

# ARMSTRONG AVENUE IMPROVEMENTS

## NORTH 21ST STREET to NORTH 17TH STREET

### COMMUNITY DEVELOPMENT BLOCK GRANT PROJECT

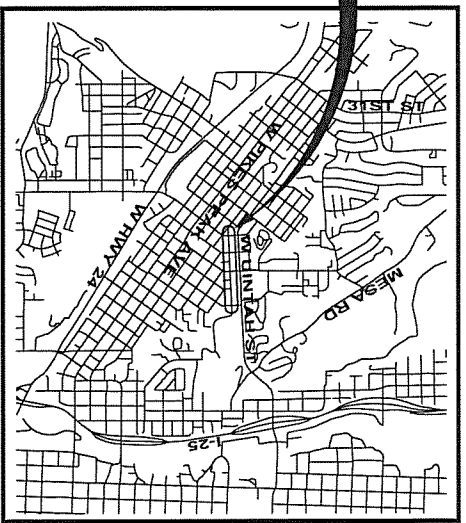


CITY OF COLORADO SPRINGS  
ROADWAY ENGINEERING DIVISION

**APPROVALS:**

- CITY ROADWAY ENGINEERING DIVISION  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_
- CITY TRAFFIC ENGINEERING DIVISION  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_
- CITY STREETS DIVISION  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_
- COLORADO SPRINGS UTILITIES - WASTEWATER  
PROJECT NO. 2818-XXXX  
R.M.S. NO. XXXXXXX  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_
- COLORADO SPRINGS UTILITIES - WATER  
PROJECT NO. 2818-XXXX  
R.M.S. NO. XXXXXXX  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_
- COLORADO SPRINGS UTILITIES - GAS DEPARTMENT  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_
- COLORADO SPRINGS UTILITIES - ELECTRIC DEPARTMENT  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_
- QWEST COMMUNICATIONS  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_
- COMCAST CABLE  
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**SITE**

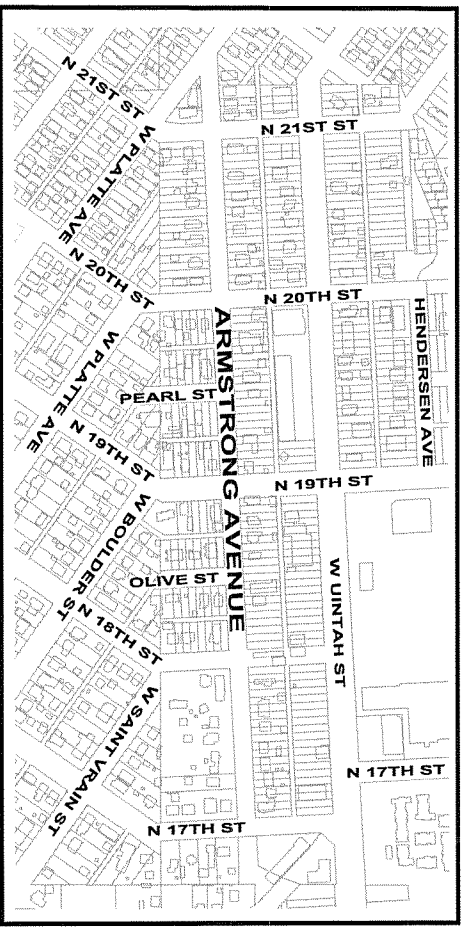


**VICINITY MAP**

1"=300'

**SHEET INDEX:**

- 1 TITLE SHEET
- 2 NOTES
- 3 STA. 1+00 TO 3+75
- 4 STA. 3+75 TO 7+00
- 5 STA. 7+00 TO 10+25
- 6 STA. 10+25 TO 13+50
- 7 STA. 13+50 TO 16+75
- 8 STA. 16+75 TO 20+00
- 9 STA. 20+00 TO 23+25
- 10 DETAIL SHEET
- 11 DETAIL SHEET



**SITE MAP**

1"=300'

**BID SET**

REVISIONS			
NO.	DATE	DESCRIPTION	BY
1			

**GENERAL NOTES:**

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF COLORADO SPRINGS, ENGINEERING DIVISION, GENERAL PROVISIONS, SPECIAL PROVISIONS, STANDARD SPECIFICATIONS, REVISIONS TO STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS, LATEST REVISION.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH APPLICABLE STANDARDS AND REGULATIONS AS SET FORTH BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
3. NO FIELD CHANGES SHALL BE MADE WITHOUT EROR WRITTEN APPROVAL OF THE PROJECT ENGINEER.
4. SUBMITTALS SHALL BE MADE FOR ALL MATERIALS TO BE INCORPORATED INTO THIS PROJECT.
5. UTILITY LINES ARE SHOWN ON THE PLAN SHEETS ARE PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 TWO BUSINESS DAYS IN ADVANCE OF ANY EXCAVATION OR GRADING. FOR A LIST OF SPECIFIC CONTACTS SEE SPECIFICATIONS.
6. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 TWO BUSINESS DAYS IN ADVANCE OF ANY EXCAVATION OR GRADING. FOR A LIST OF SPECIFIC CONTACTS SEE SPECIFICATIONS.
7. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL UTILITIES AND STRUCTURES AFFECTED BY THE WORK AND ANY DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UTILITIES DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UTILITIES DURING CONSTRUCTION. THE UTILITY DEPARTMENTS SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WHERE THESE DEPARTMENTS MAY BE AFFECTED.
8. THE CONTRACTOR SHALL NOTIFY THE GAS DIVISION INSPECTOR (636-5736) AT LEAST 48 HOURS IN ADVANCE OF ANY CONSTRUCTION NEAR ANY GAS FACILITIES. THE GAS DIVISION WILL RELOCATE THE GAS SERVICES REQUIRED ON AN AS NEEDED BASIS.
9. EXCAVATION AT GAS LINES: TEMPORARY COVER DURING CONSTRUCTION SHALL BE AT LEAST 18 INCHES OVER THE GAS CONDUIT. FINISH GRADE MUST BE AT LEAST 2 FEET AND NO MORE THAN 6 FEET OVER THE GAS CONDUIT.
10. IN SOME OF THE PROPOSED AREAS OF CONSTRUCTION, EXISTING UNDERGROUND TELEPHONE AND CABLE TELEVISION FACILITIES MAY BE LOCATED IN CLOSE PROXIMITY TO THE WORK. THE CONTRACTOR MAY, IF NECESSARY, TEMPORARILY DISPLACE THE CABLES DURING CONSTRUCTION AND REINSTALL THEM IN ACCORDANCE WITH THE APPROPRIATE TELEPHONE OR CABLEVISION COMPANY'S GUIDELINES. COORDINATION WITH BOTH THE TELEPHONE AND THE CABLE TELEVISION COMPANY IS REQUIRED TO BE DONE BY THE CONTRACTOR.
11. THE CONTRACTOR SHALL OBTAIN AN APPROVED TRAFFIC CONTROL PLAN PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
12. THE PHYSICAL FEATURES WITHIN THE LIMITS OF THE PROJECT HAVE BEEN SHOWN BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN. CITY ENGINEERING ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE RECORDS. THE CONTRACTOR SHALL RESEARCH AND VERIFY EXISTING PHYSICAL FEATURES AND ELEVATIONS AND NOTIFY THE ENGINEER OF THE CONDITIONS TO BE ENCOUNTERED DURING THE CONSTRUCTION.
13. THE CONTRACTOR SHALL LIMIT ALL WORK AND STORAGE AREAS TO THE PUBLIC RIGHT-OF-WAYS AND EASEMENTS. USE OF ANY PRIVATE AREAS FOR THIS PROJECT BY THE CONTRACTOR MUST BE APPROVED IN WRITING BY THE PROPERTY OWNER WITH A COPY OF THIS APPROVAL PROVIDED TO THE ENGINEER PRIOR TO USAGE.
14. ALL CONSTRUCTION IS TO INCLUDE COMPACTION AND FINISH GRADING IN THE LIMIT PRICE OF RELATED WORK ITEM.
15. ALL WORK SHALL BE DONE TO THE LINES, GRADES, SECTIONS, AND ELEVATIONS SHOWN ON THE PLANS UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER.
16. ALL UTILITIES AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE CITY OF COLORADO SPRINGS ENGINEER.
17. THE ENGINEER SHALL BE NOTIFIED WITHIN 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
18. PAVEMENT, DIMENSIONS AND RADIUS ARE SHOWN TO THE FLOWLINE UNLESS OTHERWISE NOTED.
19. THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AND/OR TOES OF SLOPE AS SHOWN ON THE PLANS AND CROSS SECTIONS. ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITIONS BY THE CONTRACTOR AT HIS/HER OWN EXPENSE. CONSTRUCTION PARKING OF VEHICLES OR EQUIPMENT, DISPOSAL OF LITTER AND ANY OTHER ACTION WHICH WOULD ALTER EXISTING CONDITIONS.
20. THE CONTRACTOR SHALL NOT REMOVE AND SHALL PROTECT FROM DAMAGE ALL TREES, BUSHES, AND EXISTING IMPROVEMENTS INSIDE AND OUTSIDE OF THE LIMITS OF WORK. SPECIAL PROVISIONS ARE SHOWN ON THE PLANS.
21. NO TREES SHALL BE REMOVED OR TRIMMED WITHOUT PRIOR ACKNOWLEDGMENT OF THE PROPERTY OWNER AND/OR PROJECT ENGINEER.
22. THE CONTRACTOR SHALL PROTECT THE EXISTING DRAINAGE STRUCTURES AND REROUTE ANY RUNOFF AS NECESSARY DURING CONSTRUCTION ACTIVITIES TO PREVENT EROSION AND DAMAGE.
23. THE CONTRACTOR SHALL PROVIDE SAFE PEDESTRIAN ACCESS AT ALL TIMES DURING THE PROJECT.
24. THE CONTRACTOR SHALL CLOSELY MONITOR ACCESS FOR HEAVY CONSTRUCTION EQUIPMENT THROUGH THE PROJECT AND RESIDENTIAL AREAS.
25. SHOULD THE CONSTRUCTION ACTIVITY CONTINUE PAST 7:00 P.M., THE CONTRACTOR SHALL ENSURE THAT THE NOISE LEVEL DOES NOT EXCEED THE LIMITS SPECIFIED IN THE CITY ORDINANCE.
26. WHERE PAVEMENT IS TO ABUT EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE REMOVED TO A NEAT VERTICAL LINE BY FULL DEPTH SAWING. SAWING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCIDENTAL TO REMOVAL OF ASPHALT PAVEMENT. THE CONTRACTOR WILL BE REQUIRED TO PAINT THE EDGE OF CUT PAVEMENT WITH DILUTED EMULSIFIED ASPHALT (SLOW SETTING) PRIOR TO PAVING OPERATIONS. VERTICAL EDGES SHALL NOT REMAIN OVERNIGHT. EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF ONE PART EMULSIFIED ASPHALT AND ONE PART WATER.
27. WATER SHALL BE USED AS A DUST PALIATIVE WHERE REQUIRED. LOCATION SHALL BE AS ORDERED. THE COST OF WATER SHALL BE INCIDENTAL TO OTHER BID ITEMS.
28. THE PHYSICAL FEATURES REQUIRING REMOVAL OR DETERIORATION WITHIN THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND ASPHALT SHALL BE DISPOSED OF OFF-SITE. THE EXCEPTION IS TRAFFIC CONTROL DEVICES WHICH SHALL BE SALVAGED FOR CITY MAINTENANCE.
29. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING ANY MONUMENT RANGE POINTS, TIES, BENCHMARKS AND/OR SURVEY CONTROL POINTS WHICH MAY BE DISTURBED OR DESTROYED BY CONSTRUCTION. SUCH POINTS SHALL BE RELOCATED TO A NEARBY PERMANENTLY MARKED POINT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AUTHORIZATION TO PRACTICE LAND SURVEYING IN THE STATE OF COLORADO.
30. THE CONTRACTOR SHALL HAVE A COPY OF ALL APPLICABLE STANDARDS AND APPROVED CONSTRUCTION DOCUMENTS ON SITE FOR THE DURATION OF THE PROJECT.
31. THE CONTRACTOR SHALL NOT STOCKPILE MATERIAL WITHIN 10 FT. OF THE EDGE OF THE TRAVELED WAY.
32. THE FOLLOWING SHALL BE FURNISHED WITH EACH BITUMINOUS PAVEMENT. THIS DEVICE SHALL BE USED ON ALL PASSES AND LIFTS OF BITUMINOUS PAVEMENT PLACE
  - A. A SURF TYPE DEVICE AT LEAST 30 FEET IN LENGTH.
  - A. A SURF TYPE DEVICE AT LEAST 30 FEET IN LENGTH.
  - CONTROL LINE AND SINKS, SUFFICIENT FOR EACH PHASE OF THE PROJECT.
33. ANY LAYER OF BITUMINOUS PAVEMENT THAT IS TO HAVE SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED FULL WIDTH BEFORE SUCCEEDING LAYER IS PLACE.
34. BEFORE PLACEMENT OF THE TACK COAT, THE CONTRACTOR SHALL CLEAN THE PRESENT ROADWAY AS DIRECTED. CLEANING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE PROJECT.
35. A TACK COAT OF EMULSIFIED ASPHALT (SLOW SETTING) IS TO BE APPLIED BETWEEN PAVEMENT COURSES TO IMPROVEMENT BOND. DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF 1 PART EMULSIFIED ASPHALT AND 1 PART WATER.
36. STORM INLET STATIONING AND ELEVATION REFERENCE TOP FRONT MIDDLE OF BOX. STORM MANHOLE STATIONING REFERENCE CENTER OF MANHOLE.
37. THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN TEMPORARY TRAFFIC CONTROL DEVICES NECESSARY THROUGHOUT THE DURATION OF CONSTRUCTION. THE CONTRACTOR SHALL CONTACT TRAFFIC ENGINEERING FORTY-EIGHT (48) HOURS IN ADVANCE FOR ANY REQUIRED MODIFICATION OF TRAFFIC SIGNALS WITHIN CONSTRUCTION AREA AS NECESSARY TO MAINTAIN SAFE OPERATIONS.
38. EXISTING AND PROPOSED JUNCTION BOX LIDS, WATER VALVES, SANITARY SEWER, OR STORM SEWER MANHOLE LIDS SHALL BE RAISED TO MATCH PROPOSED NEW GRADE. ALL ADJUSTMENTS OR MATERIALS REQUIRED FOR THE ADJUSTMENT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

