

# GENERAL NOTES

## PROJECT DESCRIPTION

STRIPING AND SIGNING MODIFICATIONS ON LONDONDERRY DRIVE EAST AND WEST OF TOWNER AND ON TOWNER AVENUE SOUTH OF LONDONDERRY DRIVE.

## GENERAL NOTES

- THE FOLLOWING STANDARD PLAN SHEETS ARE TO BE USED TO CONSTRUCT THIS PROJECT S-627-1, S-614-2, S-614-3, S-627-1, S-612-1.
- THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE COLORADO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2017) (REFERRED TO AS THE STANDARD SPECIFICATIONS), EXCEPT WHERE OTHERWISE NOTED ON THE PROJECT PLANS AND/OR THE PROJECT SPECIAL PROVISIONS.
- THE "PIKES PEAK REGION ASPHALT PAVING SPECIFICATIONS," VERSION 2, DATED APRIL 1, 2008 SHALL APPLY TO ASPHALT PAVING MATERIALS AND CONSTRUCTION PROCEDURES EXCEPT WHERE NOTED ON THE PROJECT PLANS AND/OR PROJECT SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL HAVE A COPY OF ALL APPLICABLE STANDARDS ON SITE FOR THE DURATION OF THE PROJECT.
- THE CONTRACTOR SHALL ACQUIRE ALL NECESSARY PERMITS AND INSPECTIONS REQUIRED TO COMPLETE THE SCOPE OF WORK PRESENTED HEREIN.
- THE ENGINEER SHALL BE NOTIFIED 48 HOURS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.

## TRAFFIC CONTROL

- ALL SIGNAGE AND STRIPING SHALL FOLLOW THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," MUTCD, CURRENT EDITION, AND ALL APPLICABLE CDOT M&S STANDARDS.
- THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN TEMPORARY TRAFFIC CONTROL DEVICES NECESSARY THROUGHOUT THE DURATION OF CONSTRUCTION IN CONFORMANCE WITH TRAFFIC CONTROL PLANS AND/OR APPROVED MHT.
- THE TRAFFIC CONTROL SUPERVISOR SHALL COORDINATE CONSTRUCTION ZONE TRAFFIC CONTROL ACTIVITIES WITH ALL APPROPRIATE OFFICIALS.
- THE CONTRACTOR SHALL MAINTAIN FULL COMPLIANCE PAVEMENT MARKINGS OR APPROVED DEVICES ON THE ROADWAYS DURING ALL PHASES OF THE CONSTRUCTION PERIOD.

## UTILITY NOTES

- UTILITY FACILITIES EXIST WITHIN THE LIMITS OF PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE AND COORDINATE WITH THE UTILITY OWNERS IN THEIR REMOVAL AND RELOCATION OPERATIONS AND DURING CONSTRUCTION SO THAT PROGRESS IS EXPEDITED.
- THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 THREE BUSINESS DAYS IN ADVANCE OF ANY EXCAVATING OR GRADING.
- THE LOCATIONS OF EXISTING STRUCTURES, PIPELINES, UTILITIES, ETC., SHOWN ON THE DRAWINGS HAVE BEEN DERIVED FROM THE BEST AVAILABLE INFORMATION. THERE MAY BE OTHER STRUCTURES, PIPELINES, UTILITIES, ETC., NOT SHOWN ON THE DRAWINGS WHICH PRESENTLY EXIST IN THE AREA OF CONSTRUCTION. THE ENGINEER AND/OR OWNER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL IMPACTED EXISTING STRUCTURES, PIPELINES, UTILITIES, ETC., IN THE PROJECT SITE, AND SHALL BE RESPONSIBLE FOR ANY DAMAGES THERETO.
- THE CONTRACTOR SHALL PROJECT AND MAINTAIN ALL UTILITIES AND STRUCTURES AFFECTED BY THE WORK AND ANY DAMAGE SHALL BE REPAIRED AND RESTORED TO THE SATISFACTION OF THE ENGINEER OR APPLICABLE ENTITY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHERE UTILITIES CONFLICT WITH THE NEW WORK IN CONFORMANCE WITH THE SPECIFICATIONS. CONFLICT IS DEFINED WHERE THE NEW WORK CANNOT BE COMPLETED WITHOUT PROPER CLEARANCES AROUND THE UTILITY. WHERE FIELD VERIFICATION IS NOTED ON THE PLANS, THIS SHALL REQUIRE THE CONTRACTOR TO DETERMINE THE LOCATION OF THE FACILITY IN QUESTION PRIOR TO THE NEW CONSTRUCTION. A DETERMINATION SHALL BE MADE BY THE CONTRACTOR IF THE CURRENT DESIGN WILL MATCH THE EXISTING FACILITY AND NOTIFY THE ENGINEER IN WRITING IF IT DOES NOT.

