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HISTORIC ARKANSAS RIVERWALK OF PUEBLO GATEWAY PLAZA CONSTRUCTION DOCUMENTS

EDA PROJECT NO. 05-01-05793

CITY PROJECT NO. 18-046 (EDA 1503 & RTA 1601)

320 CENTRAL MAIN STREET

PUEBLO, CO 81003

JUNE 14, 2018

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OWNER APPROVAL:

CITY OF PUEBLO _____ DATE: _____

PUEBLO URBAN RENEWAL AUTHORITY _____ DATE: _____

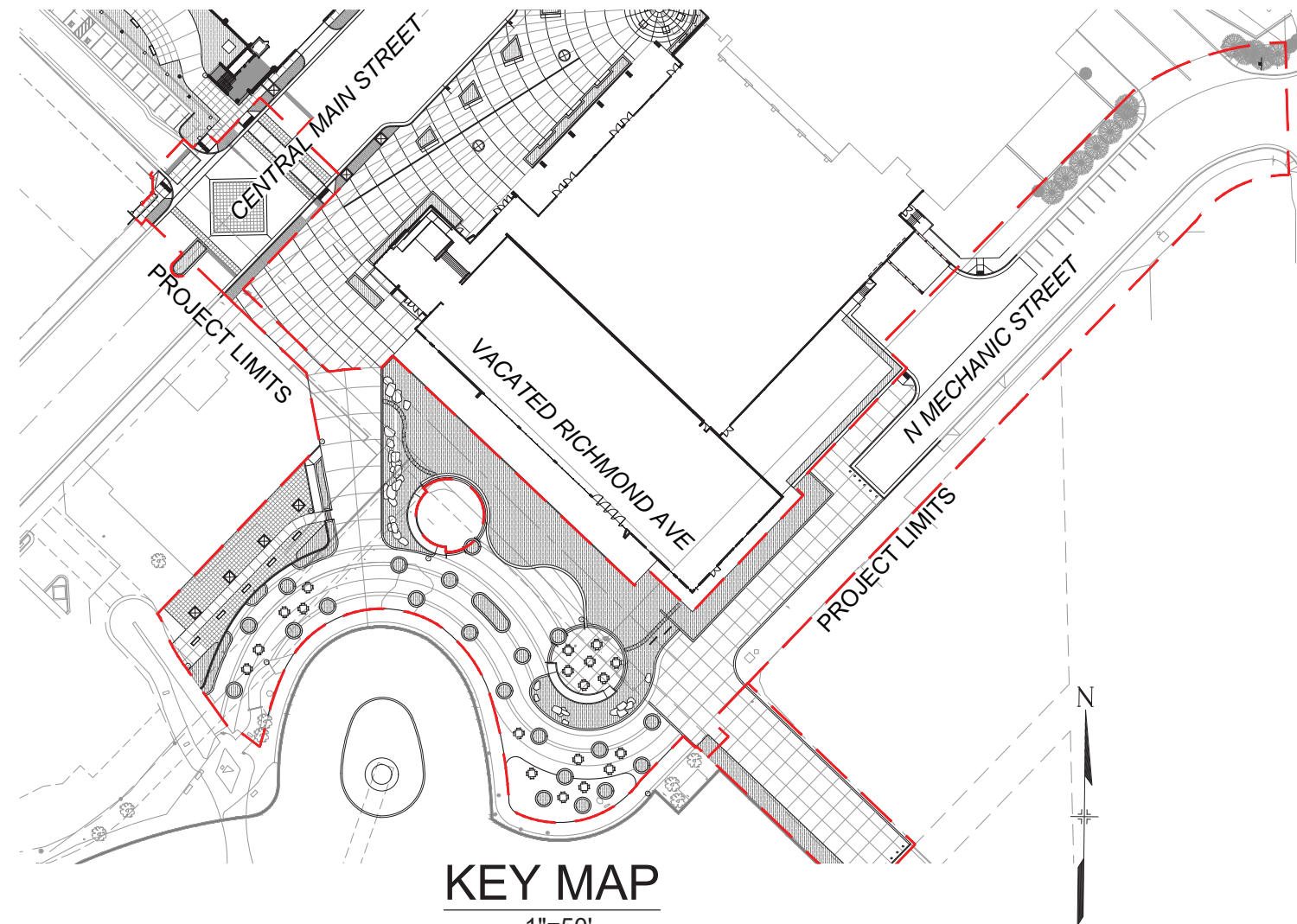
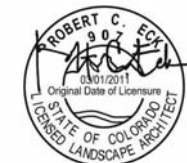
HARP _____ DATE: _____

ENGINEER'S STATEMENT:

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION.



FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
GREGORY SHANER, PE# 36307



KEY MAP

1"=50'

THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

REFERENCE DRAWINGS	No.	DATE	DESCRIPTION	BY
X-946-PR-BASE				
X-946-EX-BASE-COMBINED				
X-946-EX-MAP-COMBINED				
X-946-PR-BASE - PARKING GARAGE				
X-479-PR-BASE - Gateway Park				
X-MAIN INTERSECTION				
X-481-TITLE-LANDSCAPE				
X-PR-LIMIT-Gateway Park				

COMPUTER FILE MANAGEMENT	
FILE NAME:	S:\17.946.001 (Pueblo Convention Center)\Dwg\Construction Plans\EDA Package\TS01.dwg
CTB FILE:	----
PLOT DATE:	6/14/2018 2:31 PM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.	

PREPARED BY:



SEAL

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 17.946.001

EDA PROJECT NUMBER: 05-01-05793			
HISTORIC ARKANSAS RIVERWALK OF PUEBLO GATEWAY PLAZA PROJECT			
TITLE SHEET			
DESIGNED BY:	ME	SCALE	DATE ISSUED: JUNE 14, 2018
DRAWN BY:	AL	HORIZ	N/A
CHECKED BY:	GS	VERT.	N/A
SHEET			1 OF 31
DRAWING No.			C100



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GENERAL NOTES

- 1. THE CONTRACTOR SHALL CONFORM TO ALL CITY OF PUEBLO RULES, REGULATIONS AND STIPULATIONS WHILE ACCESSING THROUGH OR WORKING ON SITE.
2. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH MATRIX DESIGN GROUP, INC., THE CITY OF PUEBLO AND THE OWNER AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
3. THE CONTRACTOR IS WARNED THAT CONFLICTS WITH EXISTING UTILITY SERVICES MAY EXIST. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL CONTACT ALL APPROPRIATE UTILITY COMPANIES FOR LINE LOCATIONS, AND CONTRACTOR SHALL LOCATE ALL UTILITIES (INCLUDING DEPTH).
4. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND INSPECTIONS, WHICH ARE NECESSARY TO PERFORM WORK IN RIGHT OF WAY AND BUILDING DEPT. CITY OF PUEBLO WILL WAIVE THE FEE FOR RIGHT OF WAY PERMIT.
5. ALL CONSTRUCTION SHALL CONFORM TO CITY OF PUEBLO STANDARDS AND SPECIFICATIONS AND SHALL BE SUBJECT TO CONSTRUCTION OBSERVATION BY THEIR REPRESENTATIVES.
6. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR CONSTRUCTION PURPOSES.
7. OBSERVATIONS OF THE WORK IN PROGRESS AND ONSITE VISITS ARE NOT TO BE CONSTRUED AS A GUARANTEE OR WARRANTY BY MATRIX DESIGN GROUP, INC. OF THE CONTRACTOR'S CONTRACTUAL RESPONSIBILITIES.
8. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION OF STOCKPILING OF MATERIALS.
9. CONSTRUCTION STAKING WILL BE PERFORMED BY THE CONTRACTOR SELECTED FIRM.
10. THE CONTRACTOR IS REQUIRED TO CONTACT MATRIX DESIGN GROUP TO ESTABLISH CONSTRUCTION BENCHMARKS.
11. SAFETY IS A RESPONSIBILITY OF THE CONTRACTOR.
12. ALL UTILITY TRENCHES IN ROAD AND PATH PRISM TO BE COMPACTED AND TESTED PER GEOTECHNICAL ENGINEER REQUIREMENT.
13. SOILS TESTING IS BY THE OWNER, BUT THE CONTRACTOR MUST NOTIFY THE SOILS ENGINEER, THE OWNER AND MATRIX DESIGN GROUP, INC. OF SCHEDULING.
14. THE CONTRACTOR SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO SIGNIFICANTLY REDUCE ANY POTENTIAL POLLUTION CAUSED BY HIS ACTIVITIES, INCLUDING VEHICLE FUELING, STORAGE OF FERTILIZERS OR CHEMICALS, ETC.
15. THE CONTRACTOR SHALL KEEP TWO (2) SETS OF CONTRACT DRAWINGS MARKED TO FULLY INDICATE "AS-BUILT" CONDITIONS.
16. IF ANY GROUND WATER IS ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER AND THE PROJECT GEOTECHNICAL ENGINEER IMMEDIATELY.
17. THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE CHANNELS, CULVERTS AND APPURTENANCES DURING CONSTRUCTION, AS NECESSARY TO PROTECT ROADS AND PROPERTY.
18. EXISTING TOPOGRAPHIC INFORMATION PROVIDED WAS PROVIDED IN JULY 2017 BY MATRIX DESIGN GROUP.
19. ASPHALT DEPTH AND SUBBASE THICKNESS HAS BEEN PROVIDED ON SHEET C103.
20. GRADING SHALL BE CONSTRUCTED TO A TOLERANCE OF +/- 0.2 FEET.
21. CONTRACTOR SHALL COORDINATE WITH OWNER AND ENVIRONMENTAL CONSULTANT ON THE REMOVAL AND TREATMENT OF SOIL SUSCEPTIBLE TO TOXIC HAZARDS.
22. CONTRACTOR IS RESPONSIBLE TO MAINTAIN CLEAN ROADS AT ALL TIMES, INCLUDING ACCESS ROADS, PUBLIC STREETS, AND SIDEWALKS NECESSITATED BY HIS ACTIVITIES ON THE SITE.
23. DUST CONTROL IS INCIDENTAL TO THE EARTHWORK CONSTRUCTION AND SHALL BE PROVIDED BY CONTRACTOR DURING ALL CONSTRUCTION ACTIVITY AND DURING OFF CONSTRUCTION TIME.
24. ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE STATE OF COLORADO PERMITTING FOR "STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY AND AIR POLLUTANT EMISSION PERMIT."
25. SEE STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS FOR CITY OF PUEBLO FOR FLOWABLE FILL REQUIREMENTS FOR HDPE PIPE AT MANHOLE CONNECTIONS.

ENERGY CONSTRUCTION SPECIFICATIONS

- 1. BLACK HILLS ENERGY REQUIREMENTS WILL TAKE PRECEDENCE OVER ANY ENERGY GUIDELINES PROVIDED HEREIN, AND BLACK HILLS ENERGY SHALL BE NOTIFIED 48 HOURS PRIOR TO CONSTRUCTION TO COORDINATE RELOCATION OR REMOVAL DESIGN DETAILS AND INSTRUCTION.
2. TRENCH WILL BE EXCAVATED DEEP ENOUGH TO ENSURE THAT THE TOP OF INSTALLED POWER FACILITIES WILL BE 48" BELOW FINISHED GRADE. SPECIAL CARE MUST BE TAKEN TO INSURE THAT THE TOP OF CONDUITS WILL BE 48" BELOW THE BOTTOM OF DRAINAGE DITCHES AND ALL OTHER LOW AREAS.
3. TRENCHING AND CONDUITS WILL BE INSTALLED AS STRAIGHT AS POSSIBLE BETWEEN VAULTS AND SHALL HAVE A SMOOTH BOTTOM FREE OF ROCKS.
4. POWER FACILITIES TO BE PLACED PARALLEL TO DEEPER UTILITIES WILL HAVE A HORIZONTAL SEPARATION FROM THE DEEPER UTILITY GREATER THAN THE DEPTH OF SUCH UTILITY BELOW FINAL GRADE.
5. IF CABLE TELEVISION OR TELEPHONE FACILITIES ARE PLACED IN THE POWER TRENCH, A MINIMUM OF 12" HORIZONTAL SEPARATION MUST BE MAINTAINED BETWEEN THE POWER FACILITIES AND THE OTHER UTILITIES IN NO CASE WILL FACILITIES OF ANOTHER UTILITY INSTALLED IN THE TRENCH BE PLACED AT A GREATER DEPTH THAN THE POWER FACILITIES.
6. BACKFILL AND COMPACTION WILL BE PERFORMED AS REQUIRED BY THE GOVERNMENTAL ENTITY OR OTHER PARTY HAVING JURISDICTION.
7. CONDUIT JOINTS SHALL BE KNOCKED COMPLETELY HOME DURING GLUING.
8. CONDUIT SHALL BE COVERED WITH AT LEAST 4" OF ROCK-FREE SOILS OR SAND PRIOR TO BACKFILL.
9. BLACK HILLS ENERGY MUST INSPECT ALL CONDUIT INSTALLATION BEFORE THE CONDUIT IS COVERED AND AGAIN AFTER COVERING, BUT PRIOR TO BACKFILL.
10. CONDUITS ENDING OUTSIDE A VAULT SHALL BE CAPPED AND MARKED WITH A 4"x4" POST.
11. RED TRENCH MARKING TAPE WILL BE SUPPLIED BY BLACK HILLS ENERGY AND SHALL BE INSTALLED 18" ABOVE THE CONDUIT OR CABLE DURING BACKFILL.
12. VAULTS SHALL BE INSTALLED AS FOLLOWS:
A. SPLICE VAULTS SHALL BE INSTALLED WITH THE MANHOLE AT OR SLIGHTLY ABOVE FINAL GRADE.
B. TRANSFORMER VAULTS AND SWITCHGEAR VAULTS WILL BE INSTALLED WITH THE BOTTOM OF THE PAD AT FINAL GRADE.
C. WHERE VAULTS ARE SET INTO HILLSIDES OR SLOPED CUTS, THE DOWNHILL SIDE OF THE VAULT WILL BE GRADED ACCORDING TO A OR B ABOVE.
D. ALL VAULTS WILL BE INSTALLED SO THAT THE TOP PAD IS LEVEL.
E. PADS OR LIDS WILL BE PLACED AT THE TIME OF VAULT INSTALLATION UNLESS OTHERWISE REQUIRED BY HOLY CROSS ENERGY.
F. VAULTS ARE TO BE LOCATED BACK OF DRAIN SWALES NEAR PROPERTY LINES.
13. HOLES KNOCKED IN VAULTS FOR CONDUIT INSTALLATION SHALL BE AS SMALL AS POSSIBLE AND SHALL BE GROUTED CLOSED ON THE OUTSIDE OF THE VAULT PRIOR TO BACKFILL.
14. CONDUIT SHALL ENTER VAULTS PERPENDICULAR TO THE VAULT WALL AND ABOUT 2" ABOVE THE FLOOR OF THE VAULT.
15. CONDUIT WILL BE CUT OFF 2" TO 4" FROM THE INSIDE WALL OF THE VAULT.
16. PEDESTALS FOR OTHER UTILITIES SHALL NOT BE LOCATED CLOSER THAN 10 FEET TO A VAULT ON SIDES WHERE TRANSFORMERS OR SWITCHGEAR WILL HAVE ACCESS DOORS.
17. ALL ELECTRIC SERVICE STUBS TO BE MARKED WITH RED LATHE FOR ASBUILT SURVEY LOCATES.

SYMBOLS

- -- PROPOSED CENTERLINE
--- -- RIGHT OF WAY
===== EXISTING CURB & GUTTER
===== PROPOSED CURB & GUTTER
-6400- EXISTING CONTOUR
-6400- PROPOSED CONTOUR
- - - - PROPOSED EASEMENT
===== PROPOSED STORM SEWER (RCP/PP)
--- PWB --- PROPOSED 8" WATER MAIN (PVC)
--- PSS 15 --- PROPOSED 15" SAN. SEWER (PVC)
--- W --- W --- EXISTING WATER MAIN (PVC)
--- SS --- SS --- EXISTING SAN. SEWER MAIN (PVC)
===== EXISTING STORM SEWER (RCP/PP)
--- FO --- FO --- EXISTING FIBER OPTIC CABLE LINE
--- G --- G --- EXISTING GAS LINE
--- T --- T --- EXISTING TELEPHONE LINE
--- E --- E --- EXISTING ELECTRIC LINE
} PROPOSED PLUG
() PROPOSED MANHOLE
() PROPOSED FIRE HYDRANT
() EXISTING WATER VALVE
() PROPOSED WATER VALVE
() PROPOSED STORM INLET

ABBREVIATIONS:

Table with 3 columns: Abbreviation, Description, and Full Name. Includes terms like BS (BOTTOM OF STAIRS), BTM (BOTTOM), CL (CENTERLINE), CFS (CUBIC FEET PER SECOND), CONC (CONCRETE), CONST (CONSTRUCTION), CONT (CONTINUOUS), EA (EACH), EGL (ENERGY GRADE LINE), ELEV or EL (ELEVATION), ESMT (EASEMENT), EX or EXIST (EXISTING), FES (FLARED END SECTION), FFE (FINISH FLOOR ELEVATION), % or FL (FLOWLINE), FLG (FLANGE), FS (FINISH SURFACE), HGL (HYDRAULIC GRADE LINE), HP (HIGH POINT), INV (INVERT), K (VERTICAL CURVE FACTOR), LP (LINEAR FEET), LF (LOW POINT), LS (LANDSCAPING), LT (LEFT), MH (MANHOLE), NTS (NOT TO SCALE), P (PROPOSED), PC (POINT OF CURVATURE), PCC (POINT OF COMPOUND CURVE), PCR (POINT OF CURB RETURN), PRC (POINT OF REVERSE CURVE), PT (POINT OF TANGENCY), PVC (POINT OF VERTICAL CURVE or POLYVINYL CHLORIDE), PVI (POINT OF VERTICAL INTERSECTION), PVMT (PAVEMENT), PVT (POINT OF VERTICAL TANGENT), RC (REVERSE CROWN), RCP (REINFORCED CONCRETE PIPE), REQ (REQUIRED), ROW (RIGHT-OF-WAY), RT (RIGHT), SCH (SCHEDULE), SD (STORM SEWER), STA (STATION), STD (STANDARD), SS or SAN (SANITARY SEWER), SW or S/W (SIDEWALK), TAN (TANGENT), TBC (TOP BACK OF CURB), TFC (TOP FACE OF CURB), TOB (TOP OF BOX), TS (TOP OF STAIRS), TYP (TYPICAL), UTIL (UTILITY), VC (VERTICAL CURVE), WVD (WOLF VALLEY DRIVE).

Table with columns: REFERENCE DRAWINGS, No., DATE, DESCRIPTION, BY. Includes a section for REVISIONS and COMPUTER FILE MANAGEMENT with file name S:\17.946.001 (Pueblo Convention Center)\Dwg\Construction Plans\EDA Package\GN01.dwg.

Table with columns: No., DATE, DESCRIPTION, BY. Includes a section for REVISIONS and COMPUTER FILE MANAGEMENT.

Matrix DESIGN GROUP logo and contact information.

Table with columns: SEAL, EDA PROJECT NUMBER: 05-01-05793, HISTORIC ARKANSAS RIVERWALK OF PUEBLO GATEWAY PLAZA PROJECT, GENERAL NOTES, DESIGNED BY, DRAWN BY, CHECKED BY, SCALE, DATE ISSUED, DRAWING No. C101.



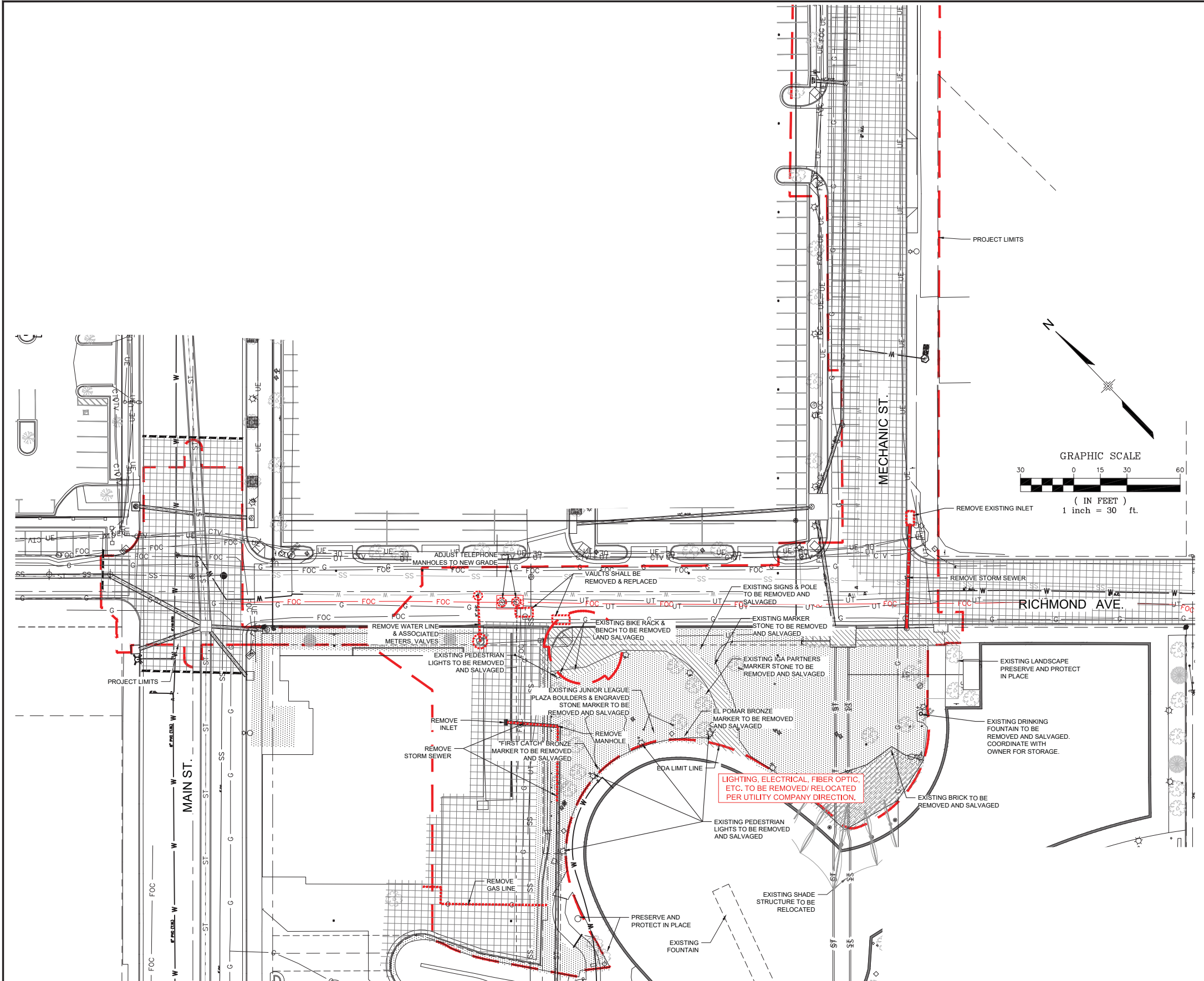
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LEGEND

- SAWCUT LINE
- UTILITY TO BE RELOCATED, REMOVED, OR MODIFIED. REF. NOTES ON PLAN
- PROJECT LIMITS
- EXISTING CONCRETE PAVING TO BE REMOVED & DISPOSED OFF-SITE
- EXISTING BRICK PAVING TO BE REMOVED & SALVAGED. COORDINATE WITH OWNER FOR STORAGE.
- EXISTING ROAD TO BE REMOVED & DISPOSED OFF-SITE. INCLUDES ALL ASPHALT PAVING, SUBBASE, CURB & GUTTER, ATTACHED SIDEWALK, ISLAND LANDSCAPING, AND MISCELLANEOUS IMPROVEMENTS IN PARKING LOT/ROAD.
- EXISTING TURF/LANDSCAPE AREAS TO BE REMOVED & DISPOSED OFF-SITE. COORDINATE WITH OWNER FOR RELOCATION OF CERTAIN PLANT MATERIALS AS DETERMINED IN THE FIELD PRIOR TO DEMOLITION.

