

CITY OF COLORADO SPRINGS EL PASO COUNTY, COLORADO

CONSTRUCTION BID PLANS FOR PROPOSED
SAFE ROUTES TO SCHOOL 2016 PROJECT: SAR M240-143
MIDLAND ELEMENTARY SCHOOL AND BROADWAY AVENUE
INTERSECTION PEDESTIAN IMPROVEMENTS
PROJECT CODE: 19251



PROJECT DRAWING LIST		
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CIVIL SHEETS		
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13	C500	CITY STANDARD DETAILS
14	C501	CITY STANDARD DETAILS

REVIEWED BY:

CITY ENGINEERING
BY: _____ DATE: _____

CITY TRAFFIC ENGINEERING
BY: _____ DATE: _____

CITY STREETS DIVISION
BY: _____ DATE: _____

COLORADO SPRINGS UTILITIES - WASTEWATER
BY: _____ DATE: _____

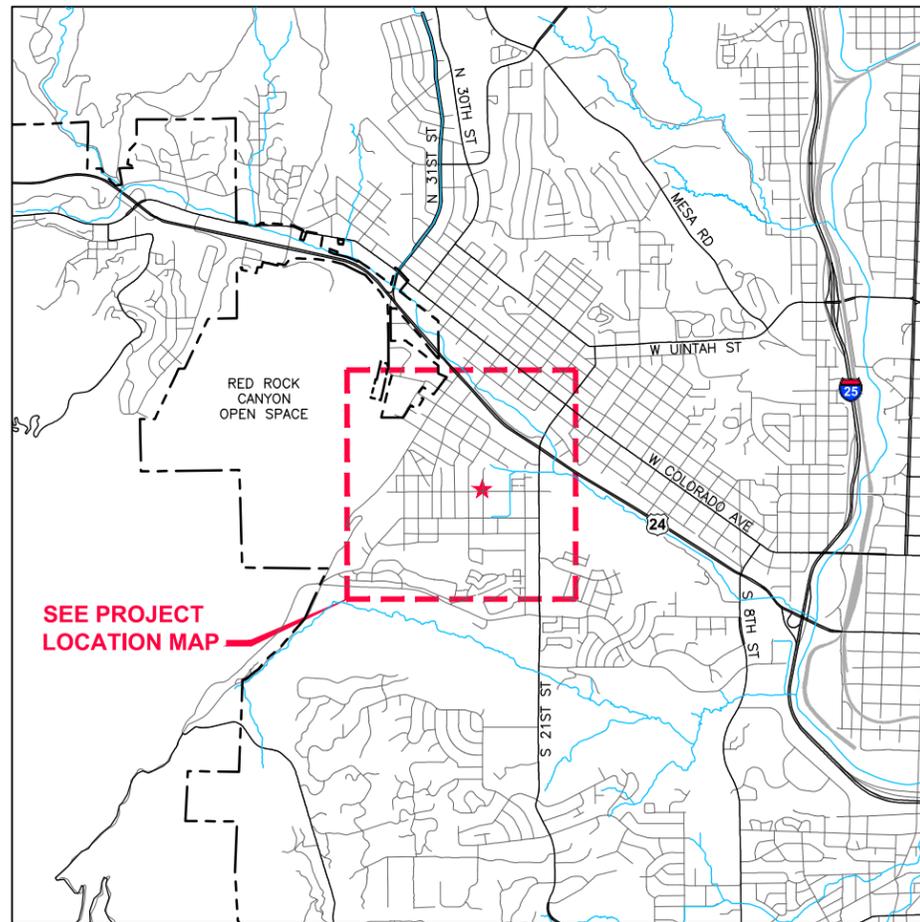
COLORADO SPRINGS UTILITIES - WATER
BY: _____ DATE: _____

COLORADO SPRINGS UTILITIES - GAS
BY: _____ DATE: _____

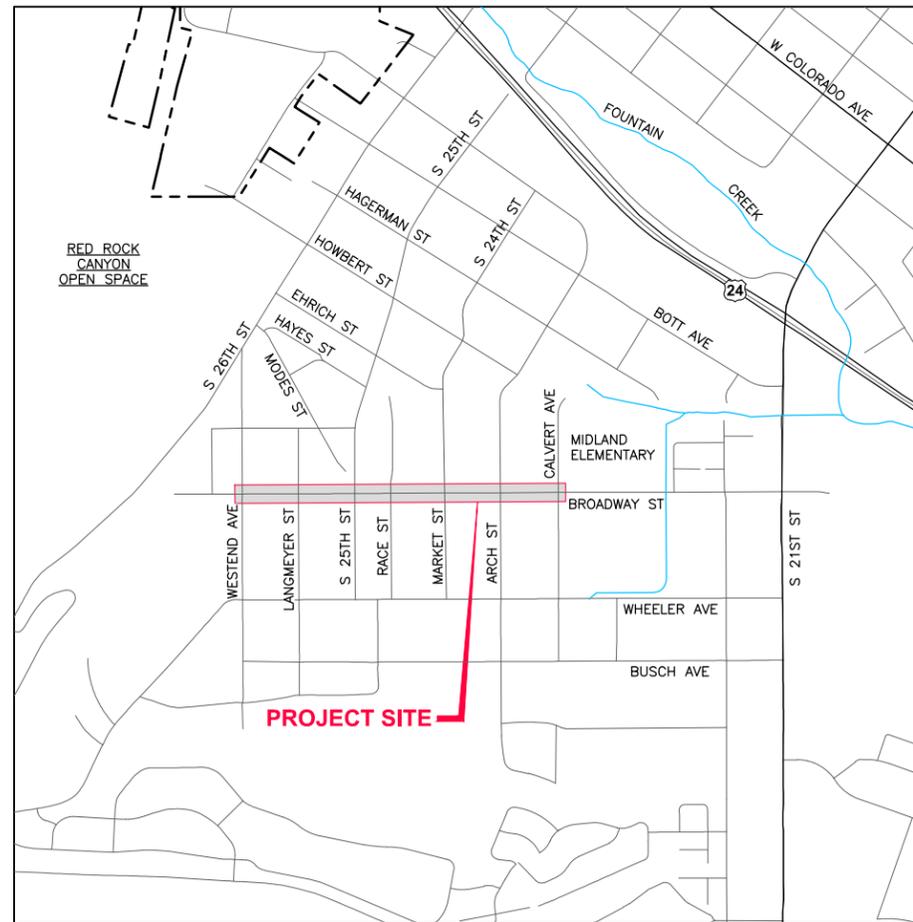
COLORADO SPRINGS UTILITIES - ELECTRIC
BY: _____ DATE: _____

CENTURY LINK COMMUNICATIONS
BY: _____ DATE: _____

COMCAST CABLE
BY: _____ DATE: _____



VICINITY MAP
SCALE: NOT TO SCALE



PROJECT LOCATION MAP
SCALE: NOT TO SCALE



CITY OF COLORADO SPRINGS
PUBLIC WORKS / CITY ENGINEERING
PO BOX 1575, MAIL CODE 410
30 S. NEVADA AVE., SUITE 401
COLORADO SPRINGS, CO 80903

CAPITAL IMPROVEMENT PROGRAM
SRTS BROADWAY AVENUE/
MIDLAND ELEMENTARY
PEDESTRIAN IMPROVEMENTS
COVER SHEET

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Drawings: \\D:\P02-ADSS\SSO\PROJECTS\2014 PROJECTS\2014-032 MIDLAND ELEMENTARY\MIDLAND DESIGN\03-DESIGN\B-SHEET_FILES\00G000.DWG - Layout: 00G000-COVER SHEET
Xrefs: 00C-BD-222334_VERT.DWG 00G-BD-VICM-COVER.DWG - Images:

CIVIL SYMBOLOLOGY

SYMBOL OR LINETYPE	DESCRIPTION	SYMBOL OR LINETYPE	DESCRIPTION
	5255 HORIZONTAL CONTROL LOCATION AND CALLOUT		INUNDATED SCRUB SHRUB WETLAND
	1 CONSTRUCTION NOTE		SATURATED SCRUB SHRUB WETLAND
	B-101 SOIL BORING		PALUSTRINE EMERGENT
	TP-101 SOIL TEST PIT		RIPARIAN
	WETLAND DELINEATION SAMPLE PLOT		SALT WATER EDGE
	UTILITY POT HOLE		UPLAND UPLAND SEED MIX
	75.8 SURFACE SPOT ELEVATION		LOW GROW SEED MIX/LAWN SEED MIX
	DIRECTION OF SURFACE RUNOFF		WET NATIVE SEED MIX
	DITCH OR STREAM CENTERLINE		ASPHALT OVERLAY
	CUT SLOPE		EROSION CONTROL BLANKET OR MATT
	FILL SLOPE		CONCRETE
	CONSTRUCTION ENTRANCE		GRAVEL, DRAIN ROCK OR AGGREGATE BASE
	CONSTRUCTION STAGING AREA		SANDBAG REVETMENT
	PERMANENT EASEMENT		DEMOLITION
	TEMPORARY OR CONSTRUCTION EASEMENT		CRUSHED GRAVEL SURFACING
	PROPERTY LINES		MH 29 SANITARY SEWER MANHOLE
	RIGHT OF WAY LINES		SS SANITARY SEWER PIPELINE
	RIGHT OF WAY CENTERLINE		CB CATCH BASIN
	BARBED WIRE OR CHAINLINK FENCE		CATCH BASIN INSERT
	SILT FENCE		CULVERT
	CONSTRUCTION HIGH VISIBILITY FENCE		SD STORM DRAIN PIPELINE
	TREE PROTECTION FENCING		W WATER PIPE CENTERLINE
	100 YEAR FLOOD BOUNDARY		W WATER PIPE STATIONING AND TICKS
	GUARDRAIL		W WATER PIPE SINGLE LINE
	PROFILE FINAL GRADE SURFACE		W WATER PIPE DOUBLE LINE
	PROFILE EXISTING GRADE SURFACE		ISOLATION VALVE
	MAJOR CONTOURS AND LABELS		TRENCH PLUGS
	MINOR CONTOURS		BLIND FLANGE
	WETLAND BOUNDARY AND HATCHING		PLUG VALVE
	CONSTRUCTION LIMIT		ACCESS & VAULT CHAMBER
	WETLAND BUFFER		CP ## CATHODIC PROTECTION TEST STATION
	MEAN HIGH WATER		CHANGE IN PIPING MATERIAL
	EDGE OF PAVEMENT		TRENCH BACKFILL AND SURFACE RESTORATION
	SHORELINE JURISDICTION		
	STREAM BUFFER		
	ORDINARY HIGH WATER		
	VEGETATION LINE		
	CONIFER TREE		
	DECIDUOUS TREE		

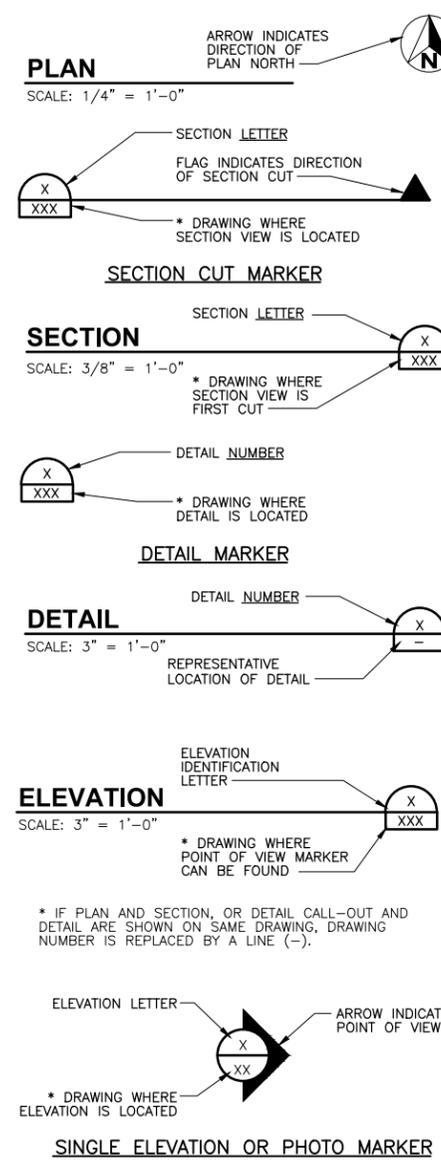
EXISTING CIVIL SYMBOLOLOGY

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	MONUMENT		GTP GATE POST
	MONUMENT IN CASE		MB MAIL BOX
	REBAR & CAP		CONIFEROUS TREE
	SCRIBED "X"		DECIDUOUS TREE
	PK NAIL		TEST HOLE (WITH FIELD IDENTIFIER)
	METAL SIGN POST		YARD LIGHT OR LUMINAIRE W/NO MAST
	WOOD SIGN POST		GRATE INLET
	SANITARY SEWER MANHOLE		CPEP CORRUGATED POLYETHYLENE PIPE
	STORM DRAIN MANHOLE		RCP REINFORCED CONCRETE PIPE
	CATCH BASIN		CIP CAST IRON PIPE
	WM WATER METER		CMP CORRUGATED METAL PIPE
	GAS VALVE		DIP DUCTILE IRON PIPE
	TR TRAFFIC JUNCTION BOX		WATER MANHOLE
	EL ELECTRICAL JUNCTION BOX		WATER VALVE
	PM POWER METER		FIRE HYDRANT
	TC TELECOMMUNICATION JUNCTION BOX		
	CT CABLE TV JUNCTION BOX	LINETYPE	DESCRIPTION
	JUNCTION BOX		G GENERIC GAS LINE
	P POWER VAULT		IRR IRRIGATION
	TELECOMMUNICATION RISER		SD STORM DRAIN
	UTILITY POLE		SS SANITARY SEWER
	UTILITY POLE W/CONDUITS TO UNDERGROUND		FM FORCEMAIN
	GUY ANCHOR		W GENERIC WATER LINE
	GUY POLE		UGE UNDERGROUND POWER
	TRAFFIC SIGNAL POLE W/ LUMINAIRE		UGF UNDERGROUND FIBER OPTIC
	LUMINAIRE (SINGLE FIXTURE)		UGT UNDERGROUND TELEPHONE
	LUMINAIRE (SINGLE FIXTURE) W/CONDUITS TO UNDERGROUND		UGTV UNDERGROUND TELEVISION
			OHP OVERHEAD POWER
			OHF OVERHEAD FIBER OPTIC
			OHT OVERHEAD TELEPHONE
			OHTV OVERHEAD TELEVISION
			-20 MAJOR CONTOUR
			-21 MINOR CONTOUR

GENERAL NOTES:

- THIS IS A STANDARD DRAWING SHOWING COMMON SYMBOLOLOGY. ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.
- SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH DRAWING FOR USAGE.