**GENERAL NOTES (CONT):**

39. ALL WORK DONE ON OR AROUND WATER RESOURCES DEPARTMENT FACILITIES MUST BE INSPECTED BY A WATER RESOURCES DEPARTMENT INSPECTOR. THE CONTRACTOR IS REQUIRED TO NOTIFY THE WATER RESOURCES DEPARTMENT PRELIM INSPECTION SECTION (638-5854) TWO WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION. IF THIS PROJECT INVOLVES A TAP, DO NOT BE PERMITTED TO BEGIN CONSTRUCTION UNTIL THE WATER RESOURCES DEPARTMENT PRELIM INSPECTION SECTION HAS REVIEWED AND APPROVED THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRELIM INSPECTION IN ADVANCE AND WILL BE SUBJECT TO OTHER CHARGES PER W.R.D. SPECIFICATIONS.
40. THE CONTRACTOR SHALL AT THEIR EXPENSE, SUPPORT AND PROTECT ALL WATER MAINS SO THAT THEY WILL FUNCTION CONTINUOUSLY DURING CONSTRUCTION EXCEPT THOSE DESIGNATED TO BE TEMPORARILY SHUT DOWN. TEMPORARY WATER SERVICE DURING CONSTRUCTION SHALL BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL WATER MAINS AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL WATER MAINS. THE CONTRACTOR OR THE WATER RESOURCES DEPARTMENT AT THE FULL COST OF LABOR AND MATERIALS TO THE CONTRACTOR.
41. ANY DISCREPANCY WITHIN THESE PLANS SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND WORK SHALL STOP UNTIL THE DISCREPANCY IS DISCUSSED AND DECISIONS/AGREEMENTS HAVE BEEN MADE.
42. REFER TO BIDDING MANUAL FOR PAY ITEM DESCRIPTIONS AND MEASUREMENT. ALL WORK WITHOUT A SPECIFIC BID ITEM IS INCIDENTAL TO OTHER PAY ITEMS.
43. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
44. OWNER OR CONTRACTOR TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICES.

**EARTHWORK:**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LEGAL DISPOSAL OF ANY EXCESS SOIL, DEBRIS AND WASTE MATERIAL OFF OF THE PROJECT SITE.
2. ANY SOIL LYING BELOW THE SURFACE ELEVATION WHICH IS DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE REMOVED AND REPLACED WITH STRUCTURAL FILL IN ACCORDANCE WITH SPECIFICATION REQUIREMENTS.
3. ANY MATERIAL NOT SUITABLE FOR BACKFILL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY AND AT THE EXPENSE OF THE CONTRACTOR.

**BENCHMARK AND SURVEY CONTROL:**

1. THE CONTRACTOR SHALL BE RESPONSIBLE COORDINATION WITH THE CITY SURVEYORS FOR CONSTRUCTION STAKING OF BOTH THE PROJECT AND THE ADJACENT PROJECTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL SURVEYORS FOR INTERPRETATION AND INFORMATION IN STAKING OF THE PROJECT FOR CONSTRUCTION.
2. A TEMPORARY BENCHMARK HAS BEEN ESTABLISHED FOR THIS PROJECT UNLESS OTHERWISE NOTED.
3. PRIOR TO PROJECT COMPLETION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLENISHMENT OF ANY PROPERTY MARKERS DESTROYED OR REMOVED BY CONSTRUCTION. THIS WORK SHALL BE PERFORMED BY A LAND SURVEYOR LICENSED IN THE STATE OF COLORADO. PROPERTY CORNERS WHICH FALL WITHIN NEW CONCRETE FLOWWORK SHALL BE DURABLE AND SET FLUSH.

**TRAFFIC GENERAL NOTES:**

1. THE APPROVAL OF THESE PLANS OR THE ISSUANCE OF A PERMIT BY THE CITY OF COLORADO SPRINGS DOES NOT AUTHORIZE THE SUBDIVIDER AND OWNER TO VIOLATE ANY FEDERAL, STATE, OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NEW TEMPORARY AND EXISTING TRAFFIC SIGNS FROM THE START OF CONSTRUCTION PROJECT UNTIL ACCEPTANCE BY CITY TRAFFIC ENGINEERING.
3. ALL TRAFFIC SIGNS, PAVEMENT MARKINGS, AND TRAFFIC SIGNALS SHALL MEET OR EXCEED M.U.T.C.D. STANDARDS.
4. THE CONTRACTOR SHALL NOT REMOVE ANY EXISTING SIGNS, PAVEMENT MARKINGS, OR TRAFFIC SIGNALS DURING THE PROJECT WITHOUT SIGNED AUTHORIZATION OF THE CITY ENGINEERING INSPECTOR ASSIGNED TO THE PROJECT.
5. THE CONTRACTOR SHALL PREPARED A DETAILED TRAFFIC CONTROL PLAN, SUBMIT TO CITY TRAFFIC ENGINEERING FOR APPROVAL, AND OBTAIN APPROPRIATE PERMITS IN ACCORDANCE WITH THE TRAFFIC CONTROLS FOR STREET CONSTRUCTION, UTILITY WORK AND MAINTENANCE OPERATIONS', M.U.T.C.D. SUPPLEMENT FOR THE CITY OF COLORADO SPRINGS, AUGUST 1992.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, AND MAINTAINING THE TEMPORARY TRAFFIC CONTROL DEVICES THROUGHOUT THE DURATION OF THE PROJECT.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NEW TEMPORARY AND EXISTING SIGNAL MODIFICATIONS.

