Nothing Compares
NORTH CAROLINA

Mobile Data Entry for RFID

RFID MRR

NCDOT Materials and Tests Unit

HiCAMS - [train]

File Edit Functions Inquiries References Admin Tools Window Help

Training Environment

Review Precast Concrete (Report ID: 62233)

Report Name: Precast Concrete **Report ID:** 62233 **Report Status:** Authorized

General | Results | **Alt IDs** | Report | History

Alternate IDs for Material:

Concrete, Precast, Barrier, Single Face- Each

Alternate Type	Alternate ID	Status	Quantity	Available
Piece	1C012700000000000027779	In Use	1.000	.000
Piece	1C012700000000000028209	In Use	1.000	.000
Piece	1C012700000000000027960	In Use	1.000	.000
Piece	1C012700000000000028055	In Use	1.000	.000
Piece	1C012700000000000028140	In Use	1.000	.000
Piece	1C012700000000000027943	In Use	1.000	.000
Piece	1C012700000000000027886	In Use	1.000	.000
Piece	1C012700000000000027840	In Use	1.000	.000
Piece	1C012700000000000028509	In Use	1.000	.000
Piece	1C012700000000000027948	In Use	1.000	.000
Piece	1C012700000000000027898	In Use	1.000	.000
1 of 11 Items			11.000	0.000

Define Range

Count: 2

Create Range

Clear Range

Show Summary

Ready

Ask me anything

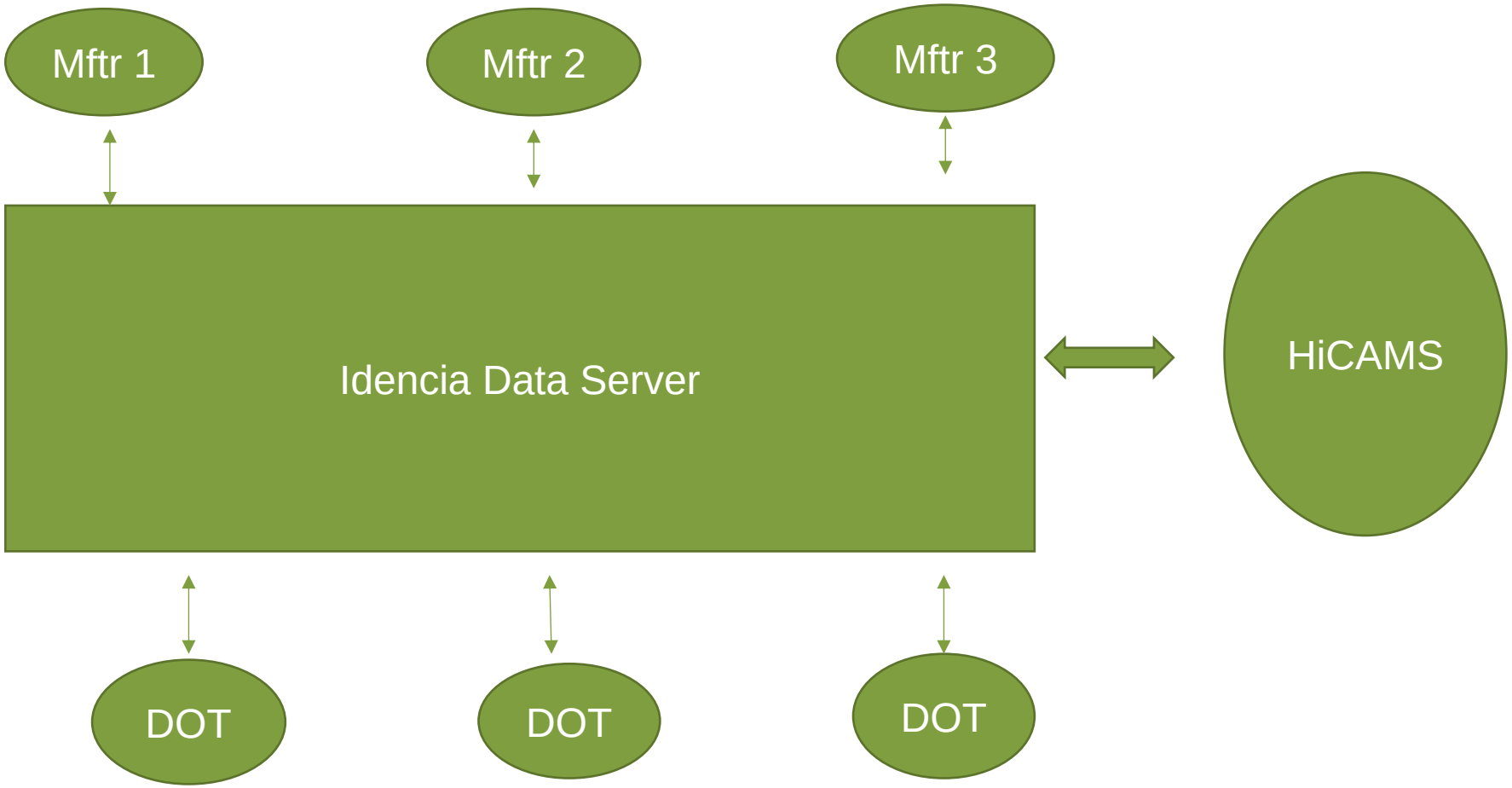
7:53 PM 12/10/2015

WELCOME

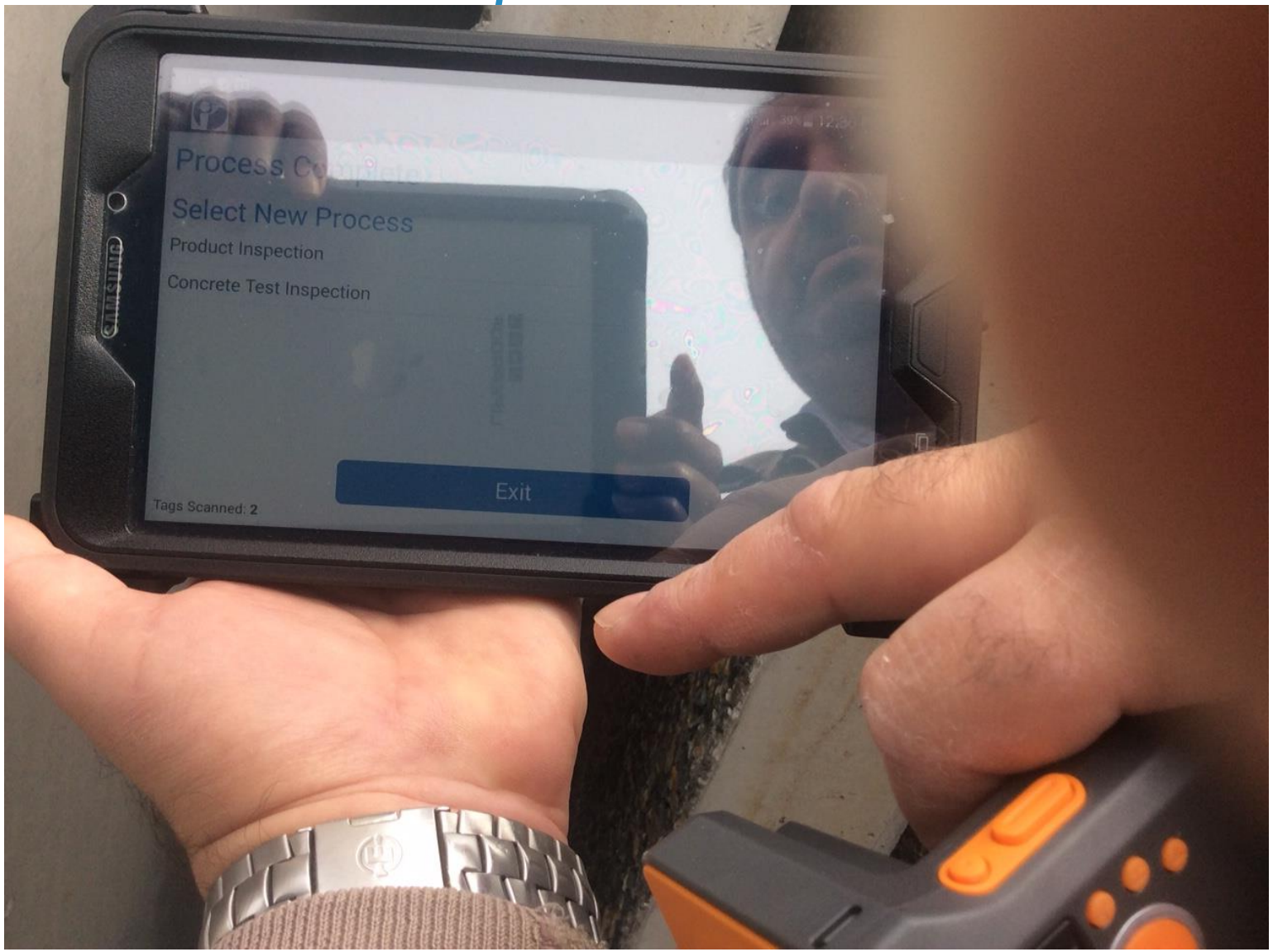
Introduction

- The final link in the RFID program is the receiving of the project onto the project site.
- The producer has entered the quality control and initial production information into the RFID, mostly through the Idencia program.
- Idencia is the conduit through which date is transmitted from the producer, and transmitted to HiCAMS.
- The NCDOT, through the Materials and Tests technicians, inspect the product pieces to ensure quality control. Materials and Tests also utilizes the Idencia software to transmit test results to HiCAMS.
- HiCAMS uses the information transmitted from Idencia to create the Field Inspection Report (FIR). Information transmitted is a combination of the producer's initial QC process, and the M&T technicians QA inspection.
- The project inspector receives the product based on the RFID. If the RFID is in the HiCAMS, the producer's info and the M&T technicians info has been confirmed and meets specification.
- The product is then accepted on the project.