GENERAL SYMBOLOLOGY



IDENTIFICATION SYMBOLOLOGY

FILE TYPE DESIGNATIONS (1ST TWO DIGITS)

- 00 GENERAL
- 01 CIVIL DESIGN (ROADWAY AND PEDESTRIAN IMPROVEMENTS)

DRAWING DISCIPLINE ABBREVIATIONS (1ST LETTER)

- G GENERAL
- C CIVIL AND SURVEY

DRAWING SERIES DESIGNATIONS (2ND THREE DIGITS)

- 000 SURVEY CONTROL PLANS
- 100 DEMOLITION OR REMOVAL PLANS
- 200 ROADWAY PLANS OR PLAN AND PROFILES
- 300 DRAINAGE AND GRADING PLAN AND PROFILES
- 400 ENLARGED PLAN, SECTIONS AND DETAILS
- 500 STANDARD DETAILS

ABBREVIATIONS

ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
APPROX	APPROXIMATE OR APPROXIMATELY
BCR	BEGIN CURB RADIUS
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION
C/L	CENTERLINE
CLR	CLEARANCE
CONC	CONCRETE
DWG	DRAWING
DR	DRIVE
EA	EACH
ECR	END CURB RADIUS
ELEV OR EL	ELEVATION
ESMT	EASEMENT
EW	EACH WAY
EX OR EXIST	EXISTING
FL	FLOWLINE
FT	FOOT/FEET
HBP	HOT BITUMINOUS PAVEMENT
HCL	HORIZONTAL CONTROL LINE
K	VERTICAL CURVE RATIO
LT	LEFT
MAX	MAXIMUM
MIN	MINIMUM
MUTCD	MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
NTS	NOT TO SCALE
PC	POINT OF CURVATURE
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
P/L	PROPERTY LINE
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVE OR POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVT	POINT OF VERTICAL TANGENT
RAD	RADIUS, OR CENTER OF RADIUS
ROW	RIGHT-OF-WAY
RT	RIGHT
ST	STREET
STA	STATION
STD	CITY OF COLORADO SPRINGS STANDARD SPECIFICATION
SW OR S/W	SIDEWALK
TBC	TOP BACK OF CURB
TYP	TYPICAL
TER	TERRACE
WWF	WELDED WIRE FABRIC

MISC. ABBREVIATIONS

- @ AT
- ∅ PHASE, DIAMETER
- & AND
- ' FEET, MINUTES
- " INCHES, SECONDS
- ° DEGREE
- # NUMBER
- ⊂ CENTERLINE

GENERAL NOTES:

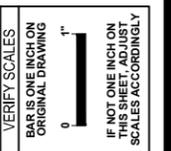
- THESE ABBREVIATIONS APPLY TO THE ENTIRE SET OF CONTRACT DRAWINGS.
- LISTING OF ABBREVIATIONS DOES NOT IMPLY THAT ALL ABBREVIATIONS ARE USED IN THE CONTRACT DRAWINGS.
- ABBREVIATIONS SHOWN ON THIS SHEET INCLUDE VARIATIONS OF A WORD. FOR EXAMPLE, "MOD" MAY MEAN MODIFY OR MODIFICATION; "INC" MAY MEAN INCLUDED OR INCLUDING AND "REINF" MAY MEAN EITHER REINFORCE OR REINFORCING.



**CAPITAL IMPROVEMENT PROGRAM
SRTS BROADWAY AVENUE/
MIDLAND ELEMENTARY
PEDESTRIAN IMPROVEMENTS
LEGEND AND ABBREVIATIONS**

SCALE	HORZ: - VERT: -
FILENAME	00G001.dwg
SHEET	G001
	2 OF 14 SHEETS

DATE	BY	NO.	REVISION



**CITY OF COLORADO SPRINGS
PUBLIC WORKS / CITY ENGINEERING
PO BOX 1575, MAIL CODE 410
30 S. NEVADA AVE., SUITE 401
COLORADO SPRINGS, CO 80903**

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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GENERAL NOTES:

- 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, CDOT STANDARD SPECIFICATIONS, LATEST REVISION.
- 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 (O.S.H.A.).
- NO FIELD CHANGES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE PROJECT ENGINEER.
- SUBMITTALS SHALL BE MADE FOR ALL MATERIALS TO BE INCORPORATED INTO THIS PROJECT.
- UTILITY LINES ARE SHOWN ON THE PLAN SHEETS ARE PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION AND PROTECTION OF ALL UTILITIES IN PLACE.
- 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.
- 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 CITY OF COLORADO SPRINGS. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UTILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE ALL UTILITY RELOCATIONS AS NECESSARY. THE CITY ENGINEERING INSPECTIONS AND UTILITY DEPARTMENTS SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WHERE THESE DEPARTMENTS MAY BE AFFECTED.
- THE CONTRACTOR SHALL NOTIFY THE GAS DIVISION INSPECTOR (636-5736) AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION NEAR ANY GAS FACILITIES. THE GAS DIVISION WILL RELOCATE THE GAS SERVICES REQUIRED ON AN AS NEEDED BASIS.
- 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.
- 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.
- THE CONTRACTOR SHALL OBTAIN AN APPROVED TRAFFIC CONTROL PLAN PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
- THE PHYSICAL FEATURES WITHIN THE LIMITS OF THE PROJECT HAVE BEEN SHOWN BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN. THE ENGINEERING ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE FEATURES SHOWN. THE CONTRACTOR SHALL REVIEW AND VERIFY EXISTING PHYSICAL FEATURES AND ELEVATIONS AND INFORM THEMSELVES OF THE CONDITIONS TO BE ENCOUNTERED DURING THE CONSTRUCTION.
- 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.
- ALL CONSTRUCTION IS TO INCLUDE COMPACTION AND FINISH GRADING IN THE UNIT PRICE OF RELATED WORK ITEM.
- ALL WORK SHALL BE DONE TO THE LINES, GRADES, SECTIONS, AND ELEVATIONS SHOWN ON THE PLANS UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER.
- ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE CITY OF COLORADO SPRINGS AND THE ENGINEER.
- THE ENGINEER SHALL BE NOTIFIED WITHIN 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
- PAYMENT, DIMENSIONS AND RADII ARE SHOWN TO THE FLOWLINE UNLESS OTHERWISE NOTED.
- 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.
- THE CONTRACTOR SHALL NOT REMOVE AND SHALL PROTECT FROM DAMAGE ALL TREES, BUSHES, AND EXISTING IMPROVEMENTS INSIDE AND OUTSIDE OF THE LIMITS OF WORK. SPECIFIC PROVISIONS ARE SHOWN ON THE PLANS.
- NO TREES SHALL BE REMOVED OR TRIMMED WITHOUT PRIOR ACKNOWLEDGMENT OF THE PROPERTY OWNER AND/OR PROJECT ENGINEER.
- THE CONTRACTOR SHALL PROTECT THE EXISTING DRAINAGE STRUCTURES AND REROUTE ANY RUNOFF AS NECESSARY DURING CONSTRUCTION ACTIVITIES TO PREVENT EROSION AND DAMAGE.
- THE CONTRACTOR SHALL PROVIDE SAFE PEDESTRIAN ACCESS AT ALL TIMES DURING THE PROJECT.

- THE CONTRACTOR SHALL CLOSELY MONITOR ACCESS FOR HEAVY CONSTRUCTION EQUIPMENT THROUGH THE PROJECT AND RESIDENTIAL AREAS.
- 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.
- 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. DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF ONE PART EMULSIFIED ASPHALT AND ONE PART WATER.
- WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. LOCATION SHALL BE AS ORDERED. THE COST OF WATER SHALL BE INCIDENTAL TO OTHER BID ITEMS.
- THE PHYSICAL FEATURES REQUIRING REMOVAL OR OBLITERATION WITHIN THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND ASPHALT BE DISPOSED OF OFF-SITE. THE EXCEPTION IS TRAFFIC CONTROL DEVICES, WHICH SHALL BE SALVAGED FOR CITY MAINTENANCE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING ANY MONUMENT, RANGE POINTS, TIES, BENCHMARKS AND/OR SURVEY CONTROL POINTS WHICH MAYBE DISTURBED OR DESTROYED BY CONSTRUCTION. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENT BY A REGISTERED PROFESSIONAL LAND SURVEYOR AUTHORIZED TO PRACTICE LAND SURVEYING IN THE STATE OF COLORADO.
- THE CONTRACTOR SHALL HAVE A COPY OF ALL APPLICABLE STANDARDS ON SITE FOR THE DURATION OF THE PROJECT.
- THE CONTRACTOR SHALL NOT STOCKPILE MATERIAL WITHIN 10 FT. OF THE EDGE OF THE TRAVELED WAY.
- THE FOLLOWING SHALL BE FURNISHED WITH EACH BITUMINOUS PAVEMENT. THIS DEVICE SHALL BE USED ON ALL PASSES AND LIFTS OF BITUMINOUS PAVEMENT PLACE
 - A SKI TYPE DEVICE AT LEAST 30 FEET IN LENGTH.
 - SHORT SKI OR OR SHOE.
 - CONTROL LINE AND STAKES, SUFFICIENT FOR EACH PHASE OF THE PROJECT.
- ANY LAYER OF BITUMINOUS PAVEMENT THAT IS TO HAVE SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED FULL WIDTH BEFORE SUCCEEDING LAYER IS PLACE.
- 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.
- A TACK COAT OF EMULSIFIED ASPHALT (SLOW SETTING) IS TO BE APPLIED BETWEEN PAVEMENT COARSE TO IMPROVEMENT BOND. DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF 1 PART EMULSIFIED ASPHALT AND 1 PART WATER.
- STORM INLET STATIONING AND ELEVATION REFERENCE TOP FRONT MIDDLE OF BOX. STORM MANHOLE STATIONING REFERENCE CENTER OF MANHOLE.
- 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.
- 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.
- 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 PIPELINE INSPECTION SECTION (638-5654) TWO WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION. IF THIS PROJECT INVOLVES A TAP, DO NOT CALL TO SCHEDULE TAP UNTIL THE PIPELINE INSPECTION NOTIFICATION. INSPECTION REQUIRED AFTER WORKING HOUR MUST BE COORDINATED WITH THE PIPELINE INSPECTOR IN ADVANCE AND WILL BE SUBJECT TO OVER TIME CHARGES PER W.R.D. SPECIFICATIONS.
- 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 DISRUPTION SHALL BE DONE TO MINIMIZE THE EFFECTS ON COLORADO SPRING UTILITIES CUSTOMERS. SHOULD A WATER MAIN FAIL AS A RESULT OF THE CONTRACTOR'S OPERATIONS, IT WILL BE REPAIRED IMMEDIATE. EITHER THE CONTRACTOR OR THE WATER RESOURCES DEPARTMENT AT THE FULL COST OF LABOR AND MATERIALS TO THE CONTRACTOR.
- 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.
- REFER TO PROJECT MANUAL FOR PAY ITEM DESCRIPTIONS AND MEASUREMENT. ALL WORK WITHOUT A SPECIFIC BID ITEM IS INCIDENTAL TO OTHER PAY ITEMS.

EARTHWORK:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LEGAL DISPOSAL OF ANY EXCESS SOIL, DEBRIS AND WASTE MATERIAL OFF OF THE PROJECT SITE.
- ANY SOIL LYING BELOW THE SUBGRADE ELEVATION WHICH IS DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE REMOVED AND REPLACED WITH STRUCTURAL FILL IN ACCORDANCE WITH SPECIFICATION REQUIREMENTS.
- 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:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION STAKING OF BOTH HORIZONTAL AND VERTICAL LAYOUT ON THIS PROJECT. COORDINATES ARE REFERENCED IN THE COORDINATE LIST SHOWN ON THESE PLANS. THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT ENGINEER FOR INTERPRETATION AND INFORMATION IN STAKING OF THE PROJECT FOR CONSTRUCTION.
- A TEMPORARY BENCHMARK HAS BEEN ESTABLISHED FOR THIS PROJECT UNLESS OTHERWISE NOTED.
- PRIOR TO PROJECT COMPLETION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY PROPERTY MONUMENTATION DISTURBED OR REMOVED BY CONSTRUCTION OPERATIONS. THIS WORK SHALL BE PERFORMED BY A LAND SURVEYOR LICENSED IN THE STATE OF COLORADO. PROPERTY CORNERS WHICH FALL WITHIN NEW CONCRETE FLATWORK SHALL BE DURABLE AND SET FLUSH. THIS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

TRAFFIC GENERAL NOTES:

- BEFORE EXCAVATING, CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MONUMENTATION AND/OR BENCHMARKS WHICH WILL BE DISTURBED OR DESTROYED BY CONSTRUCTION. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENTATION BY A REGISTERED CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING.
- APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
- THE APPROVAL OF THESE PLANS OR 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 POLICIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NEW, TEMPORARY AND EXISTING TRAFFIC SIGNS FROM THE START OF THE CONSTRUCTION PROJECT UNTIL ACCEPTANCE BY CITY TRAFFIC ENGINEERING.
- ALL TRAFFIC SIGNS, PAVEMENT MARKINGS, AND TRAFFIC SIGNALS SHALL MEET OR EXCEED M.U.T.C.D. STANDARDS.
- 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.
- CONTRACTOR SHALL PREPARE 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", MUTCD SUPPLEMENT FOR THE CITY OF COLORADO SPRINGS, AUGUST 1992.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NEW, TEMPORARY AND EXISTING TRAFFIC SIGNAL MODIFICATIONS.