**SIGNING AND STRIPING GENERAL NOTES:**

1. INSTALLATION OF ALL STRIPING, SIGNS AND PAVEMENT MARKERS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVAL OF EXISTING PAVEMENT MARKINGS (SCARPING OF PAVEMENT IS NOT PERMITTED), AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR OVERLAYING OR CHIP SEALING ROADWAY, IF SCARPING OCCURS DURING REMOVAL OF EXISTING OR TEMPORARY PAVEMENT MARKINGS. THE CITY TRAFFIC ENGINEER WILL DETERMINE METHOD OF PAVEMENT REPAIR.
4. ALL STRIPING AND SIGNING SHALL CONFORM TO THE MOST RECENT ADOPTED EDITION OF THE FOLLOWING MANUALS AND THEIR SUPPLEMENTAL AMENDMENTS:
  - A. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
  - B. CITY OF COLORADO SPRINGS SIGNS AND MARKING GUIDELINES
  - C. CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS
  - D. CITY OF COLORADO SPRINGS PUBLIC WORKS DESIGN MANUAL
5. ALL SIGNING AND STRIPING IS SUBJECT TO THE APPROVAL OF THE CITY TRAFFIC ENGINEER PRIOR TO INSTALLATION AND/OR REMOVAL.
6. CONTRACTOR SHALL REMOVE ALL CONFLICTING STRIPING, PAVEMENT MARKINGS AND LEGENDS BY HYDROBLASTING, SANDBLASTING AND/OR GRINDING. ANY DEBRIS SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.
7. SIGN POSTS SHALL BE INSTALLED WITH A MINIMUM OF 1 3/4" X 10" SQUARE PERFORATED STEEL TUBING WITH SLEEVE PER CITY OF COLORADO SPRINGS STANDARD.
8. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM OF HIGH INTENSITY GRADE SHEETING.
9. ANY DEVIATION FROM THE STRIPING AND SIGNING PLANS SHALL BE APPROVED BY THE ENGINEER OF WORK AND THE CITY TRAFFIC ENGINEER PRIOR TO ANY CHANGES BEING MADE IN THE FIELD.
10. ALL SIGNS SHOWN ON THE STRIPING AND SIGNING PLANS SHALL BE NEW SIGNS PROVIDED AND INSTALLED BY THE CONTRACTOR, EXCEPT FOR EXISTING SIGNS SPECIFICALLY INDICATED TO BE RELOCATED OR TO REMAIN.
11. STRIPED CROSSWALKS SHALL HAVE AN INSIDE DIMENSION OF 10 FEET AND CONTINENTAL CROSSWALKS SHALL HAVE A MINIMUM WIDTH OF 9 FEET UNLESS INDICATED OTHERWISE.
12. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS (EXCEPT WITHIN BIKE LANES) SHALL BE A MINIMUM OF 90MIL THICKNESS THERMOPLASTIC OR PREFORM PLASTIC TAPE.
13. ALL LONGITUDINAL LINES SHALL BE A MINIMUM OF 15MIL THICKNESS EPOXY.
14. CONTRACTOR TO DELIVER ALL REMOVED SIGNS TO THE CITY OF COLORADO SPRINGS SIGNS/MARKINGS SHOP AT 404 FONTAINEAU STREET, (719) 578-6889.
15. CONTRACTOR SHALL NOTIFY CITY TRAFFIC ENGINEER (719) 385-5908 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO AND UPON COMPLETION OF STRIPING AND SIGNAGE.

**NPDES DRAINAGE WATER QUALITY NOTES:**

1. THE CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL REMOVE ALL SEDIMENTS, MUD, AND CONSTRUCTION DEBRIS AND REMOVAL SHALL BE CONDUCTED IN A TIMELY MANNER.
2. THE CLEANING OF CONCRETE TRUCK DELIVERY CHUTES IS PROHIBITED AT THE JOB SITE. THE DISCHARGE OF WATER CONTAINING WASTE CONCRETE TO THE STORM SEWER IS PROHIBITED.
3. THE CONTRACTOR SHALL PROTECT ALL STORM SEWER FACILITIES ADJACENT TO ANY LOCATION WHERE PAVEMENT CUTTING OPERATION INVOLVING WHEEL CUTTING, SAW CUTTING OR ABRASIVE WATER JET CUTTING ARE TO TAKE PLACE. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL WASTE PRODUCTS GENERATED BY WHEEL CUTTING OPERATIONS ON A DAILY BASIS. THE DISCHARGE OF ANY WATER CONTAMINATED BY WASTE PRODUCTS FROM CUTTING OPERATIONS TO THE STORM SEWER SYSTEM IS PROHIBITED.
4. THE CONTRACTOR MUST KEEP ALL POLLUTANTS, INCLUDING TRENCH BACKFILL MATERIAL, FROM WASHING INTO THE STORM SEWER SYSTEM.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A STORM WATER MANAGEMENT PLAN PERMIT FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, IF THE PROJECT MEETS MINIMUM REQUIREMENTS FOR A PERMIT.