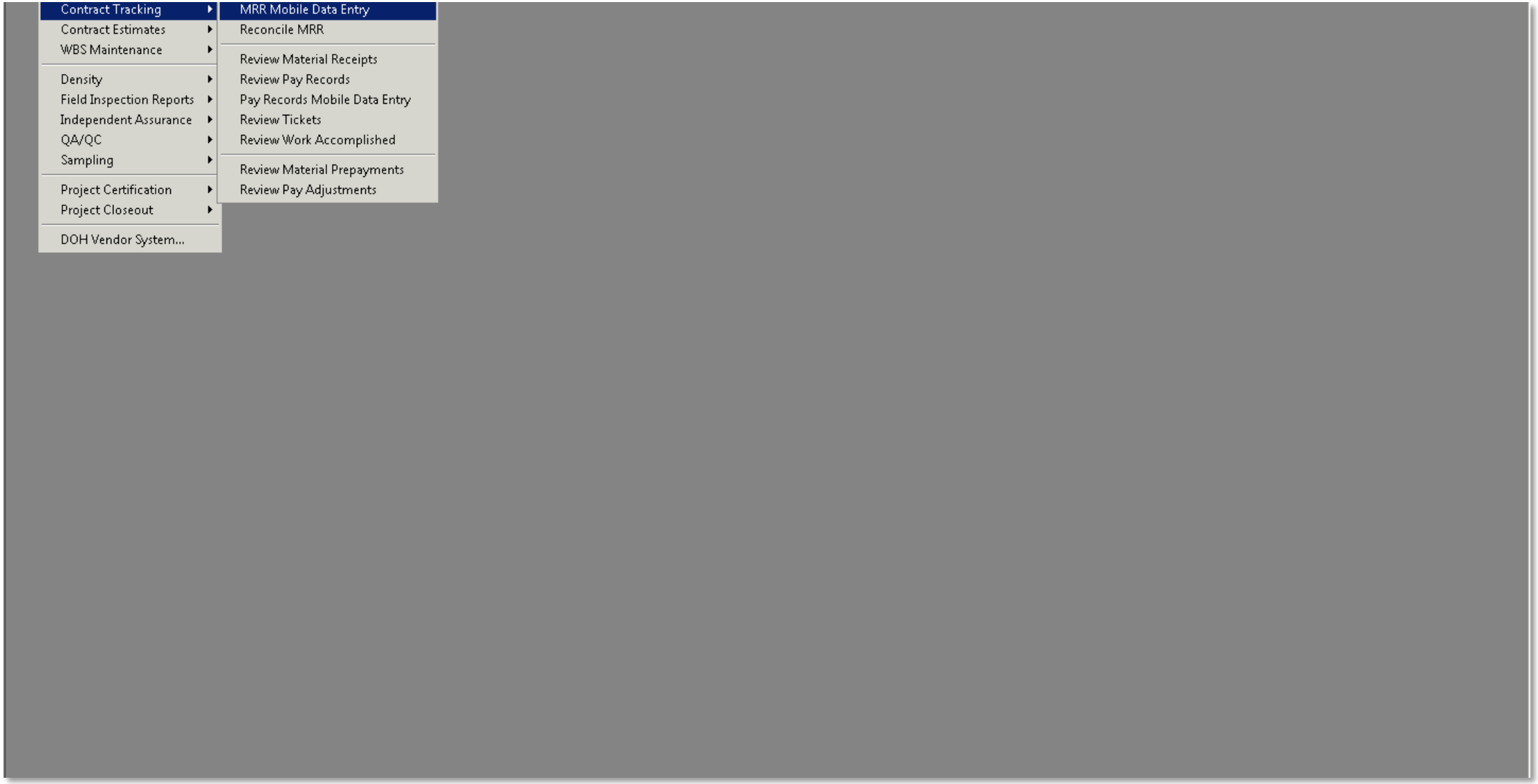
NCDOT Electronic Asset Tracking



The Acceptance Process



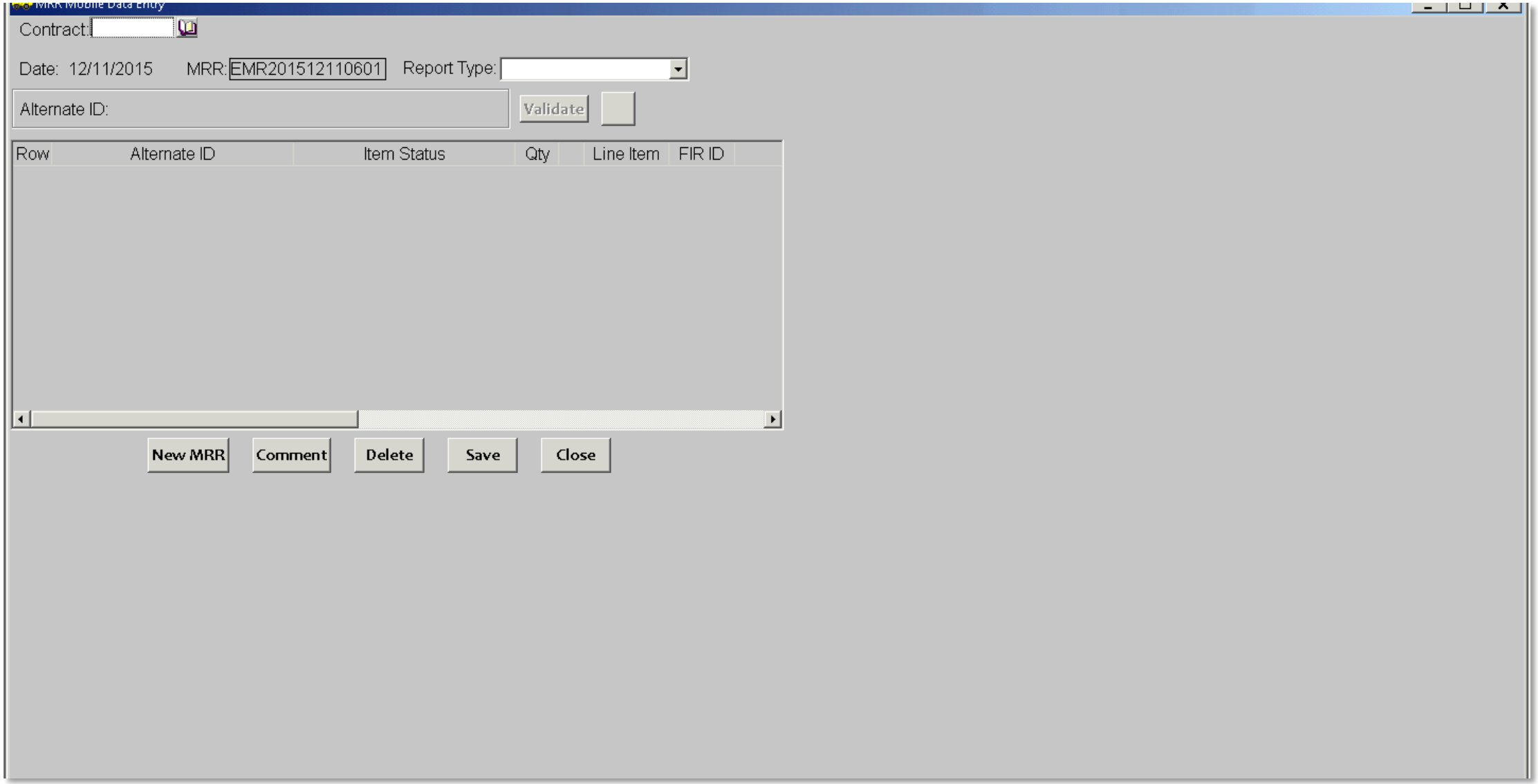
HiCams Entry Mobile App



Access the HiCAMS Mobile App

- Log into Citrix using the Apple Ipad tablet
- Log into HiCAMS
- Go to Contract Tracking in HiCAMS
- Next go to MRR Data Entry
- Information entered on the RFID tags is accessed by scanning the RFID with a reader app.