STRIPING AND SIGNAGE GENERAL NOTES:

- THE CONTRACTOR SHALL LEVEL ALL DISTURBED AREAS WITH TOPSOIL AND HAND-RAKE TO A UNIFORM APPEARANCE. THE AREA SHALL BE SEEDDED WITH PROTECTIVE STRAW MAT COVER DURING WINTER MONTHS OR SODDED ALL OTHER TIMES. THIS WORK IS TO BE CONSIDERED AN INCIDENTAL ITEM. INSTALLATION OF ALL STRIPING, SIGNS AND PAVEMENT MARKERS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVAL OF EXISTING PAVEMENT MARKINGS (SCARRING OF PAVEMENT IS NOT PERMITTED). AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OVERLAYING OR CHIP SEALING ROADWAY, IF SCARRING OCCURS DURING REMOVAL OF EXISTING OR TEMPORARY PAVEMENT MARKINGS. THE CITY TRAFFIC ENGINEER WILL DETERMINE METHOD OF PAVEMENT REPAIR.
- ALL STRIPING AND SIGNING SHALL CONFORM TO THE MOST RECENT ADOPTED EDITION OF THE FOLLOWING MANUALS AND THEIR SUPPLEMENTAL AMENDMENTS:
 - MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
 - CITY OF COLORADO SPRINGS SIGNS AND MARKING GUIDELINES
 - CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS
 - CITY OF COLORADO SPRINGS PUBLIC WORKS DESIGN MANUAL
- ALL SIGNING AND STRIPING IS SUBJECT TO THE APPROVAL OF THE CITY TRAFFIC ENGINEER PRIOR TO INSTALLATION AND/OR REMOVAL.
- 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.
- 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.
- ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM OF HIGH INTENSITY GRADE SHEETING.
- 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.
- 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.
- STRIPED CROSSWALKS SHALL HAVE AN INSIDE DIMENSION OF 10 FEET AND CONTINENTAL CROSSWALKS SHALL HAVE A MINIMUM WIDTH OF 9 FEET UNLESS INDICATED OTHERWISE.
- 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.
- ALL LONGITUDINAL LINES SHALL BE A MINIMUM OF 15MIL THICKNESS EPOXY.
- CONTRACTOR TO DELIVER ALL REMOVED SIGNS TO THE CITY OF COLORADO SPRINGS SIGNS/MARKINGS SHOP AT 404 FONTANERO STREET, (719) 578-6721.
- 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:

- THE CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL REMOVE ALL SEDIMENTS, MUD, AND CONSTRUCTION DEBRIS THAT MAY ACCUMULATE IN THE FLOWLINES AND PUBLIC RIGHTS OF WAY AS A RESULT OF THIS CONSTRUCTION PROJECT. SAID REMOVAL SHALL BE CONDUCTED IN A TIMELY MANNER.
- 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.
- 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 SAID 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.
- THE CONTRACTOR MUST KEEP ALL POLLUTANTS, INCLUDING TRENCH BACKFILL MATERIAL, FROM WASHING INTO THE STORM SEWER SYSTEM.
- 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.
- THE CONTRACTOR SHALL LEVEL ALL DISTURBED AREAS WITH TOPSOIL AND HAND-RAKE TO A UNIFORM APPEARANCE. THE AREA SHALL BE SEEDDED WITH PROTECTIVE STRAW MAT COVER DURING WINTER MONTHS OR SODDED ALL OTHER TIMES. THIS WORK IS TO BE CONSIDERED AN INCIDENTAL ITEM.

GENERAL CONSTRUCTION NOTES:

- PAY ITEMS LISTED IN THE BID SCHEDULE ARE THE ONLY PAY ITEMS FOR THE PROJECT. ANY OTHER ITEMS NECESSARY FOR A COMPLETE PROJECT, BUT NOT SHOWN IN THE BID SCHEDULE SHALL BE CONSIDERED AN INCIDENTAL ITEM AND IT'S COST TO 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.
- 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, SUBCONTRACTOR OR AS APPROVED BY THE CITY ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO COMMENCING WORK IN THE PROJECT AREA. LIKEWISE, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK AND THAT OF THE INVOLVED UTILITIES IN THE PROJECT AREA.
- 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 FOR THE PROJECT AREA, DURING THE CONSTRUCTION PERIOD. THIS WORK SHALL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEM.
- 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, IT WILL BE ASSUMED THAT THEY WERE IN GOOD CONDITION AT THE TIME OF REMOVAL. ANY SIGNS DAMAGED OR LOST BY THE CONTRACTOR SHALL BE REPLACED 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).
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL DRIVEWAY CLOSINGS WITH THE RESPECTIVE PROPERTY OWNERS AND TENANTS, IF PROPERTY IS RENTED. EXISTING CONCRETE DRIVES SHALL BE REPLACED PER CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS.
- PROPERTY OWNERS WILL BE NOTIFIED BY THE CITY, PRIOR TO CONSTRUCTION, THAT IT WILL BE THE OWNER'S RESPONSIBILITY TO REMOVE TREES, SHRUBS OR OTHER PROPERTY WHICH THEY INTEND TO KEEP. IF THE ITEMS ARE NOT REMOVED AT THE TIME OF CONSTRUCTION AND ARE WITHIN THE PROPOSED SIDEWALK CONSTRUCTION AREA, THE MISC. ITEMS AND/OR VEGETATION REMOVED SHALL BE PLACED ON THE PROPERTY OWNER'S LAND OR DISPOSED OF OFFSITE AS DIRECTED 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.
- THE CONTRACTOR SHALL TAKE SPECIAL CARE NOT TO DAMAGE TREES AND SHRUBS UNLESS SO DIRECTED BY THE PROJECT ENGINEER.
- 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.
- ANY SURPLUS 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SURVEYING AND CONSTRUCTION STAKING FOR THE PROJECT. ALL GRADING AND SURFACING SHALL BE IN ACCORDANCE WITH THE PLAN SHEETS AND THE CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS.
- 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.
- 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.

DATE				
BY				
NO. REVISION				
PROJECT MANAGER	M. CHAVES	DESIGNED BY	M. CHAVES	
		DRAWN BY	M. NAGAMATSU	
		CHECKED BY	M. CHAVES	
		PROJECT NUMBER	2014-032	

VERIFY SCALES
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 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



CITY OF COLORADO SPRINGS
 PUBLIC WORKS / CITY ENGINEERING
 PO BOX 1575, MAIL CODE 410
 30 S. NEVADA AVE., SUITE 401
 COLORADO SPRINGS, CO 80903

CAPITAL IMPROVEMENT PROGRAM
SRTS BROADWAY AVENUE/
MIDLAND ELEMENTARY

PEDESTRIAN IMPROVEMENTS
GENERAL NOTES

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SHEET	G002

3 OF 14 SHEETS

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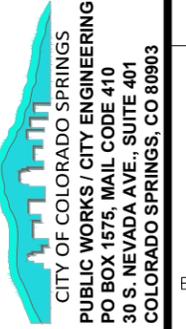
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 Xrefs: 000-BD-22234_VERT.DWG - Images:

SUMMARY OF QUANTITIES			
2014 SAFE ROUTES TO SCHOOL 2014 – BROADWAY AVENUE/MIDLAND ELEMENTARY PEDESTRIAN IMPROVEMENTS			
ITEM NO.	DESCRIPTION	ESTIMATE QUANTITY	UNITS
630-00000	MOBILIZATION	1	LS
201-00000	CLEARING AND GRUBBING/SITE RESTORATION/TREE TRIMMING	1	LS
625-00000	CONSTRUCTION SURVEYING	1	LS
208-00220	EROSION CONTROL	1	LS
630-10005	WORK ZONE TRAFFIC CONTROL	1	LS
212-01200	LANDSCAPE RESTORATION	1	LS
202-00220	REMOVAL OF (EXISTING) ASPHALT	5500	SF
202-00203	REMOVAL OF (EXISTING) CONCRETE CURB AND GUTTER	801	LF
202-00200	REMOVAL OF (EXISTING) CONCRETE SIDEWALK AND PED. RAMP	1090	SF
202-00210	REMOVE (EXISTING) CROSS PAN	413	SF
202-00090	REMOVE DELINEATOR	1	LS
403-33842	ASPHALT PATCHING (GRADING S) (6 INCH)	220	SY
412-00400	CONCRETE SIDEWALK (4" DEPTH)	6152	SF
608-00010	CONCRETE PEDESTRIAN RAMP	1200	SF
412-00400	CONCRETE FLATWORK (4" THICK) (⊙ CALVERT AND BROADWAY)	2900	SF
609-21010	CITY OF COLORADO SPRINGS CONCRETE CURB AND GUTTER, TYPE 1	1000	LF
412-00815	D-16A CONCRETE DRIVEWAY 8" THICK (REINFORCING)	1025	SF
412-00600	D-16A CONCRETE DRIVEWAY 6" THICK	1275	SF
210-00810	INSTALL TRAFFIC SIGN POST	5	SF
210-00815	INSTALL TRAFFIC SIGN PANEL	18	SF
627-00002	PREFORMED THERMOPLASTIC PAVEMENT MARKINGS- STOP BAR	200	SF
627-00002	PREFORMED THERMOPLASTIC PAVEMENT MARKINGS-CROSS WALK STRIPING	1500	SF
630-00000	SIDEWALK CHASE	50	LF

QUANTITIES LEGEND:

- CY = CUBIC YARDS
- SF = SQUARE FEET
- SY = SQUARE YARDS
- LF = LINEAL FEET
- EA = EACH
- LB = POUNDS
- LS = LUMP SUM

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**CAPITAL IMPROVEMENT PROGRAM
 SRTS BROADWAY AVENUE/
 MIDLAND ELEMENTARY
 PEDESTRIAN IMPROVEMENTS
 SUMMARY OF QUANTITIES**

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 VERT: -
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 SHEET
G003
 4 OF 14 SHEETS

PROJECT NUMBER	2014-032
CHECKED BY	M. CHAVES
DRAWN BY	M. NAGAMATSU
DESIGNED BY	M. CHAVES
PROJECT MANAGER	M. CHAVES
NO. REVISION	
BY	
DATE	

SITE DESCRIPTION:

FOR INFORMATION ONLY TO FULFILL THE CDPS-SCP (COLORADO DISCHARGE PERMIT SYSTEM - STORMWATER CONSTRUCTION PERMIT) UPDATE TO REFLECT CURRENT PROJECT SITE CONDITIONS.

STRUCTURAL AND NONSTRUCTURAL BMPs THAT MAY BE POTENTIALLY USED ON THE PROJECT FOR EROSION AND SEDIMENT CONTROL; PRACTICES MAY INCLUDE, BUT ARE NOT LIMITED TO:

STRUCTURAL BMPs AND APPLICATION	NARRATIVE	BMP AS DESIGNED	IN USE ON SITE	FIRST CONSTRUCTION ACTIVITIES	DURING CONSTRUCTION	INTERIM/FINAL STABILIZATION
SILT FENCE/SEDIMENT CONTROL	PLACED ON CONTOUR TO CONTAIN CONSTRUCTION RUNOFF	X		X	X	
STORM DRAIN INLET PROTECTION/SEDIMENT CONTROL	PLACED TO PROTECT STORM DRAIN INLETS TO FILTER OR PREVENT SEDIMENT FROM ENTERING DRAINAGE SYSTEM.	X		X	X	X
EROSION LOGS	PLACED ALONG EDGE OF THE PAVEMENT NEAR THE XXXXX.	X		X	X	X
VEHICLE TRACKING PAD/CONSTRUCTION CONTROL	PLACED TO PREVENT TRACKING OF SEDIMENT FROM DISTURBANCE TO OFFSITE SURFACE.	X		X	X	

NON STRUCTURAL BMPs AND APPLICATION	NARRATIVE	BMP AS DESIGNED	IN USE ON SITE	FIRST CONSTRUCTION ACTIVITIES	DURING CONSTRUCTION	INTERIM/FINAL STABILIZATION
SEEDING PERMANENT/FINAL STABILIZATION	REDUCE RUNOFF AND CONTROL EROSION ON DISTURBED AREAS.	X			X	X

- A. **PROJECT SITE DESCRIPTION:** INSTALLATION OF MISSING CURB & GUTTER, CROSS PANS, CURB RETURNS, DRIVE APRONS AND SIDEWALK ALONG THE SOUTH SIDES OF A 6 BLOCK DISTANCE OF BROADWAY AVENUE FROM WESTEND AVE TO CALVERT AVE; ALSO TO INCLUDE THE INSTALLATION OF A CATCH BASIN IN PLACE OF AN EXISTING OPEN RCP STORMWATER INTAKE. ROADWAY TRAVEL LANES TO REMAIN UNDISTURBED. POLES AND HYDRANTS TO BE RELOCATED BEHIND ADJACENT SIDEWALK.
- B. **PROPOSED SEQUENCING FOR MAJOR ACTIVITIES:** THE CONTRACTOR SHALL COMMENCE WORK ON THE AREAS OF MISSING CURB & GUTTER, CROSS PANS, CURB RETURNS, AND SIDEWALK ALONG THE NORTH AND SOUTH SIDES OF BROADWAY AVENUE.
- C. **ACRES OF DISTURBANCE:** THE AREA TO BE DISTURBED SHALL BE LIMITED TO THE PROPOSED SIDEWALK CONSTRUCTION, CROSS PANS, AND CURB RETURNS. ANY EXISTING ASPHALT/CONCRETE SLATED FOR DEMOLITION SHALL BE DISPOSED OF OFFSITE BY THE CONTRACTOR.
 - 1. TOTAL AREA OF CONSTRUCTION SITE: 0.50 ACRES
 - 2. TOTAL AREA OF DISTURBANCE: 0.25 ACRES
 - 3. ACREAGE OF SEEDING: 0.00 ACRES
- D. **EXISTING SOIL DATA:** N/A
- E. **EXISTING VEGETATION, INCLUDING PERCENT COVER:** 3 MATURE ELM TREES WITHIN RIGHT-OF-WAY MUST BE REMOVED. EXISTING CONDITIONS TO REMAIN WITH THE EXCEPTION OF AREAS DISTURBED FOR SIDEWALK INSTALLATION
- F. **POTENTIAL POLLUTANTS SOURCES:** THE ECS SHALL PREPARE A LIST OF ALL POTENTIAL POLLUTANTS AND THEIR LOCATIONS IN ACCORDANCE WITH SUBSECTION 107.25.
- G. **RECEIVING WATER:**
 - 1. **OUTFALL LOCATIONS:** THE PLAN SHEETS INCLUDE EXISTING OUTFALL LOCATIONS. THE ULTIMATE OUTFALL IS FOUNTAIN CREEK VIA EXISTING TRIBUTARY CULVERTS, SWALES AND SHEET FLOWS FROM THE SITE.
 - 2. **NAMES OF RECEIVING WATER(S) ON SITE AND THE ULTIMATE RECEIVING WATER:** FOUNTAIN CREEK.
 - 3. **DISTANCE ULTIMATE RECEIVING WATER IS FROM PROJECT:** VARIES BETWEEN 0 TO 300 FEET.
 - 4. **DOES THE RECEIVING WATER HAVE AN APPROVED TMDL:**
- H. **ALLOWABLE NON-STORMWATER DISCHARGES:** NO DEWATER IS ANTICIPATED AT THE SITE. THERE ARE NO OTHER ANTICIPATED ALLOWABLE SOURCES OF NON-STORMWATER COMPONENTS OF THE DISCHARGE, SUCH AS UNCONTAMINATED SPRINGS, LANDSCAPE IRRIGATION RETURN FLOW, DUST SUPPRESSION AND FIREFIGHTING. IF GROUNDWATER IS ENCOUNTERED AND REQUIRED FOR THE DEMOLITION OF THE STRUCTURES, THE CONTRACTOR SHALL TAKE THE FOLLOWING MEASURES.
 - 1. **GROUNDWATER AND STORMWATER DEWATERING:** DISCHARGES TO THE GROUND OF WATER FROM CONSTRUCTION DEWATERING ACTIVITIES MAY BE AUTHORIZED PROVIDED THAT:
 - a. THE SOURCE IS GROUNDWATER AND/OR GROUNDWATER COMBINED WITH STORMWATER THAT DOES NOT CONTAIN POLLUTANTS.
 - b. THE SOURCE AND BMPs ARE IDENTIFIED IN THE SWMP.
 - c. DISCHARGES DO NOT LEAVE THE SITE AS SURFACE RUNOFF OR TO SURFACE WATERS.
 - 2. IF DISCHARGES DO NOT MEET THE ABOVE CRITERIA A SEPARATE PERMIT FROM THE DEPARTMENT OF HEALTH WILL BE REQUIRED. CONTAMINATED GROUNDWATER REQUIRING COVERAGE UNDER A SEPARATE PERMIT MAY INCLUDE GROUNDWATER CONTAMINATED WITH POLLUTANTS FROM A LANDFILL, MINING ACTIVITIES, INDUSTRIAL POLLUTANT PLUMES, UNDERGROUND STORAGE TANK, ETC.
- I. **ENVIRONMENTAL IMPACTS:**
 - 1. **WETLAND IMPACTS:** NO
 - 2. **STREAM IMPACTS:** NO
 - 3. **THREATENED AND ENDANGERED SPECIES:** NO