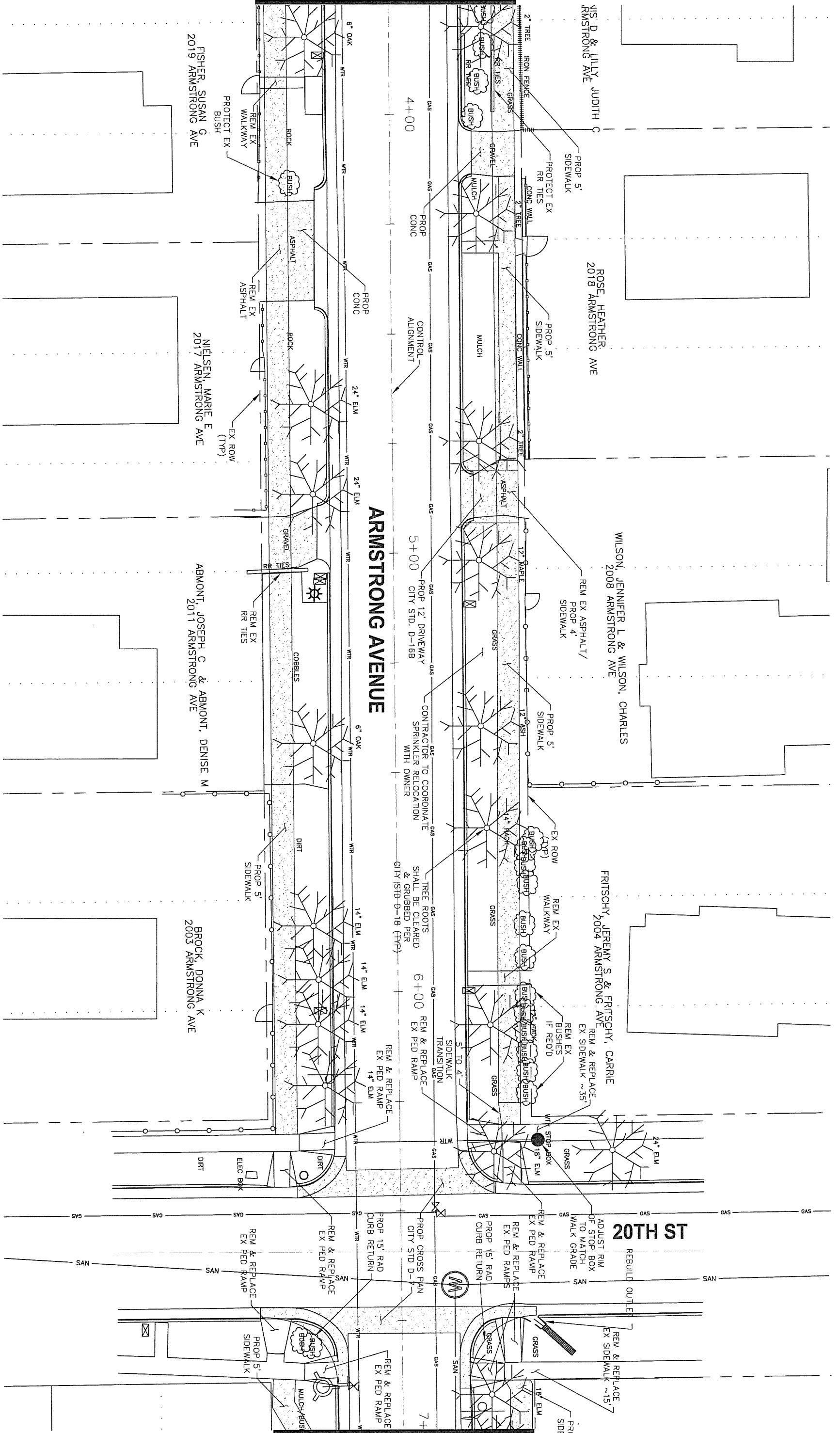
**GENERAL CONSTRUCTION NOTES:**

1. PAY ITEMS LISTED IN THE BID SCHEDULE ARE THE ONLY PAY ITEMS FOR THE PROJECT, ANY OTHER ITEMS NECESSARY FOR COMPLETION OF THE PROJECT SHALL BE INCLUDED IN OTHER ITEMS. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO BIDDING PROJECT. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE, EXCEPT AS NOTED.
2. ANY CONTRACTOR-CAUSED DAMAGE TO UTILITY AND/OR SERVICE LINES, SHOWN OR NOT SHOWN ON THE PLANS, SHALL BE REPAIRED OR REPLACED AT NO COST TO THE CITY OF COLORADO SPRINGS AND SHALL BE ACCOMPLISHED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER PRIOR TO COMMENCING WORK IN THE PROJECT AREA. LENSES, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK AND THAT OF THE INVOLVED UTILITIES IN THE PROJECT AREA.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL LABOR, MATERIAL, EQUIPMENT AND INCIDENTAL ITEMS NEEDED TO PROVIDE ADEQUATE CONSTRUCTION SIGNING, BARRICADES, TRAFFIC CONTROL DEVICES AND OTHER RELATED ITEMS OF THE PROJECT AREA, DURING THE CONSTRUCTION PERIOD. THIS WORK SHALL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEM.
4. THE CONTRACTOR SHALL CAREFULLY REMOVE, STORE AND REINSTALL ALL CITY-OWNED SIGNS WHOSE REMOVAL IS REQUIRED BY THIS CONSTRUCTION WORK IN THE PROJECT AREA. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR THE CITY TO INSPECT ALL SIGNS SCHEDULED FOR REMOVAL PRIOR TO THEIR REMOVAL. ONCE SAID SIGNS HAVE BEEN REMOVED, THE CITY WILL BE RESPONSIBLE FOR THE REPAIR AND REINSTALLATION OF THE SIGNS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL SIGNS AND MATERIALS TO BE REPAIRED AT NO COST TO THE CITY. MATERIALS SHALL BE APPROVED BY THE PROJECT ENGINEER. ALL POST-MOUNTED SIGNS SHALL BE RESET AT THE PROPER HEIGHT AND LOCATION (CITY TO PROVIDE LOCATION OR AS SHOWN ON THE ENCLOSED PLAN).
5. ALL SIDEWALK AND PAVED DRIVEWAY REMOVALS SHALL BE BOUNDED BY JOINTS OR SAWCUTS. SAWCUTS IS TO BE CONSIDERED AN INCIDENTAL ITEM AND THE COST OF THIS ITEM IS TO BE INCLUDED IN OTHER PAY ITEMS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL DRIVEWAY CLOSINGS WITH THE RESPECTIVE PROPERTY OWNERS AND TENANTS, IF PROPERTY IS RENTED. EXISTING CONCRETE DRIVEWAYS SHALL BE REPLACED PER CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS.
7. PROPERTY OWNERS WILL BE NOTIFIED BY THE CITY, PRIOR TO CONSTRUCTION, THAT IF WILL BE THE OWNERS' RESPONSIBILITY TO REMOVE TREES, SHRUBS OR OTHER PLANTS OTHER THAN THE PROPOSED SIDEWALK CONSTRUCTION AREAS. TREES ARE NOT TO BE REMOVED UNLESS THEY ARE DEAD OR DISEASED. TREES TO BE REMOVED SHALL BE REMOVED BY THE CITY. TREES TO BE REMOVED SHALL BE REMOVED BY THE PROJECT ENGINEER. FENCES SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR UNIT PRICE FOR FENCES AS DIRECTED BY THE PROJECT ENGINEER. TREES MARKED TO BE TRIMMED IN THE PLANS SHALL BE DONE AT THE DIRECTION OF THE PROJECT ENGINEER. THIS WORK SHALL BE INCLUDED IN THE CLEARING AND GRUBBING PAY ITEM.
8. THE CONTRACTOR SHALL TAKE SPECIAL CARE NOT TO DAMAGE TREES AND SHRUBS UNLESS SO DIRECTED BY THE PROJECT ENGINEER.
9. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO THE START OF WORK. THIS WORK IS TO BE CONSIDERED AN INCIDENTAL ITEM AND THE COST OF THIS ITEM IS TO BE INCLUDED IN OTHER PAY ITEMS.
10. ANY SUBURB EXCAVATION TO INCLUDE BUT NOT LIMITED TO THE REMOVAL OF LANDSCAPING FOR SIDEWALK INSTALLATION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSAL SHALL BE THE CONTRACTOR'S RESPONSIBILITY AT NO ADDITIONAL COST.
11. THE CITY SURVEYORS SHALL BE RESPONSIBLE FOR ALL SURVEYING AND CONSTRUCTION STAKING FOR THE PROJECT. ALL GRADING AND SURROUNDING SHALL BE IN ACCORDANCE WITH THE PLAN SHEETS AND THE CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS.
12. THE CONTRACTOR SHALL REMOVE AND STOCKPILE ALL SALVAGED TOPSOIL TO BE USED LATER AS BACKFILL BEHIND CURBS AND DRIVES OR IN THE RESTORATION OF DISTURBED AREAS. THIS WORK IS TO BE CONSIDERED AN INCIDENTAL ITEM AND THE COST OF THIS ITEM IS TO BE INCLUDED IN OTHER PAY ITEMS.
13. THE CONTRACTOR SHALL LEVEL ALL DISTURBED AREAS WITH TOPSOIL AND HAND-RAKE TO A UNIFORM APPEARANCE. THIS WORK IS TO BE CONSIDERED AN INCIDENTAL ITEM AND THE COST OF THIS ITEM IS TO BE INCLUDED IN OTHER PAY ITEMS.
14. CAUTION: FOR UNDERGROUND UTILITY LOCATIONS, CONTACT 1-800-922-1987 PRIOR TO EXCAVATION. ALL COSTS ASSOCIATED WITH THE LOCATION AND VERIFICATION OF EXISTING UTILITIES SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

NO.	DATE	DESCRIPTION	BY
1		REVISIONS	

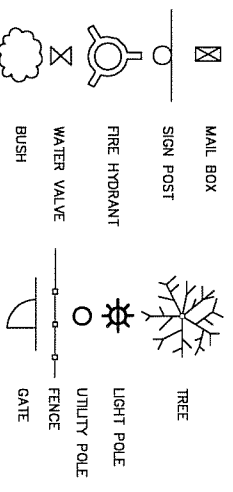


MATCH LINE STA 3+75



MATCH LINE STA 7+00

LEGEND



BID SET

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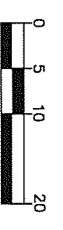
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 DRAWN BY: BES  
 CHECKED BY: MC

DATE: 10/27/11  
 DATE: 10/27/11  
 DATE: 1/9/12

PROJECT: **ARMSTRONG AVENUE IMPROVEMENTS**

FROM: STA. 3+75 TO: STA. 7+00

JOB NO.: (CITY PROJECT NUMBER) SHEET 4 OF 11



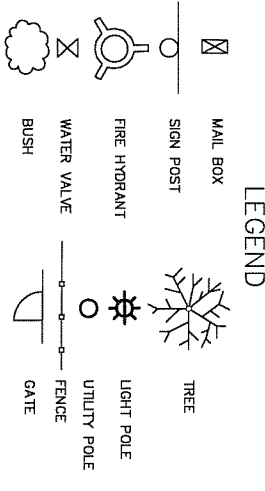
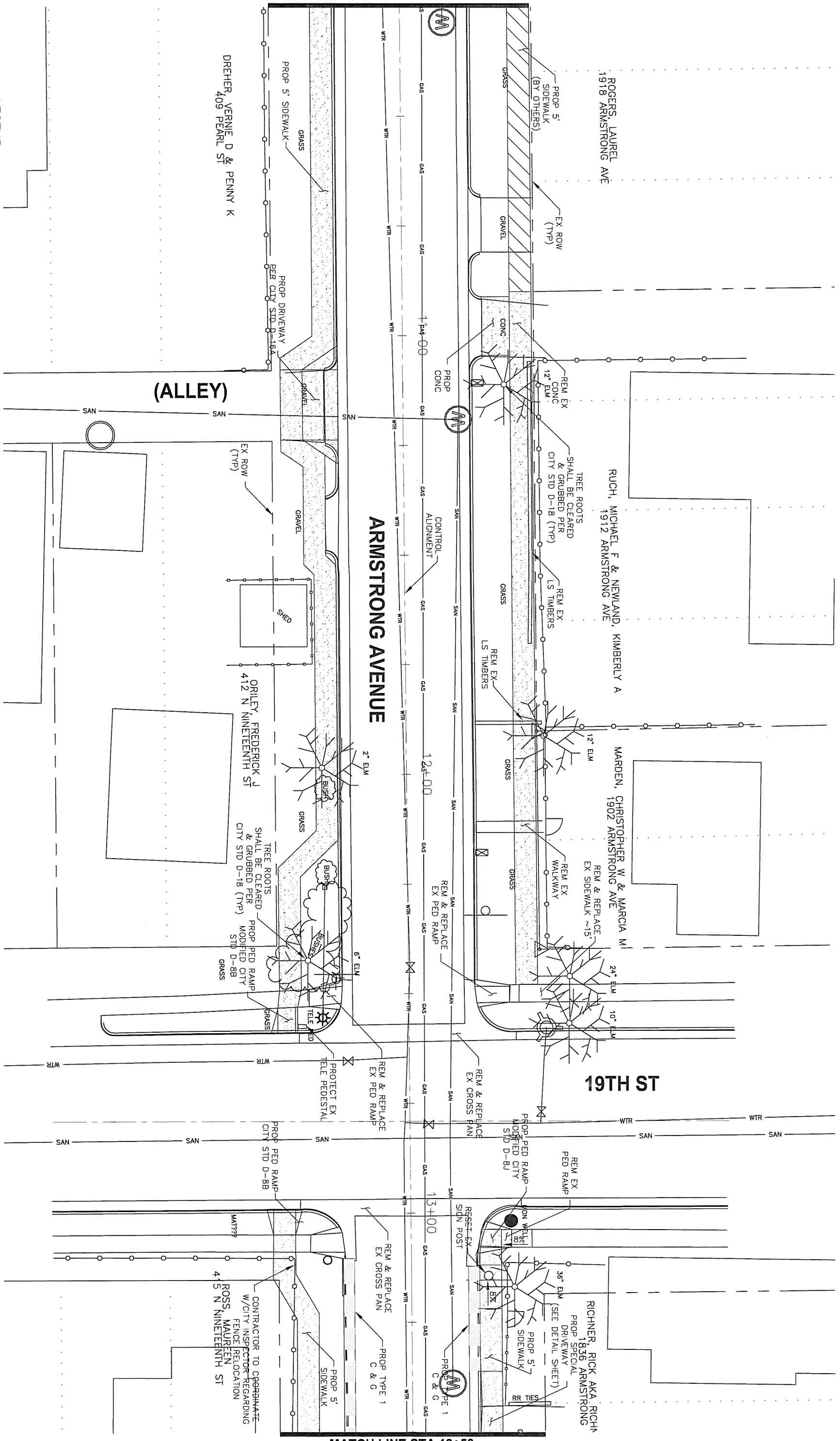
20TH ST





MATCH LINE STA 10+25

MATCH LINE STA 13+50



**BID SET**

NO.	DESCRIPTION	DATE

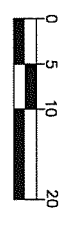
DESIGNED BY: BES  
 DRAWN BY: BES  
 CHECKED BY: MC