EXISTING CONDITIONS & DEMOLITION NOTES

1. ALL EXISTING IMPROVEMENTS SHOWN ON THIS PLAN, IF NOT DESIGNATED TO BE REMOVED, SHALL BE SAVED AND PROTECTED.
2. UNLESS OTHERWISE NOTED, ALL EXISTING UTILITY BOXES (WATER VALVE BOXES, TELEPHONE BOXES, PULLBOXES, MANHOLES, ETC.) WITHIN THE LIMIT OF CONSTRUCTION SHALL BE ADJUSTED TO MATCH NEW FINISH GRADE, AS NECESSARY.
3. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE IMMEDIATELY.
4. ALL EXISTING SITE IMPROVEMENTS DESIGNATED TO REMAIN SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGE TO EXISTING ITEMS SHALL BE REPAIRED/REPLACED AT NO EXPENSE TO THE OWNER, AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
5. REFERENCE SITE IMPROVEMENTS AND LAYOUT PLAN FOR LAYOUT OF PROPOSED IMPROVEMENTS, IN ORDER TO DETERMINE THE EXACT EXTENT OF DEMOLITION AS SHOWN ON THIS PLAN.
6. LOCATE ALL EXISTING UTILITIES PRIOR TO DIGGING. IF ANY DISCREPANCIES BETWEEN EXISTING UTILITIES AND PROPOSED IMPROVEMENTS OCCUR, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY.
7. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE BEFORE COMMENCING WITH DEMOLITION.
8. ALL CONCRETE, ASPHALT, TURF, EXCAVATED MATERIAL, BUILDING DEBRIS, ETC. NOTED TO BE DEMOLISHED AND REMOVED SHALL BE DISPOSED OF PROPERLY OFF-SITE.
9. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROLS, FENCING AND SAFETY DEVICES NEEDED TO INSURE THE SAFETY AND WELFARE OF THE PUBLIC DURING CONSTRUCTION.
10. WHERE EXISTING UTILITIES ARE REMOVED OR RELOCATED, ALL PIPES, MANHOLES, INLETS, POLES, WIRERS AND MISCELLANEOUS APPURTENANCES SHALL BE INCLUDED IN THE REMOVAL/RELOCATION.
11. CONTRACTOR SHALL COORDINATE WITH ALL LOCAL UTILITY COMPANIES TO REMOVE AND/OR RELOCATE UTILITIES AS SHOWN ON PLAN.
12. PARKING LOTS DESIGNATED TO REMAIN SHALL REMAIN OPEN AND ACCESSIBLE AT ALL TIMES.
13. LIGHTING, ELECTRICAL, FIBER OPTIC, ETC. TO BE REMOVED/RELOCATED PER UTILITY COMPANY DIRECTION.
14. ALL ELEMENTS IDENTIFIED AS REMOVE AND SALVAGE SHALL BE COORDINATED WITH OWNER FOR STORAGE.



REFERENCE DRAWINGS			
X-481-TITLE-LANDSCAPE			
X-946-EX-BASE-COMBINED			
X-946-EX-MAP-COMBINED			
X-946-EX-BASE-COMBINED-G			
X-946-EX-UTIL-COMBINED			
No.	DATE	DESCRIPTION	BY
REVISIONS			
COMPUTER FILE MANAGEMENT			
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CTB FILE: ---			
PLOT DATE: 6/14/2018 2:18 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

PREPARED BY:

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 17.946.001

DESIGNED BY: ME
DRAWN BY: AL
CHECKED BY: GS

EDA PROJECT NUMBER: 05-01-05793			
HISTORIC ARKANSAS RIVERWALK OF PUEBLO GATEWAY PLAZA PROJECT			
DEMOLITION PLAN			
SCALE	DATE ISSUED:	JUNE 14, 2018	DRAWING No.
HORIZ N/A	SHEET	3 OF 31	C102



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LEGEND

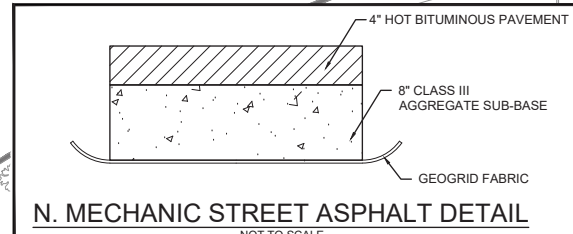
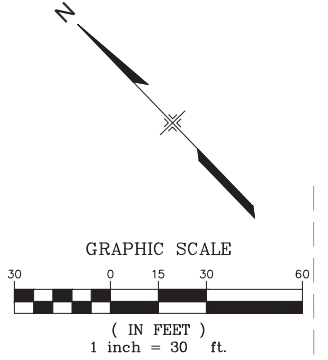
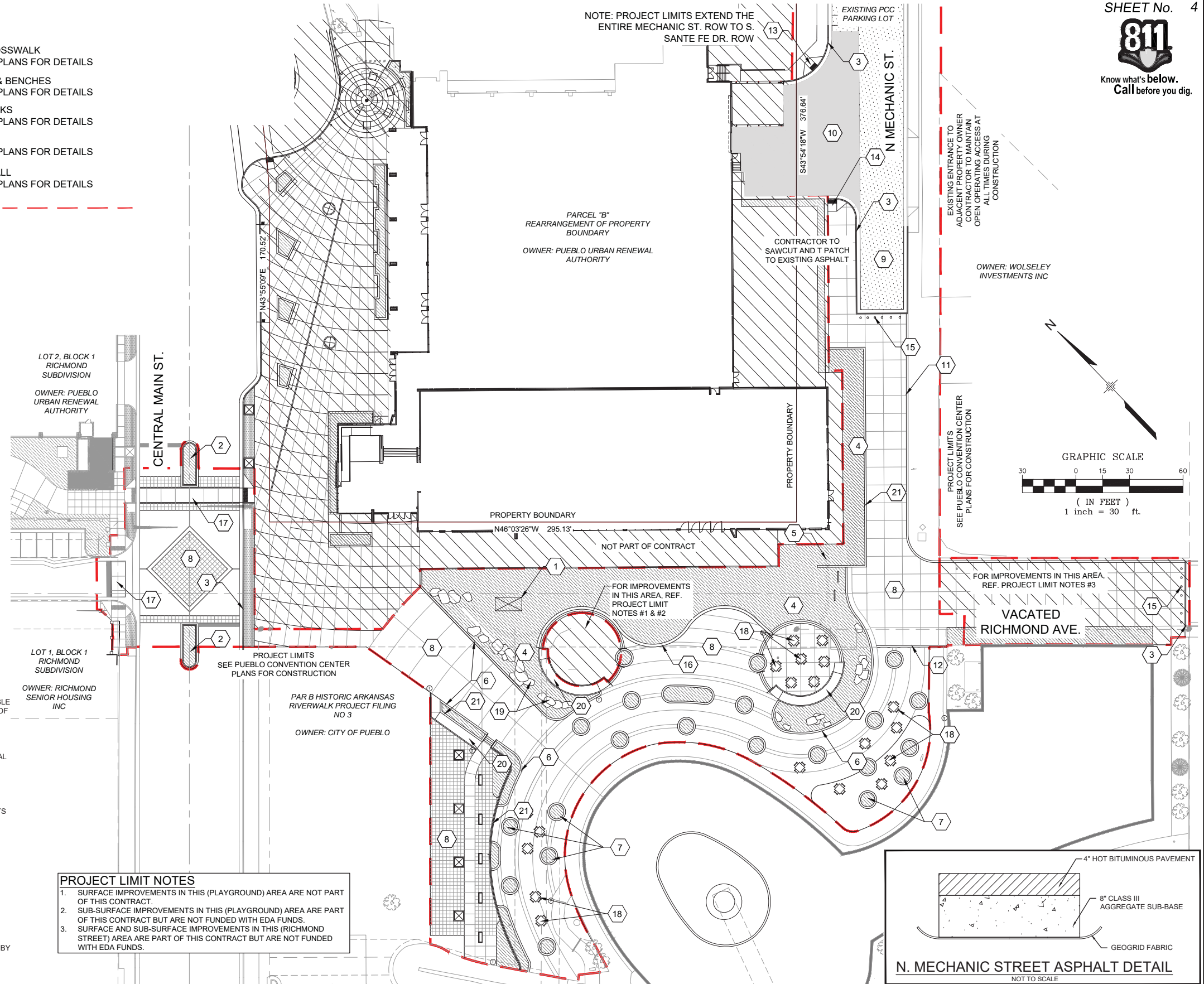
- 1 CAUTION : EXISTING FIBER OPTIC UTILITY BOX. CONTRACTOR TO INSTALL ACCESS LANE AND GRADE RINGS AS NEEDED TO MATCH PLAZA FINISHED GRADE
 - 2 RAISED MEDIAN WITH SPILL CURB AND GUTTER
 - 3 TYP. TYPE 2 CURB & GUTTER REFERENCE DETAIL SHEET
 - 4 LANDSCAPING SEE LANDSCAPE PLANS FOR DETAILS
 - 5 SANDSTONE WALL SEE LANDSCAPE PLANS FOR DETAILS
 - 6 6" CURB HEAD SEE LANDSCAPE PLANS FOR DETAIL
 - 7 RAISED PLANTER SEE LANDSCAPE PLANS FOR DETAILS
 - 8 SPECIAL PLAZA PAVEMENT SEE LANDSCAPE PLANS FOR DETAILS
 - 9 CONTRACTOR TO REMOVE FULL WIDTH ASPHALT IN N. MECHANIC ST AND INSTALL 7" ASPHALT ON 8" ABC PER GEOTECH RECOMMENDATION
 - 10 7" 4000 PSI CONCRETE ON 4" ABC FOR LOADING AREA AND LOAD TRANSFER DOWEL BARS
 - 11 12" CONCRETE RIBBON CURB
 - 12 CONCRETE BAND SEE LANDSCAPE PLANS FOR DETAILS
 - 13 4' PED RAMP SEE DETAIL SHEET
 - 14 5' PED RAMP SEE DETAIL SHEET
 - 15 REMOVABLE BOLLARDS SEE LANDSCAPE PLANS FOR DETAILS
 - 16 FREE-STANDING WALL SEE LANDSCAPE PLANS FOR DETAILS
 - 17 8" SPECIALTY CROSSWALK SEE LANDSCAPE PLANS FOR DETAILS
 - 18 SITE FURNITURE & BENCHES SEE LANDSCAPE PLANS FOR DETAILS
 - 19 DECORATIVE ROCKS SEE LANDSCAPE PLANS FOR DETAILS
 - 20 SLOPING WALKS SEE LANDSCAPE PLANS FOR DETAILS
 - 21 LANDSCAPING WALL SEE LANDSCAPE PLANS FOR DETAILS
- PROJECT LIMITS - - - - -

GENERAL/ROADWAY NOTES

1. BEFORE EXCAVATING, CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES.
2. 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 PROFESSIONAL AUTHORIZED TO PRACTICE LAND SURVEYING.
3. ALL TRAFFIC SIGNS, PAVEMENT MARKINGS, AND TRAFFIC SIGNALS SHALL MEET OR EXCEED MUTCD STANDARDS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING AND MAINTAINING THE TEMPORARY TRAFFIC CONTROL DEVICES THROUGHOUT THE DURATION OF THE PROJECT.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NEW, TEMPORARY AND EXISTING SIGNAL MODIFICATIONS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR OVERLAYING OR CHIP SEALING ROADWAY. IF SCARRING OCCURS DURING REMOVAL OF EXISTING OR TEMPORARY PAVEMENT MARKINGS THE ENGINEER AND CITY ENGINEER WILL DETERMINE THE METHOD OF PAVEMENT REPAIR.
7. ALL LONGITUDINAL LINES SHALL BE A MINIMUM OF 15MIL THICKNESS EPOXY (UNLESS OTHERWISE NOTED).
8. THE FOLLOWING SHALL BE FURNISHED WITH EACH BITUMINOUS PAVER. THIS DEVICE SHALL BE USED ON ALL PASSES AND LIFTS OF BITUMINOUS PAVEMENT PLACED.
 - 8.1. SKI TYPE DEVICE 30 FEET IN LENGTH
 - 8.2. SHORT SKI OR SHOE
 - 8.3. CONTROL LINE AND STAKES, SUFFICIENT FOR EACH PHASE
9. AN LAYER OF BITUMINOUS PAVEMENT THAT IS TO HAVE SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED FULL WIDTH BEFORE SUCCEEDING LAYER IS PLACED.
10. 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.
11. CONTRACTOR IS TO CONTACT TRAFFIC ENGINEERING TO ARRANGE FOR THE REMOVAL AND REPLACEMENT OF ANY SIGN CONFLICTING WITH CONSTRUCTION.
12. WHERE PAVEMENT IS TO ABUT EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE REMOVED TO A NEAT VERTICAL LINE BY FULL DEPTH SAWING. THE CONTRACTOR WILL BE REQUIRED TO PAIN THE EDGE OF THE CUT PAVEMENT WITH DILUTED EMULSIFIED ASPHALT PRIOR TO PAVING OPERATIONS. VERTICAL EDGES SHALL NOT REMAIN OVERNIGHT.

PROJECT LIMIT NOTES

1. SURFACE IMPROVEMENTS IN THIS (PLAYGROUND) AREA ARE NOT PART OF THIS CONTRACT.
2. SUB-SURFACE IMPROVEMENTS IN THIS (PLAYGROUND) AREA ARE PART OF THIS CONTRACT BUT ARE NOT FUNDED WITH EDA FUNDS.
3. SURFACE AND SUB-SURFACE IMPROVEMENTS IN THIS (RICHMOND STREET) AREA ARE PART OF THIS CONTRACT BUT ARE NOT FUNDED WITH EDA FUNDS.



REFERENCE DRAWINGS	No.	DATE	DESCRIPTION	BY
X-946-EX-BASE-COMBINED				
X-946-EX-MAP-COMBINED				
X-946-PR-BASE				
X-946-PR-BASE - PARKING GARAGE				
X-479-PR-BASE - Gateway Park				
X-MAIN INTERSECTION				
X-481-TITLE-LANDSCAPE				
X-PR-LIMIT-Gateway Park				
COMPUTER FILE MANAGEMENT				
FILE NAME: S:\17.946.001 (Pueblo Convention Center)\Dwg\Construction Plans\EDA Package\SP01.dwg				
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EDA PROJECT NUMBER: 05-01-05793			
HISTORIC ARKANSAS RIVERWALK OF PUEBLO GATEWAY PLAZA PROJECT			
SITE PLAN			
DESIGNED BY: ME	SCALE: 1" = 30'	DATE ISSUED: JUNE 14, 2018	DRAWING No. C103
DRAWN BY: AL	HORIZ: N/A	SHEET 4 OF 31	
CHECKED BY: GS	VERT: N/A		



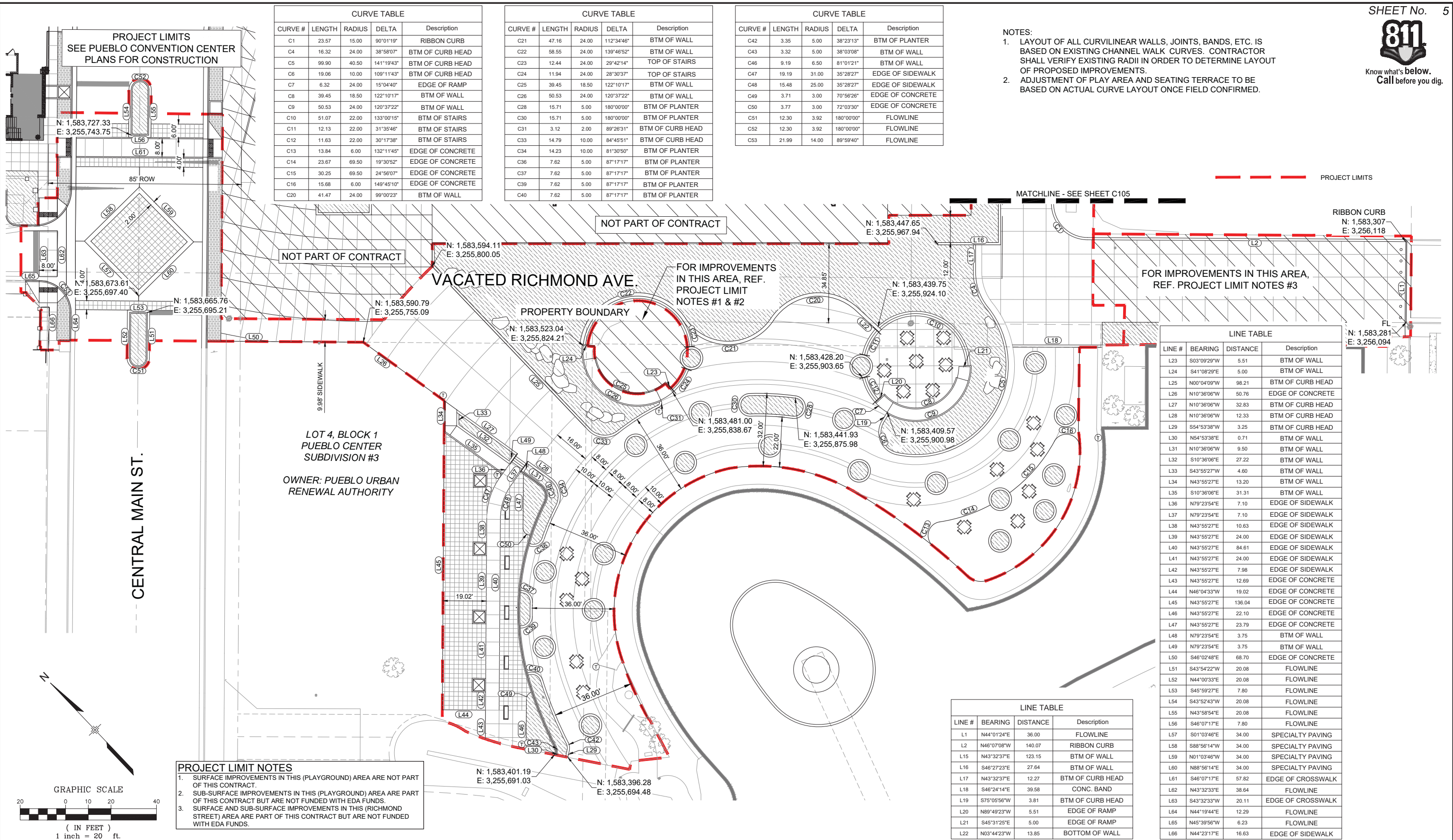
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CURVE #	LENGTH	RADIUS	DELTA	Description
C1	23.57	15.00	90°01'19"	RIBBON CURB
C4	16.32	24.00	38°58'07"	BTM OF CURB HEAD
C5	99.90	40.50	141°19'43"	BTM OF CURB HEAD
C6	19.06	10.00	109°11'43"	BTM OF CURB HEAD
C7	6.32	24.00	15°04'40"	EDGE OF RAMP
C8	39.45	18.50	122°10'17"	BTM OF WALL
C9	50.53	24.00	120°37'22"	BTM OF WALL
C10	51.07	22.00	133°00'15"	BTM OF STAIRS
C11	12.13	22.00	31°35'46"	BTM OF STAIRS
C12	11.63	22.00	30°17'38"	BTM OF STAIRS
C13	13.84	6.00	132°11'45"	EDGE OF CONCRETE
C14	23.67	69.50	19°30'52"	EDGE OF CONCRETE
C15	30.25	69.50	24°56'07"	EDGE OF CONCRETE
C16	15.68	6.00	149°45'10"	EDGE OF CONCRETE
C20	41.47	24.00	99°00'23"	BTM OF WALL

CURVE #	LENGTH	RADIUS	DELTA	Description
C21	47.16	24.00	112°34'46"	BTM OF WALL
C22	58.55	24.00	139°46'52"	BTM OF WALL
C23	12.44	24.00	29°42'14"	TOP OF STAIRS
C24	11.94	24.00	28°30'37"	TOP OF STAIRS
C25	39.45	18.50	122°10'17"	BTM OF WALL
C26	50.53	24.00	120°37'22"	BTM OF WALL
C28	15.71	5.00	180°00'00"	BTM OF PLANTER
C30	15.71	5.00	180°00'00"	BTM OF PLANTER
C31	3.12	2.00	89°26'31"	BTM OF CURB HEAD
C33	14.79	10.00	84°45'51"	BTM OF CURB HEAD
C34	14.23	10.00	81°30'50"	BTM OF PLANTER
C36	7.62	5.00	87°17'17"	BTM OF PLANTER
C37	7.62	5.00	87°17'17"	BTM OF PLANTER
C39	7.62	5.00	87°17'17"	BTM OF PLANTER
C40	7.62	5.00	87°17'17"	BTM OF PLANTER

CURVE #	LENGTH	RADIUS	DELTA	Description
C42	3.35	5.00	38°23'13"	BTM OF PLANTER
C43	3.32	5.00	38°03'08"	BTM OF WALL
C46	9.19	6.50	81°01'21"	BTM OF WALL
C47	19.19	31.00	35°28'27"	EDGE OF SIDEWALK
C48	15.48	25.00	35°28'27"	EDGE OF SIDEWALK
C49	3.71	3.00	70°56'26"	EDGE OF CONCRETE
C50	3.77	3.00	72°03'30"	EDGE OF CONCRETE
C51	12.30	3.92	180°00'00"	FLOWLINE
C52	12.30	3.92	180°00'00"	FLOWLINE
C53	21.99	14.00	89°59'40"	FLOWLINE

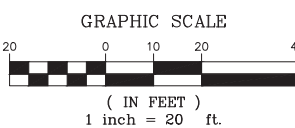
- NOTES:
- LAYOUT OF ALL CURVILINEAR WALLS, JOINTS, BANDS, ETC. IS BASED ON EXISTING CHANNEL WALK CURVES. CONTRACTOR SHALL VERIFY EXISTING RADII IN ORDER TO DETERMINE LAYOUT OF PROPOSED IMPROVEMENTS.
 - ADJUSTMENT OF PLAY AREA AND SEATING TERRACE TO BE BASED ON ACTUAL CURVE LAYOUT ONCE FIELD CONFIRMED.



LINE #	BEARING	DISTANCE	Description
L23	S03°09'29"W	5.51	BTM OF WALL
L24	S41°08'29"E	5.00	BTM OF WALL
L25	N00°04'09"W	98.21	BTM OF CURB HEAD
L26	N10°36'06"W	50.76	EDGE OF CONCRETE
L27	N10°36'06"W	32.83	BTM OF CURB HEAD
L28	N10°36'06"W	12.33	BTM OF CURB HEAD
L29	S54°53'38"W	3.25	BTM OF CURB HEAD
L30	N54°53'38"E	0.71	BTM OF WALL
L31	N10°36'06"W	9.50	BTM OF WALL
L32	S10°36'06"E	27.22	BTM OF WALL
L33	S43°55'27"W	4.60	BTM OF WALL
L34	N43°55'27"E	13.20	BTM OF WALL
L35	S10°36'06"E	31.31	BTM OF WALL
L36	N79°23'54"E	7.10	EDGE OF SIDEWALK
L37	N79°23'54"E	7.10	EDGE OF SIDEWALK
L38	N43°55'27"E	10.63	EDGE OF SIDEWALK
L39	N43°55'27"E	24.00	EDGE OF SIDEWALK
L40	N43°55'27"E	84.61	EDGE OF SIDEWALK
L41	N43°55'27"E	24.00	EDGE OF SIDEWALK
L42	N43°55'27"E	7.98	EDGE OF SIDEWALK
L43	N43°55'27"E	12.69	EDGE OF CONCRETE
L44	N46°04'33"W	19.02	EDGE OF CONCRETE
L45	N43°55'27"E	136.04	EDGE OF CONCRETE
L46	N43°55'27"E	22.10	EDGE OF CONCRETE
L47	N43°55'27"E	23.79	EDGE OF CONCRETE
L48	N79°23'54"E	3.75	BTM OF WALL
L49	N79°23'54"E	3.75	BTM OF WALL
L50	S46°02'48"E	68.70	EDGE OF CONCRETE
L51	S43°54'22"W	20.08	FLOWLINE
L52	N44°00'33"E	20.08	FLOWLINE
L53	S45°59'27"E	7.80	FLOWLINE
L54	S43°52'43"W	20.08	FLOWLINE
L55	N43°58'54"E	20.08	FLOWLINE
L56	S46°07'17"E	7.80	FLOWLINE
L57	S01°03'46"E	34.00	SPECIALTY PAVING
L58	S88°56'14"W	34.00	SPECIALTY PAVING
L59	N01°03'46"W	34.00	SPECIALTY PAVING
L60	N88°56'14"E	34.00	SPECIALTY PAVING
L61	S46°07'17"E	57.82	EDGE OF CROSSWALK
L62	N43°32'33"E	38.64	FLOWLINE
L63	S43°32'33"W	20.11	EDGE OF CROSSWALK
L64	N44°19'44"E	12.29	FLOWLINE
L65	N45°39'56"W	6.23	FLOWLINE
L66	N44°23'17"E	16.63	EDGE OF SIDEWALK

LINE #	BEARING	DISTANCE	Description
L1	N44°01'24"E	36.00	FLOWLINE
L2	N46°07'08"W	140.07	RIBBON CURB
L15	N43°32'37"E	123.15	BTM OF WALL
L16	S46°27'23"E	27.64	BTM OF WALL
L17	N43°32'37"E	12.27	BTM OF CURB HEAD
L18	S46°24'14"E	39.58	CONC. BAND
L19	S75°05'56"W	3.81	BTM OF CURB HEAD
L20	N89°49'23"W	5.51	EDGE OF RAMP
L21	S45°31'25"E	5.00	EDGE OF RAMP
L22	N03°44'23"W	13.85	BOTTOM OF WALL

- PROJECT LIMIT NOTES**
- SURFACE IMPROVEMENTS IN THIS (PLAYGROUND) AREA ARE NOT PART OF THIS CONTRACT.
 - SUB-SURFACE IMPROVEMENTS IN THIS (PLAYGROUND) AREA ARE PART OF THIS CONTRACT BUT ARE NOT FUNDED WITH EDA FUNDS.
 - SURFACE AND SUB-SURFACE IMPROVEMENTS IN THIS (RICHMOND STREET) AREA ARE PART OF THIS CONTRACT BUT ARE NOT FUNDED WITH EDA FUNDS.