D. OFFSITE DRAINAGE (RUN ON WATER)

- 1. DESCRIBE AND RECORD BMPs ON THE SWMP SITE MAP THAT HAS BEEN IMPLEMENTED TO ADDRESS OFF SITE RUN-ON WATER IN ACCORDANCE WITH SUBSECTION 208.03

E. VEHICLE TRACKING PAD

- 1. BMPs SHALL BE IMPLEMENTED IN ACCORDANCE WITH SUBSECTION 208.04.

F. PERIMETER CONTROL

- 1. PERIMETER CONTROL SHALL BE ESTABLISHED AS THE FIRST ITEM ON THE SWMP TO PREVENT THE POTENTIAL FOR POLLUTANTS LEAVING THE CONSTRUCTION SITE BOUNDARIES, ENTERING THE STORMWATER DRAINAGE SYSTEM, OR DISCHARGING TO STATE WATERS.
- 2. PERIMETER CONTROL MAY CONSIST OF VEGETATION BUFFERS, BERMS, SILT FENCE, EROSION LOGS, EXISTING LANDFORMS, OR OTHER BMPs AS APPROVED.
- 3. PERIMETER CONTROL SHALL BE IN ACCORDANCE WITH SUBSECTION 208.04.

DURING CONSTRUCTION:

RESPONSIBILITIES OF THE SWMP ADMINISTRATOR/EROSION CONTROL SUPERVISOR DURING CONSTRUCTION. THE SWMP SHOULD BE CONSIDERED A "LIVING DOCUMENT" THAT IS CONTINUOUSLY REVIEWED AND MODIFIED. DURING CONSTRUCTION, FOLLOWING ITEMS SHALL BE ADDED, UPDATED, OR AMENDED AS NEEDED BY THE SWMP ADMINISTRATOR/EROSION CONTROL SUPERVISOR (ECS) IN ACCORDANCE WITH SECTION 208.

DURING CONSTRUCTION, INDICATE HOW ITEMS THAT HAVE NOT BEEN ADDRESSED DURING DESIGN ARE BEING HANDLED IN CONSTRUCTION. IF ITEMS ARE COVERED IN THE TEMPLATE OR OTHER SECTIONS OF THE SWMP NOTEBOOK INDICATE BELOW WHAT SECTION THE DISCUSSION TAKES PLACE.

- A. SAW CUTTING - SHALL BE DONE IN ACCORDANCE WITH SUBSECTION 107.25, 208.04 (F), 208.05
- B. STREET CLEANING - SHALL BE DONE IN ACCORDANCE WITH SUBSECTION 208.04 (F).

INSPECTIONS:

- A. INSPECTIONS SHALL BE DONE IN ACCORDANCE WITH SUBSECTION 208.03 (C).

BMP MAINTENANCE:

- A. MAINTENANCE SHALL BE IN ACCORDANCE WITH SUBSECTION 208.04 (F).

RECORD KEEPING:

- A. RECORDS SHALL BE KEPT IN ACCORDANCE WITH SUBSECTION 208.03 (C).

INTERIM AND FINAL STABILIZATION:

- A. LANDSCAPING ADJACENT TO SIDEWALK, CURB AND GUTTER, DRIVE APRONS, AND OTHER IMPROVEMENTS SHALL BE RESTORED TO EXISTING CONDITIONS..

PRIOR TO FINAL ACCEPTANCE:

- A. FINAL ACCEPTANCE SHALL BE ACCORDANCE WITH SUBSECTION 208.10.

TABULATION OF STORMWATER QUANTITIES:

PAY ITEM	DESCRIPTION	PAY UNIT	*QUANTITY
	EROSION CONTROL	LS	1

*ALL BMPs SHALL BE IN COMPLIANCE WITH SUBSECTION 208.03 AND 208.04 (E). ALL BMPs, WHETHER FORSEEN OR UNFORSEEN, SHALL BE COVERED UNDER THE EROSION CONTROL LINE ITEM AND SHALL BE PAID AS LUMP SUM.

SITE MAP COMPONENTS:

PRE-CONSTRUCTION

- A. **PROJECT CONSTRUCTION POTENTIAL SITE BOUNDARIES:** SEE TITLE SHEET. ALL WORK WILL BE CONTAINED WITHIN THE PUBLIC RIGHT-OF-WAY OR WITHIN PUBLIC IMPROVEMENT EASEMENTS. ALL RIGHT-OF-WAY OR EASEMENT LINES SHALL BE CONSIDERED AS CONSTRUCTION BOUNDARIES.
- B. **ALL AREAS OF GROUND SURFACE DISTURBANCE:** SEE ENCLOSED PROJECT SHEETS.
- C. **AREAS OF CUT AND FILL:** AREAS OF CUT AND FILL ARE EXCLUSIVELY LIMITED TO THE SUBGRADE PREPARATION FOR SIDEWALK, CURB & GUTTER, CROSSSPAN, DRIVE APRON AND THE CROSS SECTION OF WIDENED ROADWAY NECESSARY TO MATCH EXISTING ASPHALT AT THE SAW CUTS.
- D. **LOCATION OF ALL STRUCTURAL BMPs IDENTIFIED IN THE SWMP:** N/A
- E. **LOCATION OF NON-STRUCTURAL BMPs AS APPLICABLE IN THE SWMP:** N/A
- F. **SPRINGS, STREAMS, WETLANDS AND OTHER SURFACE WATER:** NO STREAMS, WETLANDS OR OTHER SURFACE WATER HAVE BEEN OBSERVED AT THE SITE.
- G. **PROTECTION OF TREES, SHRUBS, CULTURAL RESOURCES AND MATURE VEGETATION:** 3 VOLUNTEER MATURE ELMS MUST BE REMOVED WITHIN THE RIGHT-OF-WAY.
 - B. H. **AREAS USED FOR STORING AND STOCKPILING OF MATERIALS, STAGING AREAS (FIELD TRAILER,FUELING,ETC) AND BATCH PLANTS:** N/A

SWMP ADMINISTRATOR FOR DESIGN:

MIKE CHAVES, P.E., CITY OF COLORADO SPRINGS, IS RESPONSIBLE FOR DEVELOPING THE SWMP SHEETS DURING DESIGN.

STORM WATER MANAGEMENT CONTROLS

FIRST CONSTRUCTION ACTIVITIES:

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

- A. **DESIGNATE A SWMP ADMINISTRATOR/EROSION CONTROL SUPERVISOR:**

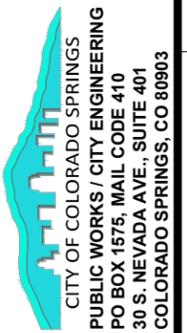
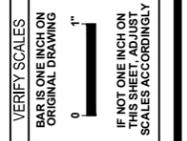
NAME/TITLE:

CONTACT INFORMATION:

- B. **POTENTIAL POLLUTANT SOURCES**
EVALUATE, IDENTIFY AND DESCRIBE ALL POTENTIAL SOURCES OF POLLUTANTS AT THE SITE IN ACCORDANCE WITH SUBSECTION 107.25 AND PLACE IN THE SWMP NOTEBOOK. ALL BMPs RELATED TO POTENTIAL POLLUTANTS SHALL BE SHOWN ON THE SWMP SITE MAP BY THE CONTRACTOR'S ECS.

- C. **BEST MANAGEMENT PRACTICES (BMPs) FOR STORMWATER POLLUTION PREVENTION**

DATE	
BY	
NO. REVISION	
PROJECT MANAGER	M. CHAVES
DESIGNED BY	M. CHAVES
DRAWN BY	M. NAGAMATSU
CHECKED BY	M. CHAVES
PROJECT NUMBER	2014-032

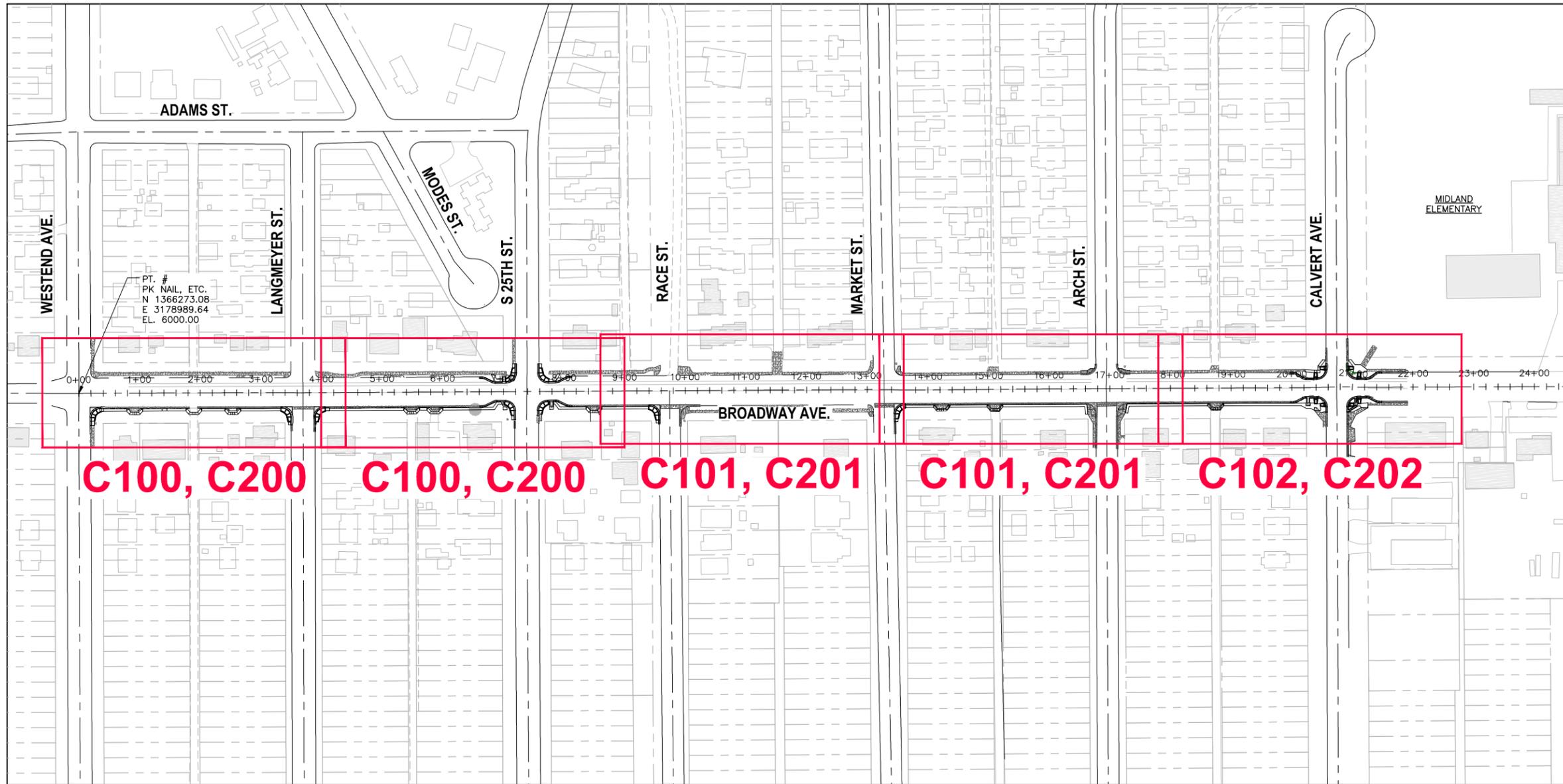


**CAPITAL IMPROVEMENT PROGRAM
SRTS BROADWAY AVENUE/
MIDLAND ELEMENTARY
PEDESTRIAN IMPROVEMENTS
SWMP**

SCALE	HORZ: - VERT: -
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SHEET	G004
	5 OF 14 SHEETS

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CONTROL AND MOMUMENTATION DIAGRAM
MIDLAND ELEMENTARY SCHOOL PEDESTRIAN IMPROVEMENTS
 LOCATED WITHIN NORTH 1/2 OF SECTION ##, TOWNSHIP ## SOUTH, RANGE ## WEST
 OF THE 6TH PRINCIPAL MERIDIAN, EL PASO COUNTY, COLORADO



- SURVEY NOTES:**
1. DETECTABLE WARNINGS SHALL BE ACCORDING TO STD. D-8a - 8c AND SHALL BE PRE-CAST CONCRETE PANELS.
 2. MEDIAN COVER MATERIAL, THE COLOR OF CONCRETE AND OTHER ARCHITECTURAL ELEMENTS SHALL BE APPROVED BY THE CITY PRIOR TO STARTING THE WORK.
 3. THE GRADES SHOWN ON THESE PLANS ARE NOT SURVEYED, BUT SHOWN AS RELATIVE GRADES ONLY.
 4. ALL EXISTING TOPOGRAPHY, INCLUDING LOCATIONS OF DRAINAGE FEATURES, SHALL BE FIELD VERIFIED PRIOR TO BEGINNING OF CONSTRUCTION.