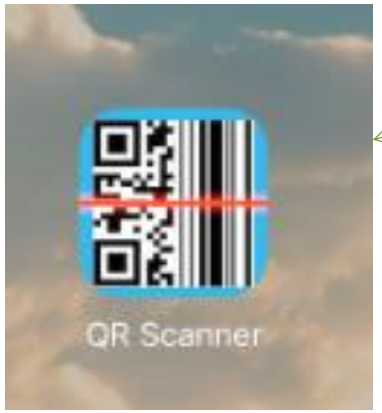
MRR Data Screen

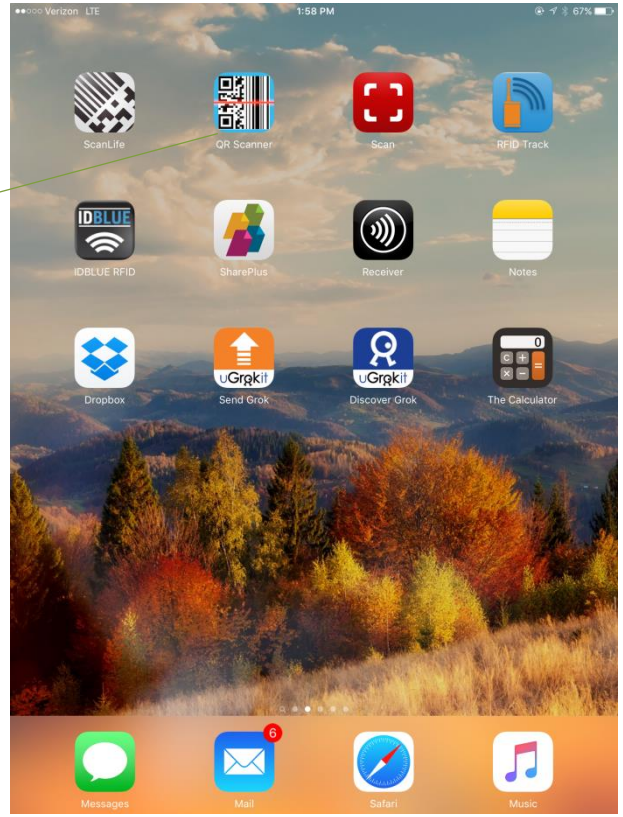


Tablet View

HiCAMS - [train]
File Functions Inquiries References Admin Tools Window Help
Training Environment
MRR Mobile Data Entry (C203646)
Contract: C203646
Date: 12/10/2015
MRR: EMR201512101344
Report Type: Precast Concrete
Alternate ID:
Validate
Row
Alternate ID
Item Status
Qty
Line Item
FIR ID
New MRR
Comment
Delete
Save
Close
Tab Esc Win Ctrl Alt Del Cut Copy
q w e r t y u i o p
a s d f g h j k l return
z x c v b n m
.?123
.?123

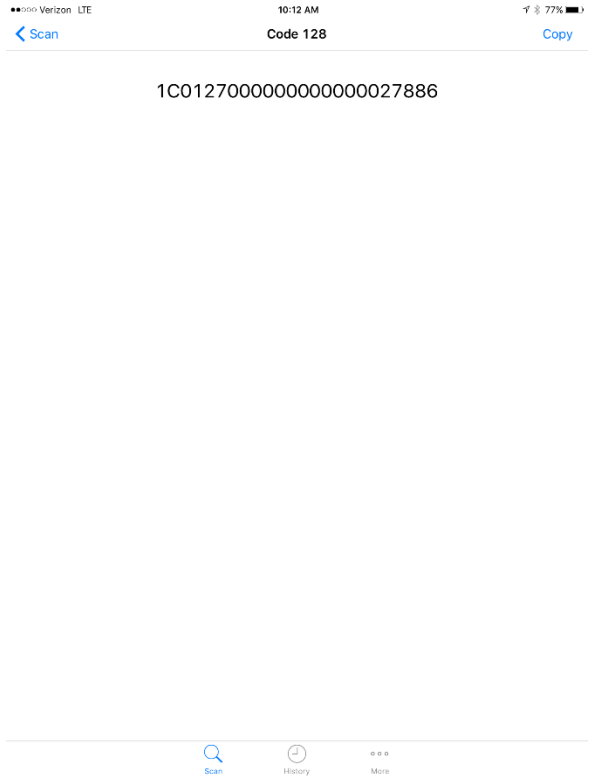
- A RFID or a barcode scanner will need to be downloaded and installed on the Ipad.
- The app will be used to read the number on the RFID tag.
- Once read by the scanner, the number is copied into the HiCAMS MRR application.





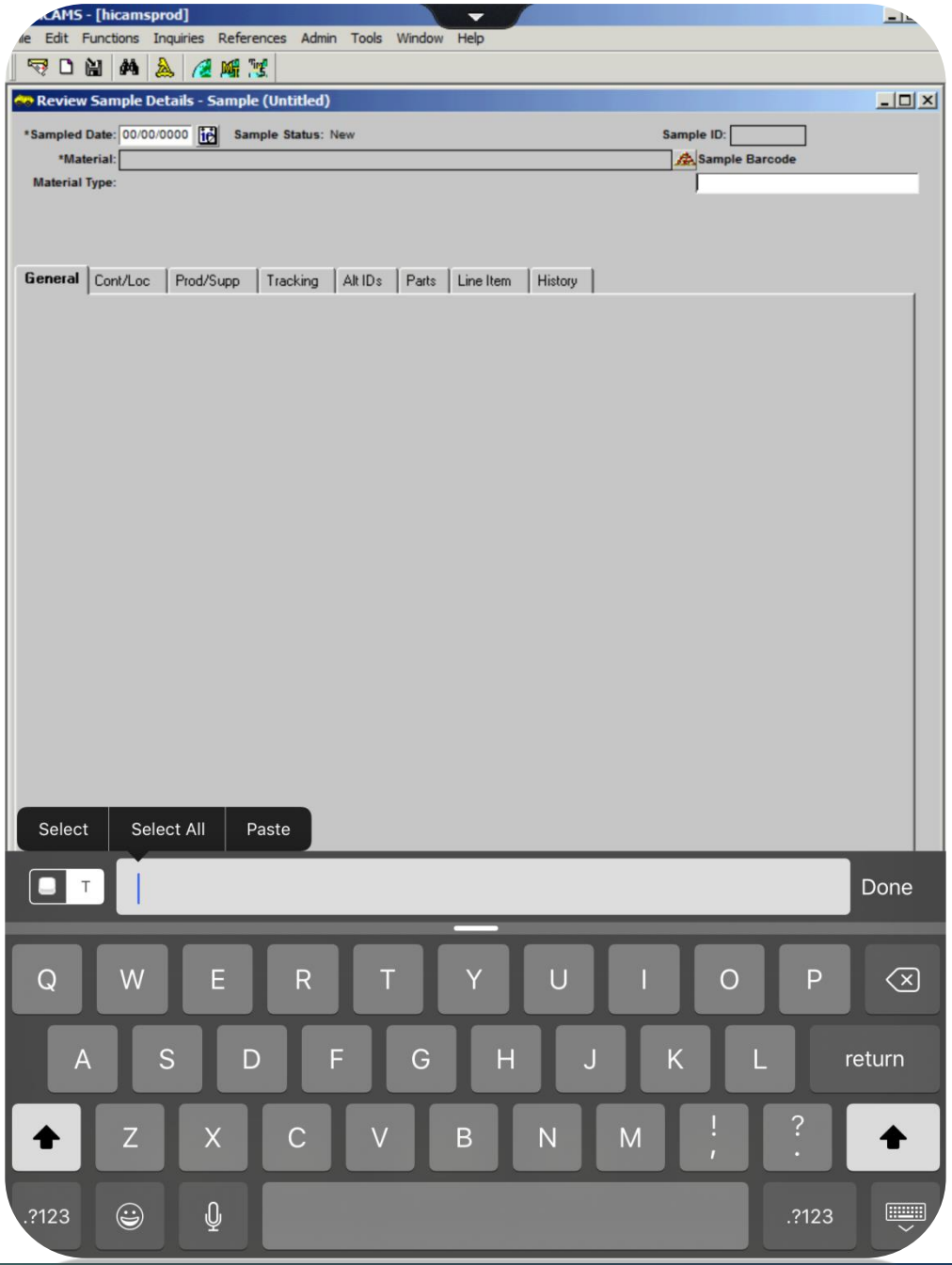
Scanning Process

- After opening HiCAMS and selecting MRR, open the selected Scan app
- Scan the RFID using the Ipad
- Once the tag is recognized by the Ipad, select Copy



To copy number into the MRR app, first click on the T to open the dialog box.