No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\17.946.001 (Pueblo Convention Center)\Dwg\Construction Plans\EDA Package\HCP01.dwg			
CTB FILE: ---			
PLOT DATE: 6/14/2018 2:19 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			



EDA PROJECT NUMBER: 05-01-05793

HISTORIC ARKANSAS RIVERWALK OF PUEBLO GATEWAY PLAZA PROJECT

HORIZONTAL CONTROL PLAN

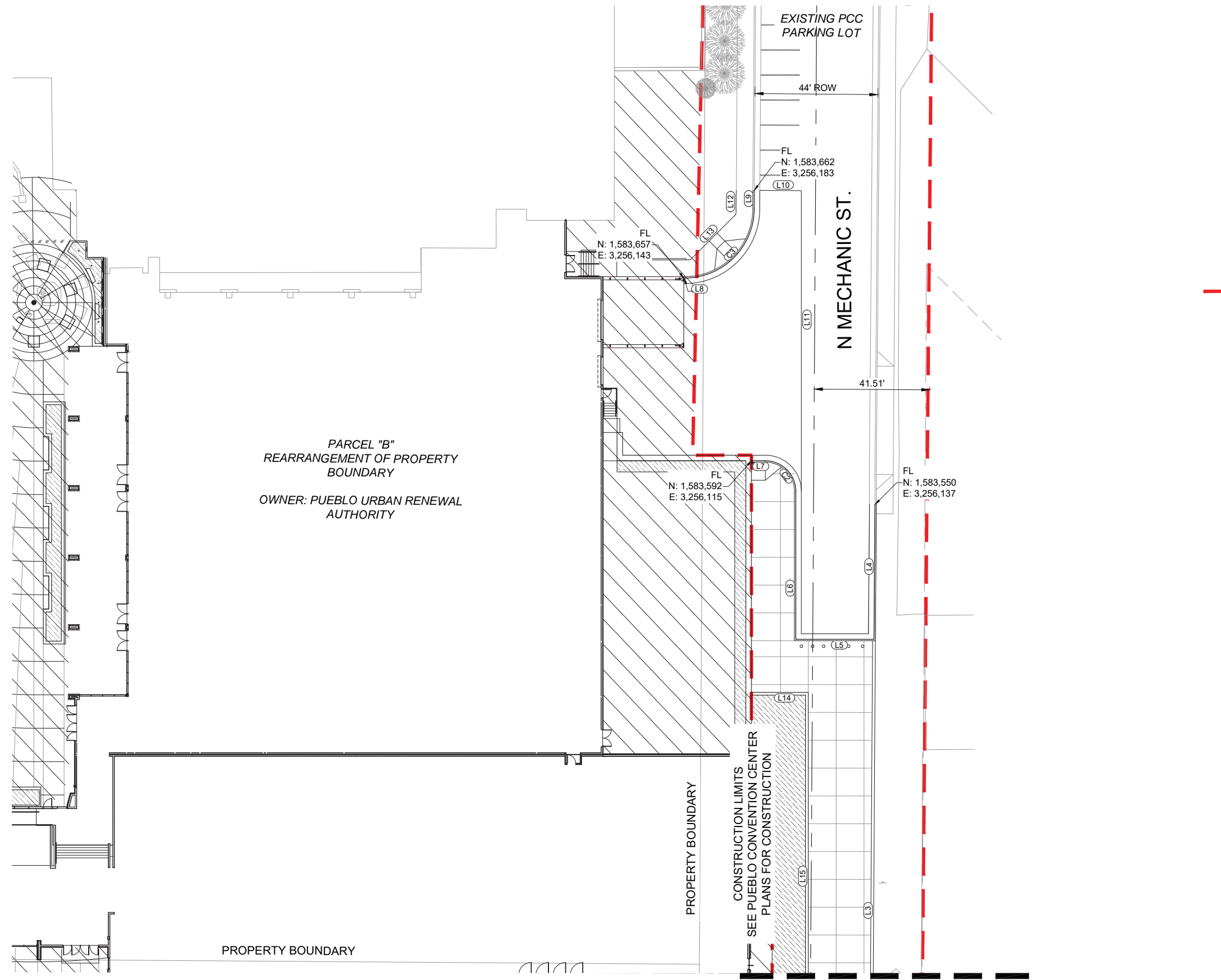
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 17.946.001

DESIGNED BY: ME AL SCALE: HORIZ 1"=20' DATE ISSUED: JUNE 14, 2018 DRAWING No. C104

CHECKED BY: GS VERT. N/A SHEET 5 OF 31



Know what's below.
Call before you dig.



PARCEL "B"
REARRANGEMENT OF PROPERTY
BOUNDARY
OWNER: PUEBLO URBAN RENEWAL
AUTHORITY

PROPERTY BOUNDARY

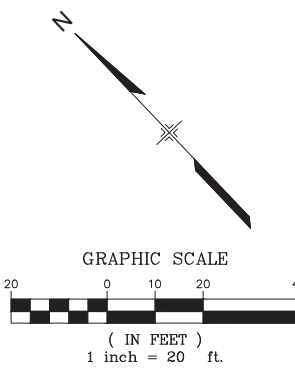
CONSTRUCTION LIMITS
SEE PUEBLO CONVENTION CENTER
PLANS FOR CONSTRUCTION

MATCHLINE - SEE SHEET C104

--- PROJECT LIMITS

CURVE TABLE				
CURVE #	LENGTH	RADIUS	DELTA	Description
C2	17.28	11.00	90°00'00"	FLOWLINE
C3	39.17	25.00	89°46'50"	FLOWLINE

LINE TABLE			
LINE #	BEARING	DISTANCE	Description
L3	N43°54'11"E	123.39	RIBBON CURB
L4	N43°59'55"E	48.53	FLOWLINE
L5	N46°27'23"W	28.10	FLOWLINE
L6	N43°32'37"E	53.20	FLOWLINE
L7	N46°27'23"W	4.93	FLOWLINE
L8	S46°27'23"E	0.28	FLOWLINE
L9	N43°45'47"E	6.61	FLOWLINE
L10	S46°05'08"E	14.92	EDGE OF CONCRETE
L11	S43°32'37"W	108.09	EDGE OF CONCRETE
L12	N44°12'51"E	6.61	SIDEWALK
L13	N88°39'12"E	22.98	SIDEWALK
L14	N46°27'23"W	20.43	BTM OF WALL



REFERENCE DRAWINGS	No.	DATE	DESCRIPTION	BY
X-946-PR-BASE				
X-946-EX-BASE-COMBINED				
X-946-EX-MAP-COMBINED				
X-946-PR-BASE - PARKING GARAGE				
X-479-PR-BASE - Gateway Park				
X-MAIN INTERSECTION				
X-481-TITLE-LANDSCAPE				
X-PR-LIMIT-Gateway Park				

COMPUTER FILE MANAGEMENT	
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CTB FILE:	---
PLOT DATE:	6/14/2018 2:19 PM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.	

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PREPARED BY:

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 17.946.001

EDA PROJECT NUMBER: 05-01-05793			
HISTORIC ARKANSAS RIVERWALK OF PUEBLO GATEWAY PLAZA PROJECT			
HORIZONTAL CONTROL PLAN			
DESIGNED BY:	ME	SCALE:	DATE ISSUED:
DRAWN BY:	AL	HORIZ. 1" = 20'	JUNE 14, 2018
CHECKED BY:	GS	VERT. N/A	SHEET 6 OF 31
DRAWING No. C105			



Know what's below.
Call before you dig.

NOTE:
SURFACE IMPROVEMENTS IN RED DASHED AREA IN DETAIL "B"
ARE NOT IN CONTRACT, BUT SUB-SURFACE IMPROVEMENTS
ARE (I.E. GRADE & DRAINS) FUNDED BY NON-EDA FUNDS

NOTE:

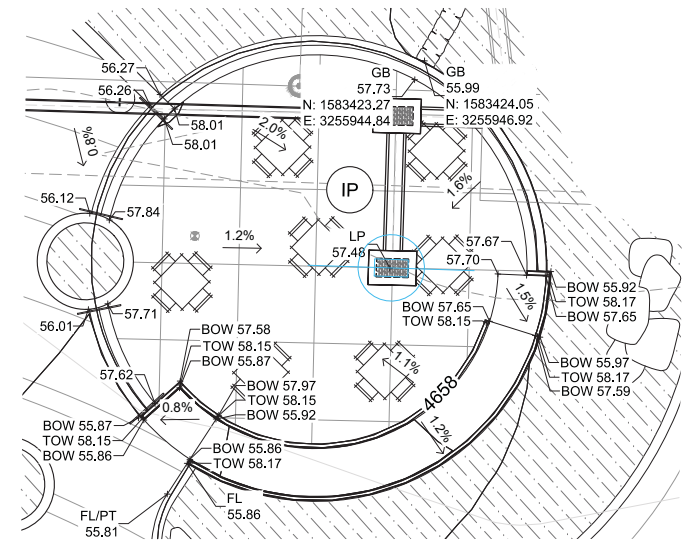
NO CROSS LOT DRAINAGE PERMITTED. STORMWATER SHALL BE DIRECTED TO THE
NEAREST RIGHT-OF-WAY (STREETS AND ALLEYS), DEDICATED DRAINAGE EASEMENTS,
AND/OR CITY OF PUEBLO STORMWATER CONVEYANCE SYSTEM.

TYPICAL PED RAMP NOTES

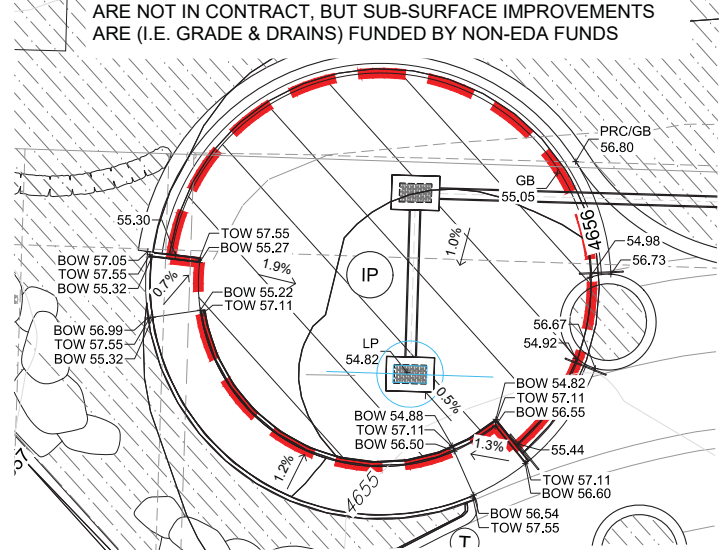
1. INSTALL 24" DETECTABLE WARNING AREA WITH TRUNCATED DOMES FOR FULL WIDTH OF RAMP
2. MAXIMUM WIND SLOPE NOT TO EXCEED 12'-1
3. RAMP SHALL ALIGN WITH RAMP ACROSS STREET
4. LANDING SHALL NOT EXCEED 2% IN ALL DIRECTIONS
5. PAVERS SHALL BE CUT TO MATCH CURB RADIUS WITH MIN 1/16" JOINT SPACING
6. PROVIDE EXPANSION JOINTS OF LANDING AND AT TRANSITION TO SIDEWALK

LEGEND

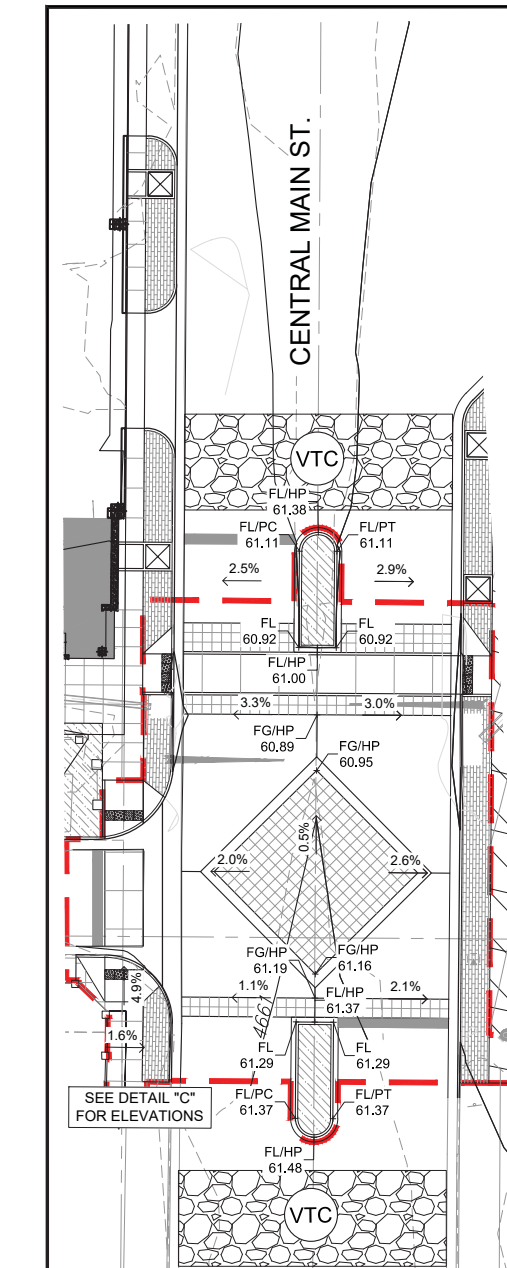
- PROPOSED CONTOURS
- EXISTING CONTOURS
- IP INLET PROTECTION
- VTC VEHICLE TRACKING PAD
- TM TEMPORARY SEEDING & MULCH
- PROJECT LIMITS



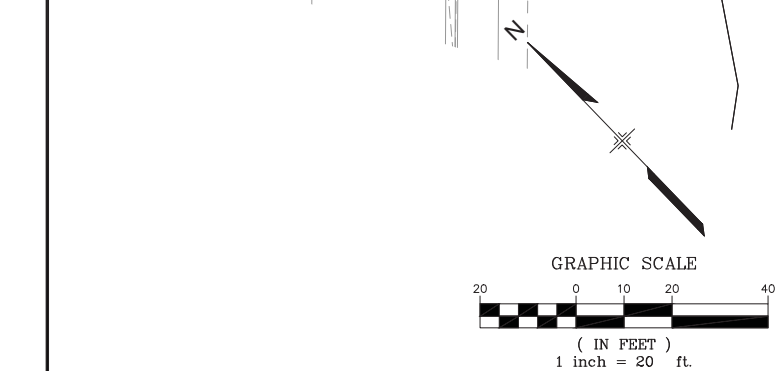
DETAIL "A"
1"=10"



DETAIL "B"
1"=10"

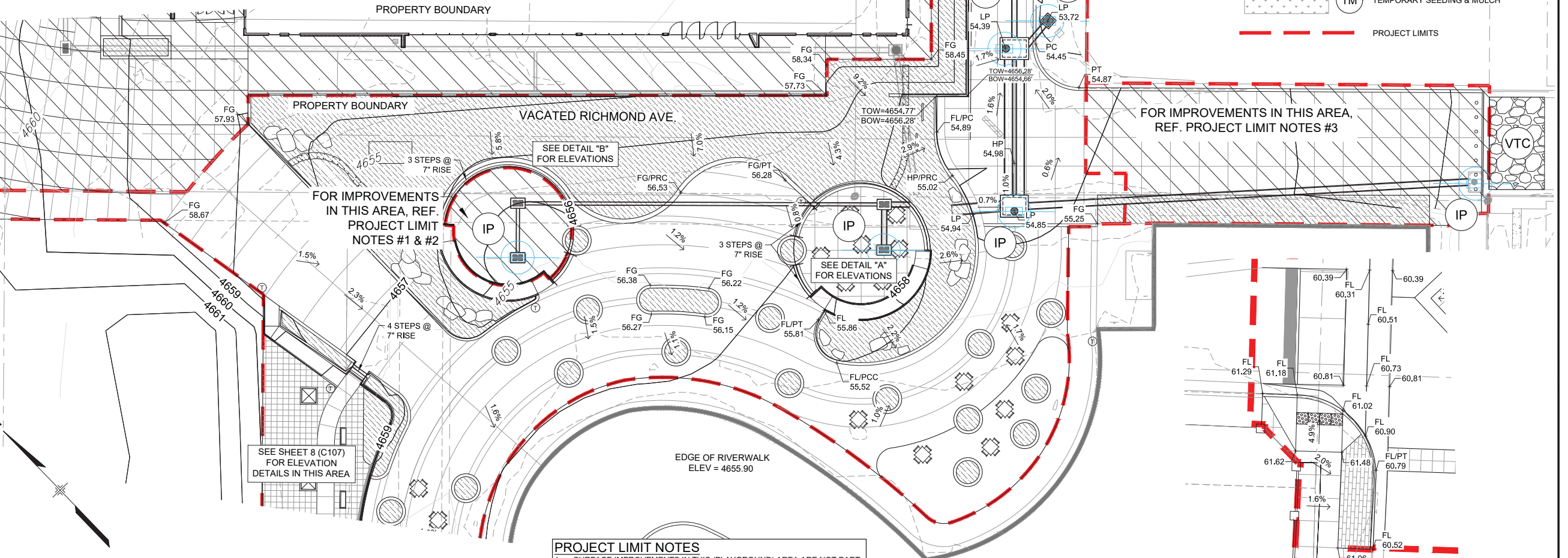


CONSTRUCTION LIMITS
SEE PUEBLO CONVENTION CENTER
PLANS FOR CONSTRUCTION



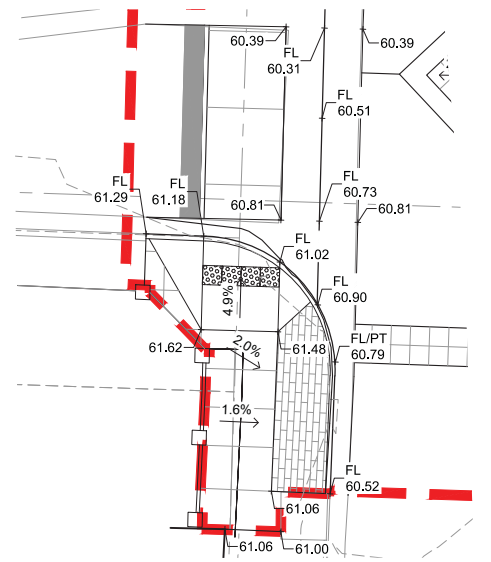
REFERENCE DRAWINGS	No.	DATE	DESCRIPTION	BY
X-946-PR-BASE				
X-946-EX-BASE-COMBINED				
X-946-EX-MAP-COMBINED				
X-946-PR-UTIL				
X-946-PR-BASE - PARKING GARAGE				
X-473-PR-BASE - Gateway Park				
X-MAIN INTERSECTION				
X-946-EX-BASE-COMBINED-Gateway Park				
X-461-TITLE-LANDSCAPE				
X-PR-LIMIT-Gateway Park				

COMPUTER FILE MANAGEMENT	
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PLOT DATE:	6/14/2018 2:28 PM
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PROJECT LIMIT NOTES

1. SURFACE IMPROVEMENTS IN THIS (PLAYGROUND) AREA ARE NOT PART OF THIS CONTRACT.
2. SUB-SURFACE IMPROVEMENTS IN THIS (PLAYGROUND) AREA ARE PART OF THIS CONTRACT BUT ARE NOT FUNDED WITH EDA FUNDS.
3. SURFACE AND SUB-SURFACE IMPROVEMENTS IN THIS (RICHMOND STREET) AREA ARE PART OF THIS CONTRACT BUT ARE NOT FUNDED WITH EDA FUNDS.