NO.	REVISION	BY	DATE

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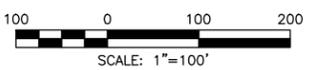
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 30 S. NEVADA AVE., SUITE 401
 COLORADO SPRINGS, CO 80903

CAPITAL IMPROVEMENT PROGRAM
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MIDLAND ELEMENTARY

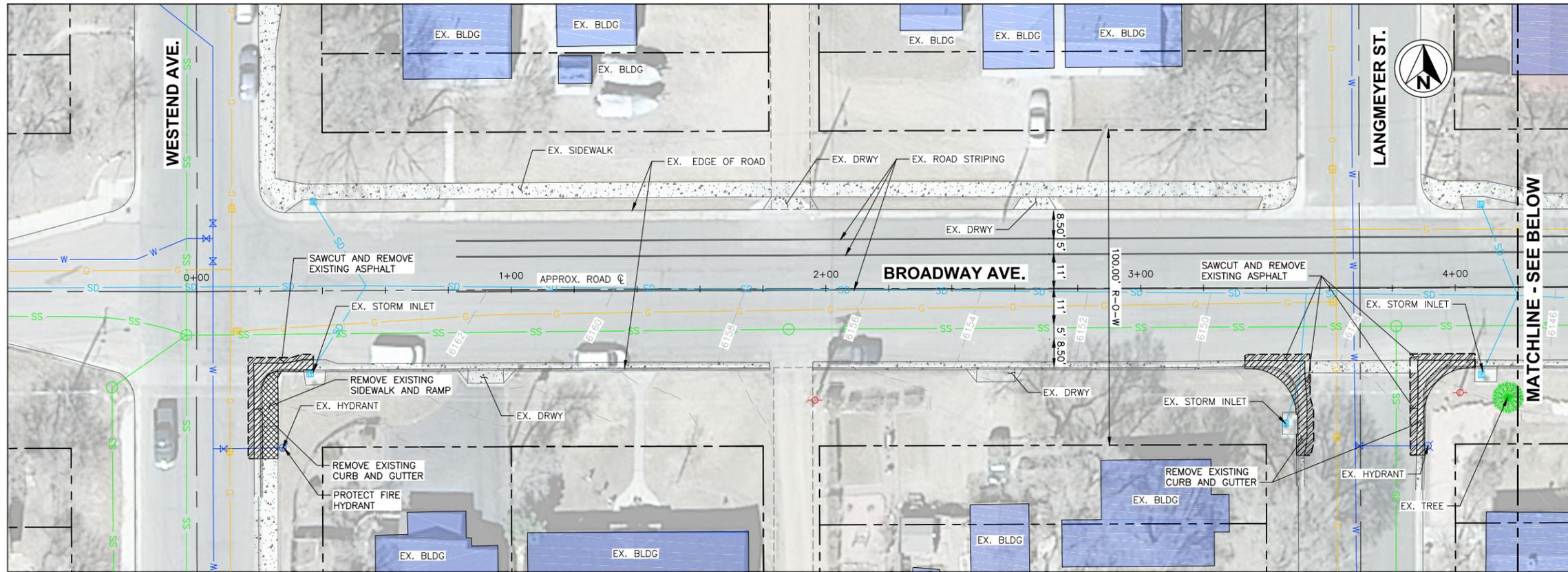
PEDESTRIAN IMPROVEMENTS
SURVEY CONTROL AND KEY MAP

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6 OF 14 SHEETS	

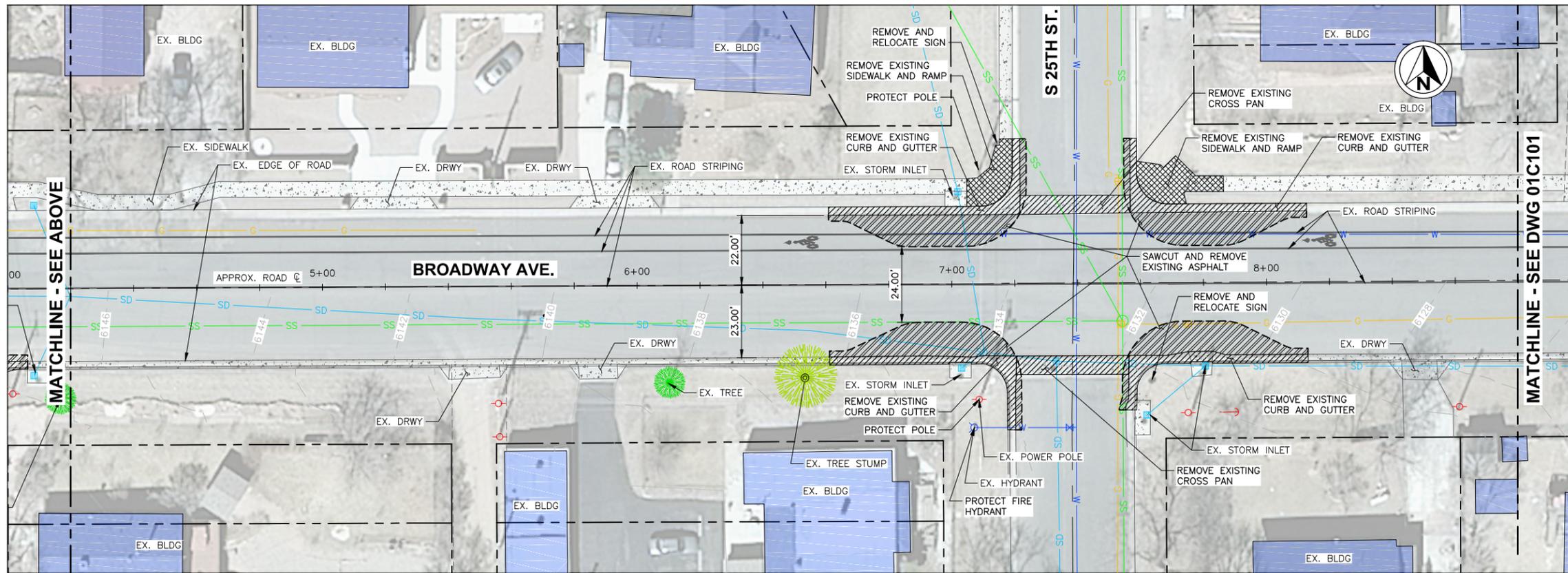
SURVEY CONTROL AND PROJECT KEY MAP
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 Xrefs: 00C-BD-22234_VERT.DWG 00V-BE01-20_MIDLAND SURVEY.DWG MIDLAND ORTHO.DWG 01C-R001-20_MIDLAND DESIGN.DWG - Images:



REMOVAL PLAN
SCALE: 1"=20'



REMOVAL PLAN
SCALE: 1"=20'

CONSTRUCTION NOTES:

1. DETECTABLE WARNINGS SHALL BE ACCORDING TO STD. D-8a - 8c AND SHALL BE PRE-CAST CONCRETE PANELS.
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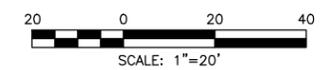
- REMOVAL OF EXISTING CONCRETE CURB AND GUTTER
- REMOVAL OF EXISTING CONCRETE SIDEWALK AND RAMP
- REMOVAL OF EXISTING ASPHALT PAVEMENT

NO.	REVISION	BY	DATE

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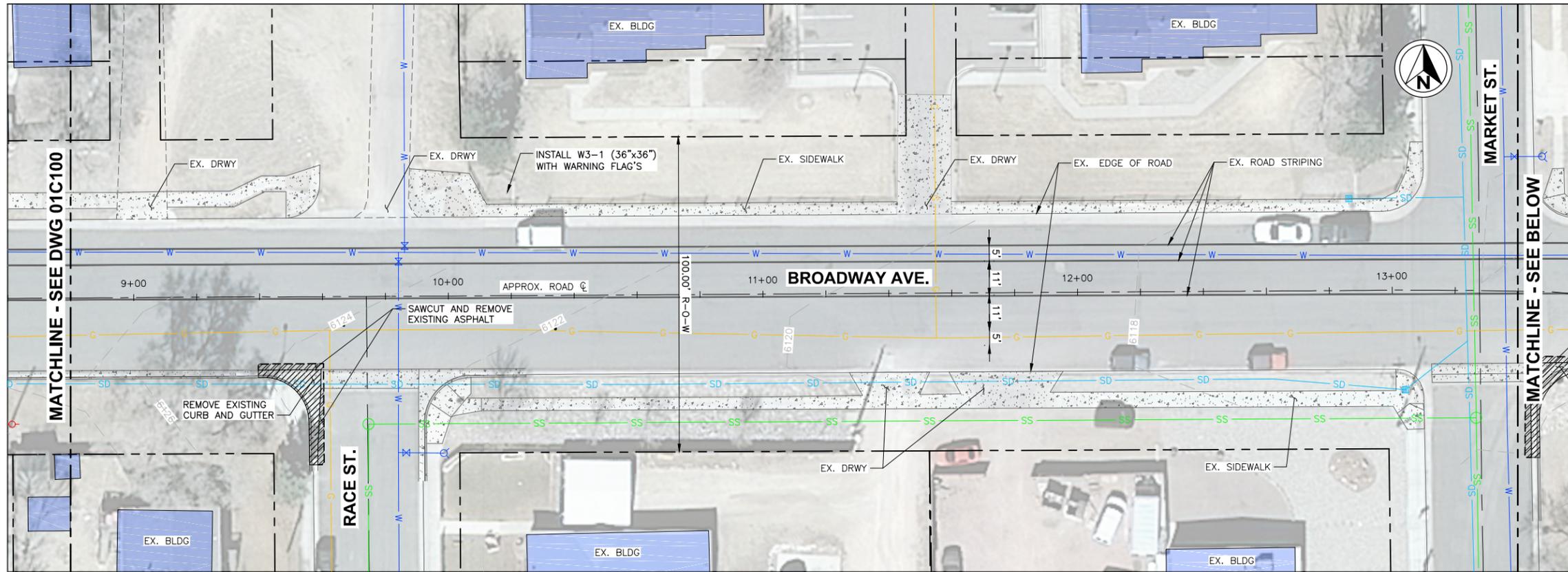
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PO BOX 1575, MAIL CODE 410
30 S. NEVADA AVE., SUITE 401
COLORADO SPRINGS, CO 80903

CAPITAL IMPROVEMENT PROGRAM
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PEDESTRIAN IMPROVEMENTS
REMOVAL PLAN

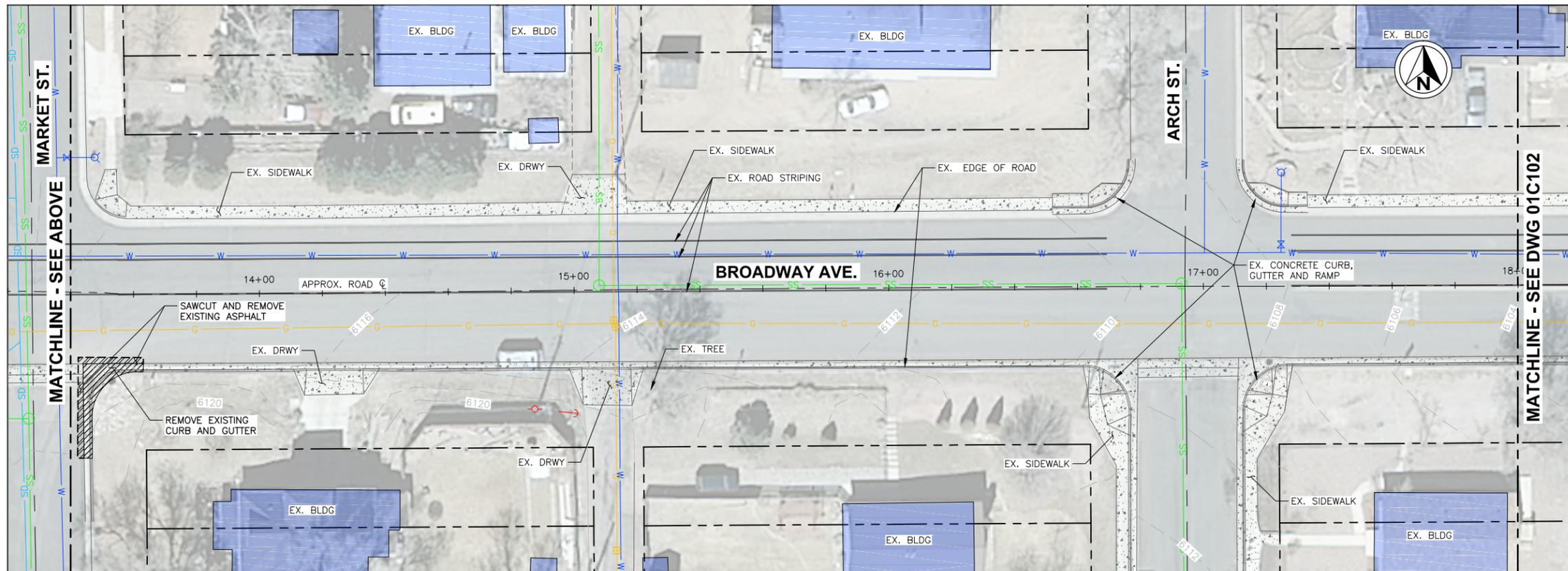


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7 OF 14 SHEETS	

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REMOVAL PLAN
SCALE: 1"=20'