DATE: 10/27/11  
 DATE: 10/27/11  
 DATE: 1/9/12

PROJECT: **ARMSTRONG AVENUE IMPROVEMENTS**

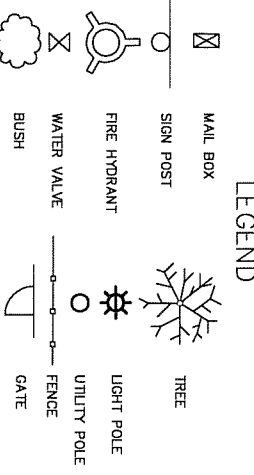
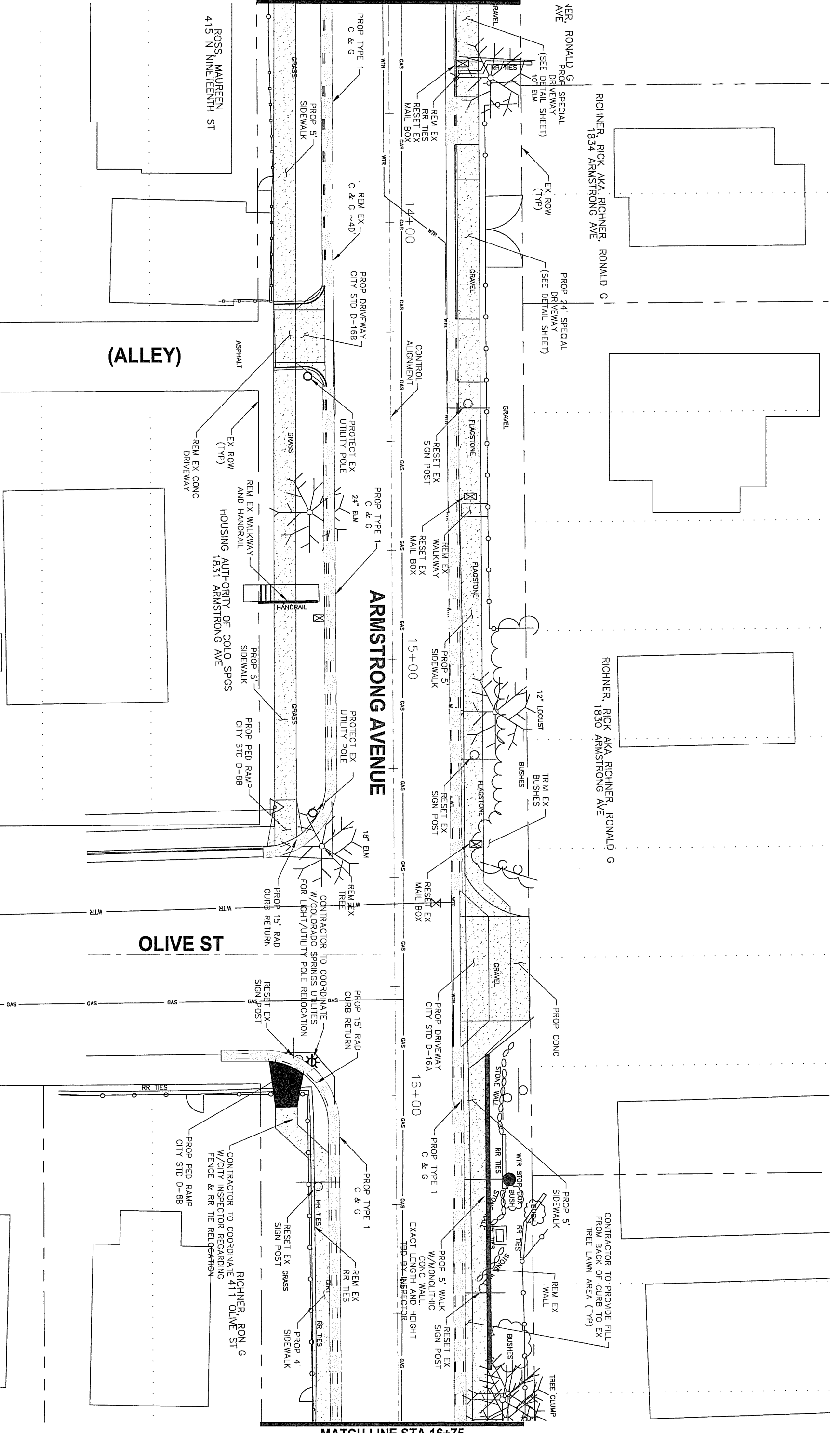
FROM: STA. 10+25 TO: STA. 13+50

JOB NO.: [CITY PROJECT NUMBER] SHEET 6 OF 11



MATCH LINE STA 13+50

MATCH LINE STA 16+75



(ALLEY)

ARMSTRONG AVENUE

OLIVE ST

BID SET

NO.	REVISIONS	DESCRIPTION	DATE

DESIGNED BY: BES  
 DRAWN BY: BES  
 CHECKED BY: MC

DATE: 10/27/11  
 DATE: 10/27/11  
 DATE: 1/9/12

PROJECT: **ARMSTRONG AVENUE IMPROVEMENTS**

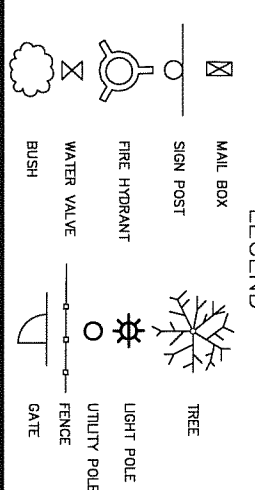
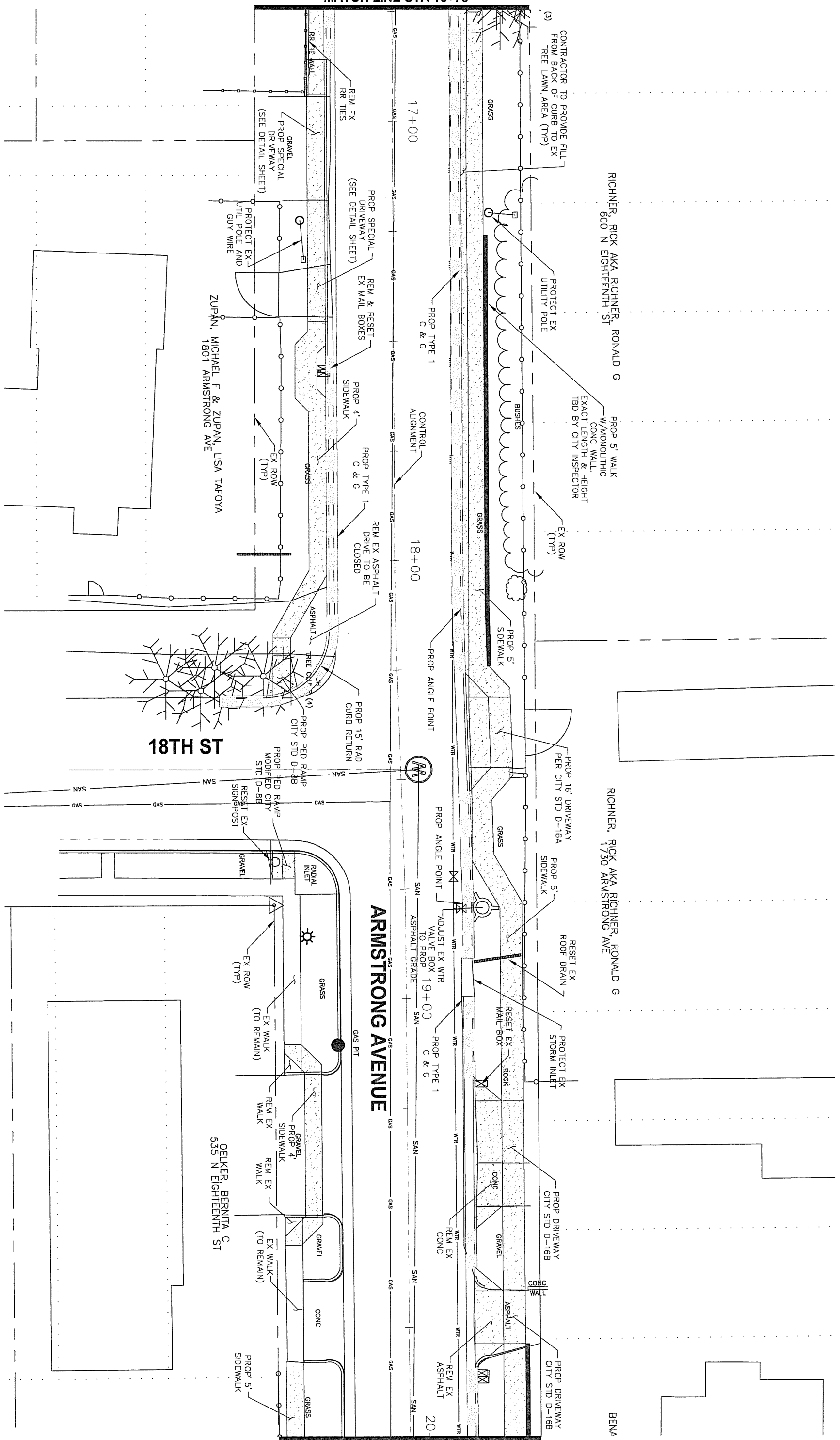
FROM: STA. 13+50 TO: STA. 16+75

