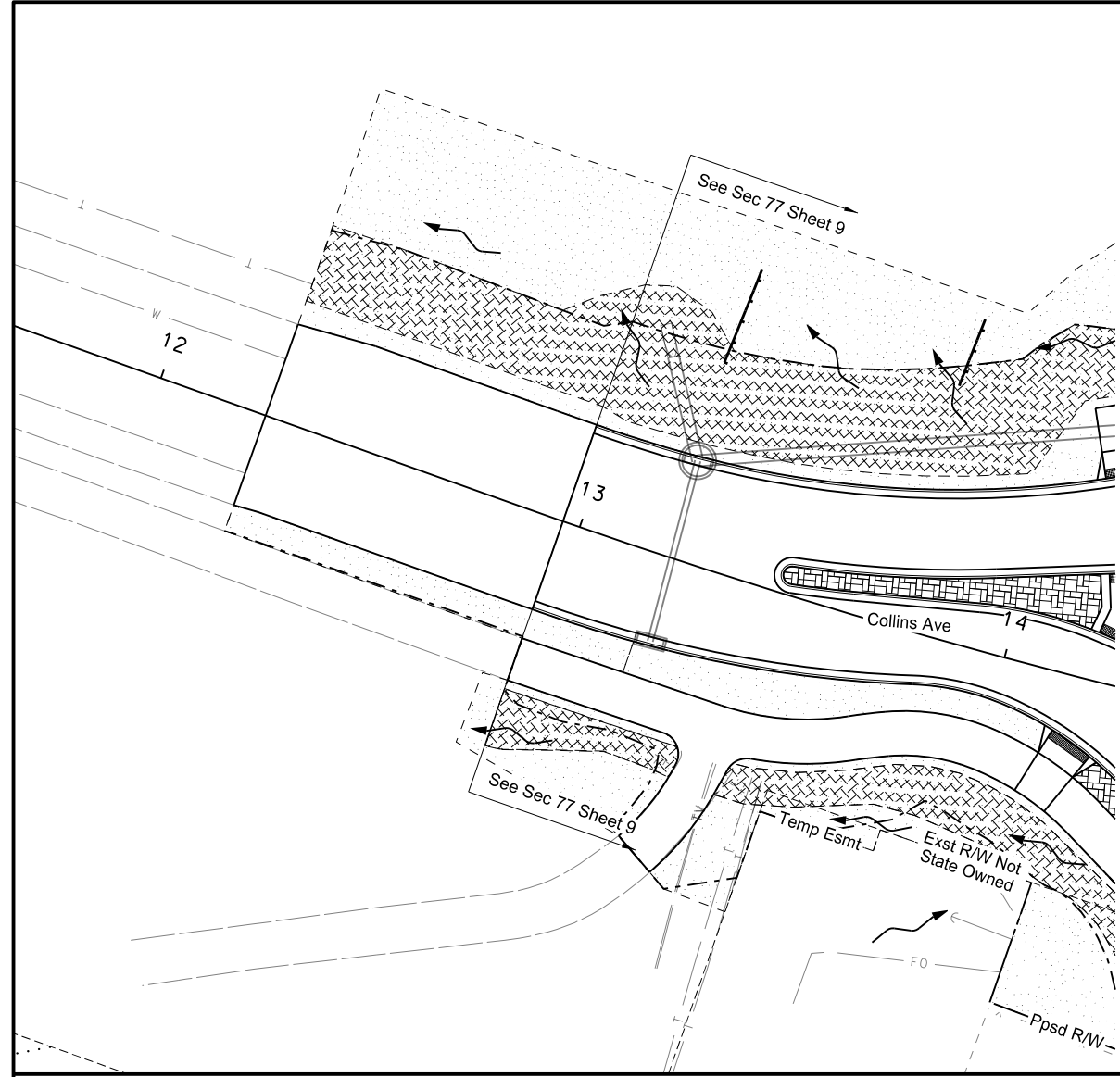
Sec 22
T-139-N
R-81-W

LEGEND

| | | | |
|--|---------------------------------|--|----------------------------------|
| | Seeding Class III & Hydro-mulch | | Silt Fence |
| | Seeding Class III & ECB Type 1 | | Ditch Bottom |
| | Riprap | | Flow Arrow |
| | Fiber Rolls 12IN | | Inlet Protection-Special |
| | | | Inlet Protection-Fiber Roll 12IN |

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 ND 1806
 Sta 3817+47.57 to 3821+57.00

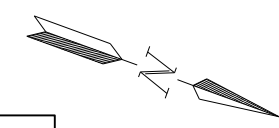


| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|----------------------------|-------|------|
| 251 0300 | SEEDING CLASS III | | |
| | Sta 12+04 to Sta 12+96 | 0.106 | ACRE |
| | Sta 3821+57 to Sta 3823+50 | 0.409 | ACRE |
| 253 0201 | HYDRAULIC MULCH | | |
| | Sta 12+04 to Sta 12+96 | 0.077 | ACRE |
| | Sta 3821+57 to Sta 3822+50 | 0.318 | ACRE |
| 255 0101 | ECB TYPE 1 | | |
| | Sta 12+04 to Sta 12+96 | 139 | SY |
| | Sta 3821+57 to Sta 3823+50 | 437 | SY |
| 261 0112 | FIBER ROLLS 12IN | | |
| | Sta 3821+57 to Sta 3823+50 | 132 | LF |

| LEGEND | |
|--------|----------------------------------|
| | Seeding Class I & Hydro-mulch |
| | Seeding Class I & ECB Type 1 |
| | Seeding Class III & Hydro-mulch |
| | Seeding Class III & ECB Type 1 |
| | Fiber Rolls 12IN |
| | Flow Arrow |
| | Inlet Protection-Fiber Roll 12IN |

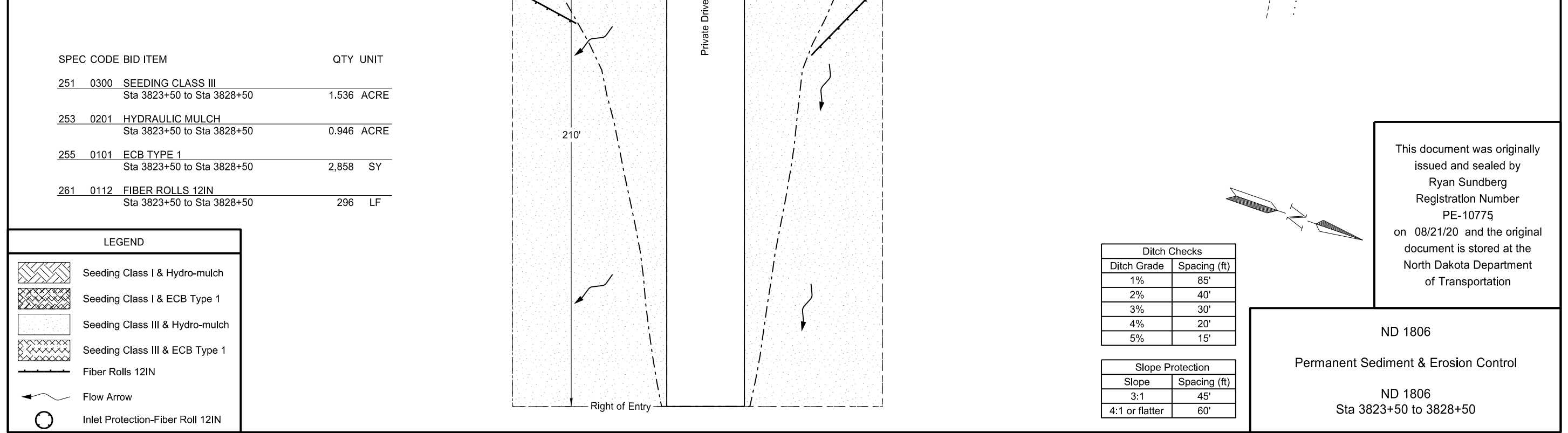
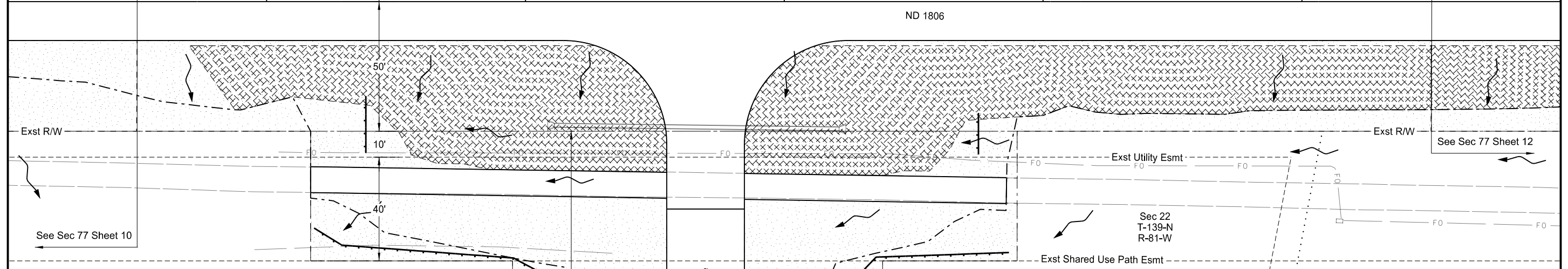
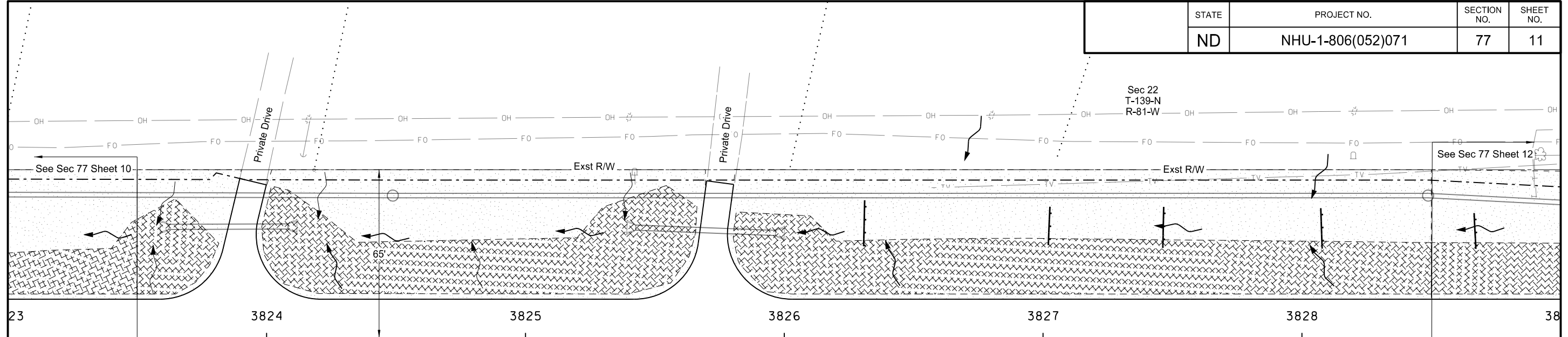
| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
| 3:1 | 45' |
| 4:1 or flatter | 60' |



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 ND 1806
 Sta 3821+57 to 3823+50
 Sta 12+04.81 to 13+19.26 (PRRBCOL)

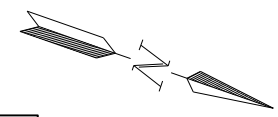


| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------|------|
| 251 0300 | SEEDING CLASS III Sta 3823+50 to Sta 3828+50 | 1,536 | ACRE |
| 253 0201 | HYDRAULIC MULCH Sta 3823+50 to Sta 3828+50 | 0,946 | ACRE |
| 255 0101 | ECB TYPE 1 Sta 3823+50 to Sta 3828+50 | 2,858 | SY |
| 261 0112 | FIBER ROLLS 12IN Sta 3823+50 to Sta 3828+50 | 296 | LF |

| LEGEND | |
|--------|----------------------------------|
| | Seeding Class I & Hydro-mulch |
| | Seeding Class I & ECB Type 1 |
| | Seeding Class III & Hydro-mulch |
| | Seeding Class III & ECB Type 1 |
| | Fiber Rolls 12IN |
| | Flow Arrow |
| | Inlet Protection-Fiber Roll 12IN |

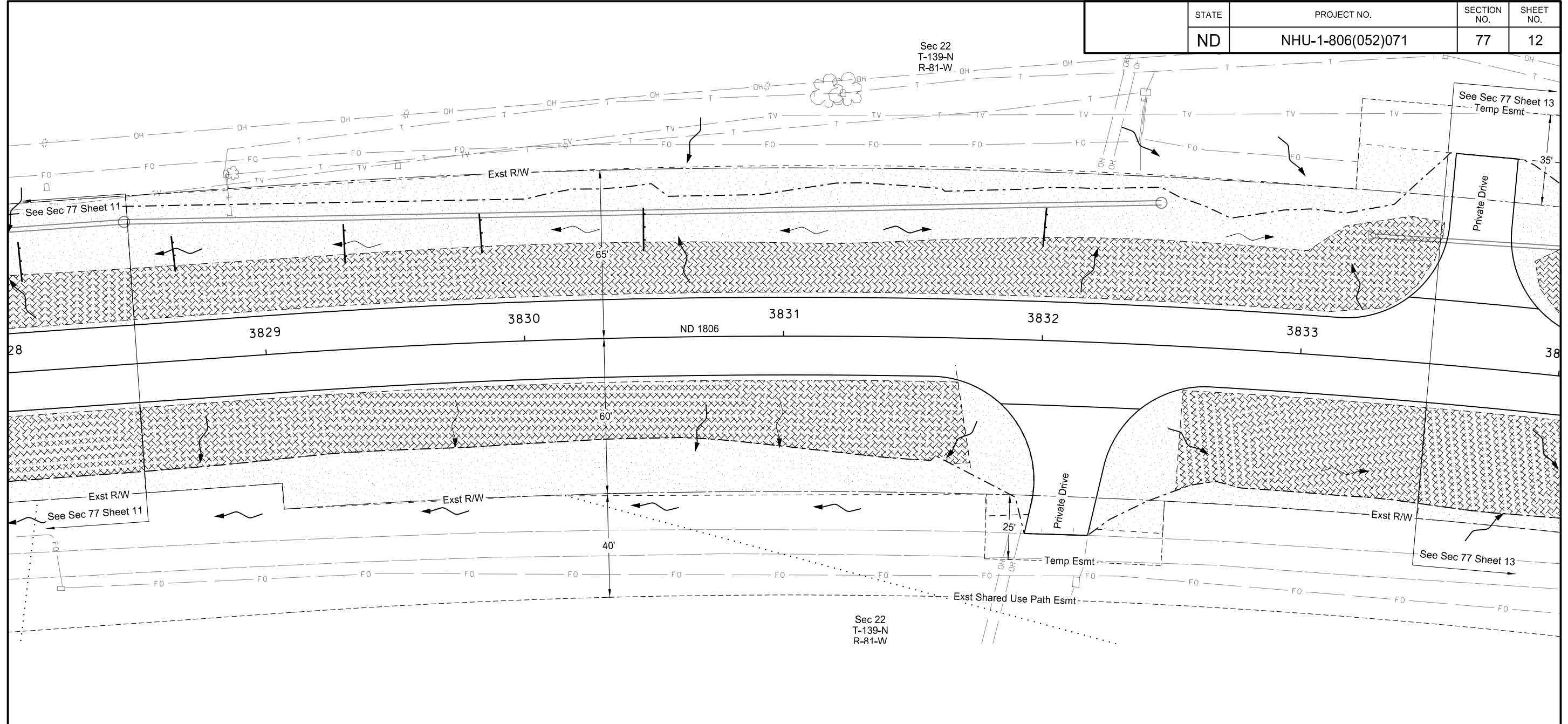
| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
| 3:1 | 45' |
| 4:1 or flatter | 60' |



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 ND 1806
 Sta 3823+50 to 3828+50

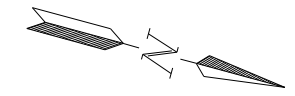


| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------|------|
| 251 0300 | SEEDING CLASS III Sta 3828+50 to Sta 3833+55 | 1.065 | ACRE |
| 253 0201 | HYDRAULIC MULCH Sta 3828+50 to Sta 3833+55 | 0.559 | ACRE |
| 255 0101 | ECB TYPE 1 Sta 3828+50 to Sta 3833+55 | 2,449 | SY |
| 261 0112 | FIBER ROLLS 12IN Sta 3828+50 to Sta 3833+55 | 76 | LF |

| LEGEND | |
|--------|----------------------------------|
| | Seeding Class I & Hydro-mulch |
| | Seeding Class I & ECB Type 1 |
| | Seeding Class III & Hydro-mulch |
| | Seeding Class III & ECB Type 1 |
| | Fiber Rolls 12IN |
| | Flow Arrow |
| | Inlet Protection-Fiber Roll 12IN |

| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

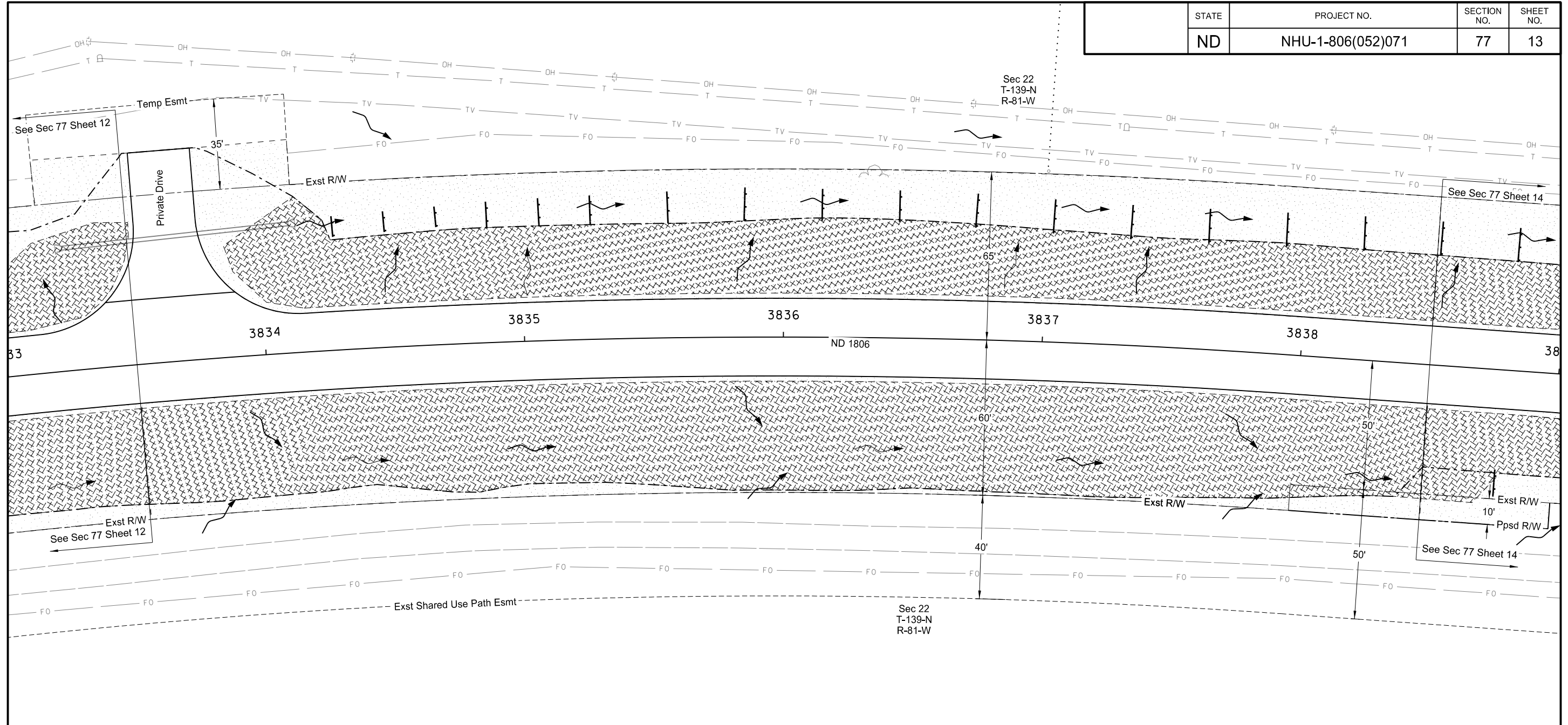
| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 77 | 13 |

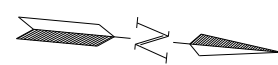


| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------|------|
| 251 0300 | SEEDING CLASS III Sta 3833+55 to Sta 3838+50 | 1.068 | ACRE |
| 253 0201 | HYDRAULIC MULCH Sta 3833+55 to Sta 3838+50 | 0.328 | ACRE |
| 255 0101 | ECB TYPE 1 Sta 3833+55 to Sta 3838+50 | 3,579 | SY |
| 261 0112 | FIBER ROLLS 12IN Sta 3833+55 to Sta 3838+50 | 185 | LF |

| LEGEND | |
|--------|----------------------------------|
| | Seeding Class I & Hydro-mulch |
| | Seeding Class I & ECB Type 1 |
| | Seeding Class III & Hydro-mulch |
| | Seeding Class III & ECB Type 1 |
| | Fiber Rolls 12IN |
| | Flow Arrow |
| | Inlet Protection-Fiber Roll 12IN |

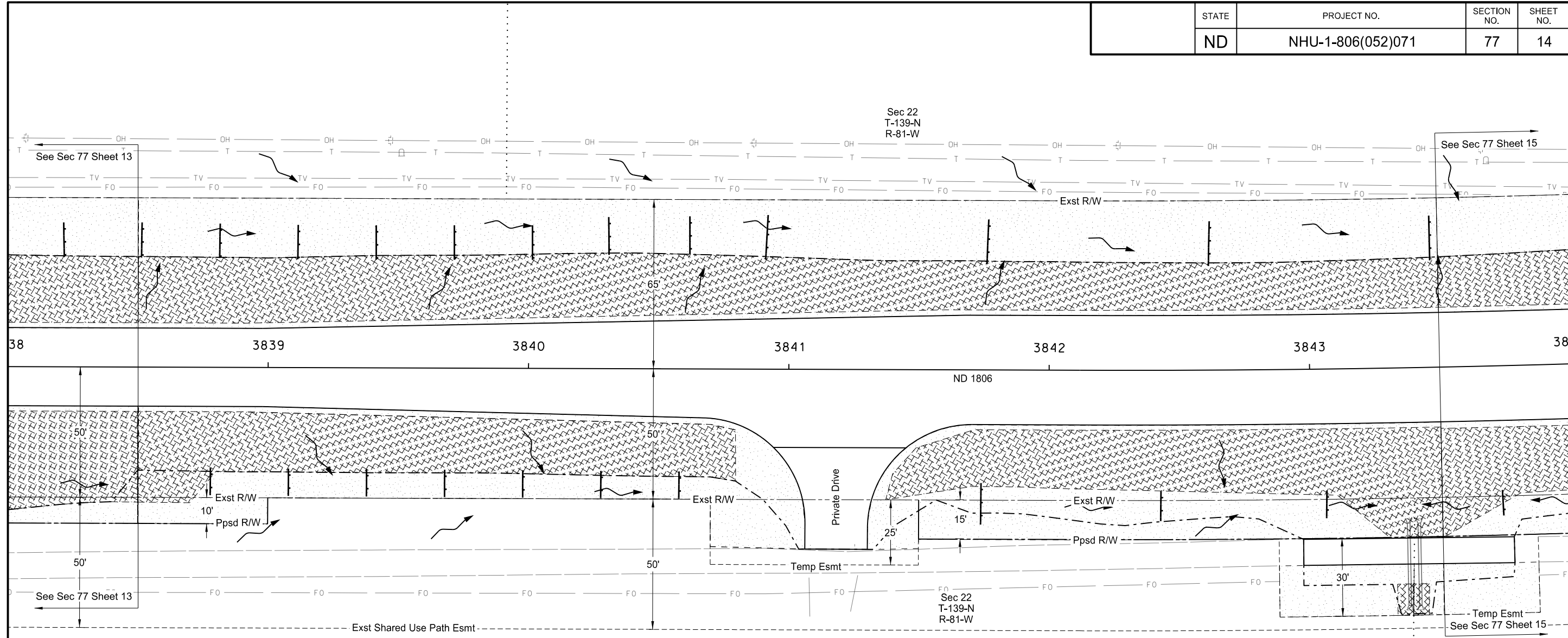
| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
| 3:1 | 45' |
| 4:1 or flatter | 60' |



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ND 1806
 Permanent Sediment & Erosion Control
 ND 1806
 Sta 3833+50 to 3838+50



| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------|------|
| 251 0300 | SEEDING CLASS III Sta 3838+50 to Sta 3843+50 | 0.989 | ACRE |
| 253 0201 | HYDRAULIC MULCH Sta 3838+50 to Sta 3843+50 | 0.494 | ACRE |
| 255 0101 | ECB TYPE 1 Sta 3838+50 to Sta 3843+50 | 2,394 | SY |
| 261 0112 | FIBER ROLLS 12IN Sta 3838+50 to Sta 3843+50 | 289 | LF |

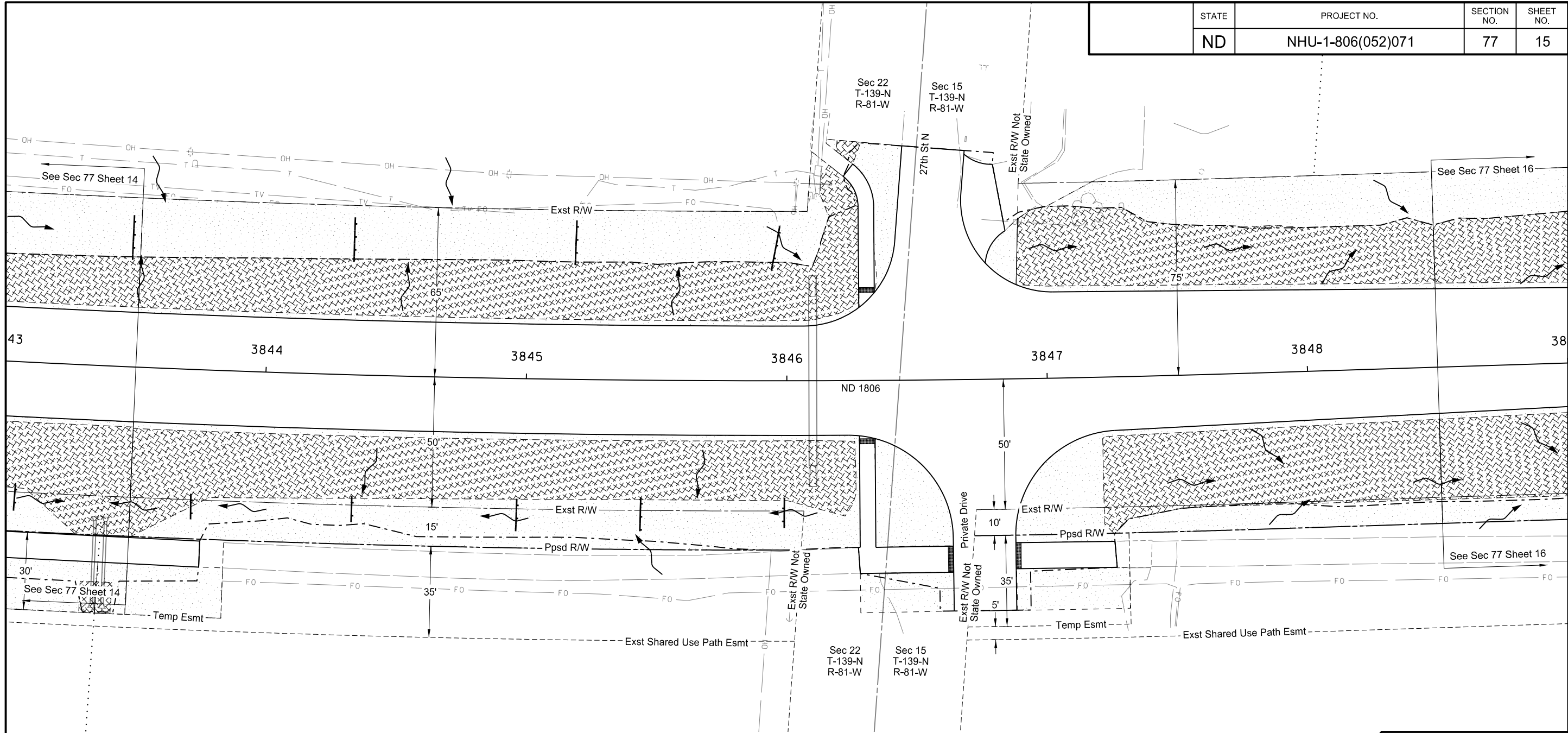
| LEGEND | |
|--------|----------------------------------|
| | Seeding Class I & Hydro-mulch |
| | Seeding Class I & ECB Type 1 |
| | Seeding Class III & Hydro-mulch |
| | Seeding Class III & ECB Type 1 |
| | Fiber Rolls 12IN |
| | Flow Arrow |
| | Inlet Protection-Fiber Roll 12IN |

| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
| 3:1 | 45' |
| 4:1 or flatter | 60' |

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ND 1806
Permanent Sediment & Erosion Control
ND 1806
Sta 3838+50 to 3843+50



| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------|------|
| 251 0300 | SEEDING CLASS III Sta 3843+50 to Sta 3848+50 | 0.952 | ACRE |
| 253 0201 | HYDRAULIC MULCH Sta 3843+50 to Sta 3846+05 Rt | 0.465 | ACRE |
| 255 0101 | ECB TYPE 1 Sta 3843+50 to Sta 3846+05 Rt | 2,358 | SY |
| 261 0112 | FIBER ROLLS 12IN Sta 3843+50 to Sta 3846+05 Rt | 108 | LF |

| LEGEND | |
|--------|----------------------------------|
| | Seeding Class I & Hydro-mulch |
| | Seeding Class I & ECB Type 1 |
| | Seeding Class III & Hydro-mulch |
| | Seeding Class III & ECB Type 1 |
| | Fiber Rolls 12IN |
| | Flow Arrow |
| | Inlet Protection-Fiber Roll 12IN |

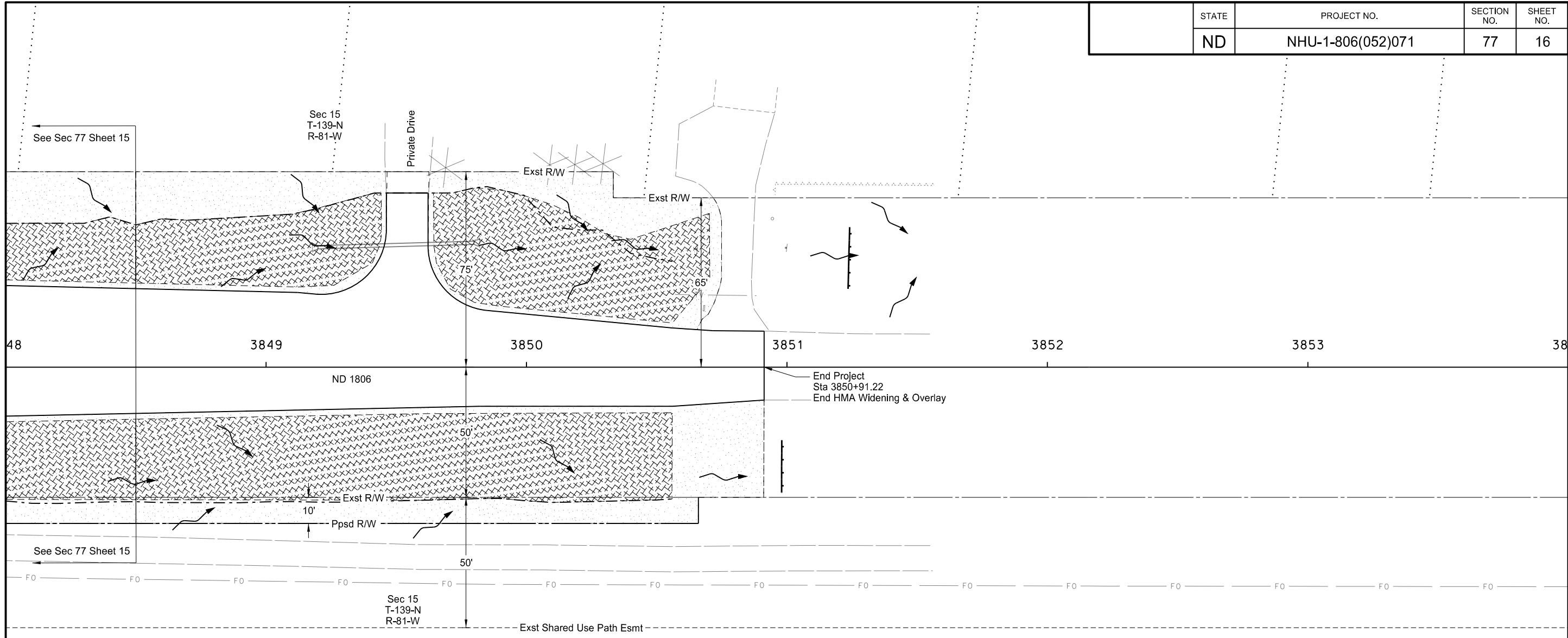
| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
| 3:1 | 45' |
| 4:1 or flatter | 60' |

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ND 1806
 Permanent Sediment & Erosion Control
 ND 1806
 Sta 3843+50 to 3848+50

| | | | |
|-------|-------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 77 | 16 |



| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------|------|
| 251 0300 | SEEDING CLASS III Sta 3848+50 to Sta 3850+91 | 0.471 | ACRE |
| 253 0201 | HYDRAULIC MULCH Sta 3848+50 to Sta 3850+91 | 0.169 | ACRE |
| 255 0101 | ECB TYPE 1 Sta 3848+50 to Sta 3850+91 | 1,463 | SY |
| 261 0112 | FIBER ROLLS 12IN Sta 3848+50 to Sta 3850+91 | 44 | LF |

| LEGEND | |
|--------|----------------------------------|
| | Seeding Class I & Hydro-mulch |
| | Seeding Class I & ECB Type 1 |
| | Seeding Class III & Hydro-mulch |
| | Seeding Class III & ECB Type 1 |
| | Fiber Rolls 12IN |
| | Flow Arrow |
| | Inlet Protection-Fiber Roll 12IN |

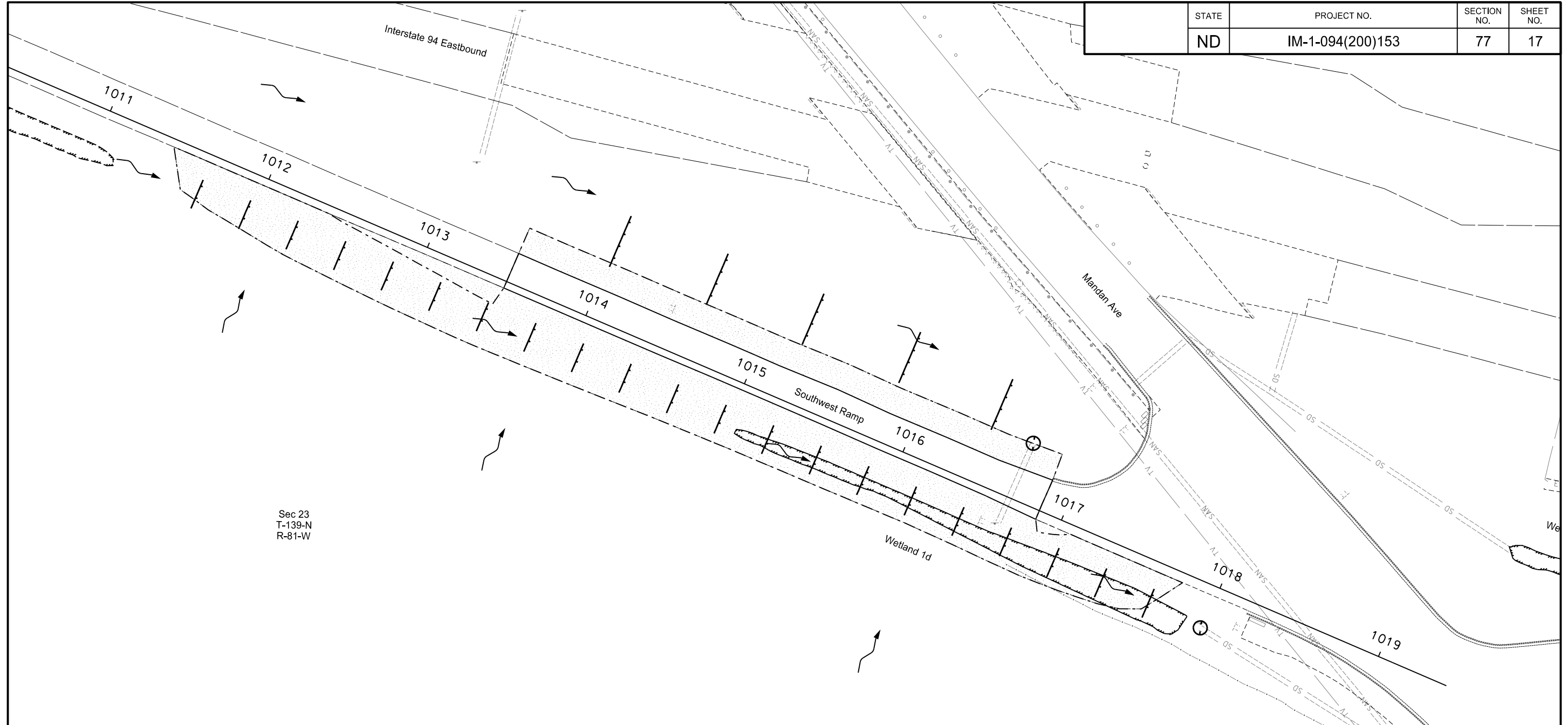
| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
| 3:1 | 45' |
| 4:1 or flatter | 60' |

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ND 1806
 Permanent Sediment & Erosion Control
 ND 1806
 Sta 3843+50 to 3850+91.22

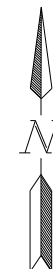
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|-------|------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | IM-1-094(200)153 | 77 | 17 |



Sec 23
T-139-N
R-81-W

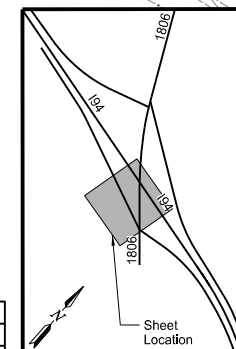
| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|--|--------|----------|
| 251 0300 | SEEDING CLASS III Sta 1011+00 to Sta 1019+00 | 0.600 | ACRE |
| 253 0201 | HYDRAULIC MULCH Sta 1011+00 to Sta 1019+00 | 0.600 | ACRE |
| 261 0112 | FIBER ROLLS 12IN Sta 1011+00 to Sta 1019+00 | 538 | LF |
| 708 1531 | INLET PROTECTION-FIBER ROLL 12IN Sta 1016+67 34.5' Lt Sta 1017+99 25.5' Rt | 1 1 | EA EA |

| LEGEND | |
|--------|----------------------------------|
| | Seeding Class I & Hydro-mulch |
| | Seeding Class I & ECB Type 1 |
| | Seeding Class III & Hydro-mulch |
| | Seeding Class III & ECB Type 1 |
| | Fiber Rolls 12IN |
| | Flow Arrow |
| | Inlet Protection-Fiber Roll 12IN |



| Ditch Checks | |
|--------------|--------------|
| Ditch Grade | Spacing (ft) |
| 1% | 85' |
| 2% | 40' |
| 3% | 30' |
| 4% | 20' |
| 5% | 15' |