## SURVEY NOTES

- ALL NORTHINGS AND EASTINGS ARE SHOWN AT THE FLOWLINE UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL MONUMENTS, BENCH MARKS, PROPERTY MARKERS, AND REFERENCE POINTS. IN CASE OF HIS DESTRUCTION OF THESE, THE CONTRACTOR WILL BE RESPONSIBLE FOR RESETTING SAME, AT HIS SOLE EXPENSE, AND SHALL BE RESPONSIBLE FOR ANY LOSS OF TIME THAT MAY BE CAUSED.

## PROJECT ACTIVITY NOTES

- ALL QUANTITIES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK NECESSARY TO COMPLETE THE CONSTRUCTION SHOWN IN THESE PLANS.
- ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY EL PASO COUNTY.
- ALL WORK SHALL BE DONE TO THE LINES, GRADES, SECTIONS, AND ELEVATIONS SHOWN ON THE PLANS UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS. ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITIONS AT THE CONTRACTOR'S EXPENSE. CONSTRUCTION ACTIVITIES, IN ADDITION TO NORMAL CONSTRUCTION PROCEDURES, SHALL INCLUDE PARKING OF VEHICLES OR EQUIPMENT, DISPOSAL OF LITTER AND ANY OTHER ACTION WHICH WOULD ALTER EXISTING CONDITIONS.
- CONSTRUCTION ACTIVITY SHALL BE SCHEDULED WITH MINIMUM IMPACT TO PEDESTRIAN AND VEHICULAR TRAFFIC. ALLOWABLE WORK HOURS ARE 7:00 AM - 7:00 PM MONDAY - FRIDAY.
- LIMITS OF REMOVAL ITEMS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THEIR REMOVAL. IF DISCREPANCIES ARISE BETWEEN THE DEMOTION AND THE NEW WORK, THEN THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO DISTURBANCE.
- ALL EXCESS MATERIAL REMOVED ON THIS PROJECT SHALL BE DELIVERED TO THE EL PASO COUNTY AKERS YARD FACILITY BY THE CONTRACTOR. HAULING WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE COST OF REMOVAL. THIS INCLUDES, BUT IS NOT LIMITED TO, EXCESS EXCAVATION, ASPHALT, AND CONCRETE.
- IT WILL BE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ANY TEMPORARY EXCAVATION SUPPORT AS REQUIRED. THIS SUPPORT WILL BE INCIDENTAL TO THE WORK AND WILL NOT BE PAID FOR SEPARATELY.
- ALL EXCAVATED HOLES SHALL BE COVERED WITH STEEL PLATES ANY TIME CONSTRUCTION WORK IS NOT IN PROGRESS (OVERNIGHT, WEEKENDS, HOLIDAYS). EXCAVATION SHORTING SHALL COMPLY WITH OSHA STANDARDS. COST FOR SHORING AND STEEL PLATES WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.
- THE TYPE OF EARTHWORK COMPACTION FOR THIS PROJECT WILL BE AASHTO T-99 COMPACTED TO 95% MAXIMUM DRY DENSITY.
- PAVEMENT MARKINGS SHALL BE REMOVED FROM THE PAVEMENT TO THE MAXIMUM EXTENT POSSIBLE, BY METHODS THAT DO NOT MATERIALLY ALTER OR DAMAGE THE SURFACE OR TEXTURE OF THE PAVEMENT.
- ALL EXISTING EDGE LINES, CENTERLINES, LANE LINES, AND STOP BARS THAT ARE NOT SCHEDULED TO BE REMOVED SHALL BE REFRESHED. THIS SHALL APPLY TO ALL TRAFFIC MARKINGS THROUGHOUT THE INTERSECTION AREA.

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## ASPHALT PATCHING NOTES

- HOT MIX ASPHALT IS REQUIRED FOR ALL PERMANENT ASPHALT PATCH REPAIRS AND SHALL BE PLACED IMMEDIATELY FOLLOWING CONSTRUCTION.
- HOT MIX ASPHALT SHALL MEET AND BE PLACED ACCORDING TO THE REQUIREMENTS OF THE "PIKES PEAK REGIONAL ASPHALT SPECIFICATIONS."
- HMA SHALL BE AN SX GRADE. THE CONTRACTOR SHALL SUBMIT A MIX DESIGN FOR APPROVAL BY THE ENGINEER.
- THE DEPTH OF THE ASPHALT PATCH SHALL MATCH THE EXISTING PAVEMENT THICKNESS OR 4 INCHES MINIMUM, WHICHEVER IS GREATER. THE ASPHALT SHALL BE COMPACTED IN LIFTS OF NO MORE THAN 3 INCHES THICK. THE TOP COURSE SHALL BE 2 INCHES.
- WHERE ASPHALT REMOVAL EXTENDS INTO THE BASE COURSE, THE CONTRACTOR SHALL PROVIDE A COMPACTED GRANULAR FILL MEETING THE SPECIFICATIONS OF CDOT'S CLASS 6 AGGREGATE BASE COURSE.
- WHERE NEW PAVEMENT IS TO ABUT TO EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE REMOVED TO A NEAT VERTICAL LINE BY FULL DEPTH SAWING. SAWING WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE PROJECT.
- DILUTED EMULSIFIED ASPHALT SHALL BE APPLIED TO THE EDGE OF CUT PAVEMENT PRIOR TO PAVING OPERATIONS AND SHALL BE APPLIED BETWEEN PAVEMENT COURSES TO IMPROVE THE BOND. THE DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF ONE PART EMULSIFIED ASPHALT AND ONE PART WATER. THE DILUTED RATE OF APPLICATION SHALL BE 0.10 GALS/SY. TACK COAT WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST FOR PATCHING.
- A TEMPORARY COLD MIX PATCH WILL BE REQUIRED FOR ALL STREET CUTS IF A PERMANENT PATCH CANNOT BE APPLIED FOR ANY REASON IMMEDIATELY FOLLOWING CONSTRUCTION. TEMPORARY PATCHES SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL COMPLETION OF THE PERMANENT PATCH WITHIN A MAXIMUM OF 14 CALENDAR DAYS.