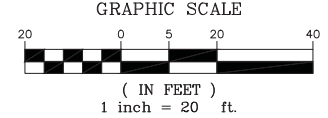
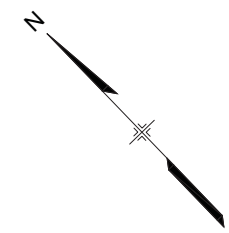
DETAIL "C"
1"=10"



SEAL	EDA PROJECT NUMBER: 05-01-05793		
	HISTORIC ARKANSAS RIVERWALK OF PUEBLO GATEWAY PLAZA PROJECT		
	DETAILED GRADING PLAN		
DESIGNED BY: ME	SCALE: 1"=20'	DATE ISSUED: JUNE 14, 2018	DRAWING No. C106
DRAWN BY: AL	HORIZ: 1"=20'	SHEET 7 OF 31	
CHECKED BY: GS	VERT: N/A		

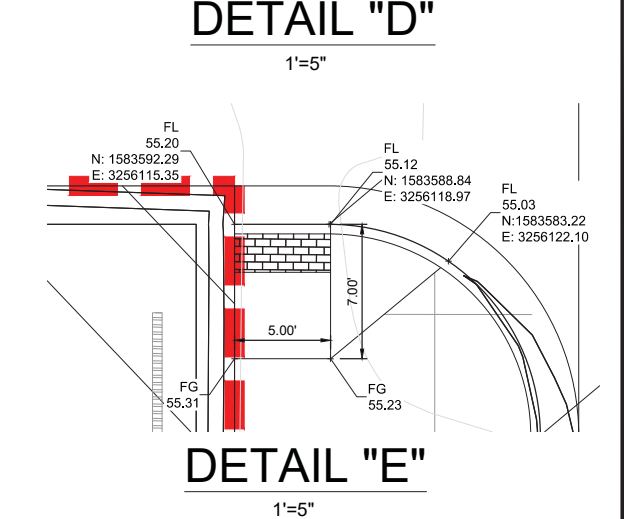
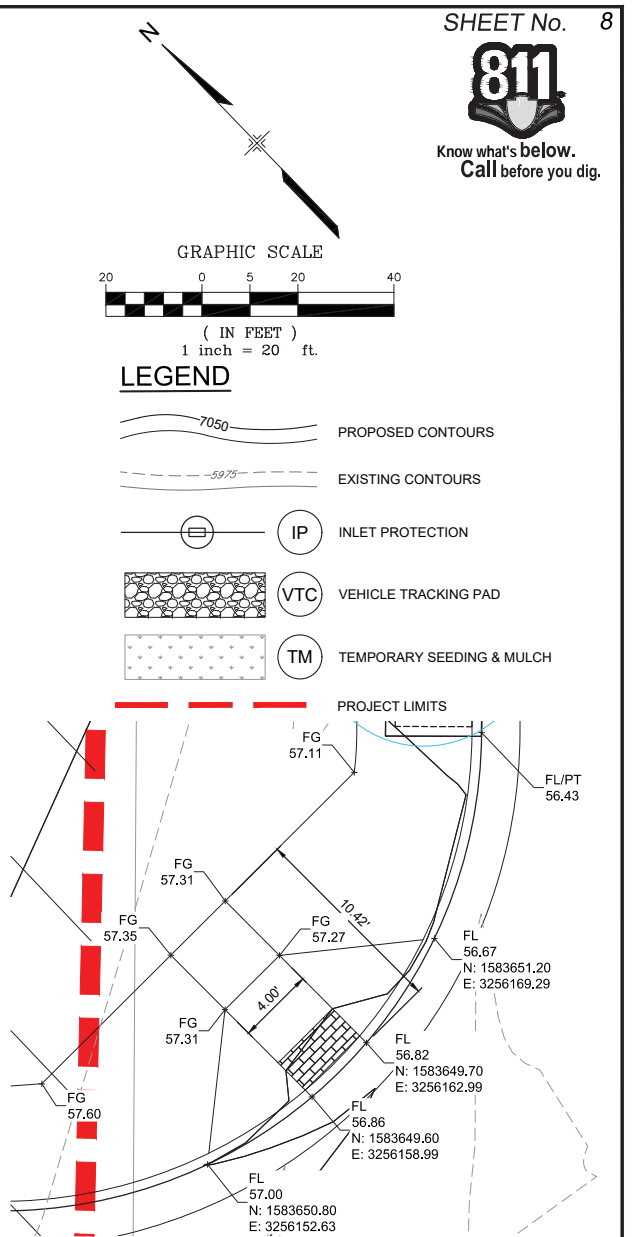
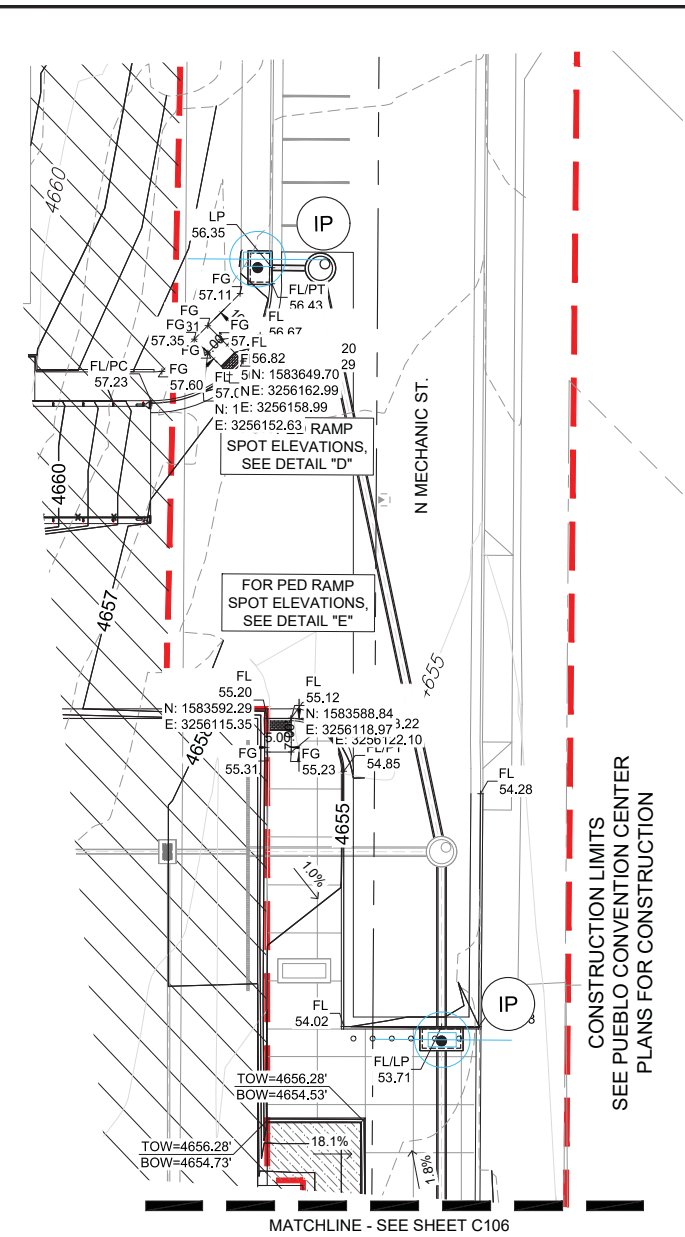
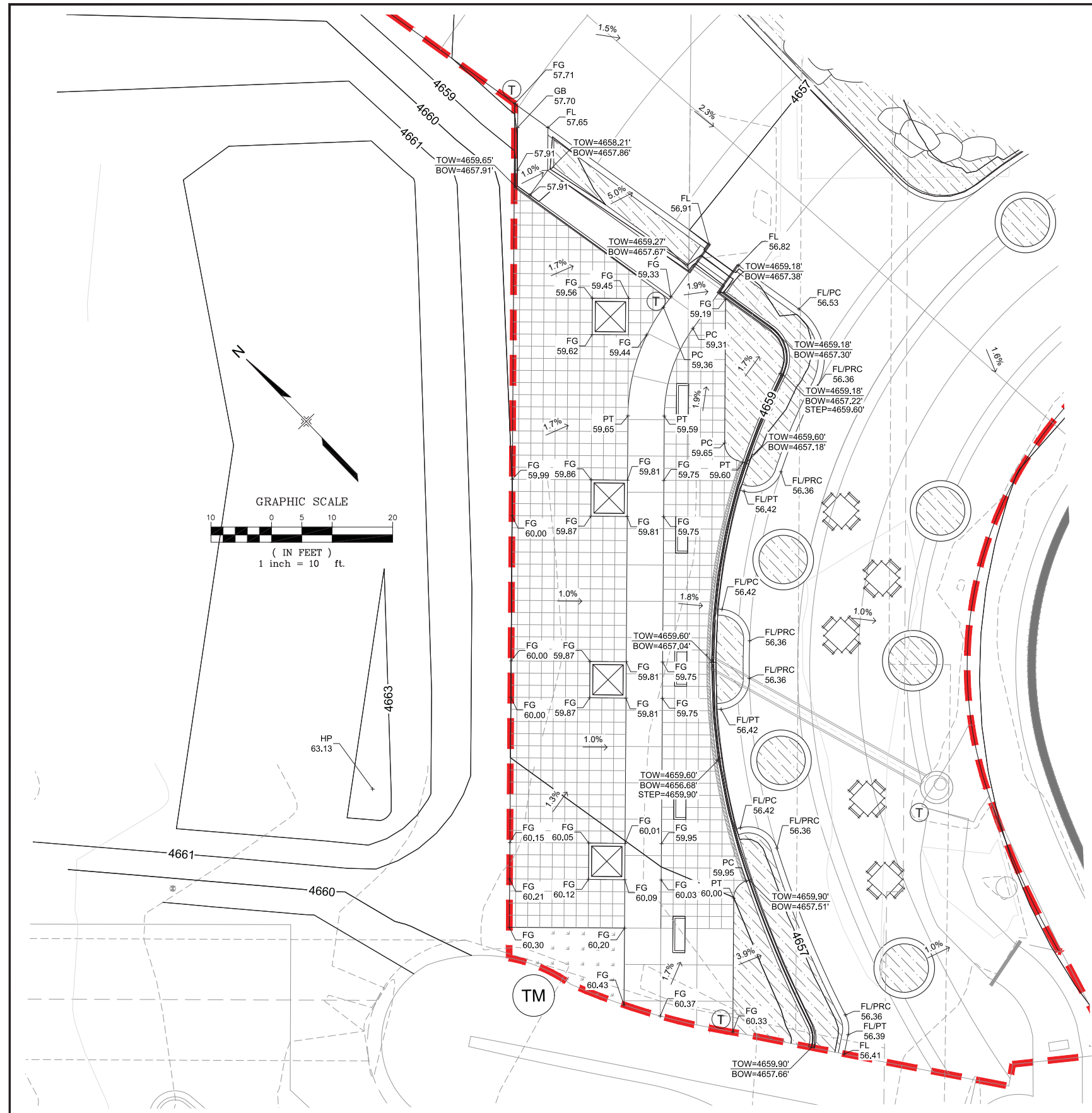


Know what's below.
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LEGEND

	PROPOSED CONTOURS
	EXISTING CONTOURS
	INLET PROTECTION
	VEHICLE TRACKING PAD
	TEMPORARY SEEDING & MULCH



NOTE:
NO CROSS LOT DRAINAGE PERMITTED. STORMWATER SHALL BE DIRECTED TO THE NEAREST RIGHT-OF-WAY (STREETS AND ALLEYS), DEDICATED DRAINAGE EASEMENTS, AND/OR CITY OF PUEBLO STORMWATER CONVEYANCE SYSTEM.

- TYPICAL PED RAMP NOTES**
1. INSTALL 24" DETECTABLE WARNING AREA WITH TRUNCATED DOMES FOR FULL WIDTH OF RAMP
 2. MAXIMUM WIND SLOPE NOT TO EXCEED 12'-1
 3. RAMP SHALL ALIGN WITH RAMP ACROSS STREET
 4. LANDING SHALL NOT EXCEED 2% IN ALL DIRECTIONS
 5. PAVERS SHALL BE CUT TO MATCH CURB RADIUS WITH MIN 1/16" JOINT SPACING
 6. PROVIDE EXPANSION JOINTS OF LANDING AND AT TRANSITION TO SIDEWALK

REFERENCE DRAWINGS	No.	DATE	DESCRIPTION	BY
X-946-PR-BASE				
X-946-EX-BASE-COMBINED				
X-946-EX-MAP-COMBINED				
X-946-PR-UTIL				
X-946-PR-BASE - PARKING GARAGE				
X-473-PR-BASE - Gateway Park				
X-MAIN INTERSECTION				
X-946-EX-BASE-COMBINED-Gateway Park				
X-461-TITLE-LANDSCAPE				
X-PR-LIMIT-Gateway Park				

COMPUTER FILE MANAGEMENT	
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SEAL

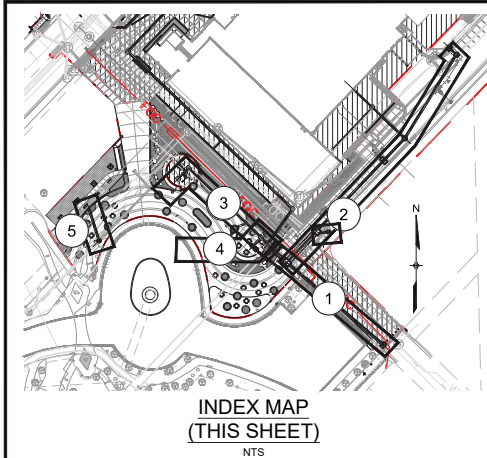
PREPARED BY:

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 17.946.001

EDA PROJECT NUMBER: 05-01-05793			
HISTORIC ARKANSAS RIVERWALK OF PUEBLO GATEWAY PLAZA PROJECT			
DETAILED GRADING PLAN			
DESIGNED BY:	ME	SCALE:	DATE ISSUED:
DRAWN BY:	AL	HORIZ. VARIES	JUNE 14, 2018
CHECKED BY:	GS	VERT. N/A	8 OF 31
			DRAWING No. C107

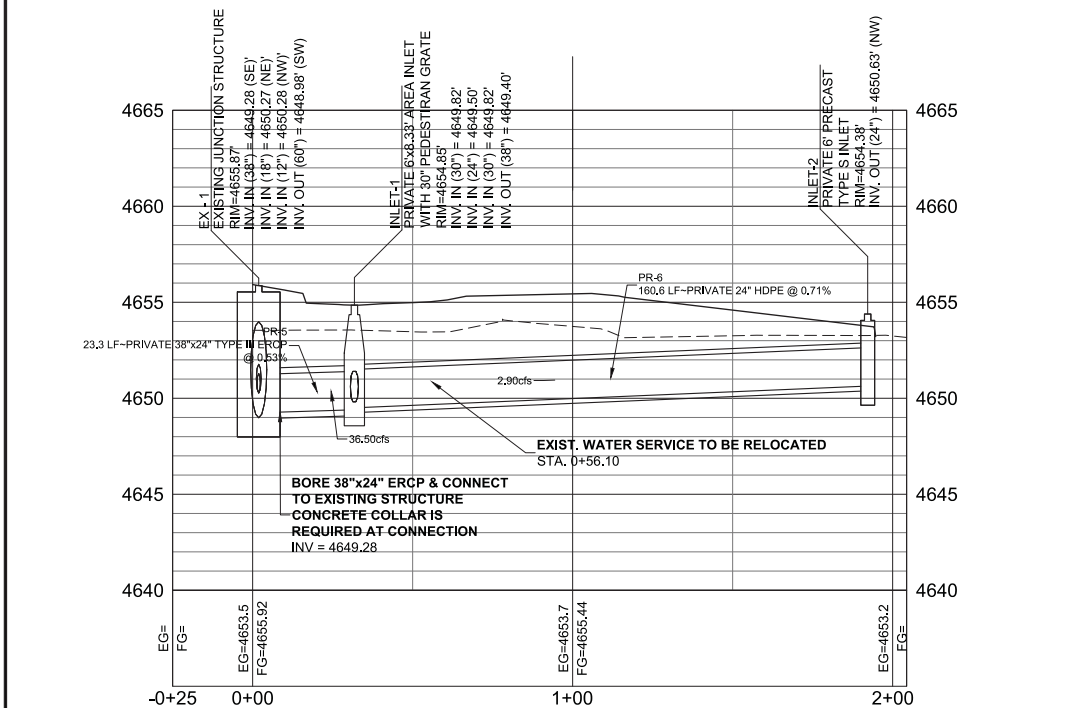
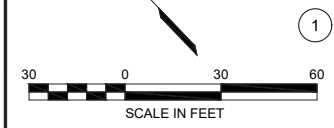
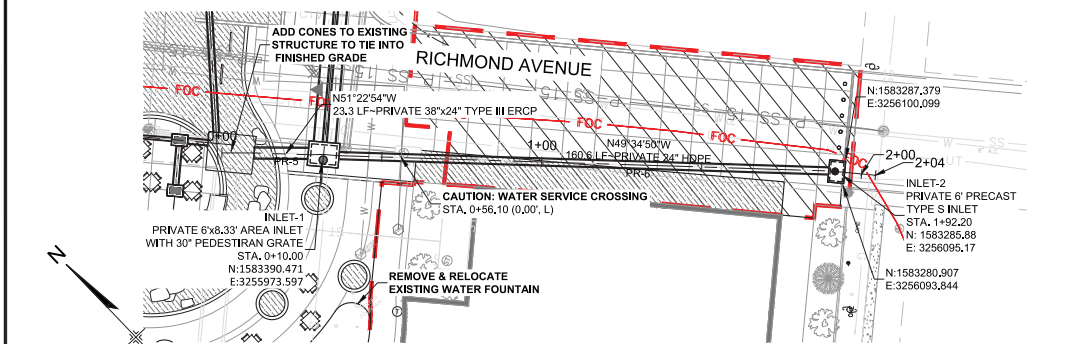


Know what's below. Call before you dig.

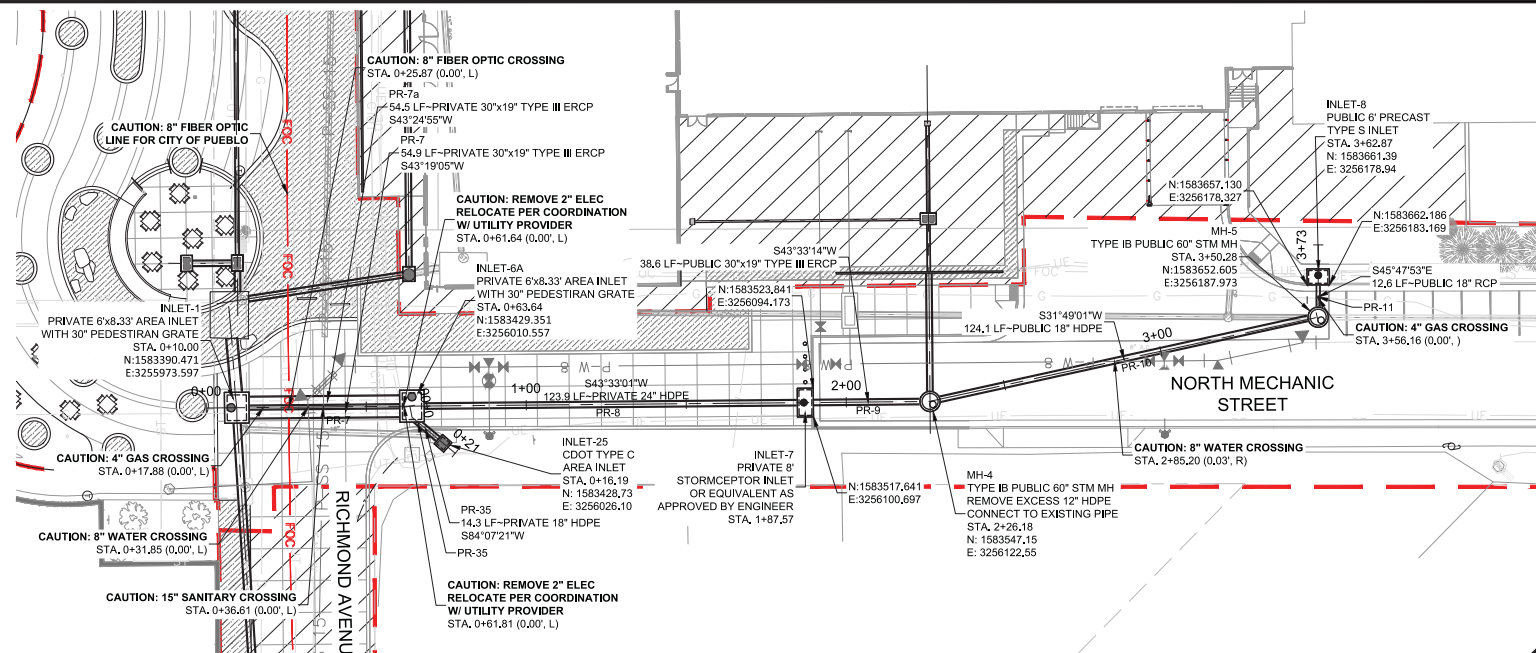


NOTES:

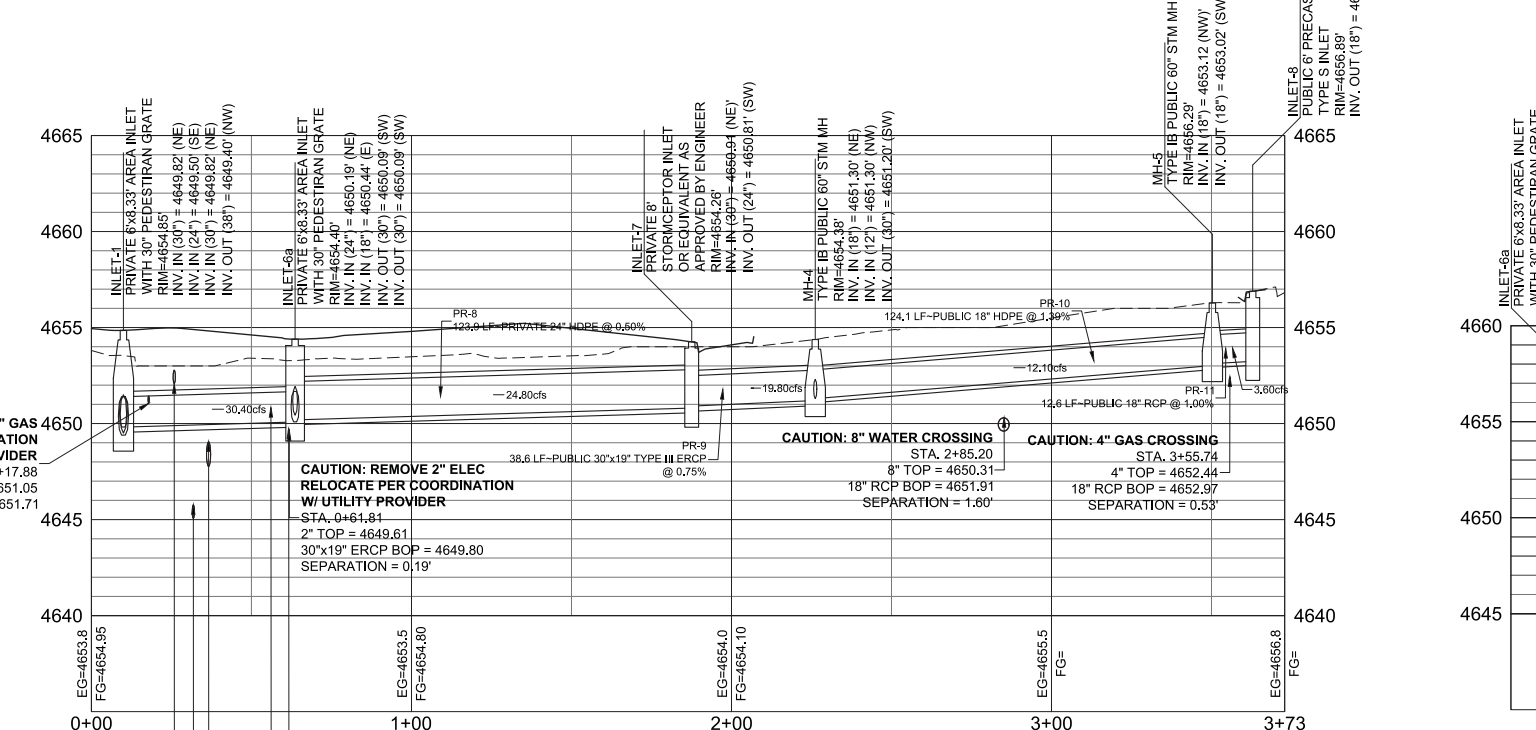
1. ALL STATION, OFFSET AND NORTHING/EASTING VALUES ARE TO THE CENTER OF ALL STRUCTURES UNLESS OTHERWISE NOTED.
2. PIPE LENGTHS ARE MEASURED FROM THE INSIDE FACE OF ALL STRUCTURES.
3. ALL PIPE BEND ANGLES ARE MEASURED FROM THE CENTER OF PIPE.
4. UTILITY LOCATES PROVIDED BY OTHERS, NO PIPE SIZES OR TYPES PROVIDED WITH LOCATES.
5. DEPTH TO UNDERGROUND CONDUIT FOR GAS, ELECTRIC AND FIBER OPTIC ASSUMED BASED ON INFORMATION GIVEN WITH UTILITY LOCATES AND EXISTING TOPOGRAPHY. SIZING IS APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR AND UTILITY PROVIDER PRIOR TO CONSTRUCTION.
6. CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES.
7. TOP OF BOX ELEVATIONS ARE GIVEN FOR TYPE S INLETS. REFER TO CITY STANDARD DETAIL FOR CORRESPONDING DESIGN ELEVATIONS.
8. ALL ROOF DRAIN DESIGN BEGINS 5' OUTSIDE OF BUILDING FACE. REFER TO MECHANICAL PLANS FOR ALL UPSTREAM ROOF DRAIN DESIGN.
9. ALL RCP PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.