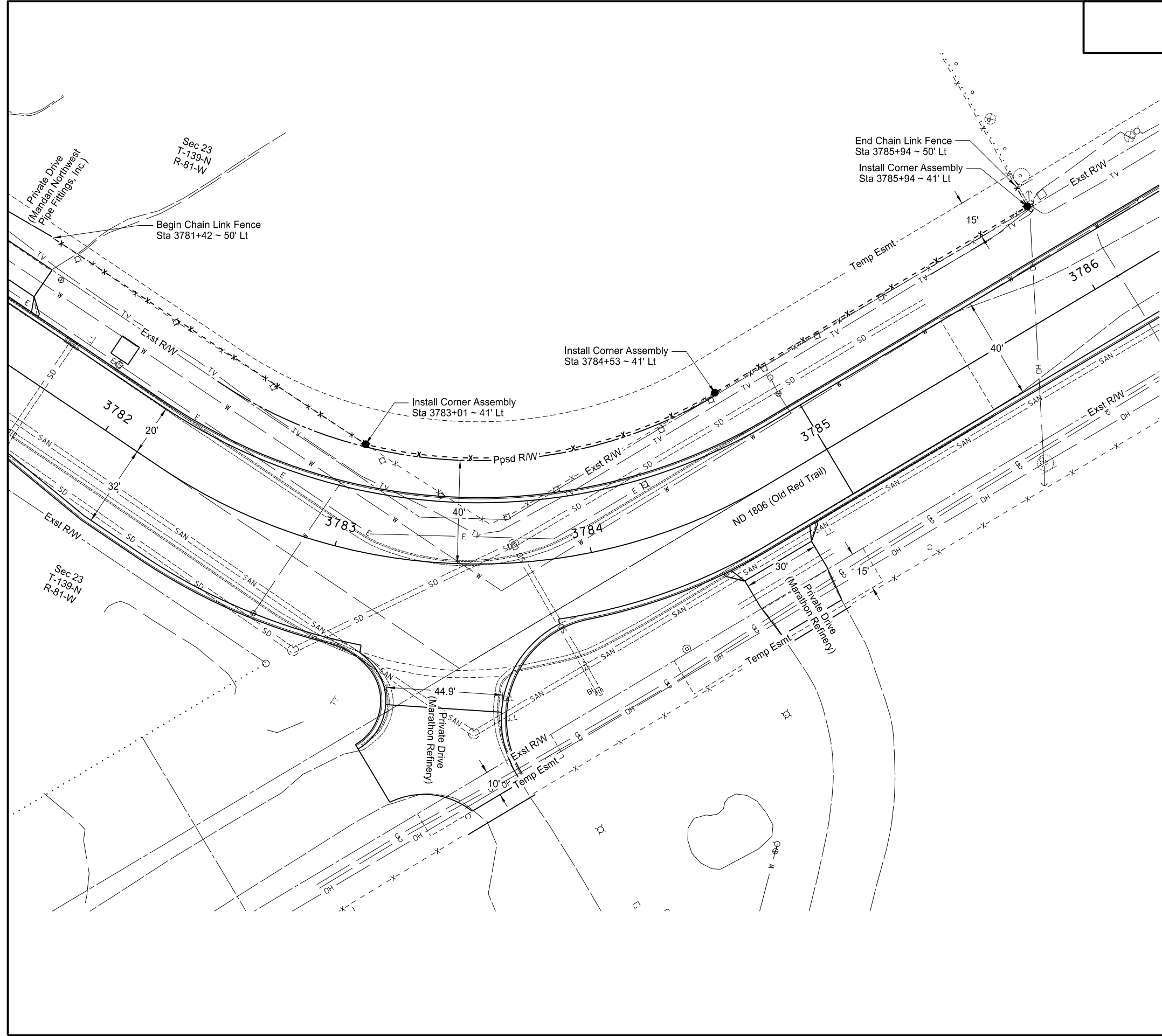
| Slope Protection | |
|------------------|--------------|
| Slope | Spacing (ft) |
| 3:1 | 45' |
| 4:1 or flatter | 60' |



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ND 1806 Interchange
Permanent Sediment & Erosion Control
Southwest Ramp
Sta 1011+00 to 1019+00 (EX94SWR)

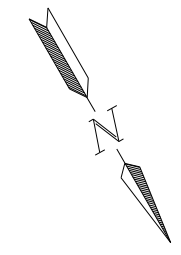
| | | | |
|-------|-------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 80 | 1 |



| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|--|-----|------|
| 752 0600 | FENCE CHAIN LINK | | |
| | Sta 3781+42~50' Lt to Sta 3783+01~41' Lt | 145 | LF |
| | Sta 3783+01~41' Lt to Sta 3785+94~41' Lt | 281 | LF |
| | Sta 3785+94~41' Lt to Sta 3785+94~50' Lt | 9 | LF |
| 752 3100 | CORNER ASSEMBLY CHAIN LINK | | |
| | Sta 3783+01 ~ 41' Lt | 1 | EA |
| | Sta 3784+53 ~ 41' Lt | 1 | EA |
| | Sta 3785+94 ~ 41' Lt | 1 | EA |

| Legend | |
|----------|----------------------------|
| x- - - - | Chain Link Fence |
| ● | Corner Assembly Chain Link |

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ND 1806
 Fencing Layout
 Sta 3782+00 to Sta 3786+00 (PR1806)

PRELIMINARY SURVEY COORDINATE AND CURVE DATA - ND 1806 - I-94 TO 27TH ST NW

| | | | |
|-------|-------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 81 | 1 |

| HORIZONTAL ALIGNMENT | | | | CURVE DATA | | US PUBLIC LAND SURVEY DATA | | | | SURVEY CONTROL POINTS | | | | | | | | | | | |
|--|------------------|------------|-----------|---------------------------------|--------------------------|--|-----------------------|-----------|------------|--|-----------|------------|---------|----------|----------|---|--|--|--|--|--|
| PNT | STATION | NORTHING | EASTING | ARC DEFINITION | | DESC. | SEC-TWP-RGE | NORTHING | EASTING | PNT | NORTHING | EASTING | ELEV | STATION | OFFSET | | | | | | |
| | | | | | | | | | | CONTROL POINT DESCRIPTION | | | | | | | | | | | |
| ND Highway 1806 (CHAIN SCL1806) | | | | ND Highway 1806 | | SE Cor | Sec 22 T-139-N R-81-W | 426736.33 | 1873474.00 | | | | | | | | | | | | |
| BEGIN | Sec Line | 3752+90.20 | 426777.81 | 1875670.55 | Curve C208 | S 1/4 Cor | Sec 22 T-139-N R-81-W | 426690.06 | 1870836.66 | | | | | | | | | | | | |
| Station Equation ND 1806 (SCL1806) at SW Ramp (EX94SWR) and SE Ramp (EX94SER) | | | | PI Sta = 3762+78.50 | | SW Cor | Sec 22 T-139-N R-81-W | 426643.22 | 1868184.70 | Primary Control | | | | | | | | | | | |
| POT | ND 1806 | 3756+21.61 | 427027.82 | 1875453.00 | Delta = 9° 05' 04" (RT) | W 1/4 Cor | Sec 22 T-139-N R-81-W | 429296.50 | 1868177.46 | GPS 1 | 425882.62 | 1876224.60 | 1693.70 | OffChain | OffChain | | | | | | |
| END | I 94 SW Ramp | 1019+42.39 | 427027.82 | 1875453.00 | Da = 1° 30' 00" | C Sec | Sec 22 T-139-N R-81-W | 429332.65 | 1870829.71 | #6 Rebar w/Aluminum Cap stamped 'MA 70.8' | | | | | | | | | | | |
| BEGIN | I 94 SE Ramp | 2000+00.00 | 427027.82 | 1875453.00 | R = 3819.83' | N 1/4 Cor | Sec 22 T-139-N R-81-W | 431988.71 | 1870821.73 | GPS 2 | 433797.28 | 1869809.77 | 1730.36 | OffChain | OffChain | | | | | | |
| PC | | 3759+75.04 | 427294.44 | 1875221.00 | T = 303.46' | NE Cor | Sec 22 T-139-N R-81-W | 432033.77 | 1873468.20 | #6 Rebar w/Aluminum Cap stamped '1806-75.8' | | | | | | | | | | | |
| Station Equation ND 1806 (SCL1806) at I 94 (SCL94) | | | | L = 605.65' | | E 1/4 Cor | Sec 22 T-139-N R-81-W | 429370.20 | 1873467.63 | | | | | | | | | | | | |
| POC | ND 1806 | 3760+68.00 | 427365.31 | 1875160.83 | | S 1/4 Cor | Sec 23 T-139-N R-81-W | 426786.43 | 1876127.33 | Secondary Control | | | | | | | | | | | |
| POT | Interstate 94 | 8130+56.64 | 427365.31 | 1875160.83 | Curve C209 | S 1/16 Cor | Sec 15 T-139-N R-81-W | 433265.12 | 1868177.38 | RTK10 | 427486.67 | 1875107.36 | 1685.78 | 3761+97 | 34' RT | | | | | | |
| PI | CUR C208 | 3762+78.50 | 427523.37 | 1875021.80 | PI Sta = 3766+85.09 | NW Cor | Sec 22 T-139-N R-81-W | 431943.58 | 1868180.49 | RTK11 | 427953.03 | 1874682.26 | 1690.61 | 3768+14 | 75' LT | | | | | | |
| PCC | | 3765+80.69 | 427780.87 | 1874861.24 | Delta = 6° 00' 13" (RT) | C Sec | Sec 23 T-139-N R-81-W | 429408.00 | 1876114.93 | RTK12 | 427165.68 | 1875252.54 | 1679.83 | 3758+57 | 61' LT | | | | | | |
| PI | CUR C209 | 3766+85.09 | 427869.46 | 1874806.00 | Da = 2° 52' 41" | | | | | RTK13 | 428430.74 | 1874576.12 | 1700.86 | 3772+90 | 40' RT | | | | | | |
| Station Equation ND 1806 (SCL1806) at I 94 NW Ramp (EX94NWR) | | | | R = 1990.78' | | | | | | RTK14 | 428864.89 | 1874347.60 | 1705.11 | 3777+81 | 25' RT | | | | | | |
| POC | ND 1806 | 3767+78.26 | 427953.43 | 1874765.19 | T = 104.40' | | | | | RTK15 | 429353.47 | 1874116.04 | 1706.13 | 3783+15 | 34' RT | | | | | | |
| BEGIN | I 94 NW Ramp | 4000+00.00 | 427953.43 | 1874765.19 | L = 208.60' | | | | | RTK16 | 429332.65 | 1873601.73 | 1716.93 | 3788+17 | 39' LT | | | | | | |
| PT | | 3767+89.29 | 427963.34 | 1874760.34 | | | | | | RTK17 | 429290.68 | 1871112.87 | 1790.44 | 3813+06 | 46' LT | | | | | | |
| Station Equation ND 1806 (SCL1806) at I 94 NE Ramp (EXNER) | | | | Curve C211 | | | | | | RTK18 | 429212.68 | 1870536.89 | 1793.90 | 3818+83 | 116' LT | | | | | | |
| POT | ND 1806 | 3768+31.34 | 428001.15 | 1874741.94 | PI Sta = 3783+64.92 | | | | | RTK19 | 429374.64 | 1870113.45 | 1816.23 | 3820+94 | 323' LT | | | | | | |
| END | I 94 NE Ramp | 3023+84.76 | 428001.15 | 1874741.94 | Delta = 64° 45' 02" (LT) | | | | | RTK21 | 430533.04 | 1870127.85 | 1799.85 | 3832+18 | 52' RT | | | | | | |
| PI | | 3768+77.96 | 428043.07 | 1874721.55 | Da = 52° 05' 13" | | | | | RTK22 | 430676.64 | 1869981.25 | 1799.73 | 3833+89 | 60' LT | | | | | | |
| PC | | 3782+95.18 | 429316.13 | 1874098.78 | R = 110.00' | | | | | RTK23 | 431475.41 | 1870050.98 | 1770.82 | 3841+78 | 63' RT | | | | | | |
| PI | CUR C211 | 3783+64.92 | 429378.77 | 1874068.14 | T = 69.74' | | | | | RTK24 | 432089.16 | 1870026.95 | 1771.13 | 3847+86 | 78' RT | | | | | | |
| PT | | 3784+19.49 | 429377.78 | 1873998.40 | L = 124.31' | | | | | RTK95 | 426243.99 | 1877388.36 | 1639.96 | 8156+38 | 142' RT | | | | | | |
| Rec | Sec Cor | 3789+50.31 | 429370.20 | 1873467.63 | | | | | | RTK96 | 429401.21 | 1872665.17 | 1739.75 | 3797+52 | 42' RT | | | | | | |
| Rec | 1/4 Cor | 3815+88.51 | 429332.65 | 1870829.71 | Curve C216 | | | | | RTK97 | 426894.95 | 1876136.82 | 1654.41 | 8141+22 | 206' RT | | | | | | |
| Station Equation ND 1806 (SCL1806) at Collins Ave (EXCOL) and Old Red Trail (EXORT) | | | | PI Sta = 3820+94.68 | | | | | | RTK98 | 425574.82 | 1877870.33 | 1640.56 | OffChain | OffChain | | | | | | |
| PC | 1/4 Line ND 1806 | 3819+66.05 | 429327.50 | 1870452.20 | Delta = 10° 15' 40" (LT) | | | | | RTK99 | 425819.47 | 1877723.88 | 1641.82 | 8162+09 | 150' RT | | | | | | |
| END | Collins Ave | 15+00.00 | 429327.50 | 1870452.20 | Da = 3° 59' 57" | | | | | All coordinates and measurements on this document derived from the International Foot definition. | | | | | | | | | | | |
| END | Old Red Trail | 105+00.00 | 429327.50 | 1870452.20 | R = 1432.69' | | | | | | | | | | | This document was originally issued and sealed by Brian R. Heath Registration Number LS- 7538 , on 08/21/20 and the original document is stored at the North Dakota Department of Transportation | | | | | |
| PI | CUR C216 | 3820+94.68 | 429454.57 | 1870432.20 | T = 128.63' | | | | | | | | | | | | | | | | |
| PT | | 3822+22.63 | 429576.05 | 1870389.88 | L = 256.58' | | | | | INITIALIZING BENCH MARK NDGPS Stations (OPUS) <input checked="" type="checkbox"/> NAVD-88 <input type="checkbox"/> NGVD-29 <input type="checkbox"/> GEOID 09 <input checked="" type="checkbox"/> GEOID 12B | | | | | | | | | | | |
| NOTES: Sheet 1 of 3 Control was developed from Static Network based on OPUS solutions. | | | | Date Survey Completed 8/29/2018 | | <input type="checkbox"/> Assumed Coordinates <input checked="" type="checkbox"/> All coordinates on this sheet are Morton County ground coordinates. They are derived from the NAD83(2011) reference frame; North Dakota South Zone Combination Factor (cf) = 0.9998485 | | | | | | | | | | | | | | | |

PRELIMINARY SURVEY COORDINATE AND CURVE DATA - ND 1806 - I-94 TO 27TH ST NW

| | | | |
|-------|-------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 81 | 2 |

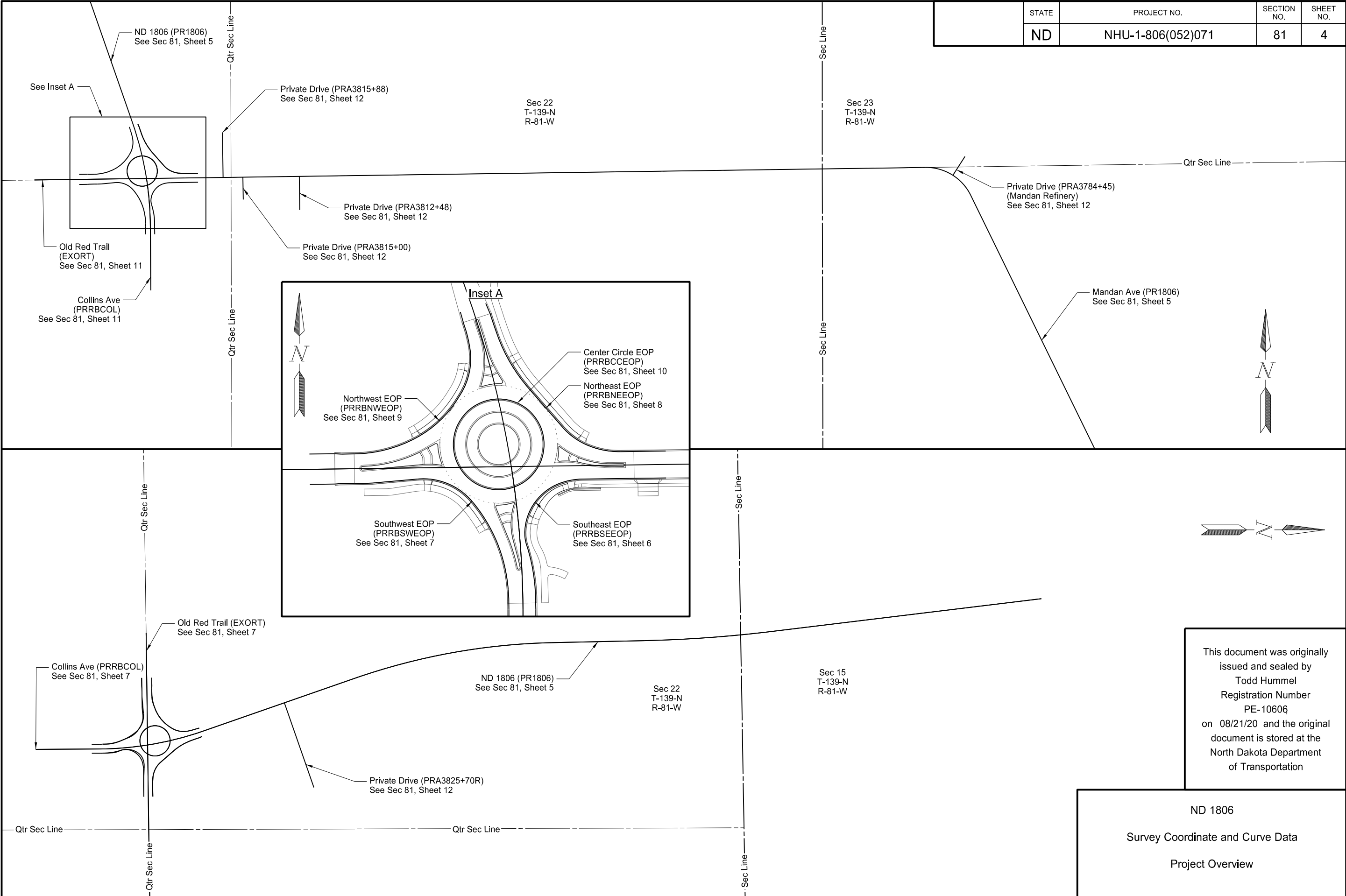
| HORIZONTAL ALIGNMENT | | | | CURVE DATA | | | HORIZONTAL ALIGNMENT | | | | REFERENCE MARKERS | | | | |
|--|-------------------------|-----------|------------|---------------------------------|-------------------------|--|--|------------|-----------|------------|--|-----------|------------|---------|--------|
| PNT | STATION | NORTHING | EASTING | ARC DEFINITION | | | PNT | STATION | NORTHING | EASTING | R Mkr # | NORTHING | EASTING | STATION | OFFSET |
| ND Highway 1806 (CHAIN SCL1806) (Cont.) | | | | ND Highway 1806 (Cont.) | | | I-94 SW Ramp | | | | I-94 SE Ramp (CHAIN EX94SER) | | | | |
| PC | 3829+38.75 | 430252.31 | 1870154.28 | Curve C217 | | | BEGIN ND 1806 | 2000+00.00 | 427027.82 | 1875453.00 | ND Highway 1806 (CHAIN SCL1806) | | | | |
| PI CUR C217 | 3833+90.80 | 430679.20 | 1870005.57 | PI Sta = 3833+90.80 | EX94SWR1 | | PC | 2002+54.67 | 427054.69 | 1875706.25 | 75 | 429540.79 | 1870432.95 | 3821+76 | 30' RT |
| PT | 3838+35.46 | 431131.14 | 1869995.52 | Delta = 17° 56' 00" (RT) | Delta = 7° 03' 55" (RT) | | PI CUR EX94SER1 | 2005+46.87 | 427085.52 | 1875996.82 | 76 | 434555.54 | 1869676.22 | 3872+76 | 28' RT |
| PC | 3842+47.81 | 431543.39 | 1869986.35 | Da = 2° 00' 00" | Da = 3° 59' 57" | | PCC | 2008+31.17 | 427000.10 | 1876276.26 | | | | | |
| PI CUR C218 | 3845+31.43 | 431826.93 | 1869980.04 | R = 2864.93' | R = 1432.69' | | PI CUR EX94SER2 | 2009+22.69 | 426973.34 | 1876363.78 | Interstate 94 (CHAIN SCL94) | | | | |
| Sec Line | (Ahd Tan) 148.18' to PI | 431974.02 | 1869962.13 | T = 452.05' | T = 88.45' | | PCC | 2010+14.18 | 426942.83 | 1876450.07 | 154 | 427487.58 | 1874982.50 | 8128+53 | 73' LT |
| PT | 3848+14.58 | 432108.47 | 1869945.77 | L = 896.71' | L = 176.67' | | PI CUR EX94SER3 | 2014+09.08 | 426811.15 | 1876822.36 | 154 | 427344.45 | 1874948.22 | 8128+57 | 74' RT |
| END | 3860+30.28 | 433315.26 | 1869798.84 | | | | END PT | 2017+98.12 | 426575.99 | 1877139.60 | | | | | |
| | | | | Curve C218 | | | I-94 SE Ramp | | | | | | | | |
| Interstate 94 (CHAIN SCL94) | | | | PI Sta = 3845+31.43 | | | EX94SER1 | | | | | | | | |
| BEGIN | 8089+66.87 | 428407.77 | 1871206.16 | Delta = 5° 40' 03" (LT) | | | PI Sta = 2005+46.87 | | | | | | | | |
| Sec Line | 8113+09.50 | 427810.64 | 1873471.40 | Da = 1° 00' 00" | | | Delta = 23° 03' 19" (RT) | | | | | | | | |
| Station Equation I 94 (SCL94) at ND 1806 (SCL1806) | | | | R = 5729.65' | | | Da = 3° 59' 57" | | | | | | | | |
| POT Interstate 94 | 8130+56.64 | 427365.31 | 1875160.83 | T = 283.62' | | | R = 1432.69' | | | | | | | | |
| POC ND 1806 | 3760+68.00 | 427365.31 | 1875160.83 | L = 566.77' | | | T = 292.20' | | | | | | | | |
| TS | 8140+09.58 | 427122.40 | 1876082.30 | | | | L = 576.50' | | | | | | | | |
| SC | 8142+29.58 | 427063.61 | 1876294.28 | Interstate 94 | | | | | | | | | | | |
| PI SCS C204 | 8152+93.34 | 426795.18 | 1877323.65 | SCS C204 | | | EX94SER2 | | | | | | | | |
| CS | 8162+37.08 | 425878.88 | 1877864.07 | PI Sta = 8152+93.34 | | | PI Sta = 2009+22.69 | | | | | | | | |
| END | 8164+57.08 | 425691.14 | 1877978.73 | Delta = 44° 33' 00" (RT) | | | Delta = 2° 28' 50" (RT) | | | | | | | | |
| | | | | Da = 2° 00' 00" | | | Da = 1° 21' 19" | | | | | | | | |
| I-94 SW Ramp (CHAIN EX94SWR) | | | | R = 2864.79' | | | R = 4227.47' | | | | | | | | |
| BEGIN | 1000+00.00 | 427711.00 | 1873637.71 | L = 2007.50' | | | T = 91.52' | | | | | | | | |
| PC | 1006+40.20 | 427532.32 | 1874252.47 | Ls = 220.00' | | | L = 183.01' | | | | | | | | |
| PI CUR EX94SWR1 | 1007+28.65 | 427507.63 | 1874337.40 | Sc = 2° 12' 00" | | | | | | | | | | | |
| PT | 1008+16.87 | 427472.69 | 1874418.65 | Ts = 1283.76' | | | EX94SER3 | | | | | | | | |
| END ND 1806 | 1019+42.83 | 427027.82 | 1875453.00 | | | | PI Sta = 2014+09.08 | | | | | | | | |
| | | | | | | | Delta = 17° 04' 07" (RT) | | | | | | | | |
| | | | | | | | Da = 2° 10' 38" | | | | | | | | |
| | | | | | | | R = 2631.50' | | | | | | | | |
| | | | | | | | T = 394.89' | | | | | | | | |
| | | | | | | | L = 783.94' | | | | | | | | |
| NOTES: Sheet 2 of 3 Control was developed from Static Network based on OPUS solutions. | | | | Date Survey Completed 8/28/2018 | | | <input type="checkbox"/> Assumed Coordinates <input checked="" type="checkbox"/> All coordinates on this sheet are Morton County ground coordinates. They are derived from the NAD83(2011) reference frame; North Dakota South Zone Combination Factor (cf) = 0.9998485 | | | | All coordinates and measurements on this document derived from the International Foot definition. INITIALIZING BENCH MARK NDGPS Stations (OPUS) <input checked="" type="checkbox"/> NAVD-88 <input type="checkbox"/> NGVD-29 <input type="checkbox"/> GEOID 09 <input type="checkbox"/> _____ <input checked="" type="checkbox"/> GEOID 12B | | | | |
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PRELIMINARY SURVEY COORDINATE AND CURVE DATA - ND 1806 - I-94 TO 27TH ST NW

| | | | |
|-------|-------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 81 | 3 |

| HORIZONTAL ALIGNMENT | | | | CURVE DATA | | US PUBLIC LAND SURVEY DATA | | | | SURVEY CONTROL POINTS | | | | | | | |
|--|------------|-----------|------------|---------------------------------|-------------------------|--|-------------|----------|---------|--|----------|---------|------|--|--------|--|--|
| PNT | STATION | NORTHING | EASTING | ARC DEFINITION | | DESC. | SEC-TWP-RGE | NORTHING | EASTING | PNT | NORTHING | EASTING | ELEV | STATION | OFFSET | | |
| | | | | | | | | | | CONTROL POINT DESCRIPTION | | | | | | | |
| I-94 NE Ramp (CHAIN EX94NER) | | | | I-94 NE Ramp | | Collins Avenue | | | | | | | | | | | |
| BEGIN PC ND 1806 | 3000+00.00 | 426897.70 | 1876834.10 | EX94NER1 | C226 | | | | | | | | | | | | |
| PI CUR EX94NER1 | 3002+10.76 | 427013.99 | 1876658.33 | PI Sta = 3002+10.76 | PI Sta = 13+93.46 | | | | | | | | | | | | |
| PCC | 3004+18.89 | 427078.63 | 1876457.73 | Delta = 15°37' 46" (RT) | Delta = 8° 32' 14" (LT) | | | | | | | | | | | | |
| PI CUR EX94NER2 | 3006+73.78 | 427156.79 | 1876215.13 | Da = 3° 43' 52" | Da = 3° 59' 57" | | | | | | | | | | | | |
| PCC | 3009+28.66 | 427231.19 | 1875971.34 | R = 1535.61' | R = 1432.69' | | | | | | | | | | | | |
| PI CUR EX94NER3 | 3011+52.97 | 427296.67 | 1875756.80 | T = 210.76' | T = 106.94' | | | | | | | | | | | | |
| PT | 3013+73.66 | 427424.58 | 1875572.54 | L = 418.89' | L = 213.48' | | | | | | | | | | | | |
| END | 3023+84.76 | 428001.15 | 1874741.94 | | | | | | | | | | | | | | |
| | | | | EX94NER2 | | | | | | | | | | | | | |
| I-94 NW Ramp (CHAIN EX94NWR) | | | | PI Sta = 3006+73.78 | | | | | | | | | | | | | |
| BEGIN | 4000+00.00 | 427953.43 | 1874765.19 | Delta = 0°53' 17" (RT) | | | | | | | | | | | | | |
| PC | 4003+73.40 | 427849.99 | 1874406.40 | Da = 0° 10' 27" | | | | | | | | | | | | | |
| PI CUR EX94NWR1 | 4007+53.25 | 427744.77 | 1874041.42 | R = 32888.81' | | | | | | | | | | | | | |
| PT | 4011+16.01 | 427834.18 | 1873672.25 | T = 254.89' | | | | | | | | | | | | | |
| Sec Line | 4013+22.84 | 427882.87 | 1873471.23 | L = 509.77' | | | | | | | | | | | | | |
| END ND 1806 | 4021+16.21 | 428069.64 | 1872700.15 | | | | | | | | | | | | | | |
| | | | | EX94NER3 | | | | | | | | | | | | | |
| Collins Avenue (CHAIN EXCOL) | | | | PI Sta = 3012+35.41 | | | | | | | | | | | | | |
| BEGIN | 10+00.00 | 428828.42 | 1870471.64 | Delta = 17° 47' 47" (LT) | | | | | | | | | | | | | |
| PC | 12+86.52 | 429114.94 | 1870469.59 | Da = 3° 59' 57" | | | | | | | | | | | | | |
| PI CUR C226 | 13+93.46 | 429221.87 | 1870468.83 | R = 1432.69' | | | | | | | | | | | | | |
| END PT 1/4 Line ND 1806/Old Red Trail | 17+42.81 | 429327.50 | 1870452.20 | T = 224.31' | | | | | | | | | | | | | |
| | | | | L = 445.00' | | | | | | | | | | | | | |
| Old Red Trail (CHAIN EXOLT) | | | | | | | | | | | | | | | | | |
| BEGIN | 100+00.00 | 429320.69 | 1869952.25 | I-94 NW Ramp | | | | | | | | | | | | | |
| END ND 1806/Collins Ave | 105+00.00 | 429327.50 | 1870452.20 | EX94NWR1 | | | | | | | | | | | | | |
| | | | | PI Sta = 4007+53.25 | | | | | | | | | | | | | |
| | | | | Delta = 29° 41' 54" (LT) | | | | | | | | | | | | | |
| | | | | Da = 3° 59' 57" | | | | | | | | | | | | | |
| | | | | R = 1432.69' | | | | | | | | | | | | | |
| | | | | T = 379.85' | | | | | | | | | | | | | |
| | | | | L = 742.61' | | | | | | | | | | | | | |
| NOTES: Sheet 3 of 3 Control was developed from Static Network based on OPUS solutions. | | | | Date Survey Completed 8/28/2018 | | <input type="checkbox"/> Assumed Coordinates <input checked="" type="checkbox"/> All coordinates on this sheet are Morton County ground coordinates. They are derived from the NAD83(2011) reference frame; North Dakota South Zone Combination Factor (cf) = 0.9998485 | | | | All coordinates and measurements on this document derived from the International Foot definition. INITIALIZING BENCH MARK NDGPS Stations (OPUS) <input checked="" type="checkbox"/> NAVD-88 <input type="checkbox"/> NGVD-29 <input type="checkbox"/> GEOID 09 <input type="checkbox"/> _____ <input checked="" type="checkbox"/> GEOID 12B | | | | This document was originally issued and sealed by Brian R. Heath Registration Number LS- 7538 , on 08/21/20 and the original document is stored at the North Dakota Department of Transportation | | | |

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 81 | 4 |



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ND 1806
 Survey Coordinate and Curve Data
 Project Overview



3850+00

3840+00

3830+00

3820+00

3780+00

3790+00

3770+00

3760+00

3810+00

3800+00

Curve Data

Beginning chain PR1806 description

Point PR18061 N 426,777.8061 E 1,875,670.5513 Sta 3752+90.20
Course from PR18061 to PC PR1806_3 N 41° 01' 42.24" W Dist 684.8379

Curve Data
Curve PR1806_3
P.I. Station 3762+78.50 N 427,523.3646 E 1,875,021.7981
Delta = 9° 05' 04.34" (RT)
Degree = 1° 29' 59.84"
Tangent = 303.4628
Length = 605.6536
Radius = 3,819.8300
External = 12.0352
Long Chord = 605.0194
Mid. Ord. = 11.9974
P.C. Station 3759+75.04 N 427,294.4370 E 1,875,221.0011
P.T. Station 3765+80.69 N 427,780.8731 E 1,874,861.2395
C.C. N 429,801.8996 E 1,878,102.6209
Back = N 41° 01' 42.24" W
Ahead = N 31° 56' 37.90" W
Chord Bear = N 36° 29' 10.07" W

Curve Data
Curve PR1806_4
P.I. Station 3766+85.09 N 427,869.4613 E 1,874,806.0041
Delta = 6° 00' 13.18" (RT)
Degree = 2° 52' 40.88"
Tangent = 104.3974
Length = 208.6037
Radius = 1,990.8034
External = 2.7354
Long Chord = 208.5083
Mid. Ord. = 2.7317
P.C. Station 3765+80.69 N 427,780.8731 E 1,874,861.2395
P.T. Station 3767+89.30 N 427,963.3408 E 1,874,760.3373
C.C. N 428,834.1834 E 1,876,550.5694
Back = N 31° 56' 37.90" W
Ahead = N 25° 56' 24.71" W
Chord Bear = N 28° 56' 31.30" W

Course from PT PR1806_4 to PR18067 N 25° 56' 24.71" W Dist 88.6599
Point PR18067 N 428,043.0683 E 1,874,721.5545 Sta 3768+77.96
Course from PR18067 to PC PR1806_9 N 26° 04' 03.26" W Dist 1,347.4803

Curve Data
Curve PR1806_9
P.I. Station 3783+64.92 N 429,378.7727 E 1,874,068.1368
Delta = 64° 45' 02.31" (LT)
Degree = 26° 02' 36.73"
Tangent = 139.4834
Length = 248.6246
Radius = 220.0000
External = 40.4911
Long Chord = 235.6038
Mid. Ord. = 34.1971
P.C. Station 3782+25.44 N 429,253.4781 E 1,874,129.4301
P.T. Station 3784+74.06 N 429,376.7809 E 1,873,928.6677
C.C. N 429,156.8033 E 1,873,931.8093
Back = N 26° 04' 03.26" W
Ahead = S 89° 10' 54.43" W
Chord Bear = N 58° 26' 34.41" W

Course from PT PR1806_9 to PR180612 S 89° 10' 54.43" W Dist 74.9099
Point PR180612 N 429,375.7112 E 1,873,853.7654 Sta 3785+48.97
Course from PR180612 to STAEQU1 S 89° 10' 54.43" W Dist 20.8264
Equation: Sta 3785+69.80 (BK) = Sta 3785+48.97 (AH)
Begin Region 2

End Region 1
Begin Region 2

Point STAEQU1 N 429,375.4138 E 1,873,832.9412 Sta 3785+48.97
Course from STAEQU1 to PR180616 S 89° 10' 54.43" W Dist 365.3470
Point PR180616 N 429,370.1966 E 1,873,467.6314 Sta 3789+14.32
Course from PR180616 to PR180618 S 89° 11' 04.42" W Dist 2,638.1928
Point PR180618 N 429,332.6509 E 1,870,829.7058 Sta 3815+52.51
Course from PR180618 to PC PR1806_20 S 89° 13' 08.36" W Dist 377.5396

Curve Data
Curve PR1806_20
P.I. Station 3820+58.68 N 429,454.5737 E 1,870,432.1980
Delta = 10° 15' 39.84" (LT)
Degree = 3° 59' 57.03"
Tangent = 128.6338
Length = 256.5796
Radius = 1,432.6900
External = 5.7631
Long Chord = 256.2369
Mid. Ord. = 5.7400
P.C. Station 3819+30.05 N 429,327.5047 E 1,870,452.2013
P.T. Station 3821+86.63 N 429,576.0471 E 1,870,389.8793
C.C. N 429,104.7124 E 1,869,036.9401
Back = N 8° 56' 46.18" W
Ahead = N 19° 12' 26.02" W
Chord Bear = N 14° 04' 36.10" W

Course from PT PR1806_20 to PC PR1806_23 N 19° 12' 26.02" W Dist 716.1252

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Curve Data
Curve PR1806_23
P.I. Station 3833+54.81 N 430,679.1970 E 1,870,005.5658
Delta = 17° 55' 59.83" (RT)
Degree = 1° 59' 59.63"
Tangent = 452.0514
Length = 896.7098
Radius = 2,864.9344
External = 35.4448
Long Chord = 893.0540
Mid. Ord. = 35.0117
P.C. Station 3829+02.75 N 430,252.3091 E 1,870,154.2843
P.T. Station 3837+99.46 N 431,131.1366 E 1,869,995.5155
C.C. N 431,194.8318 E 1,872,859.7417
Back = N 19° 12' 26.02" W
Ahead = N 1° 16' 26.19" W
Chord Bear = N 10° 14' 26.11" W

Course from PT PR1806_23 to PC PR1806_26 N 1° 16' 26.19" W Dist 412.3528

Curve Data
Curve PR1806_26
P.I. Station 3844+95.43 N 431,826.9328 E 1,869,980.0422
Delta = 5° 40' 03.39" (LT)
Degree = 0° 59' 59.95"
Tangent = 283.6154
Length = 566.7681
Radius = 5,729.6507
External = 7.0151
Long Chord = 566.5371
Mid. Ord. = 7.0065
P.C. Station 3842+11.82 N 431,543.3876 E 1,869,986.3478
P.T. Station 3847+78.58 N 432,108.4693 E 1,869,945.7654
C.C. N 431,416.0022 E 1,864,258.1133
Back = N 1° 16' 26.19" W
Ahead = N 6° 56' 29.59" W
Chord Bear = N 4° 06' 27.89" W

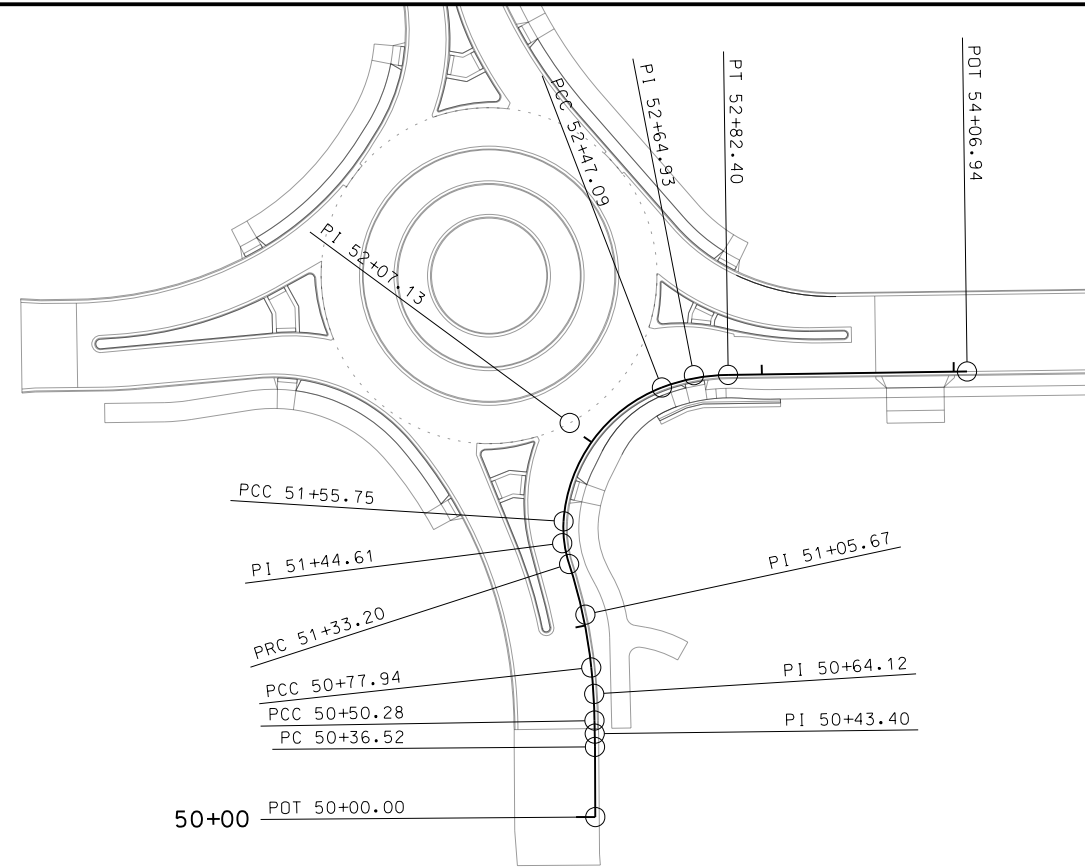
Course from PT PR1806_26 to PR180628 N 6° 56' 29.59" W Dist 1,215.7000

Point PR180628 N 433,315.2581 E 1,869,798.8398 Sta 3859+94.28

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ND 1806
Survey Coordinate and Curve Data
PR1806

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|-------|-------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 81 | 6 |



Curve PRRBSEEOP_3
 P.I. = 50+43.40 Simple Curve
 Delta = 0° 32' 35.13" (LT)
 Da = 3° 56' 48.60"
 R = 1,451.69
 T = 6.88
 L = 13.76

Curve PRRBSEEOP_6
 P.I. = 51+44.61 Simple Curve
 Delta = 21° 31' 35.54" (RT)
 Da = 95° 29' 34.67"
 R = 60.00
 T = 11.41
 L = 22.54

Curve PRRBSEEOP_4
 P.I. = 50+64.12 Simple Curve
 Delta = 5° 16' 56.15" (LT)
 Da = 19° 05' 54.93"
 R = 300.00
 T = 13.84
 L = 27.66

Curve PRRBSEEOP_7
 P.I. = 52+07.13 Simple Curve
 Delta = 65° 25' 17.83" (RT)
 Da = 71° 37' 11.01"
 R = 80.00
 T = 51.38
 L = 91.35

Curve PRRBSEEOP_5
 P.I. = 51+05.67 Simple Curve
 Delta = 11° 43' 37.11" (LT)
 Da = 21° 13' 14.37"
 R = 270.00
 T = 27.73
 L = 55.26

Curve PRRBSEEOP_8
 P.I. = 52+64.93 Simple Curve
 Delta = 20° 13' 55.36" (RT)
 Da = 57° 17' 45.72"
 R = 100.00
 T = 17.84
 L = 35.31

