

---

## ORINATION FORM

---

### Proposed Revisions to a Standard Plans Index

(Please provide all information — Incomplete forms will be returned)

**Contact Information:**

Date: August 1, 2023

Originator: Joshua Turley

Phone: (850) 414-4475

Email: [joshua.turley@dot.state.fl.us](mailto:joshua.turley@dot.state.fl.us)

**Standard Plans:**

Index Number: 521-513

Sheet Number (s): 2 of 2

Index Title: CONCRETE BARRIER/NOISE WALL  
T-SHAPED SPREAD FOOTING

**Summary of the changes:**

Sheet 2: Corrected reinforcing steel estimated quantities.

**Commentary / Background:**

The estimate for reinforcing steel was slightly off for the CIP version. We updated the estimate.

**Other Affected Offices / Documents: (Provide name of person contacted)**

- | Yes                                 | No                                  |                                   |
|-------------------------------------|-------------------------------------|-----------------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Other Standard Plans –            |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | FDOT Design Manual –              |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Basis of Estimates Manual –       |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Standard Specifications – 521-723 |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Approved Product List –           |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Construction –                    |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Maintenance –                     |

**Origination Package Includes:** (Submit package to Rick Jenkins)

- | Yes                                 | N/A                                 |   |
|-------------------------------------|-------------------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Redline Mark-ups                                    |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Revised or Proposed Standard Plan Instruction (SPI) |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Other Support Documents                             |

**Implementation:**

- |                                     |                                  |
|-------------------------------------|----------------------------------|
| <input type="checkbox"/>            | Design Bulletin (Interim)        |
| <input type="checkbox"/>            | DCE Memo                         |
| <input type="checkbox"/>            | Program Mgmt. Bulletin           |
| <input checked="" type="checkbox"/> | FY-Standard Plans (Next Release) |

---

Contact the Roadway Design Office for assistance in completing this form

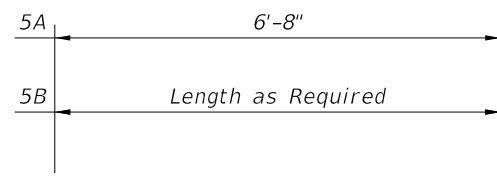
---

Email to: Rick Jenkins [rick.jenkins@dot.state.fl.us](mailto:rick.jenkins@dot.state.fl.us) and Darren Martin [darren.martin@dot.state.fl.us](mailto:darren.martin@dot.state.fl.us)

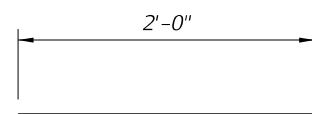
**REINFORCING STEEL BENDING DIAGRAMS**

**BILL OF REINFORCING STEEL**

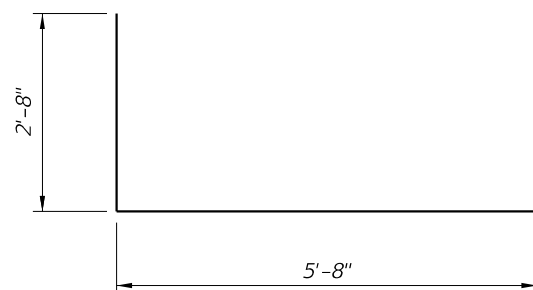
| MARK  | SIZE            | LENGTH   |
|-------|-----------------|----------|
| A     | 5               | 6'-8"    |
| B     | 5               | AS REQD. |
| U     | 5               | 11'-0"   |
| DOWEL | 1" Ø Smooth Bar | 2'-0"    |



**BARS 5A & 5B**



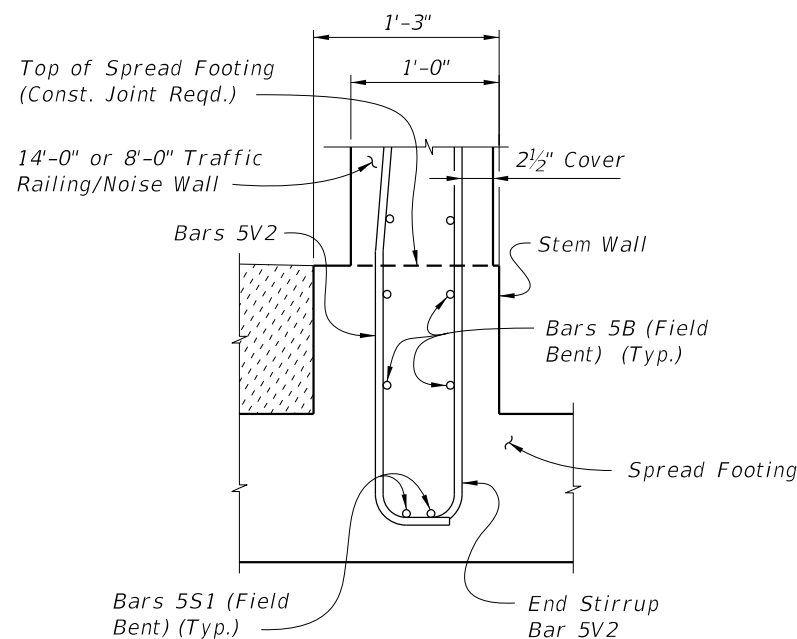
**1" Ø DOWEL**



**BAR 5U**

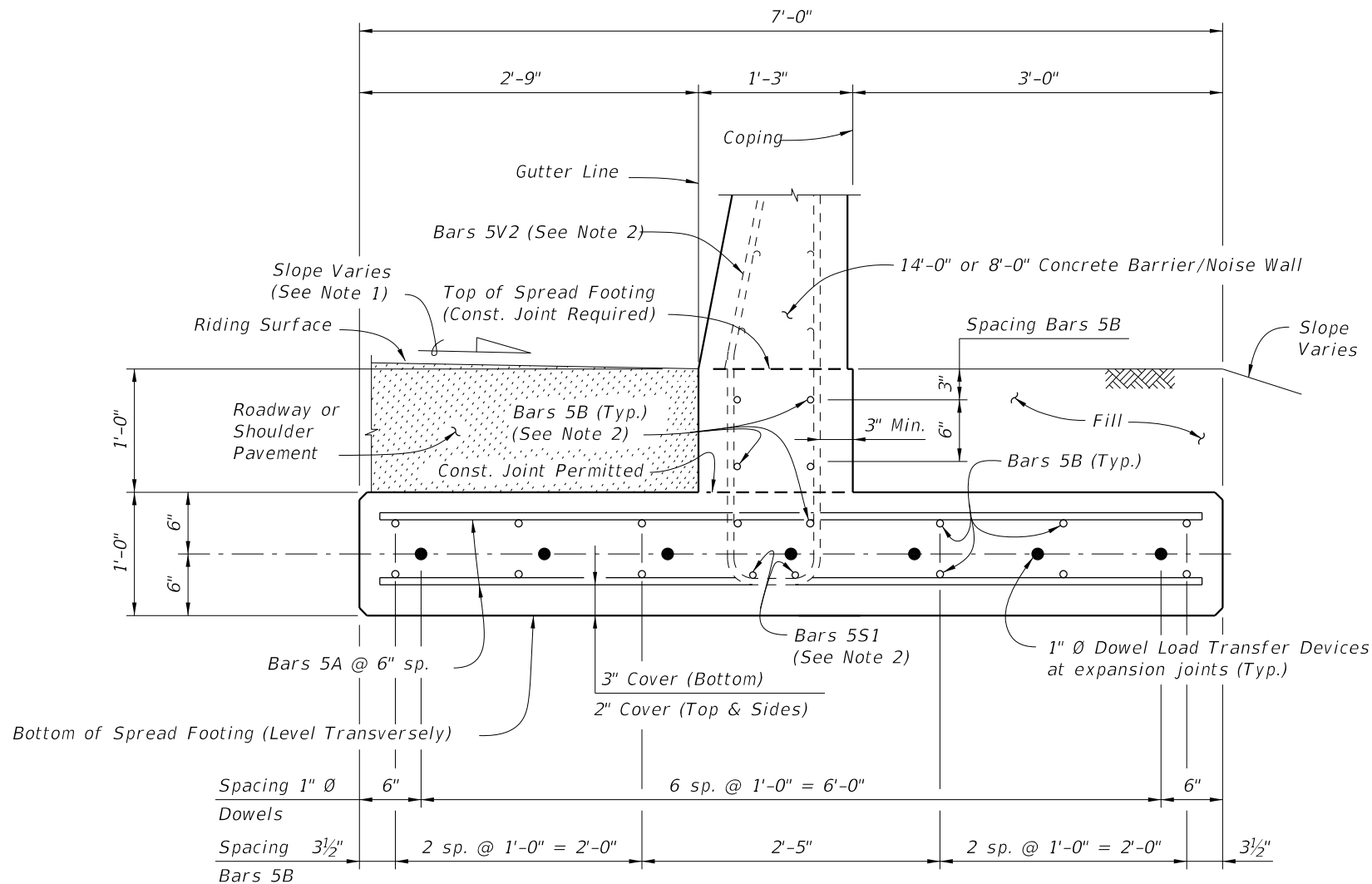
**REINFORCING STEEL NOTES:**

1. All bar dimensions in the bending diagrams are out to out.
2. All reinforcing steel at the open joints will have a 2" minimum cover.
3. Lap splices for Bars 5B will be a minimum of 2'-2".
4. The Contractor may use Welded Wire Reinforcement (WWR) when approved by the Engineer. WWR must consist of Deformed wire meeting the requirements of Specification Section 931.



**PARTIAL END VIEW OF RAILING END TRANSITION FOR GUARDRAIL ATTACHMENT (Showing Bars 5V2, and Bars 5B inside of Stirrup Bars 5V2)**

NOTE: See Index 521-510, Detail "A" for details.



**SECTION B-B  
TYPICAL SECTION THRU SPREAD FOOTING  
(Bars 5R and 5S1 in Concrete Barrier/Noise Wall not shown for clarity)**

**NOTES:**

1. Match Cross Slope of Travel Lane or Shoulder.
2. See Sheet 1, Notes 8 & 9.

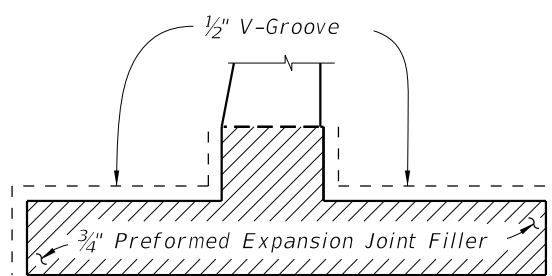
**CHANGED TO: 47.36**

**ESTIMATED T-SHAPED SPREAD FOOTING QUANTITIES**

| ITEM                                | UNIT  | QUANTITY         |
|-------------------------------------|-------|------------------|
| Concrete (Footing)                  | CY/FT | 0.312            |
| Reinforcing Steel (Typical)         | LB/FT | <del>25.90</del> |
| Additional Reinf. @ Expansion Joint | LB    | 37.38            |

Note: The reinforcing steel quantity includes the difference between Index 521-510 or 521-511 and Bars 5V shown. Bars 5S1 are included in Index 521-510 or 521-511 quantities.

CROSS REFERENCE:  
For location of Section B-B, see Sheet 1.



**DETAIL "A"**

(Showing Locations of 1/2" V-Grooves and 3/4" Preformed Expansion Joint Filler)

10/6/2022 2:10:33 PM

| LAST REVISION       | DESCRIPTION:        |
|---------------------|---------------------|
| <del>11/01/17</del> | <del>11/01/17</del> |
| 11/01/23            |                     |



**FY 2023-24  
STANDARD PLANS**

**CONCRETE BARRIER/NOISE WALL  
T-SHAPED SPREAD FOOTING**

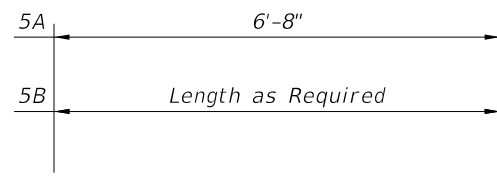
INDEX  
**521-513**

SHEET  
**2 of 2**

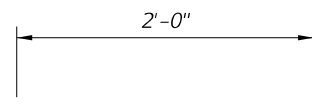
REINFORCING STEEL BENDING DIAGRAMS

BILL OF REINFORCING STEEL

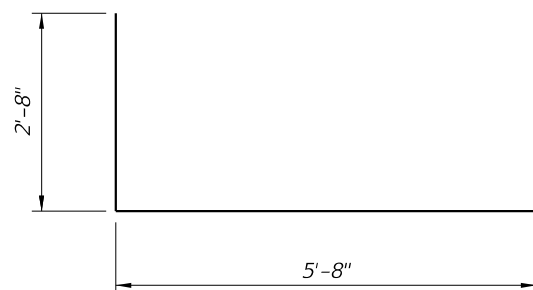
| MARK  | SIZE            | LENGTH   |
|-------|-----------------|----------|
| A     | 5               | 6'-8"    |
| B     | 5               | AS REQD. |
| U     | 5               | 11'-0"   |
| DOWEL | 1" Ø Smooth Bar | 2'-0"    |



BARS 5A & 5B



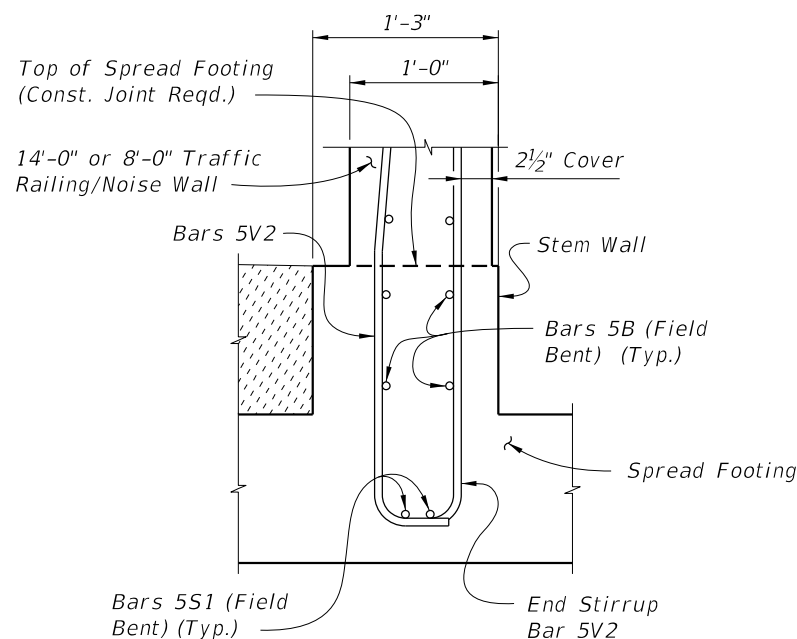
1" Ø DOWEL



BAR 5U

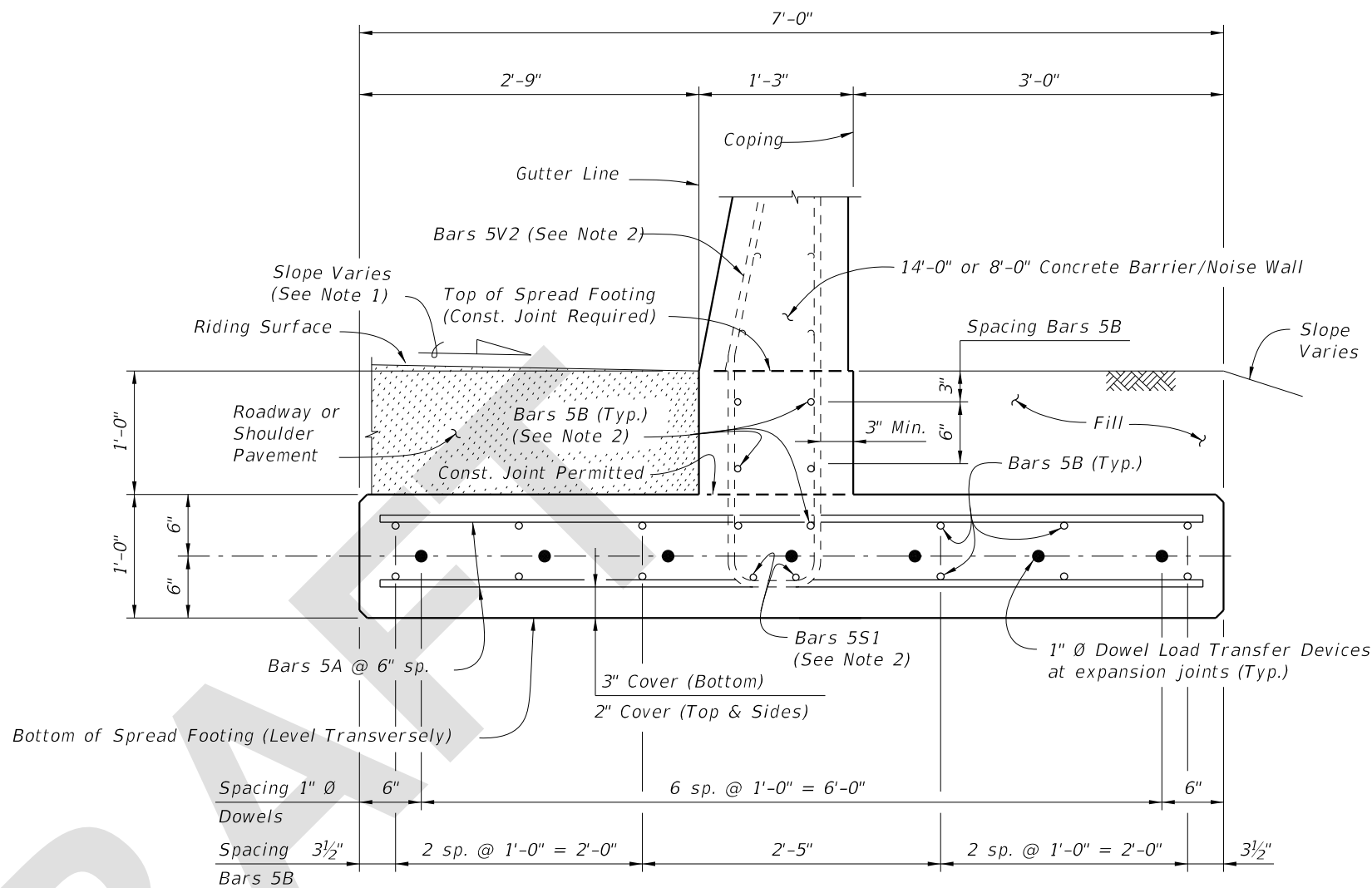
REINFORCING STEEL NOTES:

- All bar dimensions in the bending diagrams are out to out.
- All reinforcing steel at the open joints will have a 2" minimum cover.
- Lap splices for Bars 5B will be a minimum of 2'-2".
- The Contractor may use Welded Wire Reinforcement (WWR) when approved by the Engineer. WWR must consist of Deformed wire meeting the requirements of Specification Section 931.



PARTIAL END VIEW OF RAILING END TRANSITION FOR GUARDRAIL ATTACHMENT (Showing Bars 5V2, and Bars 5B inside of Stirrup Bars 5V2)

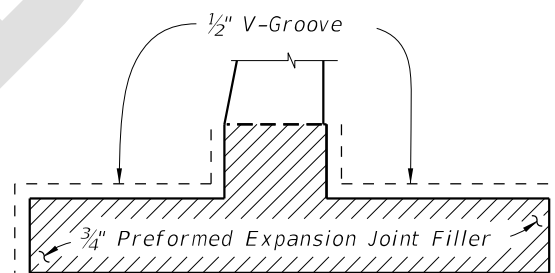
NOTE: See Index 521-510, Detail "A" for details.



SECTION B-B  
TYPICAL SECTION THRU SPREAD FOOTING  
(Bars 5R and 5S1 in Concrete Barrier/Noise Wall not shown for clarity)

NOTES:

- Match Cross Slope of Travel Lane or Shoulder.
- See Sheet 1, Notes 8 & 9.



DETAIL "A"

(Showing Locations of 1/2" V-Grooves and 3/4" Preformed Expansion Joint Filler)

ESTIMATED T-SHAPED SPREAD FOOTING QUANTITIES

| ITEM                                | UNIT  | QUANTITY |
|-------------------------------------|-------|----------|
| Concrete (Footing)                  | CY/FT | 0.312    |
| Reinforcing Steel (Typical)         | LB/FT | 47.36    |
| Additional Reinf. @ Expansion Joint | LB    | 37.38    |

Note: The reinforcing steel quantity includes the difference between Index 521-510 or 521-511 and Bars 5V shown. Bars 5S1 are included in Index 521-510 or 521-511 quantities.

CROSS REFERENCE:  
For location of Section B-B, see Sheet 1.

8/11/2023 1:09:32 PM

LAST REVISION  
11/01/23

REVISION DESCRIPTION:



FY 2024-25  
STANDARD PLANS

CONCRETE BARRIER/NOISE WALL  
T-SHAPED SPREAD FOOTING

INDEX  
521-513

SHEET  
2 of 2