REMOVAL PLAN
SCALE: 1"=20'

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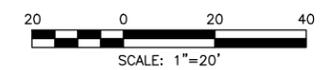
-  REMOVAL OF EXISTING CONCRETE CURB AND GUTTER
-  REMOVAL OF EXISTING CONCRETE SIDEWALK AND RAMP
-  REMOVAL OF EXISTING ASPHALT PAVEMENT

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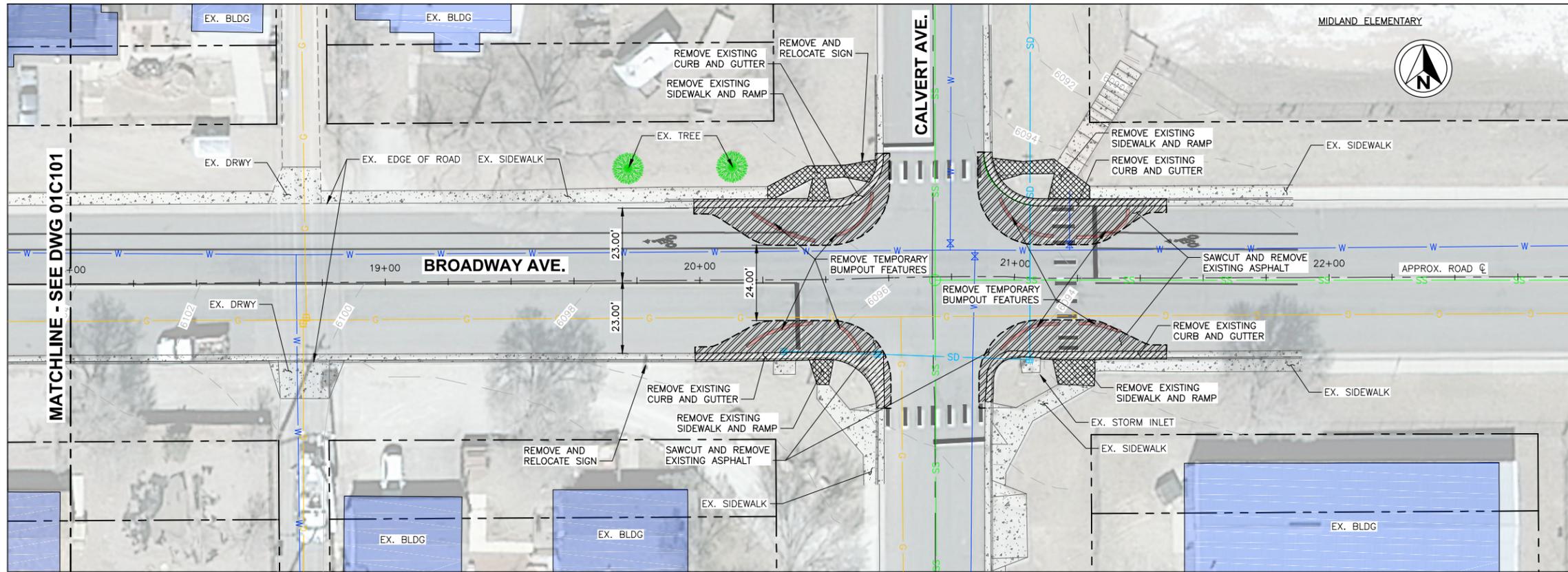
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REMOVAL PLAN



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8 OF 14 SHEETS	

PROJECT MANAGER	M. CHAVES
DESIGNED BY	M. CHAVES
DRAWN BY	M. NAGAMATSU
CHECKED BY	M. CHAVES
PROJECT NUMBER	2014-032
NO. REVISION	
BY	
DATE	

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REMOVAL PLAN
SCALE: 1"=20'

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- REMOVAL OF EXISTING CONCRETE SIDEWALK AND RAMP
- REMOVAL OF EXISTING ASPHALT PAVEMENT

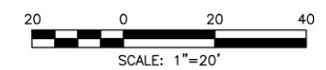
PROJECT MANAGER	M. CHAVES	NO. REVISION	
DESIGNED BY	M. CHAVES	DATE	
DRAWN BY	M. NAGAMATSU		
CHECKED BY	M. CHAVES		
PROJECT NUMBER		2014-032	

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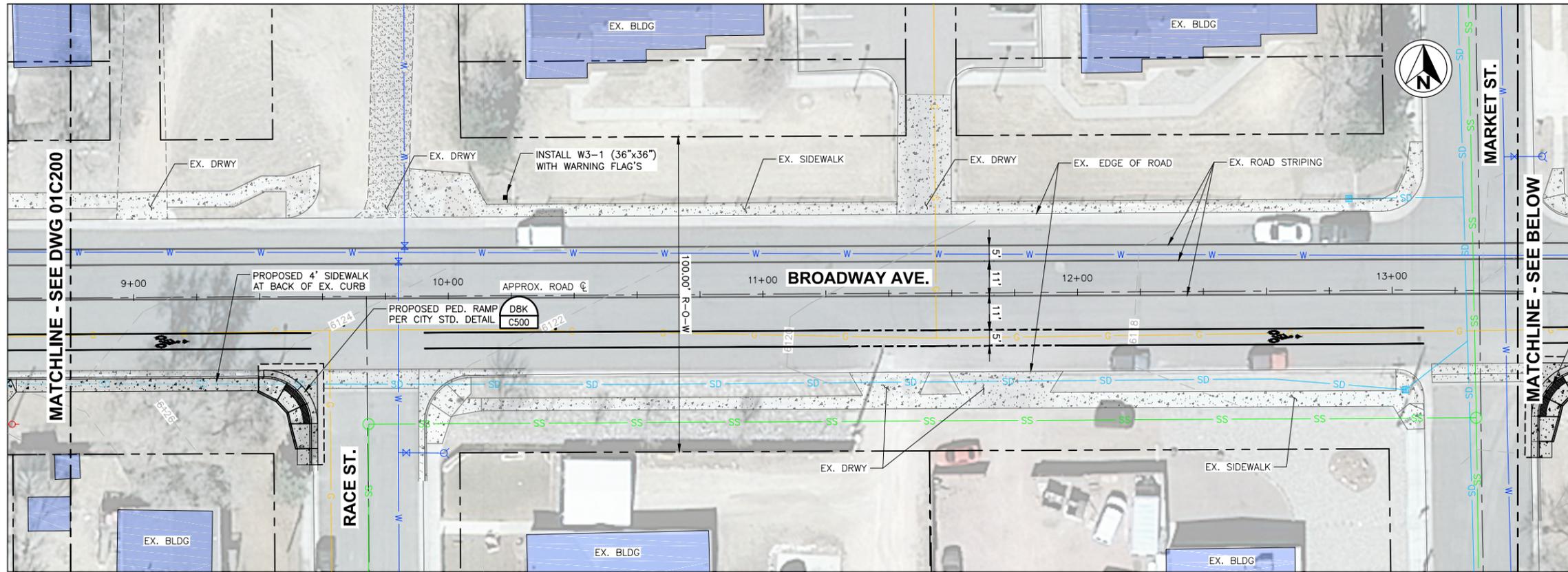
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MIDLAND ELEMENTARY

PEDESTRIAN IMPROVEMENTS
REMOVAL PLAN

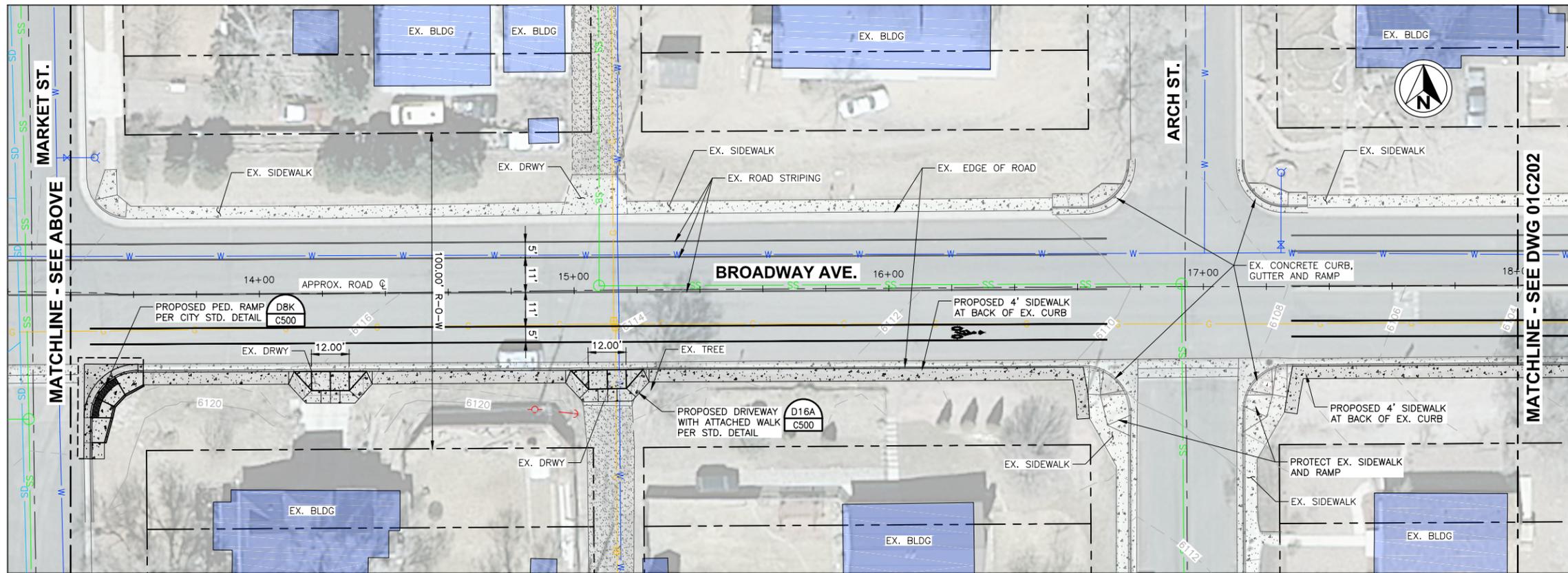


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SIDEWALK PLAN
SCALE: 1"=20'



SIDEWALK PLAN
SCALE: 1"=20'

CONSTRUCTION NOTES:

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5. MAINTAIN BIKE LANES (3-FT ASPHALT AND 2-FT PAN) THRU BUMP OUT AREA.
6. REPAIR ALL CROSSWALKS AND CROSSBARS THAT ARE DAMAGED DURING CONSTRUCTION.
7. REMOVE TEMPORARY BUMP OUTS (PORTABLE CURB'S) AT CALVERT AVE. AND BROADWAY AVE. AND RETURN TO CITY SIGNS AND MARKINGS. BIKE LANES AT BOTH S. 25TH ST. AND CALVERT AVE. ARE UP TO THE STOP BAR'S.
8. PEDESTRIAN RAMPS TO HAVE 4-FT DEEP LANDINGS, BEHIND DETECTABLE WARNING PANELS.
9. DRIVEWAYS AND ALLEYS TO HAVE 4-FT WIDE TRANSVERSABLE SIDEWALK BEHIND RAMP.
10. ALL CURBS TO HAVE A MINIMUM 15-FT RADIUS.
11. DRIVEWAY THROAT TO MATCH EXISTING DRIVEWAY WIDTHS.

LEGEND:

- CONCRETE IMPROVEMENTS
- HBP ASPHALT PATCH

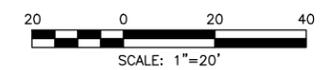
NO.	REVISION	BY	DATE

VERIFY SCALES
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1" = 20'

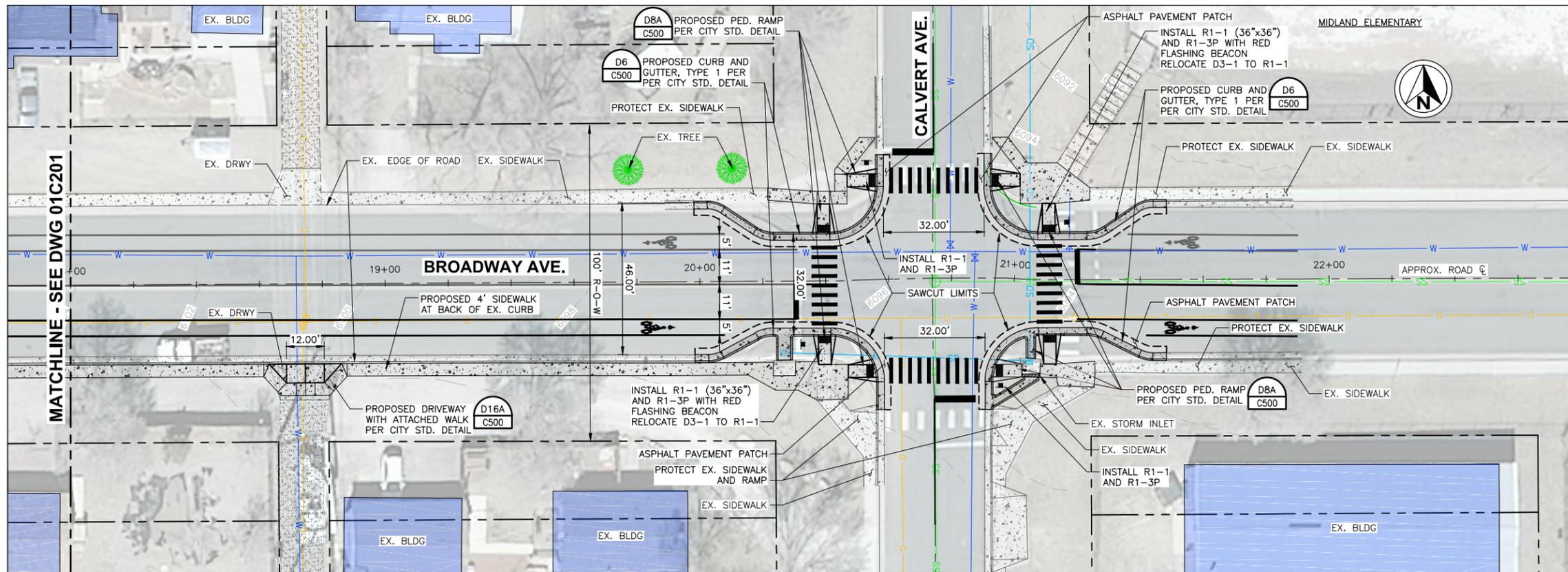
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SIDEWALK PLAN