Beginning chain PRRBSEEOP description

Point PRRBSEEOP1 N 429,078.5490 E 1,870,488.8538 Sta 50+00.00

Course from PRRBSEEOP1 to PC PRRBSEEOP_3 N 0° 24' 31.98" W Dist 36.5240

Curve Data

Curve PRRBSEEOP_3
 P.I. Station 50+43.40 N 429,121.9521 E 1,870,488.5441
 Delta = 0° 32' 35.13" (LT)
 Degree = 3° 56' 48.60"
 Tangent = 6.8801
 Length = 13.7602
 Radius = 1,451.6901
 External = 0.0163
 Long Chord = 13.7601
 Mid. Ord. = 0.0163
 P.C. Station 50+36.52 N 429,115.0721 E 1,870,488.5932
 P.T. Station 50+50.28 N 429,128.8313 E 1,870,488.4298
 C.C. N 429,104.7124 E 1,869,036.9400
 Back = N 0° 24' 31.98" W
 Ahead = N 0° 57' 07.11" W
 Chord Bear = N 0° 40' 49.54" W

Curve Data

Curve PRRBSEEOP_4
 P.I. Station 50+64.12 N 429,142.6681 E 1,870,488.1998
 Delta = 5° 16' 56.15" (LT)
 Degree = 19° 05' 54.93"
 Tangent = 13.8387
 Length = 27.6579
 Radius = 300.0000
 External = 0.3190
 Long Chord = 27.6481
 Mid. Ord. = 0.3187
 P.C. Station 50+50.28 N 429,128.8313 E 1,870,488.4298
 P.T. Station 50+77.94 N 429,156.4250 E 1,870,486.6970
 C.C. N 429,123.8470 E 1,870,188.4712
 Back = N 0° 57' 07.11" W
 Ahead = N 6° 14' 03.26" W
 Chord Bear = N 3° 35' 35.18" W

Curve Data

Curve PRRBSEEOP_5
 P.I. Station 51+05.67 N 429,183.9889 E 1,870,483.6860
 Delta = 11° 43' 37.11" (LT)
 Degree = 21° 13' 14.37"
 Tangent = 27.7279
 Length = 55.2621
 Radius = 270.0000
 External = 1.4200
 Long Chord = 55.1657
 Mid. Ord. = 1.4126
 P.C. Station 50+77.94 N 429,156.4250 E 1,870,486.6970
 P.T. Station 51+33.20 N 429,210.3655 E 1,870,475.1354
 C.C. N 429,127.1048 E 1,870,218.2938
 Back = N 6° 14' 03.26" W
 Ahead = N 17° 57' 40.37" W
 Chord Bear = N 12° 05' 51.81" W

Curve Data

Curve PRRBSEEOP_6
 P.I. Station 51+44.61 N 429,221.2154 E 1,870,471.6182
 Delta = 21° 31' 35.54" (RT)
 Degree = 95° 29' 34.67"
 Tangent = 11.4058
 Length = 22.5425
 Radius = 60.0000
 External = 1.0745
 Long Chord = 22.4102
 Mid. Ord. = 1.0556
 P.C. Station 51+33.20 N 429,210.3655 E 1,870,475.1354
 P.T. Station 51+55.75 N 429,232.5991 E 1,870,472.3275
 C.C. N 429,228.8679 E 1,870,532.2114
 Back = N 17° 57' 40.37" W
 Ahead = N 3° 33' 55.17" E
 Chord Bear = N 7° 11' 52.60" W

Curve Data

Curve PRRBSEEOP_7
 P.I. Station 52+07.13 N 429,283.8801 E 1,870,475.5227
 Delta = 65° 25' 17.83" (RT)
 Degree = 71° 37' 11.01"
 Tangent = 51.3804
 Length = 91.3458
 Radius = 80.0000
 External = 15.0786
 Long Chord = 86.4639
 Mid. Ord. = 12.6873
 P.C. Station 51+55.75 N 429,232.5991 E 1,870,472.3275
 P.T. Station 52+47.09 N 429,302.3041 E 1,870,523.4862
 C.C. N 429,227.6242 E 1,870,552.1727
 Back = N 3° 33' 55.17" E
 Ahead = N 68° 59' 13.00" E
 Chord Bear = N 36° 16' 34.09" E

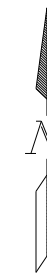
Curve Data

Curve PRRBSEEOP_8
 P.I. Station 52+64.93 N 429,308.7017 E 1,870,540.1412
 Delta = 20° 13' 55.36" (RT)
 Degree = 57° 17' 45.72"
 Tangent = 17.8415
 Length = 35.3114
 Radius = 99.9996
 External = 1.5791
 Long Chord = 35.1283
 Mid. Ord. = 1.5546
 P.C. Station 52+47.09 N 429,302.3041 E 1,870,523.4862
 P.T. Station 52+82.40 N 429,308.9449 E 1,870,557.9810
 C.C. N 429,208.9546 E 1,870,559.3441
 Back = N 68° 59' 13.00" E
 Ahead = N 89° 13' 08.36" E
 Chord Bear = N 79° 06' 10.68" E

Course from PT PRRBSEEOP_8 to PRRBSEEOP10 N 89° 13' 08.36" E Dist 124.5331

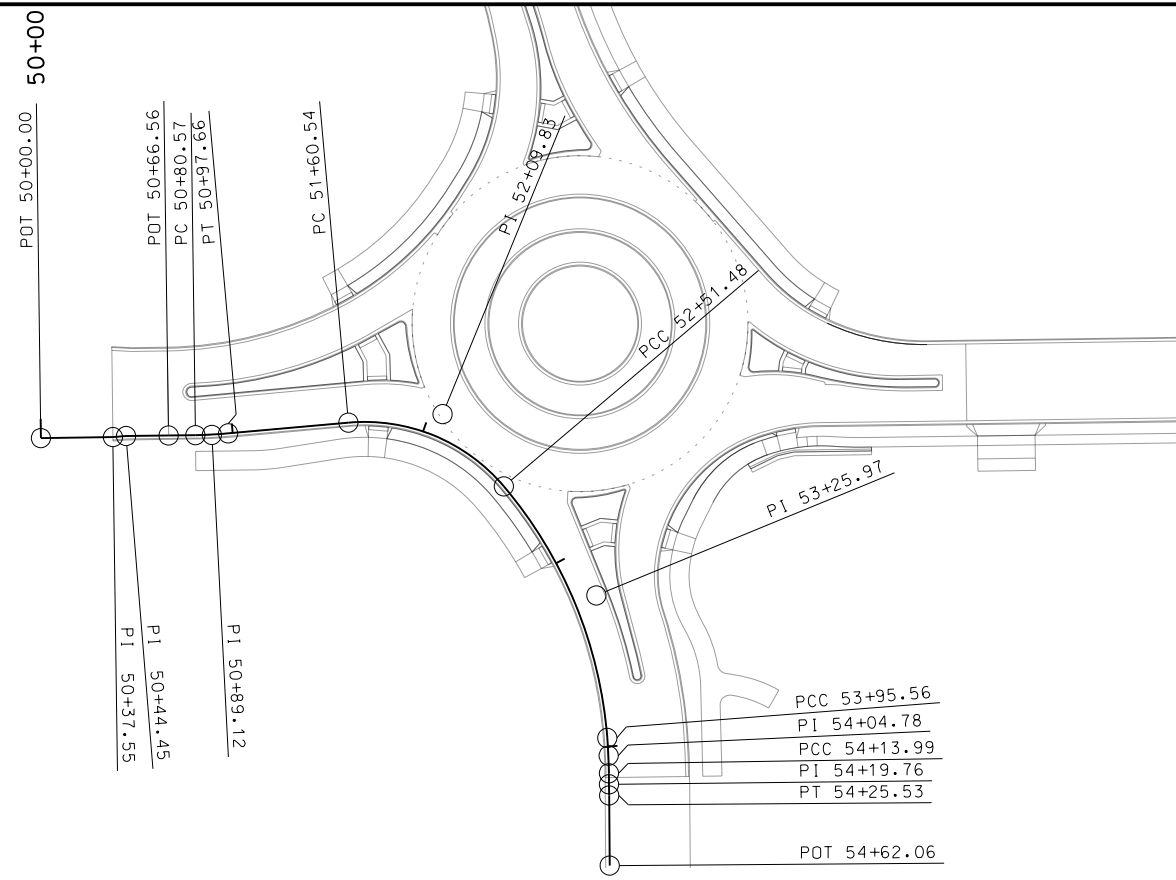
Point PRRBSEEOP10 N 429,310.6424 E 1,870,682.5026 Sta 54+06.94

Ending chain PRRBSEEOP description



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ND 1806
 Survey Coordinate and Curve Data
 PRRBSEEOP



Curve PRRBSWEOP_9
 P.I. = 50+89.12 Simple Curve
 Delta = 4° 21' 05.05" (LT)
 Da = 25° 27' 53.25"
 R = 225.00
 T = 8.55
 L = 17.09

Curve PRRBSWEOP_14
 P.I. = 54+04.78 Simple Curve
 Delta = 3° 31' 08.48" (RT)
 Da = 19° 05' 54.94"
 R = 300.00
 T = 9.22
 L = 18.43

Curve PRRBSWEOP_12
 P.I. = 52+09.83 Simple Curve
 Delta = 54° 50' 33.34" (RT)
 Da = 60° 18' 40.85"
 R = 95.00
 T = 49.29
 L = 90.93

Curve PRRBSWEOP_15
 P.I. = 54+19.76 Simple Curve
 Delta = 0° 28' 07.21" (RT)
 Da = 4° 03' 31.20"
 R = 1,411.69
 T = 5.77
 L = 11.55

Curve PRRBSWEOP_13
 P.I. = 53+25.97 Simple Curve
 Delta = 35° 53' 35.67" (RT)
 Da = 24° 54' 40.35"
 R = 230.00
 T = 74.49
 L = 144.08

Beginning chain PRRBSWEOP description
 =====
 Point PRRBSWEOP1 N 429,300.9588 E 1,870,152.5353 Sta 50+00.00
 Course from PRRBSWEOP1 to PRRBSWEOP3 N 89° 13' 08.36" E Dist 37.5499
 Point PRRBSWEOP3 N 429,301.4706 E 1,870,190.0817 Sta 50+37.55
 Course from PRRBSWEOP3 to PRRBSWEOP5 N 85° 24' 17.69" E Dist 6.8976
 Point PRRBSWEOP5 N 429,302.0232 E 1,870,196.9571 Sta 50+44.45
 Course from PRRBSWEOP5 to PRRBSWEOP7 N 89° 13' 08.36" E Dist 22.1091
 Point PRRBSWEOP7 N 429,302.3246 E 1,870,219.0641 Sta 50+66.56
 Course from PRRBSWEOP7 to PC PRRBSWEOP_9 N 89° 13' 08.36" E Dist 14.0161

Curve Data

 Curve PRRBSWEOP_12
 P.I. Station 52+09.83 N 429,313.4314 E 1,870,361.8615
 Delta = 54° 50' 33.34" (RT)
 Degree = 60° 18' 40.85"
 Tangent = 49.2881
 Length = 90.9325
 Radius = 95.0000
 External = 12.0249
 Long Chord = 87.5007
 Mid. Ord. = 10.6738
 P.C. Station 51+60.54 N 429,309.0222 E 1,870,312.7710
 P.T. Station 52+51.48 N 429,275.8352 E 1,870,393.7339
 C.C. N 429,214.4031 E 1,870,321.2695
 Back = N 84° 52' 03.32" E
 Ahead = S 40° 17' 23.35" E
 Chord Bear = S 67° 42' 40.01" E

Curve Data

 Curve PRRBSWEOP_14
 P.I. Station 54+04.78 N 429,135.5479 E 1,870,448.3234
 Delta = 3° 31' 08.48" (RT)
 Degree = 19° 05' 54.94"
 Tangent = 9.2157
 Length = 18.4256
 Radius = 300.0000
 External = 0.1415
 Long Chord = 18.4227
 Mid. Ord. = 0.1414
 P.C. Station 53+95.56 N 429,144.7364 E 1,870,447.6169
 P.T. Station 54+13.99 N 429,126.3333 E 1,870,448.4646
 C.C. N 429,121.7386 E 1,870,148.4997
 Back = S 4° 23' 47.67" E
 Ahead = S 0° 52' 39.19" E
 Chord Bear = S 2° 38' 13.43" E

Curve Data

 Curve PRRBSWEOP_9
 P.I. Station 50+89.12 N 429,302.6321 E 1,870,241.6262
 Delta = 4° 21' 05.05" (LT)
 Degree = 25° 27' 53.25"
 Tangent = 8.5481
 Length = 17.0879
 Radius = 225.0000
 External = 0.1623
 Long Chord = 17.0838
 Mid. Ord. = 0.1622
 P.C. Station 50+80.57 N 429,302.5156 E 1,870,233.0789
 P.T. Station 50+97.66 N 429,303.3968 E 1,870,250.1400
 C.C. N 429,527.4947 E 1,870,230.0120
 Back = N 89° 13' 08.36" E
 Ahead = N 84° 52' 03.32" E
 Chord Bear = N 87° 02' 35.84" E

Curve Data

 Curve PRRBSWEOP_13
 P.I. Station 53+25.97 N 429,219.0119 E 1,870,441.9062
 Delta = 35° 53' 35.67" (RT)
 Degree = 24° 54' 40.35"
 Tangent = 74.4947
 Length = 144.0847
 Radius = 230.0000
 External = 11.7632
 Long Chord = 141.7402
 Mid. Ord. = 11.1909
 P.C. Station 52+51.48 N 429,275.8352 E 1,870,393.7339
 P.T. Station 53+95.56 N 429,144.7364 E 1,870,447.6169
 C.C. N 429,127.1048 E 1,870,218.2938
 Back = S 40° 17' 23.35" E
 Ahead = S 4° 23' 47.67" E
 Chord Bear = S 22° 20' 35.51" E

Curve Data

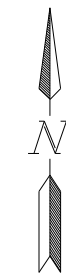
 Curve PRRBSWEOP_15
 P.I. Station 54+19.76 N 429,120.5602 E 1,870,448.5530
 Delta = 0° 28' 07.21" (RT)
 Degree = 4° 03' 31.20"
 Tangent = 5.7737
 Length = 11.5474
 Radius = 1,411.6900
 External = 0.0118
 Long Chord = 11.5474
 Mid. Ord. = 0.0118
 P.C. Station 54+13.99 N 429,126.3333 E 1,870,448.4646
 P.T. Station 54+25.53 N 429,114.7867 E 1,870,448.5942
 C.C. N 429,104.7124 E 1,869,036.9401
 Back = S 0° 52' 39.19" E
 Ahead = S 0° 24' 31.98" E
 Chord Bear = S 0° 38' 35.58" E

Course from PT PRRBSWEOP_9 to PC PRRBSWEOP_12 N 84° 52' 03.32" E Dist 62.8831

Course from PT PRRBSWEOP_15 to PRRBSWEOP17 S 0° 24' 31.98" E Dist 36.5240

Point PRRBSWEOP17 N 429,078.2636 E 1,870,448.8548 Sta 54+62.06

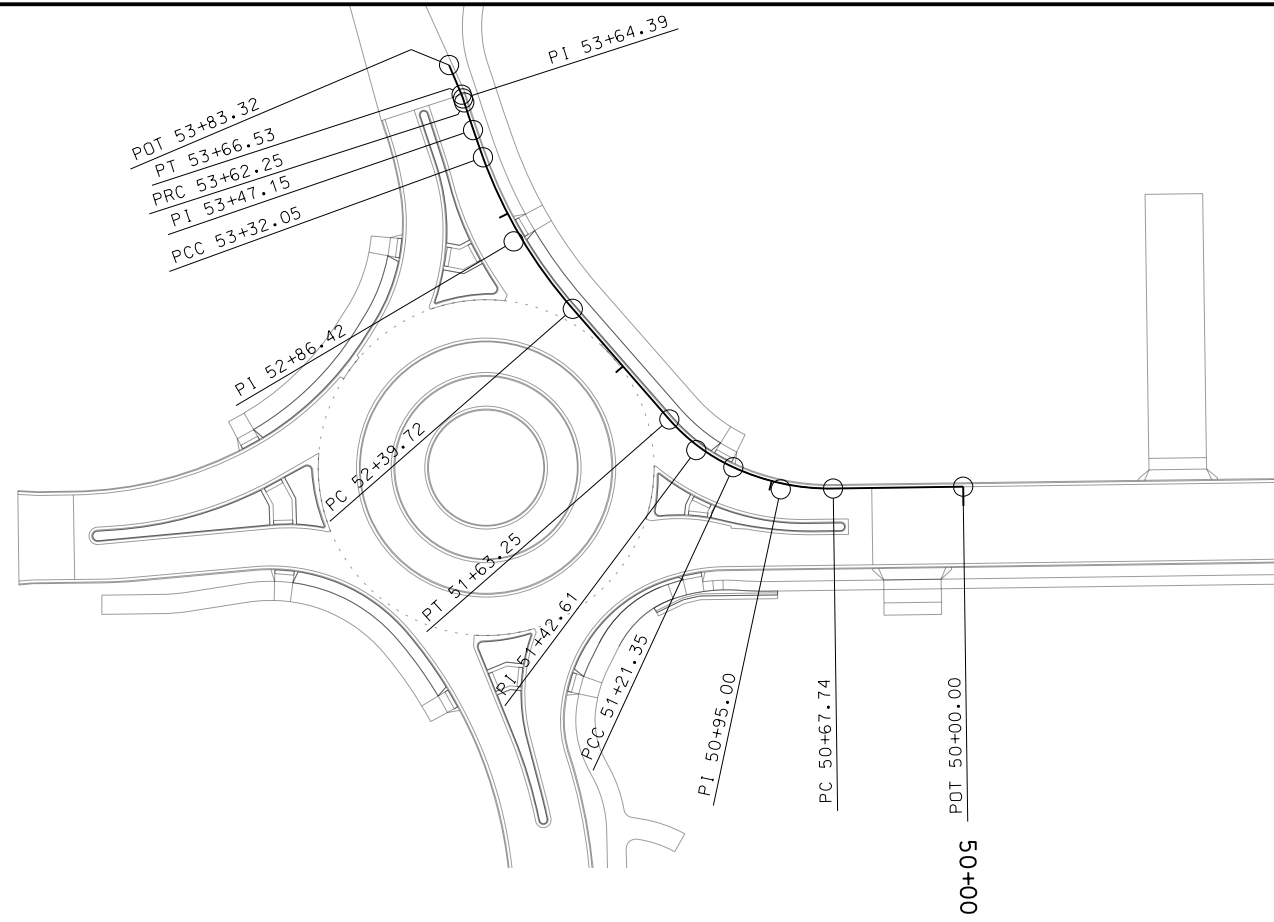
=====
 Ending chain PRRBSWEOP description



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ND 1806
 Survey Coordinate and Curve Data
 PRRBSWEOP

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Curve PRRBNEEOP_3
 PI = 50+95.00 Simple Curve
 Delta = 25° 35' 45.89" (RT)
 Da = 47° 44' 47.34"
 R = 120.00
 T = 27.26
 L = 53.61

Curve PRRBNEEOP_8
 PI = 53+47.15 Simple Curve
 Delta = 2° 09' 46.60" (RT)
 Da = 7° 09' 43.10"
 R = 800.00
 T = 15.10
 L = 30.20

Curve PRRBNEEOP_4
 PI = 51+42.61 Simple Curve
 Delta = 24° 00' 27.53" (RT)
 Da = 57° 17' 44.81"
 R = 100.00
 T = 21.26
 L = 41.90

Curve PRRBNEEOP_9
 PI = 53+64.39 Simple Curve
 Delta = 0° 10' 06.04" (LT)
 Da = 3° 56' 14.42"
 R = 1,455.19
 T = 2.14
 L = 4.28

Curve PRRBNEEOP_7
 PI = 52+86.42 Simple Curve
 Delta = 21° 09' 37.85" (RT)
 Da = 22° 55' 05.92"
 R = 250.00
 T = 46.70
 L = 92.33

Course from PT PRRBNEEOP_4 to PC PRRBNEEOP_7 N 41° 10' 38.22" W Dist 76.4717

Beginning chain PRRBNEEOP description
 =====

Point PRRBNEEOP1 N 429,350.6386 E 1,870,681.9574 Sta 50+00.00
 Course from PRRBNEEOP1 to PC PRRBNEEOP_3 S 89° 13' 08.36" W Dist 67.7389

Curve Data

 Curve PRRBNEEOP_3
 P.I. Station 50+95.00 N 429,349.3438 E 1,870,586.9683
 Delta = 25° 35' 45.89" (RT)
 Degree = 47° 44' 47.34"
 Tangent = 27.2590
 Length = 53.6083
 Radius = 120.0000
 External = 3.0571
 Long Chord = 53.1636
 Mid. Ord. = 2.9812
 P.C. Station 50+67.74 N 429,349.7153 E 1,870,614.2248
 P.T. Station 51+21.35 N 429,360.7841 E 1,870,562.2262
 C.C. N 429,469.7042 E 1,870,612.5891
 Back = S 89° 13' 08.36" W
 Ahead = N 65° 11' 05.75" W
 Chord Bear = N 77° 58' 58.69" W

Curve Data

 Curve PRRBNEEOP_7
 P.I. Station 52+86.42 N 429,478.4179 E 1,870,447.8344
 Delta = 21° 09' 37.85" (RT)
 Degree = 22° 55' 05.92"
 Tangent = 46.6971
 Length = 92.3302
 Radius = 250.0000
 External = 4.3238
 Long Chord = 91.8063
 Mid. Ord. = 4.2503
 P.C. Station 52+39.72 N 429,443.2701 E 1,870,478.5794
 P.T. Station 53+32.05 N 429,522.2941 E 1,870,431.8503
 C.C. N 429,607.8679 E 1,870,666.7484
 Back = N 41° 10' 38.22" W
 Ahead = N 20° 01' 00.37" W
 Chord Bear = N 30° 35' 49.29" W

Curve Data

 Curve PRRBNEEOP_9
 P.I. Station 53+64.39 N 429,552.8934 E 1,870,421.3954
 Delta = 0° 10' 06.04" (LT)
 Degree = 3° 56' 14.41"
 Tangent = 2.1378
 Length = 4.2756
 Radius = 1,455.1911
 External = 0.0016
 Long Chord = 4.2756
 Mid. Ord. = 0.0016
 P.C. Station 53+62.25 N 429,550.8585 E 1,870,422.0508
 P.T. Station 53+66.53 N 429,554.9263 E 1,870,420.7340
 C.C. N 429,104.7121 E 1,869,036.9391
 Back = N 17° 51' 13.77" W
 Ahead = N 18° 01' 19.80" W
 Chord Bear = N 17° 56' 16.78" W

Course from PT PRRBNEEOP_9 to PRRBNEEOP11 N 23° 01' 16.69" W Dist 16.7959

Point PRRBNEEOP11 N 429,570.3845 E 1,870,414.1656 Sta 53+83.32

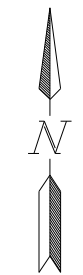
Ending chain PRRBNEEOP description
 =====

Curve Data

 Curve PRRBNEEOP_4
 P.I. Station 51+42.61 N 429,369.7078 E 1,870,542.9268
 Delta = 24° 00' 27.53" (RT)
 Degree = 57° 17' 44.81"
 Tangent = 21.2626
 Length = 41.9012
 Radius = 100.0000
 External = 2.2355
 Long Chord = 41.5954
 Mid. Ord. = 2.1866
 P.C. Station 51+21.35 N 429,360.7841 E 1,870,562.2262
 P.T. Station 51+63.25 N 429,385.7117 E 1,870,528.9277
 C.C. N 429,451.5508 E 1,870,604.1953
 Back = N 65° 11' 05.75" W
 Ahead = N 41° 10' 38.22" W
 Chord Bear = N 53° 10' 51.98" W

Curve Data

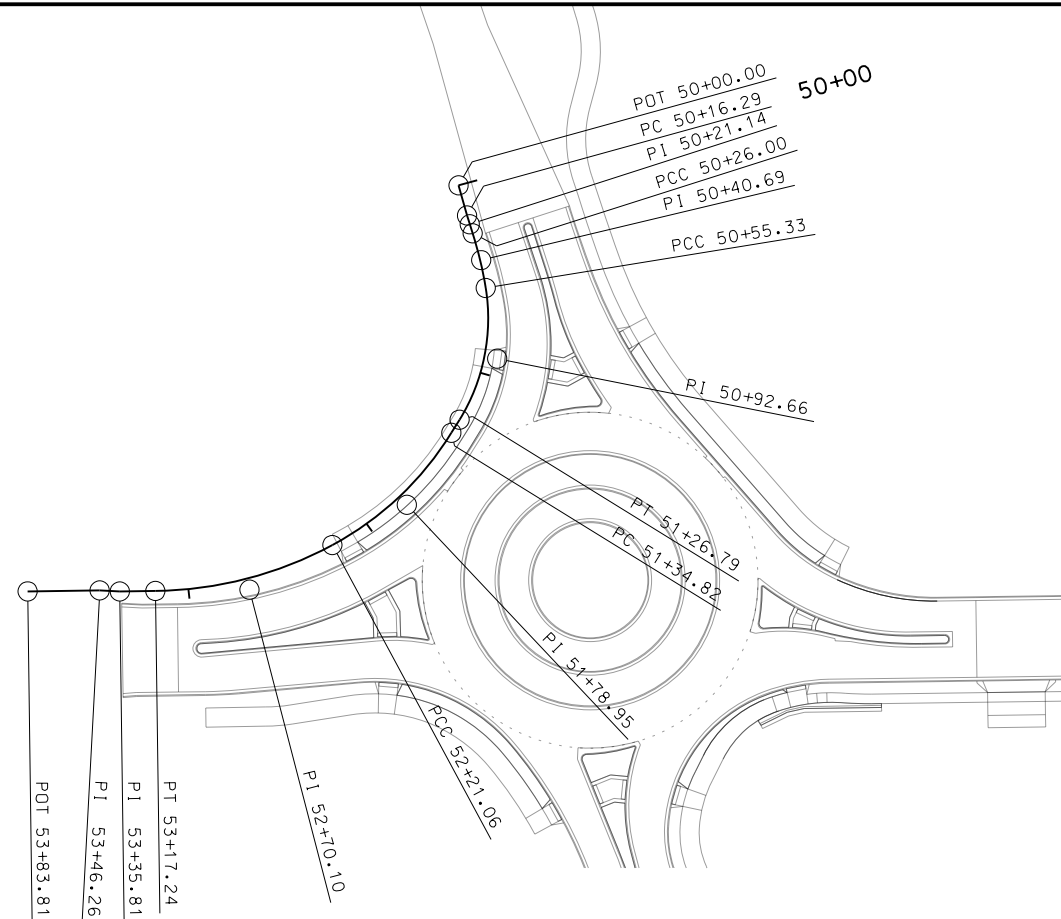
 Curve PRRBNEEOP_8
 P.I. Station 53+47.15 N 429,536.4838 E 1,870,426.6809
 Delta = 2° 09' 46.60" (RT)
 Degree = 7° 09' 43.10"
 Tangent = 15.1020
 Length = 30.2004
 Radius = 800.0000
 External = 0.1425
 Long Chord = 30.1986
 Mid. Ord. = 0.1425
 P.C. Station 53+32.05 N 429,522.2941 E 1,870,431.8503
 P.T. Station 53+62.25 N 429,550.8585 E 1,870,422.0508
 C.C. N 429,796.1302 E 1,871,183.5242
 Back = N 20° 01' 00.37" W
 Ahead = N 17° 51' 13.77" W
 Chord Bear = N 18° 56' 07.07" W



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ND 1806
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 PRRBNEEOP

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Curve PRRBNWEOP_3
 P.I. = 50+21.14 Simple Curve
 Delta = 0° 23' 36.59" (RT)
 Da = 4° 03' 15.69"
 R = 1,413.19
 T = 4.85
 L = 9.71

Curve PRRBNWEOP_8
 P.I. = 51+78.95 Simple Curve
 Delta = 29° 56' 42.16" (RT)
 Da = 34° 43' 28.97"
 R = 165.00
 T = 44.13
 L = 86.24

Curve PRRBNWEOP_4
 P.I. = 50+40.69 Simple Curve
 Delta = 8° 24' 15.43" (RT)
 Da = 28° 38' 52.40"
 R = 200.00
 T = 14.69
 L = 29.34

Curve PRRBNWEOP_9
 P.I. = 52+70.10 Simple Curve
 Delta = 27° 33' 20.17" (RT)
 Da = 28° 38' 52.40"
 R = 200.00
 T = 49.04
 L = 96.19

Curve PRRBNWEOP_5
 P.I. = 50+92.66 Simple Curve
 Delta = 40° 56' 33.82" (RT)
 Da = 57° 17' 44.81"
 R = 100.00
 T = 37.33
 L = 71.46

Beginning chain PRRBNWEOP description

Point PRRBNWEOP1 N 429,557.6389 E 1,870,376.4703 Sta 50+00.00
 Course from PRRBNWEOP1 to PC PRRBNWEOP_3 S 15° 23' 35.35" E Dist 16.2912

Curve Data

Curve PRRBNWEOP_3
 P.I. Station 50+21.14 N 429,537.3174 E 1,870,382.2960
 Delta = 0° 23' 36.59" (RT)
 Degree = 4° 03' 15.69"
 Tangent = 4.8528
 Length = 9.7055
 Radius = 1,413.1900
 External = 0.0083
 Long Chord = 9.7055
 Mid. Ord. = 0.0083
 P.C. Station 50+16.29 N 429,541.9321 E 1,870,380.7946
 P.T. Station 50+26.00 N 429,532.6925 E 1,870,383.7657
 C.C. N 429,104.7124 E 1,869,036.9401
 Back = S 18° 01' 19.80" E
 Ahead = S 17° 37' 43.22" E
 Chord Bear = S 17° 49' 31.51" E

Curve Data

Curve PRRBNWEOP_4
 P.I. Station 50+40.69 N 429,518.6880 E 1,870,388.2159
 Delta = 8° 24' 15.43" (RT)
 Degree = 28° 38' 52.40"
 Tangent = 14.6946
 Length = 29.3365
 Radius = 200.0000
 External = 0.5391
 Long Chord = 29.3102
 Mid. Ord. = 0.5377
 P.C. Station 50+26.00 N 429,532.6925 E 1,870,383.7657
 P.T. Station 50+55.33 N 429,504.1834 E 1,870,390.5714
 C.C. N 429,472.1232 E 1,870,193.1578
 Back = S 17° 37' 43.22" E
 Ahead = S 9° 13' 27.79" E
 Chord Bear = S 13° 25' 35.50" E

Curve Data

Curve PRRBNWEOP_5
 P.I. Station 50+92.66 N 429,467.3347 E 1,870,396.5557
 Delta = 40° 56' 33.82" (RT)
 Degree = 57° 17' 44.81"
 Tangent = 37.3315
 Length = 71.4585
 Radius = 100.0000
 External = 6.7410
 Long Chord = 69.9478
 Mid. Ord. = 6.3153
 P.C. Station 50+55.33 N 429,504.1834 E 1,870,390.5714
 P.T. Station 51+26.79 N 429,435.5789 E 1,870,376.9289
 C.C. N 429,488.1533 E 1,870,291.8646
 Back = S 9° 13' 27.79" E
 Ahead = S 31° 43' 06.03" W
 Chord Bear = S 11° 14' 49.12" W

Course from PT PRRBNWEOP_5 to PC PRRBNWEOP_8 S 31° 43' 06.03" W Dist 8.0302

Curve Data

Curve PRRBNWEOP_8
 P.I. Station 51+78.95 N 429,391.2119 E 1,870,349.5077
 Delta = 29° 56' 42.16" (RT)
 Degree = 34° 43' 28.97"
 Tangent = 44.1268
 Length = 86.2355
 Radius = 165.0000
 External = 5.7986
 Long Chord = 85.2574
 Mid. Ord. = 5.6018
 P.C. Station 51+34.82 N 429,428.7480 E 1,870,372.7071
 P.T. Station 52+21.06 N 429,370.2671 E 1,870,310.6684
 C.C. N 429,515.4958 E 1,870,232.3510
 Back = S 31° 43' 06.03" W
 Ahead = S 61° 39' 48.19" W
 Chord Bear = S 46° 41' 27.11" W

Curve Data

Curve PRRBNWEOP_9
 P.I. Station 52+70.10 N 429,346.9890 E 1,870,267.5024
 Delta = 27° 33' 20.17" (RT)
 Degree = 28° 38' 52.40"
 Tangent = 49.0426
 Length = 96.1872
 Radius = 200.0000
 External = 5.9252
 Long Chord = 95.2629
 Mid. Ord. = 5.7547
 P.C. Station 52+21.06 N 429,370.2671 E 1,870,310.6684
 P.T. Station 53+17.24 N 429,346.3205 E 1,870,218.4644
 C.C. N 429,546.3019 E 1,870,215.7382
 Back = S 61° 39' 48.19" W
 Ahead = S 89° 13' 08.36" W
 Chord Bear = S 75° 26' 28.28" W

Course from PT PRRBNWEOP_9 to PRRBNWEOP12 S 89° 13' 08.36" W Dist 18.5643

Point PRRBNWEOP12 N 429,346.0674 E 1,870,199.9018 Sta 53+35.81

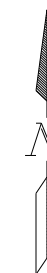
Course from PRRBNWEOP12 to PRRBNWEOP14 N 86° 58' 00.97" W Dist 10.4502

Point PRRBNWEOP14 N 429,346.6204 E 1,870,189.4662 Sta 53+46.26

Course from PRRBNWEOP14 to PRRBNWEOP15 S 89° 13' 08.36" W Dist 37.5499

Point PRRBNWEOP15 N 429,346.1085 E 1,870,151.9198 Sta 53+83.81

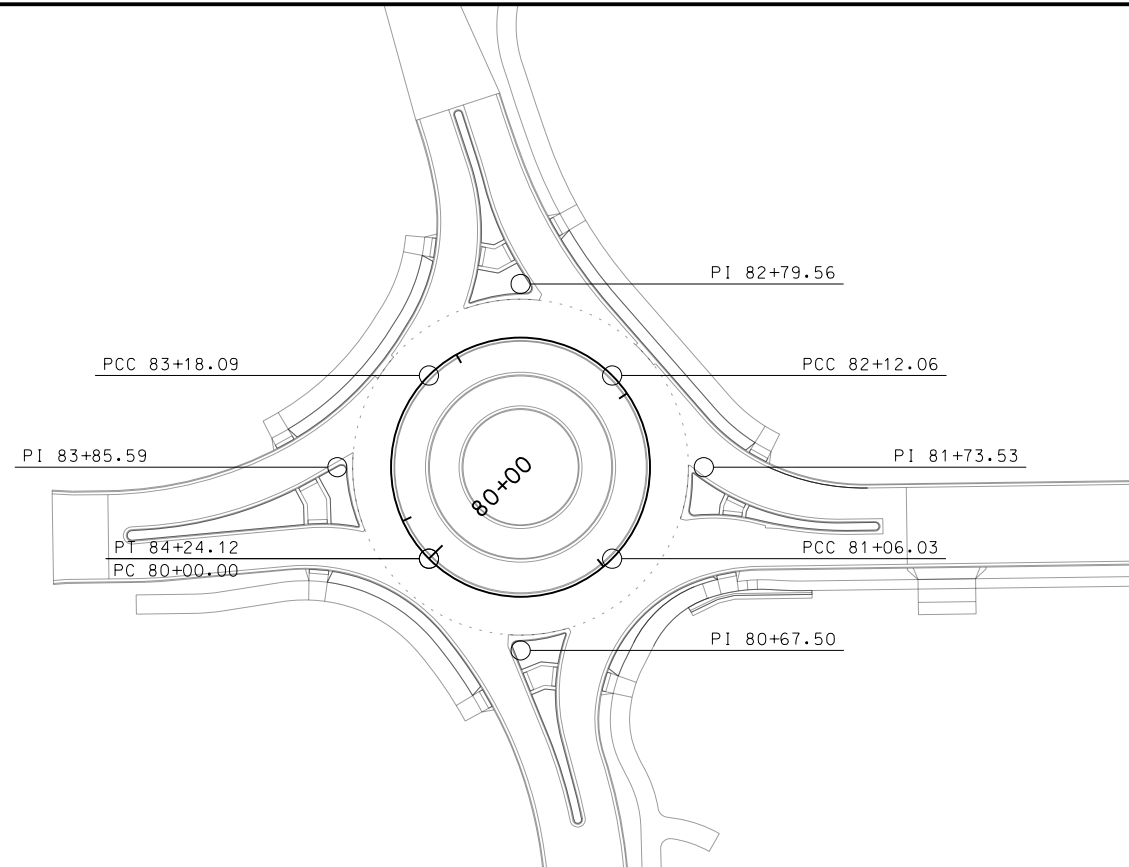
Ending chain PRRBNWEOP description



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ND 1806
 Survey Coordinate and Curve Data
 PRRBNWEOP

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Curve PRRBCCEOP_1
 PI = 80+67.50 Simple Curve
 Delta = 90° 00' 00.00" (LT)
 Da = 84° 52' 57.49"
 R = 67.50
 T = 67.50
 L = 106.03

Curve PRRBCCEOP_3
 PI = 82+79.56 Simple Curve
 Delta = 90° 00' 00.00" (LT)
 Da = 84° 52' 57.49"
 R = 67.50
 T = 67.50
 L = 106.03

Curve PRRBCCEOP_2
 PI = 81+73.53 Simple Curve
 Delta = 90° 00' 00.00" (LT)
 Da = 84° 52' 57.49"
 R = 67.50
 T = 67.50
 L = 106.03

Curve PRRBCCEOP_4
 PI = 83+85.59 Simple Curve
 Delta = 90° 00' 00.00" (LT)
 Da = 84° 52' 57.49"
 R = 67.50
 T = 67.50
 L = 106.03

Beginning chain PRRBCCEOP description

Curve Data

 Curve PRRBCCEOP_1
 P.I. Station 80+67.50 N 429,265.1220 E 1,870,433.4563
 Delta = 90° 00' 00.00" (LT)
 Degree = 84° 52' 57.49"
 Tangent = 67.5000
 Length = 106.0288
 Radius = 67.5000
 External = 27.9594
 Long Chord = 95.4594
 Mid. Ord. = 19.7703
 P.C. Station 80+00.00 N 429,312.8517 E 1,870,385.7266
 P.T. Station 81+06.03 N 429,312.8517 E 1,870,481.1860
 C.C. N 429,360.5814 E 1,870,433.4563
 Back = S 45° 00' 00.00" E
 Ahead = N 45° 00' 00.00" E
 Chord Bear = Due East

Curve Data

 Curve PRRBCCEOP_3
 P.I. Station 82+79.56 N 429,456.0408 E 1,870,433.4563
 Delta = 90° 00' 00.00" (LT)
 Degree = 84° 52' 57.49"
 Tangent = 67.5000
 Length = 106.0288
 Radius = 67.5000
 External = 27.9594
 Long Chord = 95.4594
 Mid. Ord. = 19.7703
 P.C. Station 82+12.06 N 429,408.3111 E 1,870,481.1860
 P.T. Station 83+18.09 N 429,408.3111 E 1,870,385.7266
 C.C. N 429,360.5814 E 1,870,433.4563
 Back = N 45° 00' 00.00" W
 Ahead = S 45° 00' 00.00" W
 Chord Bear = Due West

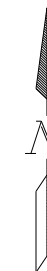
Curve Data

 Curve PRRBCCEOP_2
 P.I. Station 81+73.53 N 429,360.5814 E 1,870,528.9157
 Delta = 90° 00' 00.00" (LT)
 Degree = 84° 52' 57.49"
 Tangent = 67.5000
 Length = 106.0288
 Radius = 67.5000
 External = 27.9594
 Long Chord = 95.4594
 Mid. Ord. = 19.7703
 P.C. Station 81+06.03 N 429,312.8517 E 1,870,481.1860
 P.T. Station 82+12.06 N 429,408.3111 E 1,870,481.1860
 C.C. N 429,360.5814 E 1,870,433.4563
 Back = N 45° 00' 00.00" E
 Ahead = N 45° 00' 00.00" W
 Chord Bear = Due North

Curve Data

 Curve PRRBCCEOP_4
 P.I. Station 83+85.59 N 429,360.5814 E 1,870,337.9969
 Delta = 90° 00' 00.00" (LT)
 Degree = 84° 52' 57.49"
 Tangent = 67.5000
 Length = 106.0288
 Radius = 67.5000
 External = 27.9594
 Long Chord = 95.4594
 Mid. Ord. = 19.7703
 P.C. Station 83+18.09 N 429,408.3111 E 1,870,385.7266
 P.T. Station 84+24.12 N 429,312.8517 E 1,870,385.7266
 C.C. N 429,360.5814 E 1,870,433.4563
 Back = S 45° 00' 00.00" W
 Ahead = S 45° 00' 00.00" E
 Chord Bear = Due South