JOB NO.: CITY PROJECT NUMBER | SHEET 7 OF 11



MATCH LINE STA 16+75

MATCH LINE STA 20+00



LEGEND

**BID SET**

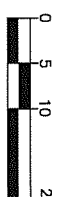
NO.	REVISIONS:	DESCRIPTION	DATE

DESIGNED BY:	BES	DATE:	10/27/11
DRAWN BY:	BES	DATE:	10/27/11
CHECKED BY:	MC	DATE:	1/9/12

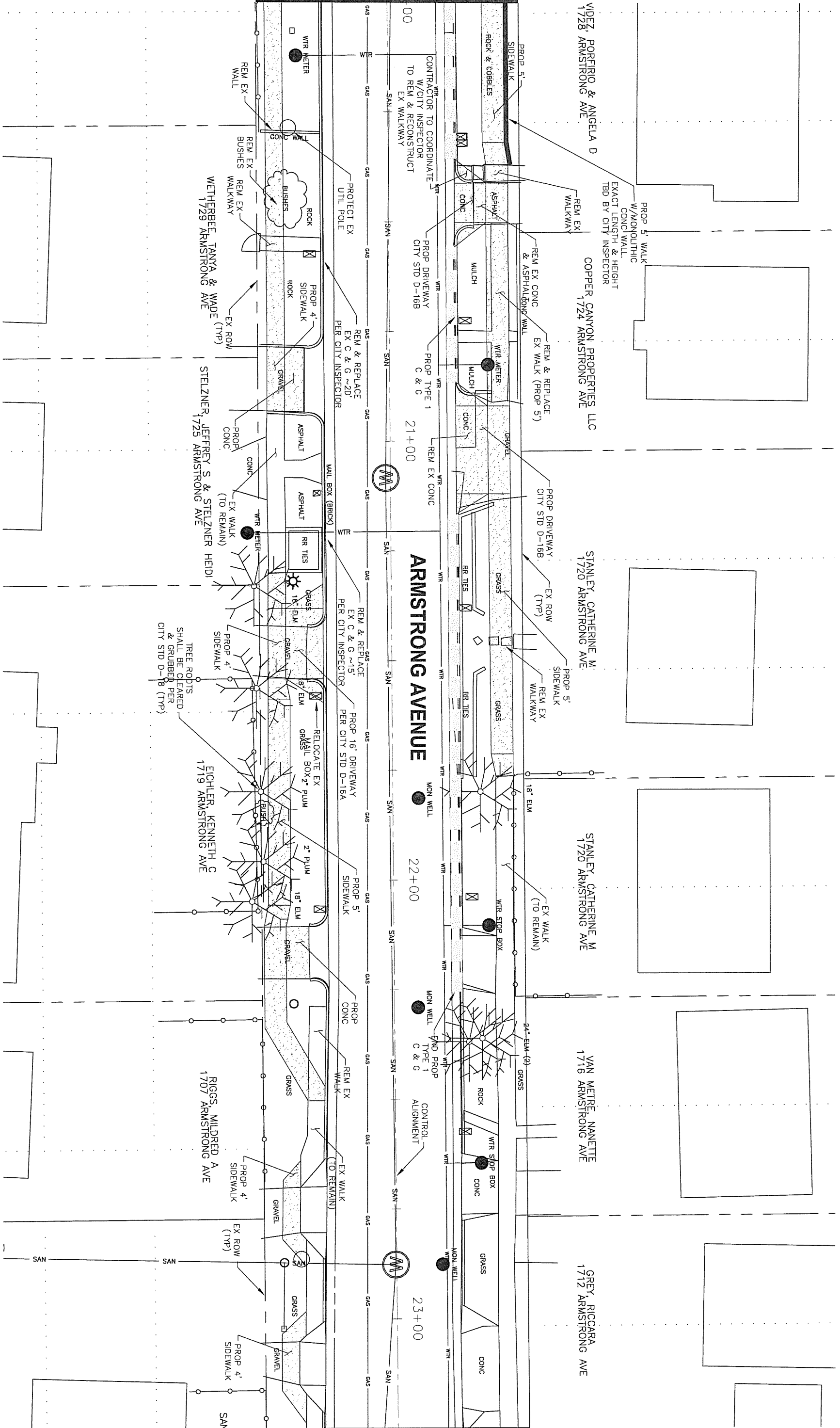
  

PROJECT:	<b>ARMSTRONG AVENUE IMPROVEMENTS</b>		
FROM:	STA. 16+75	TO:	STA. 20+00
JOB NO.:	(CITY PROJECT NUMBER)	SHEET:	8 OF 11



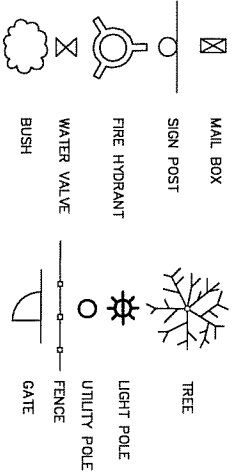
CITY OF COLORADO SPRINGS  
ENGINEERING DIVISION

MATCH LINE STA 20+00



STA 23+25 (17TH STREET ~75' TO EAST)

LEGEND



BID SET

NO.	REVISIONS	DESCRIPTION	DATE

DESIGNED BY: BES  
 DRAWN BY: BES  
 CHECKED BY: MC

DATE: 10/27/11  
 DATE: 10/27/11  
 DATE: 1/9/12

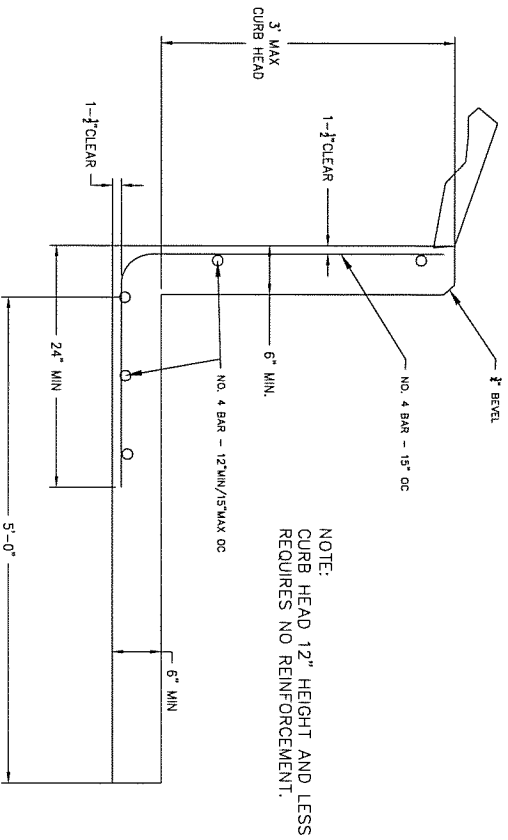
CITY OF GRAND SPRINGS  
 ENGINEERING DIVISION

PROJECT: **ARMSTRONG AVENUE IMPROVEMENTS**

FROM: STA. 20+00 TO: STA. 23+25

JOB NO.: CITY PROJECT NUMBER SHEET 9 OF 11

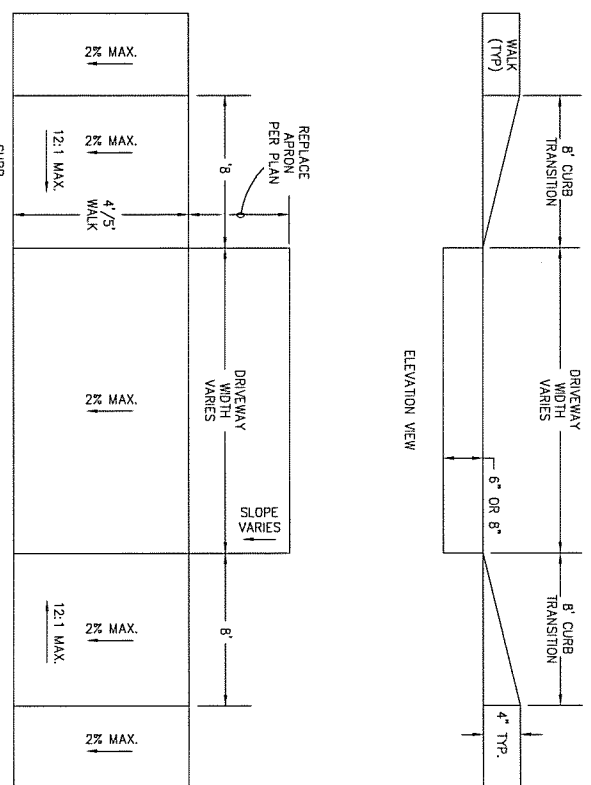




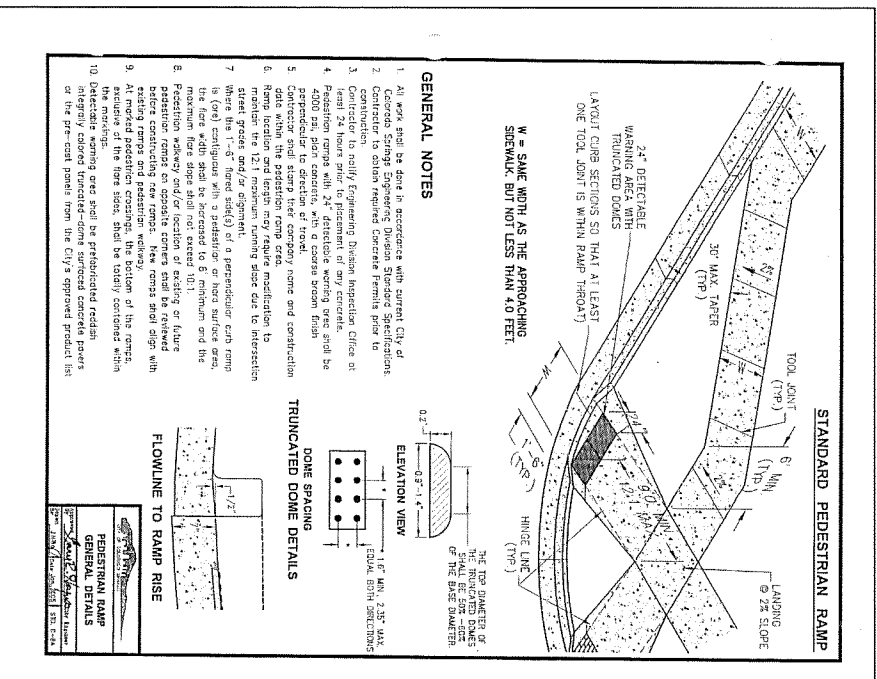
- NOTE:
1. RESTORATION OF DISTURBED AREAS ADJACENT TO RETAINING WALLS SHALL BE CONSIDERED INDICATIVE TO THE PROJECT AND SHALL BE SHOWN AS SUCH.
  2. UNLESS INDICATED OTHERWISE, ALL NECESSARY EXCAVATION, POROUS BACKFILL AND REINFORCING STEEL, AS WELL AS ALL OTHER WORK AND MATERIAL NECESSARY FOR THE CONSTRUCTION DESCRIBED HEREON, SHALL BE INCLUDED IN THE PRICE BID FOR CONCRETE SIDEWALK WITH MONOLITHIC WALL.

NOTE:  
CURB HEAD 12" HEIGHT AND LESS  
REQUIRES NO REINFORCEMENT.