SCALE	HORIZ: 1"=20'
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SHEET	C201
11 OF 14 SHEETS	

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SIDEWALK PLAN

SCALE: 1"=20'

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- HBP ASPHALT PATCH

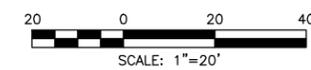
PROJECT MANAGER	M. CHAVES
DESIGNED BY	M. CHAVES
DRAWN BY	M. NAGAMATSU
CHECKED BY	M. CHAVES
PROJECT NUMBER	2014-032

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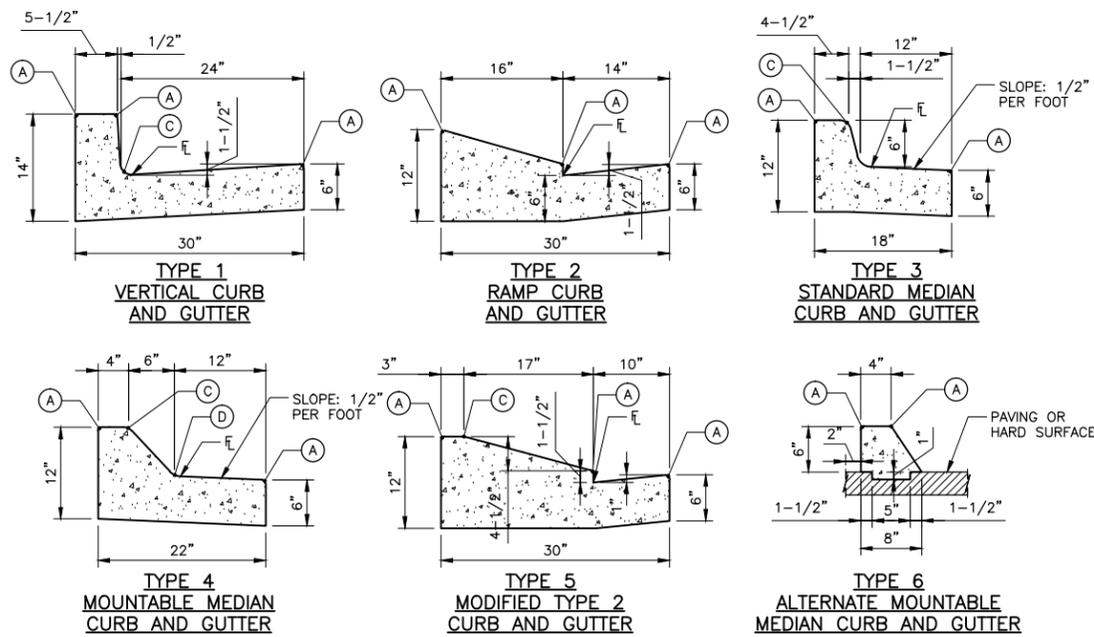
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PEDESTRIAN IMPROVEMENTS
SIDEWALK PLAN



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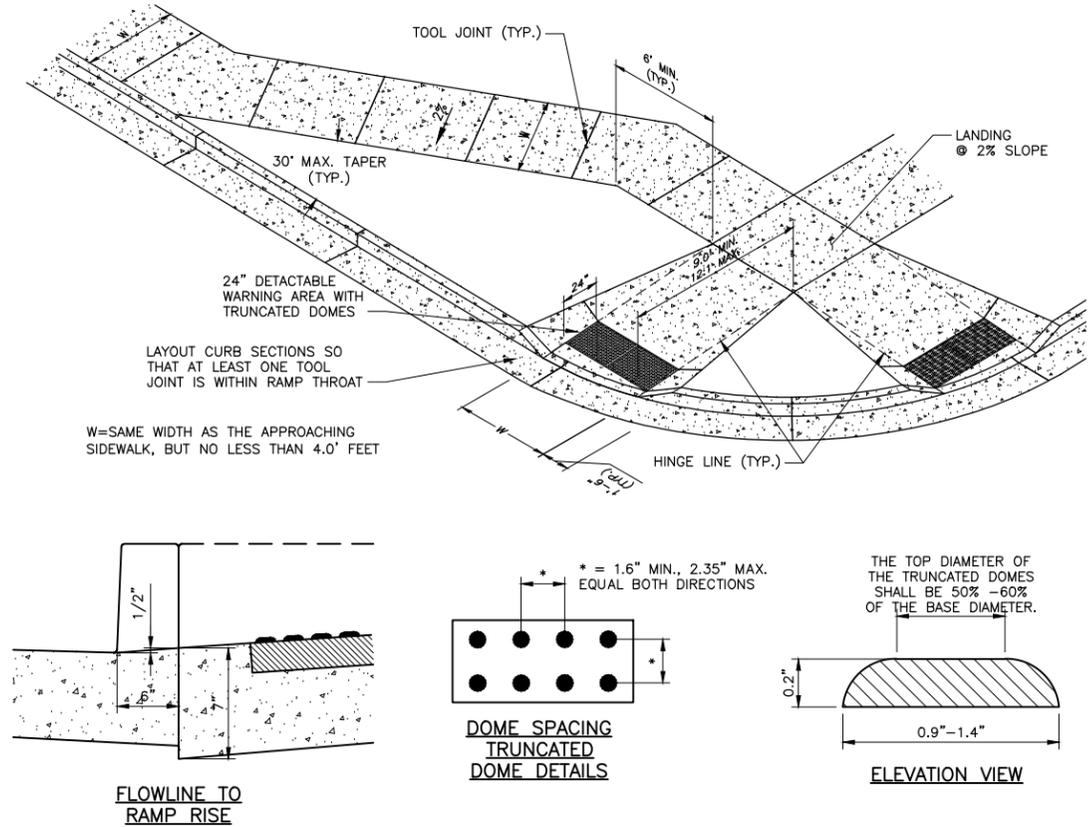
LENGTH OF RADII	
(A)	1/2"
(C)	1-1/2"
(D)	1-1/2" TO 2"

NOTES FOR TYPE 6 CURB:

- 4000 PSI CONCRETE MIX DESIGN SHALL BE MODIFIED TO INCLUDE 0.5 BAGS OF FIBER MESH PER CUBIC FOOT.
- 1" DEEP TOOL JOINTS SHALL BE INSTALLED AT 6 FOOT SPACING.
- TYPE 6 MEDIAN CURB WILL ONLY BE ALLOWED WHERE STREET SECTION FALLS AWAY FROM CURB, "SPILL" CONDITION.

CURB AND GUTTER DETAIL

TYPE 1, 2, 3, 4, 5 AND 6
CITY STANDARD DETAIL D-6
SCALE: NTS



PEDESTRIAN RAMP DETAIL

STANDARD PEDESTRIAN RAMP
CITY STANDARD DETAIL D-8A
SCALE: NTS

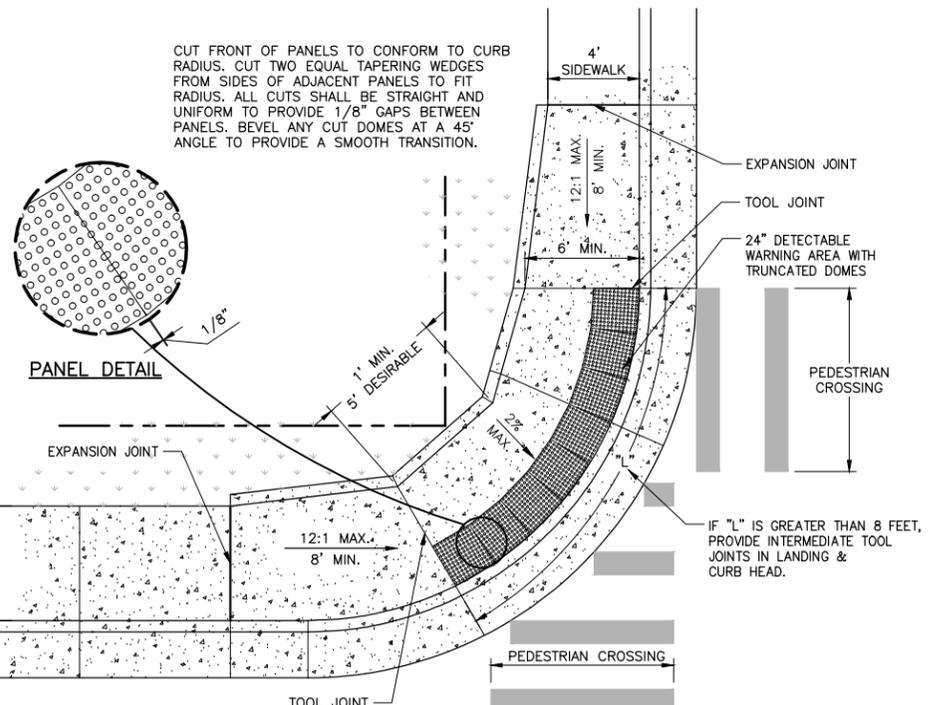


GENERAL NOTES:

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT CITY OF COLORADO SPRINGS ENGINEERING DIVISION STANDARD SPECIFICATIONS. CONTRACTOR TO OBTAIN REQUIRED CONCRETE PERMITS PRIOR TO CONSTRUCTION.
- CONTRACTOR TO NOTIFY ENGINEERING DIVISION INSPECTION OFFICE AT LEAST 24 HOURS PRIOR TO PLACEMENT OF ANY CONCRETE.
- PEDESTRIAN RAMPS WITH 24" DETECTABLE WARNING AREA SHALL BE 4000 PSI, PLAIN CONCRETE, WITH A COARSE BROOM FINISH PERPENDICULAR TO DIRECTION OF TRAVEL. CONTRACTOR SHALL STAMP THEIR COMPANY NAME AND CONSTRUCTION DATE WITHIN THE PEDESTRIAN RAMP AREA.
- RAMP LOCATION AND LENGTH MAY REQUIRE MODIFICATION TO MAINTAIN THE 12:1 MAXIMUM RUNNING SLOPE DUE TO INTERSECTION STREET GRADES AND/OR ALIGNMENT.
- WHERE THE 1'-6" FLARED SIDE(S) OF A PERPENDICULAR CURB RAMP IS (ARE) CONTIGUOUS WITH A PEDESTRIAN OR HARD SURFACE AREA, THE FLARE WIDTH SHALL BE INCREASED TO 8" MINIMUM AND THE MAXIMUM FLARE SLOPE SHALL NOT EXCEED 10:1.
- PEDESTRIAN WALKWAY AND/OR LOCATION OF EXISTING OR FUTURE PEDESTRIAN RAMPS ON OPPOSITE CORNERS SHALL BE REVIEWED BEFORE CONSTRUCTING NEW RAMPS. NEW RAMPS SHALL ALIGN WITH EXISTING RAMPS AND PEDESTRIAN WALKWAY.
- AT MARKED PEDESTRIAN CROSSINGS, THE BOTTOM OF THE RAMPS, EXCLUSIVE OF THE FLARE SIDES, SHALL BE TOTALLY CONTAINED WITHIN THE MARKINGS.
- DETECTABLE WARNING AREA SHALL BE PREFABRICATED REDDISH INTEGRALLY COLORED TRUNCATED-DOME SURFACED CONCRETE PAVERS OR THE PRE-CAST PANELS FROM THE CITY'S APPROVED PRODUCT LIST.

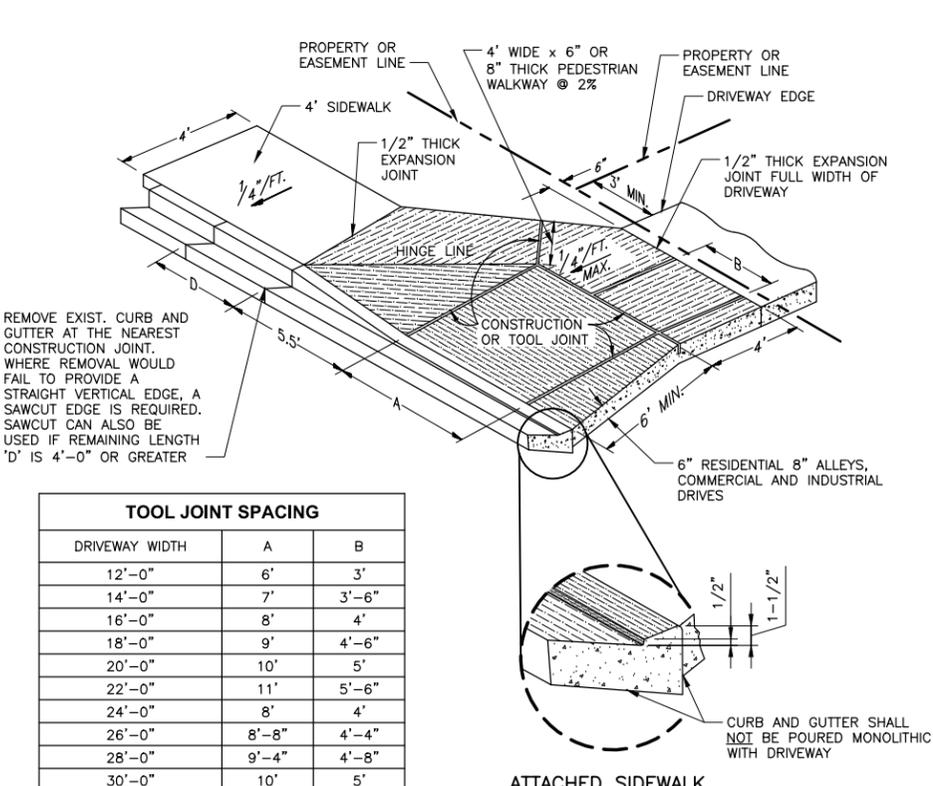
DATE	BY	NO.	REVISION

PROJECT MANAGER	M. CHAVES
DESIGNED BY	M. CHAVES
DRAWN BY	M. NAGAMATSU
CHECKED BY	M. CHAVES
PROJECT NUMBER	2014-032



ALTERNATE PARALLEL PEDESTRIAN RAMP DETAIL

FOR RETROFIT APPLICATIONS ON CORNERS
CITY STANDARD DETAIL D-8A
SCALE: NTS



TOOL JOINT SPACING		
DRIVEWAY WIDTH	A	B
12'-0"	6'	3'
14'-0"	7'	3'-6"
16'-0"	8'	4'
18'-0"	9'	4'-6"
20'-0"	10'	5'
22'-0"	11'	5'-6"
24'-0"	8'	4'
26'-0"	8'-8"	4'-4"
28'-0"	9'-4"	4'-8"
30'-0"	10'	5'