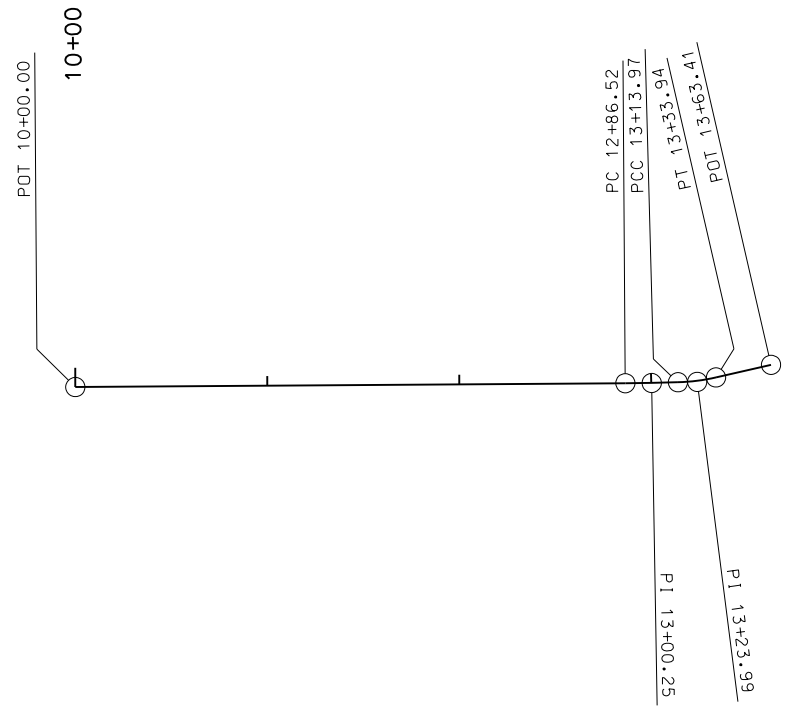
Ending chain PRRBCCEOP description



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ND 1806
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Curve PRRBCOL_3
 P.I. = 13+00.25 Simple Curve
 Delta = 1° 05' 51.62" (LT)
 Da = 3° 59' 57.03"
 RT = 1,432.69
 T = 13.72
 L = 27.45

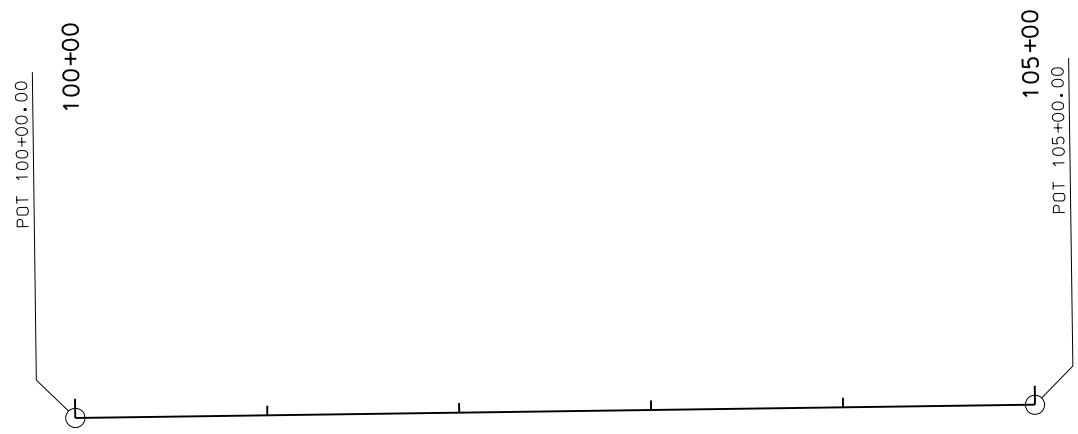
Curve PRRBCOL_4
 P.I. = 13+23.99 Simple Curve
 Delta = 11° 26' 33.10" (LT)
 Da = 57° 17' 44.81"
 RT = 100.00
 T = 10.02
 L = 19.97

Beginning chain PRRBCOL description
 =====
 Point PRRBCOL1 N 428,828.4198 E 1,870,471.6384 Sta 10+00.00
 Course from PRRBCOL1 to PC PRRBCOL_3 N 0° 24' 31.98" W Dist 286.5240
 =====
 Curve Data

 Curve PRRBCOL_3
 P.I. Station 13+00.25 N 429,128.6603 E 1,870,469.4957
 Delta = 1° 05' 51.62" (LT)
 Degree = 3° 59' 57.03"
 Tangent = 13.7242
 Length = 27.4475
 Radius = 1,432.6900
 External = 0.0657
 Long Chord = 27.4471
 Mid. Ord. = 0.0657
 P.C. Station 12+86.52 N 429,114.9365 E 1,870,469.5937
 P.T. Station 13+13.97 N 429,142.3797 E 1,870,469.1349
 C.C. N 429,104.7124 E 1,869,036.9401
 Back = N 0° 24' 31.98" W
 Ahead = N 1° 30' 23.60" W
 Chord Bear = N 0° 57' 27.79" W

Curve Data

 Curve PRRBCOL_4
 P.I. Station 13+23.99 N 429,152.3951 E 1,870,468.8715
 Delta = 11° 26' 33.10" (LT)
 Degree = 57° 17' 44.81"
 Tangent = 10.0188
 Length = 19.9710
 Radius = 100.0000
 External = 0.5006
 Long Chord = 19.9378
 Mid. Ord. = 0.4981
 P.C. Station 13+13.97 N 429,142.3797 E 1,870,469.1349
 P.T. Station 13+33.94 N 429,162.1591 E 1,870,466.6264
 C.C. N 429,139.7506 E 1,870,369.1695
 Back = N 1° 30' 23.60" W
 Ahead = N 12° 56' 56.70" W
 Chord Bear = N 7° 13' 40.15" W
 Course from PT PRRBCOL_4 to PRRBCOL6 N 12° 56' 56.70" W Dist 29.4647
 Point PRRBCOL6 N 429,190.8745 E 1,870,460.0238 Sta 13+63.41
 =====
 Ending chain PRRBCOL description
 =====



Beginning chain EXORT description
 =====
 Point EXORT1 N 429,320.6894 E 1,869,952.2478 Sta 100+00.00
 Course from EXORT1 to EXORT2 N 89° 13' 08.36" E Dist 500.0000
 Point EXORT2 N 429,327.5047 E 1,870,452.2013 Sta 105+00.00
 =====
 Ending chain EXORT description
 =====

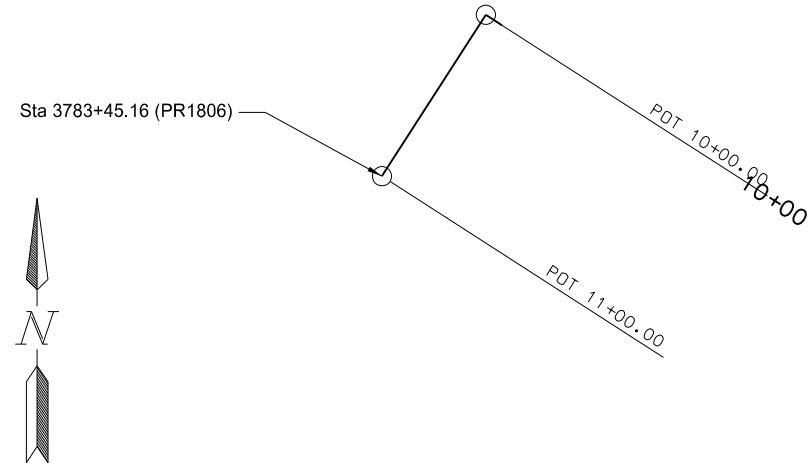
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ND 1806
 Survey Coordinate and Curve Data
 PRRBCOL, EXORT

Private Drive

Beginning chain PRA3783+45 description

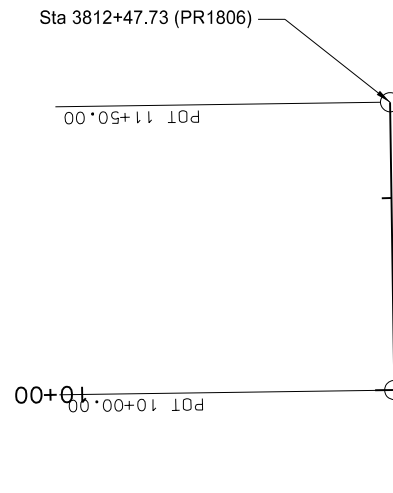
Point 4391 N 429,425.9307 E 1,874,104.9292 Sta 10+00.00
 Course from 4280 to 4281 S 32° 45' 06.14" W Dist 100.0000
 Point 4392 N 429,341.8284 E 1,874,050.8292 Sta 11+00.00
 Ending chain PRA3783+45 description



Private Drive

Beginning chain PRA3812+48 description

Point 2238 N 429,187.0036 E 1,871,136.5877 Sta 10+00.00
 Course from 2238 to 2239 N 0°48' 55.58" W Dist 150.0000
 Point 2239 N 429,336.9884 E 1,871,134.4529 Sta 11+50.00
 Ending chain PRA3812+48 description

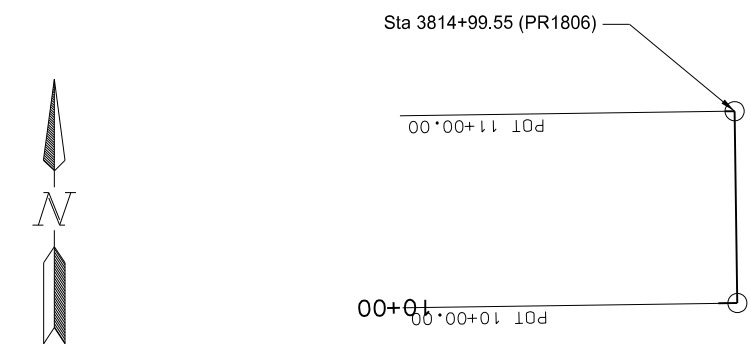


| | | | |
|-------|-------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 81 | 12 |

Private Drive

Beginning chain PRA3815+00 description

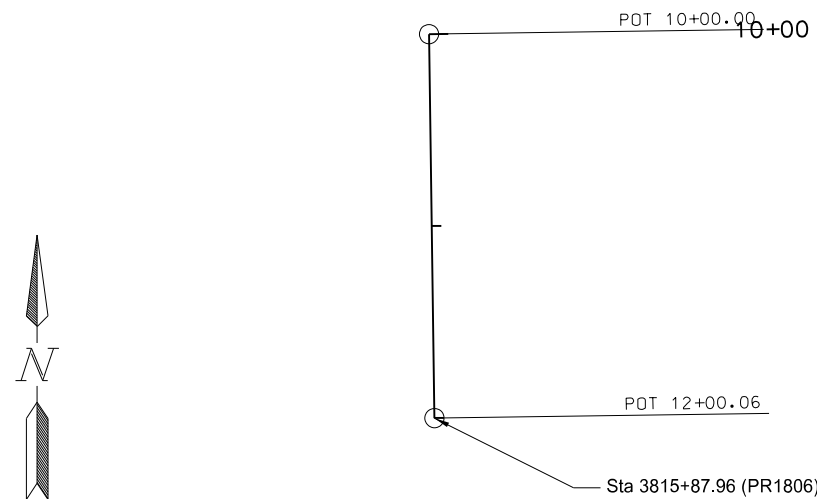
Point 2206 N 429,233.4147 E 1,870,884.0802 Sta 10+00.00
 Course from 2206 to 2207 N 0°48' 55.58" W Dist 100.0000
 Point 2207 N 429,333.4046 E 1,870,882.6571 Sta 11+00.00
 Ending chain PRA3815+00 description



Private Drive

Beginning chain PRA3815+88 description

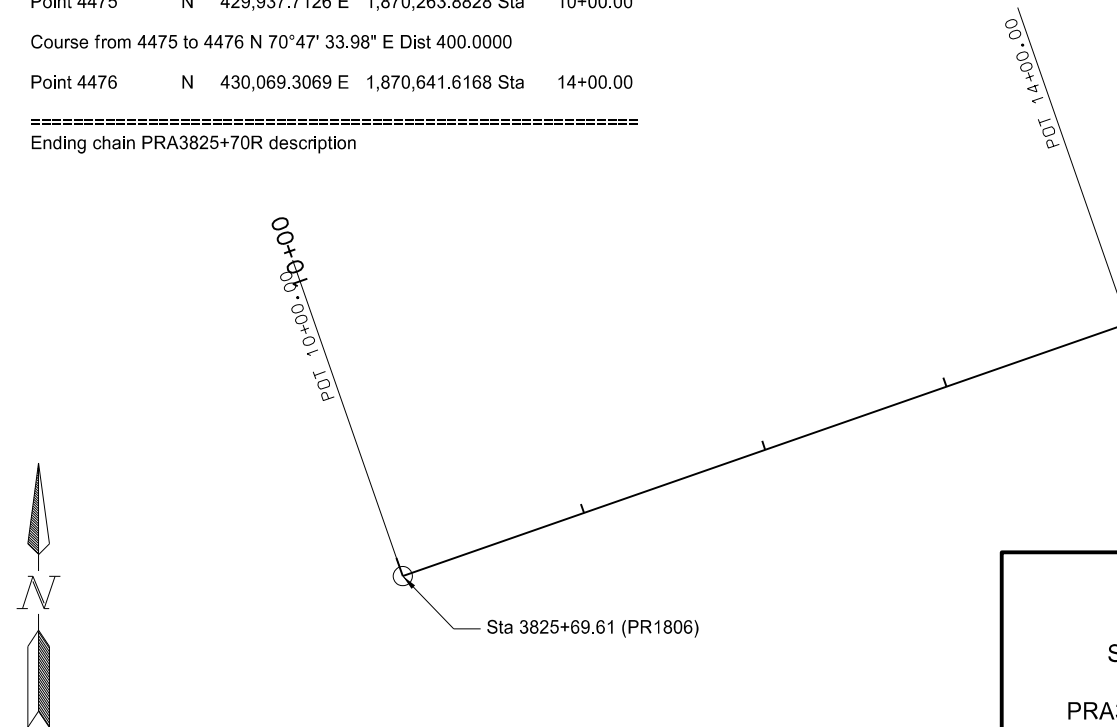
Point 4507 N 429,532.1409 E 1,870,791.4071 Sta 10+00.00
 Course from 4507 to 4508 S 0°48' 58.74" E Dist 200.0559
 Point 4508 N 429,332.1053 E 1,870,794.2573 Sta 12+00.06
 Ending chain PRA3815+88 description



Private Drive

Beginning chain PRA3825+70R description

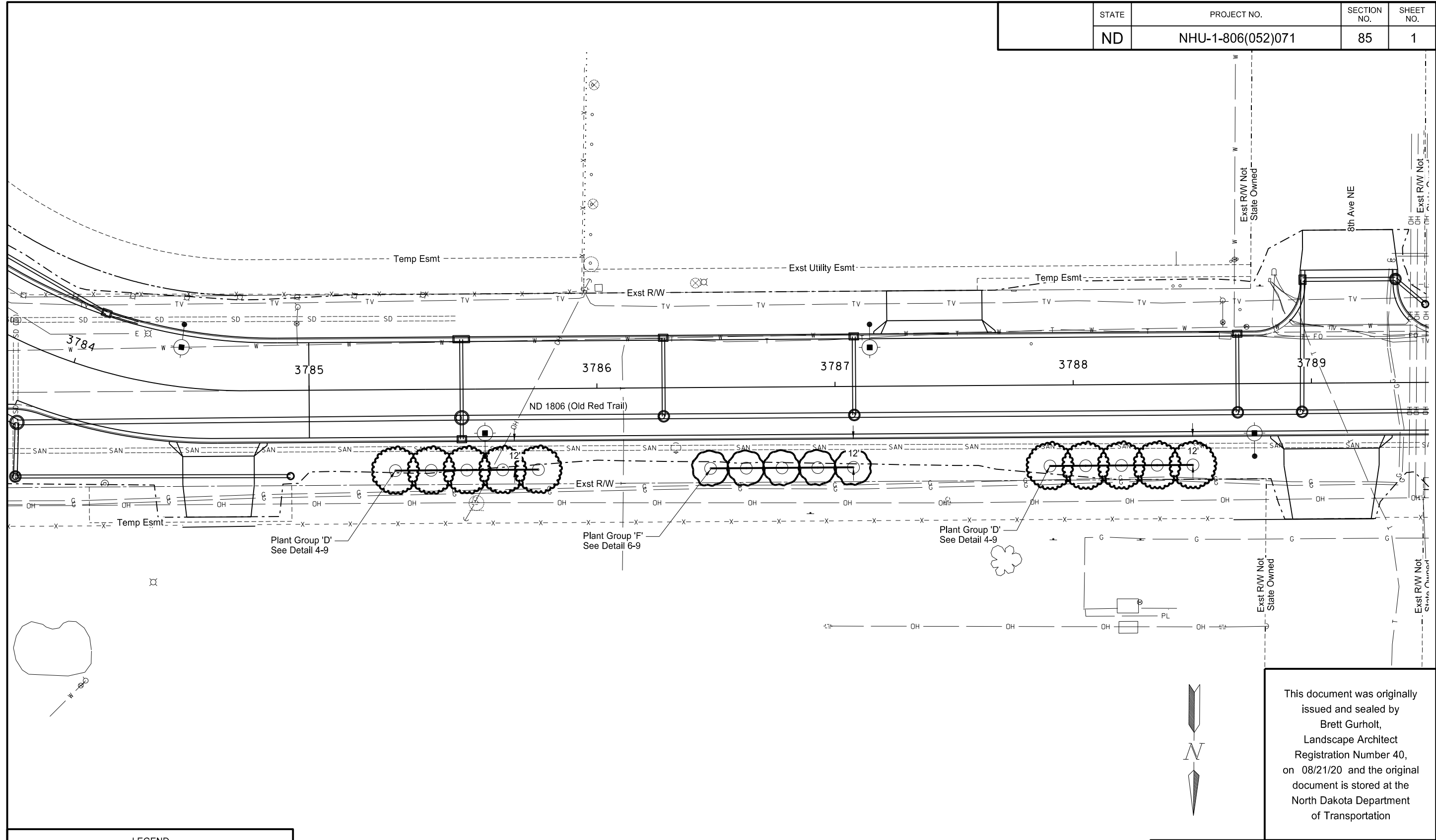
Point 4475 N 429,937.7126 E 1,870,263.8828 Sta 10+00.00
 Course from 4475 to 4476 N 70°47' 33.98" E Dist 400.0000
 Point 4476 N 430,069.3069 E 1,870,641.6168 Sta 14+00.00
 Ending chain PRA3825+70R description



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ND 1806
 Survey Coordinate and Curve Data
 PRA3783+45, PRA3812+48, PRA3815+00
 PRA3815+88, PRA3825+70R

| | | | |
|-------|-------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 85 | 1 |



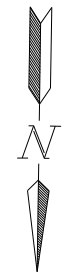
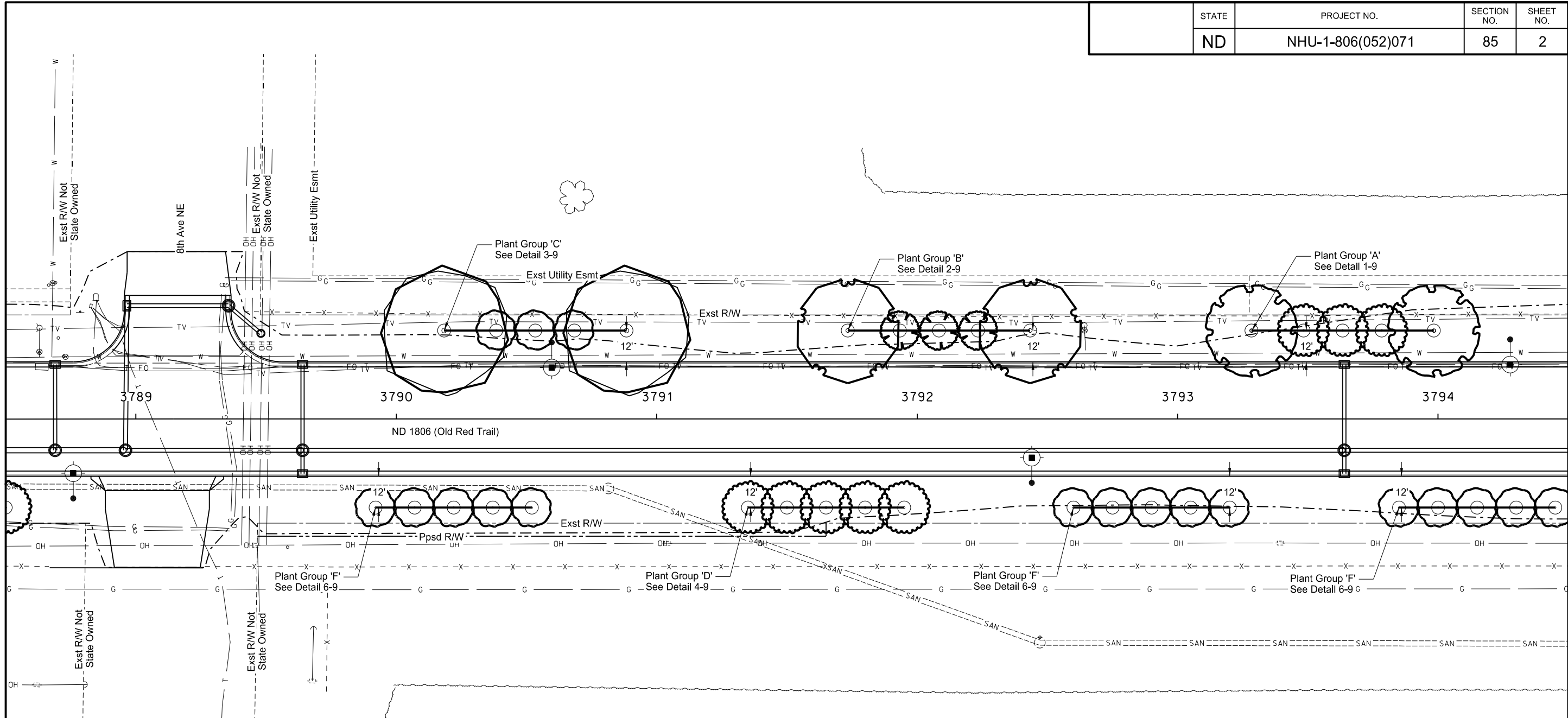
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ND 1806
 Landscape Plan
 Sta 3784+00 to Sta 3789+00 (PR1806)

LEGEND

| | |
|--|--|
| | Tree symbols vary, for species see Plant Schedule on Sheet 9 |
| | (1) Quantity |
| | (AA) Species, See Plant Schedule on Sheet 9 |

| | | | |
|-------|-------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 85 | 2 |

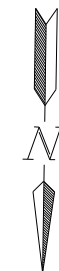
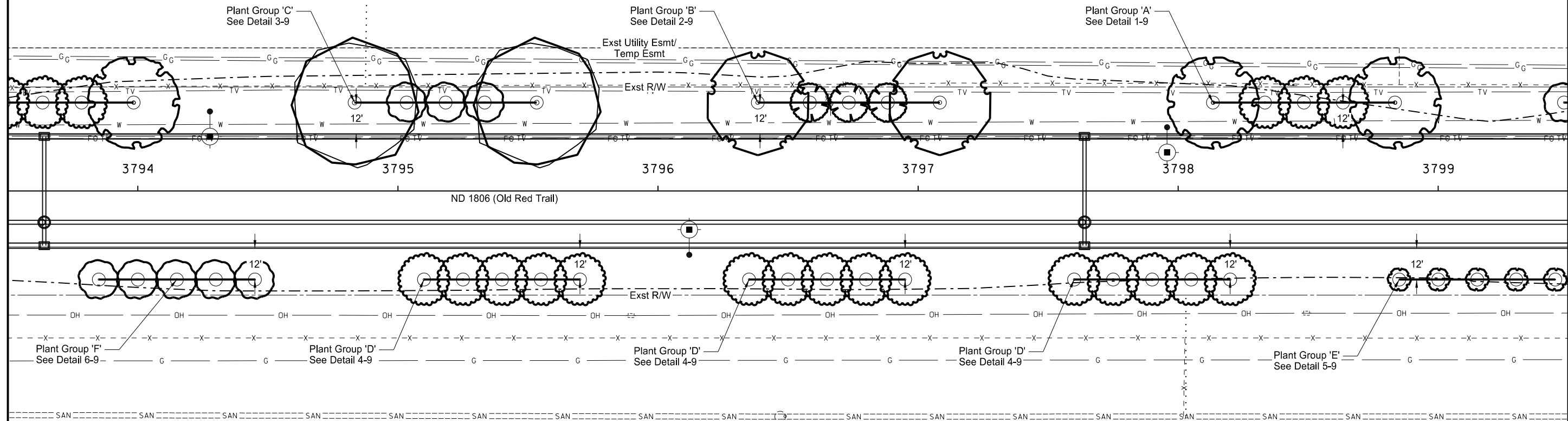


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| LEGEND | |
|--------|--|
| | Tree symbols vary, for species see Plant Schedule on Sheet 9 |
| | (1) Quantity (AA) Species, See Plant Schedule on Sheet 9 |

ND 1806
 Landscape Plan
 Sta 3789+00 to Sta 3794+00 (PR1806)

| | | | |
|-------|-------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 85 | 3 |

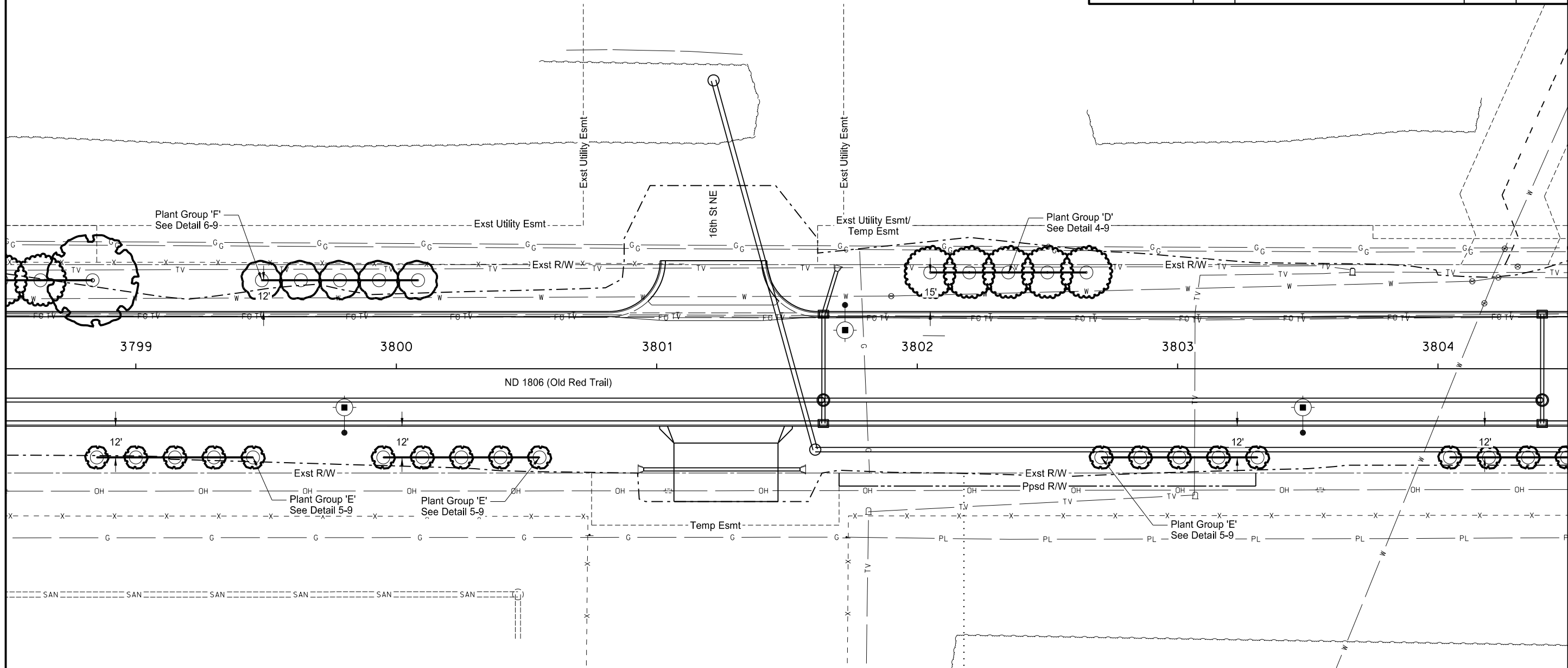


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| LEGEND | |
|--------|--|
| | Tree symbols vary, for species see Plant Schedule on Sheet 9 |
| | (1) Quantity |
| | (AA) Species, See Plant Schedule on Sheet 9 |

ND 1806
 Landscape Plan
 Sta 3794+00 to Sta 3799+00 (PR1806)

| | | | |
|-------|-------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 85 | 4 |

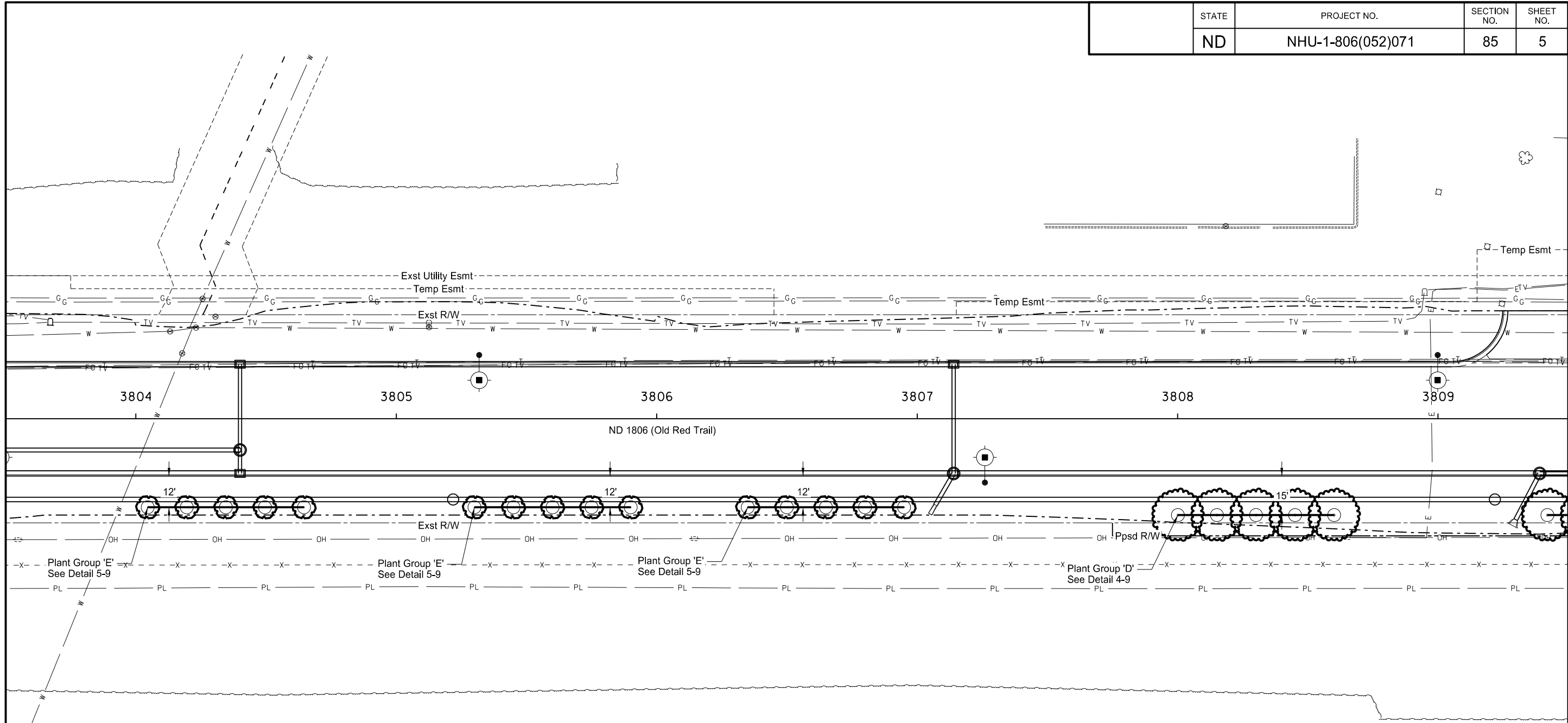


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| LEGEND | |
|--------|--|
| | Tree symbols vary, for species see Plant Schedule on Sheet 9 |
| | (1) Quantity |
| | (AA) Species, See Plant Schedule on Sheet 9 |

ND 1806
 Landscape Plan
 Sta 3799+00 to Sta 3804+00 (PR1806)

| | | | |
|-------|-------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 85 | 5 |

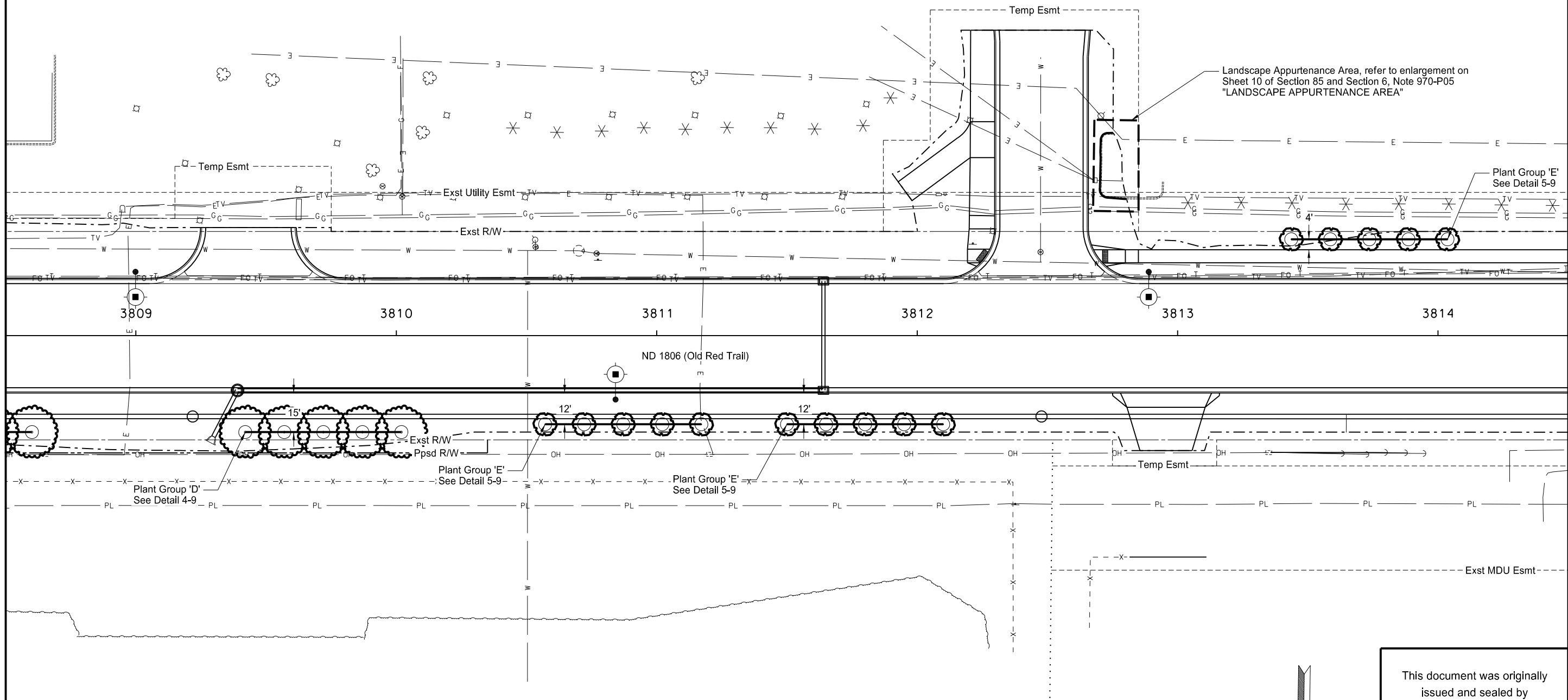


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| LEGEND | |
|--------|--|
| | Tree symbols vary, for species see Plant Schedule on Sheet 9 |
| | (1) Quantity |
| | (AA) Species, See Plant Schedule on Sheet 9 |

ND 1806
 Landscape Plan
 Sta 3804+00 to Sta 3809+00 (PR1806)

| | | | |
|-------|-------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 85 | 6 |



Landscape Appurtenance Area, refer to enlargement on Sheet 10 of Section 85 and Section 6, Note 970-P05 "LANDSCAPE APPURTENANCE AREA"

Plant Group 'E'
See Detail 5-9

3809

3810

3811

3812

3813

3814

ND 1806 (Old Red Trail)

Plant Group 'D'
See Detail 4-9

Plant Group 'E'
See Detail 5-9

Plant Group 'E'
See Detail 5-9

Exst MDU Esmt

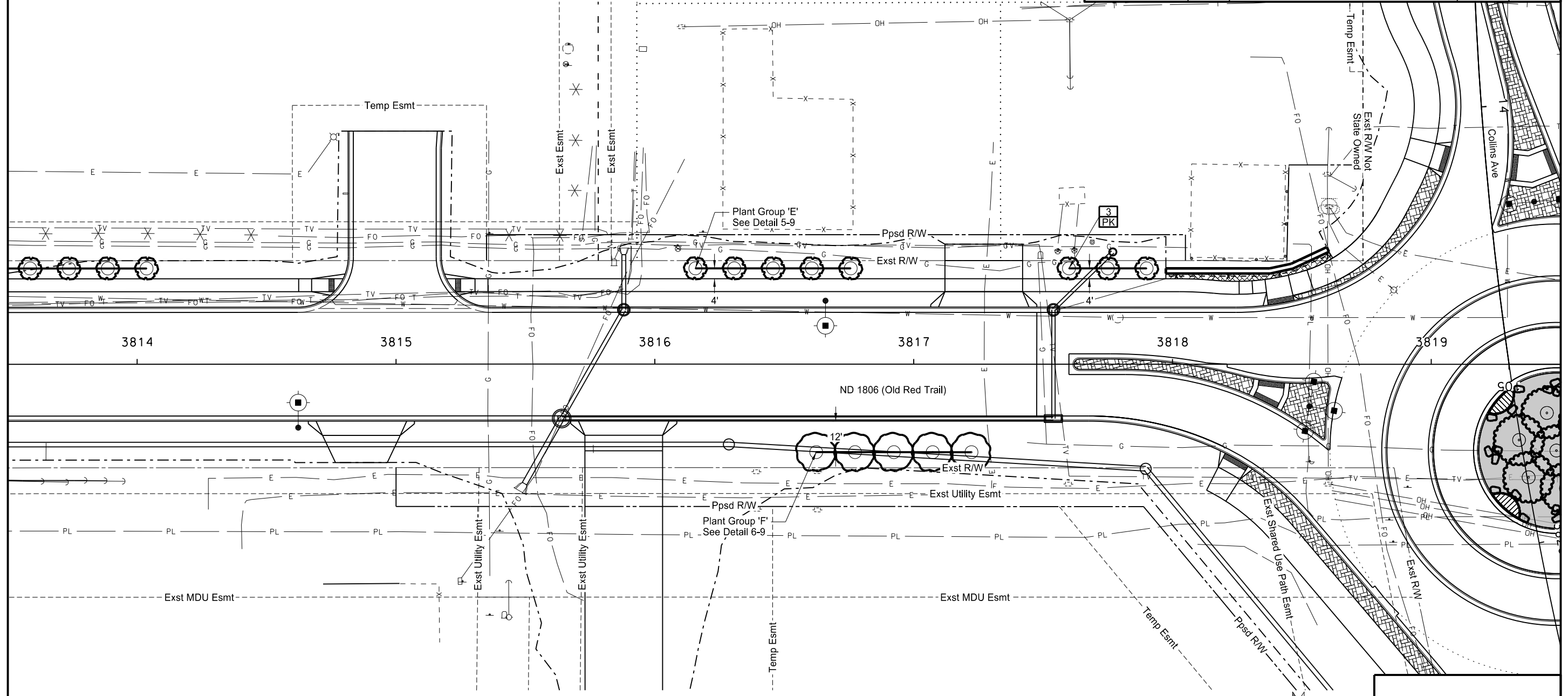


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| LEGEND | |
|--------|--|
| | Tree symbols vary, for species see Plant Schedule on Sheet 9 |
| | (1) Quantity |
| | (AA) Species, See Plant Schedule on Sheet 9 |

ND 1806
Landscape Plan
Sta 3809+00 to Sta 3814+00 (PR1806)

| | | | |
|-------|-------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 85 | 7 |



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ND 1806
Landscape Plan
Sta 3814+00 to Sta 3818+50 (PR1806)

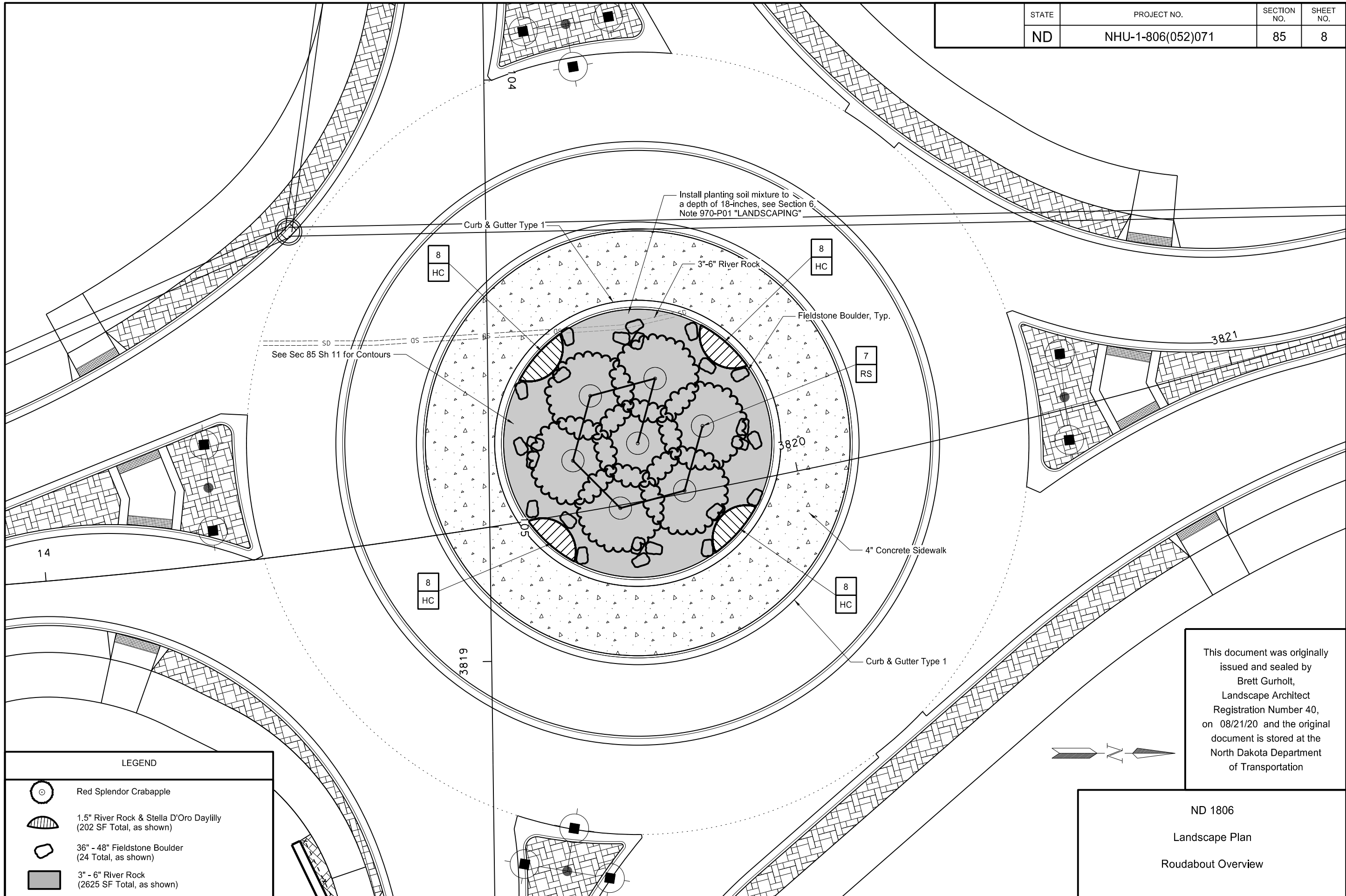
LEGEND

Tree symbols vary, for species see Plant Schedule on Sheet 9

(1) Quantity

(AA) Species, See Plant Schedule on Sheet 9

| | | | |
|-------|-------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 85 | 8 |



See Sec 85 Sh 11 for Contours

Install planting soil mixture to a depth of 18-inches, see Section 6, Note 970-P01 "LANDSCAPING"

Curb & Gutter Type 1





3"-6" River Rock

Fieldstone Boulder, Typ.