RICHMOND AVENUE LATERAL PROFILE
HORIZ: 1" = 30'
VERT: 1" = 5'



NORTH MECHANIC STREET STORM MAIN W/ CDOT TYPE C INLET CONNECTION



NORTH MECHANIC STREET MAIN PROFILE
HORIZ: 1" = 30'
VERT: 1" = 5'

CDOT TYPE C INLET PROFILE
HORIZ: 1" = 30'
VERT: 1" = 5'

REFERENCE DRAWINGS	No.	DATE	DESCRIPTION REVISIONS	BY
X-946-PR-BASE				
X-946-EX-MAP-COMBINED				
X-946-PR-UTIL				
X-946-EX-UTIL-COMBINED				
X-946-PR-BASE - PARKING GARAGE				
X-479-PR-BASE - Gateway Park				
X-946-EX-BASE-COMBINED				
X-481-TITLE-LANDSCAPE				
Pueblo Inlets				
X-PR-LIMIT-Gateway Park				

COMPUTER FILE MANAGEMENT
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CAUTION: REMOVE 4" GAS	CAUTION: REMOVE 2" ELEC	CAUTION: 8" WATER CROSSING	CAUTION: 15" SANITARY CROSSING
RELOCATE PER COORDINATION W/ UTILITY PROVIDER	RELOCATE PER COORDINATION W/ UTILITY PROVIDER	RELOCATE PER COORDINATION W/ UTILITY PROVIDER	INSTALL HELICAL PIERS (SEE DETAIL SHEET C111)
STA. 0+17.88 4" BOP = 4651.05 30"x19" ERCP TOP = 4651.71	STA. 0+61.84 2" TOP = 4649.61 30"x19" ERCP BOP = 4649.80 SEPARATION = 0.19'	STA. 0+31.85 8" TOP = 4645.77 30"x19" ERCP BOP = 4649.65 SEPARATION = 3.88'	STA. 0+36.61 15" TOP = 4649.06 30"x19" ERCP BOP = 4649.68 SEPARATION = 0.62'

PREPARED BY: **Matrix DESIGN GROUP**

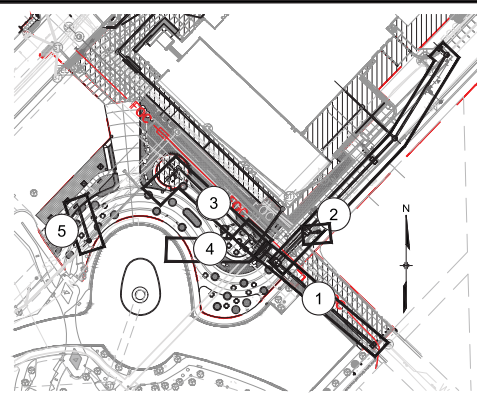
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 17.946.001

EDA PROJECT NUMBER: 05-01-05793
HISTORIC ARKANSAS RIVERWALK OF PUEBLO GATEWAY PLAZA PROJECT
STORM DRAIN PLAN & PROFILE

DESIGNED BY: ME	SCALE: AL	DATE ISSUED: JUNE 14, 2018	DRAWING No. C108
DRAWN BY: AL	HORIZ: N/A	9 OF 31	
CHECKED BY: GS	VERT: N/A		



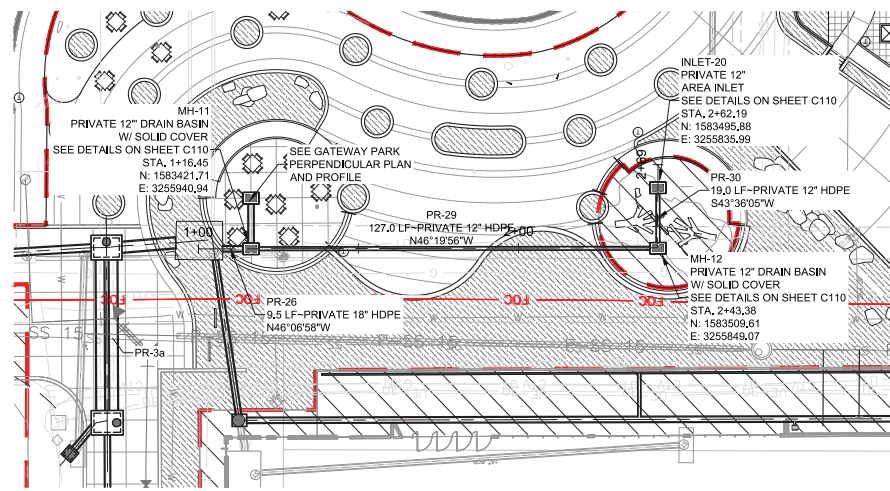
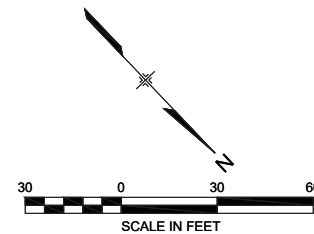
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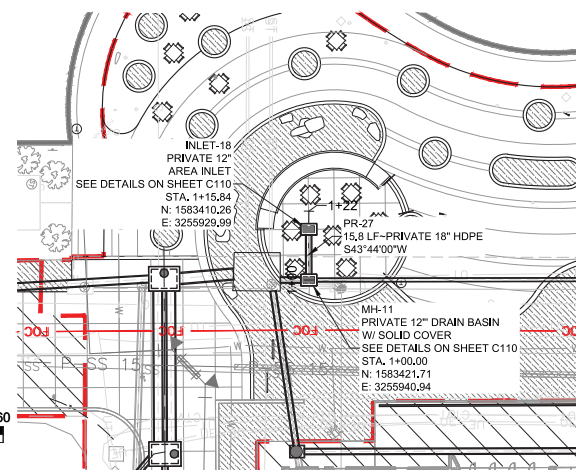
INDEX MAP
(THIS SHEET)
NTS

NOTES:

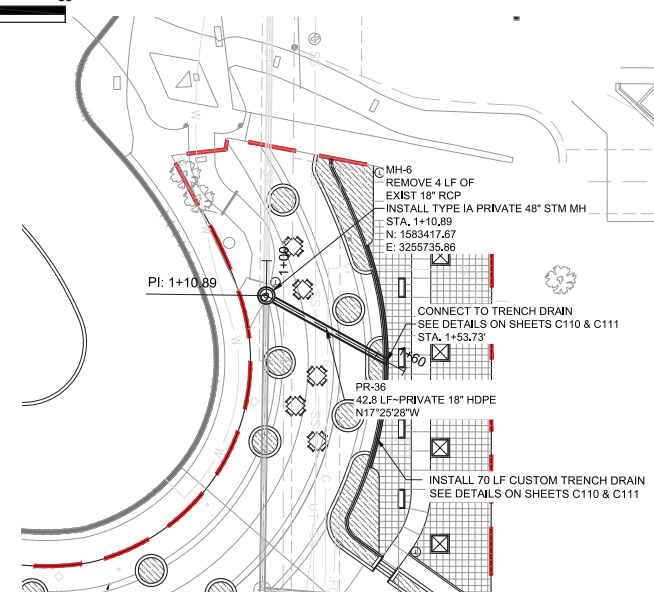
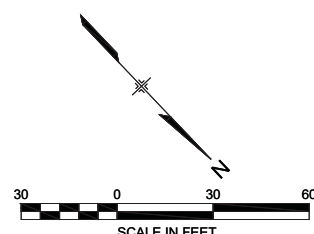
1. ALL STATION, OFFSET AND NORTHING/EASTING VALUES ARE TO THE CENTER OF ALL STRUCTURES UNLESS OTHERWISE NOTED.
2. PIPE LENGTHS ARE MEASURED FROM THE INSIDE FACE OF ALL STRUCTURES.
3. ALL PIPE BEND ANGLES ARE MEASURED FROM THE CENTER OF PIPE.
4. UTILITY LOCATES PROVIDED BY OTHERS, NO PIPE SIZES OR TYPES PROVIDED WITH LOCATES.
5. DEPTH TO UNDERGROUND CONDUIT FOR GAS, ELECTRIC AND FIBER OPTIC ASSUMED BASED ON INFORMATION GIVEN WITH UTILITY LOCATES AND EXISTING TOPOGRAPHY. SIZING IS APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR AND UTILITY PROVIDER PRIOR TO CONSTRUCTION.
6. CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES.
7. TOP OF BOX ELEVATIONS ARE GIVEN FOR TYPE S INLETS. REFER TO CITY STANDARD DETAIL FOR CORRESPONDING DESIGN ELEVATIONS.
8. ALL ROOF DRAIN DESIGN BEGINS 5' OUTSIDE OF BUILDING FACE. REFER TO MECHANICAL PLANS FOR ALL UPSTREAM ROOF DRAIN DESIGN.
9. ALL RCP PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.



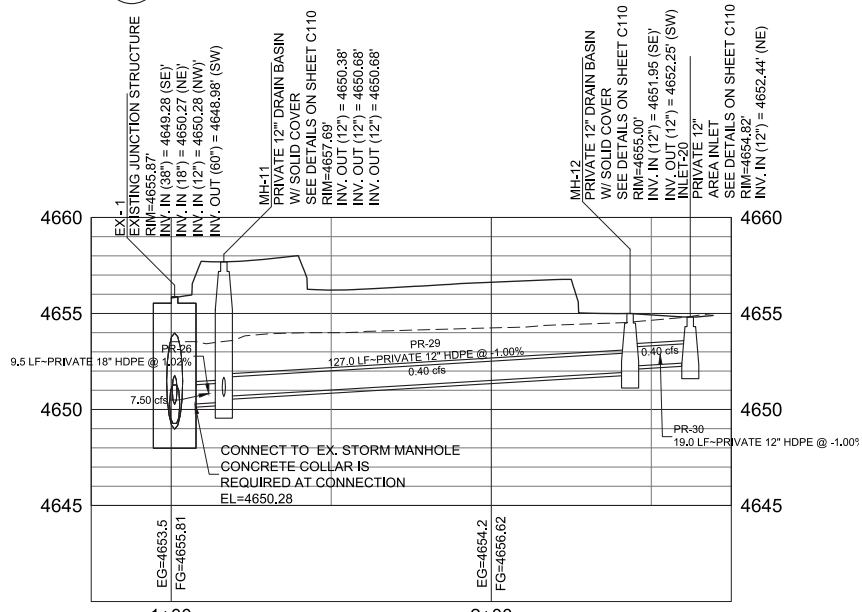
3 GATEWAY PARK STORM DRAIN



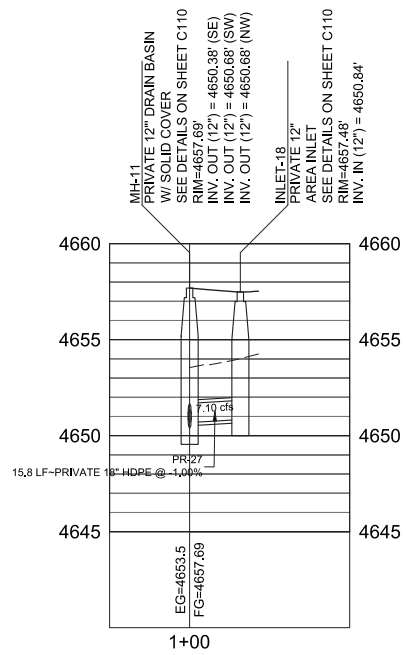
4 GATEWAY PARK PERPENDICULAR STORM DRAIN



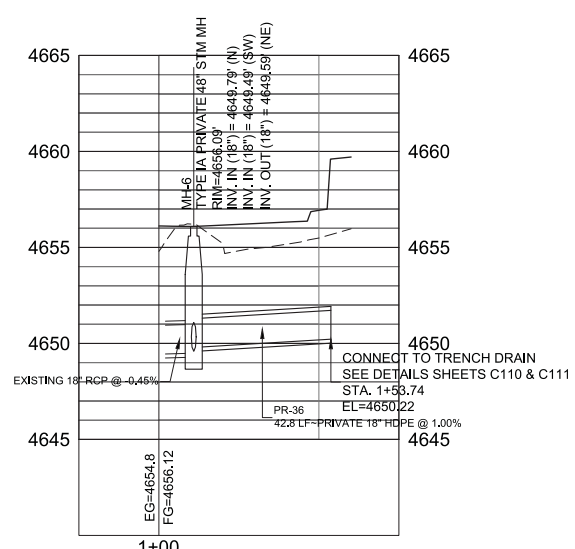
5 GATEWAY PARK SOUTH STORM DRAIN



GATEWAY PARK MAIN DRAIN
STORM PROFILE
HORIZ: 1" = 30'
VERT: 1" = 5'



GATEWAY PARK PERPENDICULAR
STORM PROFILE
HORIZ: 1" = 30'
VERT: 1" = 5'



GATEWAY PARK SOUTH
STORM PROFILE
HORIZ: 1" = 30'
VERT: 1" = 5'

REFERENCE DRAWINGS	No.	DATE	DESCRIPTION REVISIONS	BY
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X-946-EX-MAP-COMBINED				
X-946-PR-UTIL				
X-946-EX-UTIL-COMBINED				
X-946-PR-BASE - PARKING GARAGE				
X-479-PR-BASE - Gateway Park				
X-946-EX-BASE-COMBINED				
X-481-TITLE-LANDSCAPE				
Pueblo Inlets				
X-PR-LIMIT-Gateway Park				

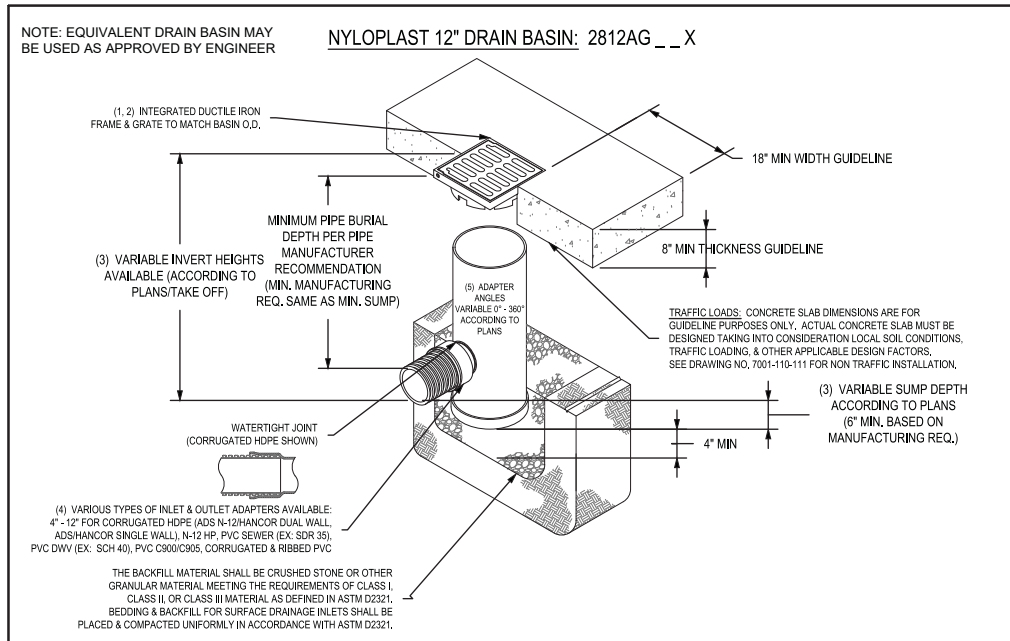
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SEAL	EDA PROJECT NUMBER: 05-01-05793			
	HISTORIC ARKANSAS RIVERWALK OF PUEBLO GATEWAY PLAZA PROJECT			
	STORM DRAIN PLAN & PROFILE			
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 17.946.001	DESIGNED BY: ME	SCALE: N/A	DATE ISSUED: JUNE 14, 2018	DRAWING No. C109
	CHECKED BY: GS	VERT. N/A	SHEET 10 OF 31	

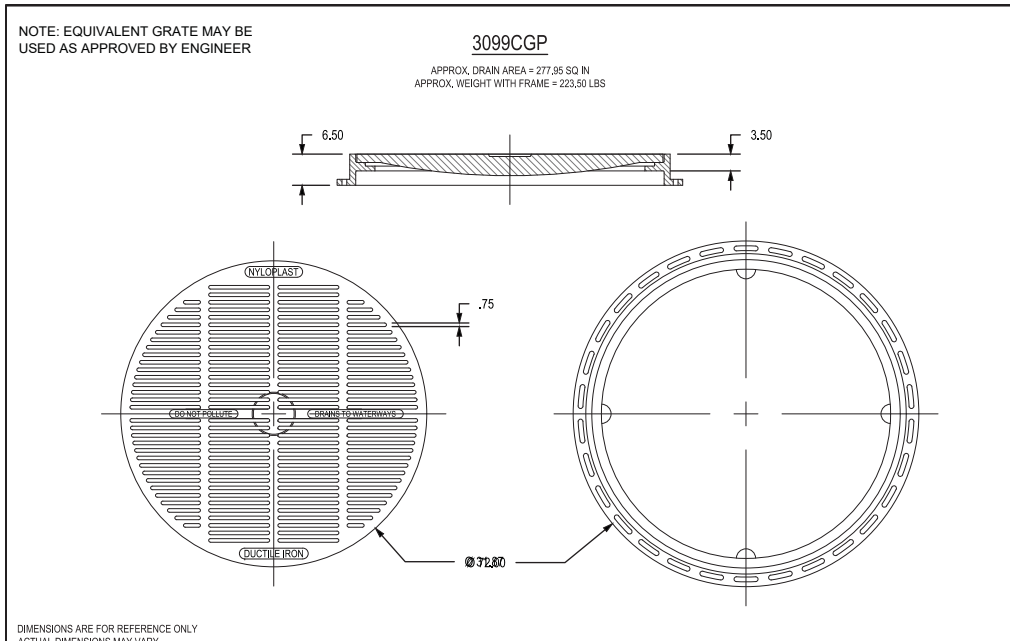


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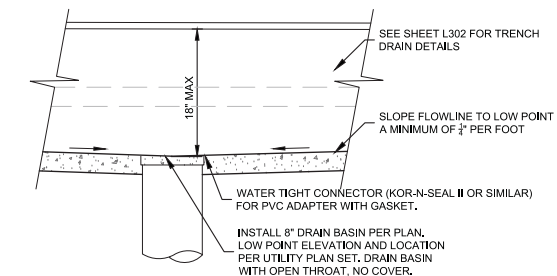
1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.	THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST. ©2011 NYLOPLAST	DRAWN BY	EBC	MATERIAL	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2499 www.nyloplast.com
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3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 9" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065		REVISOR	EBC	PROJECT NO./NAME	
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D2321 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.		DATE	03-11-16		
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-512.		DWG SIZE	A	SCALE 1:20 SHEET 1 OF 1	

DETAIL: EXAMPLE 12" DRAIN BASIN
NTS

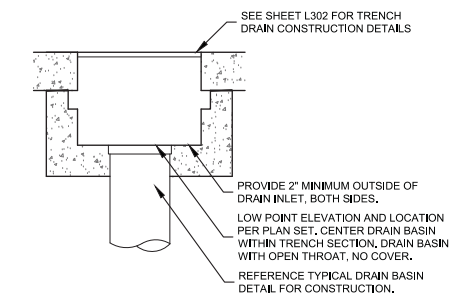


1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.	THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST. ©2011 NYLOPLAST	DRAWN BY	EBC	MATERIAL	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2499 www.nyloplast.com
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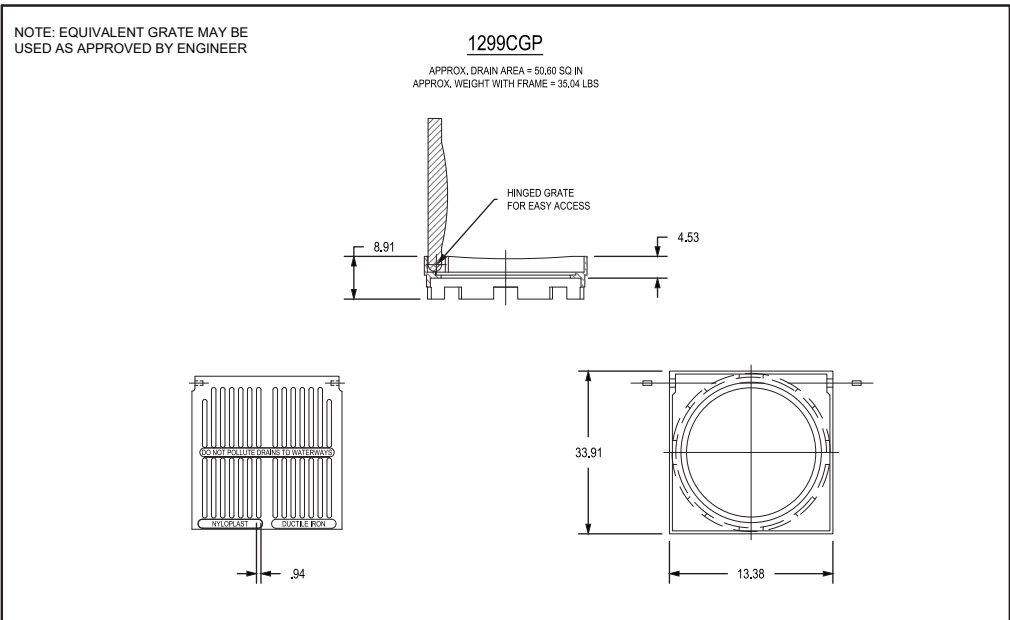
DETAIL: EXAMPLE 30" PEDESTRIAN GRATE
NTS



DETAIL: CUSTOM TRENCH DRAIN SECTION
NTS

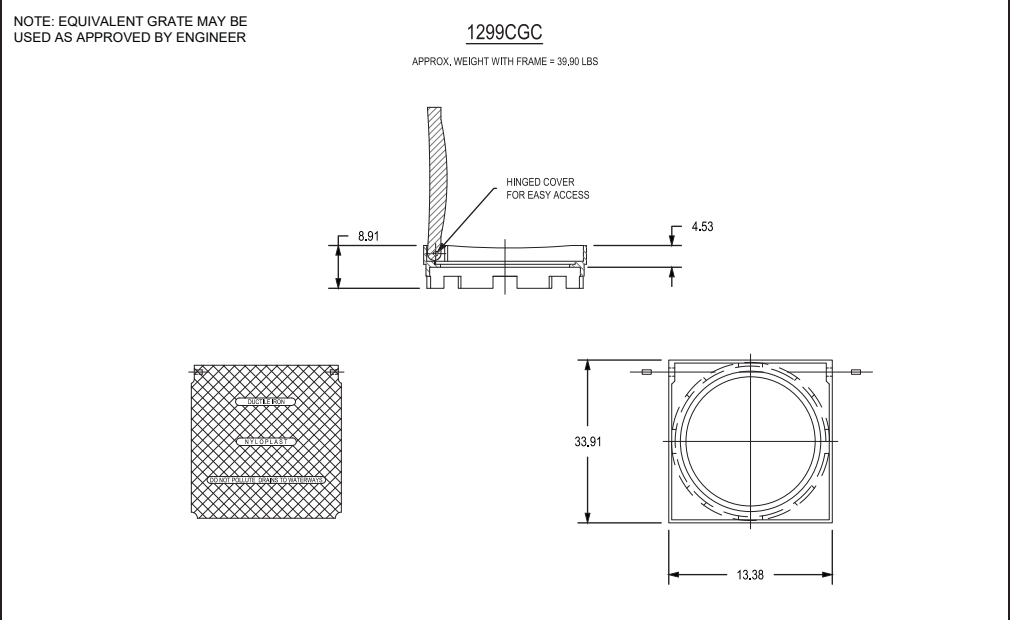


DETAIL: CUSTOM TRENCH DRAIN BASIN INSTALLATION
NTS



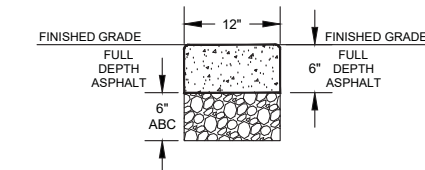
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DETAIL: EXAMPLE 12" PEDESTRIAN GRATE
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DETAIL: EXAMPLE 12" SOLID GRATE
NTS



RIBBON CURB HEAD DETAIL
NTS

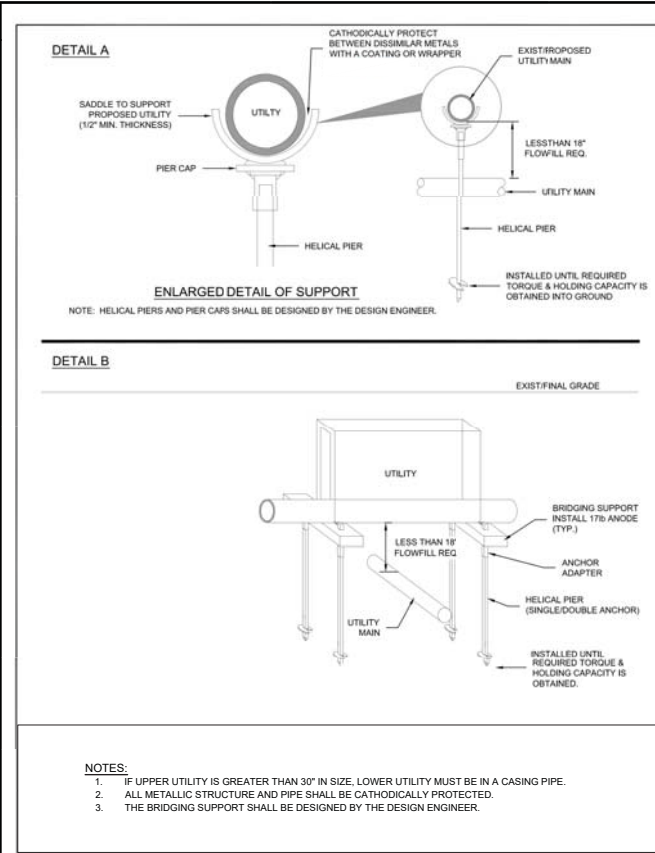
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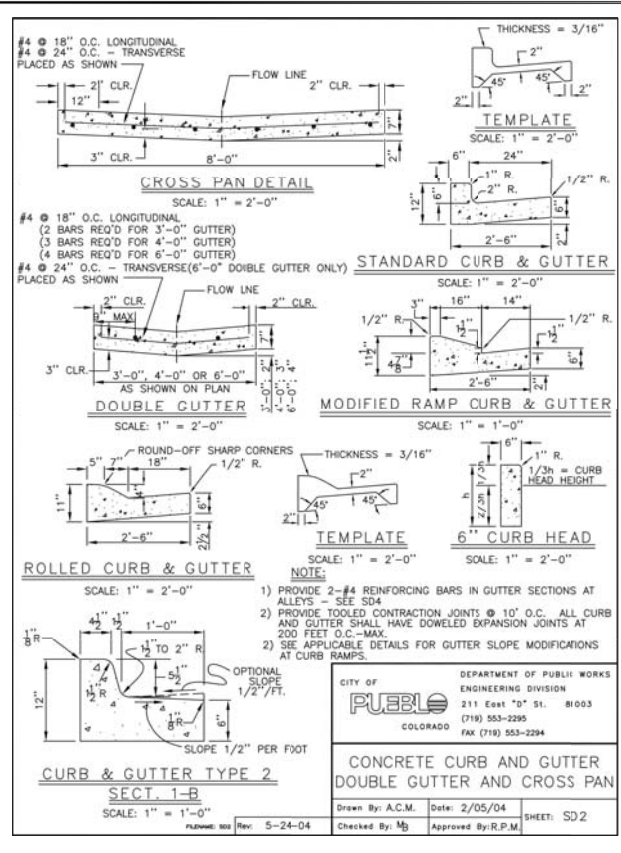
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EDA PROJECT NUMBER: 05-01-05793			
HISTORIC ARKANSAS RIVERWALK OF PUEBLO GATEWAY PLAZA PROJECT			
STORM DRAIN PLAN & PROFILE			
DESIGNED BY:	ME	SCALE	DATE ISSUED: JUNE 14, 2018
DRAWN BY:	AL	HORIZ	N/A
CHECKED BY:	GS	VERT	N/A
		SHEET	11 OF 31
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 17.946.001			DRAWING No. C110



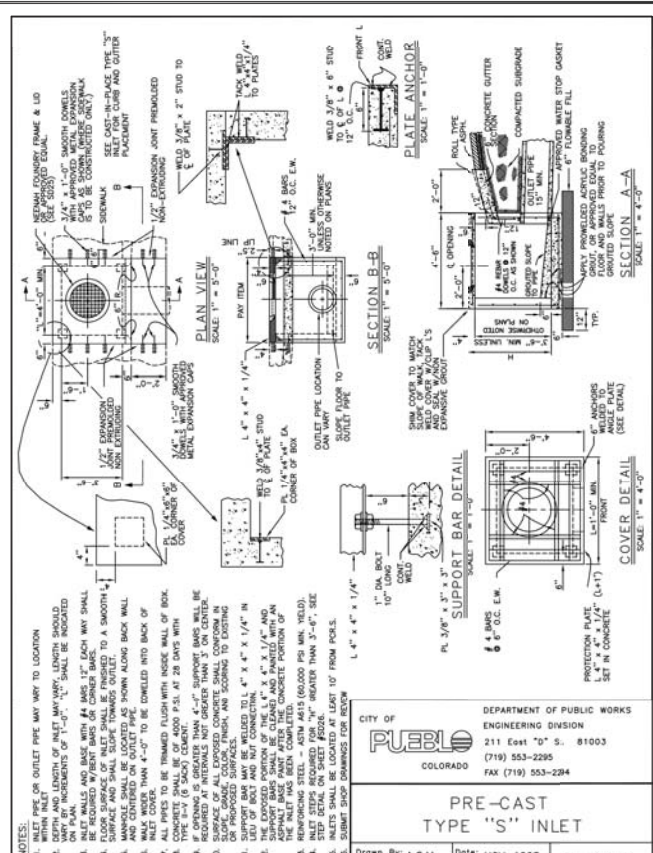
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DETAIL: PIPE BRIDGING (HELICAL PIERS)



DETAIL: STD CURB & GUTTER



DETAIL: TYPE S PRE-CAST INLET

SEED MIX NOTES:

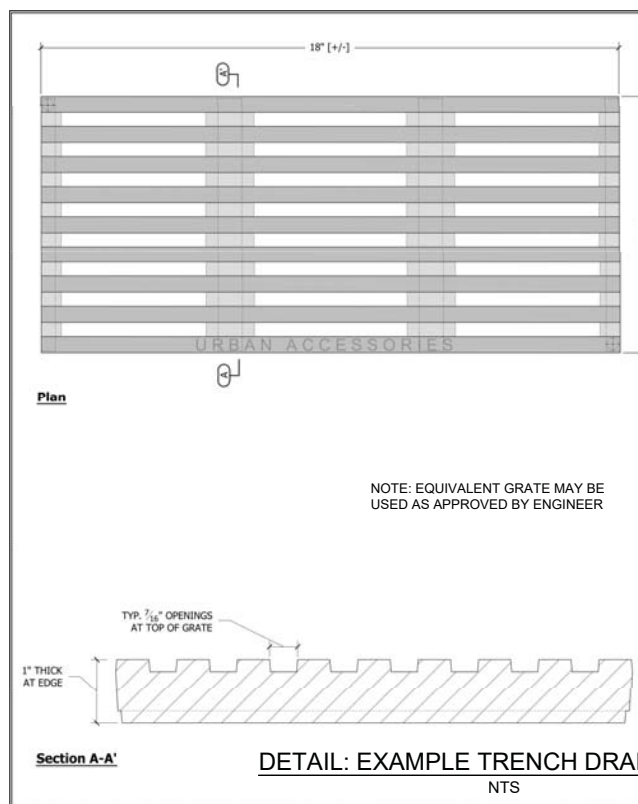
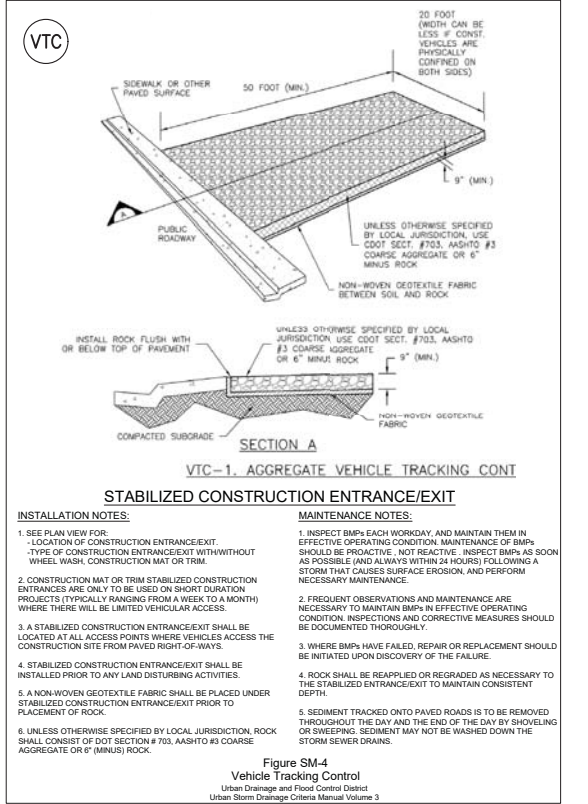
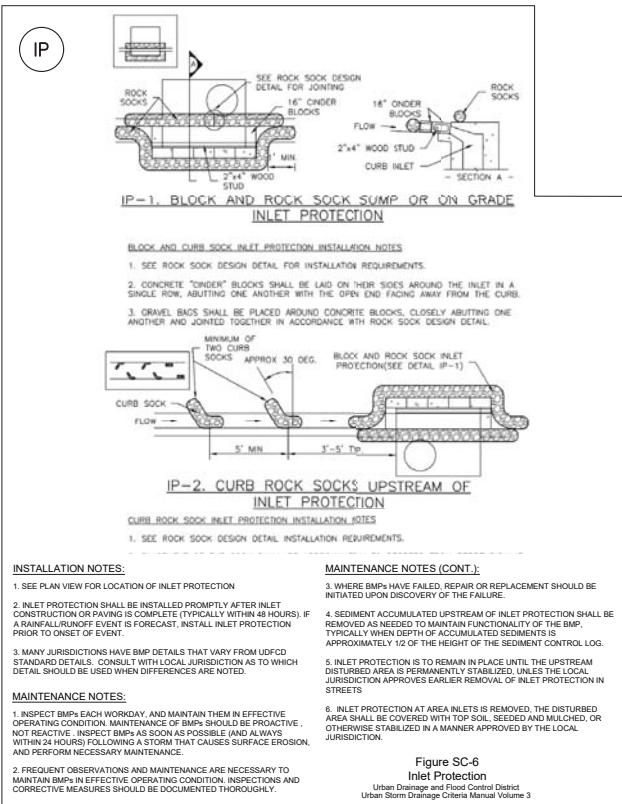
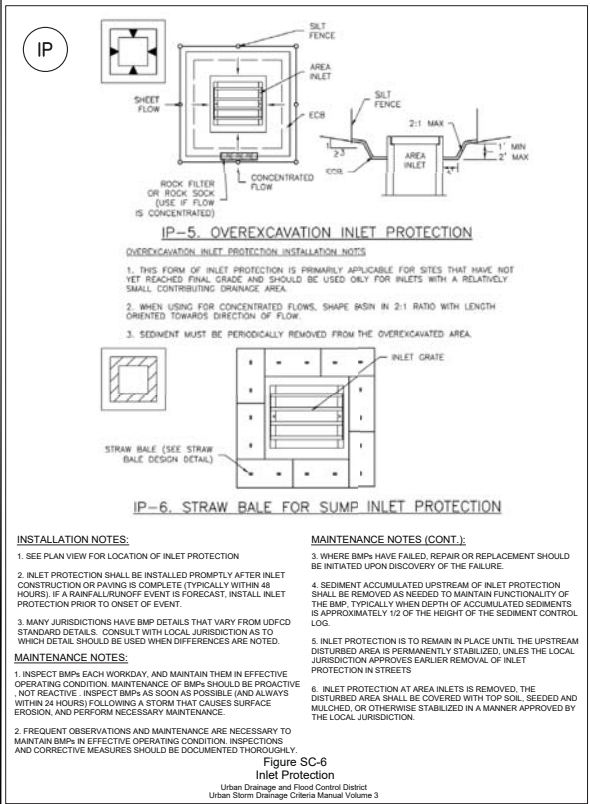
A MIXTURE DEVELOPED FOR ELEVATIONS 3,000 TO 8,000 FEET TO PROVIDE NATURAL COVER UNDER DRYLAND CONDITIONS. CONTAINS BOTH COOL AND WARM SEASON GRASSES ADAPTED TO THE WESTERN GREAT PLAINS AND SOUTHWESTERN REGION. HAS EXCELLENT COLD AND DROUGHT TOLERANCE. GOOD FOR SOIL STABILIZATION ON POOR SOILS.

CHARACTERISTICS:
GROWS 20-60 INCHES WITH AVERAGE RAINFALL.

SEEDING RATE:
BROADCAST: 20-25 LBS/ACRE
DRILLED: 15-20 LBS/ACRE
OVERSEEDING: 10-15 LBS/ACRE
DRILLED: 5-10 LBS/ACRE

MIX CONTAINS:
20% ANNUAL RYEGRASS: COOL SEASON BUNCHGRASS W GERMINATION IN 5-10 DAYS
15% SLENDER WHEATGRASS: COOL SEASON BUNCHGRASS W GERMINATION IN 21-28 DAYS
12% CRESTED WHEATGRASS: COOL SEASON BUNCHGRASS W GERMINATION IN 14-21 DAYS
10% MOUNTAIN BROME: COOL SEASON BUNCHGRASS W GERMINATION IN 10-14 DAYS
10% HARD FESCUE: COOL SEASON BUNCHGRASS W GERMINATION IN 7-10 DAYS
6% CANADA BLUEGRASS: COOL SEASON BUNCHGRASS W GERMINATION IN 14-21 DAYS
6% SIDOATS GRAMA: WARM SEASON BUNCHGRASS W GERMINATION IN 14-21 DAYS
6% BIG BLUESTEM: WARM SEASON BUNCHGRASS W GERMINATION IN 14-21 DAYS
5% BLUE GRAMA (COATED): WARM SEASON BUNCHGRASS W GERMINATION IN 7-10 DAYS
5% SWITCHGRASS: WARM SEASON BUNCHGRASS W GERMINATION IN 21-28 DAYS
1% SAND DROPSPEED: WARM SEASON BUNCHGRASS W GERMINATION IN 14-21 DAYS

KIND AND VARIETY	PURE	GERM	ORIGIN
ANNUAL RYEGRASS	15.72	97	OR
SLENDER WHEATGRASS	11.80	98	WA
DATS	10.20	98	WY
PERENNIAL RYEGRASS	9.82	95	OR
CREST WHEATGRASS	8.73	96	SD
MOUNTAIN BROME	7.93	97	WY
HARD FESCUE	7.92	93	OR
CANADA BLUEGRASS	7.80	92	WA
SIDOATS GRAMA	4.59	96	MN
SWITCHGRASS	3.99	93	MN
BIG BLUESTEM	3.23	74	MN
BLUE GRAMA	1.89	95	MN
SAND DROPSPEED	0.80	95	CO



SPECIFICATIONS

- Material will be high quality 100% recycled grey iron; ASTM A48 class 350 or better; hardness 170-223 brinnell (unless specified otherwise; see below).
- Material:
 - Grey iron ASTM A48 (standard)
 - Aluminum, ASTM B26
 - Ductile iron, (required for all load ratings higher than pedestrian)
 - ASTM A536 class 65-45-12
 - Nickel bronze (ASTM B30)
 - Bronze (ASTM B26)
- Finish will be natural patina of raw iron (unless specified otherwise; see below).
 - Raw (standard)
 - Rust conditioner
 - Polyester Powder Coat*
 - Liquid Coat (wet paint)**
- Color:
 - *Please specify standard UA color or mfr. name and color code.
 - Brush (bronze/nickel/aluminum only)
 - Polish (bronze/nickel/aluminum only)
 - Galvanized (grey iron and ductile iron only)
 - Other:

Dimensions are nominal.

Notes:

- Grate is 1" thick at edge.
- No openings greater than 1/4" in conformance with ADA Accessibility Guidelines.
- By default, the last grate in a trench drain will be sheared to meet a drain length specified at the time of order. Alternatively, the trench drain length may be adjusted to the nearest whole grate (tolerances in the grate size will compound across the overall run). Please provide instructions in the comments section below.
- 48.1 sq. in. open area per grate.
- Grate weighs 20.5 lbs.

Comments:

Trench Grate
8" x 18" Rainbow

Page 1 of 1 Date: 5/30/12

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TACOMA, WA 98421 www.urbanaccessories.com
(877) 487-0468

REFERENCE DRAWINGS	No.	DATE	DESCRIPTION	BY
X-946-PR-BASE				
X-946-EX-MAP-COMBINED				
X-946-PR-TITLE				
X-946-EX-UTIL-COMBINED				
X-946-PR-BASE - PARKING GARAGE				
X-779-PR-BASE - Gateway Park				
X-946-EX-BASE-COMBINED				
X-481-TITLE-LANDSCAPE				
Pueblo Inlets				
X-PR-LIMIT-Gateway Park				

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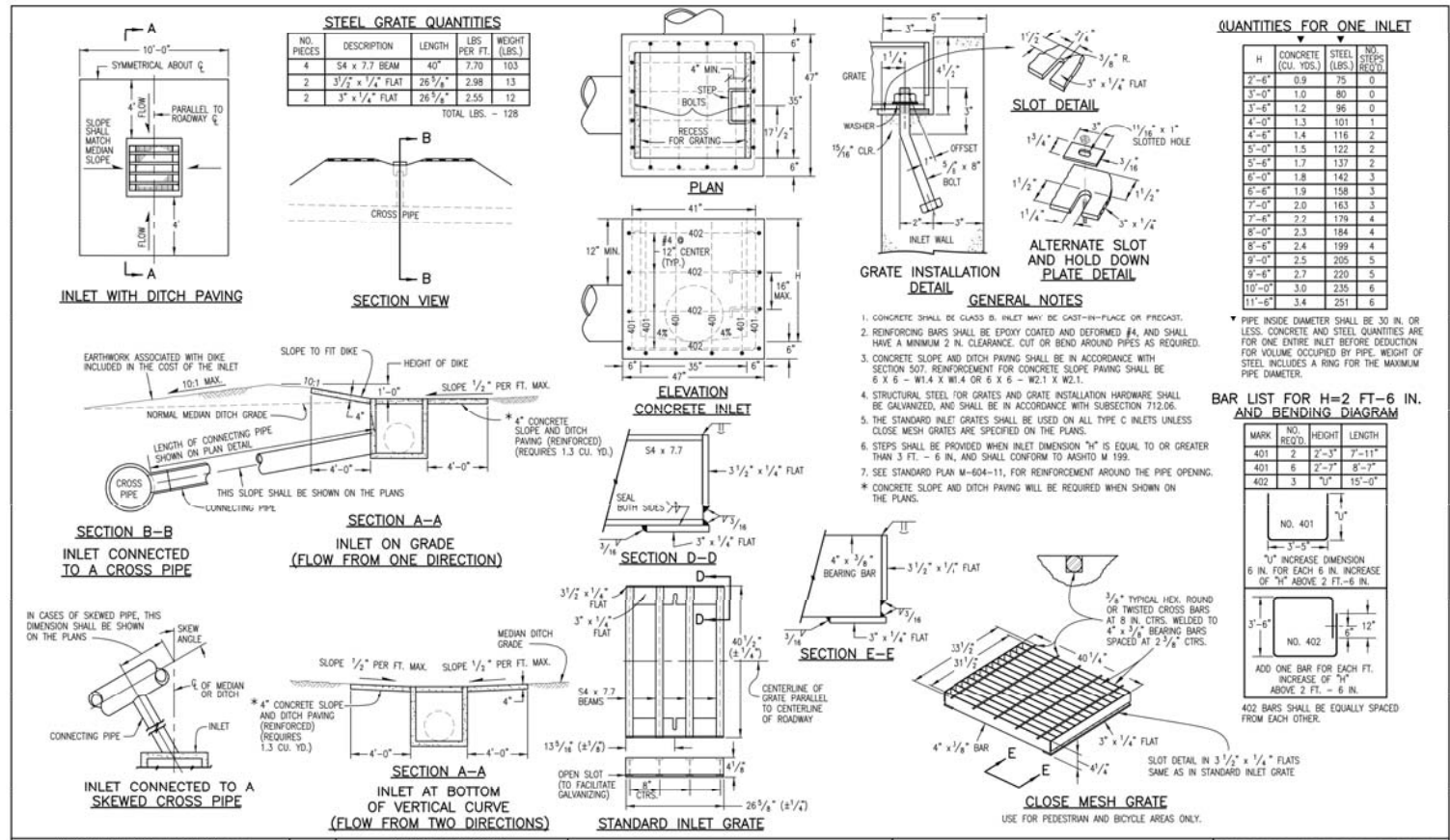
PREPARED BY:

Matrix
DESIGN GROUP

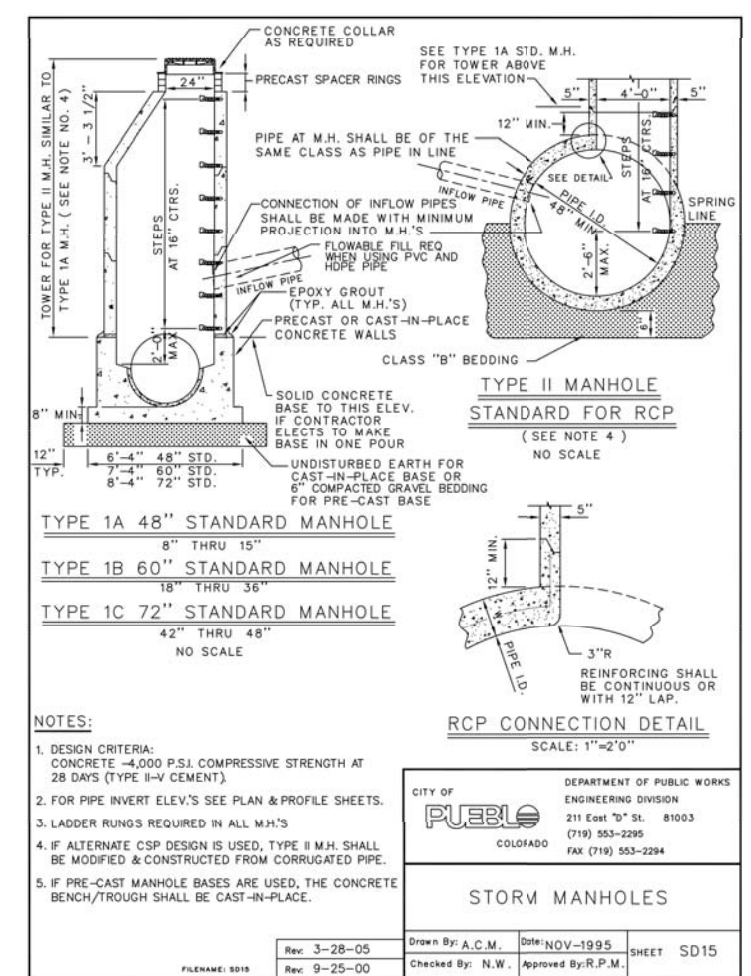
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SCALE: HORIZ. N/A VERT. N/A	DATE ISSUED: JUNE 14, 2018 SHEET 12 OF 31
	DRAWING No. C111



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DETAIL: CDOT TYPE C INLET
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DETAIL: STORM MANHOLES
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Computer File Information		Sheet Revisions		Colorado Department of Transportation 4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9053 Fax: (303) 757-9820	STANDARD PLAN NO. M-604-10
Creation Date: 07/04/06	Initials: SJR	Date:	Comments:		
Last Modification Date: 07/04/06		Initials: LTA		Project Development Branch SRJ/LTA	Issued By: Project Development Branch on July 04, 2006
Full Path: www.dot.state.co.us/DesignSupport/		Drawing File Name: 6040100101.dwg			
CAD Ver.: MicroStation V8		Scale: Not to Scale		STANDARD PLAN NO. M-604-10 Sheet No. 1 of 1	

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X-946-PR-BASE - PARKING GARAGE				
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X-946-EX-BASE-COMBINED				
X-481-TITLE-LANDSCAPE				
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X-PR-LIMIT-Gateway Park				