DRIVEWAY WITH ATTACHED SIDEWALK DETAIL

STANDARD DRIVEWAY WITH ATTACHED WALK
CITY STANDARD DETAIL D-16A
SCALE: NTS



NOTES:

- PROVIDE CENTERLINE CONSTRUCTION OR TOOL JOINT WHEN DRIVEWAY WIDTH (EDGE TO EDGE) IS 14' OR GREATER.
- ALL TOOL JOINTS SHALL BE A MINIMUM OF 1-1/2" DEEP.
- WHEN REPLACING EXISTING CURB AND GUTTER WITH NEW DRIVEWAY, ENTIRE CURB AND GUTTER SECTION SHALL BE REMOVED AND REPLACED WITH CURB AND GUTTER (VARIABLE-CURB-HEIGHT) AS SHOWN. DO NOT BREAK CURB FROM GUTTER SECTION. MACHINE SAWCUT IS ALLOWABLE; SEE D-16C.
- FLARED PORTION OF DRIVEWAY SHALL BE POURED MONOLITHIC WITH MAIN RECTANGULAR PORTION OF DRIVEWAY.
- WHERE THERE IS MORE THAN ONE DRIVEWAY ON A LOT, 30' OF FULL CURB SHALL BE PROVIDED BETWEEN DRIVEWAYS.
- WHERE AN EXISTING SIDEWALK IS IN PLACE, AND ITS THICKNESS IS LESS THAN 6" (RESIDENTIAL) OR 8" (COMMERCIAL, INDUSTRIAL, OR ALLEY) THE SIDEWALK THROUGH THE DRIVEWAY SHALL BE REMOVED AND REPLACED WITH PORTLAND CEMENT CONCRETE, 6" (RESIDENTIAL) OR 8" (COMMERCIAL) IN THICKNESS.
- ALL EXCAVATION, EMBANKMENT AND CONCRETE SHALL BE IN ACCORDANCE WITH CITY STANDARD SPECIFICATIONS.
- ALL PROVISIONS OF SECTION 14-15-104 OF THE CITY CODE SHALL BE MET, WITH REGARD TO MINIMUM SETBACK FROM INTERSECTION AND SIDE PROPERTY LINES, MINIMUM SPACING, MAXIMUM WIDTH, ETC.
- WHEN A DRIVEWAY IS TO BE TAKEN OUT OF SERVICE, THE ENTIRE LENGTH OF CURB AND GUTTER (VARIABLE-CURB-HEIGHT) SHALL BE REMOVED AND REPLACED WITH NEW CURB AND GUTTER. DO NOT PLACE NEW CURB HEAD ON EXISTING VARIABLE-CURB-HEIGHT CURB AND GUTTER.

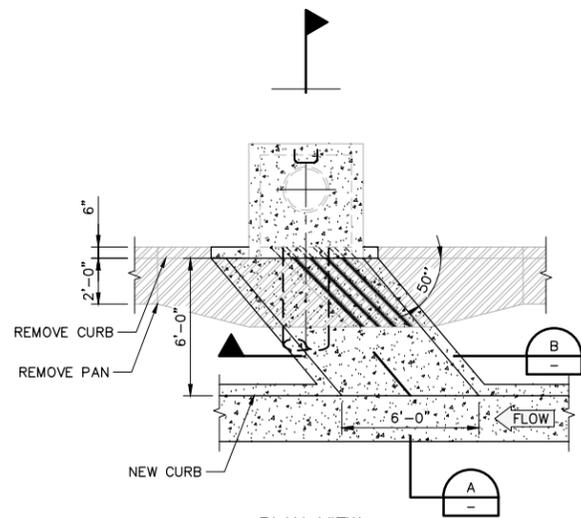
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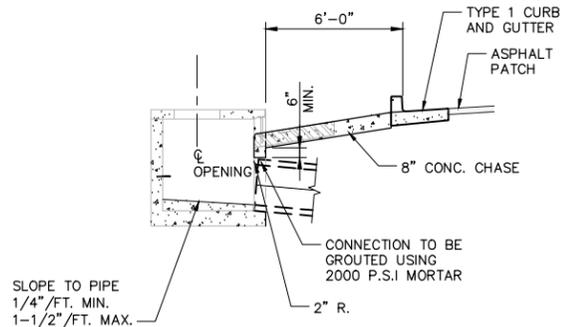
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CITY STANDARD DETAILS

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	13 OF 14 SHEETS

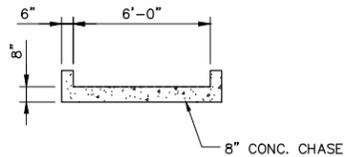
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Title: C500-BD-222334_VERT.DWG - Images:



PLAN VIEW



SECTION A-A



SECTION B-B

STANDARD STORM INLET

STANDARD STORM INLET DETAIL D-10R
MODIFICATION WITH CURB CHASE
SCALE: NTS

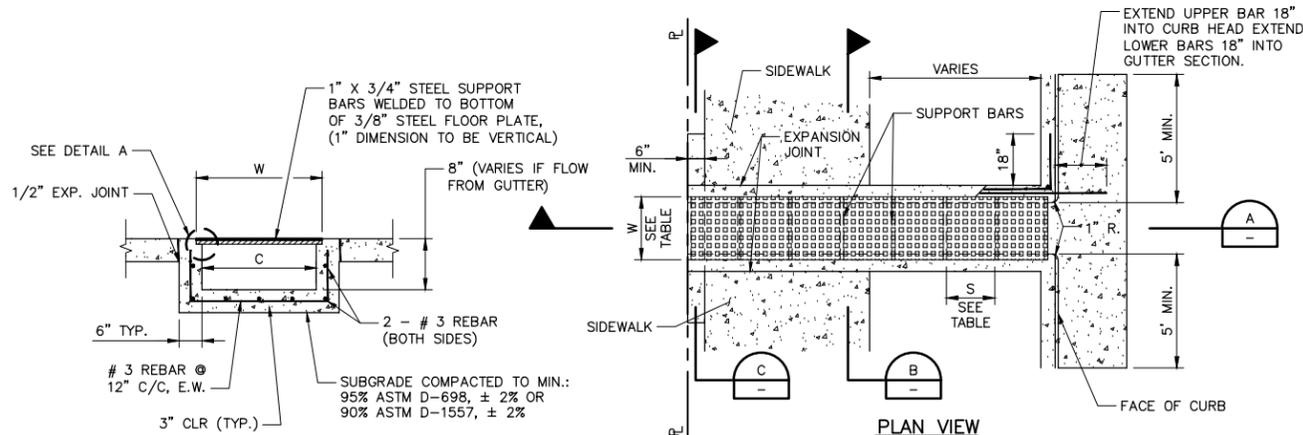


GENERAL NOTES:

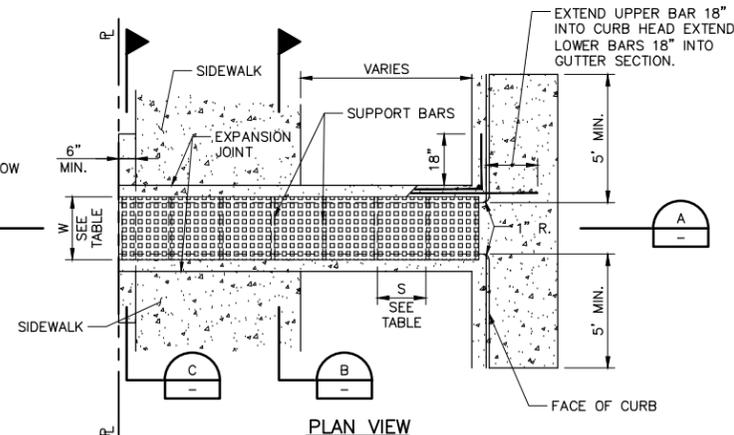
1. XXXX

NO. REVISION	DATE
PROJECT MANAGER	M. CHAVES
DESIGNED BY	M. CHAVES
DRAWN BY	M. NAGAMATSU
CHECKED BY	M. CHAVES
PROJECT NUMBER	2014-032

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

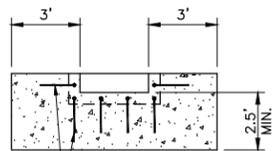


SECTION B-B



PLAN VIEW

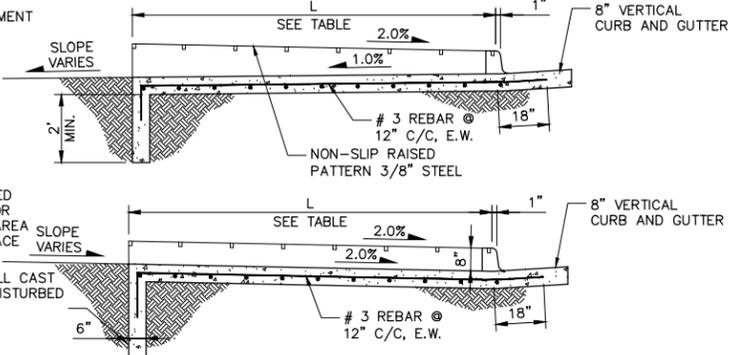
OUTLET TREATMENT SUBJECT TO DETAIL DESIGN



SECTION C-C

CUT-OFF WALL MAY BE DELETED IF UPSTREAM OR DOWNSTREAM AREA IS HARD SURFACE

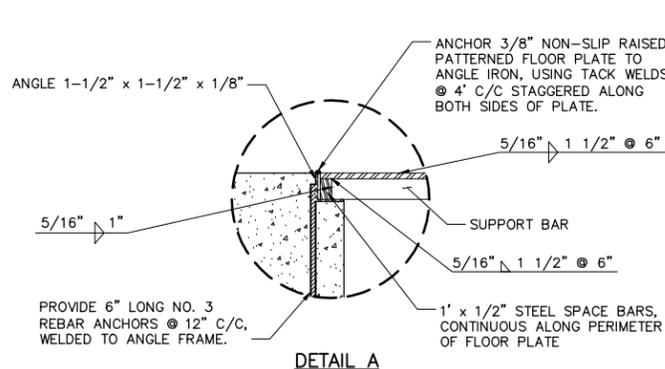
CUT-OFF WALL CAST AGAINST UNDISTURBED EARTH



SECTION A-A

CURB OPENING DETAILS

STANDARD CURB OPENING
CITY STANDARD DETAIL D-21A
SCALE: NTS



DETAIL A

PROVIDE 6" LONG NO. 3 REBAR ANCHORS @ 12" C/C, WELDED TO ANGLE FRAME.

NOTES:

- ALL EXPOSED METAL TO BE HOT DIPPED ZINC COATED. FIELD WELDS TO BE TOUCH-UP WITH COLD ZINC COATING.
- WHEN OTHER THAN TYPE I (8") CURB EXISTS, THE CONTRACTOR SHALL REMOVE THE EXISTING CURB TO ALLOW FOR THE REQUIRED TRANSITIONS, AS FOLLOWS: BEGINNING AT THE EDGE OF THE CHASE SECTION, THERE SHALL BE A MINIMUM OF 5 FEET OF TYPE I CURB PLUS 10 FEET OF TRANSITION TO EXISTING CURB TYPE.
- ALL REMOVAL OF EXISTING CURB SHALL BE BY SAW-CUT, OR BY REMOVAL TO AN EXISTING EXPANSION OR COLD JOINT. REMAINING SECTION AFTER SAW CUTTING TO BE MINIMUM 4" IN LENGTH.
- CHASE SECTION TO BE POURED MONOLITHICALLY WITH CURB & GUTTER SECTION AND CUT-OFF WALL.
- WHEN CHASE SECTION LENGTH (L) EXCEEDS 15' PROVIDE TOOL JOINT IN CONCRETE AT MAXIMUM OF 10' SPACING FABRICATE FLOOR PLATES IN MULTIPLE SECTION NOT TO EXCEED 10' IN LENGTH.
- WHEN ANGLED, MIN. OF 5' SPACING BETWEEN JOINTS IN PLATES.

TYPE OF WALK	MIN. TOTAL LENGTH (L) OF PLATE
ATTACHED	WALK WIDTH + 10-1/2"
DETACHED OR ROADWAYS WITHOUT WALKS	VARIES, HOWEVER ENTIRE CHASE SECTION SHALL BE COVERED WITHIN PUBLIC R.O.W. (SEE NOTE 5)

1" x 3/4" SUPPORT BAR REQUIREMENTS	
FLOOR PLATE WIDTH (W)	SUPPORT SPACING (S)
1'-0"	NONE REQUIRED
2'-0"	60" C/C
3'-0"	27" C/C
4'-0"	15" C/C
5'-0"	10" C/C
6'-0"	7" C/C

NOTE: EACH END OF FLOOR PLATE SHALL BE SUPPORTED BY SUPPORT BARS, WHEN SUPPORT BARS ARE SPECIFIED. CHASE OPENING (C) = W - 2-3/8"

CURB OPENING DETAILS

STANDARD CURB OPENING
CITY STANDARD DETAIL D-21B
SCALE: NTS



CITY OF COLORADO SPRINGS
PUBLIC WORKS / CITY ENGINEERING
PO BOX 1575, MAIL CODE 410
30 S. NEVADA AVE., SUITE 401
COLORADO SPRINGS, CO 80903

CAPITAL IMPROVEMENT PROGRAM
SRTS BROADWAY AVENUE/
MIDLAND ELEMENTARY

PEDESTRIAN IMPROVEMENTS
CITY STANDARD DETAILS

SCALE	HORIZ: - VERT: -
FILENAME	01C501.dwg
SHEET	C501
14 OF 14 SHEETS	

User: MNCAMATSU Jan 21, 2016 12:08pm
Drawing: \\DPO2-ADSS\SSD\PROJECTS\2014 PROJECTS\2014-032 MIDLAND ELEMENTARY\MIDLAND DESIGN\03-DESIGN\B-SHEET_FILES\01C501.DWG - Layout: CITY STANDARD DETAILS
Xref: 00C-BD-222334_VERT.DWG - Images: