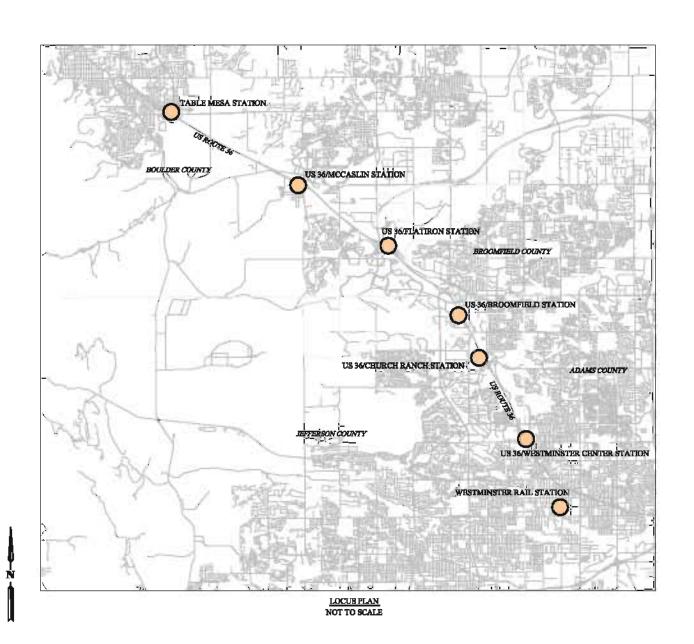
Appendix B

Attachment A: Connectivity Improvements

NORTHWEST CORRIDOR BICYCLE/PEDESTRIAN **ACCESSIBILITY STUDY**



SHEET INDEX

COVER SHEET GENERAL NOTES

DETAILS

TABLE MESA STATION 5-7 US 36/MCCASLIN STATION 10 - 14 US 36/FLATIRON STATION US 36/BROOMFIELD STATION US 36/CHURCH RANCH STATION **US 36/WESTMINSTER CENTER STATION**

WESTMINSTER RAIL STATION





NORTHWEST CORRIDOR BICYCLE/PEDESTRIAN **ACCESSIBILITY STUDY** PEDESTRIAN AND BICYCLE CONNECTIVITY

REV. 1: REV. 2: REV. 3: DRAWN CHECKED: JC

SHEET NAME:

SHEET NUMBER 01 = 24

PAYEMENT MARKINGS SPECIFICATIONS

MATERIALS: ALL THERMOPLASTIC MARKING MATERIALS SHALL CONFORM TO THE COOT STANDARD SPECIFICATIONS FOR BOAD AND BRIDGE CONSTRUCTION

APPLICATION METHOD: ALL PAVEMENT MARKING APPLICATION METHODS SHALL BE APPROVED BY PROJECT DESIGNER PRIOR TO START OF WORK.

PAINTED STRIPING FOR PATH MATERIAL SPECIFICATIONS:

SPRAYABLE NON TOXIC LEAD FREE WATER BOURNE PAVEMENT MARKING PER INDSHA SECTION 550 AT THICKNESS OF 18 ±1 MILS.

STRIPE WIDTH / COLOR:

SMOOTH EDGE WITH CONSTANT ARC IN CURVES (NO WAVERING STRIPE CHARACTER:

OR SERPENTINE APPEARANCE WILL BE ACCEPTED)
BEGINNING 180 FEET (OR PER MARKING PLANS) ON EACH SIDE
OF A BRIDGE OR INTERSECTION THERE SHALL BE A SOLID LINE SOLID LINE: PATTERN IMPLEMENTED IN PLACE OF THE DASHED PATTERN

3' STRIPE / 9' BREAK, DASHED LINE SHALL END ONE FOOT BEFORE RUMBLE STRIPS, CROSSWALKS OR OTHER PAVEMENT MARKINGS. DASHED:

2. THERMOPLASTIC RUMBLE STRIPS: MATERIAL SPECIFICATIONS:

STRIPE WIDTH / COLOR:

90 MILS BEADED
7, 4", AND 6" WIDE / WHITE
THREE SEPARATE LINES BEGINNING AT 150" FROM THE
CROSSING FOR THE FIRST LINES, THE BEAT TWO LINES SHALL BE
PLACED 30" ON CENTER HEADING TOWARD THE INTERSECTION.
EACH STRIP SHALL EXTEND THE ENTIRE WIDTH OF THE TRAIL

3. PAINTED ADVANCE MARKINGS FOR PATH MATERIAL SPECIFICATIONS:

SPRAYABLE NON TOXIC LEAD FREE WATER BOURNE PAVEMENT MARKING PER MDSHA SECTION 660 AT THICKNESS OF 18 ±1

4' HEIGHT / WHITE 2" / 5' SPACING

LETTER WIDTH / SPACING: MINIMUM 70' FROM CONCRETE THRESHOLD OR STOP SIGN

SIGN NOTES

1. APPLICABLE SPECIFICATIONS AND STANDARDS: CDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMERICAN SOCIETY FOR TESTING AND IMPERIALS (ASTM), AND ALL LOCAL JURISDICTIONAL SPECIFICATIONS. THE MOST STRINGENT SPECIFICATIONS SHALL GOVERN.

- A. IF SITE CONDITIONS VARY FROM PLAN, CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION
- 8. DIMENSIONS FOR LEGEND 8ZE AND ALL RELATED DIMENSIONS FOR SIGN LAYOUT, PANEL SIZES, POST SIZES, MOUNTING DIMENSIONS ARE AS SPECIFIED IN THE PLANS. C. ALL GRAPHIC FORMATS, USE OF TYPOGRAPHY, COLOR, DIRECTIONAL ARROW GRAPHICS, AND
- PICTOGRAMS ARE AS SPECIFED IN THE PLANS. SHOP DRAWINGS OF PROPOSED SION LAYOUTS SHALL BE SUBMITTED AND APPROVED PRIOR TO SIGN PANEL FABRICATION.

 D. ALL STRUCTURES SHALL BE ENGINEERED TO MEET A VARIETY OF SITE CONDITIONS. SIGNS SHALL BE
- ENGINEERED FOR WIND LOADS, SOIL CONDITIONS, FROST DEPTH, AND STRUCTURAL INTEGRITY. SPECIAL CONDITIONS THAT ARE CUTSIDE THESE PARAMETERS ARE TO BE ENGINEERED ON A SITE-SPECIFIC BASIS. THE DESIGN OF THE STRUCTURAL REQUIREMENTS OF SPECIAL ONE-OF-A-KIND SIGNS SHALL CONFORM TO THE BASIC ASSEMBLY SPECIFICATIONS FOR SIMILAR SIGN TYPES. THE MODIFIED ASSEMBLY SHALL FULFILL THE REQUIREMENTS OF LOCAL CRITERIA FOR WIND PRESSURE, SOIL, AND FROST DEPTH.
 ALL SIGN ENGINEERING AND STRUCTURAL INTEGRITY WILL BE THE RESPONSIBILITY OF THE CONTRACTOR
 UNLESS OTHERWISE NOTED.
- E. ALL FINISHED SIGN PANELS SHALL BE PROVIDED WITH A 1-1/4" X 2-1/2" WEATHER RESISTANT DENT FIGATION PLACED ON THE BACK OF THE SIGN INDICATING SIGN PLAN ID NUMBER, MANUFACTURER, DATE OF FABRICATION, AND INSTALLATION DATE.

3. FABRICATION:

- FABRICATION:

 A PROVIDE SHOP AND FABRICATION DRAWINGS FOR REVIEW AND APPROVAL DETAILING THE PROPOSED FABRICATION OF ALL SIGNS AND STRUCTURES INDICATED IN PLAN DOCUMENTS.

 B. THE CONTRACTOR SHALL PREPARE, FOR REVIEW BY THE OWNERS REPRESENTATION'S FABRICATION SHOP DRAWINGS. UPON REVIEW OF THE SHOP DRAWINGS THE CONTRACTOR SHALL MAKE ALL CORRECTIONS AND ADJUSTMENTS. AS INDICATED AND RESUBBILIT FOR REVIEW AND APPROVAL, REVISIONS TO SHOP DRAWINGS SHALL INCLUDE A REVISION DATE, FABRICATION SHOP DRAWINGS SHALL BOLLING BUT AND APPROVAL.
- NOLIDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

 C. ALIMINUM PANIEL, TUBULAR STEEL POSTS, INCUMING HARDWARE AND MATERIAL, FINISHES SHALL MEET
 OR EXCEPT THE STANDARDS AND SPECIFICATIONS HEREIN OR BY REFERENCE. ALL MATERIALS SHALL
 COMPLY WITH THIS SPECIFICATION OR APPROVED EQUAL

 D. ALL SIGN USED FOR TRAFFIC CONTROL SIGNS SHALL BE MOUNTED ON 2" GALVANIZED STEEL, PERFORATED
 ("OLICK PUNCH"), SOLARE TUBE POSTS (14 GALVA) INSERTED INTO A 2-1/2" GALVANIZED STEEL SOLARE TUBE SLEEVE (3"
 LONG). THE ANCHOR SHALL NOT EXTEND MORE THAN TWO QUICK PUNCH HOLES ABOVE GROUND LEVEL. 4 INSTALLATION:
- A. ALL TRAFFIC CONTROL SIGNS LOCATED WITHIN COUNTY RIGHTS-OF-WAY ARE TO BE ARE TO BE STAKED AND BE FIELD APPROVED PRIOR TO INSTALLATION BY THE LOCAL REPRESENTATIVE.

 8. ALL TRAFFIC CONTROL DEVICES AND THEIR LOCATIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE
- NANUAL ON IMPORM TRAFFIC CONTROL DEVICES (MUTCO) AND COLORADO SUPPLEMENT.

 C. SIGN LOCATIONS SHALL BE MARKED WITH A STAKE AND SHALL HAVE THE SIGN TYPE CODE, AND LOCATION CODE, AND
- CORRESPOND TO THE SIGN LOCATION IN THE PLAN DRAWINGS.
- CORRESPOND TO THE SIGN LOCATION IN THE PLAN DRAWINGS.

 D. UNFORESEEN OBSTRUCTIONS MAY LIMIT THE DEPTH OF A STANDARD FOOTING OR REQUIRE SPECIAL MITIGATION TO PREVENT DAMAGE TO EXISTING TREE ROOTS, WHERE POSSIBLE, MOVE THE SIGN AS NEEDED TO ALLOW LINCONSTRAINED SUBSURFACE INSTALLATION. ADJUST SIGN INSTALLATION LOCATIONS TO KEEP THEM BEYOND THE DRIP LINE OF TREES WHEREVER POSSIBLE, MOTHER THE PROJECT DESIGNER OF ANY PROPOSSED SIGN LOCATIONS WITHIN THE DRIP LINE OF THE TREES. THE DRIP LINE SHALL BE DEFINED AS THE AREA BELOW THE FARTHEST-SPREADING BRANCHES OF A TREE. IF A SIGN PLACEMENT LOCATION MUST BE MOVED, THE CONTRACTOR SHALL GET APPROVAL OF THE PROJECT DESIGNER ANDOR COUNTY REPRESENTATIVE. IF THE SIGN CAN BE LOCICALLY MOVED, VERIFY SIGHT-LINES OF ADJUSTED LOCATIONS TO AFFRIM THAT SIGN IS STILL VISIBLE FROM THE DESIGNATED APPROACH.

 5. TRAFFIG CONTROL SIGNS SHOULD BE INSTALLED AT A MINIMUM 7 HEIGHT WITH A MINIMUM CLEAR SPACE FROM EDGE OF TITAL.

5. SIGN POSTS: 2-PUNCH SQUARE TUBULAR POSTS.



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DETAILSCONSTRUCTION DETAILS, OTHER THAN THOSE FOUND ON SHEETS 2 AND 3, ARE PROVIDED IN THE COLORADO DEPARTMENT OF TRANSPORTATION MAS

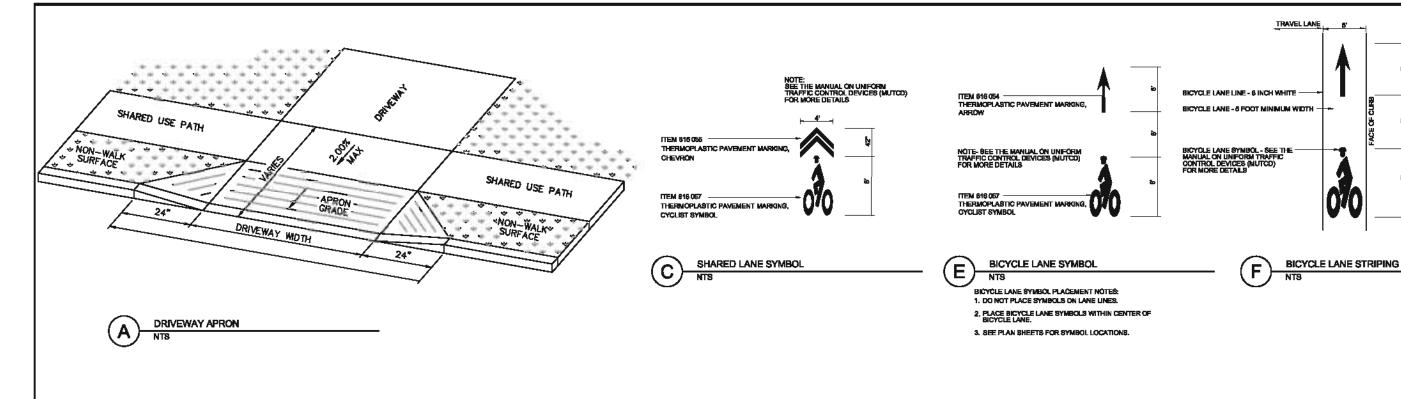
STANDARD DRAWINGS DATED JULY 4, 2012, OR MOST CURRENT AS

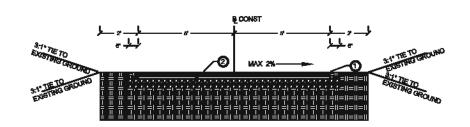
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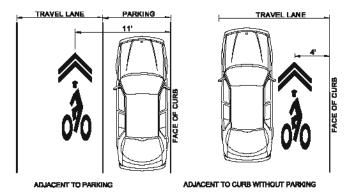


● 6° PORTLAND CEMENT CONCRETE PAVEMENT

OF THE PAVEM 6" AGGREGATE BASE COURSE ON 24" MOISTURE-TREATED BUBGRADE

TYPICAL TRAIL CROSS SECTION NOTES:

MAXIMUM 6LOPE 3:1 OR IN ACCORDANCE WITH LOCAL JURISDICTIONAL RECUIREMENTS, WHICHEVER IS LESS STEEP.



SHARED LANE SYMBOL PLACEMENT

SHARED LANE SYMBOL PLACEMENT NOTES:

- 4. DO NOT PLACE SYMBOLS ON LANE LINES.
- 5. SEE PLAN SHEETS FOR SYMBOL LOCATIONS.

▲ Toole Design Group 1062 DELAWARE ST., DENVER, CO 80204



NORTHWEST CORRIDOR BICYCLE/PEDESTRIAN ACCESSIBILITY STUDY PEDESTRIAN AND BICYCLE CONNECTIVITY

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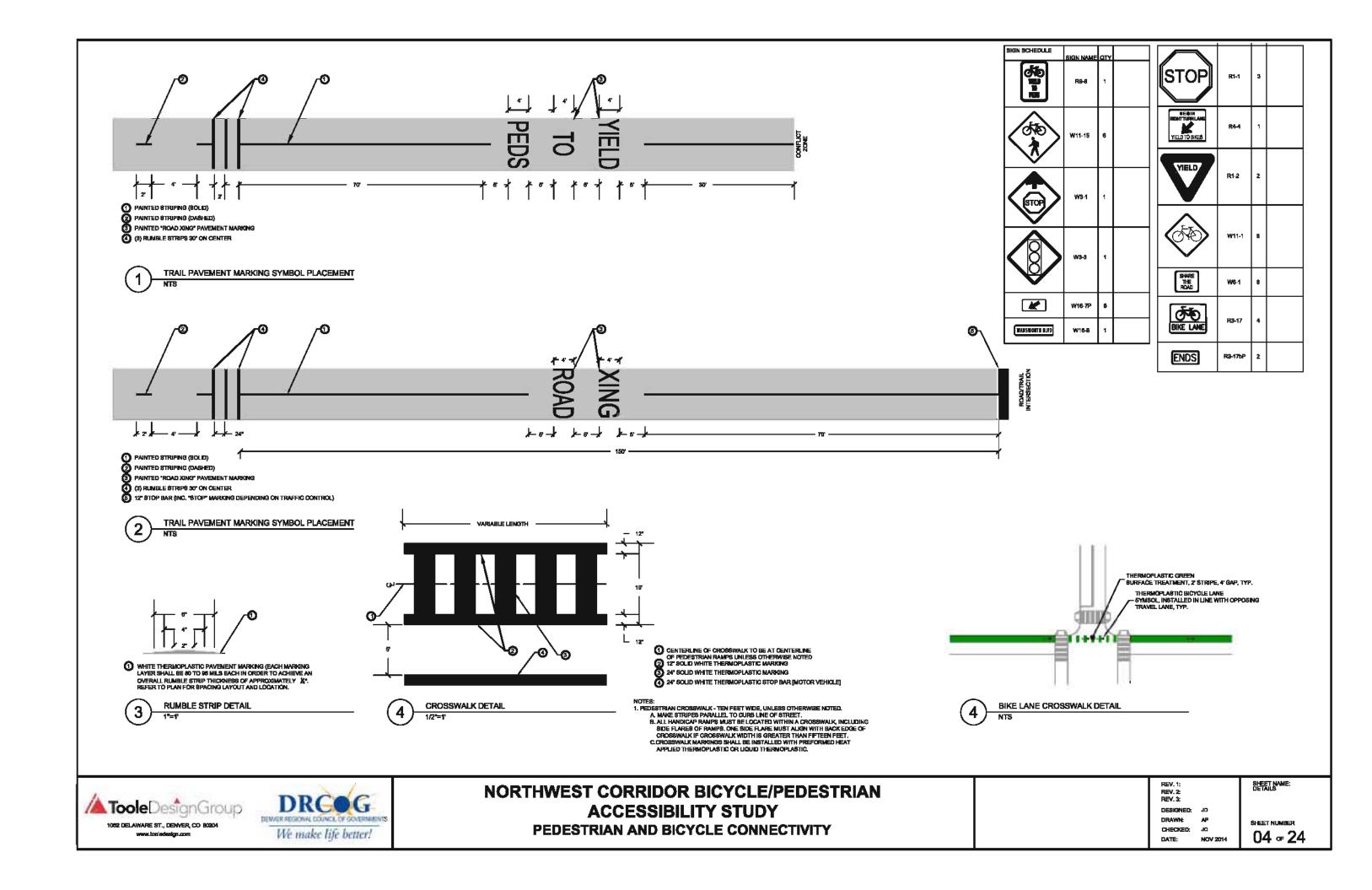
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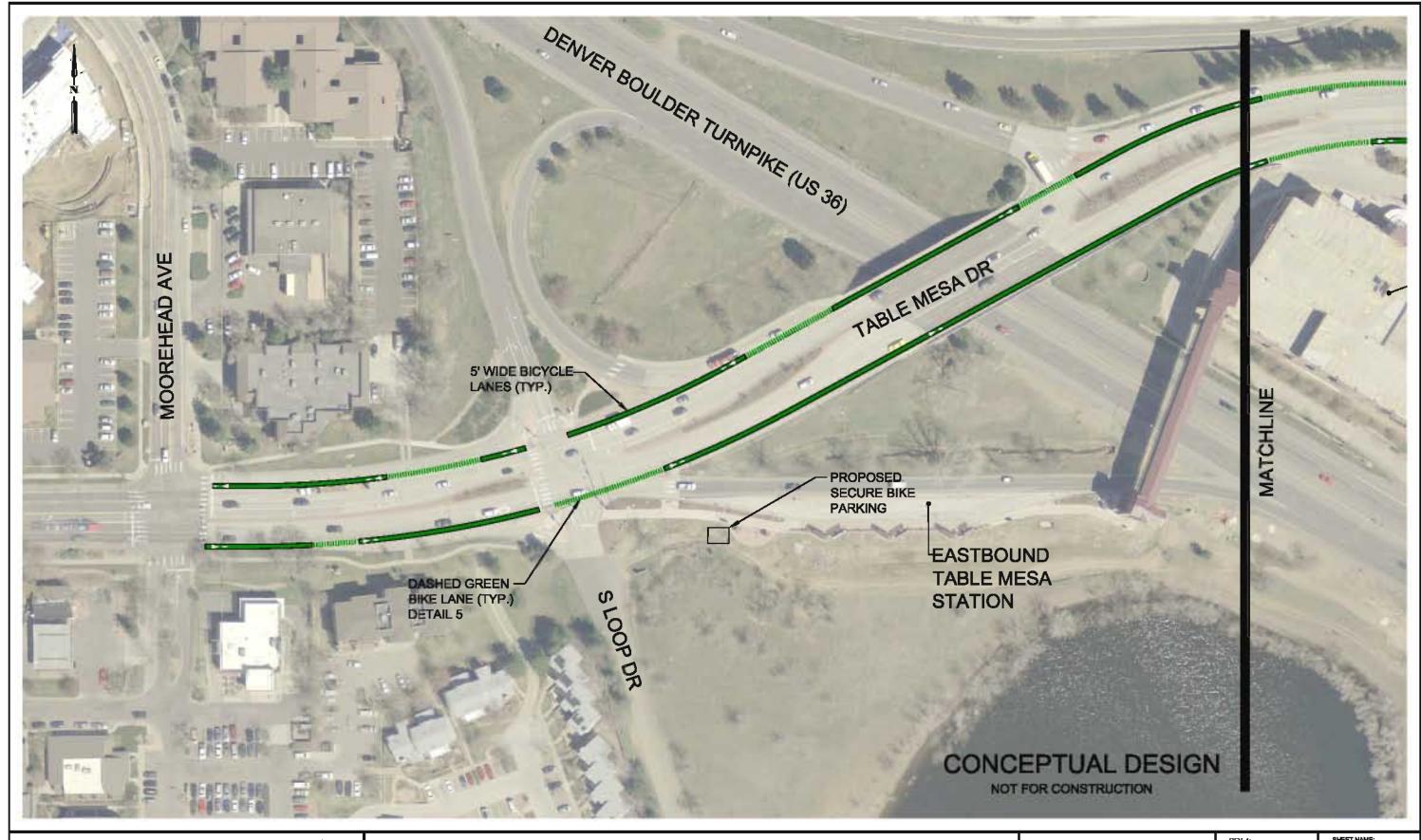
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SHEET NUMBER **03 ≈ 24**

SHEET NAME: DETAILS









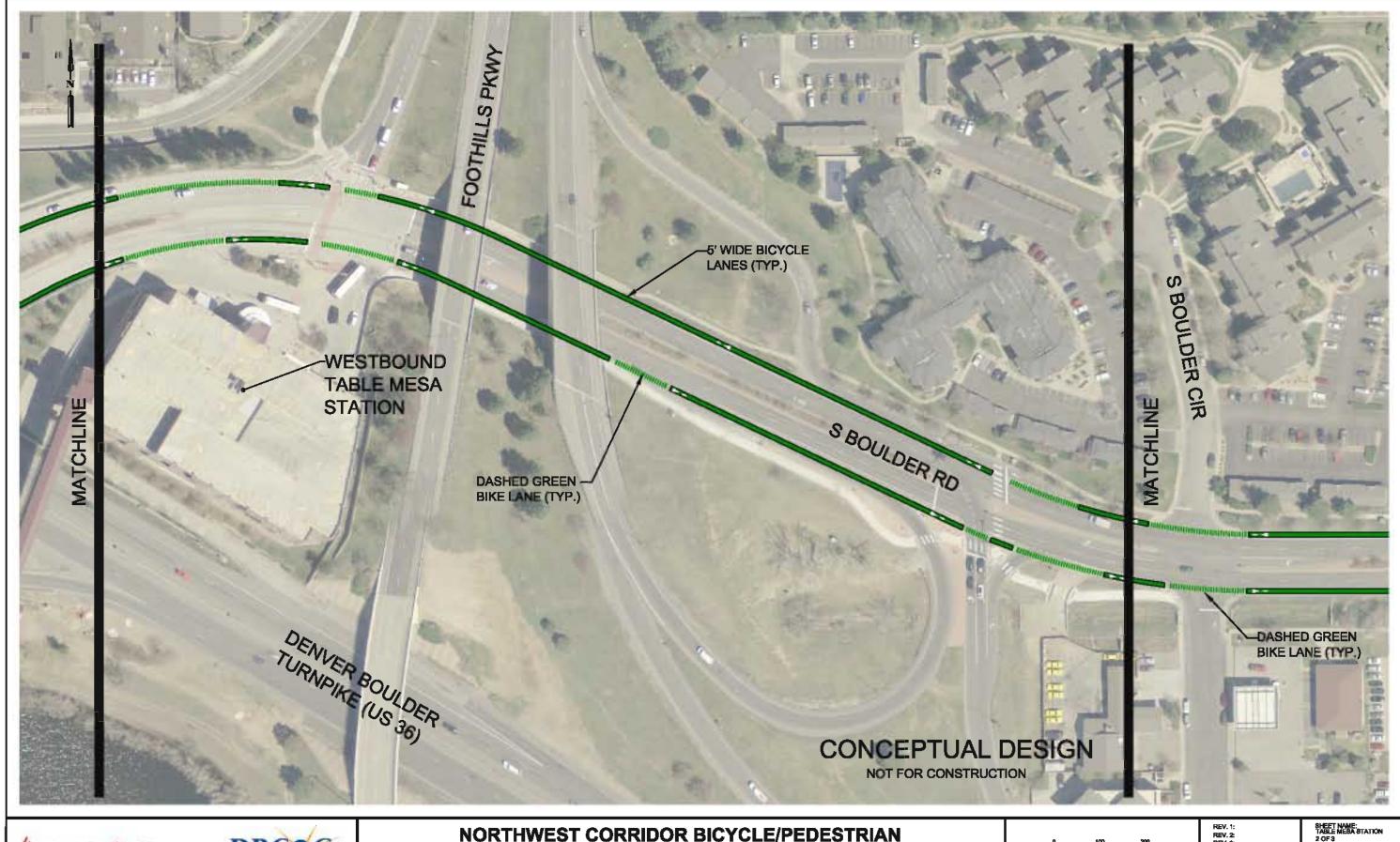


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REV. 2:
REV. 3:
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DRAWN: AF
CHECKED: JC

DATE:

SHEET NAME: TABLE MESA STATION 1 OF 3 SHEET NUMBER

05 **≈** 24





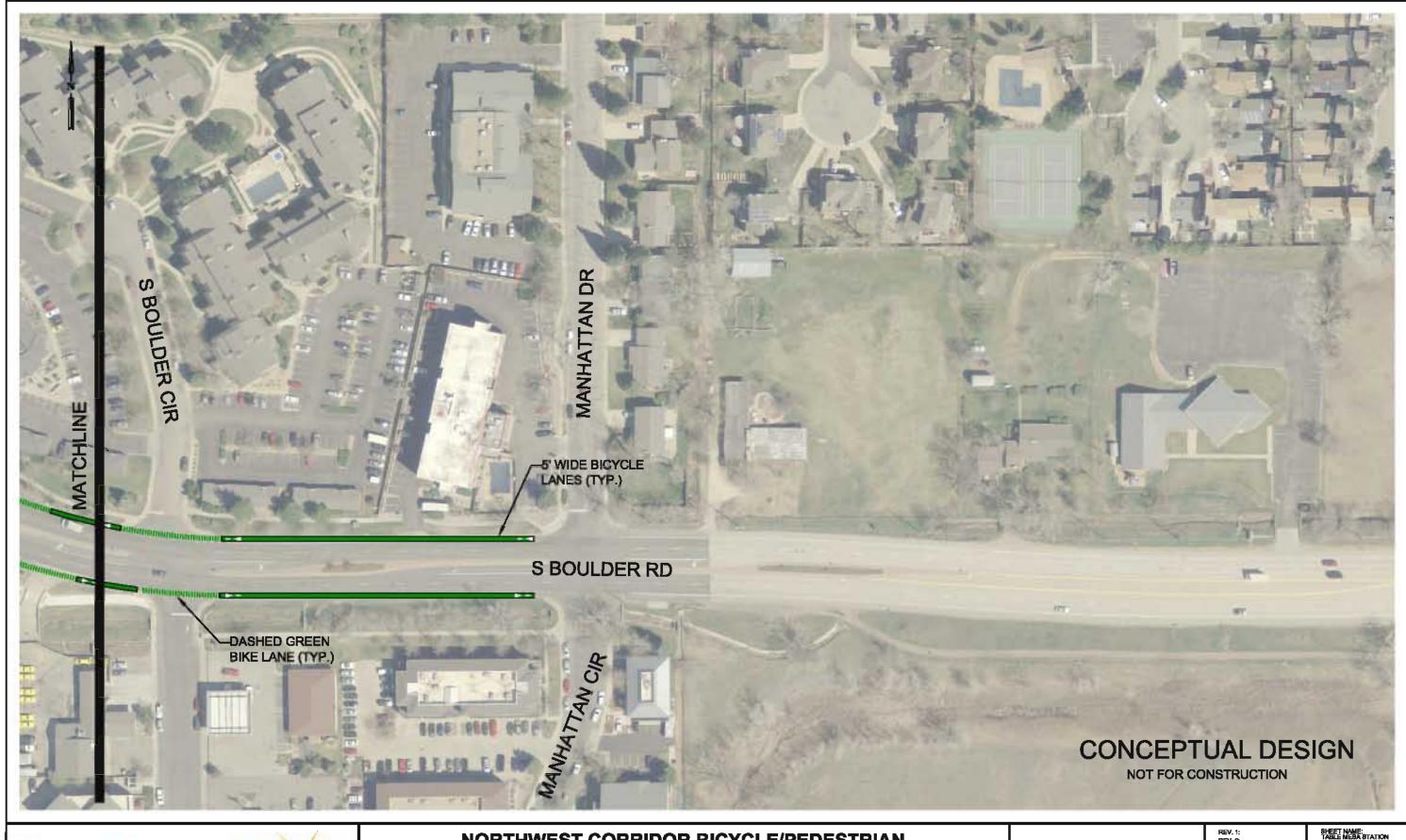




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DRAWN: AP
CHECKED: JC
DATE: NOV

SHEET NAME: TABLE MESA STATION 2 OF 3 SHEET NUMBER

06 of 24





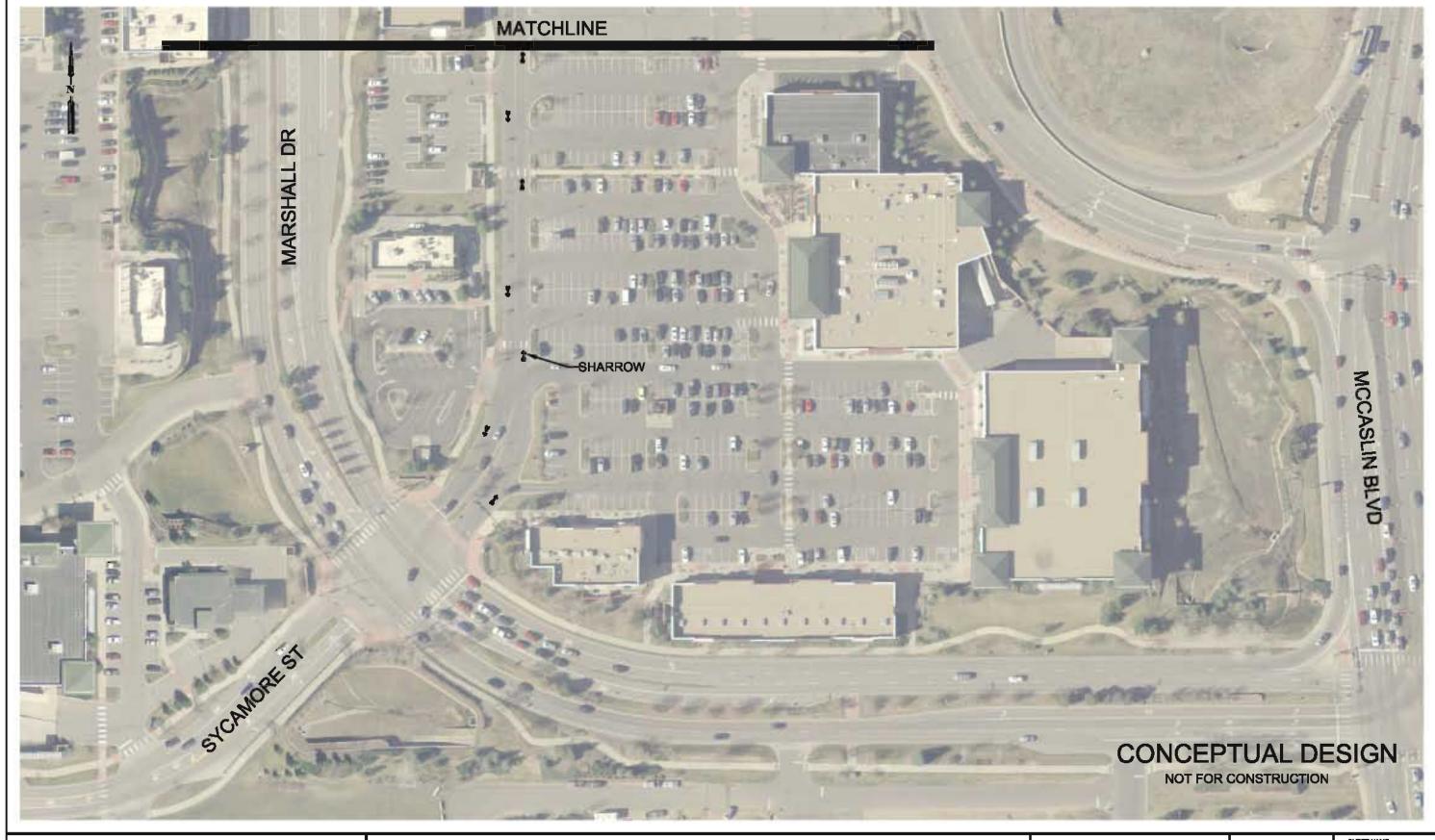




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REV. 3:
DESIGNED: JD
DRAWN: AP
CHECKED: JG
DATE: NOV

SHEET NAME: TABLE MESA STATION 3 OF 3

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SHEET NAME:
US SHANCCASLIN STATION
1 OF 2
SHEET NUMBER
08 of 24









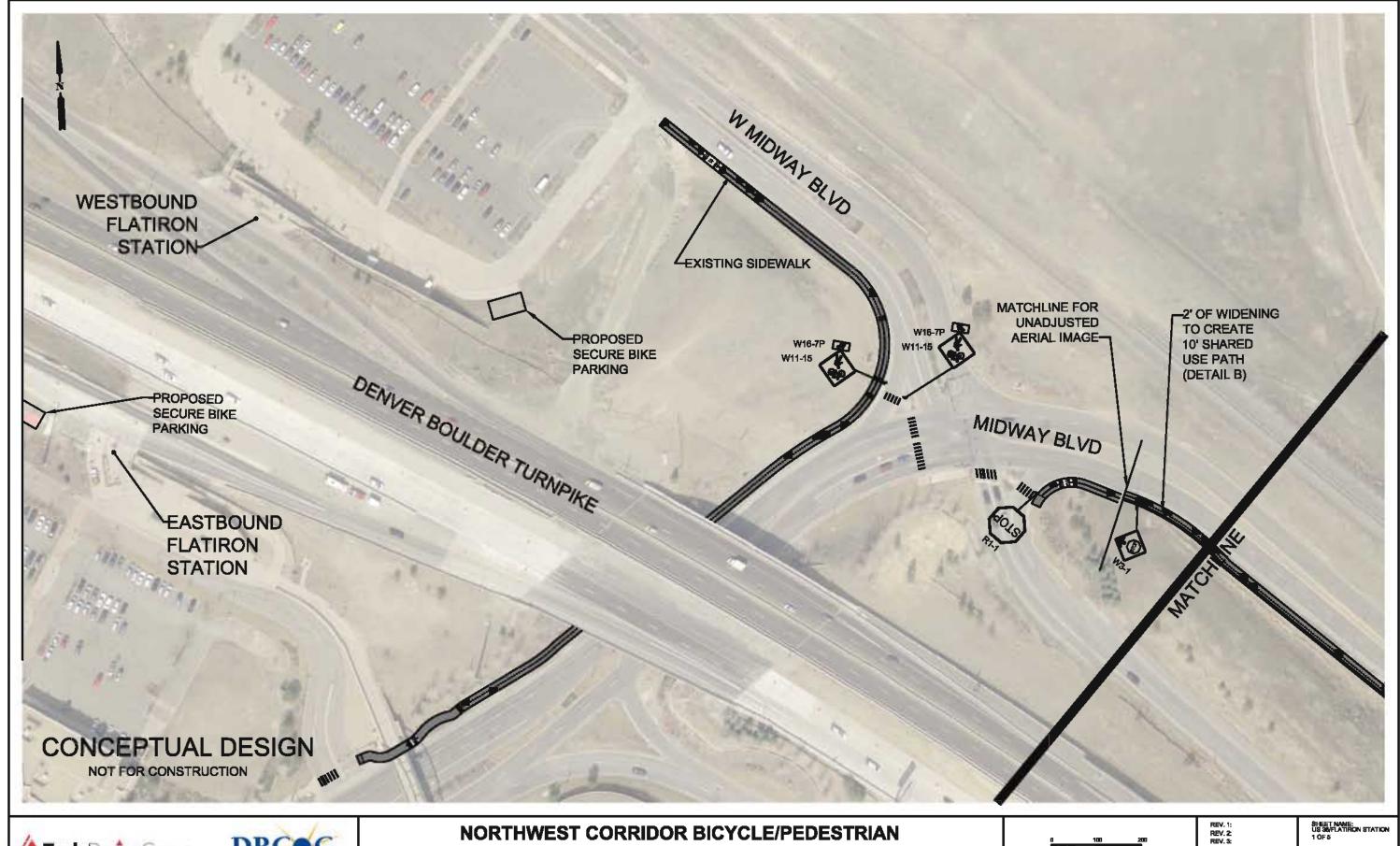
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09 of 24



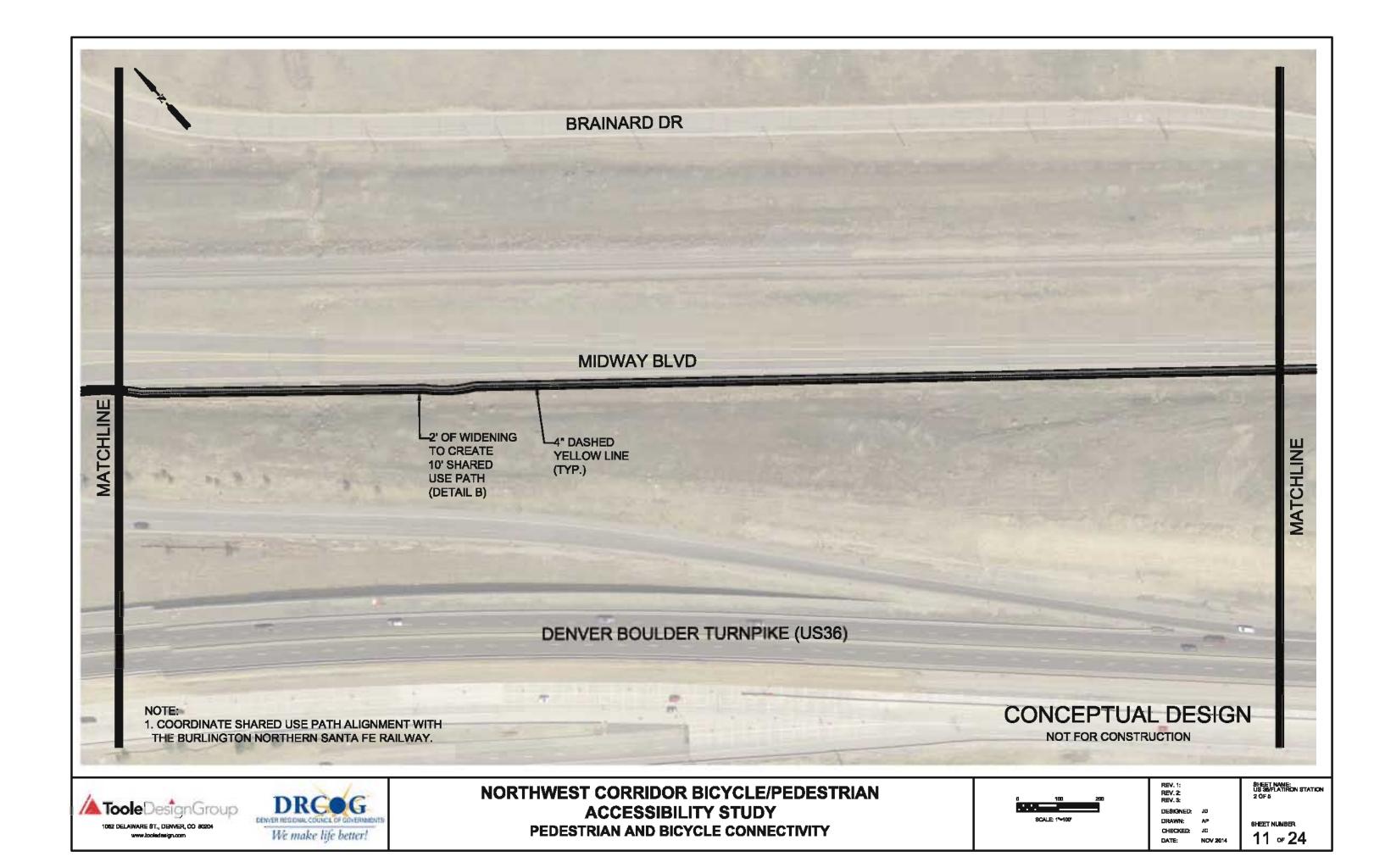


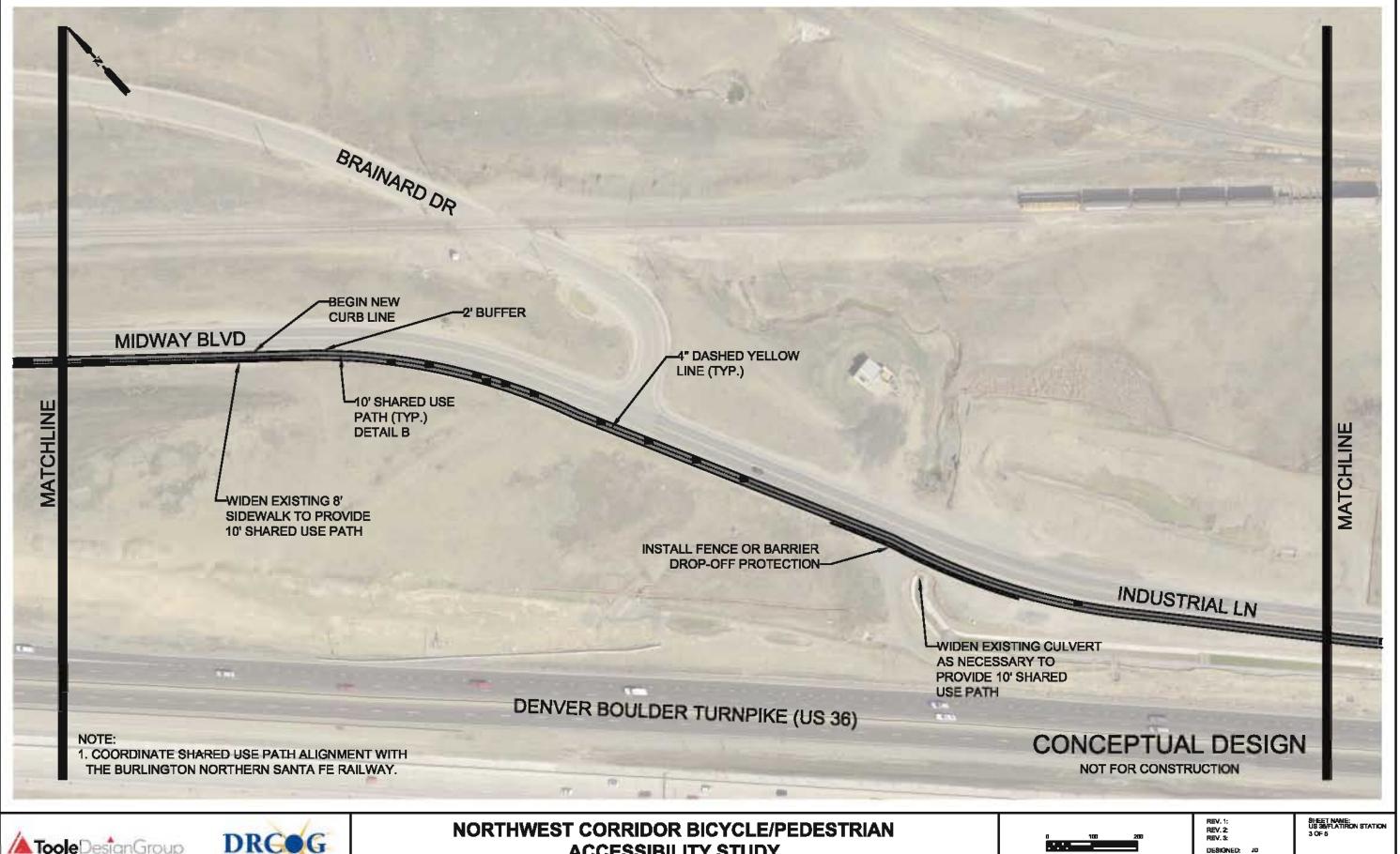




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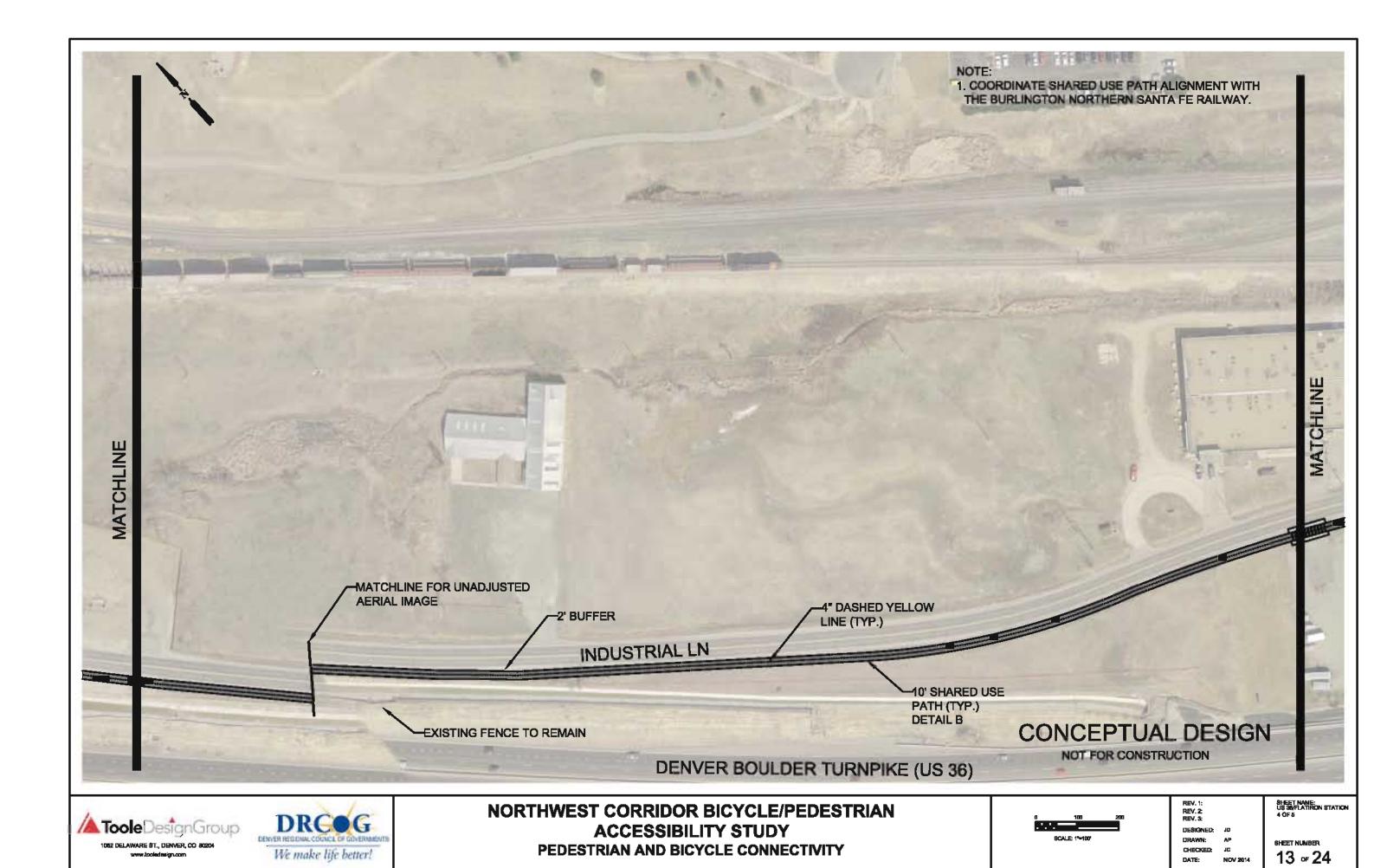
ACCESSIBILITY STUDY PEDESTRIAN AND BICYCLE CONNECTIVITY

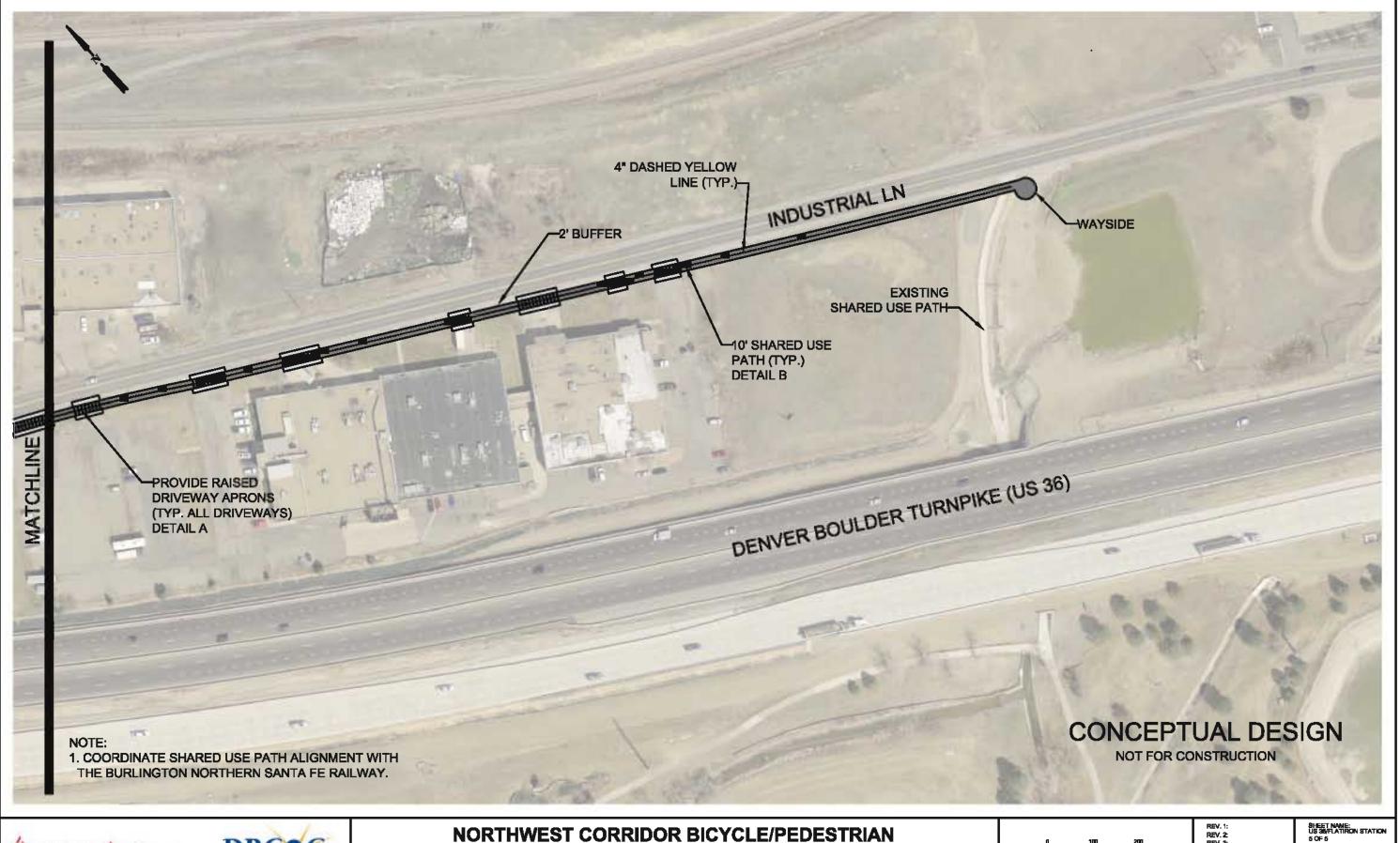


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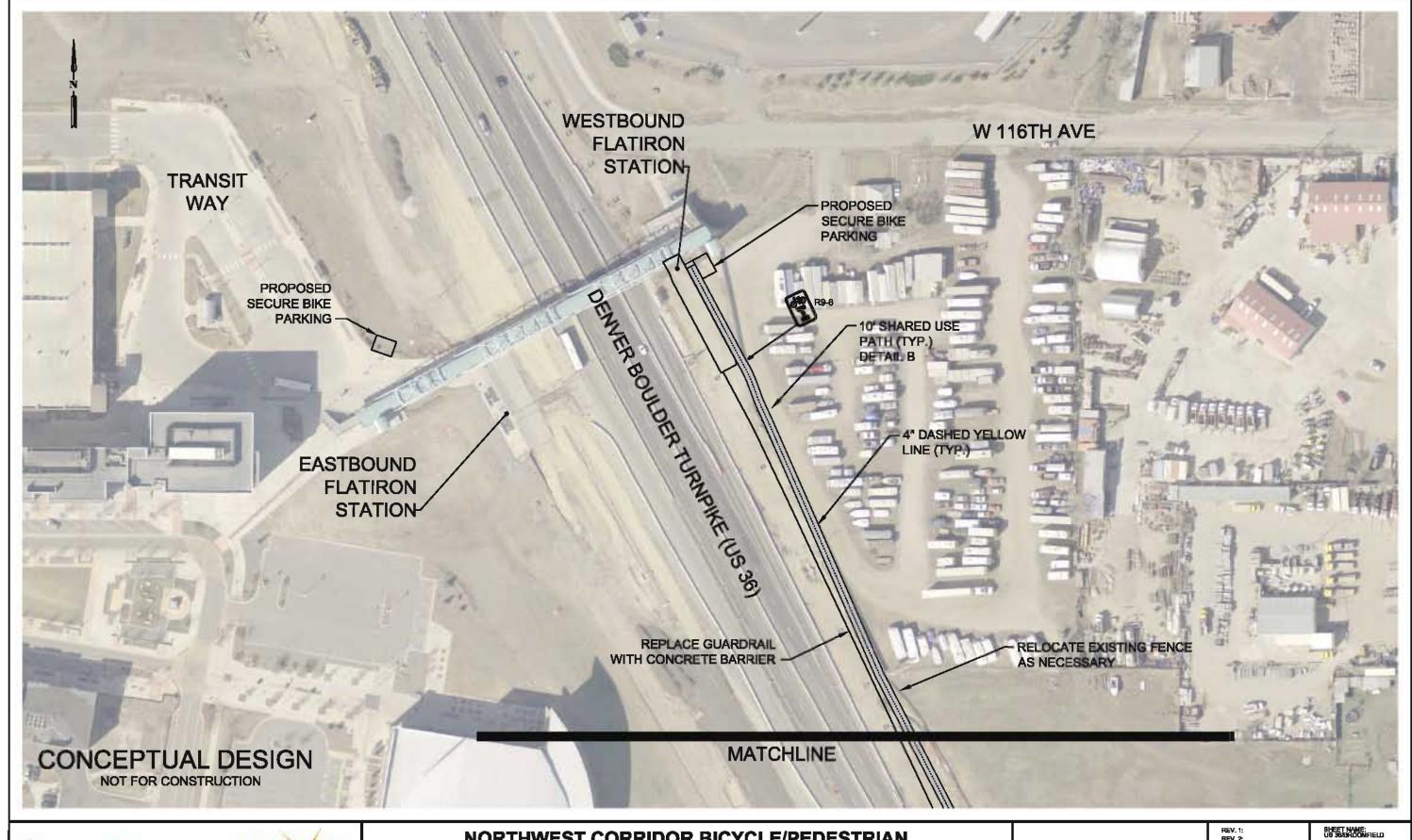




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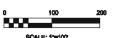
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14 of 24









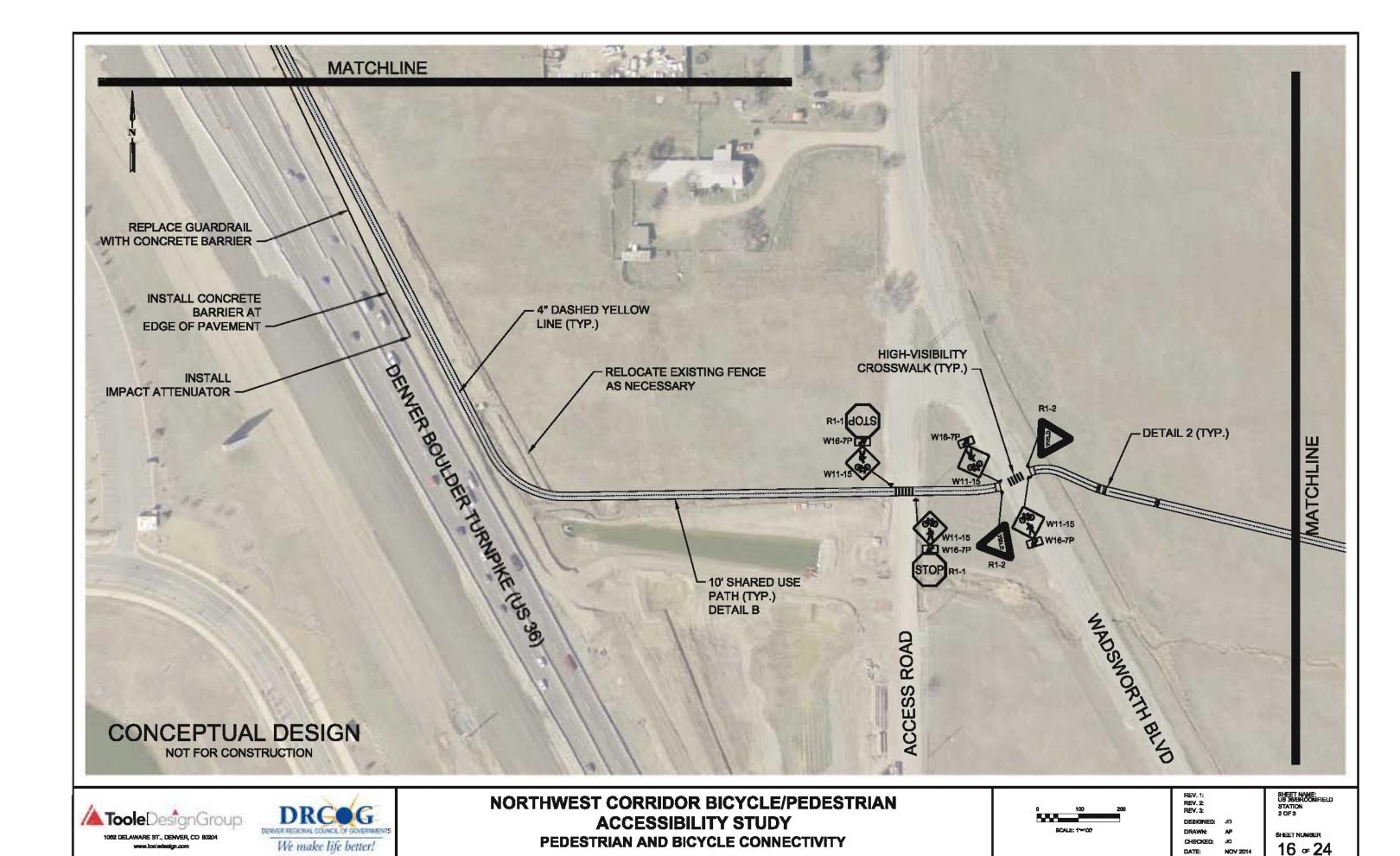
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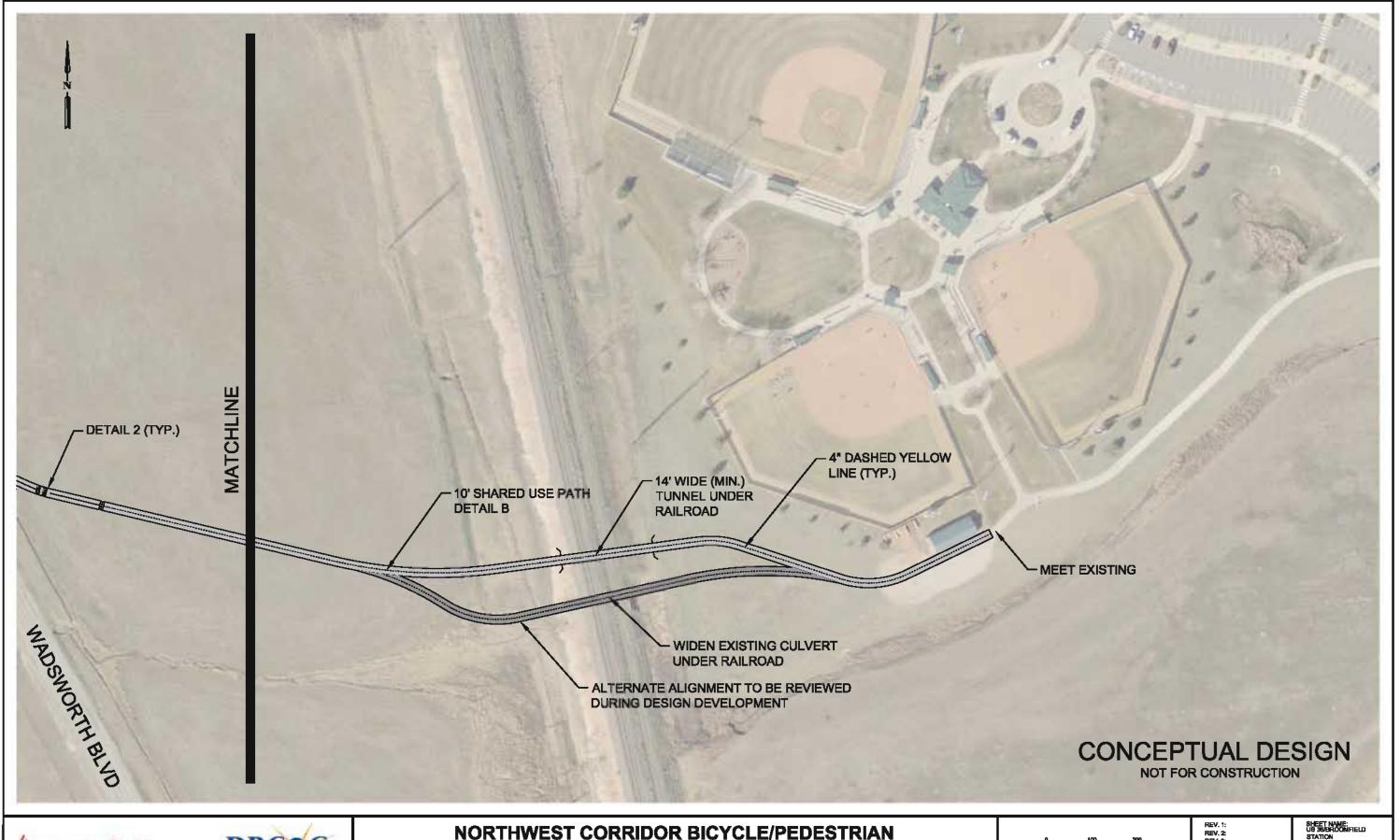
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SHEET NAME:
US SASSISTOOMFIELD
STATION
1 OF 3

SHEET NUMBER

15 of 24









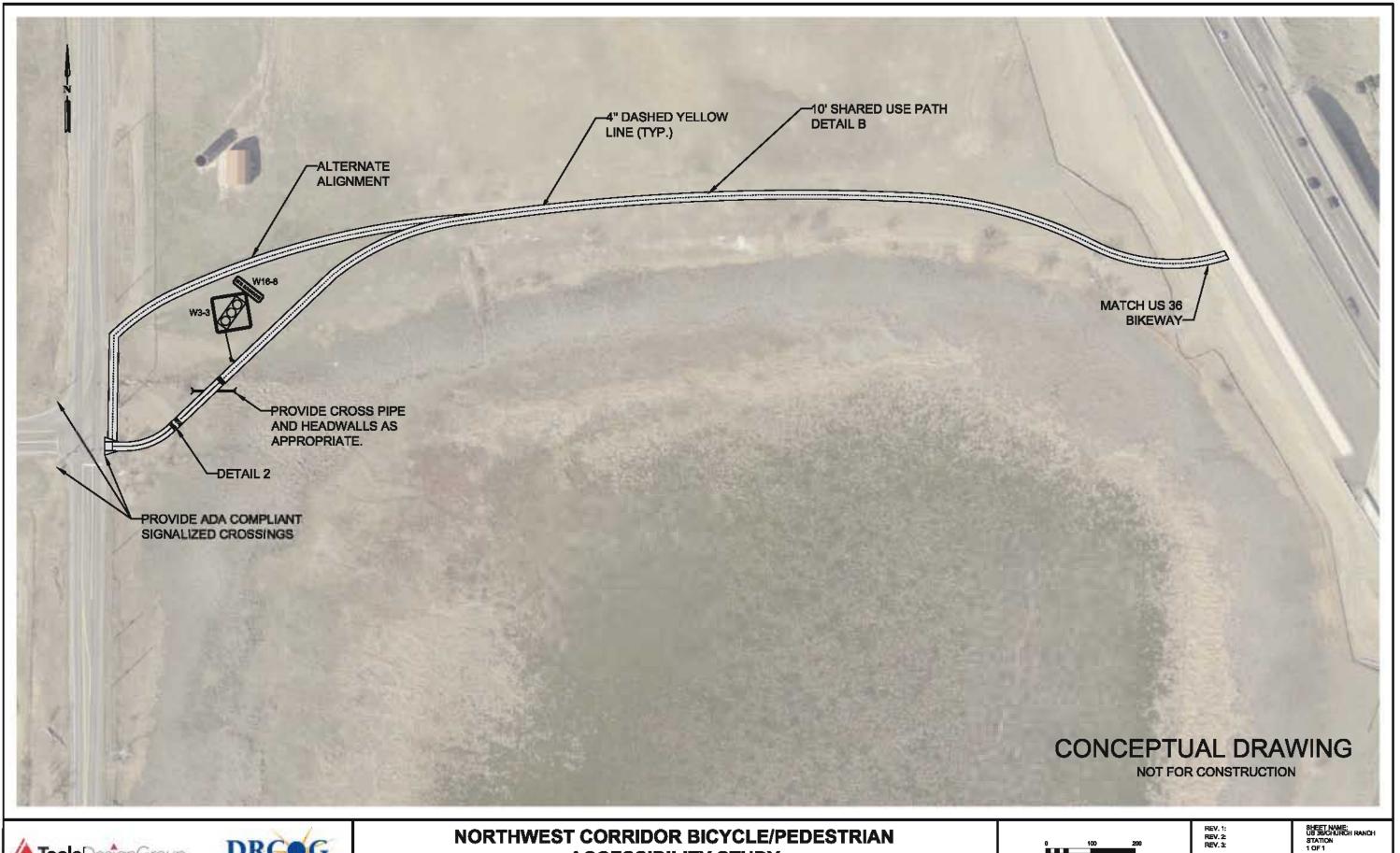


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SHEET NAME: US 35/BROOMFIELD STATION 3 OF 3

SHEET NUMBER **17 ≈ 24**







ACCESSIBILITY STUDY PEDESTRIAN AND BICYCLE CONNECTIVITY

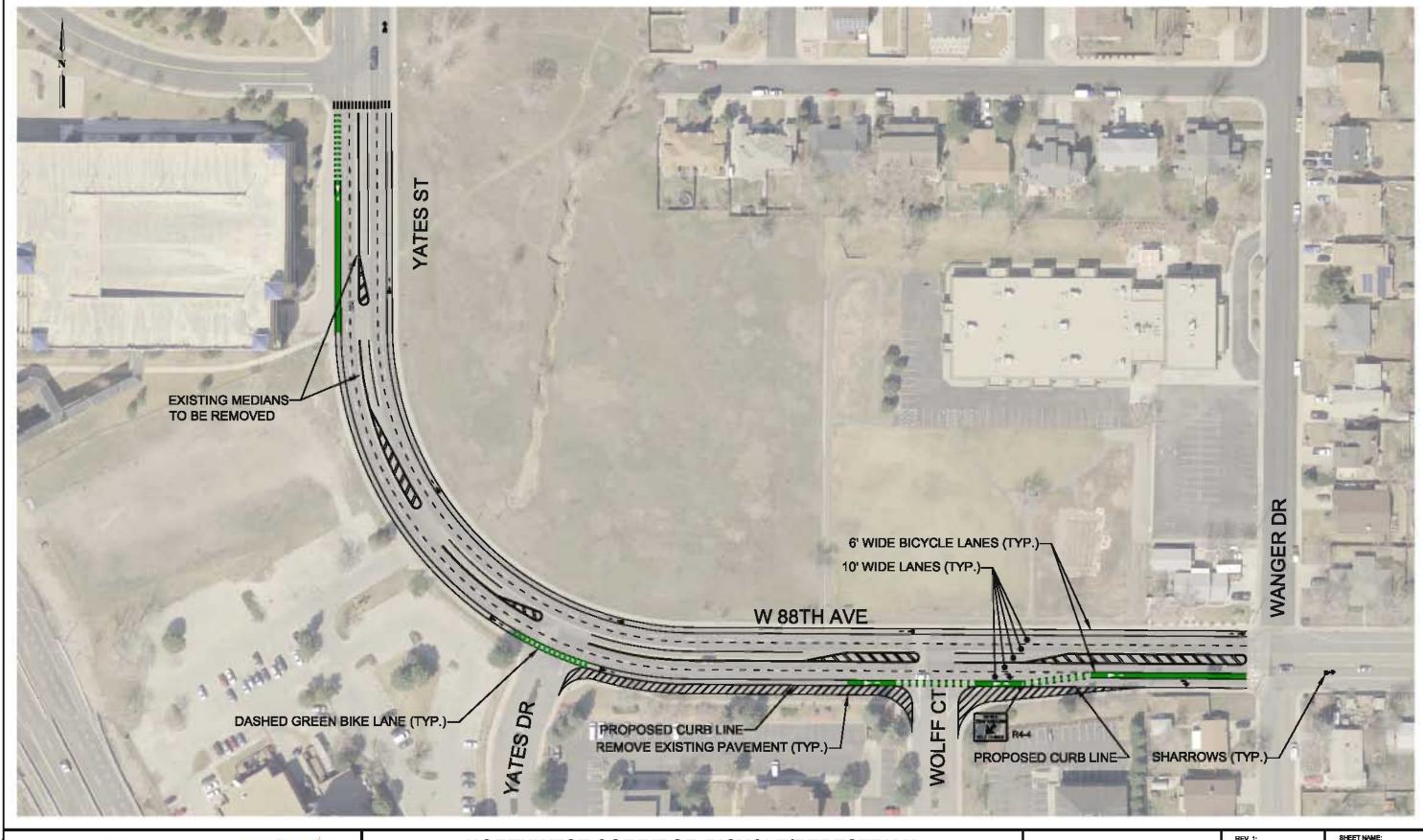


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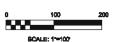
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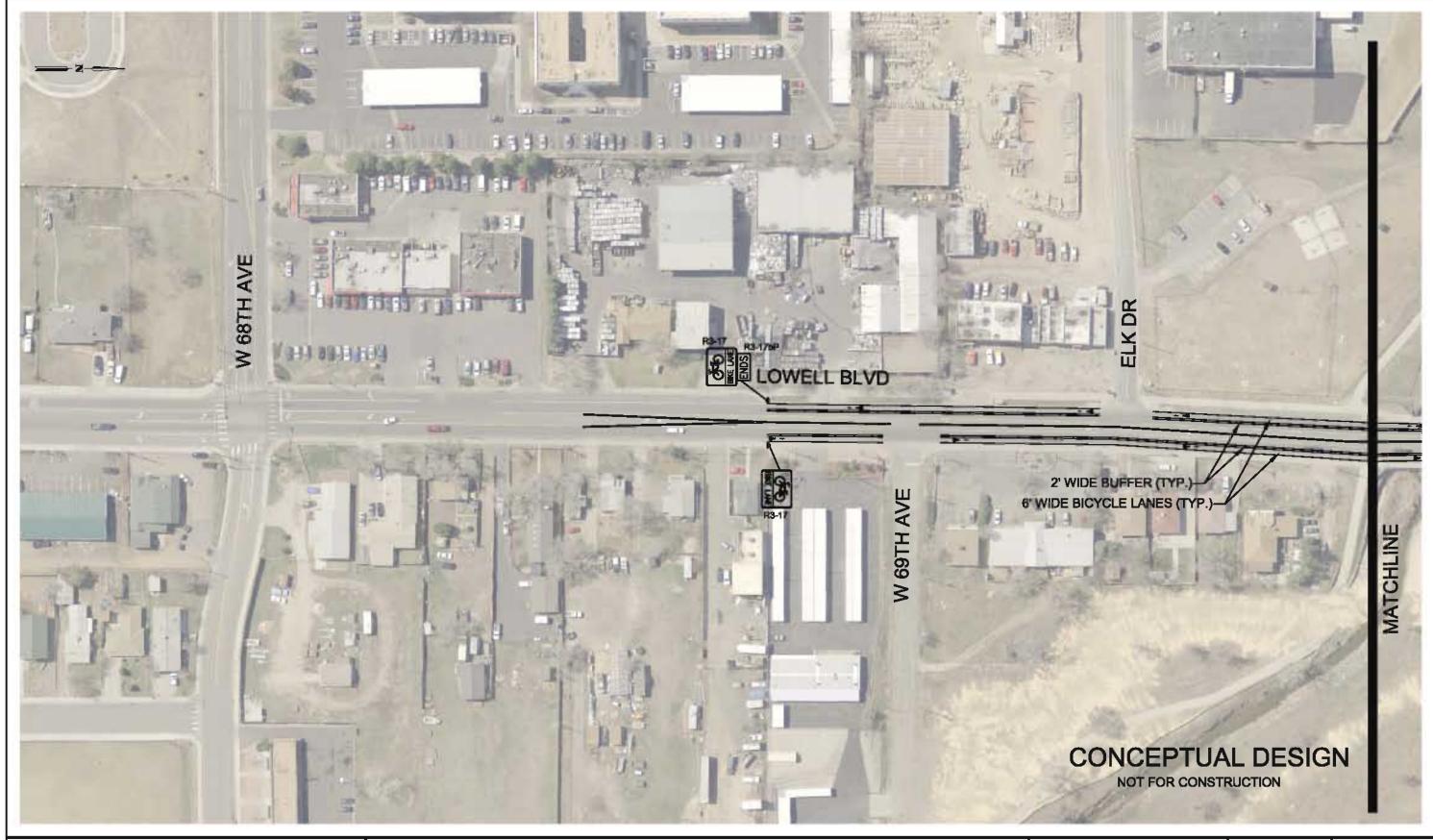


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19 24





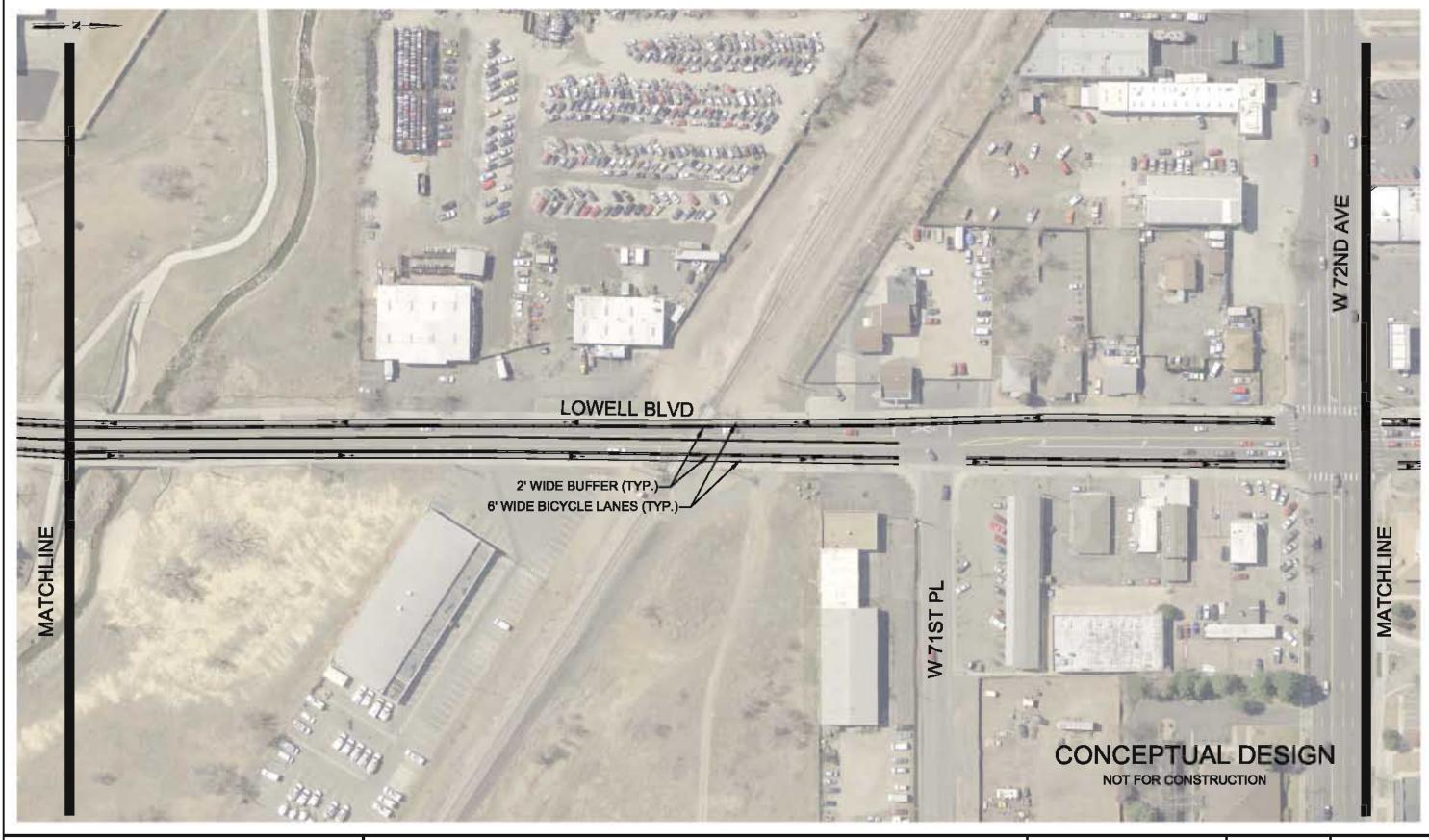




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DATE: NOV

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8HEET NUMBER 20 or 24



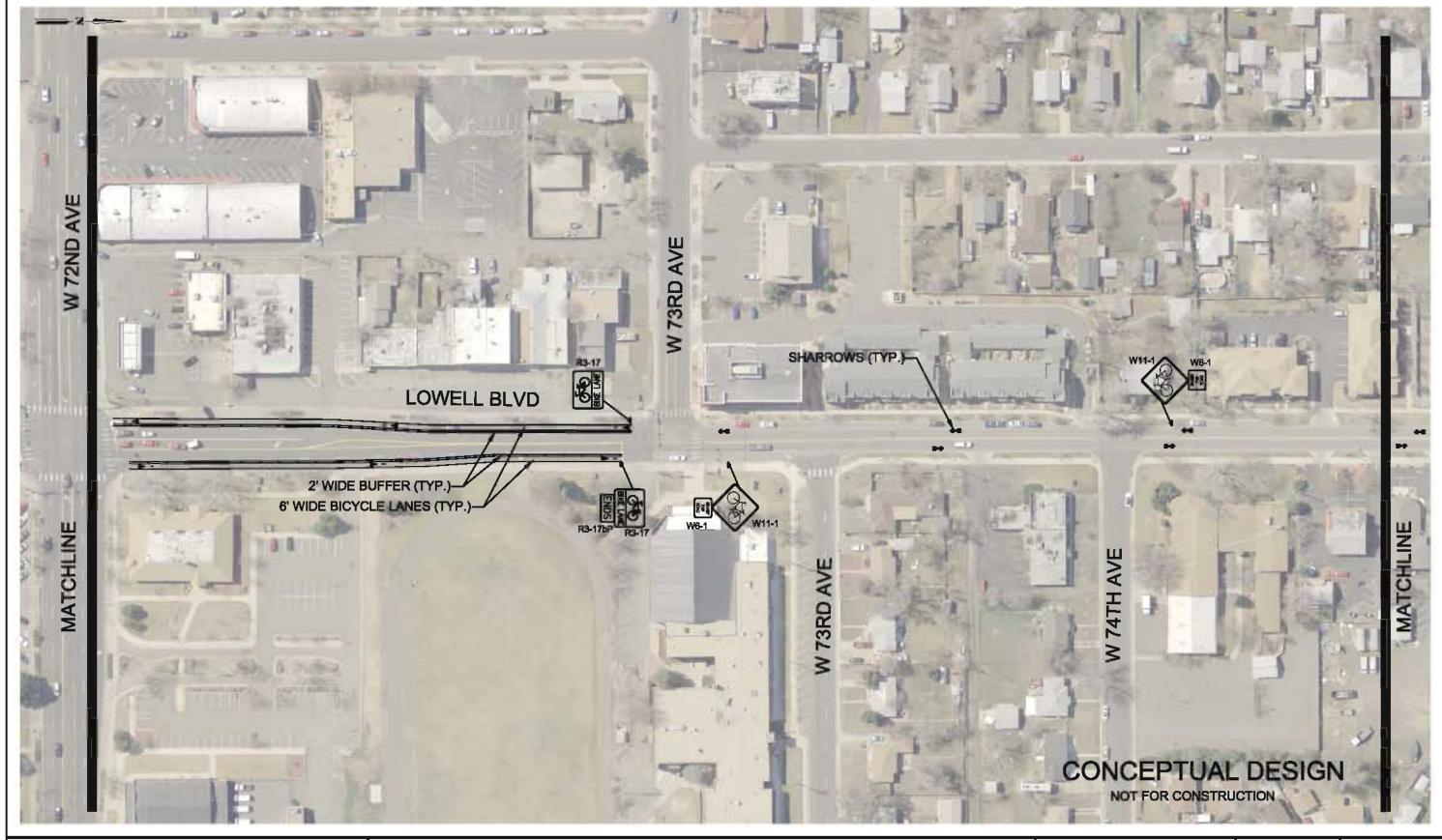






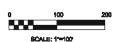
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SHEET NAME:
WESTMINSTER RAIL
STATION
2 OF 5
SHEET NUMBER
21 of 24









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SHEET NAME: WESTMINSTER RAIL STATION 3 OF 6 SHEET NUMBER

22 4





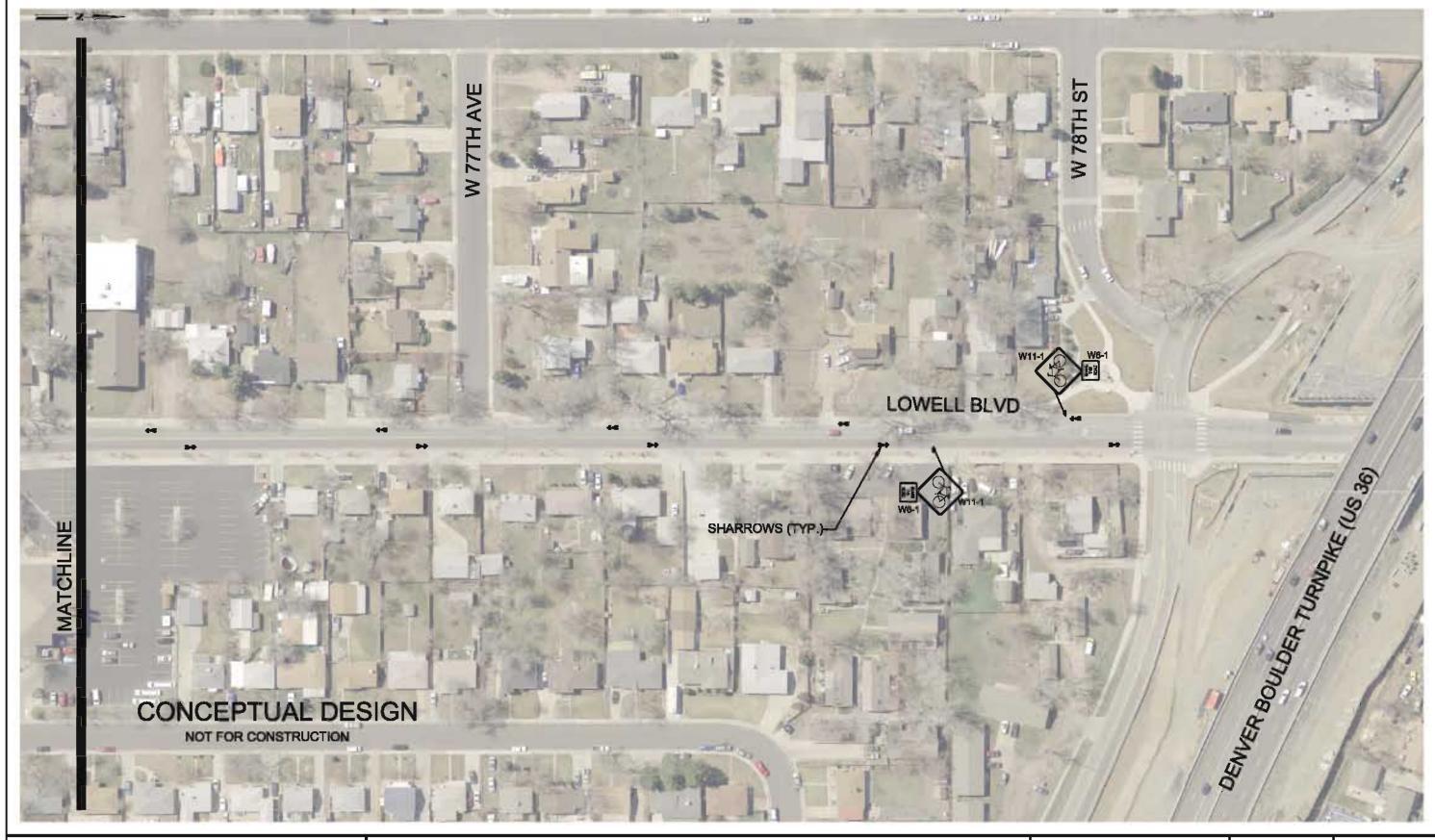




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DATE: NOV

SHEET NAME: WESTMINSTER RAIL STATION 4 OF 5 SHEET NUMBER

23 of 24









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REV. 3:
DESIGNED: JD
DRAWN: AP
CHECKED: JC
DATE: NOV

SHEET NAME:
WESTMINSTER PRAIL
STATION
8 OF 6

SHEET NUMBER
24 of 24