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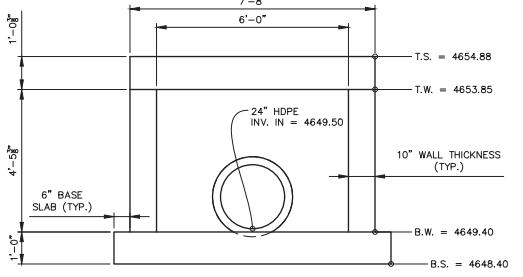
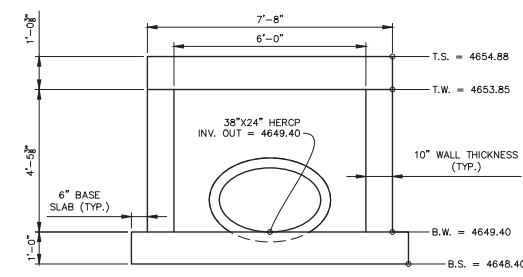
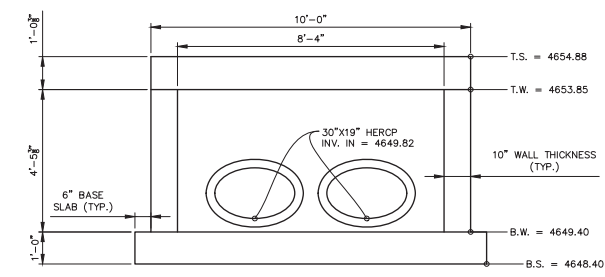
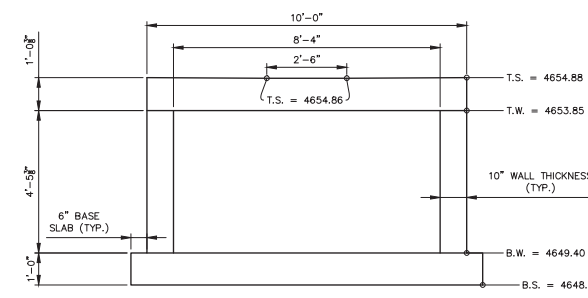
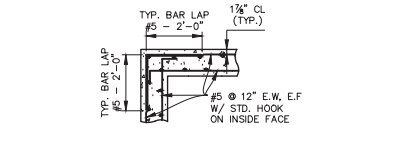
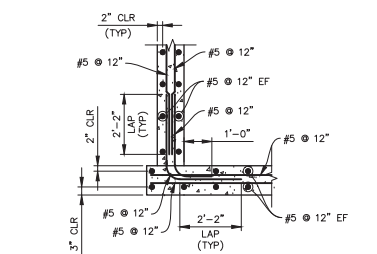
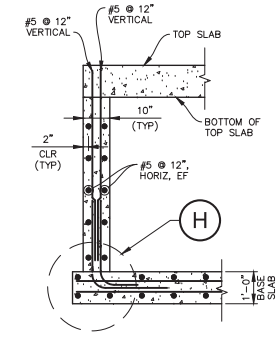
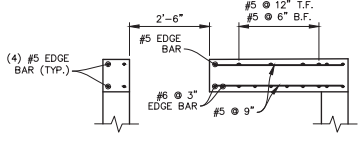
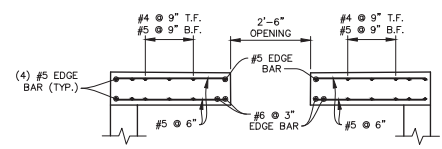
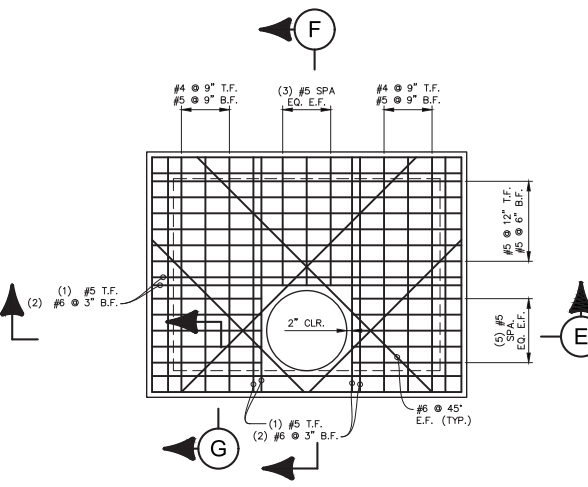
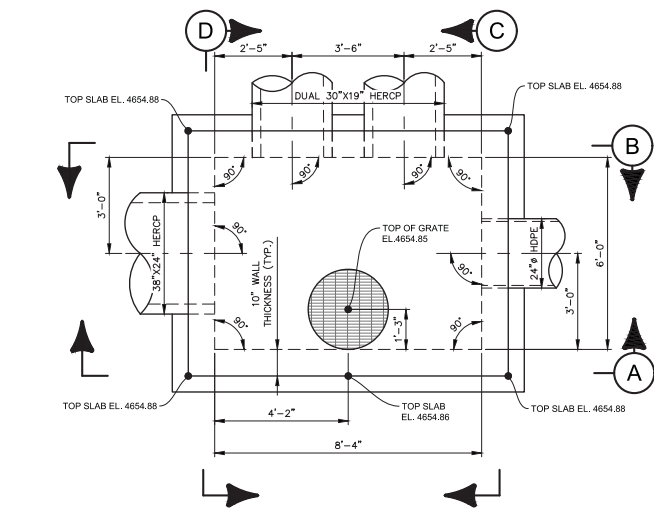
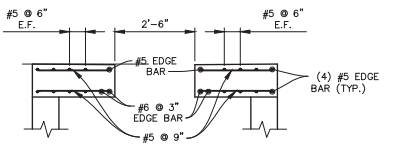
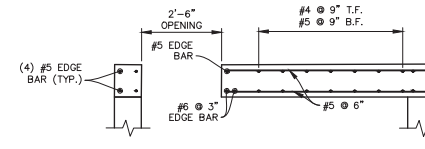
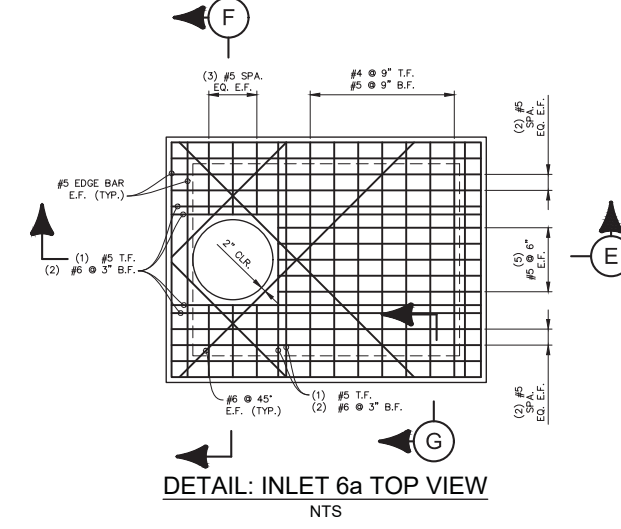
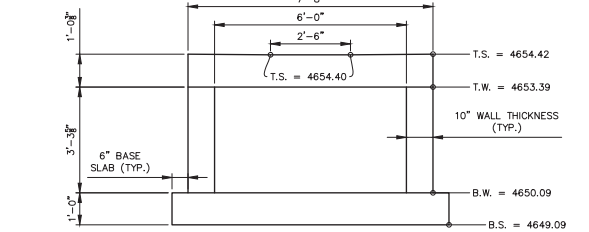
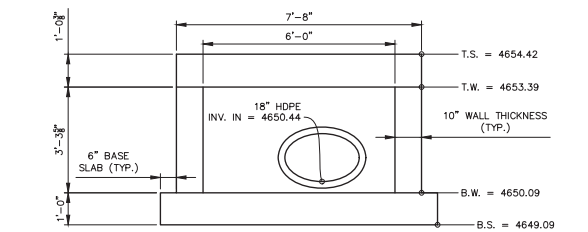
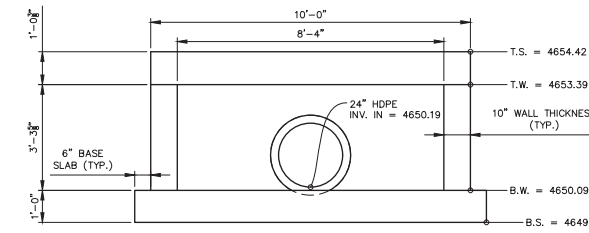
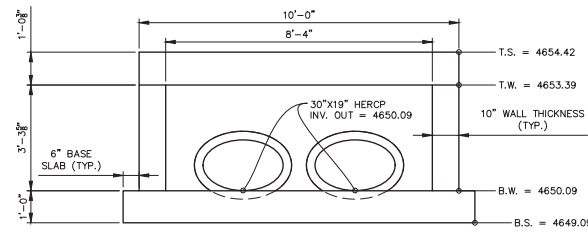
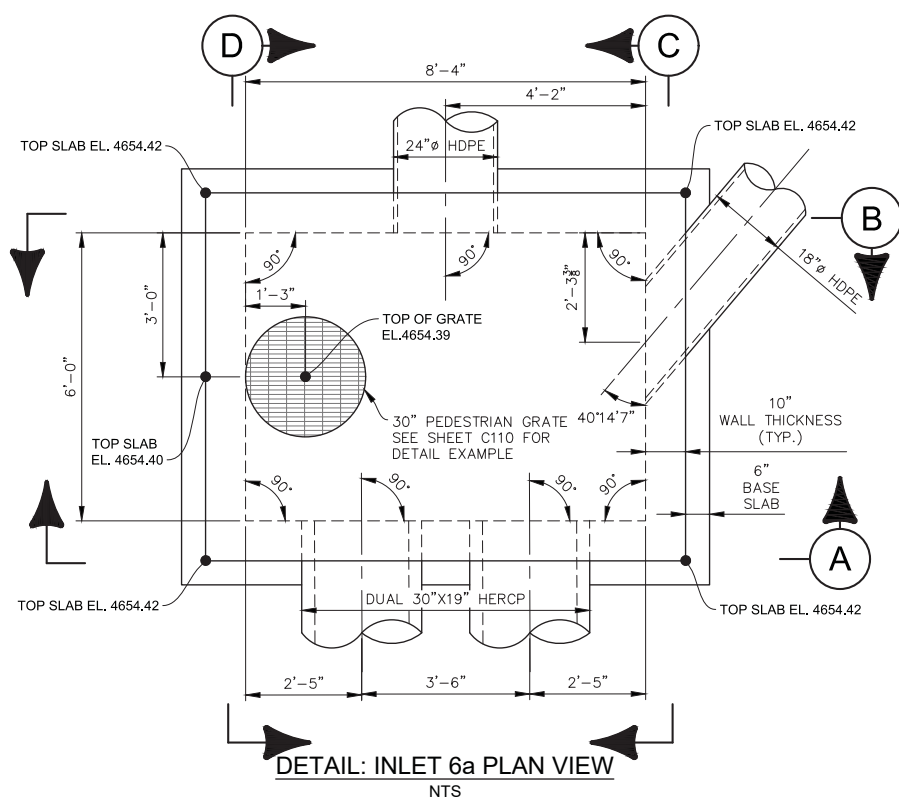
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	VERT: N/A		

EDA PROJECT NUMBER: 05-01-05793
 HISTORIC ARKANSAS RIVERWALK OF PUEBLO
 GATEWAY PLAZA PROJECT
 STORM DRAIN PLAN & PROFILE

FOR AND ON BEHALF OF
 MATRIX DESIGN GROUP, INC.
 PROJECT No. 17.946.001



Know what's below.
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REFERENCE DRAWINGS	No.	DATE	DESCRIPTION REVISIONS	BY
X-946-PR-BASE				
X-946-EX-MAP-COMBINED				
X-946-PR-UTIL				
X-946-EX-UTIL-COMBINED				
X-946-PR-BASE - PARKING GARAGE				
X-479-PR-BASE - Gateway Park				
X-946-EX-BASE-COMBINED				
X-481-TITLE-LANDSCAPE				
Pueblo Inlets				
X-PR-LIMIT-Gateway Park				

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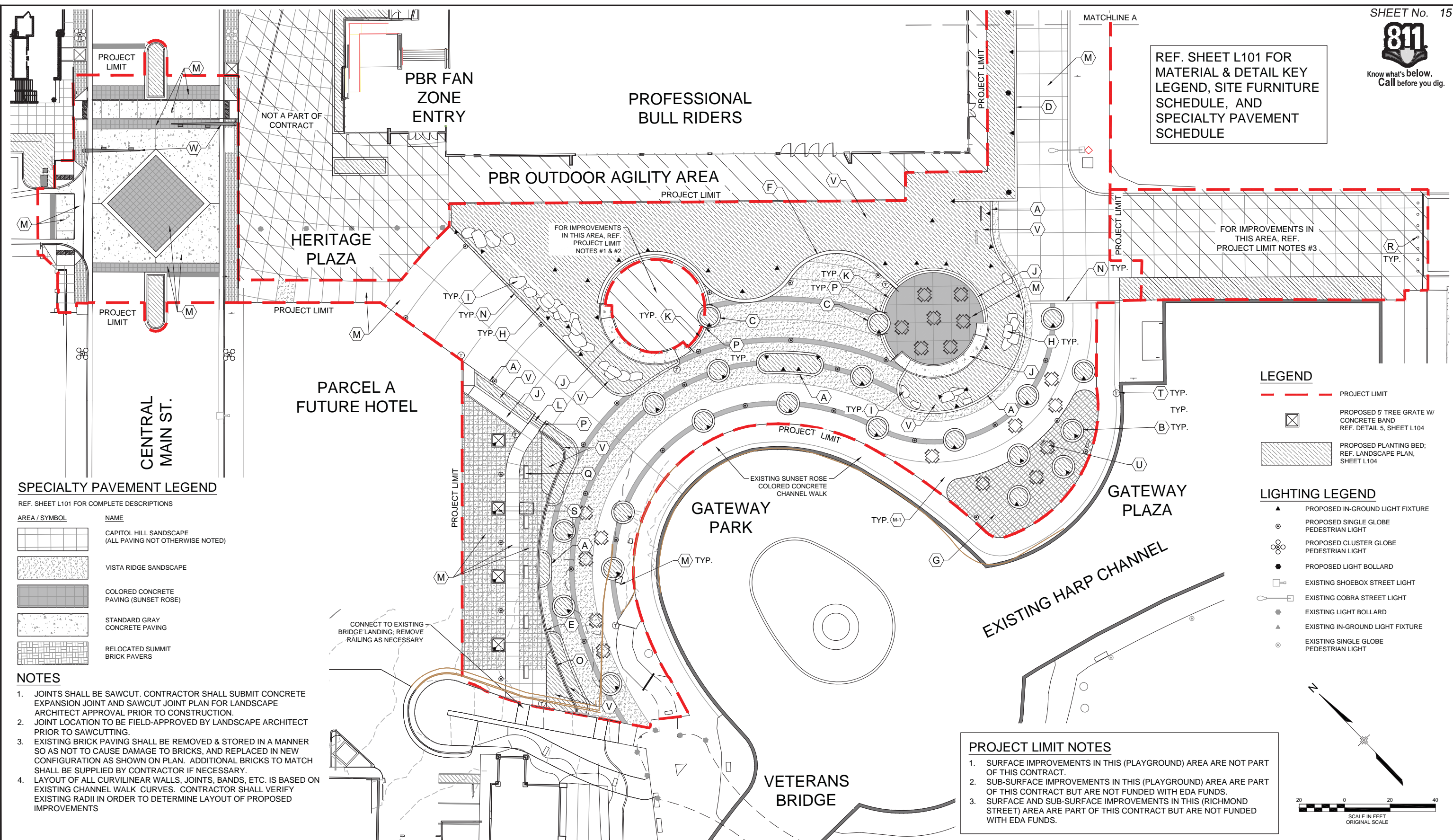
PREPARED BY:	SEAL
Matrix DESIGN GROUP	
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 17.946.001	DESIGNED BY: ME DRAWN BY: AL CHECKED BY: GS
	SCALE: N/A DATE ISSUED: JUNE 14, 2018 SHEET: 14 OF 31
	DRAWING No. C113

EDA PROJECT NUMBER: 05-01-05793	
HISTORIC ARKANSAS RIVERWALK OF PUEBLO GATEWAY PLAZA PROJECT	
STORM DRAIN PLAN & PROFILE	



Know what's below.
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REF. SHEET L101 FOR MATERIAL & DETAIL KEY LEGEND, SITE FURNITURE SCHEDULE, AND SPECIALTY PAVEMENT SCHEDULE



SPECIALTY PAVEMENT LEGEND

REF. SHEET L101 FOR COMPLETE DESCRIPTIONS

AREA / SYMBOL	NAME
[Symbol]	CAPITOL HILL SANDSCAPE (ALL PAVING NOT OTHERWISE NOTED)
[Symbol]	VISTA RIDGE SANDSCAPE
[Symbol]	COLORLED CONCRETE PAVING (SUNSET ROSE)
[Symbol]	STANDARD GRAY CONCRETE PAVING
[Symbol]	RELOCATED SUMMIT BRICK PAVERS

NOTES

- JOINTS SHALL BE SAWCUT. CONTRACTOR SHALL SUBMIT CONCRETE EXPANSION JOINT AND SAWCUT JOINT PLAN FOR LANDSCAPE ARCHITECT APPROVAL PRIOR TO CONSTRUCTION.
- JOINT LOCATION TO BE FIELD-APPROVED BY LANDSCAPE ARCHITECT PRIOR TO SAWCUTTING.
- EXISTING BRICK PAVING SHALL BE REMOVED & STORED IN A MANNER SO AS NOT TO CAUSE DAMAGE TO BRICKS, AND REPLACED IN NEW CONFIGURATION AS SHOWN ON PLAN. ADDITIONAL BRICKS TO MATCH SHALL BE SUPPLIED BY CONTRACTOR IF NECESSARY.
- LAYOUT OF ALL CURVILINEAR WALLS, JOINTS, BANDS, ETC. IS BASED ON EXISTING CHANNEL WALK CURVES. CONTRACTOR SHALL VERIFY EXISTING RADII IN ORDER TO DETERMINE LAYOUT OF PROPOSED IMPROVEMENTS

LEGEND

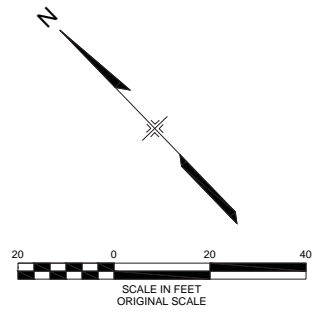
- [Red dashed line] PROJECT LIMIT
- [Symbol] PROPOSED 5' TREE GRATE W/ CONCRETE BAND REF. DETAIL 5, SHEET L104
- [Hatched area] PROPOSED PLANTING BED; REF. LANDSCAPE PLAN, SHEET L104

LIGHTING LEGEND

- [Symbol] PROPOSED IN-GROUND LIGHT FIXTURE
- [Symbol] PROPOSED SINGLE GLOBE PEDESTRIAN LIGHT
- [Symbol] PROPOSED CLUSTER GLOBE PEDESTRIAN LIGHT
- [Symbol] PROPOSED LIGHT BOLLARD
- [Symbol] EXISTING SHOEBOX STREET LIGHT
- [Symbol] EXISTING COBRA STREET LIGHT
- [Symbol] EXISTING LIGHT BOLLARD
- [Symbol] EXISTING IN-GROUND LIGHT FIXTURE
- [Symbol] EXISTING SINGLE GLOBE PEDESTRIAN LIGHT

PROJECT LIMIT NOTES

- SURFACE IMPROVEMENTS IN THIS (PLAYGROUND) AREA ARE NOT PART OF THIS CONTRACT.
- SUB-SURFACE IMPROVEMENTS IN THIS (PLAYGROUND) AREA ARE PART OF THIS CONTRACT BUT ARE NOT FUNDED WITH EDA FUNDS.
- SURFACE AND SUB-SURFACE IMPROVEMENTS IN THIS (RICHMOND STREET) AREA ARE PART OF THIS CONTRACT BUT ARE NOT FUNDED WITH EDA FUNDS.



REFERENCE DRAWINGS	No.	DATE	DESCRIPTION REVISIONS	BY
X-481-TITLE-LANDSCAPE				
X-946-PR-BASE				
X-946-EX-BASE-COMBINED				
X-479-PR-BASE - Gateway Park				
PDC - Matrix Field-Portable Location 10-25-17				
X-946-EX-UTIL-COMBINED				
X-946-EX-TOPO-COMBINED				
X-946-EX-TEXT-OTHERS				
X-946-PR-TOPO				
1400300_RTA EX-Matrix revised 10-25-17				
F00TINGS				
X-946-EX-BASE-CHANNEL EXISTING				
X-946-PR-LITL				
X-946-EX-LIGHTS				
X-MAIN INTERSECTION				
X-479-PR-LANDSCAPE-CD - Gateway Park				

COMPUTER FILE MANAGEMENT
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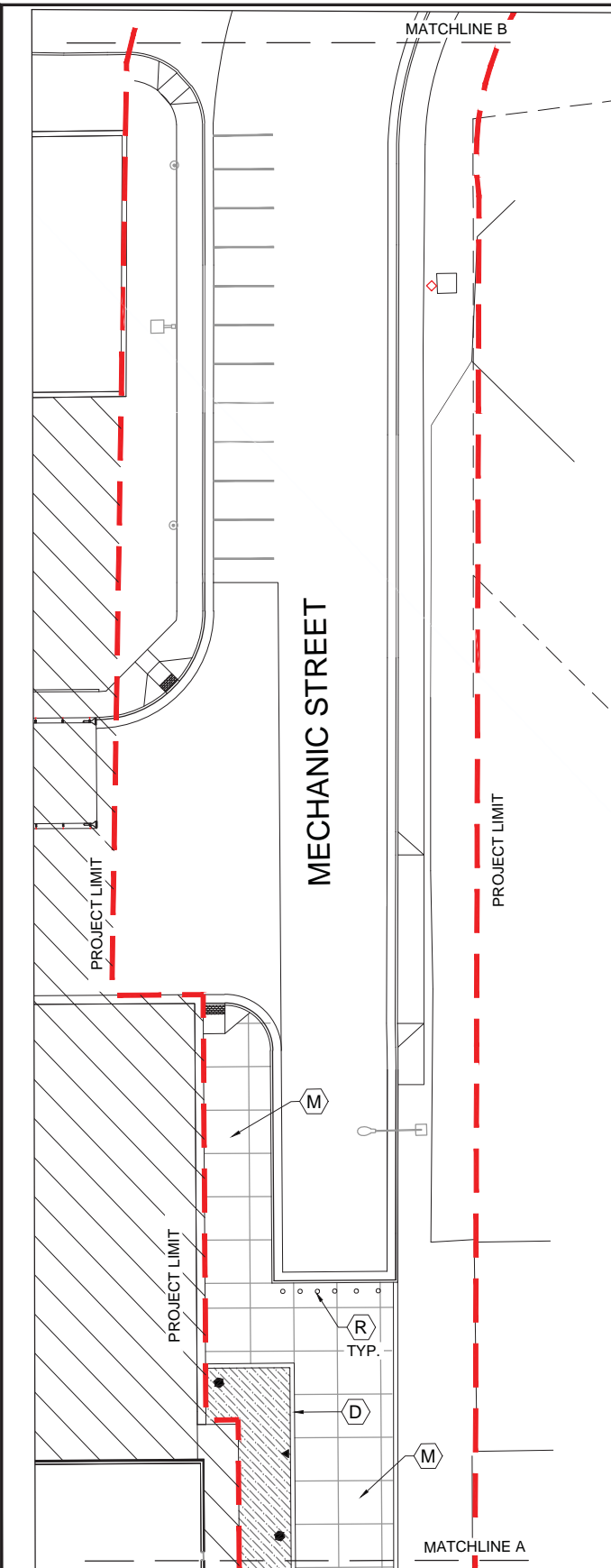


FOR AND ON BEHALF OF
 MATRIX DESIGN GROUP, INC.
 PROJECT No. 17.946.001

EDA PROJECT NUMBER: 05-01-05793			
HISTORIC ARKANSAS RIVERWALK OF PUEBLO GATEWAY PLAZA PROJECT			
SITE IMPROVEMENTS PLAN			
DESIGNED BY: RCE	SCALE: HORIZ. 1" = 20'	DATE ISSUED: MAY 31, 2018	DRAWING No. L100
CHECKED BY: RCE	VERT. N/A	SHEET 15 OF 31	