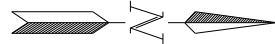
4" Concrete Sidewalk

Curb & Gutter Type 1

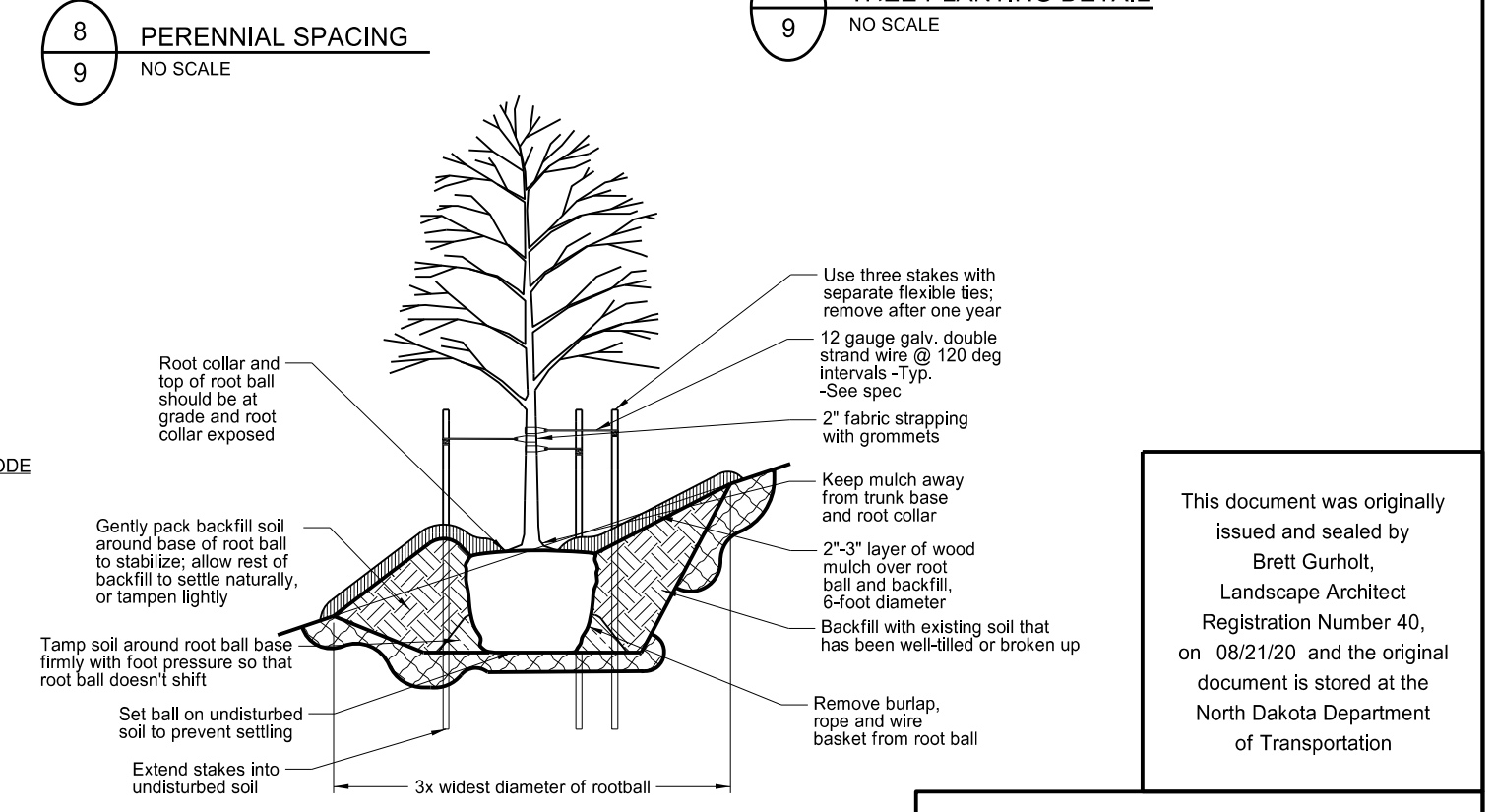
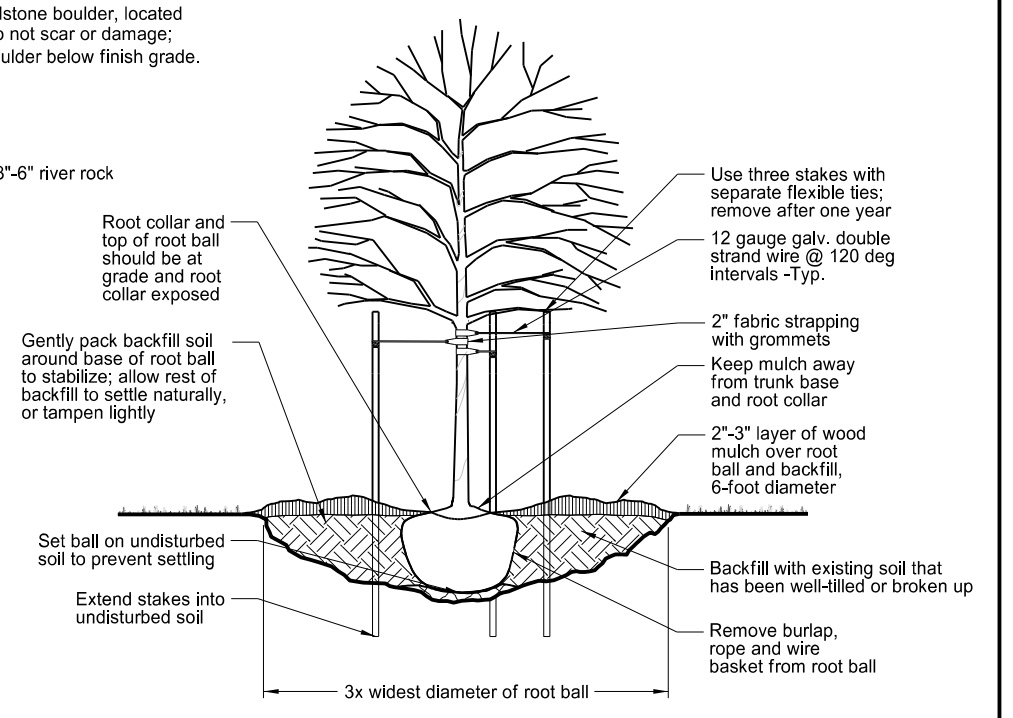
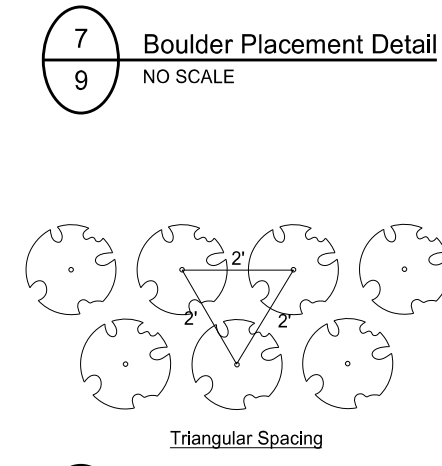
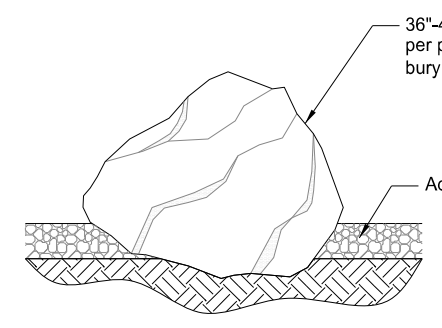
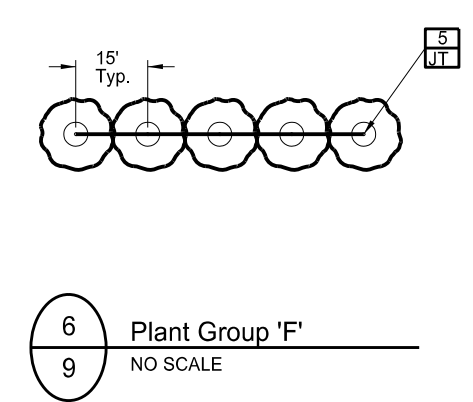
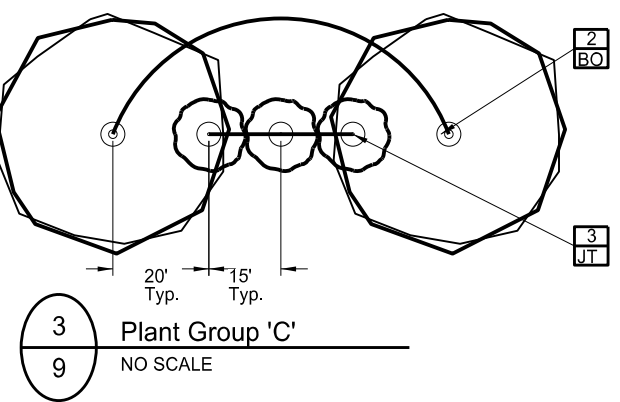
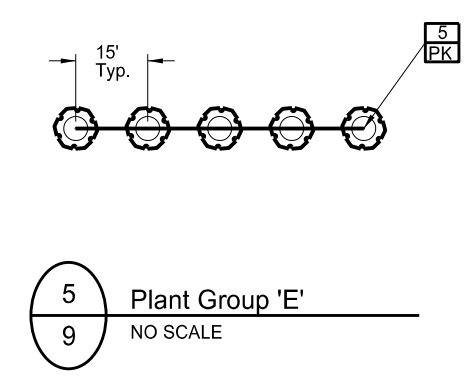
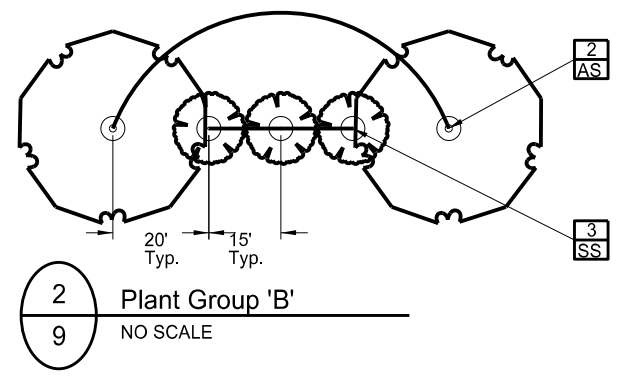
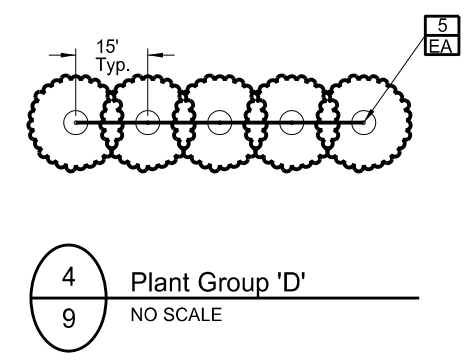
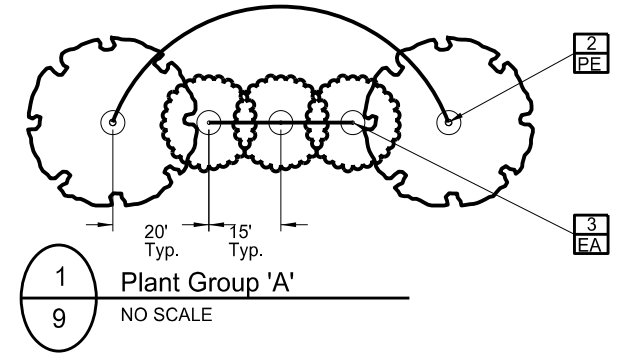
LEGEND

-  Red Splendor Crabapple
-  1.5" River Rock & Stella D'Oro Daylily (202 SF Total, as shown)
-  36" - 48" Fieldstone Boulder (24 Total, as shown)
-  3" - 6" River Rock (2625 SF Total, as shown)

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ND 1806
Landscape Plan
Roudabout Overview



Plant Schedule

| TREES | QTY | COMMON NAME | BOTANICAL NAME | TYPE | SIZE | HEIGHT AT PLANTING | SPEC-CODE |
|-------|-----|-------------------------|---|----------|------|--------------------|-----------|
| AS | 4 | Autumn Splendor Buckeye | Aesculus x arnoldiana 'Autumn Splendor' | B&B/CONT | 1.5" | 7'-10' | 970-2032 |
| EA | 51 | Embers Amur Maple | Acer ginnala 'Embers' | B&B/CONT | 1.5" | 5'-8' | 970-2014 |
| RS | 7 | Red Splendor Crabapple | Malus 'Red Splendor' | B&B/CONT | 1.5" | 5'-8' | 970-2194 |
| SS | 6 | Spring Snow Crabapple | Malus x 'Spring Snow' | B&B/CONT | 1.5" | 5'-8' | 970-2202 |
| BO | 4 | Bur Oak | Quercus macrocarpa | B&B/CONT | 1.5" | 10'-12' | 970-2330 |
| JT | 36 | Japanese Tree Lilac | Syringa reticulata | B&B/CONT | 1.5" | 7'-10' | 970-2405 |
| PE | 4 | Prairie Expedition Elm | Ulmus americana 'Lewis & Clark' | B&B/CONT | 1.5" | 10'-12' | 970-2456 |
| PK | 53 | Princess Kay Plum | Prunus nigra 'Princess Kay' | B&B/CONT | 1.5" | 5'-8' | 970-2215 |

| PERENNIALS | CODE | QTY | COMMON NAME | BOTANICAL NAME | CONT | SPACING |
|------------|------|-----|----------------------|-----------------------------|------|----------|
| | HC | 32 | Stella D'Oro Daylily | Hemerocallis 'Stella D'Oro' | #1 | 24" o.c. |

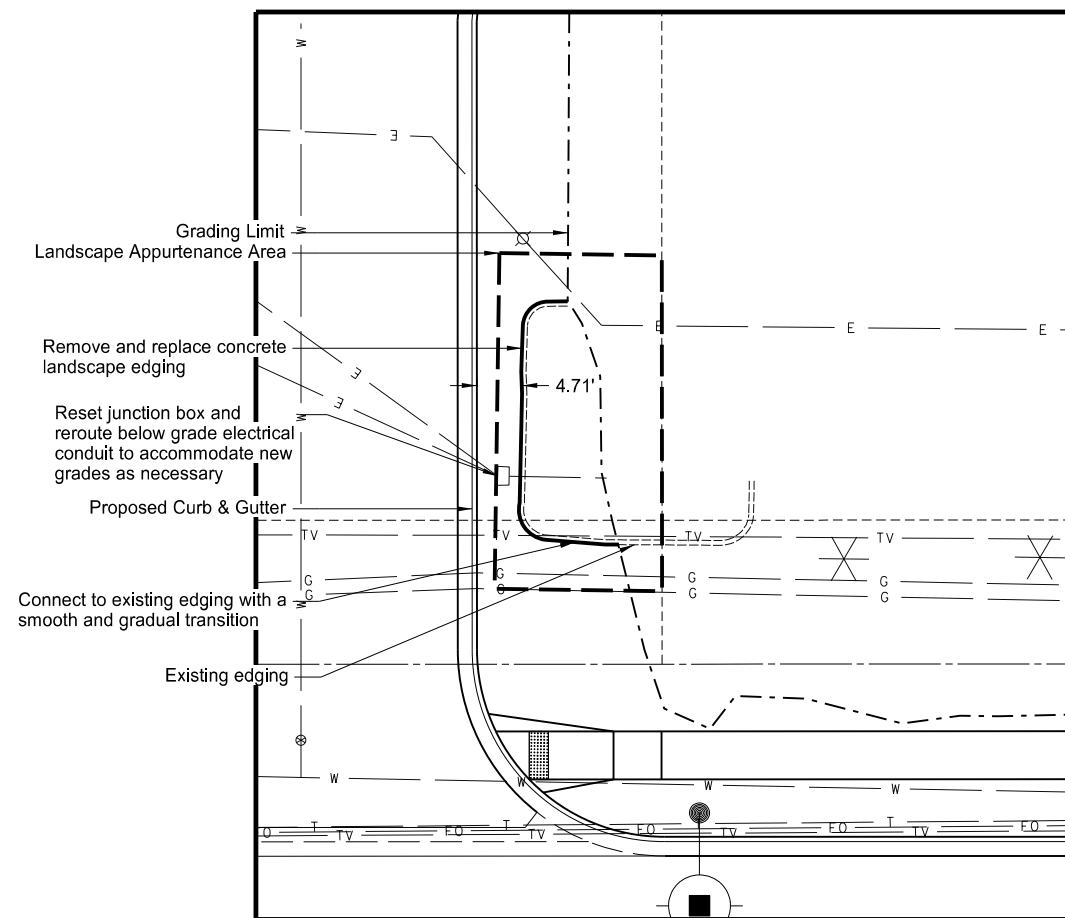
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ND 1806
 Landscape Plan
 Landscaping Details

| | | | |
|-------|-------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 85 | 10 |



View of Starion Sports Complex monument sign looking northwest



- Notes:
1. See Section 6, Note 970-P05 "LANDSCAPE APPURTENANCE AREA"
 2. Contractor to verify all quantities needed to restore impacted area to original condition.

1 LANDSCAPE APPURTENANCE AREA ENLARGEMENT

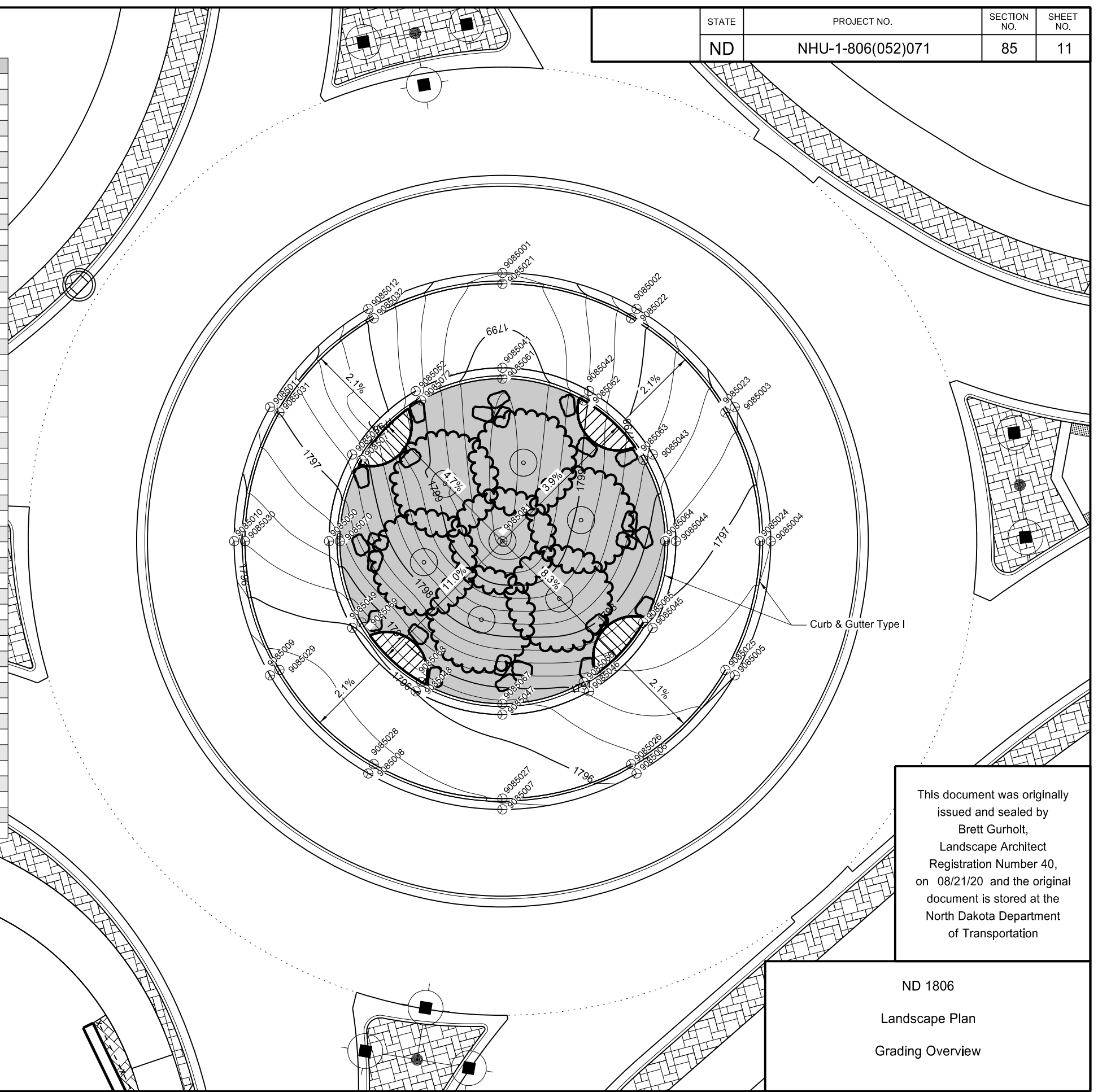
10 NO SCALE

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ND 1806
 Landscape Plan
 Landscape Appurtenance Area

| Point Number | Northing | Easting | Elevation |
|--------------|-----------|------------|-----------|
| 9085001 | 429360.58 | 1870383.96 | 1798.23 |
| 9085002 | 429385.33 | 1870390.59 | 1797.56 |
| 9085003 | 429403.45 | 1870408.71 | 1796.78 |
| 9085004 | 429410.08 | 1870433.46 | 1796.25 |
| 9085005 | 429403.45 | 1870458.21 | 1796.01 |
| 9085006 | 429385.33 | 1870476.32 | 1795.60 |
| 9085007 | 429360.58 | 1870482.96 | 1795.18 |
| 9085008 | 429335.83 | 1870476.32 | 1795.08 |
| 9085009 | 429317.71 | 1870458.21 | 1795.07 |
| 9085010 | 429311.08 | 1870433.46 | 1795.68 |
| 9085011 | 429317.71 | 1870408.71 | 1796.42 |
| 9085012 | 429335.83 | 1870390.59 | 1797.47 |
| 9085021 | 429360.58 | 1870385.96 | 1798.82 |
| 9085022 | 429384.33 | 1870392.32 | 1798.14 |
| 9085023 | 429401.72 | 1870409.71 | 1797.36 |
| 9085024 | 429408.08 | 1870433.46 | 1796.83 |
| 9085025 | 429401.72 | 1870457.21 | 1796.59 |
| 9085026 | 429384.33 | 1870474.59 | 1796.18 |
| 9085027 | 429360.58 | 1870480.96 | 1795.76 |
| 9085028 | 429336.83 | 1870474.59 | 1795.67 |
| 9085029 | 429319.45 | 1870457.21 | 1795.65 |
| 9085030 | 429313.08 | 1870433.46 | 1796.27 |
| 9085031 | 429319.45 | 1870409.71 | 1797.01 |
| 9085032 | 429336.83 | 1870392.32 | 1798.06 |
| 9085041 | 429360.58 | 1870401.46 | 1799.16 |
| 9085042 | 429376.58 | 1870405.74 | 1798.48 |
| 9085043 | 429388.29 | 1870417.46 | 1797.70 |
| 9085044 | 429392.58 | 1870433.46 | 1797.17 |
| 9085045 | 429388.29 | 1870449.46 | 1796.93 |
| 9085046 | 429376.58 | 1870461.17 | 1796.53 |
| 9085047 | 429360.58 | 1870465.46 | 1796.10 |
| 9085048 | 429344.58 | 1870461.17 | 1796.01 |
| 9085049 | 429332.87 | 1870449.46 | 1795.99 |
| 9085050 | 429328.58 | 1870433.46 | 1796.61 |
| 9085051 | 429332.87 | 1870417.46 | 1797.34 |
| 9085052 | 429344.58 | 1870405.74 | 1798.40 |
| 9085061 | 429360.58 | 1870403.46 | 1799.74 |
| 9085062 | 429375.58 | 1870407.48 | 1799.06 |
| 9085063 | 429386.56 | 1870418.46 | 1798.29 |
| 9085064 | 429390.58 | 1870433.46 | 1797.76 |
| 9085065 | 429386.56 | 1870448.46 | 1797.51 |
| 9085066 | 429375.58 | 1870459.44 | 1797.11 |
| 9085067 | 429360.58 | 1870463.46 | 1796.68 |
| 9085068 | 429345.58 | 1870459.44 | 1796.59 |
| 9085069 | 429334.60 | 1870448.46 | 1796.57 |
| 9085070 | 429330.58 | 1870433.46 | 1797.19 |
| 9085071 | 429334.60 | 1870418.46 | 1797.93 |
| 9085072 | 429345.58 | 1870407.48 | 1798.98 |
| 9085081 | 429360.58 | 1870433.46 | 1799.85 |


All Elevations are Top Finish Grade of Rock or Curb

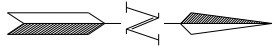


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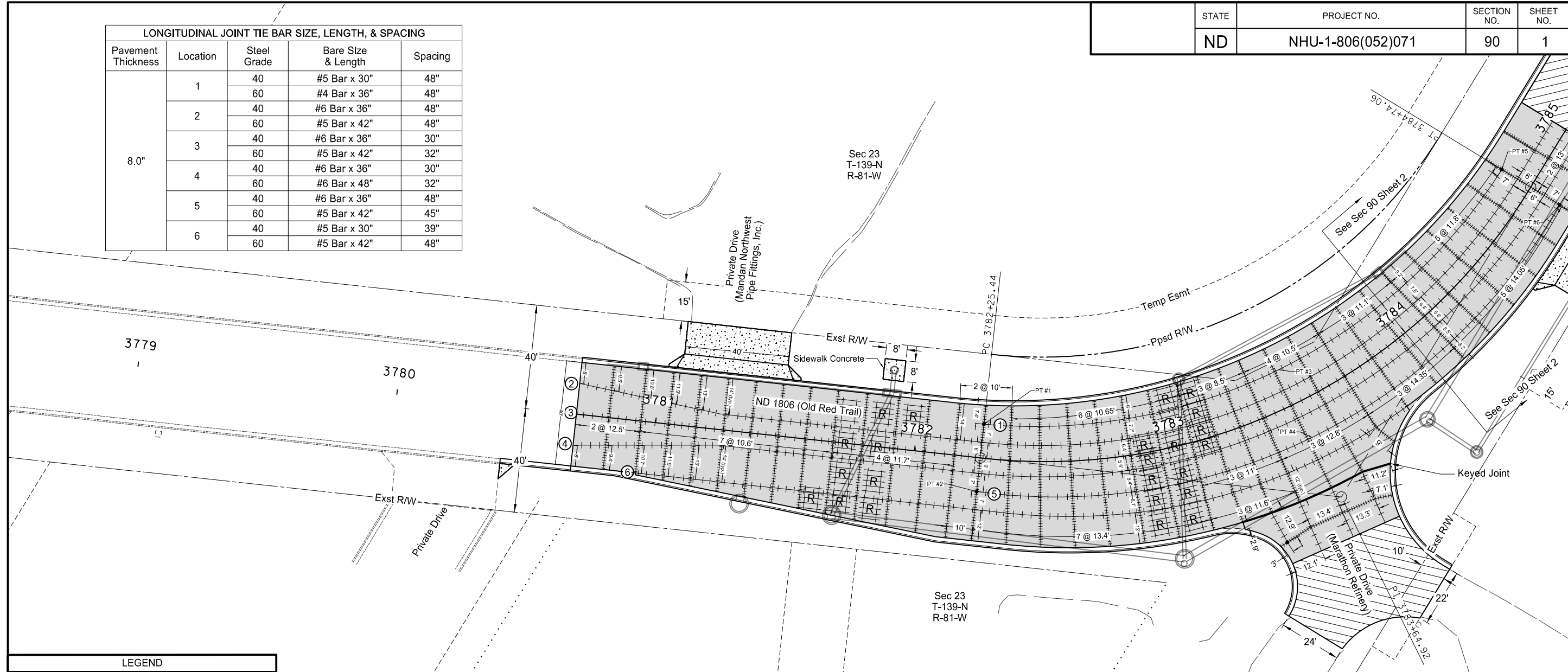
ND 1806
 Landscape Plan
 Grading Overview

LEGEND

-  Red Splendor Crabapple
- 1.5" River Rock & Stella D'Oro Daylilly
- 36" - 48" Fieldstone Boulder
- 3" - 6" River Rock



| LONGITUDINAL JOINT TIE BAR SIZE, LENGTH, & SPACING | | | | |
|--|----------|-------------|-------------------|---------|
| Pavement Thickness | Location | Steel Grade | Bar Size & Length | Spacing |
| 8.0" | 1 | 40 | #5 Bar x 30" | 48" |
| | | 60 | #4 Bar x 36" | 48" |
| | 2 | 40 | #6 Bar x 36" | 48" |
| | | 60 | #5 Bar x 42" | 48" |
| | 3 | 40 | #6 Bar x 36" | 30" |
| | | 60 | #5 Bar x 42" | 32" |
| | 4 | 40 | #6 Bar x 36" | 30" |
| | | 60 | #6 Bar x 48" | 32" |
| | 5 | 40 | #6 Bar x 36" | 48" |
| | | 60 | #5 Bar x 42" | 45" |
| | 6 | 40 | #5 Bar x 30" | 39" |
| | | 60 | #5 Bar x 42" | 48" |



LEGEND

- 5IN HMA FAA 45 on 12IN CL 5 on Type G
- 4IN HMA FAA 45 on 12IN CL 5*
- 4IN HMA FAA 45 on 4IN CL5 (Trail)
- 2.5IN HMA FAA 45 (Overlay)
- 4IN Sidewalk Concrete on 4IN CL 5
- 8IN Driveway Concrete on 4IN CL 5
- Pigmented Imprinted Concrete
- 8IN Non Reif Concrete Pvmt CL AE-Doweled on 8IN CL 5 on Type G
- Pavement Reinforcement (See Section 20 Sheet 8)
- Non Reif Concrete Pvmt CL AE Doweled-Colored (8IN) on 8IN CL 5 on Type G
- Aggregate Surface Course CL 5
- Detectable Warning Panels
- Longitudinal Keyed Joint (See Standard Drawing D550-2)
- Tied Joint (See Standard Drawing D550-2)
- Doweled Joint (See Standard Drawing D550-3)
- 2" Dia Core Hole

*PR1806; Sta 3821+57.00 to Sta 3850+56.00

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------|------|
| 302 0120 | AGGREGATE BASE COURSE CL 5 | | |
| | Sta 3780+69 to Sta 3784+00 (Mainline) | 973 | TON |
| | Sta 3780+42 Rt (Driveway) | 1 | TON |
| | Sta 3781+30 Lt (Driveway) | 18 | TON |
| | Sta 3783+48 Rt (Marathon Driveway) | 139 | TON |
| 401 0050 | TACK COAT | | |
| | Sta 3783+48 Rt (Marathon Driveway) | 32 | GAL |
| 430 0045 | SUPERPAVE FAA 45 | | |
| | Sta 3783+48 Rt (Marathon Driveway) | 56 | TON |
| 430 5806 | PG 58H-28 ASPHALT CEMENT | | |
| | Sta 3783+48 Rt (Marathon Driveway) | 3.3 | TON |
| 550 0300 | 8IN NON-REINF CONCRETE PVMT CL AE-DOWELED | | |
| | Sta 3780+69 to Sta 3784+00 | 2,028 | SY |
| 709 0100 | GEOSYNTHETIC MATERIAL TYPE G | | |
| | Sta 3780+69 to Sta 3784+00 (Mainline) | 2,407 | SY |
| | Sta 3783+48 Rt (Marathon Driveway) | 227 | SY |
| 748 0140 | CURB & GUTTER-TYPE I | | |
| | Sta 3780+42 to Sta 3784+00 | 729 | LF |

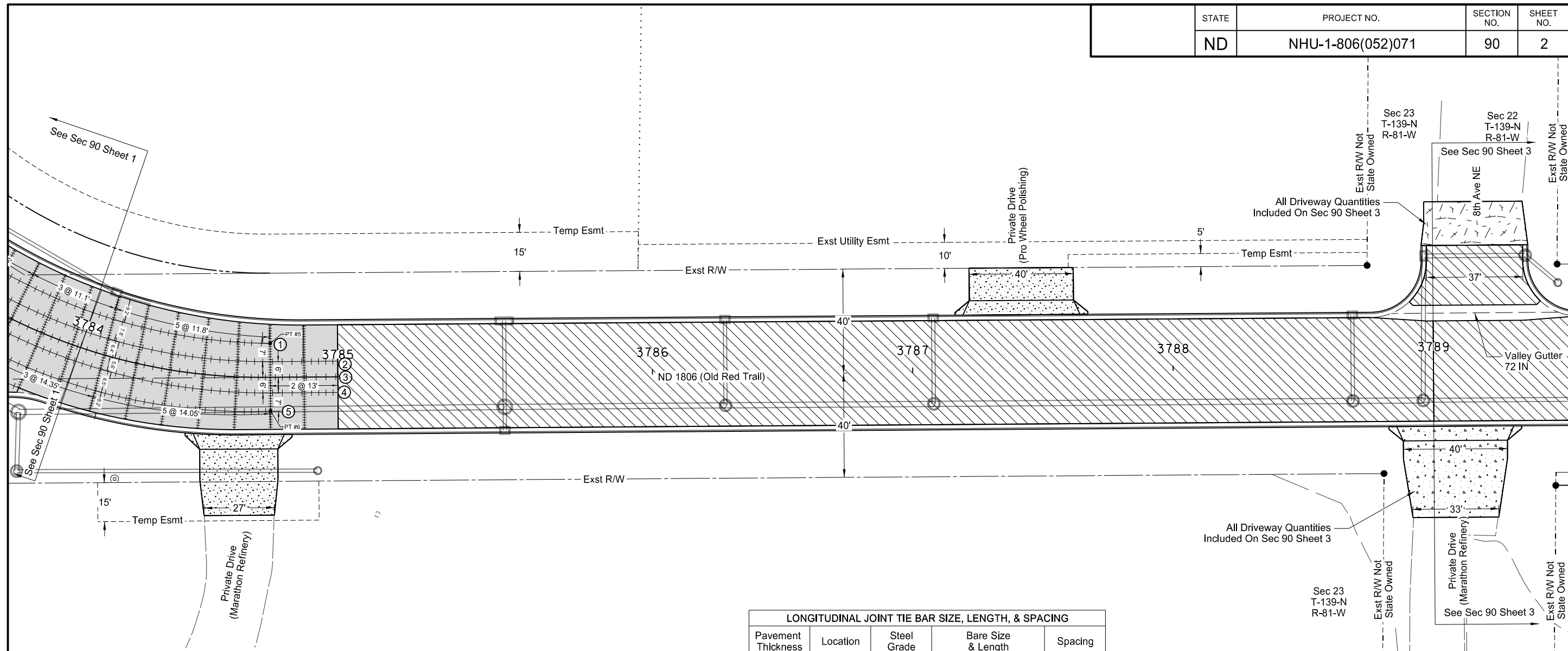
| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|--|-----|------|
| 750 0115 | SIDEWALK CONCRETE 4IN | | |
| | Sta 3781+85, 30' Lt to Sta 3781+93, 30' Lt | 7 | SY |
| 750 1020 | DRIVEWAY CONCRETE 8IN | | |
| | Sta 3780+42 Rt | 2 | SY |
| | Sta 3781+25 Lt | 84 | SY |

JOINT LAYOUT INFORMATION

| PT # | STA / OFFSET | RAD PT |
|------|--------------------------|------------------------|
| 1 | PC 3782+25.44, 13.0' LT | 3782+21.91, 225.5' LT |
| 3 | MID 3783+49.72, 14.0' LT | R = 212.566' |
| 5 | PT 3784+74.06, 13.0' LT | 3783+49.59, 207.75' LT |
| 2 | PC 3782+25.44, 13.0' RT | R = 222.754' |
| 4 | MID 3783+49.72, 15.0' LT | |
| 6 | PT 3784+74.06, 13.0' RT | |

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 Sta 3780+00 to 3784+00

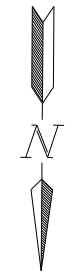


| LEGEND | |
|--------|--|
| | 5IN HMA FAA 45 on 12IN CL 5 on Type G |
| | 4IN HMA FAA 45 on 12IN CL 5* |
| | 4IN HMA FAA 45 on 4IN CL5 (Trail) |
| | 2.5IN HMA FAA 45 (Overlay) |
| | 4IN Sidewalk Concrete on 4IN CL 5 |
| | 8IN Driveway Concrete on 4IN CL 5 |
| | Pigmented Imprinted Concrete |
| | 8IN Non Reif Concrete Pvmt CL AE-Doweled on 8IN CL 5 on Type G |
| | Pavement Reinforcement (See Section 20 Sheet 8) |
| | Non Reif Concrete Pvmt CL AE Doweled-Colored (8IN) on 8IN CL 5 on Type G |
| | Aggregate Surface Course CL 5 |
| | Detectable Warning Panels |
| | Longitudinal Keyed Joint (See Standard Drawing D550-2) |
| | Tied Joint (See Standard Drawing D550-2) |
| | Doweled Joint (See Standard Drawing D550-3) |
| | 2" Dia Core Hole |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------|------|
| 302 0120 | AGGREGATE BASE COURSE CL 5 | | |
| | Sta 3784+00 to Sta 3785+00(Mainline PCC) | 235 | TON |
| | Sta 3785+00 to Sta 3789+00 (Mainline HMA) | 1,395 | TON |
| | Sta 3784+50 Rt (Driveway) | 22 | TON |
| | Sta 3787+40 Lt (Driveway) | 18 | TON |
| 401 0050 | TACK COAT | | |
| | Sta 3785+00 to Sta 3789+00 (Mainline) | 299 | GAL |
| 430 0045 | SUPERPAVE FAA 45 | | |
| | Sta 3785+00 to Sta 3789+00 (Mainline) | 519 | TON |
| 430 5806 | PG 58H-28 ASPHALT CEMENT | | |
| | Sta 3785+00 to Sta 3789+00 (Mainline) | 31.1 | TON |
| 550 0300 | 8IN NON-REINF CONCRETE PVMT CL AE-DOWELED | | |
| | Sta 3784+00 to Sta 3785+00 (Mainline) | 473 | SY |
| 709 0100 | GEOSYNTHETIC MATERIAL TYPE G | | |
| | Sta 3784+00 to Sta 3789+00 | 2,907 | SY |
| 748 0140 | CURB & GUTTER-TYPE I | | |
| | Sta 3784+00 to Sta 3789+00 | 1,018 | LF |
| 750 1020 | DRIVEWAY CONCRETE 8IN | | |
| | Sta 3784+62 Rt | 105 | SY |
| | Sta 3787+40 Lt | 84 | SY |