CONCRETE RETAINING WALL WITH MONOLITHIC SIDEWALK DETAIL  
NOT TO SCALE



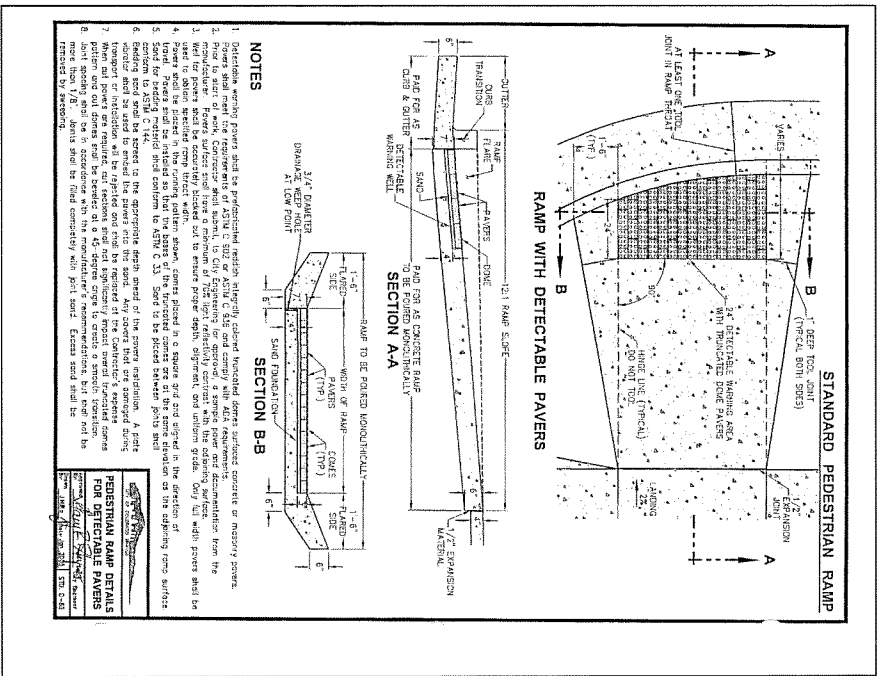
SPECIAL DRIVEWAY DETAIL  
NOT TO SCALE



GENERAL NOTES

1. All work shall be done in accordance with current City of Colorado Springs Engineering Division Standards Specifications.
2. Concrete Slabs and other concrete elements shall be constructed in accordance with the City of Colorado Springs Engineering Division Standards Specifications.
3. Contractor to notify Engineering Division Inspection Office at least 24 hours prior to placement of any concrete.
4. 4000 psi plain concrete, with a coarse brown finish.
5. Reinforcing steel shall be placed in accordance with the City of Colorado Springs Engineering Division Standards Specifications.
6. Ramp location and slope may require modification to meet the 12:1 maximum running slope due to interference with existing utilities.
7. The 12:1 maximum running slope due to interference with existing utilities shall be indicated on the drawings.
8. The face width shall be increased to 6' minimum and the maximum slope shall not exceed 10:1.
9. Pedestrian ramps on opposite corners shall be retained before constructing new ramps. New ramps shall align with existing ramps.
10. At existing pedestrian crossings, the location of the concrete curb and sidewalk shall be indicated on the drawings.
11. The maximum slope shall be 12:1.
12. Check and verify (1/8\"/>

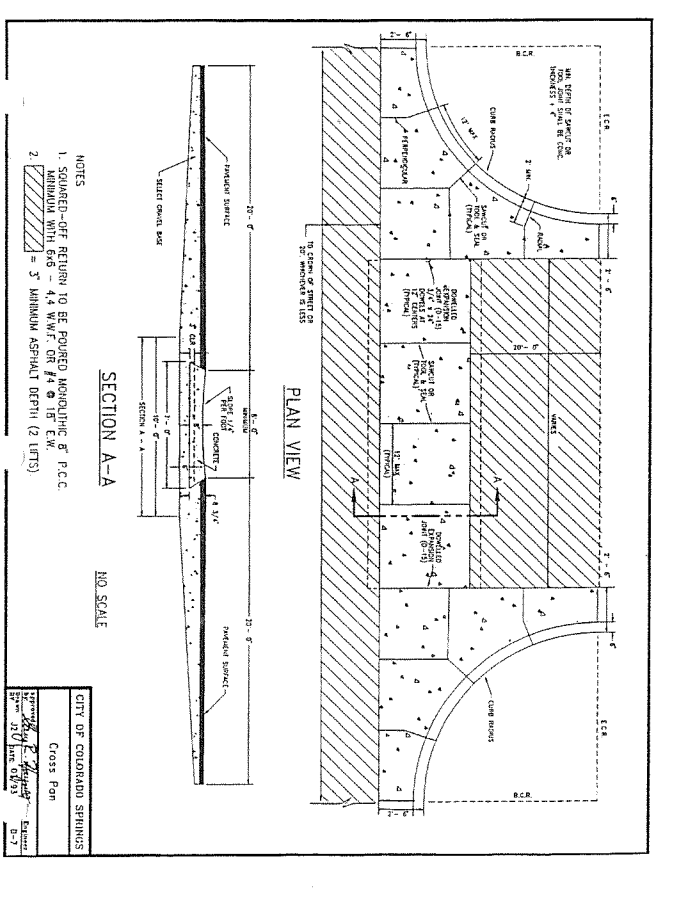
PEDESTRIAN RAMP GENERAL DETAILS (D-8A)  
NOT TO SCALE



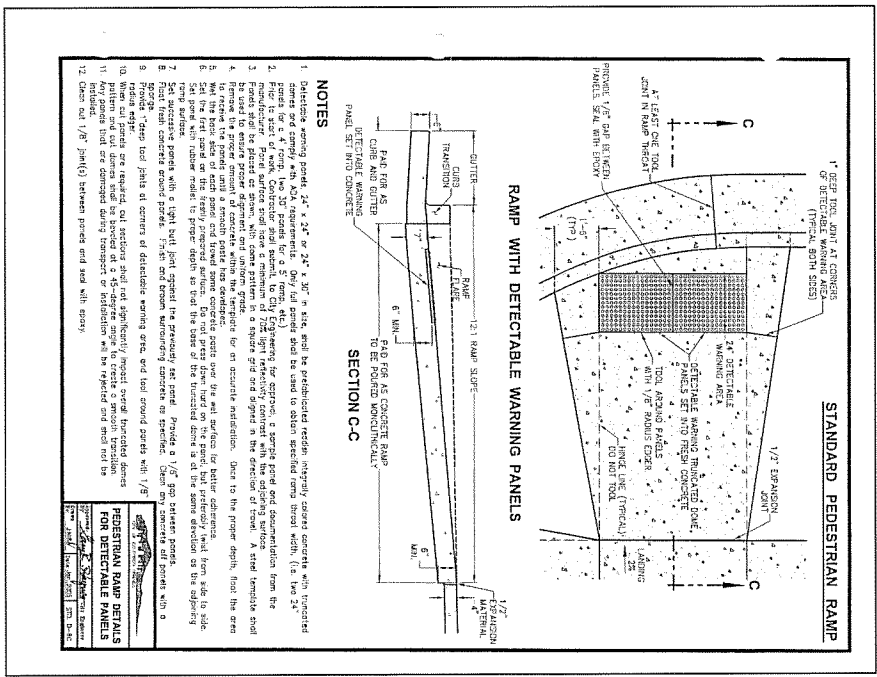
NOTES

1. Detectable warning pavers shall be precast concrete or cast-in-place concrete with a minimum thickness of 4 inches. The pavers shall be installed in a grid pattern with a maximum spacing of 24 inches by 24 inches.
2. Prior to start of work, Contractor shall submit to City Engineering, for review, a stamped power and documentation from the manufacturer of the pavers, which shall include the following information: a) Name of manufacturer, b) Name of product, c) Description of product, d) Material composition, e) Weight of paver, f) Dimensions of paver, g) Color of paver, h) Finish of paver, i) Slip resistance of paver, j) Durability of paver, k) Maintenance of paver, l) Other information as required.
3. The pavers shall be installed in a grid pattern with a maximum spacing of 24 inches by 24 inches.
4. The pavers shall be installed in a grid pattern with a maximum spacing of 24 inches by 24 inches.
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9. The pavers shall be installed in a grid pattern with a maximum spacing of 24 inches by 24 inches.
10. The pavers shall be installed in a grid pattern with a maximum spacing of 24 inches by 24 inches.
11. The pavers shall be installed in a grid pattern with a maximum spacing of 24 inches by 24 inches.
12. Check and verify (1/8\"/>