Hold finger on dialogue box until the Paste menu opens.



Click paste to get the scanned number in the dialogue box. Click Send to copy the number into the Alternate ID field.

CAMS - [hicamsprod]
Functions Inquiries References Admin Tools Window Help
MRR Mobile Data Entry (C203646)
Contract: C203646
Date: 12/10/2015
MRR: EMR201512101357
Report Type: Precast Concrete
Alternate ID: 1C012700000000000028160
Validate
Row
Alternate ID
Item Status
Qty
Line Item
FIR ID
New MRR
Comment
Delete
Save
Close
Done

Field Inspection Report (FIR) example

Alternate IDs for Material:

Precast Concrete Noise Wall- Square Feet

Alternate Type	Alternate ID	Status	Quantity	Available
Piece	1C012700000000000027906	Available	1.000	1.000
Piece	1C012700000000000027923	Available	1.000	1.000
Piece	1C012700000000000028060	Available	1.000	1.000
Piece	1C012700000000000028077	Available	1.000	1.000
Piece	1C012700000000000028091	Available	1.000	1.000
Piece	1C012700000000000028092	Available	1.000	1.000
Piece	1C012700000000000028099	Available	1.000	1.000
Piece	1C012700000000000028174	Available	1.000	1.000
Piece	1C012700000000000028193	Available	1.000	1.000
Piece	1C012700000000000028217	Available	1.000	1.000

Define Range

Count: 2

Create Range

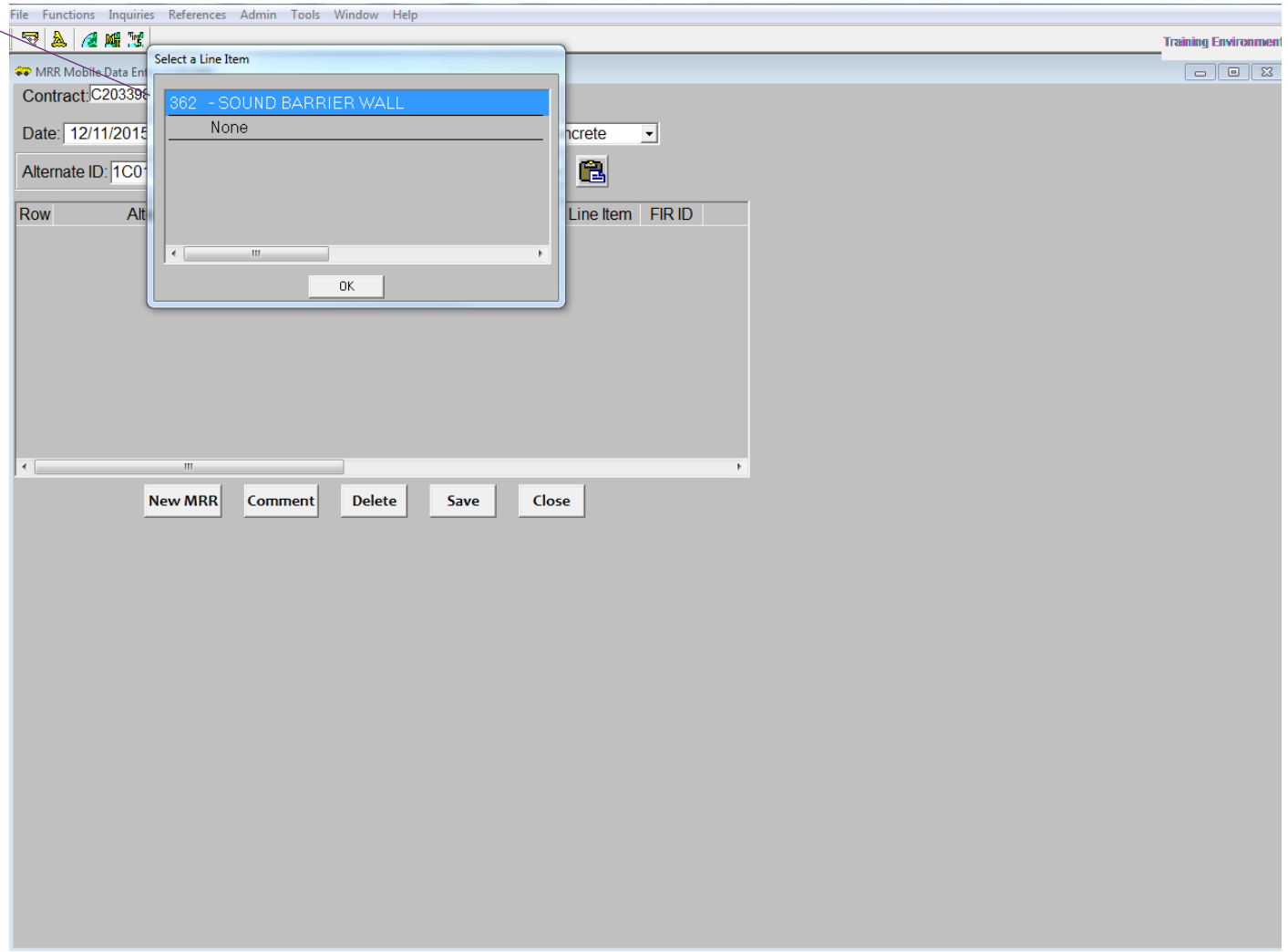
Clear Range

Show Summary

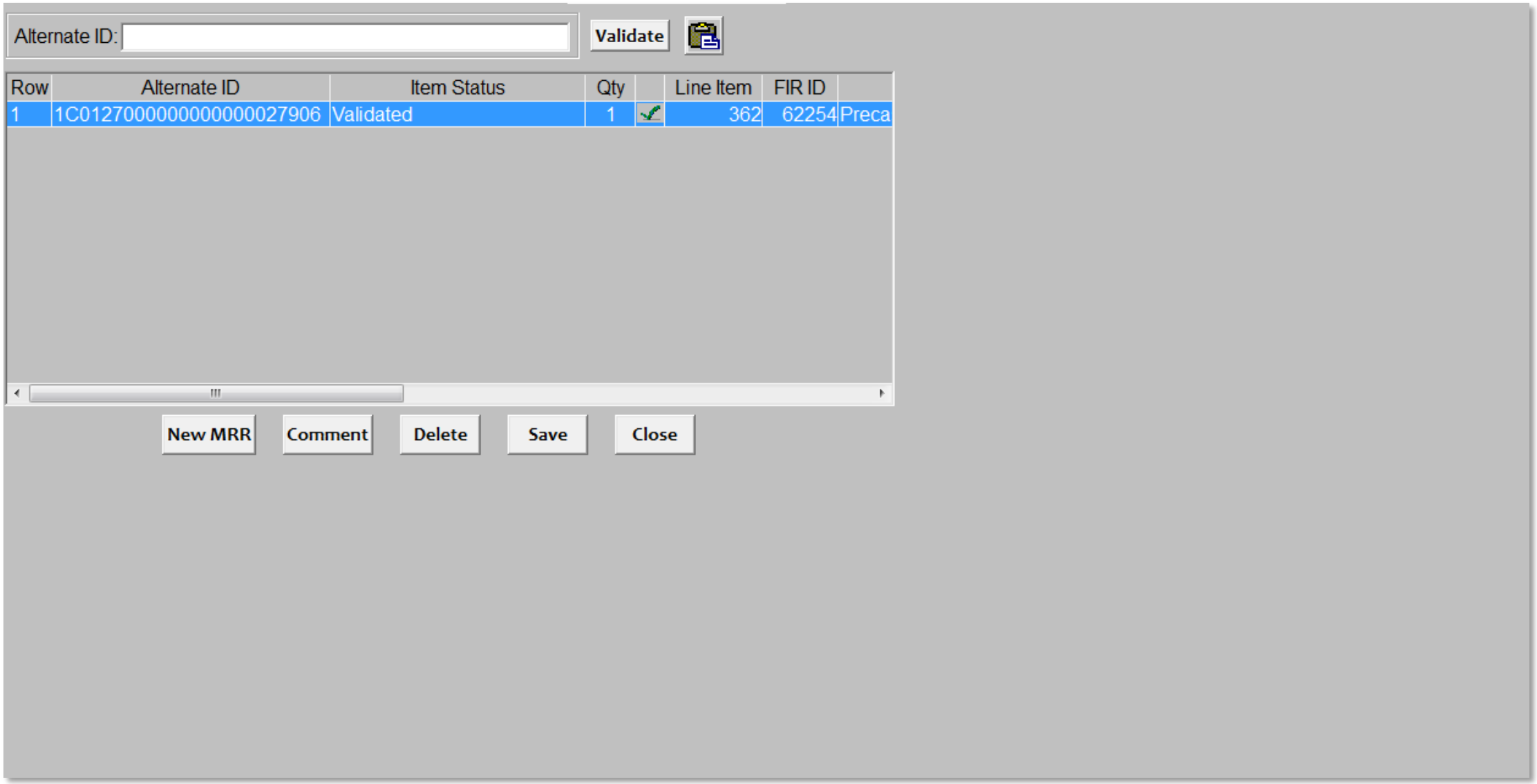
Validation for MRR

After the RFID number is entered, the MRR first checks to ensure the precast piece is on the CBOM.