## STORMWATER/BMP NOTES

- NO WASHING OUT OF CONCRETE TRUCKS INTO STORM DRAINS OR STREETS SHALL BE ALLOWED.
- IF CONCRETE TRUCKS ARE TO BE WASHED ON SITE, A TEMPORARY CONCRETE WASHOUT FACILITY SHALL BE CONSTRUCTED AND MAINTAINED WITH SUFFICIENT SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. CONCRETE WASHOUT AREAS SHALL BE LOCATED AT LEAST 50 FEET FROM STORM DRAINS.
- TRACKING OF SOILS AND CONSTRUCTION DEBRIS FROM THE PROJECT SITE SHALL BE MINIMIZED. MATERIALS TRACKED ONTO THE ROADWAY SHALL BE CLEANED UP DAILY AND DISPOSED OF PROPERLY. THE WORK SHALL BE INCLUDED IN THE COST OF THE WORK.



## VICINITY

### List of agencies (stakeholder) with addresses & points of contact

Owner/Developer: School District 49  
Traffic Engineer: LSC Transportation Consultants, Inc., 545 E. Pikes Peak Ave., Suite 210 Colorado Springs, CO 80903, Jeff Hodsdon, 719-633-2898  
Civil Engineer: JPS Engineering; John Schwab, P.E.  
El Paso County Engineering: EPC Public Services, 3275 Akers Drive, Colorado Springs, CO 80922, [Jennifer Irvine, County Engineer]  
CDOT: Valerie Sword, Access Manager, 905 N Erie Avenue, PO Box 536 Pueblo, CO 81002; 719-546-5407.  
Fire District or Department: Falcon Fire District  
Utility Company (Electric): Mountain View Electric, Jim Kennel, 11140 E. Woodmen Road Falcon, CO 80831, 719-495-2283  
Utility Company (Telephone):  
Utility Company (Gas):  
Utility Company (Water):  
Utility Company (Cable):

### Design Engineer's Stamp and Signature:



Jeffrey C. Hodsdon, P.E. #31684

Date

### Owner/Developer's Statement:

I, the owner/developer have read and will comply with all of the requirements specified in these detailed plans and specifications.

Title: Business Name:

Date

### El Paso County:

County plan review is provided only for general conformance with County Design Criteria. The County is not responsible for the accuracy and adequacy of the design, dimensions, and/or elevations which shall be confirmed at the job site. The County through the approval of this document assumes no responsibility for completeness and/or accuracy of this document.

Filed in accordance with the requirements of the El Paso County Land Development Code, Drainage Criteria Manual, Volumes 1 and 2, and Engineering Criteria Manual as amended.

Jennifer Irvine, P.E.

Date

County Engineer / ECM Administrator

## VICINITY MAP & GENERAL NOTES Londonderry Dr. and Towner Ave. Signing and Striping Modifications Plan



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Project Manager  
JEFFREY C. HODSDON, P.E., PTOE

REVISIONS	DATE
REVISIONS 1	5/30/17
REVISIONS 2	5/03/18
REVISIONS 3	6/11/18

DATE:	5-3-18
SCALE:	NTS
DRAWN BY:	MR
JOB NO.:	174040
DWG:	205340HZ (LSC)R2 JCH 6

SHT NO. : **1**  
OF **6**



# GENERAL NOTES (CONT.)

Signing and Striping Notes:

1. All signs and pavement markings shall be in compliance with the current Manual on Uniform Traffic Control Devices (MUTCD).
2. Removal of existing pavement markings shall be accomplished by a method that does not materially damage the pavement. The pavement markings shall be removed to the extent that they will not be visible under day or night conditions. At no time will it be acceptable to paint over existing pavement markings.
3. Any deviation from the striping and signing plan shall be approved by El Paso Planning and Community Development Department.
4. All signs shown on the signing and striping plan shall be new signs. Existing signs may remain or be reused if they meet current El Paso County and MUTCD standards.
5. Street name and regulatory stop signs shall be on the same post at intersections.
6. All removed signs shall be disposed of in a proper manner by the contractor.
7. All street name signs shall have "D" series letters, with local roadway signs being 4" upper-lower case lettering on 8" blank and non-local roadway signs being 6" lettering, upper-lower case on 12" blank, with a white border that is not recessed. Multi-lane roadways with speed limits of 40 mph or higher shall have 8" upper-lower case lettering on 18" blank with a white border that is not recessed. The width of the non-recessed white borders shall match page 255 of the 2012 MUTCD "Standard Highway Signs"
8. Ground-mount signs shall have retroreflective sheeting background material of type of ASTM 4956 Type IV.
9. All local residential street signs shall be mounted on a 1.75" x 1.75" square tube sign post and stub post base. For other applications, refer to the CDOT Standard S-614-8 regarding use of the P2 tubular steel post slipbase design.
10. All signs shall be single sheet aluminum with 0.100" minimum thickness.
11. All limit lines/stop lines, crosswalk lines, pavement legends, and arrows shall be a minimum 125 mil thickness preformed thermoplastic pavement markings with approach edge tapering per CDOT Standard S-627-1. Arrow pavement markings shall be the optional MUTCD narrow elongated design. Stop bars shall be 24" in width. Continental crosswalk line shall be 12 inches wide and at least 8 foot long, per CDOT S-627-1.
12. Longitudinal line pavement markings shall be in conformance with CDOT Standard Specifications Section 627 Pavement Marking and CDOT Standard Plan, S-627-1 Pavement Markings.
13. The contractor shall notify El Paso Planning and Community Development Department (PCD) (719) 520-6819 prior to and upon completion of signing and striping.
14. The contractor shall obtain a work in the right of way permit from the El Paso County Department of Public Works (DPW) prior to any signage or striping work within an existing El Paso County roadway.

Standard Notes for El Paso County Construction Plans

1. All drainage and roadway construction shall meet the standards and specifications of the City of Colorado Springs/El Paso County Drainage Criteria Manual, Volumes 1 and 2, and the El Paso County Engineering Criteria Manual.
2. Contractor shall be responsible for the notification and field notification of all existing utilities, whether shown on the plans or not, before beginning construction. Location of existing utilities shall be verified by the contractor prior to construction. Call 811 to contact the Utility Notification Center of Colorado (UNCC).
3. Contractor shall keep a copy of these approved plans, the Grading and Erosion Control Plan, the Stormwater Management Plan (SWMP), the soils and geotechnical report, and the appropriate design and construction standards and specifications at the job site at all times, including the following:
  - a. El Paso County Engineering Criteria Manual (ECM)
  - b. City of Colorado Springs/El Paso County Drainage Criteria Manual, Volumes 1 and 2
  - c. Colorado Department of Transportation (CDOT) Standard Specifications for Road and Bridge Construction
  - d. CDOT M & S Standards
4. Notwithstanding anything depicted in these plans in words or graphic representation, all design and construction related to roads, storm drainage and erosion control shall conform to the standards and requirements of the most recent version of the relevant adopted El Paso County standards, including the Land Development Code, the Engineering Criteria Manual, the Drainage Criteria Manual, and the Drainage Criteria Manual Volume 2. Any deviations from regulations and standards must be requested, and approved, in writing. Any modifications necessary to meet criteria after-the-fact will be entirely the developer's responsibility to rectify.
5. It is the design engineer's responsibility to accurately show existing conditions, both onsite and offsite, on the construction plans. Any modifications necessary due to conflicts, omissions, or changed conditions will be entirely the developer's responsibility to rectify.
6. Contractor shall schedule a pre-construction meeting with El Paso County Planning and Community Development Department (PCD) - Inspections, prior to starting construction.
7. It is the contractor's responsibility to understand the requirements of all jurisdictional agencies and to obtain all required permits, including but not limited to El Paso County Erosion and Stormwater Quality Control Permit (ESQCP), Regional Building Floodplain Development Permit, U.S. Army Corps of Engineers-issued 401 and/or 404 permits, and county and state fugitive dust permits.
8. Contractor shall not deviate from the plans without first obtaining written approval from the design engineer and PCD. Contractor shall notify the design engineer immediately upon discovery of any errors or inconsistencies.
9. All storm drain pipe shall be Class III RCP unless otherwise noted and approved by PCD.
10. Contractor shall coordinate geotechnical testing per ECM standards. Pavement design shall be approved by El Paso County PCD prior to placement of curb and gutter and pavement.
11. All construction traffic must enter/exit the site at approved construction access points.
12. Sight visibility triangles as identified in the plans shall be provided at all intersections. Obstructions greater than 18 inches above flowline are not allowed within sight triangles.
13. Signing and striping shall comply with El Paso County DOT and MUTCD criteria. [If applicable, additional signing and striping notes will be provided.]
14. Contractor shall obtain any permits required by El Paso County DOT, including Work Within the Right-of-Way and Special Transport permits.
15. The limits of construction shall remain within the property line unless otherwise noted. The owner/developer shall obtain written permission and easements, where required, from adjoining property owner(s) prior to any off-site disturbance, grading, or construction.

GENERAL NOTES (CONTINUED)  
Londonderry Dr. and Towner Ave.  
Signing and Striping Modifications Plan



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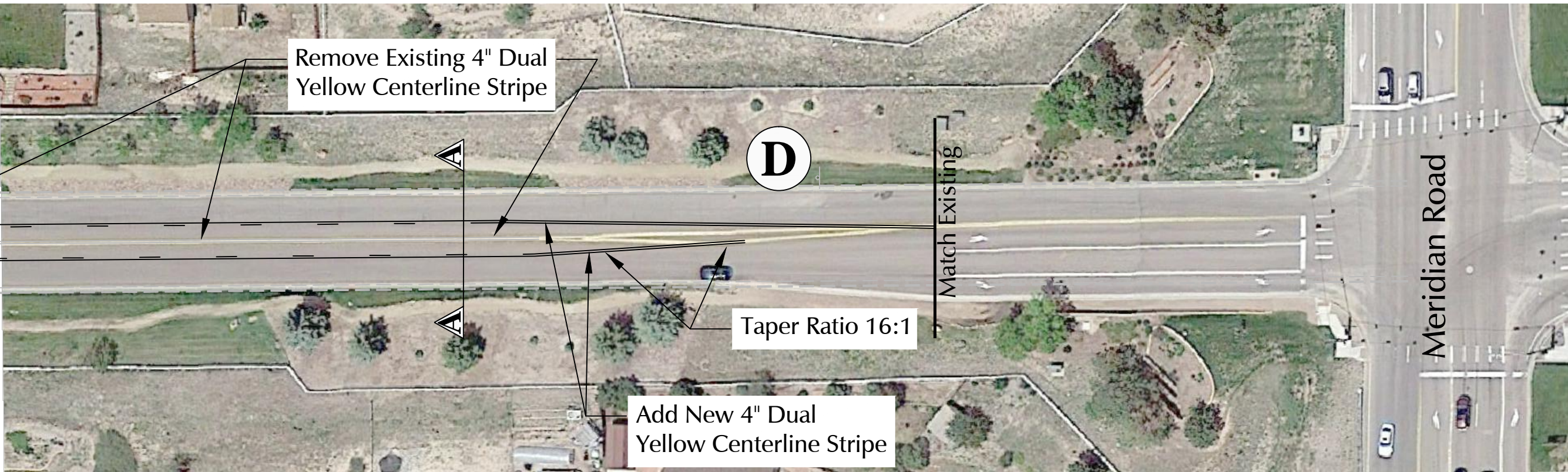
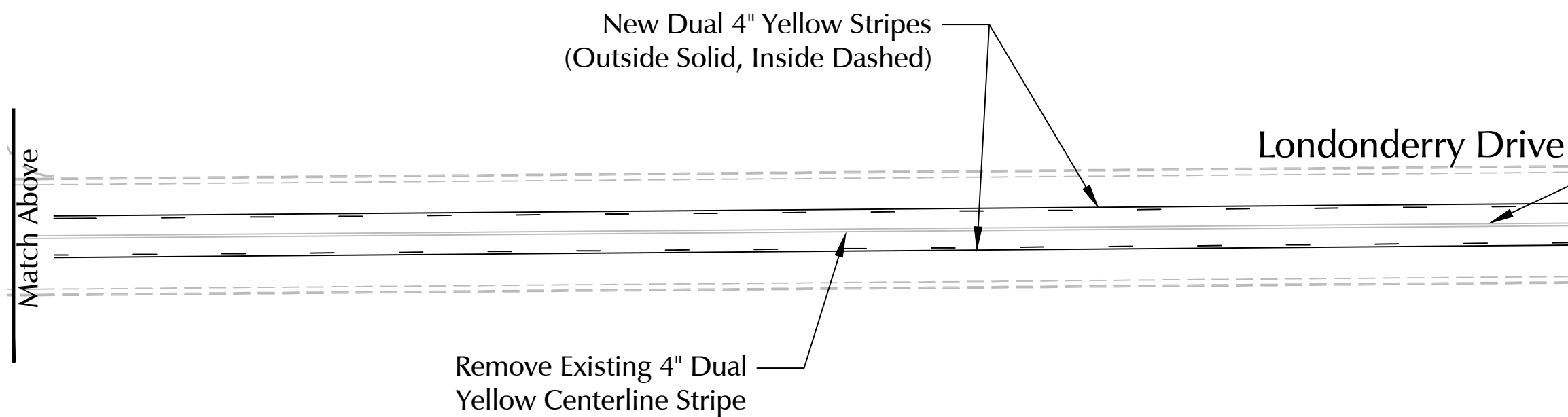
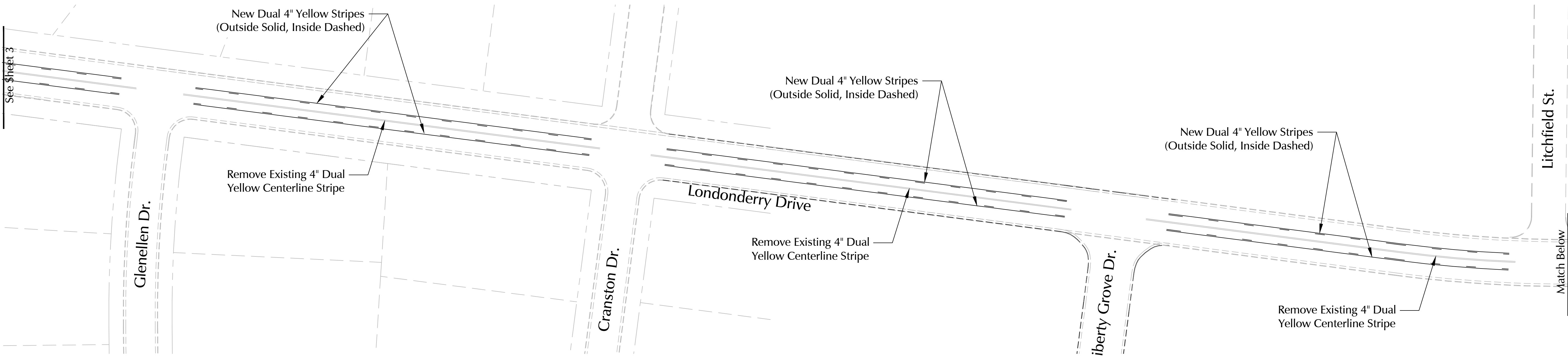
Project Manager  
JEFFREY C. HOUSDON, PE, PTOE

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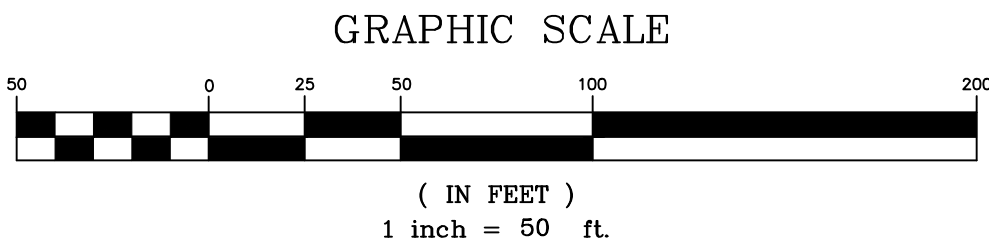
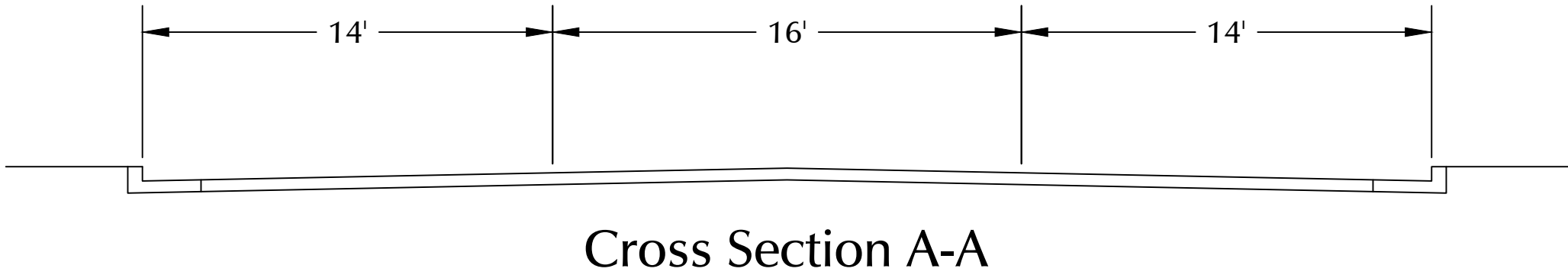
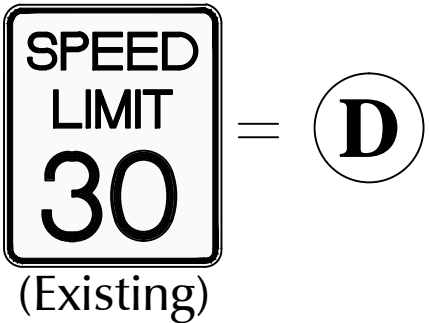
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OF 6







LEGEND:



# STRIPING AND SIGNING PLAN

## Londonderry Dr. and Towner Ave.

### Striping and Striping Modifications Plan

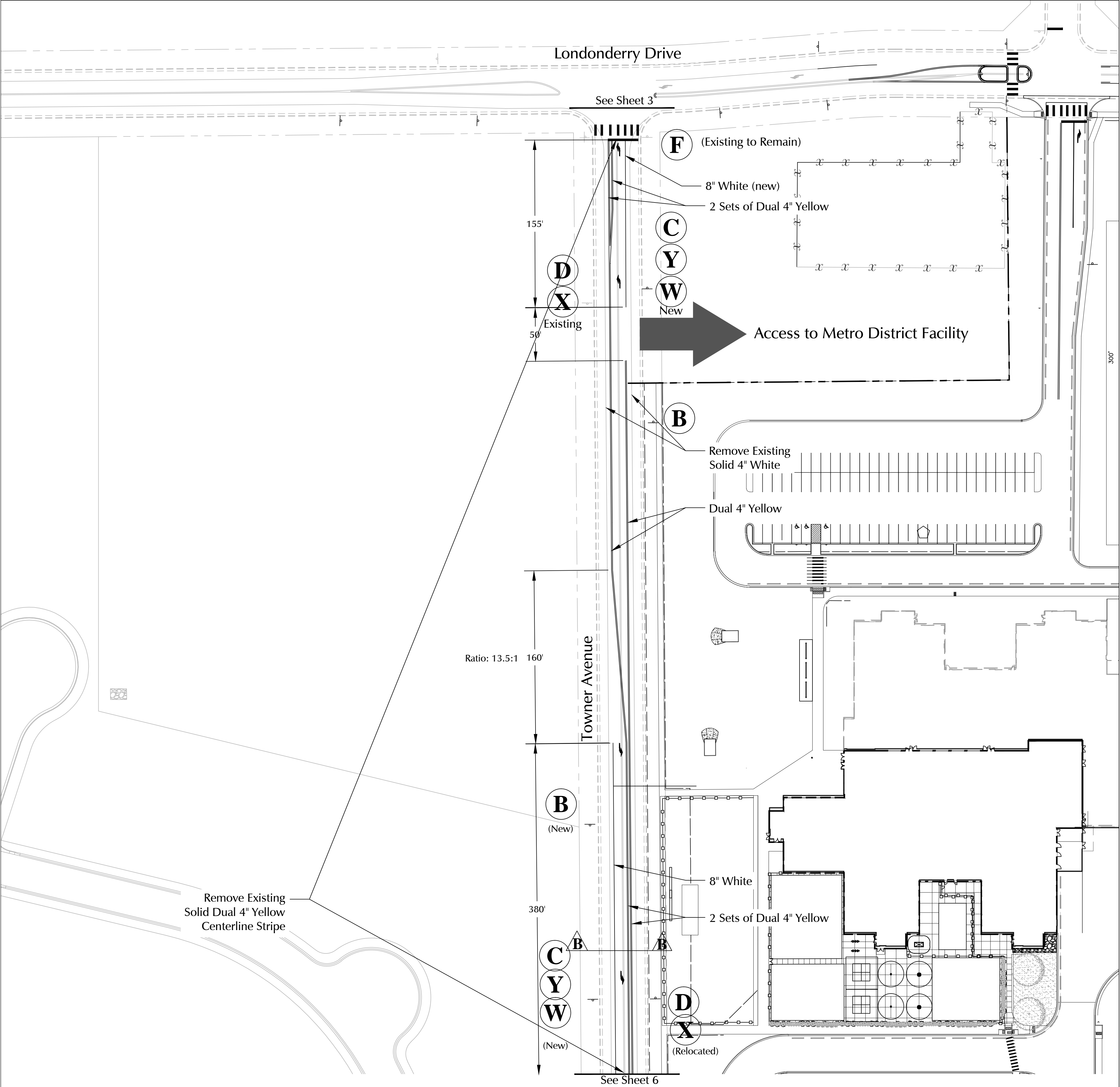
LSC  
TRANSPORTATION  
CONSULTANTS  
565 E. Pike Ave., Suite 210, Colorado Springs, CO 80903  
TELEPHONE: 719.633.2868 FAX: 719.633.5430  
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DATE:	5-3-18
SCALE:	1:50
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SHT NO. :4  
OF 6





LEGEND:

S1-1  
36"x36"

= (B)

S4-3P  
24"x8"

= (B)

R2-1  
24"x30"

= (D)

S5-2  
24"x30"

= (X)

R2-1  
24"x30"

= (C)

S4-1P  
24"x10"

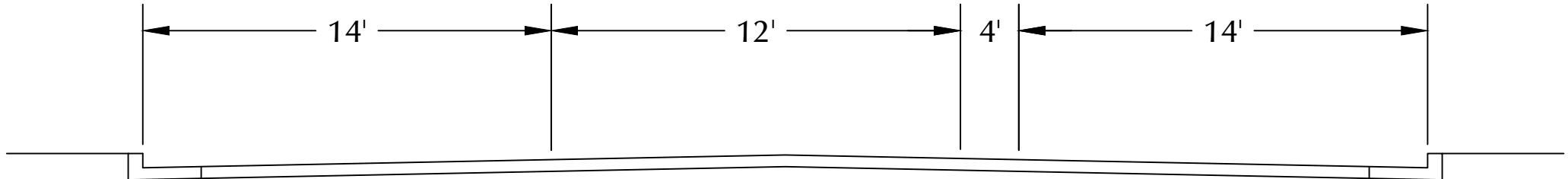
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R2-6aP  
24"x10"

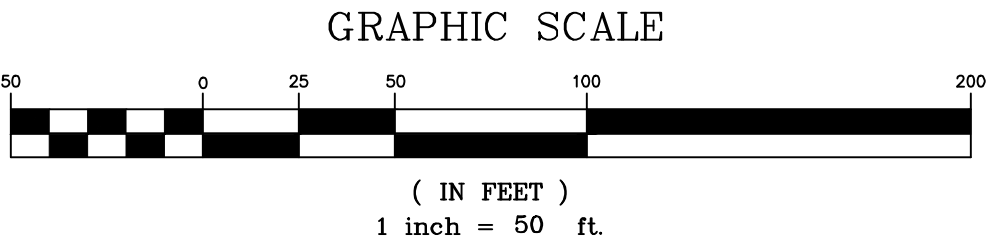
= (W)

R1-1  
30"x30"

= (F)



Cross Section B-B



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REVISIONS 1	6/1/18
DATE: 5-3-18	
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Project Manager  
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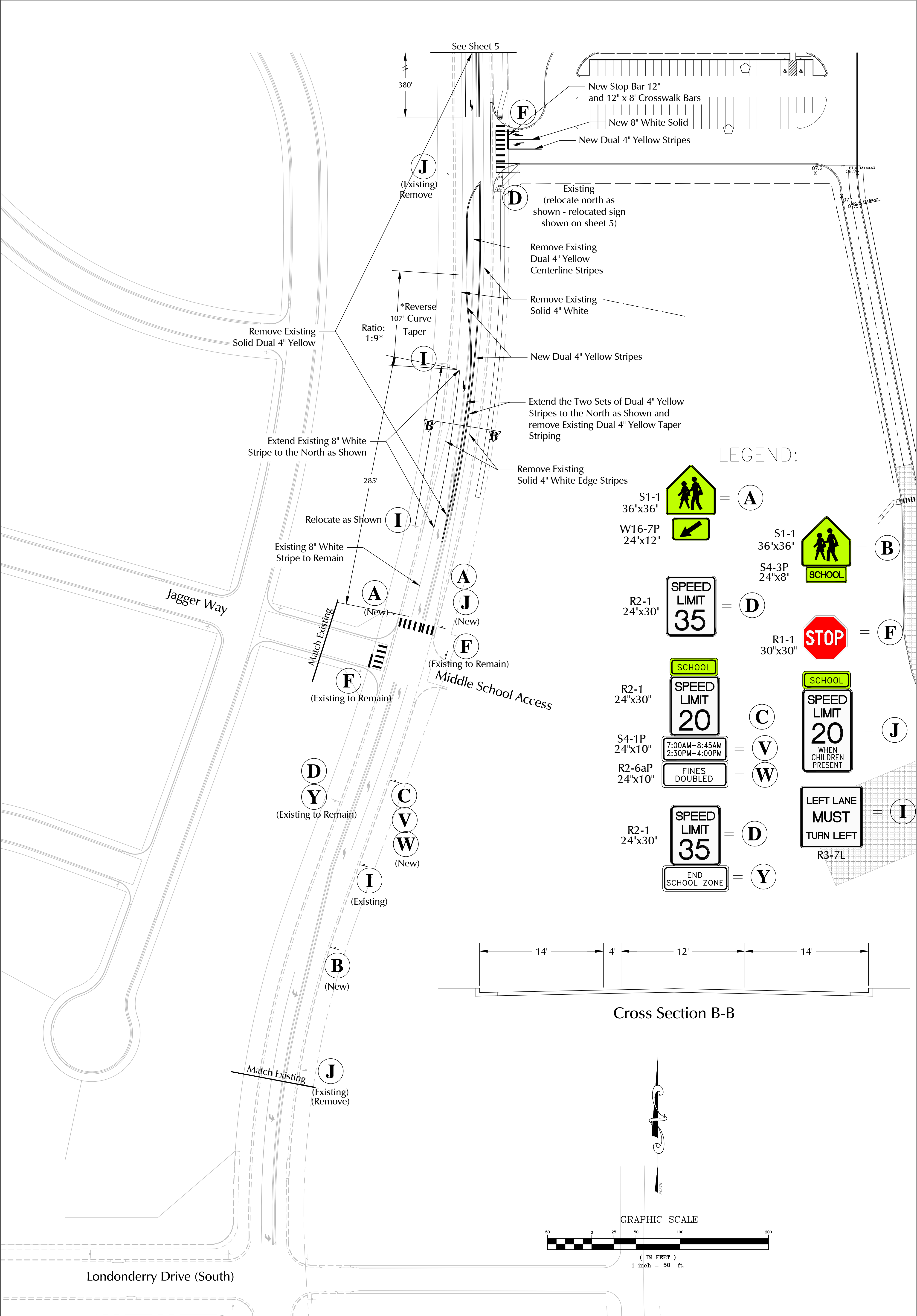
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## STRIPING AND SIGNING PLAN

### Londonderry Dr. and Towner Ave.

### Signing and Striping Modifications Plan





Project Manager  
JEFFREY C. HODSDON, PE, PTOE

REVISIONS

REVISIONS	DATE
1	6/1/18

DATE:

5-3-18

SCALE:

1"=50'

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MR

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174640

DWG:

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6

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STRIPING AND SIGNING PLAN

Londonderry Dr. and Towner Ave.

Signing and Striping Modifications Plan