PEDESTRIAN RAMP DETAILS FOR DETECTABLE PAVERS (D-8B)  
NOT TO SCALE



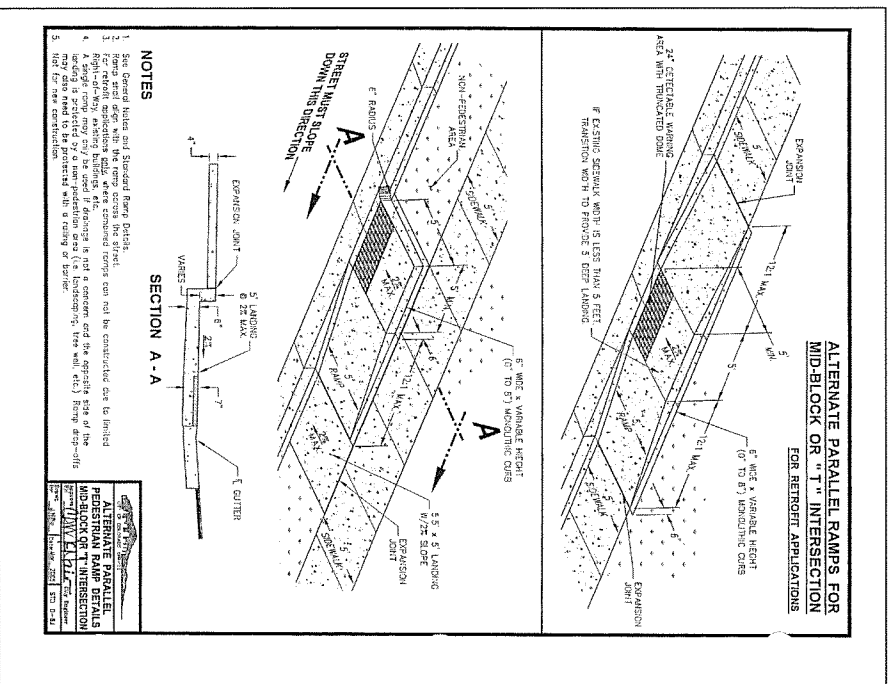
CROSS PAN DETAIL (D-7)  
NOT TO SCALE



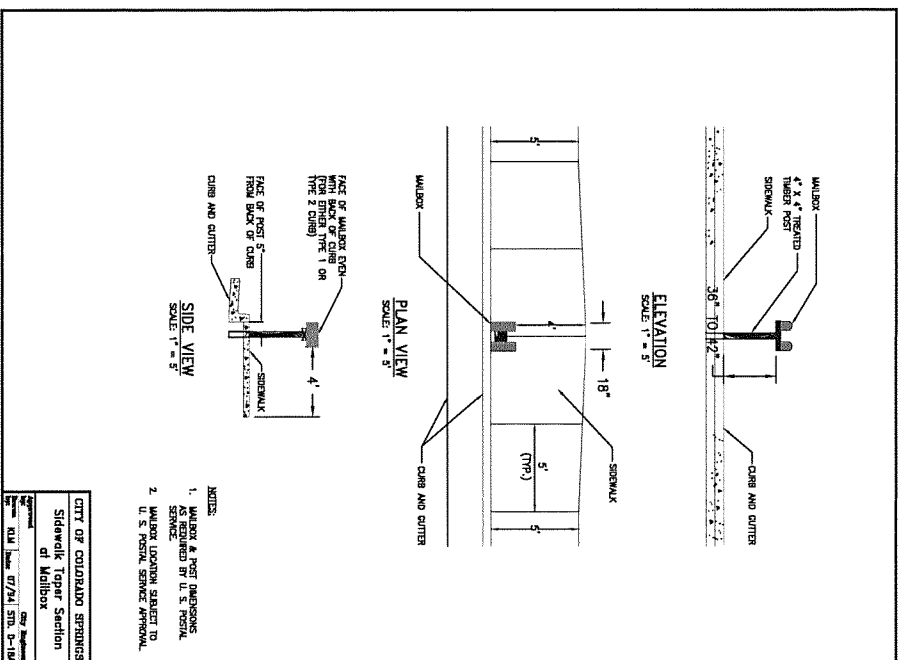
NOTES

1. Detectable warning panels, 24\"/>

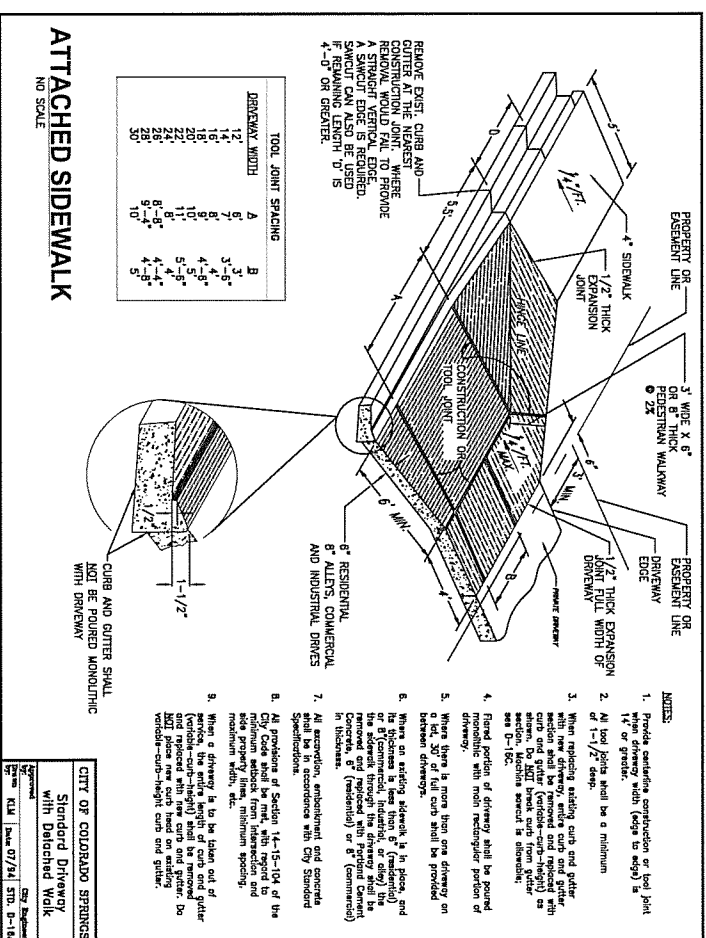
PEDESTRIAN RAMP DETAILS FOR DETECTABLE PANELS (D-8C)  
NOT TO SCALE



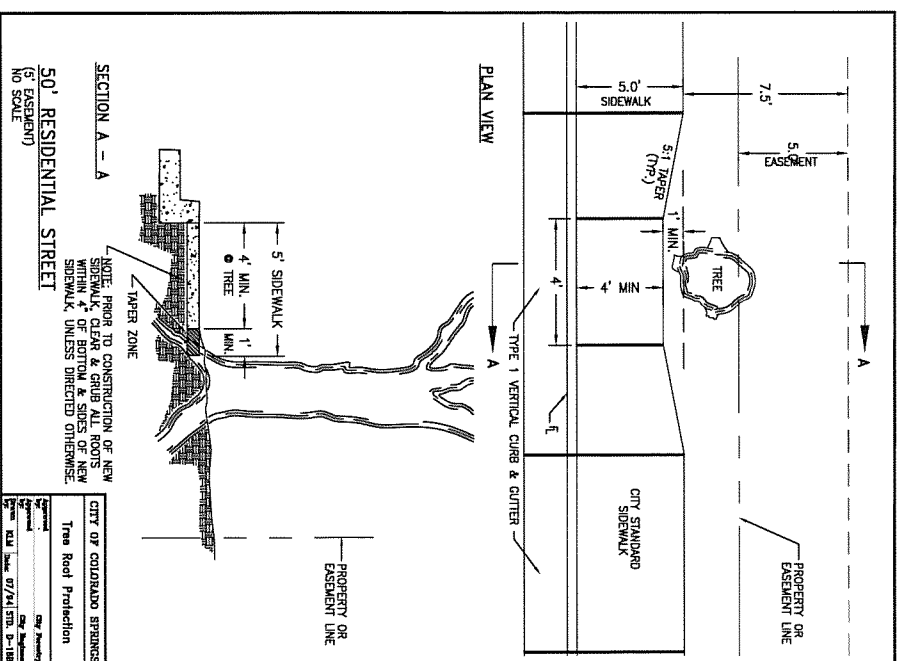
ALTERNATE PARALLEL PEDESTRIAN RAMP DETAIL (D-84)  
NOT TO SCALE



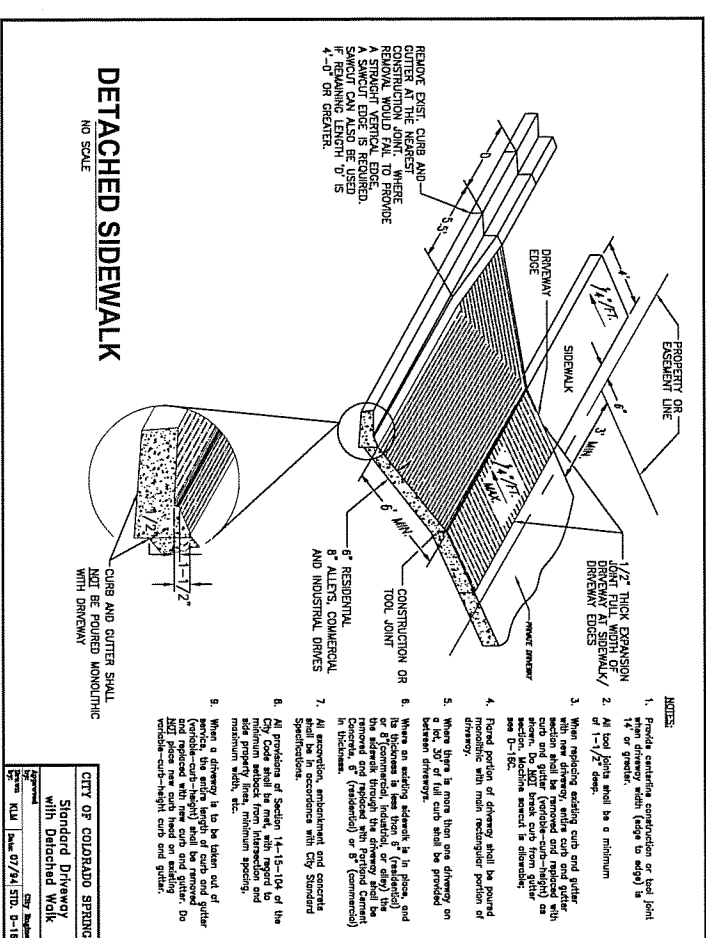
SIDEWALK TAPER SECTION AT MAILBOX DETAIL (D-18A)  
NOT TO SCALE



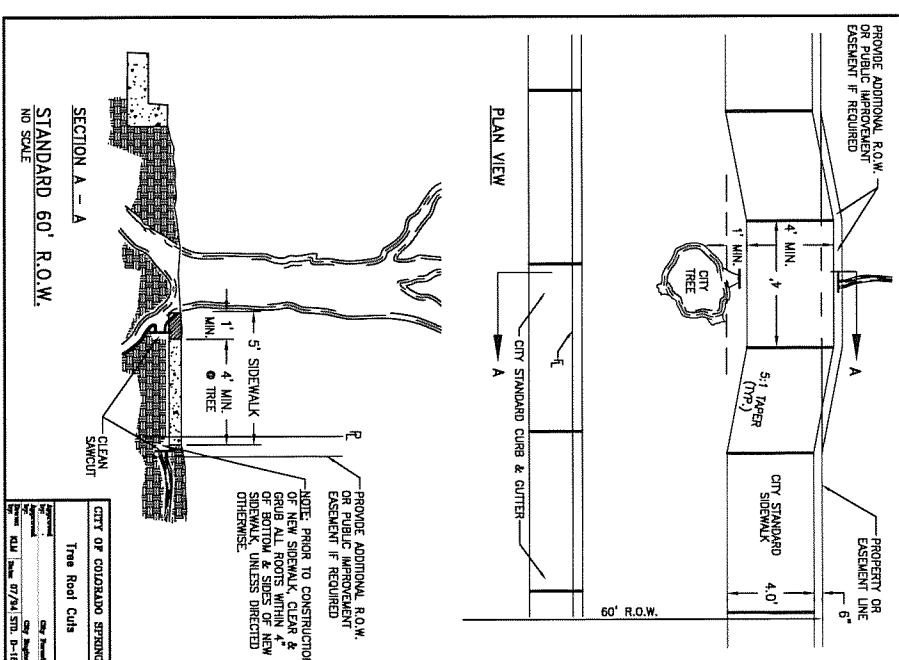
STANDARD DRIVEWAY WITH ATTACHED WALK DETAIL (D-16A)  
NOT TO SCALE



TREE ROOT PROTECTION DETAIL (D-18B)  
NOT TO SCALE



STANDARD DRIVEWAY WITH DETACHED WALK DETAIL (D-16B)  
NOT TO SCALE



TREE ROOT CUTS DETAIL (D-18C)  
NOT TO SCALE