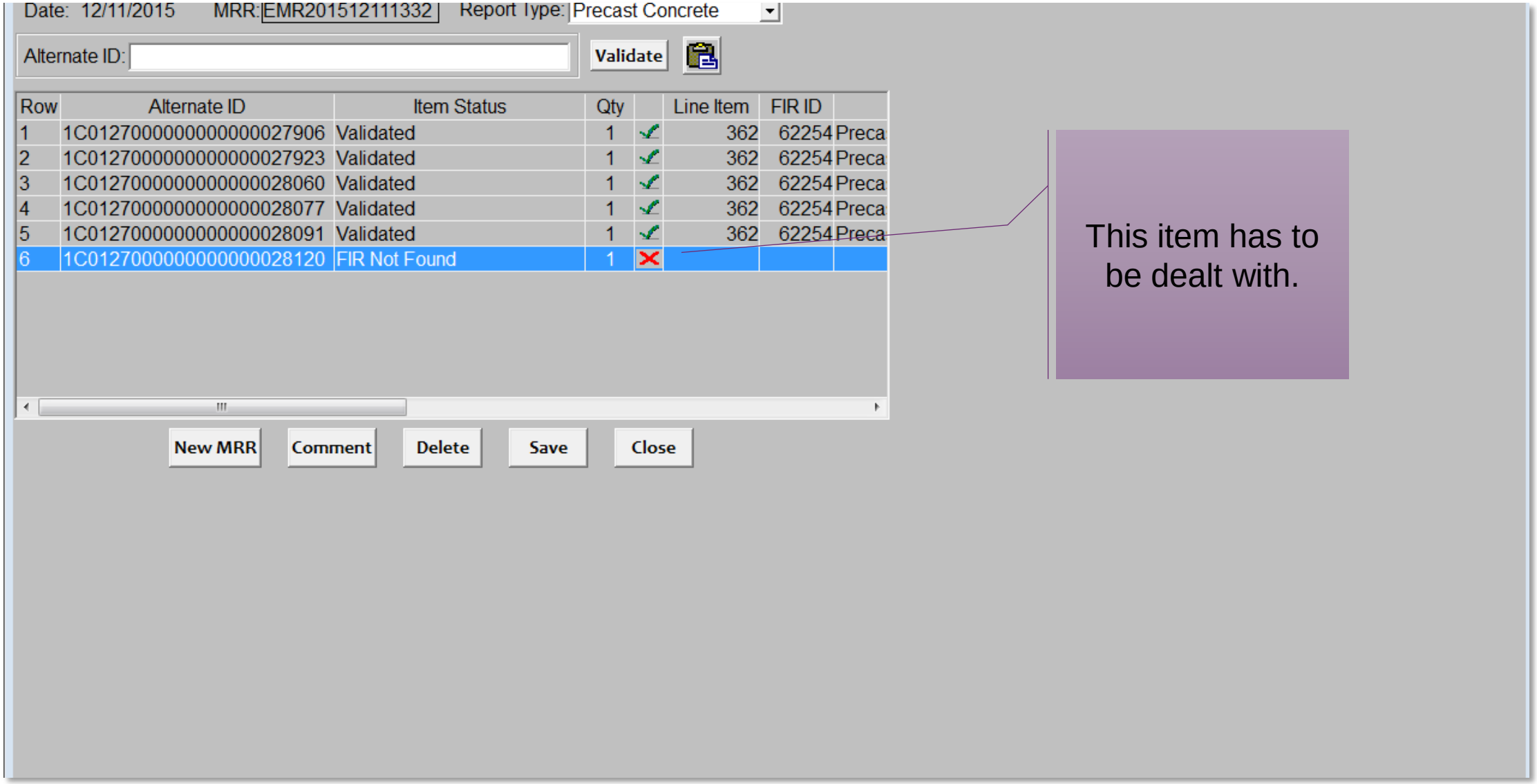
If the precast piece is on the CBOM, and listed on a FIR, it will be added to the MRR



MRR


Alternate ID:
Validate
Row
Alternate ID
Item Status
Qty
Line Item
FIR ID
1
1C012700000000000027906
Validated
1
362
62254
Preca
New MRR
Comment
Delete
Save
Close

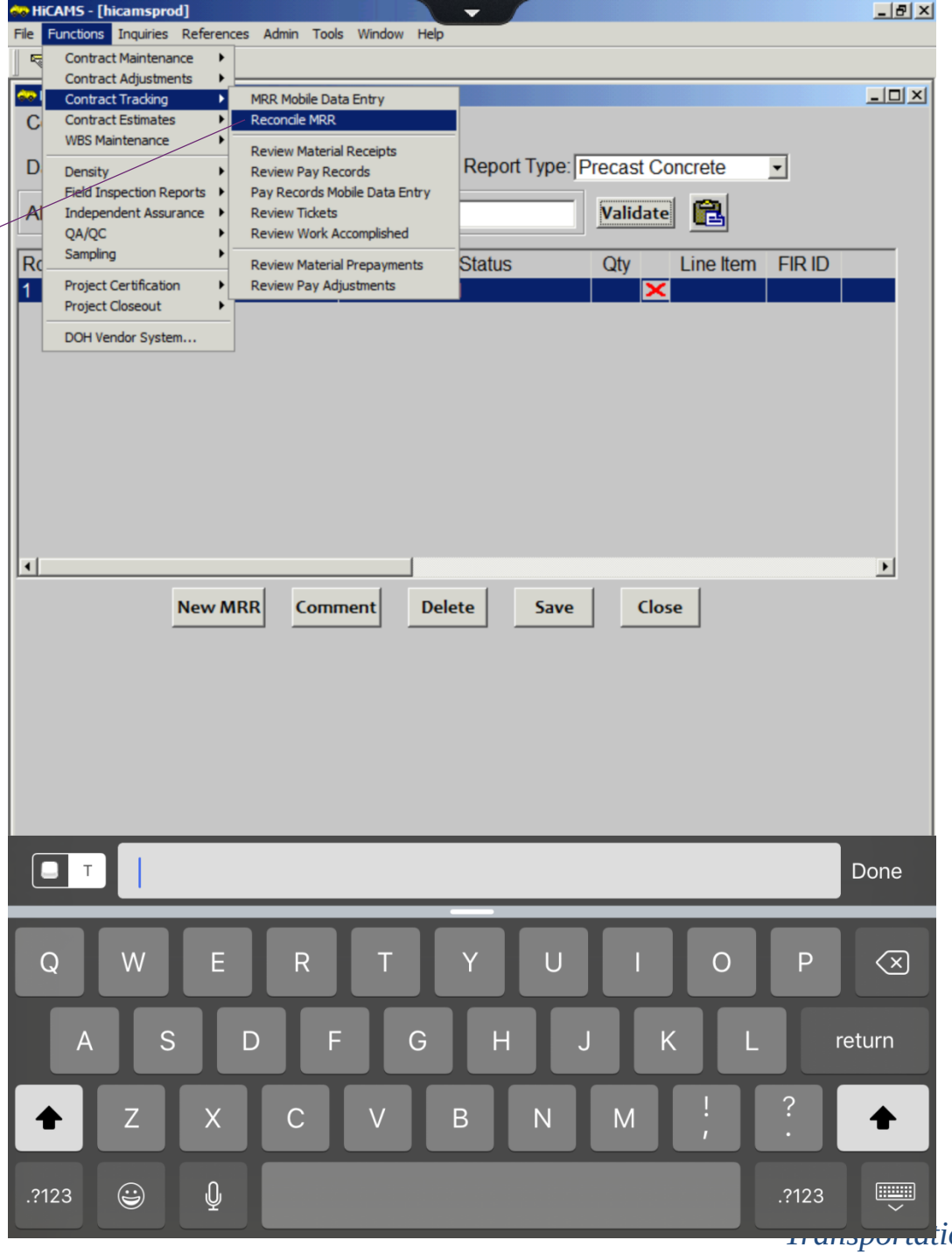
MRR


Date: 12/11/2015
MRR: EMR201512111332
Report Type: Precast Concrete
Alternate ID:
Validate
Row | Alternate ID | Item Status | Qty | Line Item | FIR ID
1 | 1C012700000000000027906 | Validated | 1 | 362 | 62254 | Preca
2 | 1C012700000000000027923 | Validated | 1 | 362 | 62254 | Preca
3 | 1C012700000000000028060 | Validated | 1 | 362 | 62254 | Preca
4 | 1C012700000000000028077 | Validated | 1 | 362 | 62254 | Preca
5 | 1C012700000000000028091 | Validated | 1 | 362 | 62254 | Preca
6 | 1C012700000000000028120 | FIR Not Found | 1
New MRR
Comment
Delete
Save
Close
This item has to be dealt with.