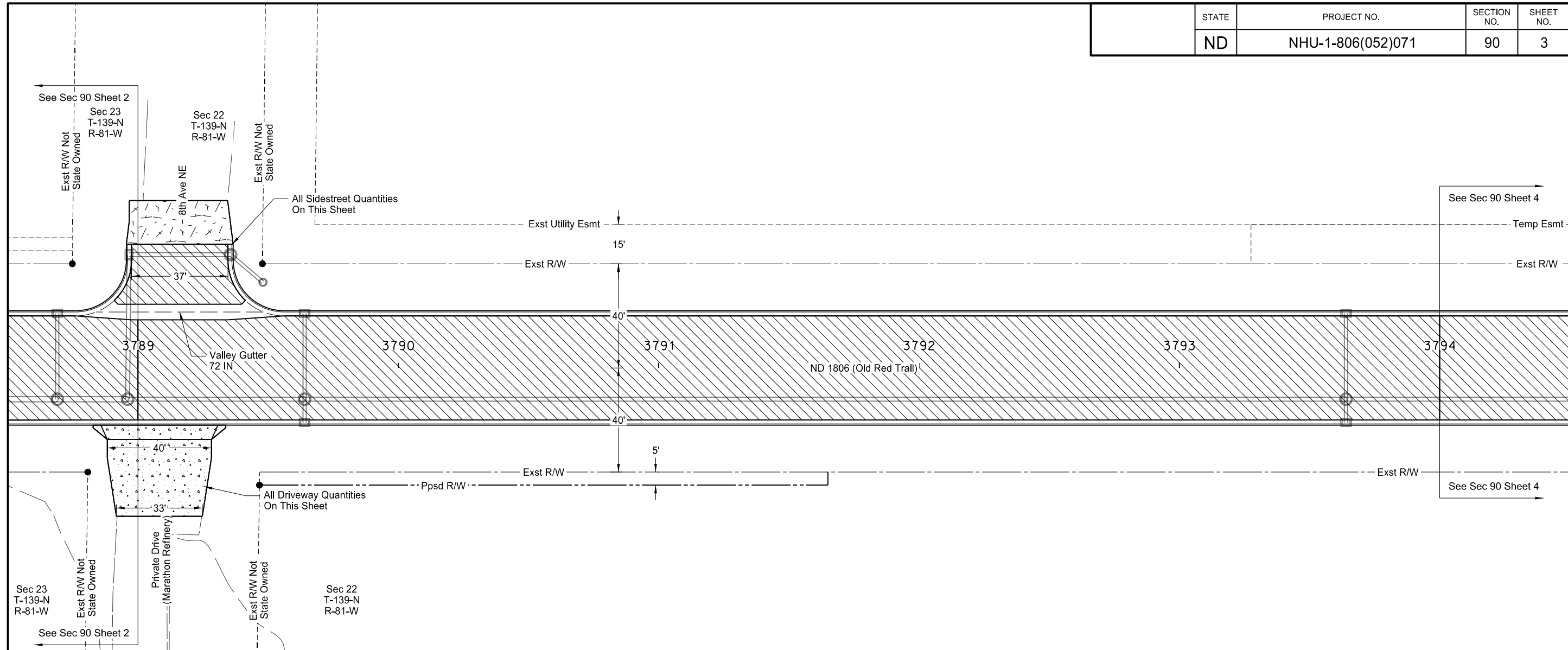
| LONGITUDINAL JOINT TIE BAR SIZE, LENGTH, & SPACING | | | | |
|--|----------|-------------|--------------------|---------|
| Pavement Thickness | Location | Steel Grade | Bare Size & Length | Spacing |
| 8.0" | 1 | 40 | #5 Bar x 30" | 48" |
| | | 60 | #4 Bar x 36" | 48" |
| | 2 | 40 | #6 Bar x 36" | 48" |
| | | 60 | #5 Bar x 42" | 48" |
| | 3 | 40 | #6 Bar x 36" | 30" |
| | | 60 | #5 Bar x 42" | 32" |
| | 4 | 40 | #6 Bar x 36" | 30" |
| | | 60 | #6 Bar x 48" | 32" |
| | 5 | 40 | #6 Bar x 36" | 48" |
| | | 60 | #5 Bar x 42" | 45" |
| | 6 | 40 | #5 Bar x 30" | 39" |
| | | 60 | #5 Bar x 42" | 48" |

| PT # | | STA / OFFSET | RAD PT |
|------|-----|----------------------|------------------------|
| 1 | PC | 3782+25.44, 13.0' LT | 3782+21.91, 225.5' LT |
| 3 | MID | 3783+49.72, 14.0' LT | |
| 5 | PT | 3784+74.06, 13.0' LT | R = 212.566' |
| 2 | PC | 3782+25.44, 13.0' RT | 3783+49.59, 207.75' LT |
| 4 | MID | 3783+49.72, 15.0' LT | |
| 6 | PT | 3784+74.06, 13.0' RT | R = 222.754' |



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Sta 3784+00 to 3789+00



LEGEND

| | |
|--|--|
| | 5IN HMA FAA 45 on 12IN CL 5 on Type G |
| | 4IN HMA FAA 45 on 12IN CL 5* |
| | 4IN HMA FAA 45 on 4IN CL5 (Trail) |
| | 2.5IN HMA FAA 45 (Overlay) |
| | 4IN Sidewalk Concrete on 4IN CL 5 |
| | 8IN Driveway Concrete on 4IN CL 5 |
| | Pigmented Imprinted Concrete |
| | 8IN Non Reif Concrete Pvmt CL AE-Doweled on 8IN CL 5 on Type G |
| | Pavement Reinforcement (See Section 20 Sheet 8) |
| | Non Reif Concrete Pvmt CL AE Doweled-Colored (8IN) on 8IN CL 5 on Type G |
| | Aggregate Surface Course CL 5 |
| | Detectable Warning Panels |
| | Longitudinal Keyed Joint (See Standard Drawing D550-2) |
| | Tied Joint (See Standard Drawing D550-2) |
| | Doweled Joint (See Standard Drawing D550-3) |
| | 2" Dia Core Hole |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---------------------------------------|-------|------|
| 302 0120 | AGGREGATE BASE COURSE CL 5 | | |
| | Sta 3789+00 to Sta 3794+00 (Mainline) | 1,678 | TON |
| | Sta 3789+10 Rt (Driveway) | 53 | TON |
| | Sta 3789+15 Lt (8th Ave NE) | 65 | TON |
| 302 0320 | AGGREGATE SURFACE COURSE CL 5 | | |
| | Sta 3789+15 Lt (8th Ave NE) | 23 | TON |
| 401 0050 | TACK COAT | | |
| | Sta 3789+00 to Sta 3794+00 (Mainline) | 354 | GAL |
| | Sta 3789+15 Lt (8th Ave NE) | 17 | GAL |
| 430 0045 | SUPERPAVE FAA 45 | | |
| | Sta 3789+00 to Sta 3794+00 (Mainline) | 615 | TON |
| | Sta 3789+15 Lt (8th Ave NE) | 29 | TON |
| 430 5806 | PG 58H-28 ASPHALT CEMENT | | |
| | Sta 3789+00 to Sta 3794+00 (Mainline) | 36.9 | TON |
| | Sta 3789+15 Lt (8th Ave NE) | 1.7 | TON |
| 709 0100 | GEOSYNTHETIC MATERIAL TYPE G | | |
| | Sta 3789+00 to Sta 3794+00 | 2,780 | SY |
| | Sta 3789+15 Lt (8th Ave NE) | 145 | SY |
| 748 0140 | CURB & GUTTER-TYPE I | | |
| | Sta 3789+00 to Sta 3794+00 | 1,019 | LF |

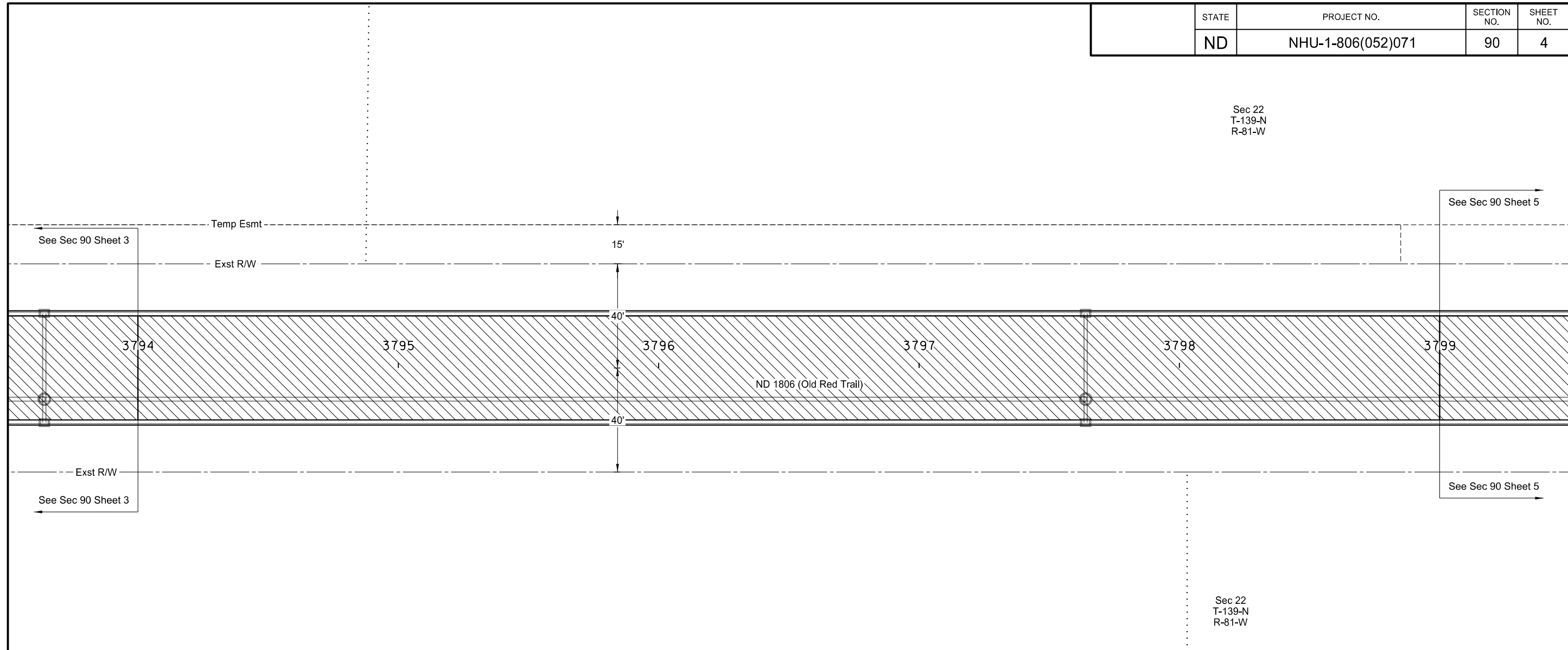
| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|-----------------------|-----|------|
| 748 1030 | VALLEY GUTTER 72IN | | |
| | Sta 3789+15 Lt | 41 | SY |
| 750 1020 | DRIVEWAY CONCRETE 8IN | | |
| | Sta 3789+10 Rt | 151 | SY |

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 ND 1806
 Sta 3789+00 to 3794+00

| | | | |
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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 90 | 4 |

Sec 22
T-139-N
R-81-W



See Sec 90 Sheet 5

See Sec 90 Sheet 3

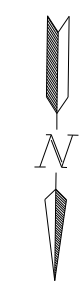
See Sec 90 Sheet 3

See Sec 90 Sheet 5

Sec 22
T-139-N
R-81-W

| LEGEND | |
|--------|--|
| | 5IN HMA FAA 45 on 12IN CL 5 on Type G |
| | 4IN HMA FAA 45 on 12IN CL 5* |
| | 4IN HMA FAA 45 on 4IN CL5 (Trail) |
| | 2.5IN HMA FAA 45 (Overlay) |
| | 4IN Sidewalk Concrete on 4IN CL 5 |
| | 8IN Driveway Concrete on 4IN CL 5 |
| | Pigmented Imprinted Concrete |
| | 8IN Non Reif Concrete Pvmt CL AE-Doweled on 8IN CL 5 on Type G |
| | Pavement Reinforcement (See Section 20 Sheet 8) |
| | Non Reif Concrete Pvmt CL AE Doweled-Colored (8IN) on 8IN CL 5 on Type G |
| | Aggregate Surface Course CL 5 |
| | Detectable Warning Panels |
| | Longitudinal Keyed Joint (See Standard Drawing D550-2) |
| | Tied Joint (See Standard Drawing D550-2) |
| | Doweled Joint (See Standard Drawing D550-3) |
| | 2" Dia Core Hole |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|--|-------|------|
| 302 0120 | AGGREGATE BASE COURSE CL 5 Sta 3794+00 to Sta 3799+00 | 1,667 | TON |
| 401 0050 | TACK COAT Sta 3794+00 to Sta 3799+00 | 356 | GAL |
| 430 0045 | SUPERPAVE FAA 45 Sta 3794+00 to Sta 3799+00 | 617 | TON |
| 430 5806 | PG 58H-28 ASPHALT CEMENT Sta 3794+00 to Sta 3799+00 | 37.0 | TON |
| 709 0100 | GEOSYNTHETIC MATERIAL TYPE G Sta 3794+00 to Sta 3799+00 | 2,778 | SY |
| 748 0140 | CURB & GUTTER-TYPE I Sta 3794+00 to Sta 3799+00 | 1,000 | LF |

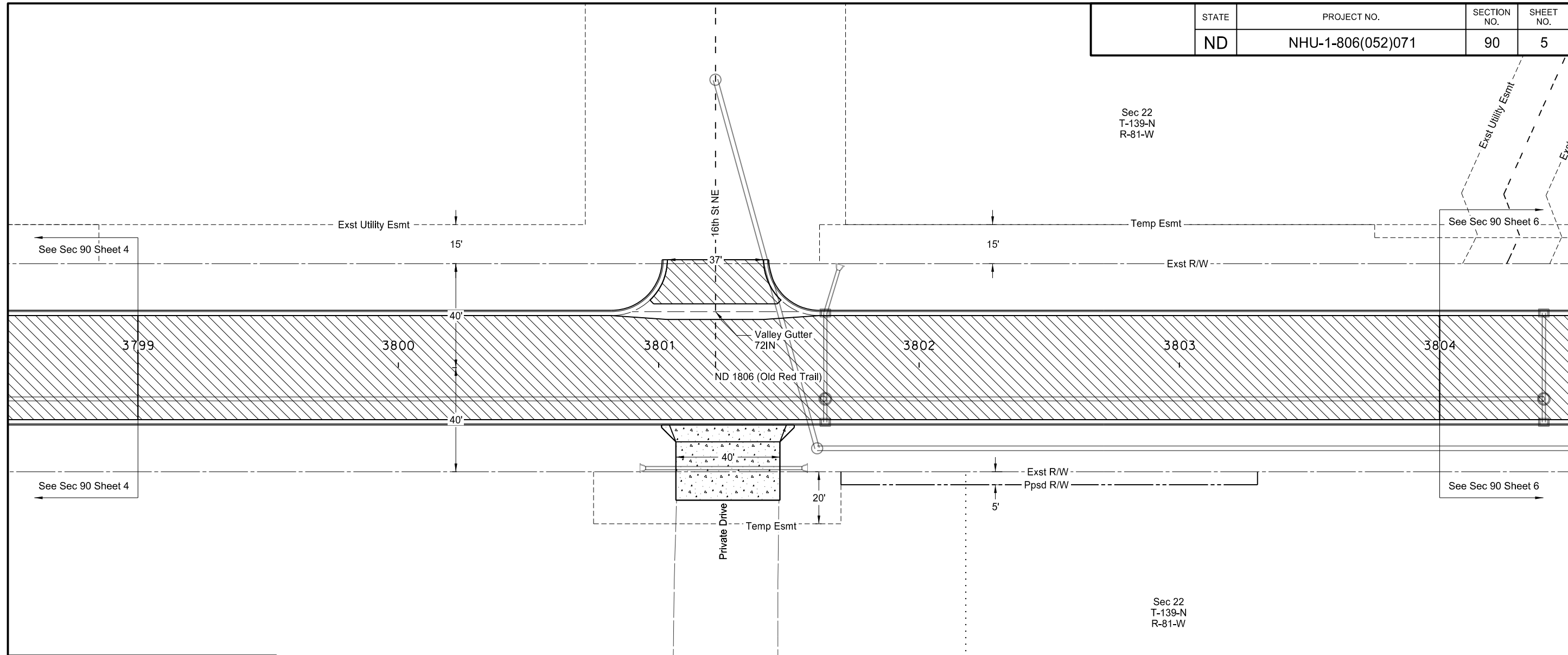


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ND 1806
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ND 1806
Sta 3794+00 to 3799+00

*PR1806; Sta 3821+57.00 to Sta 3850+56.00

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|-------|-------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 90 | 5 |



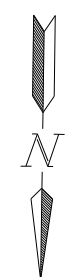
Sec 22
T-139-N
R-81-W

Sec 22
T-139-N
R-81-W

| LEGEND | |
|--------|--|
| | 5IN HMA FAA 45 on 12IN CL 5 on Type G |
| | 4IN HMA FAA 45 on 12IN CL 5* |
| | 4IN HMA FAA 45 on 4IN CL5 (Trail) |
| | 2.5IN HMA FAA 45 (Overlay) |
| | 4IN Sidewalk Concrete on 4IN CL 5 |
| | 8IN Driveway Concrete on 4IN CL 5 |
| | Pigmented Imprinted Concrete |
| | 8IN Non Reif Concrete Pvmt CL AE-Doweled on 8IN CL 5 on Type G |
| | Pavement Reinforcement (See Section 20 Sheet 8) |
| | Non Reif Concrete Pvmt CL AE Doweled-Colored (8IN) on 8IN CL 5 on Type G |
| | Aggregate Surface Course CL 5 |
| | Detectable Warning Panels |
| | Longitudinal Keyed Joint (See Standard Drawing D550-2) |
| | Tied Joint (See Standard Drawing D550-2) |
| | Doweled Joint (See Standard Drawing D550-3) |
| | 2" Dia Core Hole |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---------------------------------------|-------|------|
| 302 0120 | AGGREGATE BASE COURSE CL 5 | | |
| | Sta 3799+00 to Sta 3804+00 (Mainline) | 1,670 | TON |
| | Sta 3801+20 Lt (16th St NE) | 67 | TON |
| | Sta 3801+25 Rt (Driveway) | 28 | TON |
| 401 0050 | TACK COAT | | |
| | Sta 3799+00 to Sta 3804+00 (Mainline) | 354 | GAL |
| | Sta 3801+20 Lt (16th St NE) | 13 | GAL |
| 430 0045 | SUPERPAVE FAA 45 | | |
| | Sta 3799+00 to Sta 3804+00 (Mainline) | 615 | TON |
| | Sta 3801+20 Lt (16th St NE) | 22 | TON |
| 430 5806 | PG 58H-28 ASPHALT CEMENT | | |
| | Sta 3799+00 to Sta 3804+00 (Mainline) | 36.9 | TON |
| | Sta 3801+20 Lt (16th St NE) | 1.3 | TON |
| 709 0100 | GEOSYNTHETIC MATERIAL TYPE G | | |
| | Sta 3799+00 to Sta 3804+00 (Mainline) | 2,765 | SY |
| | Sta 3801+20 Lt (16th St NE) | 114 | SY |

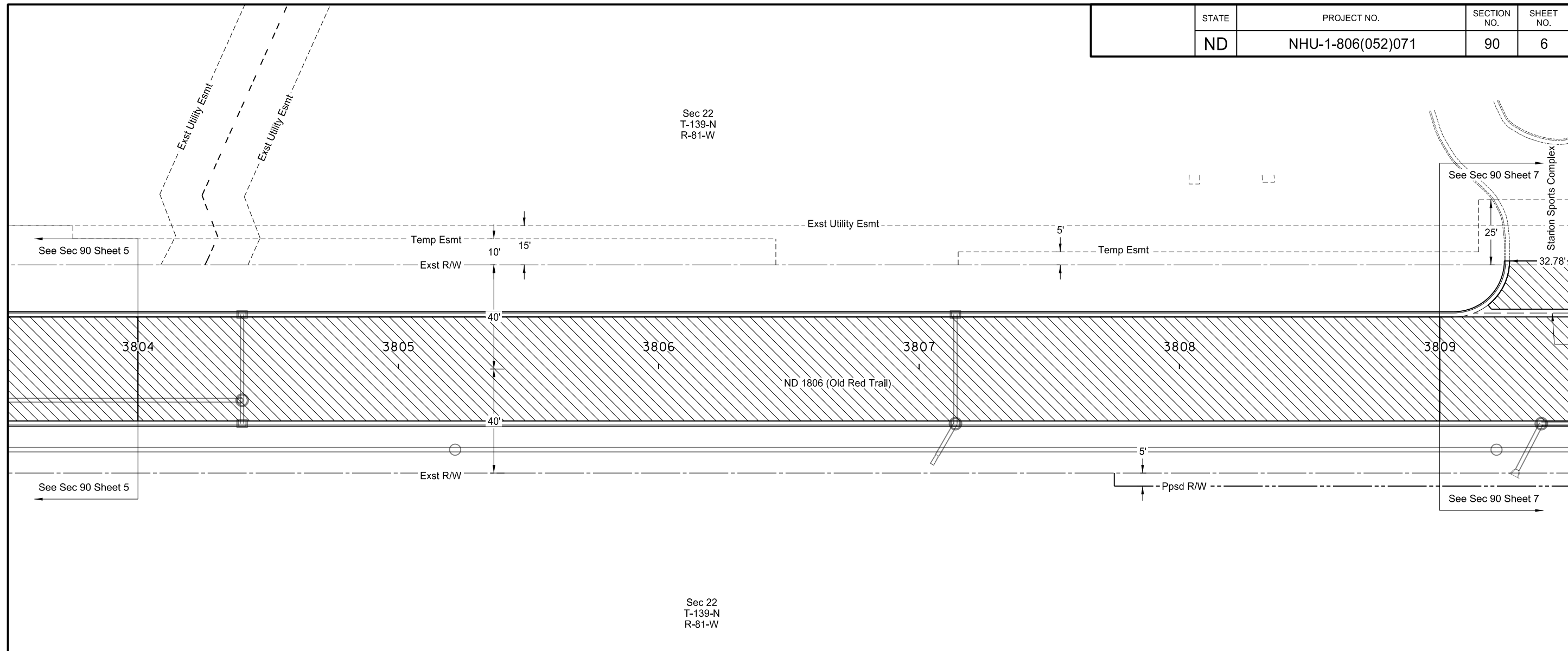
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|-----------|----------------------------|-----|------|
| 748 0140 | CURB & GUTTER-TYPE I | | |
| | Sta 3799+00 to Sta 3804+00 | 983 | LF |
| 748 1030 | VALLEY GUTTER 72IN | | |
| | Sta 3801+25 Lt | 41 | SY |
| 750 1020 | DRIVEWAY CONCRETE 8IN | | |
| | Sta 3801+25 Rt | 133 | SY |



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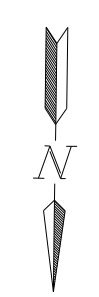
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 Paving Layouts
 ND 1806
 Sta 3799+00 to 3804+00

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|-------|-------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 90 | 6 |



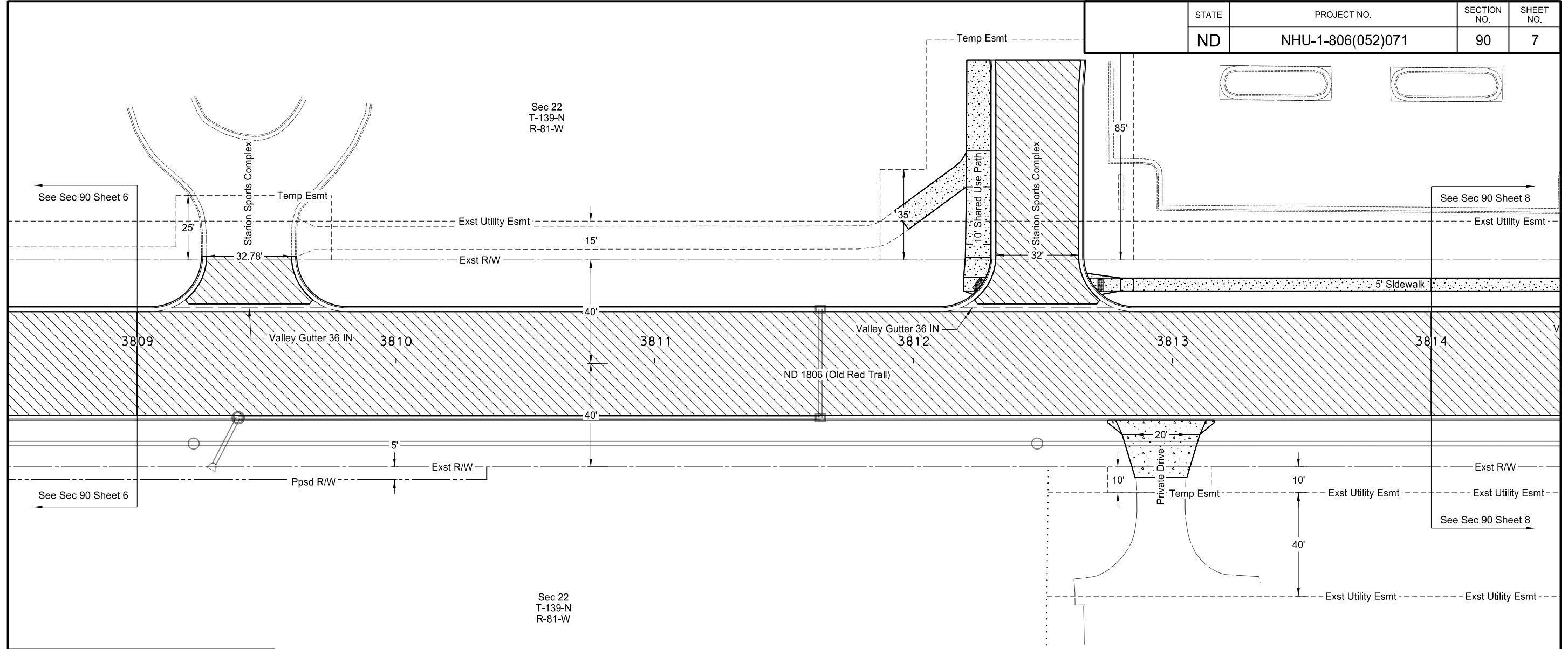
| LEGEND | |
|--------|--|
| | 5IN HMA FAA 45 on 12IN CL 5 on Type G |
| | 4IN HMA FAA 45 on 12IN CL 5* |
| | 4IN HMA FAA 45 on 4IN CL5 (Trail) |
| | 2.5IN HMA FAA 45 (Overlay) |
| | 4IN Sidewalk Concrete on 4IN CL 5 |
| | 8IN Driveway Concrete on 4IN CL 5 |
| | Pigmented Imprinted Concrete |
| | 8IN Non Reif Concrete Pvmt CL AE-Doweled on 8IN CL 5 on Type G |
| | Pavement Reinforcement (See Section 20 Sheet 8) |
| | Non Reif Concrete Pvmt CL AE Doweled-Colored (8IN) on 8IN CL 5 on Type G |
| | Aggregate Surface Course CL 5 |
| | Detectable Warning Panels |
| | Longitudinal Keyed Joint (See Standard Drawing D550-2) |
| | Tied Joint (See Standard Drawing D550-2) |
| | Doweled Joint (See Standard Drawing D550-3) |
| | 2" Dia Core Hole |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|--|-------|------|
| 302 0120 | AGGREGATE BASE COURSE CL 5 Sta 3804+00 to Sta 3809+00 | 1,667 | TON |
| 401 0050 | TACK COAT Sta 3804+00 to Sta 3809+00 | 356 | GAL |
| 430 0045 | SUPERPAVE FAA 45 Sta 3804+00 to Sta 3809+00 | 617 | TON |
| 430 5806 | PG 58H-28 ASPHALT CEMENT Sta 3804+00 to Sta 3809+00 | 37.0 | TON |
| 709 0100 | GEOSYNTHETIC MATERIAL TYPE G Sta 3804+00 to Sta 3809+00 | 2,778 | SY |
| 748 0140 | CURB & GUTTER-TYPE I Sta 3804+00 to Sta 3809+00 | 1,000 | LF |



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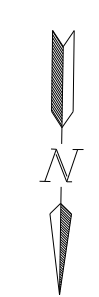
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 ND 1806
 Sta 3804+00 to 3809+00



| LEGEND | |
|--------|--|
| | 5IN HMA FAA 45 on 12IN CL 5 on Type G |
| | 4IN HMA FAA 45 on 12IN CL 5* |
| | 4IN HMA FAA 45 on 4IN CL5 (Trail) |
| | 2.5IN HMA FAA 45 (Overlay) |
| | 4IN Sidewalk Concrete on 4IN CL 5 |
| | 8IN Driveway Concrete on 4IN CL 5 |
| | Pigmented Imprinted Concrete |
| | 8IN Non Reif Concrete Pvmt CL AE-Doweled on 8IN CL 5 on Type G |
| | Pavement Reinforcement (See Section 20 Sheet 8) |
| | Non Reif Concrete Pvmt CL AE Doweled-Colored (8IN) on 8IN CL 5 on Type G |
| | Aggregate Surface Course CL 5 |
| | Detectable Warning Panels |
| | Longitudinal Keyed Joint (See Standard Drawing D550-2) |
| | Tied Joint (See Standard Drawing D550-2) |
| | Doweled Joint (See Standard Drawing D550-3) |
| | 2" Dia Core Hole |

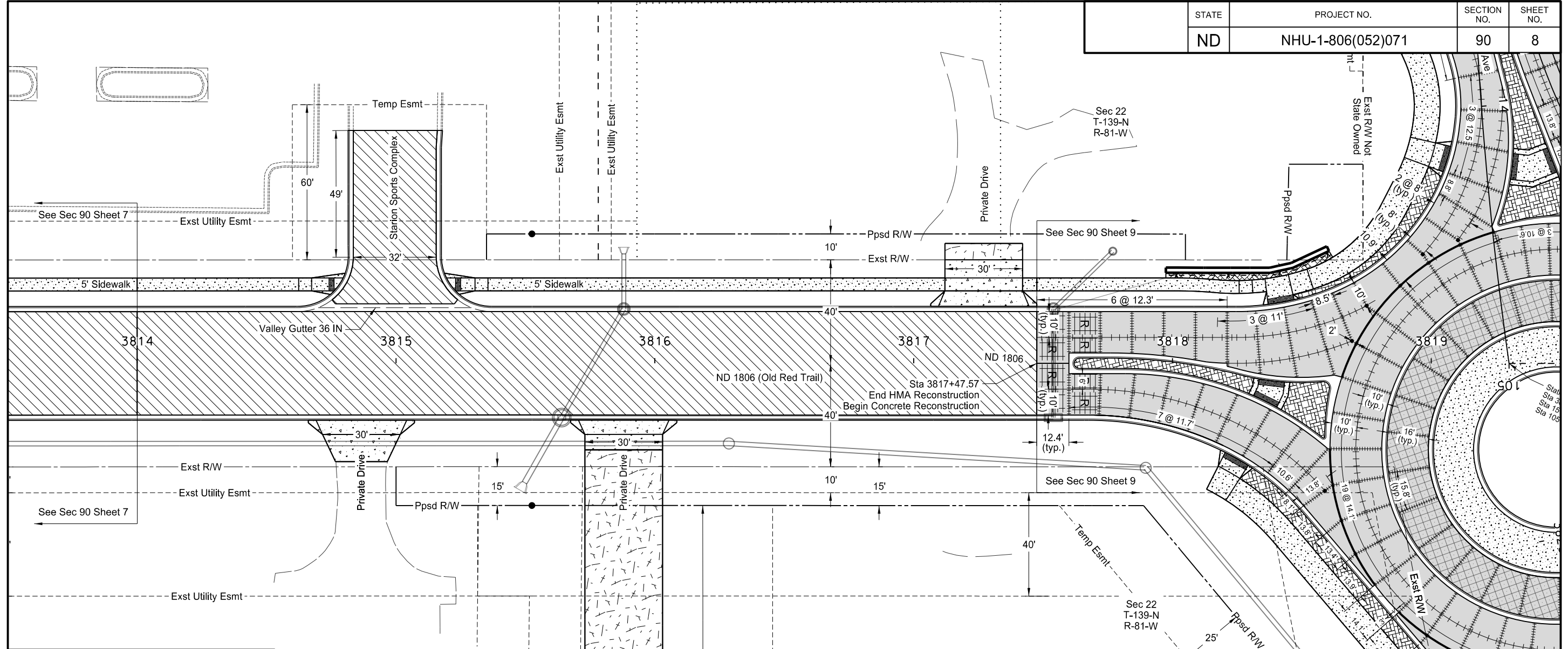
| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------|------|
| 302 0120 | AGGREGATE BASE COURSE CL 5 | | |
| | Sta 3809+00 to Sta 3814+00 (Mainline) | 1,658 | TON |
| | Sta 3809+40 Lt (Starion Sports Complex) | 68 | TON |
| | Sta 3812+45 Lt (Starion Sports Complex) | 277 | TON |
| | Sta 3812+95 Rt (Driveway) | 15 | TON |
| | Sta 3809+00 Lt to Sta 3814+00 Lt (Sidewalk) | 42 | TON |
| 401 0050 | TACK COAT | | |
| | Sta 3809+00 to Sta 3814+00 (Mainline) | 356 | GAL |
| | Sta 3809+40 Lt (Starion Sports Complex) | 13 | GAL |
| | Sta 3812+45 Lt (Starion Sports Complex) | 56 | GAL |
| 430 0045 | SUPERPAVE FAA 45 | | |
| | Sta 3809+00 to Sta 3814+00 (Mainline) | 617 | TON |
| | Sta 3809+40 Lt (Starion Sports Complex) | 22 | TON |
| | Sta 3812+45 Lt (Starion Sports Complex) | 97 | TON |
| 430 5806 | PG 58H-28 ASPHALT CEMENT | | |
| | Sta 3809+00 to Sta 3814+00 (Mainline) | 37.0 | TON |
| | Sta 3809+40 Lt (Starion Sports Complex) | 1.3 | TON |
| | Sta 3812+45 Lt (Starion Sports Complex) | 5.8 | TON |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------|------|
| 709 0100 | GEOSYNTHETIC MATERIAL TYPE G | | |
| | Sta 3809+00 to Sta 3814+00 (Mainline) | 2,736 | SY |
| | Sta 3809+40 Lt (Starion Sports Complex) | 114 | SY |
| | Sta 3812+45 Lt (Starion Sports Complex) | 467 | SY |
| 748 0140 | CURB & GUTTER-TYPE I | | |
| | Sta 3809+00 to Sta 3814+00 | 1,126 | LF |
| 748 1020 | VALLEY GUTTER 36IN | | |
| | Sta 3809+40 Lt | 21 | SY |
| | Sta 3812+45 Lt | 21 | SY |
| 750 0115 | SIDEWALK CONCRETE 4IN | | |
| | Sta 3809+00 Lt to Sta 3814+00 Lt | 198 | SY |
| 750 1020 | DRIVEWAY CONCRETE 8IN | | |
| | Sta 3812+95 Rt | 68 | SY |
| 750 2115 | DETECTABLE WARNING PANELS | | |
| | Sta 3812+25 30'Lt | 10 | SF |
| | Sta 3812+72 30'Lt | 10 | SF |



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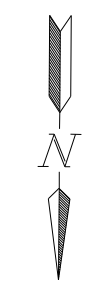
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 Sta 3809+00 to 3814+00



| LEGEND | |
|--------|--|
| | 5IN HMA FAA 45 on 12IN CL 5 on Type G |
| | 4IN HMA FAA 45 on 12IN CL 5* |
| | 4IN HMA FAA 45 on 4IN CL5 (Trail) |
| | 2.5IN HMA FAA 45 (Overlay) |
| | 4IN Sidewalk Concrete on 4IN CL 5 |
| | 8IN Driveway Concrete on 4IN CL 5 |
| | Pigmented Imprinted Concrete |
| | 8IN Non Reif Concrete Pvmt CL AE-Doweled on 8IN CL 5 on Type G |
| | Pavement Reinforcement (See Section 20 Sheet 8) |
| | Non Reif Concrete Pvmt CL AE Doweled-Colored (8IN) on 8IN CL 5 on Type G |
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| | Detectable Warning Panels |
| | Longitudinal Keyed Joint (See Standard Drawing D550-2) |
| | Tied Joint (See Standard Drawing D550-2) |
| | Doweled Joint (See Standard Drawing D550-3) |
| | 2" Dia Core Hole |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|--|-------|------|
| 302 0120 | AGGREGATE BASE COURSE CL 5 | | |
| | Sta 3814+00 to Sta 3817+47.57 (Mainline) | 1,155 | TON |
| | Sta 3814+85 Rt (Driveway) | 11 | TON |
| | Sta 3815+00 Lt (Starion Sports Complex) | 201 | TON |
| | Sta 3814+00 Lt to Sta 3817+47.57 Lt | 33 | TON |
| | Sta 3815+88 Rt (Driveway) | 9 | TON |
| | Sta 3817+27 Lt (Driveway) | 14 | TON |
| 302 0320 | AGGREGATE SURFACE COURSE CL 5 | | |
| | Sta 3815+88 Rt (Driveway) | 143 | TON |
| | Sta 3817+27 Lt (Driveway) | 7 | TON |
| 401 0050 | TACK COAT | | |
| | Sta 3814+00 to Sta 3817+47.57 (Mainline) | 247 | GAL |
| | Sta 3815+00 Lt (Starion Sports Complex) | 40 | GAL |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|--|-------|------|
| 430 0045 | SUPERPAVE FAA 45 | | |
| | Sta 3814+00 to Sta 3817+47.57 (Mainline) | 429 | TON |
| | Sta 3815+00 Lt (Starion Sports Complex) | 70 | TON |
| 430 5806 | PG 58H-28 ASPHALT CEMENT | | |
| | Sta 3814+00 to Sta 3817+47.57 (Mainline) | 25.7 | TON |
| | Sta 3815+00 Lt (Starion Sports Complex) | 4.2 | TON |
| 709 0100 | GEOSYNTHETIC MATERIAL TYPE G | | |
| | Sta 3814+00 to Sta 3817+47.57 (Mainline) | 1,910 | SY |
| | Sta 3815+00 Lt (Starion Sports Complex) | 339 | SY |
| 748 0140 | CURB & GUTTER-TYPE I | | |
| | Sta 3814+00 to Sta 3817+47.57 | 779 | LF |
| 748 1020 | VALLEY GUTTER 36IN | | |
| | Sta 3815+00 Lt | 21 | SY |
| 750 0115 | SIDEWALK CONCRETE 4IN | | |
| | Sta 3815+24 Lt to 3817+47.57 Lt | 156 | SY |
| 750 1020 | DRIVEWAY CONCRETE 8IN | | |
| | Sta 3814+85 Rt | 51 | SY |
| | Sta 3815+88 Rt (Driveway) | 42 | SY |
| | Sta 3817+27 Lt (Driveway) | 64 | SY |
| 750 2115 | DETECTABLE WARNING PANELS | | |
| | Sta 3814+75 30"Lt | 10 | SF |
| | Sta 3815+24 30"Lt | 10 | SF |



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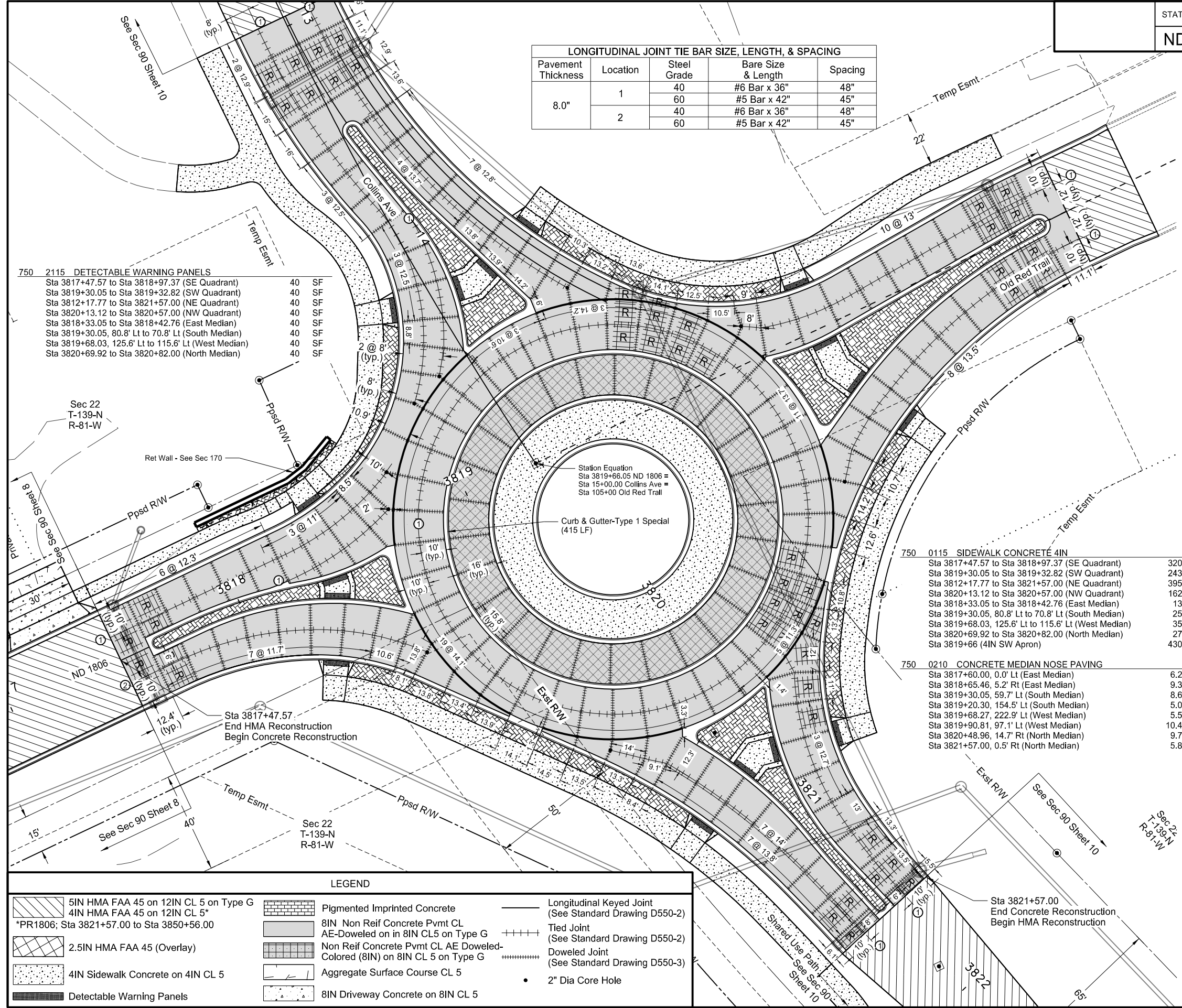
ND 1806
 Paving Layouts
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 Sta 3814+00 to 3817+47.57

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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 90 | 9 |

| LONGITUDINAL JOINT TIE BAR SIZE, LENGTH, & SPACING | | | | |
|--|----------|-------------|-------------------|---------|
| Pavement Thickness | Location | Steel Grade | Bar Size & Length | Spacing |
| 8.0" | 1 | 40 | #6 Bar x 36" | 48" |
| | | 60 | #5 Bar x 42" | 45" |
| | 2 | 40 | #6 Bar x 36" | 48" |
| | | 60 | #5 Bar x 42" | 45" |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|--|-------|------|
| 302 | 0120 AGGREGATE BASE COURSE CL 5 | | |
| | Sta 3817+47.57 to Sta 3821+57 (Roadway) | 2,299 | TON |
| | Sta 3817+47.57 to Sta 3821+57 (Sidewalks) | 255 | TON |
| | Sta 3817+47.57 to Sta 3821+57 (Imprinted Concrete) | 61 | TON |
| | Sta 3819+66 (4IN SW Apron) | 90 | TON |
| | Sta 102+37.5 to Sta 102+66.5 (Old Red Trail) | 89 | TON |
| 401 | 0050 TACK COAT | | |
| | Sta 102+37.5 to Sta 102+66.5 (Old Red Trail) | 23 | GAL |
| 430 | 0045 SUPERPAVE FAA 45 | | |
| | Sta 102+37.5 to Sta 102+66.5 (Old Red Trail) | 40 | TON |
| 430 | 5806 PG 58H-28 ASPHALT CEMENT | | |
| | Sta 102+37.5 to Sta 102+66.5 (Old Red Trail) | 2.4 | TON |
| 550 | 0300 8IN NON-REINF CONCRETE PVMT CL AE-DOWELED | | |
| | Sta 3817+47.57 to Sta 3821+57 (Mainline) | 3,551 | SY |
| 550 | 0330 NON-REINF CONCRETE PVMT CL AE-DOWELED-COLORED | | |
| | Sta 3819+66 (Truck Apron) | 642 | SY |
| 709 | 0100 GEOSYNTHETIC MATERIAL TYPE G | | |
| | Sta 3817+47.57 to Sta 3821+57 (Mainline) | 4,837 | SY |
| | Sta 3819+66 (Truck Apron) | 873 | SY |
| 748 | 0140 CURB & GUTTER-TYPE I | | |
| | Sta 3817+47.57 to Sta 3818+97.37 (SE Quadrant) | 311 | LF |
| | Sta 3819+30.05 to Sta 3819+47.00 (SW Quadrant) | 347 | LF |
| | Sta 3817+47.57 to Sta 3821+57 (NE Quadrant) | 317 | LF |
| | Sta 3820+06.00 to Sta 3821+57 (NW Quadrant) | 298 | LF |
| | Sta 3817+60.17 to Sta 3818+65.00 (East Median) | 229 | LF |
| | Sta 3819+19.30, 155' Lt to 55' Lt (South Median) | 234 | LF |
| | Sta 3819+68.95 to Sta 3819+90.82 (West Median) | 279 | LF |
| | Sta 3820+48.98 to Sta 3821+57.00 (North Median) | 242 | LF |
| | Sta 3819+66 (4IN SW Apron) | 493 | LF |
| | Sta 102+37.5 to Sta 102+66.5 (Old Red Trail) | 58 | LF |
| 748 | 0141 CURB & GUTTER-TYPE 1 SPECIAL | | |
| | Outside Edge Truck Apron / Inside Edge Mainline | 415 | LF |
| 750 | 0030 PIGMENTED IMPRINTED CONCRETE | | |
| | Sta 3817+47.57 to Sta 3818+97.37 (SE Quadrant) | 30 | SY |
| | Sta 3817+97 to Sta 3818+61 (Ret Wall) | 18 | SY |
| | Sta 3819+30.05 to Sta 3819+47.00 (SW Quadrant) | 67 | SY |
| | Sta 3817+47.57 to Sta 3821+57.00 (NE Quadrant) | 98 | SY |
| | Sta 3820+06.00 to Sta 3821+57.00 (NW Quadrant) | 79 | SY |
| | Sta 3817+60.17 to Sta 3818+65.00 (East Median) | 62 | SY |
| | Sta 3819+19.30, 155' Lt to 55' Lt (South Median) | 82 | SY |
| | Sta 3819+68.95 to Sta 3819+90.82 (West Median) | 129 | SY |
| | Sta 3820+48.98 to Sta 3821+57.00 (North Median) | 84 | SY |
| 750 | 0115 SIDEWALK CONCRETE 4IN | | |
| | Sta 3817+47.57 to Sta 3818+97.37 (SE Quadrant) | 320 | SY |
| | Sta 3819+30.05 to Sta 3819+32.82 (SW Quadrant) | 243 | SY |
| | Sta 3812+17.77 to Sta 3821+57.00 (NE Quadrant) | 395 | SY |
| | Sta 3820+13.12 to Sta 3820+57.00 (NW Quadrant) | 162 | SY |
| | Sta 3818+33.05 to Sta 3818+42.76 (East Median) | 13 | SY |
| | Sta 3819+30.05, 80.8' Lt to 70.8' Lt (South Median) | 25 | SY |
| | Sta 3819+68.03, 125.6' Lt to 115.6' Lt (West Median) | 35 | SY |
| | Sta 3820+69.92 to Sta 3820+82.00 (North Median) | 27 | SY |
| | Sta 3819+66 (4IN SW Apron) | 430 | SY |
| 750 | 0210 CONCRETE MEDIAN NOSE PAVING | | |
| | Sta 3817+60.00, 0.0' Lt (East Median) | 6.2 | SY |
| | Sta 3818+65.46, 5.2' Rt (East Median) | 9.3 | SY |
| | Sta 3819+30.05, 59.7' Lt (South Median) | 8.6 | SY |
| | Sta 3819+20.30, 154.5' Lt (South Median) | 5.0 | SY |
| | Sta 3819+68.27, 222.9' Lt (West Median) | 5.5 | SY |
| | Sta 3819+90.81, 97.1' Lt (West Median) | 10.4 | SY |
| | Sta 3820+48.96, 14.7' Rt (North Median) | 9.7 | SY |
| | Sta 3821+57.00, 0.5' Rt (North Median) | 5.8 | SY |

| Item | Quantity | Unit |
|--|----------|------|
| 2115 DETECTABLE WARNING PANELS | | |
| Sta 3817+47.57 to Sta 3818+97.37 (SE Quadrant) | 40 | SF |
| Sta 3819+30.05 to Sta 3819+32.82 (SW Quadrant) | 40 | SF |
| Sta 3812+17.77 to Sta 3821+57.00 (NE Quadrant) | 40 | SF |
| Sta 3820+13.12 to Sta 3820+57.00 (NW Quadrant) | 40 | SF |
| Sta 3818+33.05 to Sta 3818+42.76 (East Median) | 40 | SF |
| Sta 3819+30.05, 80.8' Lt to 70.8' Lt (South Median) | 40 | SF |
| Sta 3819+68.03, 125.6' Lt to 115.6' Lt (West Median) | 40 | SF |
| Sta 3820+69.92 to Sta 3820+82.00 (North Median) | 40 | SF |

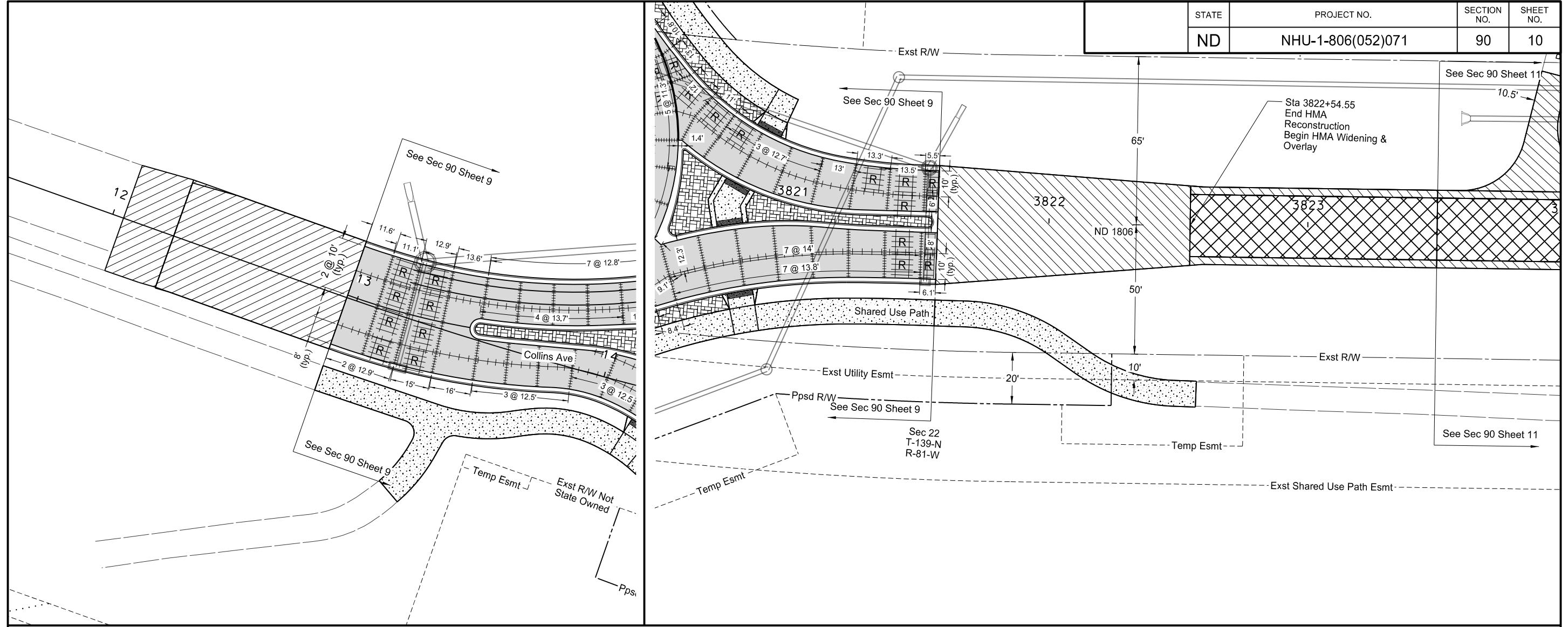


| LEGEND | | | |
|--------|---|--|--|
| | 5IN HMA FAA 45 on 12IN CL 5 on Type G | | Longitudinal Keyed Joint (See Standard Drawing D550-2) |
| | 4IN HMA FAA 45 on 12IN CL 5* *PR1806; Sta 3821+57.00 to Sta 3850+56.00 | | Tied Joint (See Standard Drawing D550-2) |
| | 2.5IN HMA FAA 45 (Overlay) | | Doweled Joint (See Standard Drawing D550-3) |
| | 4IN Sidewalk Concrete on 4IN CL 5 | | 2" Dia Core Hole |
| | Detectable Warning Panels | | |
| | Pigmented Imprinted Concrete | | |
| | 8IN Non Reif Concrete Pvmt CL AE-Doweled on in 8IN CL5 on Type G | | |
| | Non Reif Concrete Pvmt CL AE Doweled-Colored (8IN) on 8IN CL 5 on Type G | | |
| | Aggregate Surface Course CL 5 | | |
| | 8IN Driveway Concrete on 8IN CL 5 | | |

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 Sta 3817+47.57 to 3821+57.00

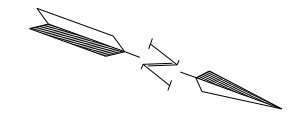
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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 90 | 10 |



| LEGEND | |
|--------|--|
| | 5IN HMA FAA 45 on 12IN CL 5 on Type G |
| | 4IN HMA FAA 45 on 12IN CL 5* |
| | 4IN HMA FAA 45 on 4IN CL5 (Trail) |
| | 2.5IN HMA FAA 45 (Overlay) |
| | 4IN Sidewalk Concrete on 4IN CL 5 |
| | 8IN Driveway Concrete on 4IN CL 5 |
| | Pigmented Imprinted Concrete |
| | 8IN Non Reif Concrete Pvmt CL |
| | AE-Doweled on 8IN CL 5 on Type G |
| | Pavement Reinforcement (See Section 20 Sheet 8) |
| | Non Reif Concrete Pvmt CL AE Doweled- Colored (8IN) on 8IN CL 5 on Type G |
| | Aggregate Surface Course CL 5 |
| | Detectable Warning Panels |
| | Longitudinal Keyed Joint (See Standard Drawing D550-2) |
| | Tied Joint (See Standard Drawing D550-2) |
| | Doweled Joint (See Standard Drawing D550-3) |
| | 2" Dia Core Hole |

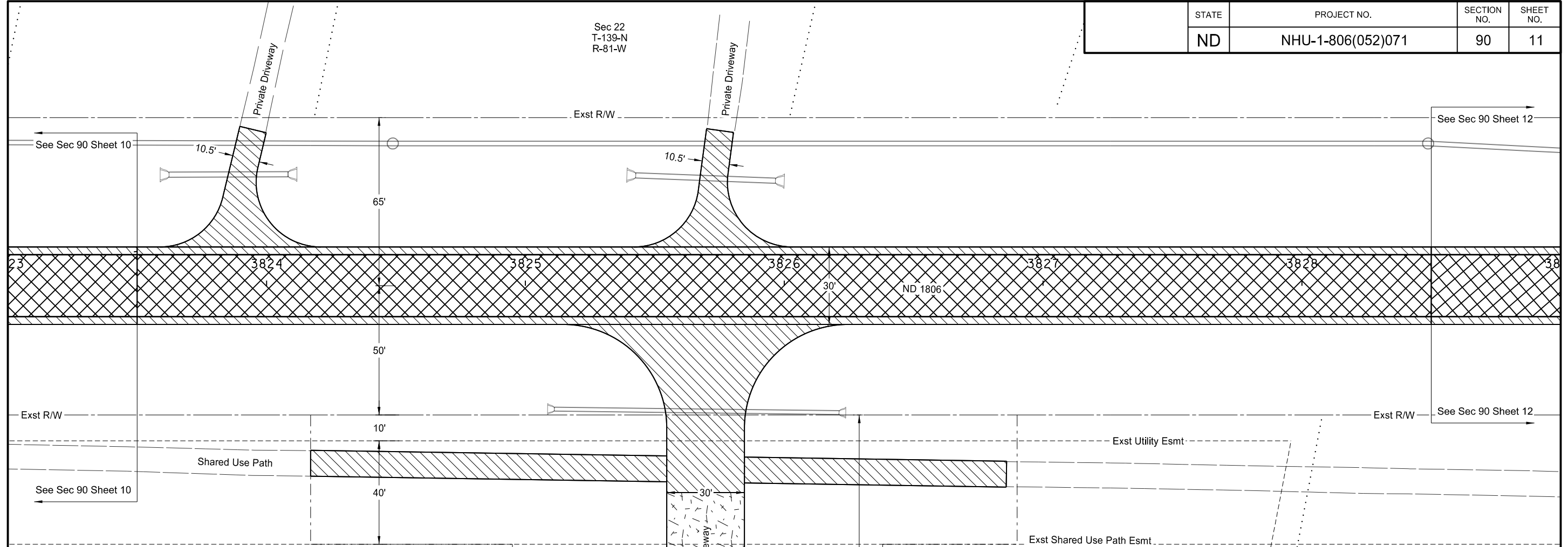
| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|--|-----|------|
| 302 0120 | AGGREGATE BASE COURSE CL 5 | | |
| | Sta 12+25 to Sta 13+19.26 (Collins Ave) | 305 | TON |
| | Sta 3821+57 to Sta 3822+54.55 (Mainline) | 289 | TON |
| | Sta 3822+54.55 to Sta 3823+50 (Widening) | 66 | TON |
| | Sta 3821+57 to Sta 3823+50 Rt (Path) | 54 | TON |
| 401 0050 | TACK COAT | | |
| | Sta 12+04.00 to Sta 12+96.00 (Collins Ave) | 72 | GAL |
| | Sta 3821+57 to Sta 3822+54.55 (Mainline) | 67 | GAL |
| | Sta 3822+54.55 to Sta 3823+50 (Overlay) | 20 | GAL |
| | Sta 3822+54.55 to Sta 3823+50 (Widening) | 10 | GAL |
| 430 0045 | SUPERPAVE FAA 45 | | |
| | Sta 12+04.00 to Sta 12+96.00 (Collins Ave) | 131 | TON |
| | Sta 3821+57 to Sta 3822+54.55 (Mainline) | 96 | TON |
| | Sta 3822+54.55 to Sta 3823+50 (Overlay) | 35 | TON |
| | Sta 3822+54.55 to Sta 3823+50 (Widening) | 17 | TON |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-----|------|
| 430 5806 | PG 58H-28 ASPHALT CEMENT | | |
| | Sta 12+04.00 to Sta 12+96.00 (Collins Ave) | 7.9 | TON |
| | Sta 3821+57 to Sta 3822+54.55 (Mainline) | 5.8 | TON |
| | Sta 3822+54.55 to Sta 3823+50 (Overlay) | 2.1 | TON |
| | Sta 3822+54.55 to Sta 3823+50 (Widening) | 1.0 | TON |
| 709 0100 | GEOSYNTHETIC MATERIAL TYPE G | | |
| | Sta 12+25.00 to Sta 12+96.00 (PRRBCOL) | 529 | SY |
| | Sta 3821+57.00 to Sta 3822+54.55 (Mainline) | 172 | SY |
| 750 0115 | SIDEWALK CONCRETE 4IN | | |
| | Sta 3821+57 Rt to Sta 3823+50 Rt | 120 | SY |



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 Sta 12+04.81 to 13+19.26 (PRRBCOL)



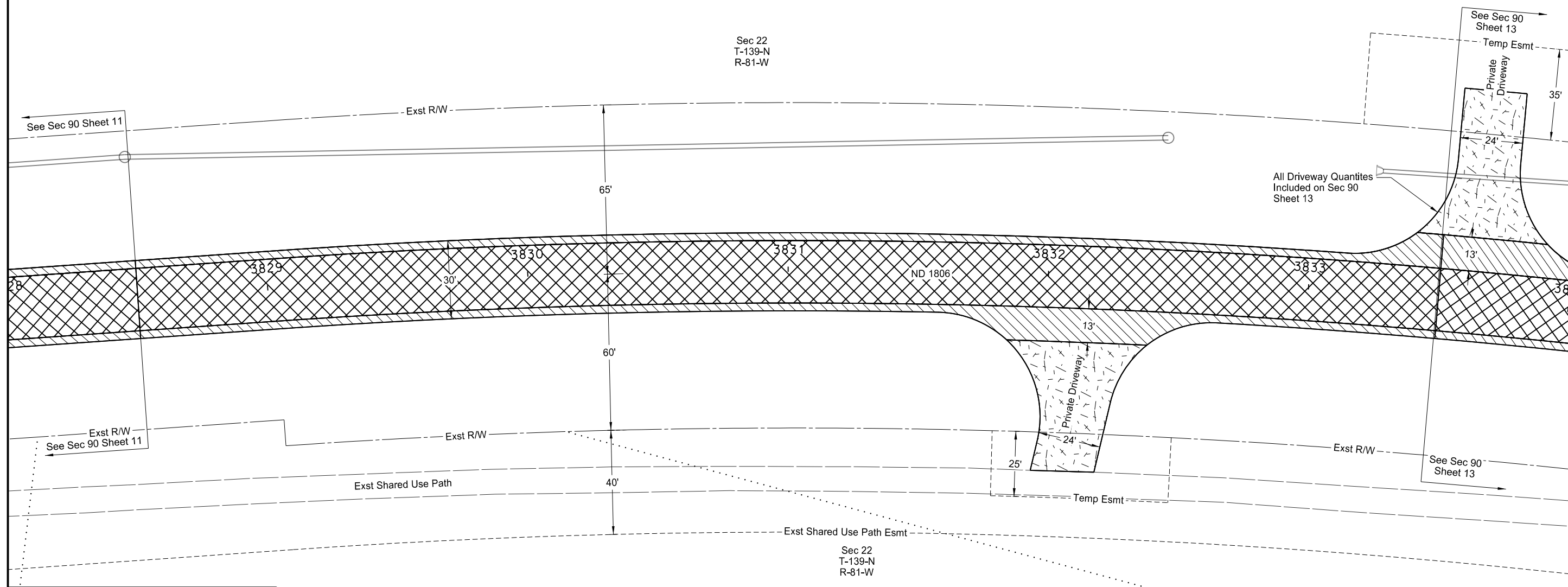
| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---------------------------------------|------|------|
| 302 0120 | AGGREGATE BASE COURSE CL 5 | | |
| | Sta 3823+50 to Sta 3828+50 (Widening) | 315 | TON |
| | Sta 3823+90 Lt (Driveway) | 72 | TON |
| | Sta 3824+26 Rt to 3826+86 Rt (Path) | 63 | TON |
| | Sta 3825+70 Lt (Driveway) | 70 | TON |
| | Sta 3825+70 Rt (Driveway) | 208 | TON |
| 302 0320 | AGGREGATE SURFACE COURSE CL 5 | | |
| | Sta 3825+70 Rt (Driveway) | 188 | TON |
| 401 0050 | TACK COAT | | |
| | Sta 3823+50 to Sta 3828+50 (Overlay) | 107 | GAL |
| | Sta 3823+50 to Sta 3828+50 (Widening) | 53 | GAL |
| | Sta 3823+90 Lt (Driveway) | 14 | GAL |
| | Sta 3824+26 Rt to 3826+86 Rt (Path) | 42 | GAL |
| | Sta 3825+70 Lt (Driveway) | 13 | GAL |
| | Sta 3825+70 Rt (Driveway) | 47 | GAL |
| 430 0045 | SUPERPAVE FAA 45 | | |
| | Sta 3823+50 to Sta 3828+50 (Overlay) | 185 | TON |
| | Sta 3823+50 to Sta 3828+50 (Widening) | 87 | TON |
| | Sta 3823+90 Lt (Driveway) | 22 | TON |
| | Sta 3824+26 Rt to 3826+86 Rt (Path) | 67 | TON |
| | Sta 3825+70 Lt (Driveway) | 21 | TON |
| | Sta 3825+70 Rt (Driveway) | 68 | TON |
| 430 5806 | PG 58H-28 ASPHALT CEMENT | | |
| | Sta 3823+50 to Sta 3828+50 (Overlay) | 11.1 | TON |
| | Sta 3823+50 to Sta 3828+50 (Widening) | 5.2 | TON |
| | Sta 3823+90 Lt (Driveway) | 1.3 | TON |
| | Sta 3824+26 Rt to 3826+86 Rt (Path) | 4.0 | TON |
| | Sta 3825+70 Lt (Driveway) | 1.2 | TON |
| | Sta 3825+70 Rt (Driveway) | 4.1 | TON |

| LEGEND | |
|--------|--|
| | 5IN HMA FAA 45 on 12IN CL 5 on Type G |
| | 4IN HMA FAA 45 on 12IN CL 5* |
| | 4IN HMA FAA 45 on 4IN CL5 (Trail) |
| | 2.5IN HMA FAA 45 (Overlay) |
| | 4IN Sidewalk Concrete on 4IN CL 5 |
| | 8IN Driveway Concrete on 4IN CL 5 |
| | Pigmented Imprinted Concrete |
| | 8IN Non Reif Concrete Pvmt CL AE-Doweled on 8IN CL 5 on Type G |
| | Pavement Reinforcement (See Section 20 Sheet 8) |
| | Non Reif Concrete Pvmt CL AE Doweled-Colored (8IN) on 8IN CL 5 on Type G |
| | Aggregate Surface Course CL 5 |
| | Detectable Warning Panels |
| | Longitudinal Keyed Joint (See Standard Drawing D550-2) |
| | Tied Joint (See Standard Drawing D550-2) |
| | Doweled Joint (See Standard Drawing D550-3) |
| | 2" Dia Core Hole |

*PR1806; Sta 3821+57.00 to Sta 3850+56.00

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All Driveway Quantities Included on Sec 90 Sheet 13

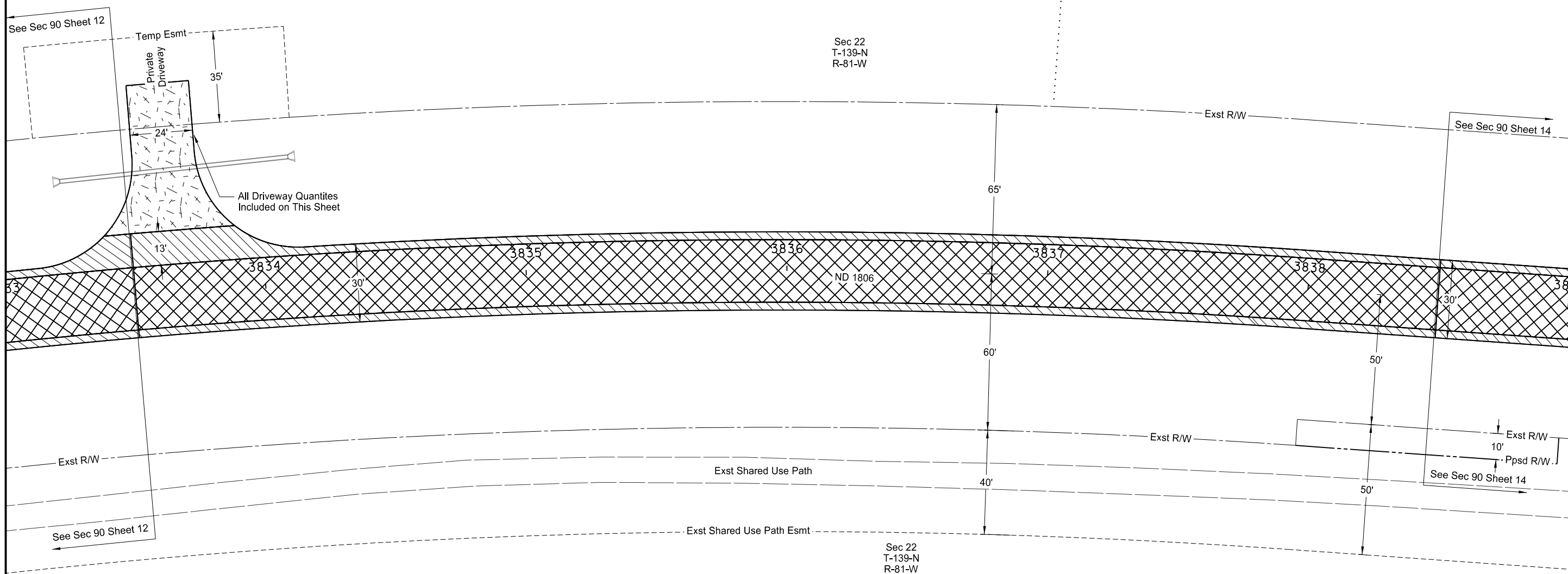
| LEGEND | |
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| | 5IN HMA FAA 45 on 12IN CL 5 on Type G |
| | 4IN HMA FAA 45 on 12IN CL 5* |
| | 4IN HMA FAA 45 on 4IN CL5 (Trail) |
| | 2.5IN HMA FAA 45 (Overlay) |
| | 4IN Sidewalk Concrete on 4IN CL 5 |
| | 8IN Driveway Concrete on 4IN CL 5 |
| | Pigmented Imprinted Concrete |
| | 8IN Non Reif Concrete Pvmt CL AE-Doweled on 8IN CL 5 on Type G |
| | Pavement Reinforcement (See Section 20 Sheet 8) |
| | Non Reif Concrete Pvmt CL AE Doweled-Colored (8IN) on 8IN CL 5 on Type G |
| | Aggregate Surface Course CL 5 |
| | Detectable Warning Panels |
| | Longitudinal Keyed Joint (See Standard Drawing D550-2) |
| | Tied Joint (See Standard Drawing D550-2) |
| | Doweled Joint (See Standard Drawing D550-3) |
| | 2" Dia Core Hole |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-------------|------------|
| 302 0120 | AGGREGATE BASE COURSE CL 5 Sta 3828+50 to Sta 3833+50 (Widening) | 402 | TON |
| 302 0320 | AGGREGATE SURFACE COURSE CL 5 Sta 3832+12 Rt (Driveway) | 53 | TON |
| 401 0050 | TACK COAT Sta 3828+50 to Sta 3833+50 (Overlay) Sta 3828+50 to Sta 3833+50 (Widening) | 107 69 | GAL GAL |
| 430 0045 | SUPERPAVE FAA 45 Sta 3828+50 to Sta 3833+50 (Overlay) Sta 3828+50 to Sta 3833+50 (Widening) | 185 112 | TON TON |
| 430 5806 | PG 58H-28 ASPHALT CEMENT Sta 3828+50 to Sta 3833+50 (Overlay) Sta 3828+50 to Sta 3833+50 (Widening) | 11.1 6.7 | TON TON |

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| LEGEND | |
|--------|--|
| | 5IN HMA FAA 45 on 12IN CL 5 on Type G |
| | 4IN HMA FAA 45 on 12IN CL 5* |
| | 4IN HMA FAA 45 on 4IN CL5 (Trail) |
| | 2.5IN HMA FAA 45 (Overlay) |
| | 4IN Sidewalk Concrete on 4IN CL 5 |
| | 8IN Driveway Concrete on 4IN CL 5 |
| | Pigmented Imprinted Concrete |
| | 8IN Non Reif Concrete Pvmt CL AE-Doweled on 8IN CL 5 on Type G |
| | Pavement Reinforcement (See Section 20 Sheet 8) |
| | Non Reif Concrete Pvmt CL AE Doweled-Colored (8IN) on 8IN CL 5 on Type G |
| | Aggregate Surface Course CL 5 |
| | Detectable Warning Panels |
| | Longitudinal Keyed Joint (See Standard Drawing D550-2) |
| | Tied Joint (See Standard Drawing D550-2) |
| | Doweled Joint (See Standard Drawing D550-3) |
| | 2" Dia Core Hole |

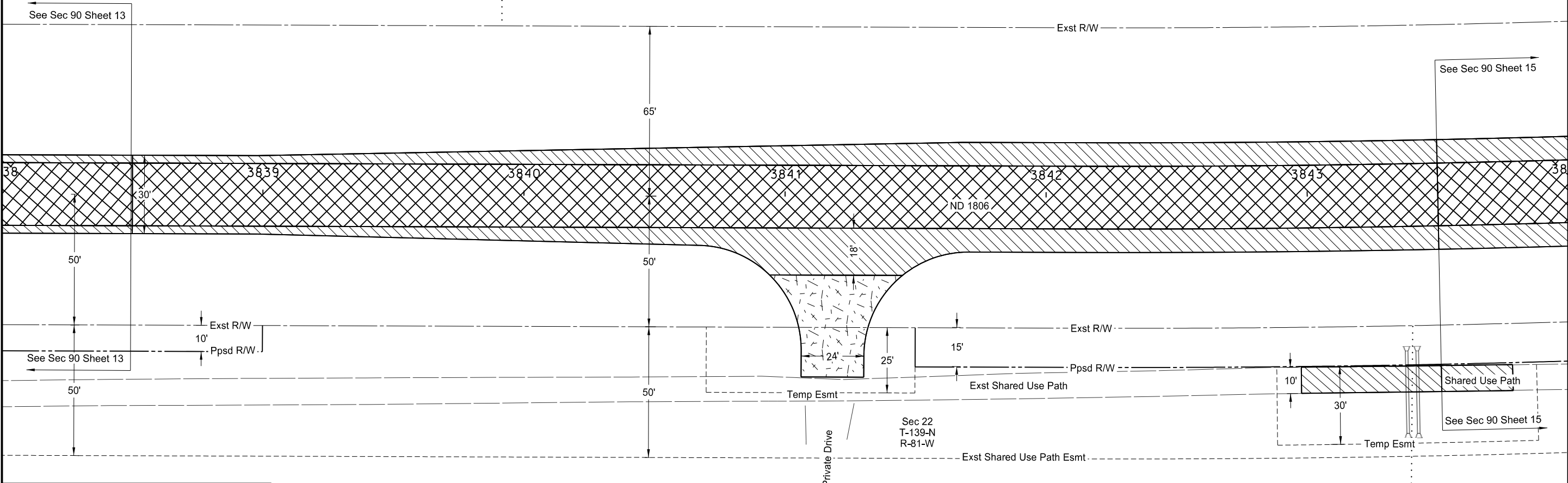
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|-----------|---|------------|------------|
| 302 0120 | AGGREGATE BASE COURSE CL 5 Sta 3833+50 to Sta 3838+50 (Widening) | 376 | TON |
| 302 0320 | AGGREGATE SURFACE COURSE CL 5 Sta. 3833+65 Lt (Driveway) | 56 | TON |
| 401 0050 | TACK COAT Sta 3833+50 to Sta 3838+50 (Overlay) Sta 3833+50 to Sta 3838+50 (Widening) | 107 62 | GAL GAL |
| 430 0045 | SUPERPAVE FAA 45 Sta 3833+50 to Sta 3838+50 (Overlay) Sta 3833+50 to Sta 3838+50 (Widening) | 185 102 | TON TON |
| 430 5806 | PG 58H-28 ASPHALT CEMENT Sta 3833+50 to Sta 3838+50 (Overlay) Sta 3833+50 to Sta 3838+50 (Widening) | 11 6 | TON TON |

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 Sta 3833+50 to 3838+50

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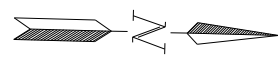
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LEGEND

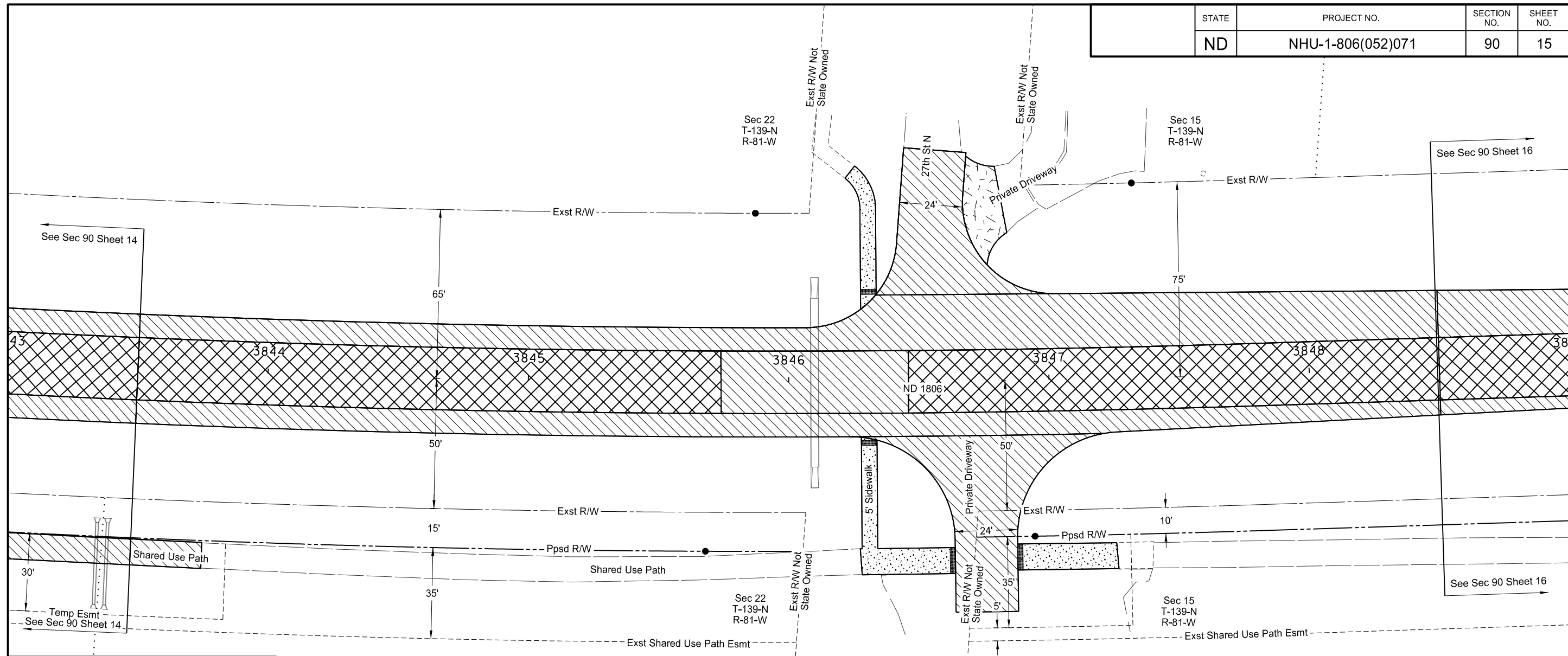
- 5IN HMA FAA 45 on 12IN CL 5 on Type G
- 4IN HMA FAA 45 on 12IN CL 5*
- 4IN HMA FAA 45 on 4IN CL5 (Trail)
- 2.5IN HMA FAA 45 (Overlay)
- 4IN Sidewalk Concrete on 4IN CL 5
- 8IN Driveway Concrete on 4IN CL 5
- Pigmented Imprinted Concrete
- 8IN Non Reif Concrete Pvmt CL
- AE-Doweled on 8IN CL 5 on Type G
- Pavement Reinforcement (See Section 20 Sheet 8)
- Non Reif Concrete Pvmt CL AE Doweled-Colored (8IN) on 8IN CL 5 on Type G
- Aggregate Surface Course CL 5
- Detectable Warning Panels
- Longitudinal Keyed Joint (See Standard Drawing D550-2)
- Tied Joint (See Standard Drawing D550-2)
- Doweled Joint (See Standard Drawing D550-3)
- 2" Dia Core Hole