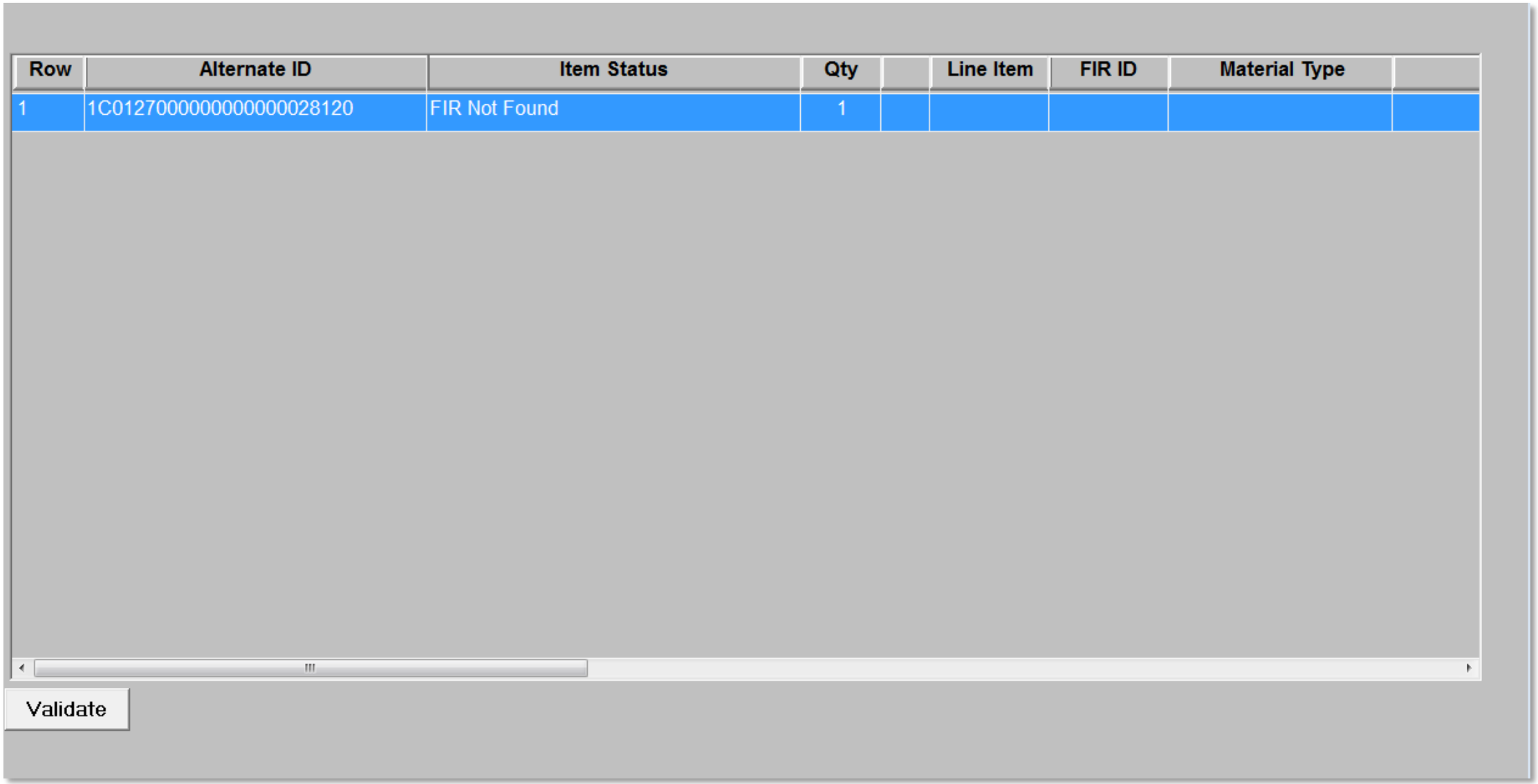
MRR Reconcilation

- If a piece is marked as invalid on the MRR, it is sent to the Reconcile screen for further action.
- The reconcile screen is located just below the MRR screen on the Contract Tracking tab.
- The screen allows further investigation to ensure the piece does not actually belong on the project.
- In conjunction with the Reconcile screen, NCDOT Precast Lookup site is also used to verify the status of the precast item.
- The address for the Precast Lookup site is https://apps.ncdot.gov/vendor/approvedproducts/PrecastLookup.aspx
- After attempting to reconcile, and looking on the Precast Lookup site, the MRR is saved.
- The items on the Reconcile window remain their until resolved.

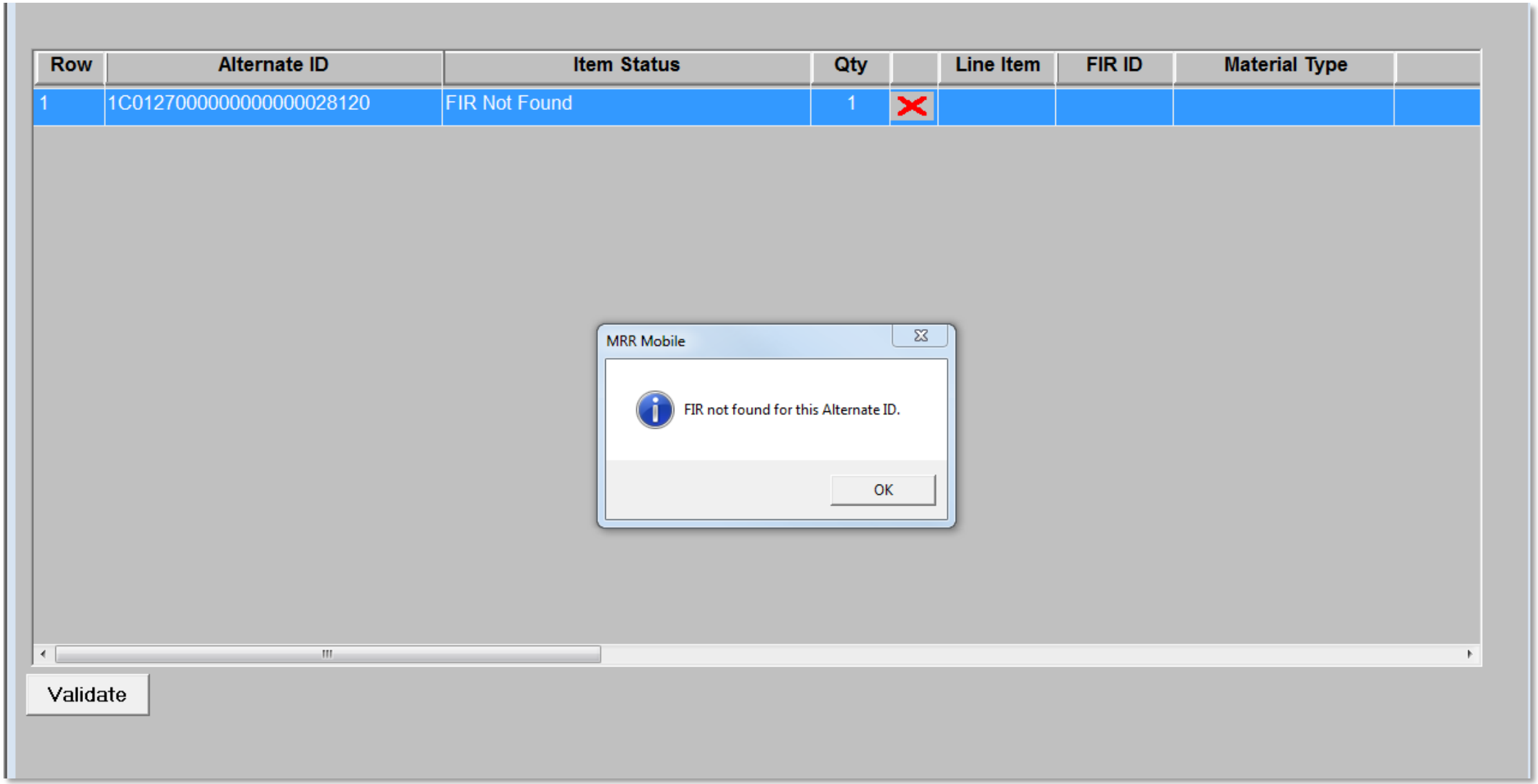
Pull up the Reconcile Screen



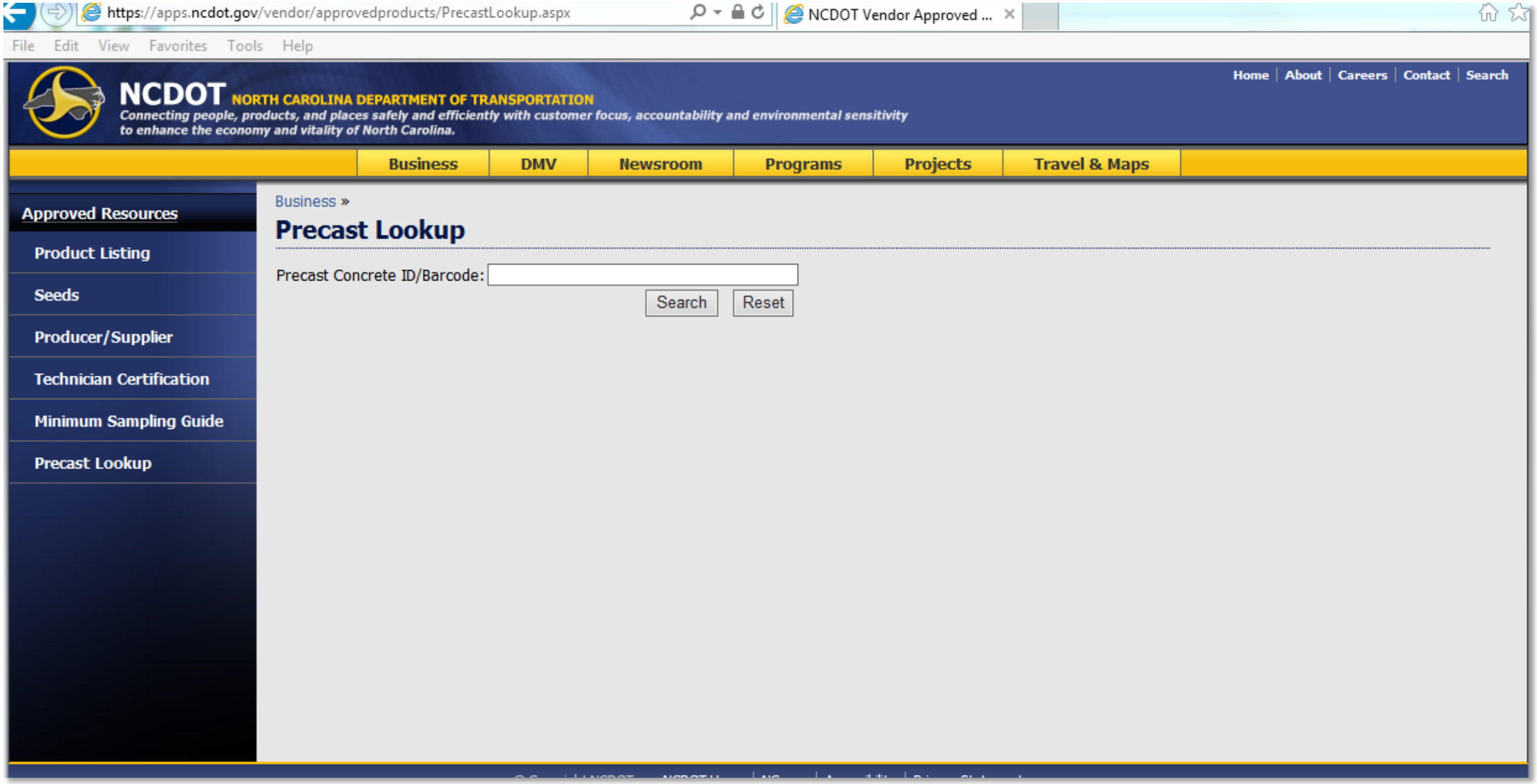
Reconcile MRR Screen



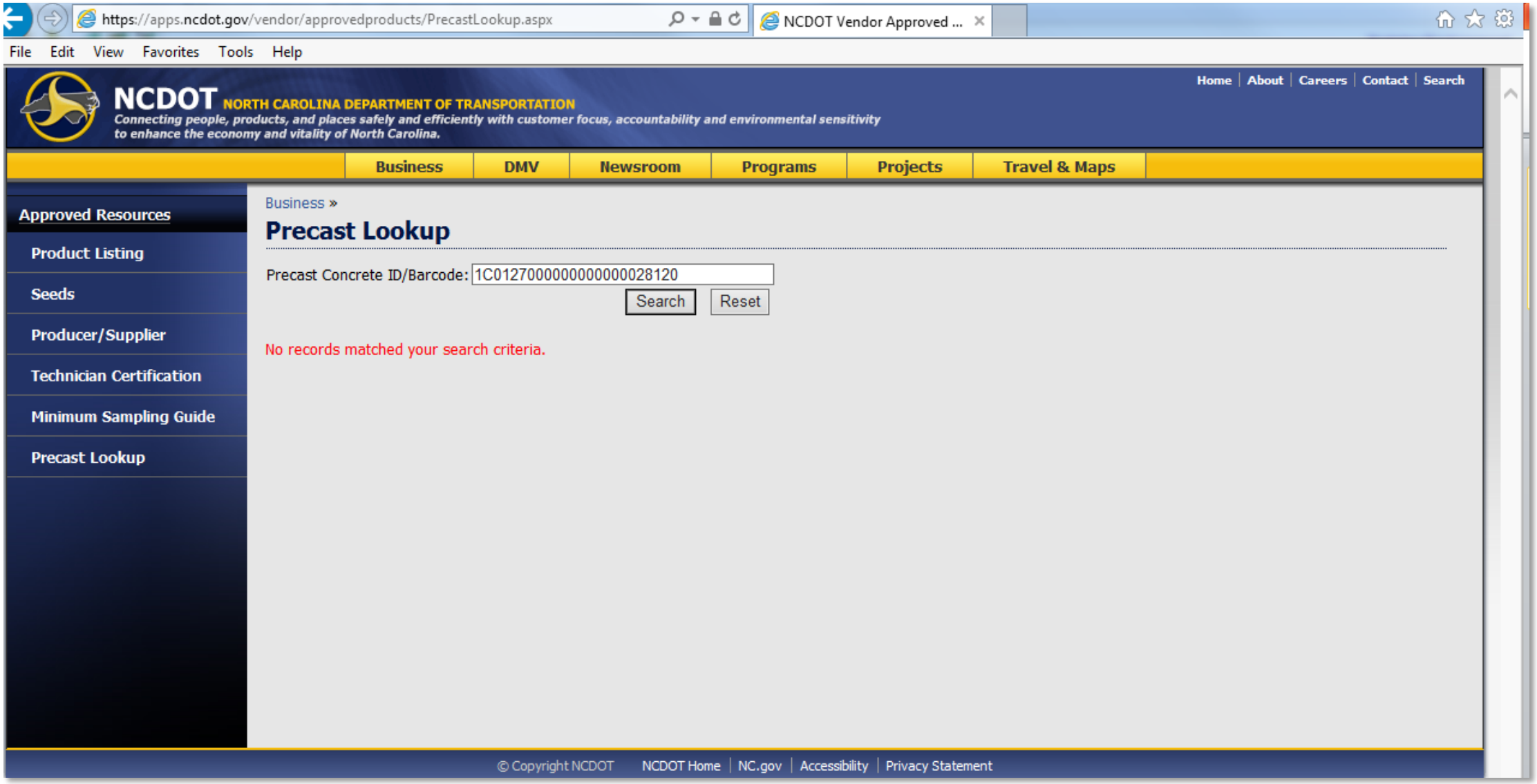
Reconcile Screen



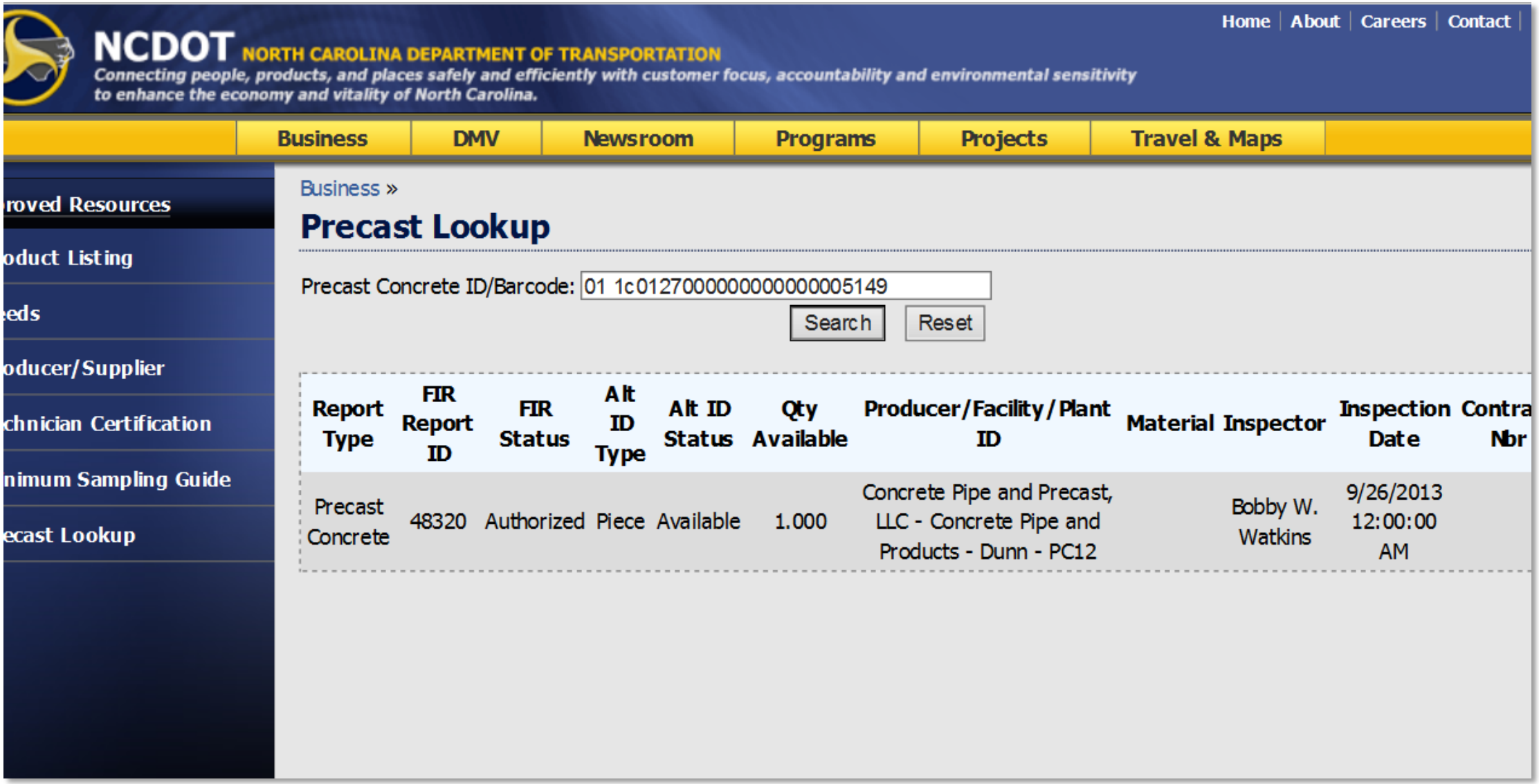
NCDOT Precast Lookup



NCDOT Precast Lookup Page



NCDOT Precast Lookup Page-Tag Found



11-16-15
PC-36-699
PC 36-72-5
11-16-15

FIR Showing Pieces Received

General | Results | Alt IDs | Report | History

Alternate IDs for Material:

Precast Concrete Noise Wall- Square Feet

Alternate Type	Alternate ID	Status	Quantity	Available
Piece	1C012700000000000027906	In Use	1.000	.000
Piece	1C012700000000000027923	In Use	1.000	.000
Piece	1C012700000000000028060	In Use	1.000	.000
Piece	1C012700000000000028077	In Use	1.000	.000
Piece	1C012700000000000028091	In Use	1.000	.000
Piece	1C012700000000000028092	Available	1.000	1.000
Piece	1C012700000000000028099	Available	1.000	1.000
Piece	1C012700000000000028174	Available	1.000	1.000
Piece	1C012700000000000028193	Available	1.000	1.000
Piece	1C012700000000000028217	Available	1.000	1.000

Define Range

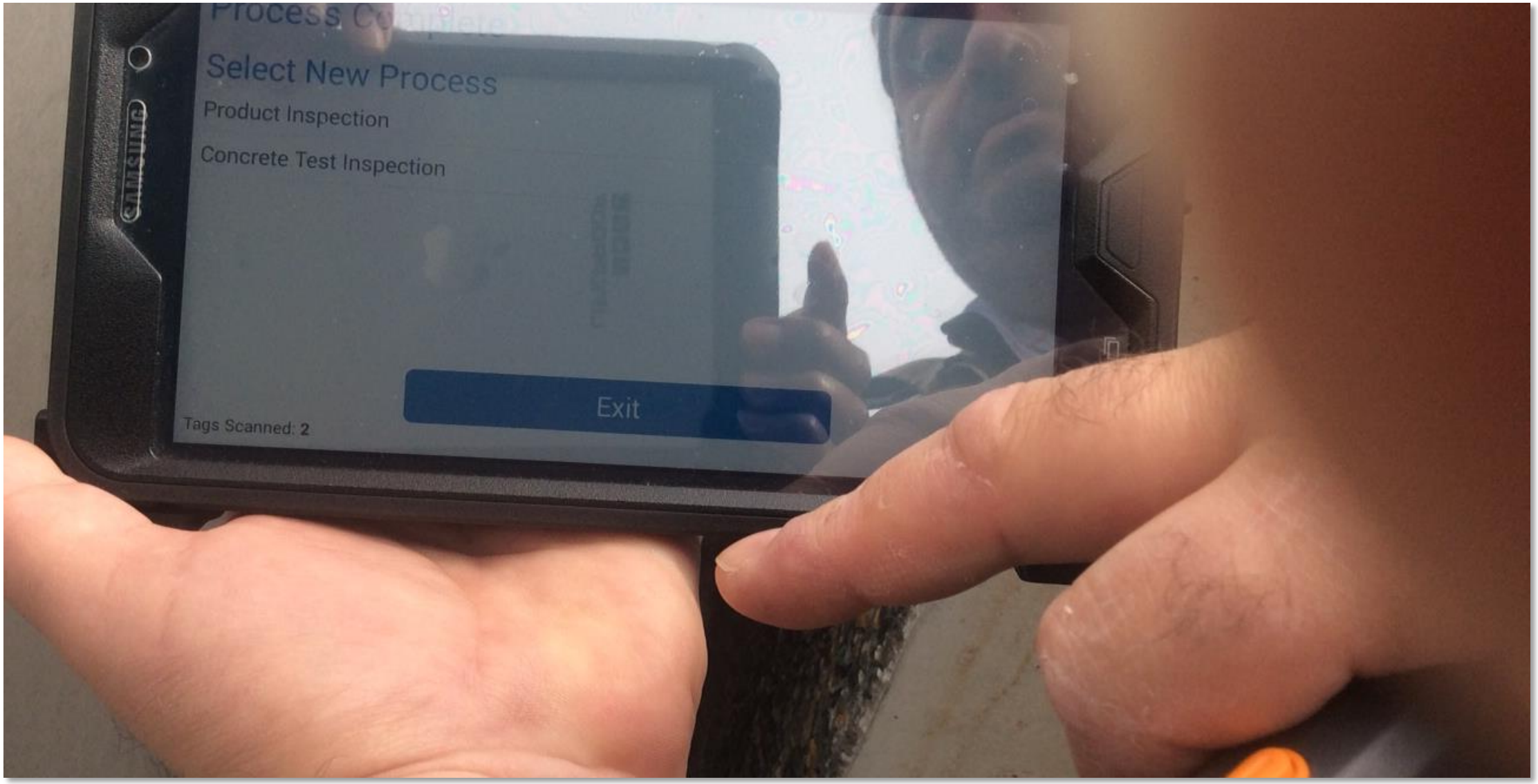
Count: 2

Create Range

Clear Range

Show Summary

QUESTIONS


Select New Process
Product Inspection
Concrete Test Inspection
Exit
Tags Scanned: 2