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---------------------------------------|------|------|
| 302 0120 | AGGREGATE BASE COURSE CL 5 | | |
| | Sta 3838+50 to Sta 3843+50 (Widening) | 653 | TON |
| | Sta 3842+97 to Sta 3843+50, Rt (Path) | 15 | TON |
| 302 0320 | AGGREGATE SURFACE COURSE CL 5 | | |
| | Sta 3841+20 Rt (Driveway) | 41 | TON |
| 401 0050 | TACK COAT | | |
| | Sta 3838+50 to Sta 3843+50 (Overlay) | 107 | GAL |
| | Sta 3838+50 to Sta 3843+50 (Widening) | 133 | GAL |
| | Sta 3842+97 to Sta 3843+50, Rt (Path) | 5 | GAL |
| 430 0045 | SUPERPAVE FAA 45 | | |
| | Sta 3838+50 to Sta 3843+50 (Overlay) | 185 | TON |
| | Sta 3838+50 to Sta 3843+50 (Widening) | 201 | TON |
| | Sta 3842+97 to Sta 3843+50, Rt (Path) | 15 | TON |
| 430 5806 | PG 58H-28 ASPHALT CEMENT | | |
| | Sta 3838+50 to Sta 3843+50 (Overlay) | 11.1 | TON |
| | Sta 3838+50 to Sta 3843+50 (Widening) | 12.0 | TON |
| | Sta 3842+97 to Sta 3843+50, Rt (Path) | 0.9 | TON |



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ND 1806
 Paving Layouts
 ND 1806
 Sta 3838+50 to 3843+50

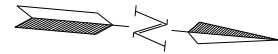


| LEGEND | |
|--------|--|
| | 5IN HMA FAA 45 on 12IN CL 5 on Type G |
| | 4IN HMA FAA 45 on 12IN CL 5* |
| | 4IN HMA FAA 45 on 4IN CL5 (Trail) |
| | 2.5IN HMA FAA 45 (Overlay) |
| | 4IN Sidewalk Concrete on 4IN CL 5 |
| | 8IN Driveway Concrete on 4IN CL 5 |
| | Pigmented Imprinted Concrete |
| | 8IN Non Reif Concrete Pvmt CL AE-Doweled on 8IN CL 5 on Type G |
| | Pavement Reinforcement (See Section 20 Sheet 8) |
| | Non Reif Concrete Pvmt CL AE Doweled-Colored (8IN) on 8IN CL 5 on Type G |
| | Aggregate Surface Course CL 5 |
| | Detectable Warning Panels |
| | Longitudinal Keyed Joint (See Standard Drawing D550-2) |
| | Tied Joint (See Standard Drawing D550-2) |
| | Doweled Joint (See Standard Drawing D550-3) |
| | 2" Dia Core Hole |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-----|------|
| 302 0120 | AGGREGATE BASE COURSE CL 5 | | |
| | Sta 3843+50 to Sta 3848+50 (Widening) | 896 | TON |
| | Sta 3845+74 to Sta 3846+46 (Full Depth) | 121 | TON |
| | Sta 3843+50 to Sta 3843+79, Rt (Path) | 7 | TON |
| | Sta 3846+55 Lt (27th St N) | 141 | TON |
| | Sta 3846+75 Rt (Driveway) | 184 | TON |
| | Sta 3843+50 to Sta 3848+50 (Sidewalk) | 31 | TON |
| 302 0320 | AGGREGATE SURFACE COURSE CL 5 | | |
| | Sta 3846+76, 68.5' Lt | 16 | TON |
| 401 0050 | TACK COAT | | |
| | Sta 3843+50 to Sta 3848+50 (Overlay) | 91 | GAL |
| | Sta 3843+50 to Sta 3848+50 (Widening) | 201 | GAL |
| | Sta 3845+74 to Sta 3846+46 (Full Depth) | 31 | GAL |
| | Sta 3843+50 to Sta 3843+79, Rt (Path) | 2 | GAL |
| | Sta 3846+55 Lt (27th St N) | 30 | GAL |
| | Sta 3846+75 Rt (Driveway) | 41 | GAL |
| 430 0045 | SUPERPAVE FAA 45 | | |
| | Sta 3843+50 to Sta 3848+50 (Overlay) | 159 | TON |
| | Sta 3843+50 to Sta 3848+50 (Widening) | 292 | TON |
| | Sta 3845+74 to Sta 3846+46 (Full Depth) | 43 | TON |
| | Sta 3843+50 to Sta 3843+79, Rt (Path) | 8 | TON |
| | Sta 3846+55 Lt (27th St N) | 45 | TON |
| | Sta 3846+75 Rt (Driveway) | 59 | TON |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|------|------|
| 430 5806 | PG 58H-28 ASPHALT CEMENT | | |
| | Sta 3843+50 to Sta 3848+50 (Overlay) | 9.5 | TON |
| | Sta 3843+50 to Sta 3848+50 (Widening) | 17.5 | TON |
| | Sta 3845+74 to Sta 3846+46 (Full Depth) | 2.6 | TON |
| | Sta 3843+50 to Sta 3843+79, Rt (Path) | 0.5 | TON |
| | Sta 3846+55 Lt (27th St N) | 2.7 | TON |
| | Sta 3846+75 Rt (Driveway) | 3.6 | TON |
| 750 0115 | SIDEWALK CONCRETE 4IN | | |
| | Sta 3843+50 to Sta 3848+50 | 146 | SY |
| 750 2115 | DETECTABLE WARNING PANELS | | |
| | Sta 3846+31 35' Lt | 12 | SF |
| | Sta 3846+31 23' Rt | 12 | SF |
| | Sta 3846+62 68' Lt | 20 | SF |
| | Sta 3846+88 68' Rt | 20 | SF |

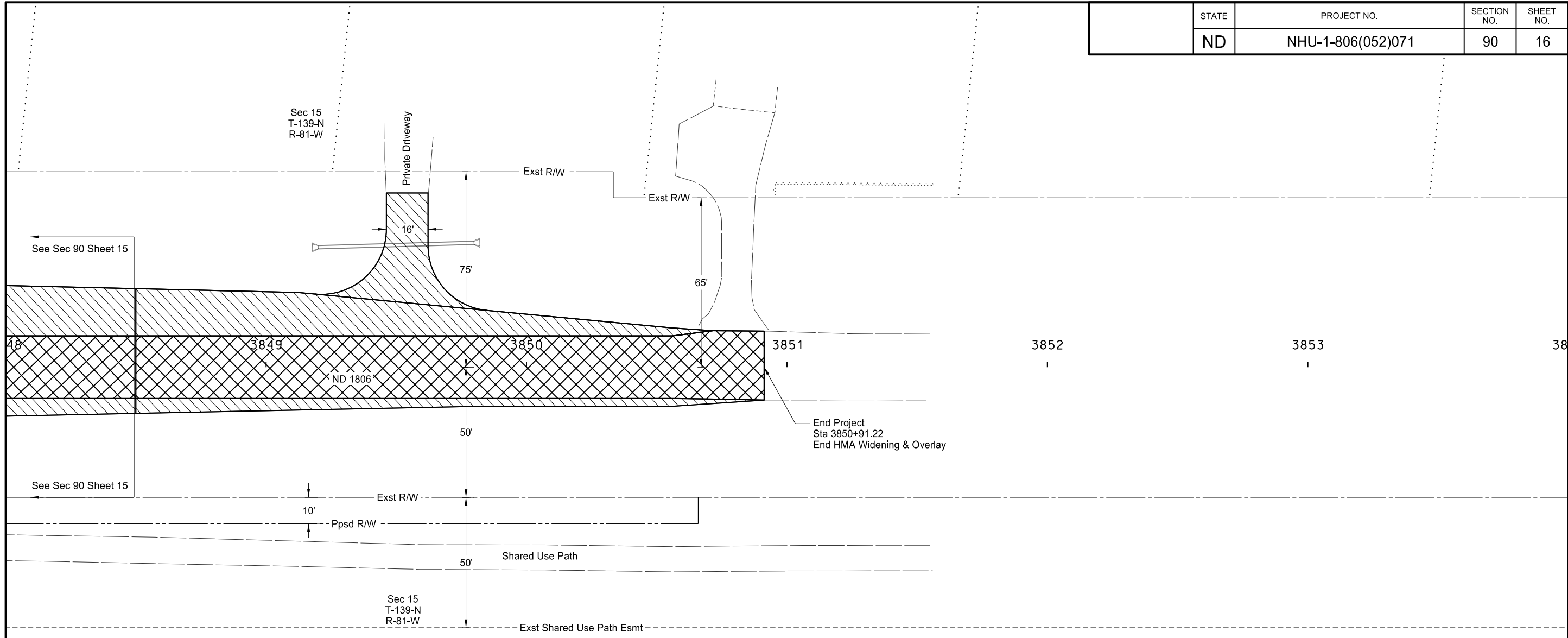
Note:
Full depth replacement from Sta 3845+74 to 3846+46 for the replacement of a 36" culvert @ Sta 3846+10. See NDDOT Standard Drawing D714-26 for installation details.



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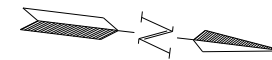
ND 1806
Paving Layouts
ND 1806
Sta 3843+50 to 3848+50

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|-------|-------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | NHU-1-806(052)071 | 90 | 16 |



| LEGEND | |
|--------|--|
| | 5IN HMA FAA 45 on 12IN CL 5 on Type G |
| | 4IN HMA FAA 45 on 12IN CL 5* |
| | 4IN HMA FAA 45 on 4IN CL5 (Trail) |
| | 2.5IN HMA FAA 45 (Overlay) |
| | 4IN Sidewalk Concrete on 4IN CL 5 |
| | 8IN Driveway Concrete on 4IN CL 5 |
| | Pigmented Imprinted Concrete |
| | 8IN Non Reif Concrete Pvmt CL AE-Doweled on 8IN CL 5 on Type G |
| | Pavement Reinforcement (See Section 20 Sheet 8) |
| | Non Reif Concrete Pvmt CL AE Doweled-Colored (8IN) on 8IN CL 5 on Type G |
| | Aggregate Surface Course CL 5 |
| | Detectable Warning Panels |
| | Longitudinal Keyed Joint (See Standard Drawing D550-2) |
| | Tied Joint (See Standard Drawing D550-2) |
| | Doweled Joint (See Standard Drawing D550-3) |
| | 2" Dia Core Hole |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|--|-----|------|
| 302 0120 | AGGREGATE BASE COURSE CL 5 | | |
| | Sta 3848+50 to Sta 3850+91.22 (Widening) | 293 | TON |
| | Sta 3849+55 Lt (Driveway) | 82 | TON |
| 401 0050 | TACK COAT | | |
| | Sta 3848+50 to Sta 3850+91.22 (Overlay) | 52 | GAL |
| | Sta 3848+50 to Sta 3850+91.22 (Widening) | 60 | GAL |
| | Sta 3849+55 Lt (Driveway) | 17 | GAL |
| 430 0045 | SUPERPAVE FAA 45 | | |
| | Sta 3848+50 to Sta 3850+91.22 (Overlay) | 90 | TON |
| | Sta 3848+50 to Sta 3850+91.22 (Widening) | 90 | TON |
| | Sta 3849+55 Lt (Driveway) | 25 | TON |
| 430 5806 | PG 58H-28 ASPHALT CEMENT | | |
| | Sta 3848+50 to Sta 3850+91.22 (Overlay) | 5.4 | TON |
| | Sta 3848+50 to Sta 3850+91.22 (Widening) | 5.4 | TON |
| | Sta 3849+55 Lt (Driveway) | 1.5 | TON |

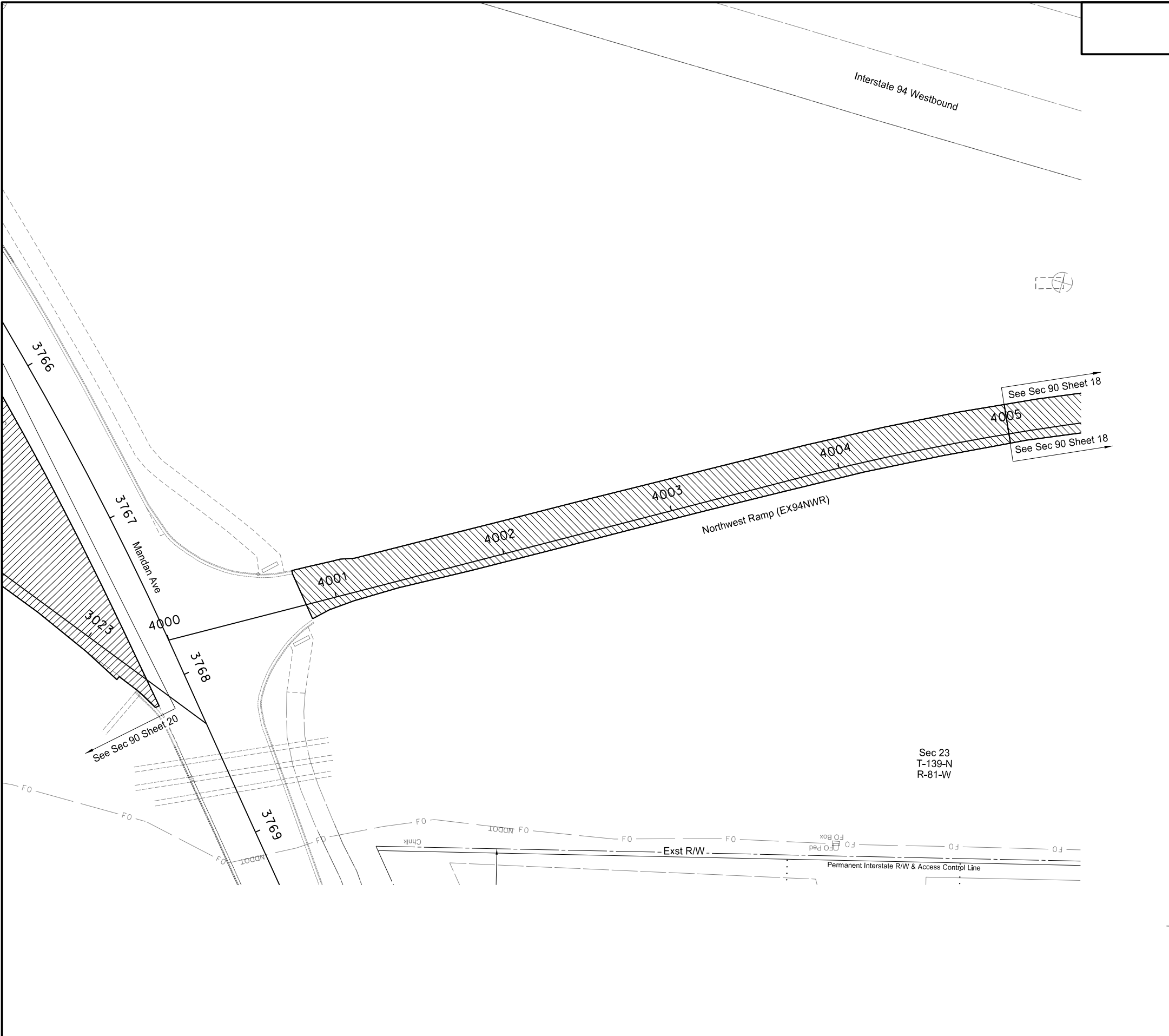


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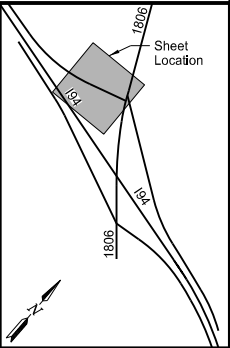
ND 1806
 Paving Layouts
 ND 1806
 Sta 3843+50 to 3850+91.22

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|-------|------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | IM-1-094(200)153 | 90 | 17 |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|--|-----|------|
| 401 0050 | TACK COAT Sta 4000+82 to Sta 4005+00 (Overlay) | 87 | GAL |
| 430 0045 | SUPERPAVE FAA 45 Sta 4000+82 to Sta 4005+00 (Overlay) | 121 | TON |
| 430 5806 | PG 58H-28 ASPHALT CEMENT Sta 4000+82 to Sta 4005+00 (Overlay) | 7.3 | TON |



| LEGEND | |
|--------|--------------------------|
| | 2IN HMA FAA 45 (Overlay) |

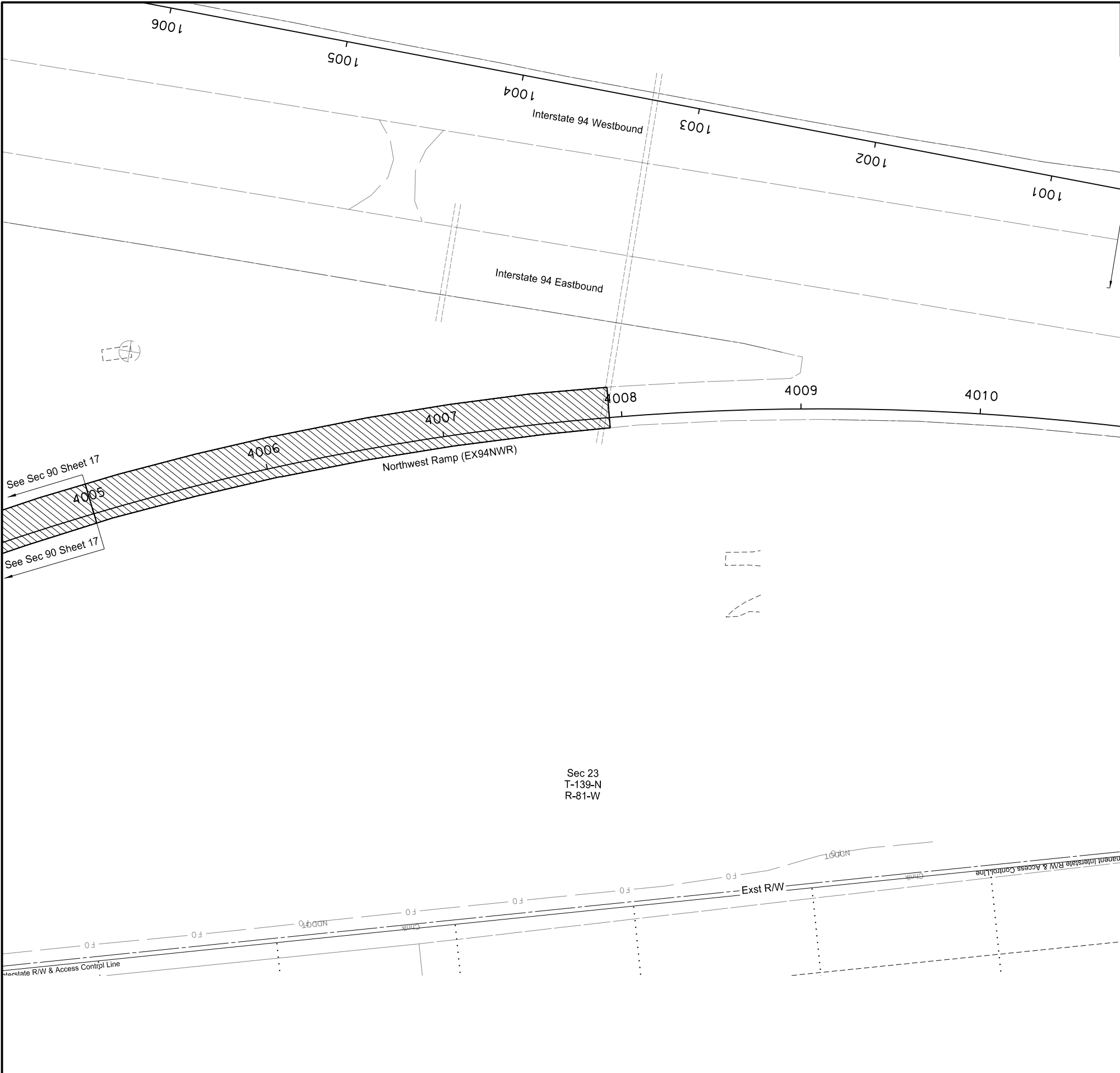


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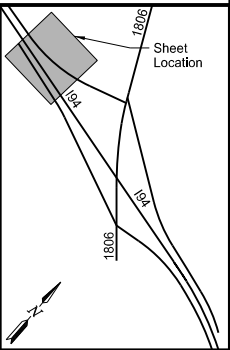
ND 1806 Interchange
Paving Layouts
Northwest Ramp
Sta 4000+00 to 4005+00 (EX94NWR)

| | | | |
|-------|------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | IM-1-094(200)153 | 90 | 18 |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|--|-----|------|
| 401 0050 | TACK COAT Sta 4005+00 to Sta 4007+93 (Overlay) | 60 | GAL |
| 430 0045 | SUPERPAVE FAA 45 Sta 4005+00 to Sta 4007+93 (Overlay) | 84 | TON |
| 430 5806 | PG 58H-28 ASPHALT CEMENT Sta 4005+00 to Sta 4007+93 (Overlay) | 5.0 | TON |



| LEGEND | |
|--------|--------------------------|
| | 2IN HMA FAA 45 (Overlay) |



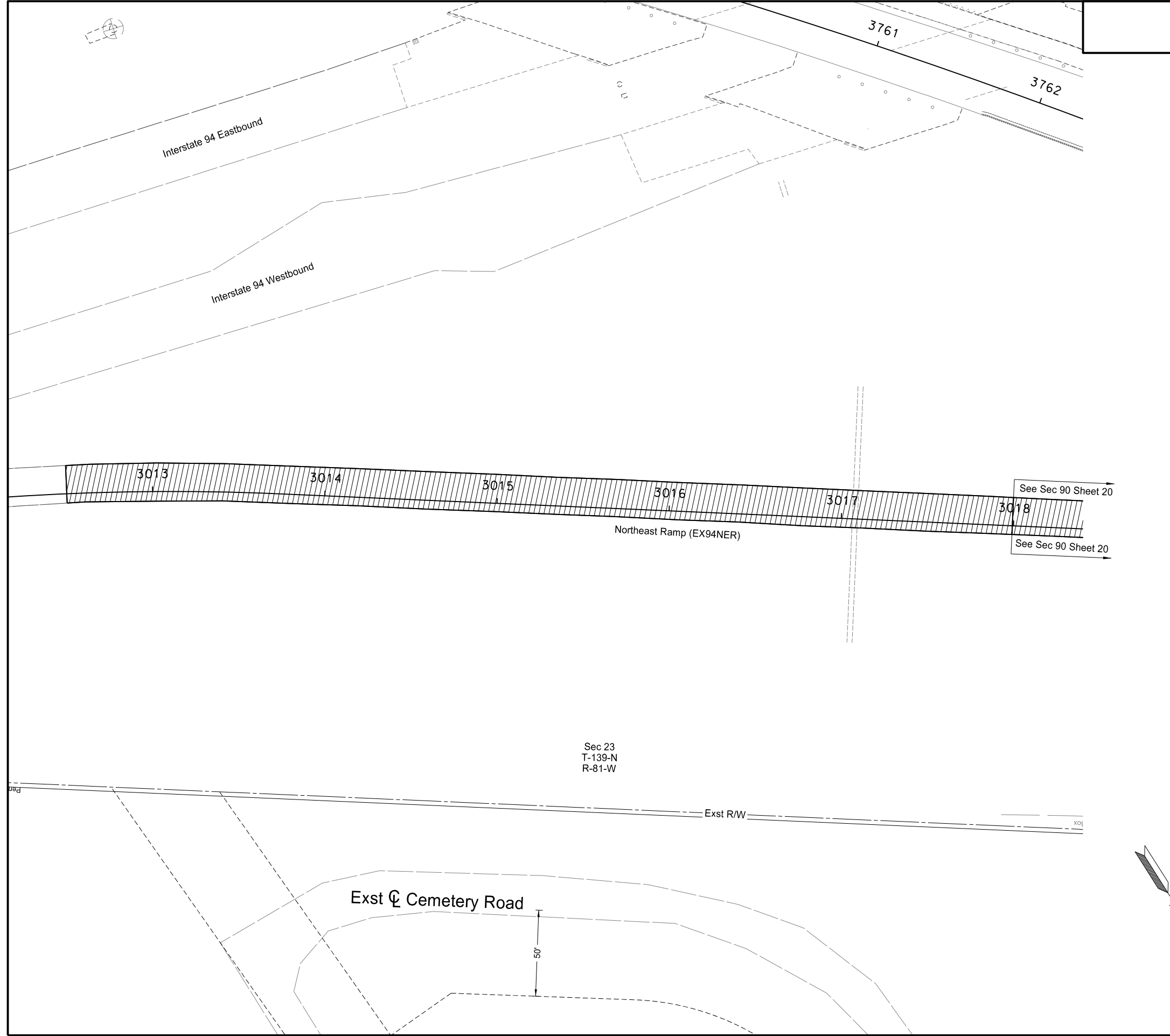
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ND 1806 Interchange
 Paving Layouts
 Northwest Ramp
 Sta 4005+00 to 4007+93 (EX94NWR)



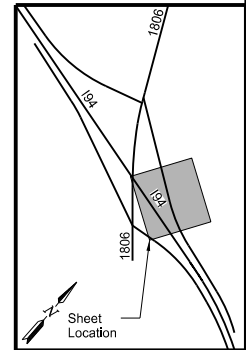
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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | IM-1-094(200)153 | 90 | 19 |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|--|-----|------|
| 401 0050 | TACK COAT Sta 3012+50 to Sta 3018+00 (Overlay) | 106 | GAL |
| 430 0045 | SUPERPAVE FAA 45 Sta 3012+50 to Sta 3018+00 (Overlay) | 147 | TON |
| 430 5806 | PG 58H-28 ASPHALT CEMENT Sta 3012+50 to Sta 3018+00 (Overlay) | 8.8 | TON |



See Sec 90 Sheet 20
See Sec 90 Sheet 20

| LEGEND | |
|--------|--------------------------|
| | 2IN HMA FAA 45 (Overlay) |

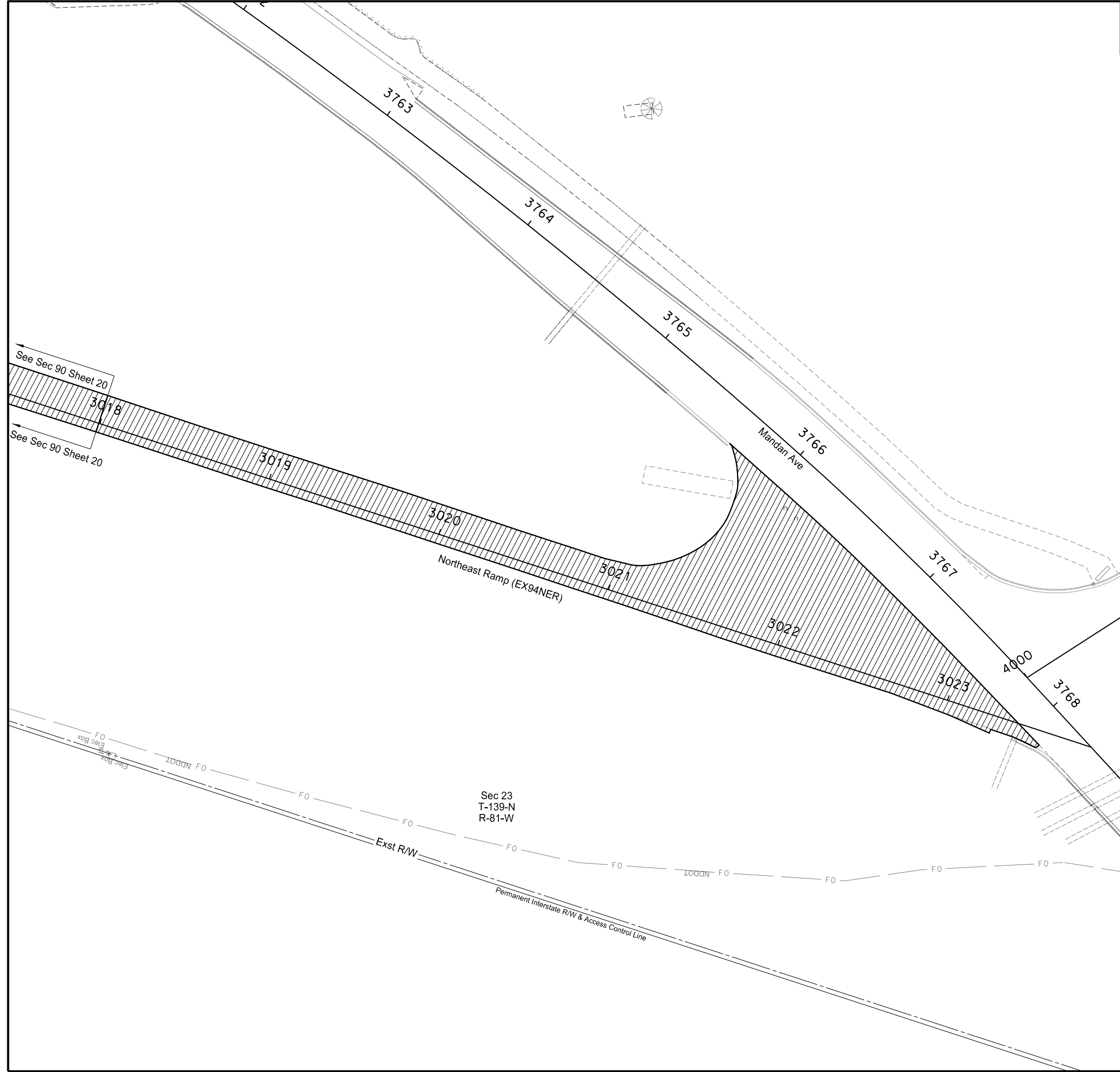


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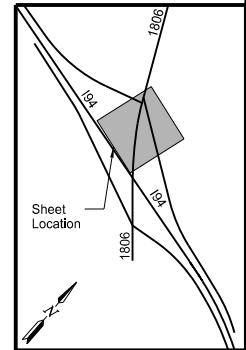
ND 1806 Interchange
 Paving Layouts
 Northeast Ramp
 Sta 3012+50 to 3018+00 (EX94NER)

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|-------|------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | IM-1-094(200)153 | 90 | 20 |

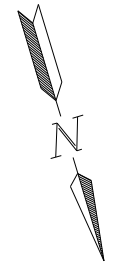
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|-----------|--|------|------|
| 401 0050 | TACK COAT Sta 3018+00 to Sta 3023+42 (Overlay) | 168 | GAL |
| 430 0045 | SUPERPAVE FAA 45 Sta 3018+00 to Sta 3023+42 (Overlay) | 233 | TON |
| 430 5806 | PG 58H-28 ASPHALT CEMENT Sta 3018+00 to Sta 3023+42 (Overlay) | 14.0 | TON |



| LEGEND | |
|--------|--------------------------|
| | 2IN HMA FAA 45 (Overlay) |

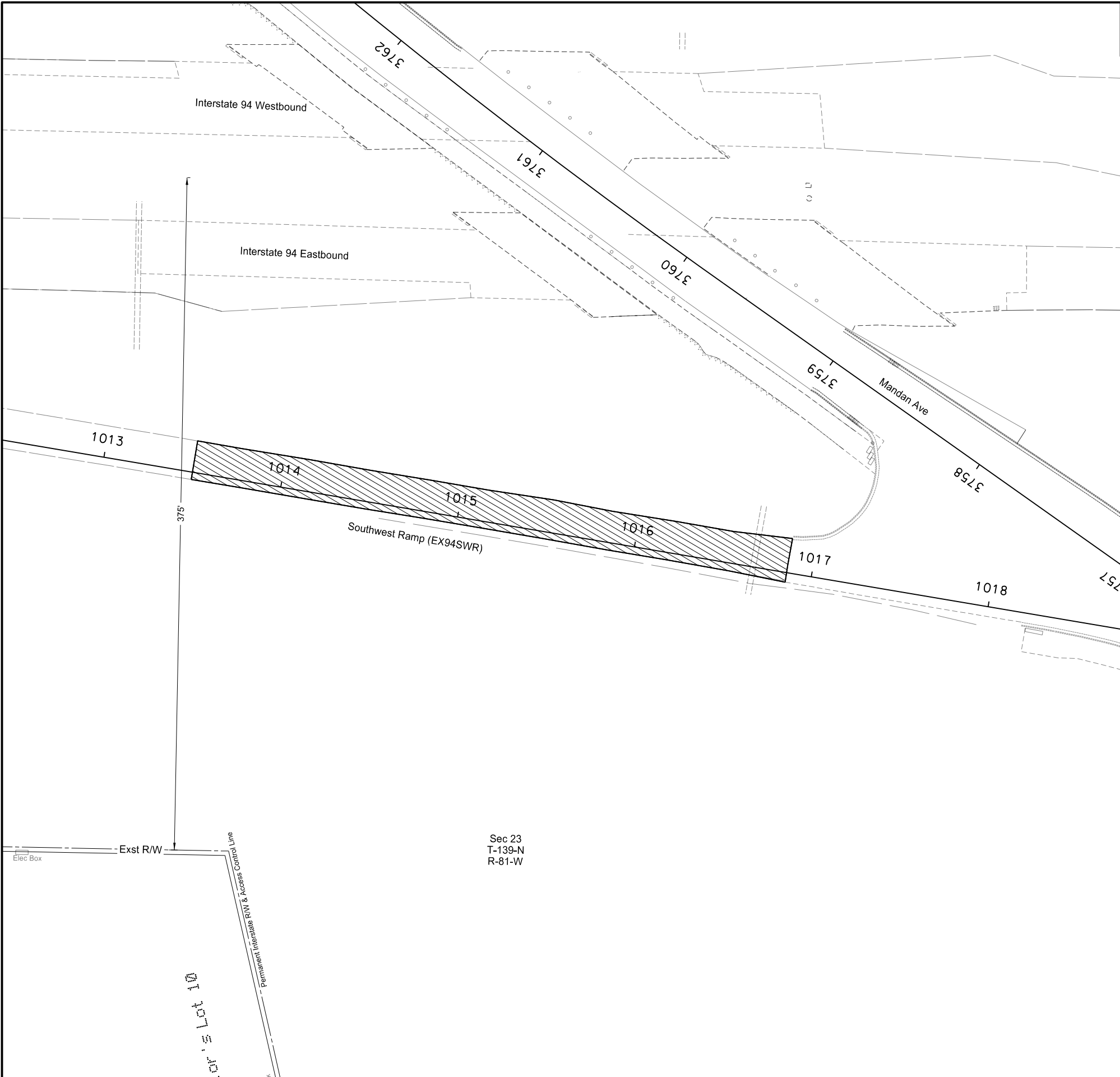


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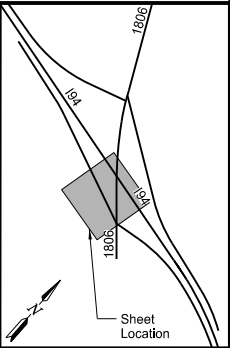
ND 1806 Interchange
 Paving Layouts
 Northeast Ramp
 Sta 3018+00 to 3023+85 (EX94NER)

| | | | |
|-------|------------------|-------------|-----------|
| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
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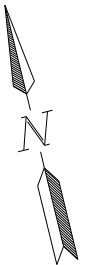


| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|---|-----|------|
| 302 0120 | AGGREGATE BASE COURSE CL 5 Sta 3823+50 to Sta 3828+50 (Widening) | 730 | TON |
| 401 0050 | TACK COAT Sta 1014+00 to Sta 1019+00 (Overlay) | 66 | GAL |
| 430 0045 | SUPERPAVE FAA 45 Sta 1014+00 to Sta 1019+00 (Overlay) | 108 | TON |
| 430 5806 | PG 58H-28 ASPHALT CEMENT Sta 1014+00 to Sta 1019+00 (Overlay) | 6.5 | TON |

| LEGEND | |
|--------|--------------------------------|
| | 5IN HMA FAA 45 on 15IN CL 5 |



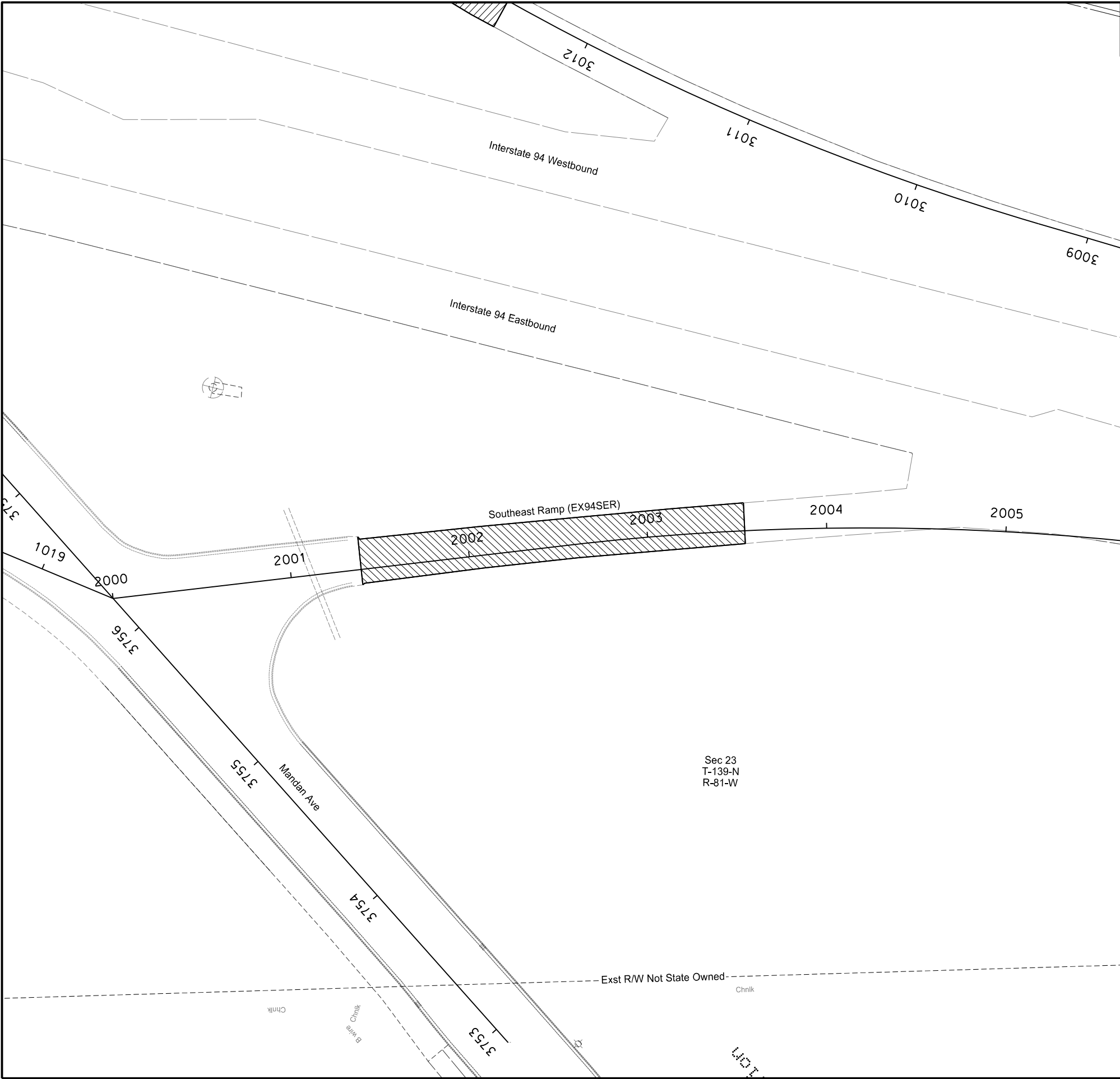
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ND 1806 Interchange
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 Southwest Ramp
 Sta 1013+00 to 1018+00 (EX94SWR)

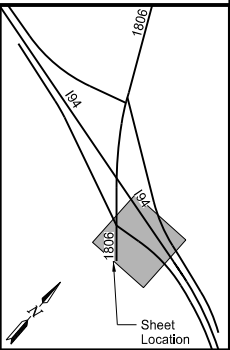
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| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
| ND | IM-1-094(200)153 | 90 | 22 |

| SPEC CODE | BID ITEM | QTY | UNIT |
|-----------|--|-----|------|
| 401 0050 | TACK COAT Sta 2001+39 to Sta 2003+54 (Overlay) | 44 | GAL |
| 430 0045 | SUPERPAVE FAA 45 Sta 2001+39 to Sta 2003+54 (Overlay) | 63 | TON |
| 430 5806 | PG 58H-28 ASPHALT CEMENT Sta 2001+39 to Sta 2003+54 (Overlay) | 3.8 | TON |

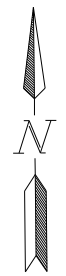


Sec 23
T-139-N
R-81-W

| LEGEND | |
|--------|--------------------------|
| | 2IN HMA FAA 45 (Overlay) |



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ND 1806 Interchange
 Paving Layouts
 Southeast Ramp
 Sta 2000+00 to 2005+00 (EX94SER)