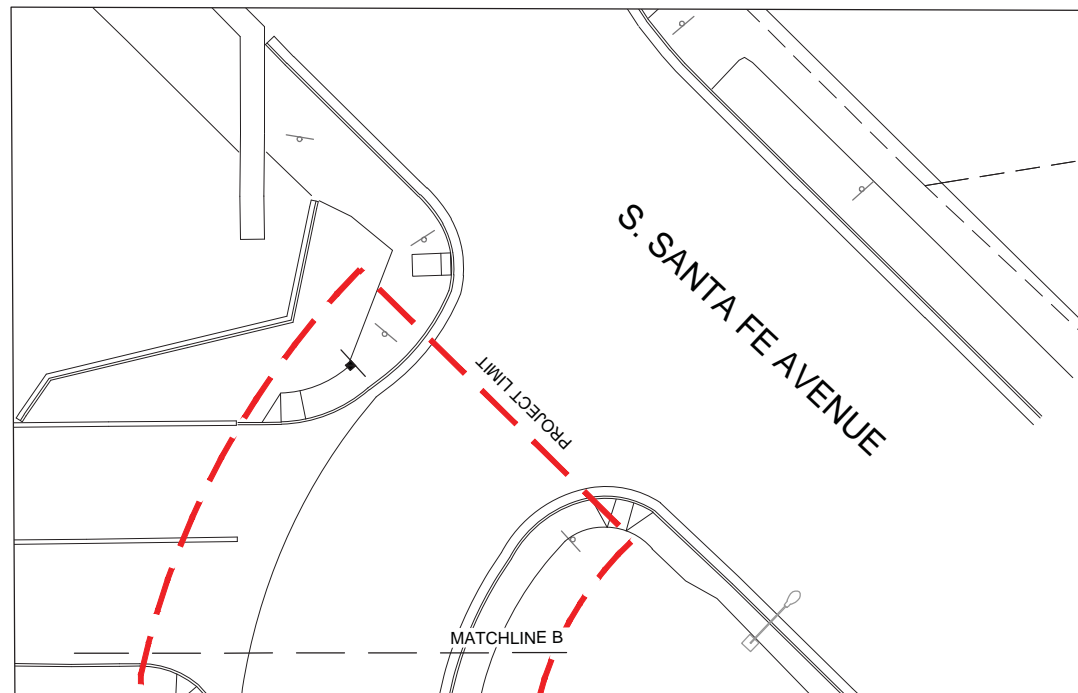


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SPECIALTY PAVEMENT LEGEND

AREA / SYMBOL	NAME	DESCRIPTION
	CAPITOL HILL SANDSCAPE (ALL PAVING NOT OTHERWISE NOTED)	STANDARD GRAY CONCRETE WITH SANDSCAPE FINISH AS PROVIDED BY AUTHORIZED SUPPLIER
	VISTA RIDGE SANDSCAPE	COLORLED CONCRETE (DAVIS COLOR "SUNSET ROSE") WITH SANDSCAPE FINISH AS PROVIDED BY AUTHORIZED SUPPLIER
	COLORLED CONCRETE PAVING	DAVIS COLOR "SUNSET ROSE"
	STANDARD GRAY CONCRETE PAVING	STANDARD GRAY CONCRETE PAVING
	RELOCATED SUMMIT BRICK PAVERS	MATCH EXISTING
	PLANTER CURBS AT BASE OF OVERLOOK WALL	COLORLED CONCRETE (DAVIS COLOR "SUNSET ROSE") WITH SANDSCAPE FINISH AS PROVIDED BY AUTHORIZED SUPPLIER
	ALL OTHER PLANTER CURBS	STANDARD CONCRETE PAVING
	CONCRETE BAND AROUND TREE GRATES	COLORLED CONCRETE
	CONCRETE BAND	VISTA RIDGE SANDSCAPE
	CIRCULAR PLANTERS	STANDARD CONCRETE PAVING
	WALK OF VALOR STAIRS / RAMPS	CAPITOL HILL SANDSCAPE
	OVERLOOK RETAINING WALL	CAPITOL HILL SANDSCAPE
	ALL OTHER STAIRS / RAMPS	STANDARD CONCRETE PAVING
	FREESTANDING SEAT WALL	CAPITOL HILL SANDSCAPE
	RETAINING SEAT WALL	STANDARD CONCRETE PAVING



LEGEND

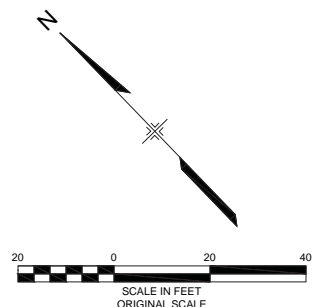
	PROJECT LIMIT
	PROPOSED 5' TREE GRATE W/ CONCRETE BAND REF. DETAIL 5, SHEET L104
	PROPOSED LANDSCAPE AREA REF. LANDSCAPE PLAN, SHEETS L106 & L107
	6' BENCH; REF. SITE FURNITURE SCHEDULE, THIS SHEET, AND DETAIL 4, SHEET L102
	TRASH RECEPTACLE; REF. SITE FURNITURE SCHEDULE, THIS SHEET, AND DETAIL 1, SHEET L102
	TABLE & CHAIRS; REF. SITE FURNITURE SCHEDULE, THIS SHEET, AND DETAILS 2 & 5, SHEET L102

LIGHTING LEGEND

	PROPOSED IN-GROUND LIGHT FIXTURE
	PROPOSED SINGLE GLOBE PEDESTRIAN LIGHT
	PROPOSED CLUSTER GLOBE PEDESTRIAN LIGHT
	PROPOSED LIGHT BOLLARD
	EXISTING SHOEBOX STREET LIGHT
	EXISTING COBRA STREET LIGHT
	EXISTING LIGHT BOLLARD
	EXISTING IN-GROUND LIGHT FIXTURE
	EXISTING SINGLE GLOBE PEDESTRIAN LIGHT

MATERIAL & DETAIL KEY LEGEND			
KEY	DESCRIPTION	REFERENCE	NOTES
A	CONCRETE PLANTER CURB	DETAIL 4, SHEET L104	REF. SPECIALTY PAVEMENT SCHEDULE, THIS SHEET
B	CIRCULAR PLANTER	DETAIL 1, SHEET L103	STANDARD GRAY
C	CIRCULAR PLANTER AT STEPS	DETAILS 2, 3 & 4, SHEET L103	STANDARD GRAY
D	RETAINING SEAT WALL	DETAIL 5, SHEET L103	STANDARD GRAY
E	OVERLOOK RETAINING WALL	DETAILS 1, 2 & 3, SHEET L104	CAPITOL HILL SANDSCAPE
F	FREESTANDING SEAT WALL	DETAIL 6 & 7, SHEET L103	CAPITOL HILL SANDSCAPE
G	RELOCATED BRICK PAVING	DETAIL 6, SHEET L104	
H	SILOAM SANDSTONE SLABS		
I	SILOAM SANDSTONE BOULDERS		
J	SLOPING WALK / CHEEK WALLS	DETAILS 3, 5, 7 & 8, SHEET L105	STANDARD GRAY
K	STAIRS AT PLAY / SEATING AREAS	DETAIL 6, SHEET L105	STANDARD GRAY
L	STAIRS AT WALK OF VALOR	DETAIL 6, SHEET L105	CAPITOL HILL SANDSCAPE
M	CONCRETE PAVING	PER CITY OF PUEBLO STANDARD CONSTRUCTION SPECIFICATIONS, 6" DEPTH, 4500 PSI (7-SACK MIX)	REF. SPECIALTY PAVEMENT SCHEDULE, THIS SHEET
N	COLORLED CONCRETE BAND	DETAIL 2, SHEET L105	VISTA RIDGE SANDSCAPE
O	ORNAMENTAL METAL RAILING	DETAIL 1, SHEET L105	
P	STAIR HANDRAIL	DETAIL 4, SHEET L105	
Q	BENCH - 6' LENGTH	DETAIL 4, SHEET L102	REF. SITE FURNITURE SCHEDULE, THIS SHEET
R	BOLLARD	DETAIL 6, SHEET L102	REF. SITE FURNITURE SCHEDULE, THIS SHEET
S	TREE GRATE	DETAIL 5, SHEET L104	REF. SITE FURNITURE SCHEDULE, THIS SHEET
T	TRASH RECEPTACLE	DETAIL 1, SHEET L102	REF. SITE FURNITURE SCHEDULE, THIS SHEET
U	TABLE & CHAIRS	DETAIL 2 & 5, SHEET L103	REF. SITE FURNITURE SCHEDULE, THIS SHEET
V	PLANTING BED	LANDSCAPE PLAN, SHEETS L106 & L107	
W	HAWK PEDESTRIAN SIGNAL CROSSING		

SITE FURNITURE SCHEDULE				
TYPE	QUANTITY	MANUFACTURER	MODEL NO.	COLOR
TRASH RECEPTACLE	5	LANDSCAPE FORMS, OR APPROVED EQUAL	PARC VUE TOP OPEN	SILVER
BENCH	4		PARC VUE BACKED ARMS 72" WITH SEAT DIVIDERS	
TABLE	19		PARC CENTRE 30" ROUND	
CHAIRS	76 (4 PER TABLE)		PARC CENTRE ARMLESS	
TREE GRATE	4	IRONSMITH, OR APPROVED EQUAL	#6086 MARINA 60" SQ.	UNPAINTED CAST IRON
REMOVABLE BOLLARD	13	FORMS & SURFACES, OR APPROVED EQUAL	LBLCO-604-N W/REMOVABLE BASE	STAINLESS STEEL SATIN FINISH
IN-GROUND LIGHT FIXTURE	58	LUMASCAPE, OR APPROVED EQUAL	LS393LED	POLISHED
SINGLE GLOBE PEDESTRIAN LIGHT	31	PER CITY OF PUEBLO STREETSCAPE GUIDELINES; COORDINATE WITH BLACK HILLS ENERGY		BLACK



REFERENCE DRAWINGS	No.	DATE	DESCRIPTION	BY
X-481-TITLE-LANDSCAPE				
X-946-PR-BASE				
X-946-EX-BASE-COMBINED				
X-479-PR-BASE - Gateway Park				
PDC - Matrix Field-Portside Location 10-25-17				
X-946-EX-UTIL-COMBINED				
X-946-EX-TOPO-COMBINED				
X-946-EX-TEXT-OTHERS				
X-946-PR-TOPD				
1400300_RTA EX-Matrix revised 10-25-17				
F001TINGS				
X-946-EX-BASE-CHANNEL EXTERIOR				
X-946-PR-LITL				
X-946-EX-LIGHTS				
X-MAIN INTERSECTION				
X-479-PR-LANDSCAPE-CD - Gateway Park				
X-946-PR-LIGHTS				
X-946-PR-LANDSCAPE				
transfer-Matrix				
X-PR-LIMIT-Gateway Park				

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CTB FILE:	---
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PREPARED BY:

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 17.946.001

EDA PROJECT NUMBER: 05-01-05793				
HISTORIC ARKANSAS RIVERWALK OF PUEBLO GATEWAY PLAZA PROJECT				
SITE IMPROVEMENTS PLAN				
DESIGNED BY:	RCE	SCALE:	DATE ISSUED:	MAY 31, 2018
DRAWN BY:	TJR	HORIZ. 1" = 20'	DRAWING No.	L101
CHECKED BY:	RCE	VERT. N/A	SHEET	16 OF 31



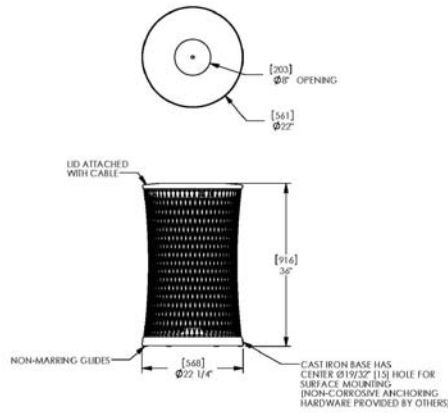
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TOLL FREE: 1-866-695-5862
PHONE: (650) 595-5862
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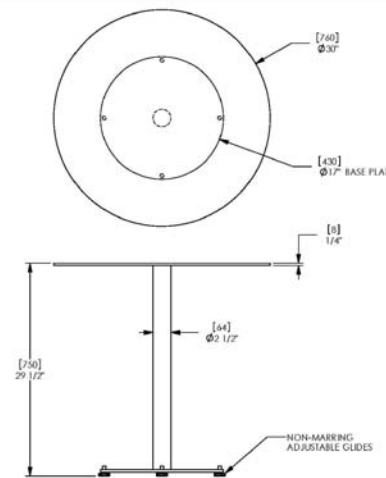
Parc Vue® Litter Receptacle, Top Opening, Without Um-Shaped Lid
Product Drawing
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landscapeforms Drawing: PV64-02
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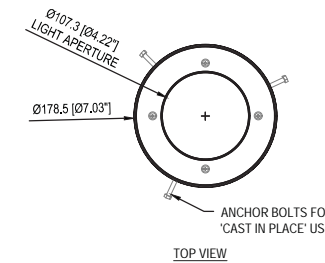
1 TRASH RECEPTACLE, OR APPROVED EQUAL
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Parc Centre® Table, 30" Round Top, Freestanding
Product Drawing
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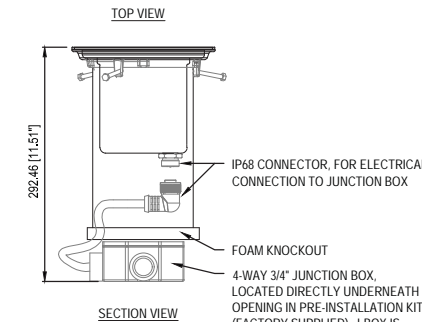
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2. DO NOT SCALE DRAWING.
3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
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5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER L102-105.

INGRADE
MODEL: LS393



- SELECT DESIRED LAMP SOURCE
 - 35W MAX MR16 IRC (GU5.3)
- SELECT DESIRED FINISH
 - SS316: POLISHED
 - SS316: BRUSHED
 - CUSTOM: RAL FINISH (SPECIFY)
- SELECT DESIRED LENS OPTION
 - OPTICLEAR™ GLASS
 - GRIPGLASS™

3 IN-GROUND LIGHT FIXTURE, OR APPROVED EQUAL
NTS

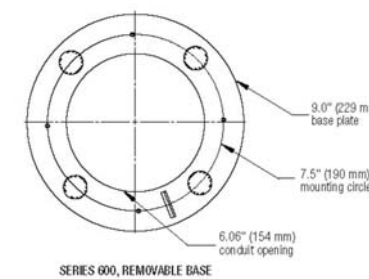


LIGHT COLUMN BOLLARD

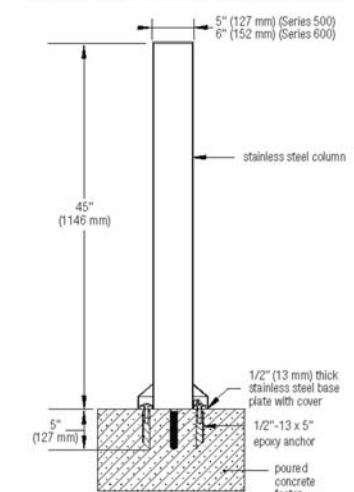
NON-ILLUMINATED BOLLARDS

NOMINAL DIMENSIONS

BASE PLATE MOUNTING DETAILS



SURFACE MOUNT WITH REMOVABLE BASE



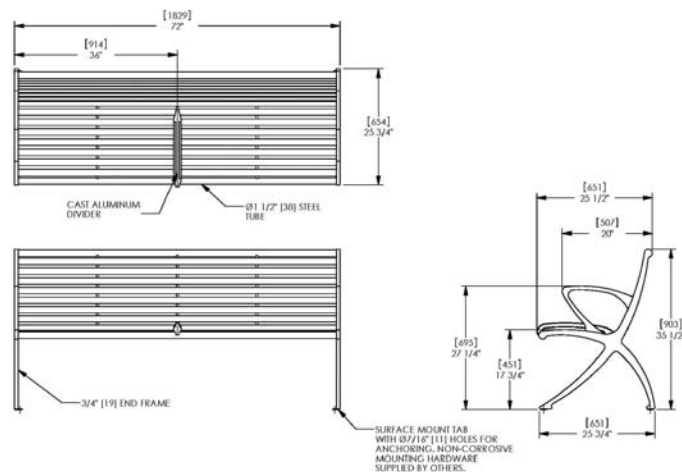
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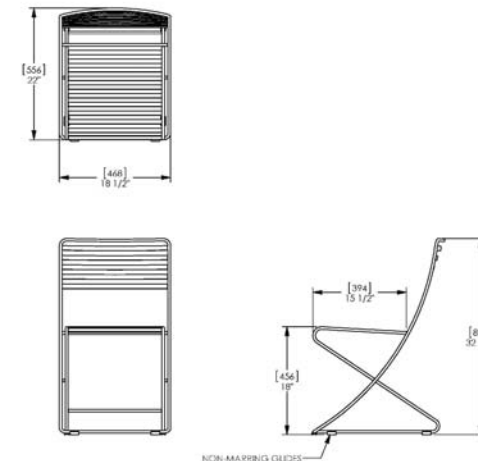
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landscapeforms Drawing: PC018-01
Dimensions are in inches [mm]
U.S. Patent Nos. US72-436, 2005-21
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5 CHAIRS, OR APPROVED EQUAL
NTS

REFERENCE DRAWINGS	No.	DATE	DESCRIPTION	BY
Ameristar Railing LEX45				
4788-007 HARP_details - WALLS				
928-360 3x481-TITLE-LANDSCAPE				
Planting Details				
Star Handrail				
Amenity Zone Brick				
Concrete Steps				
DecorativeSteelFence1-REV				
3348RPM-WALL-D1 - FOOTING				
Concrete Band				

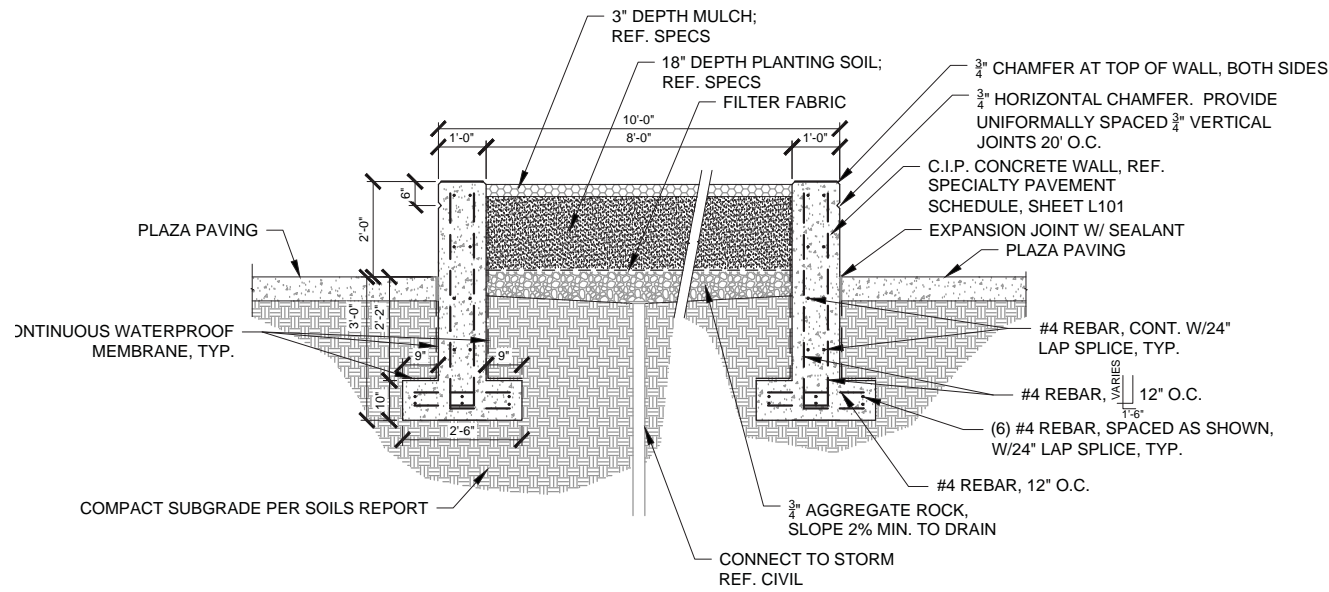
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SEAL		EDA PROJECT NUMBER: 05-01-05793	
		HISTORIC ARKANSAS RIVERWALK OF PUEBLO GATEWAY PLAZA PROJECT	
		SITE IMPROVEMENT DETAILS	
DESIGNED BY: RCE	SCALE: NA	DATE ISSUED: MAY 31, 2018	DRAWING No. L102
DRAWN BY: TJR	HORIZ: NA	SHEET 17 OF 31	
CHECKED BY: RCE	VERT: N/A		

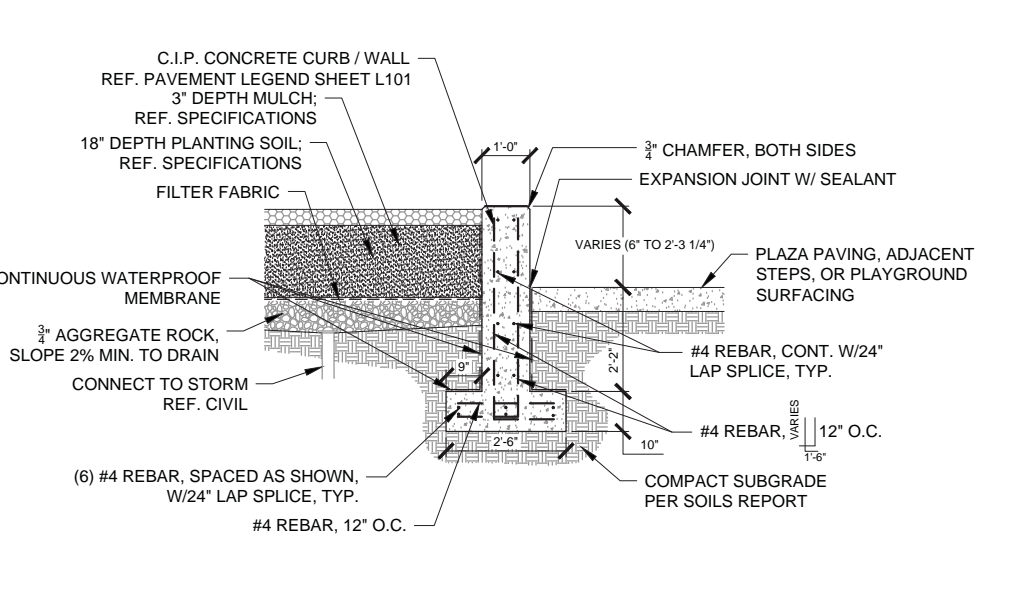
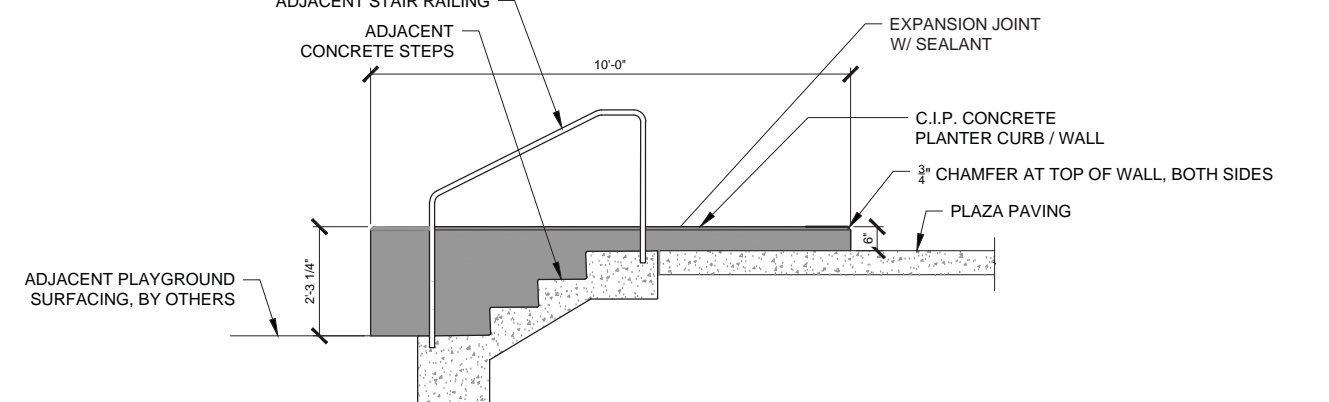


Know what's below.
Call before you dig.



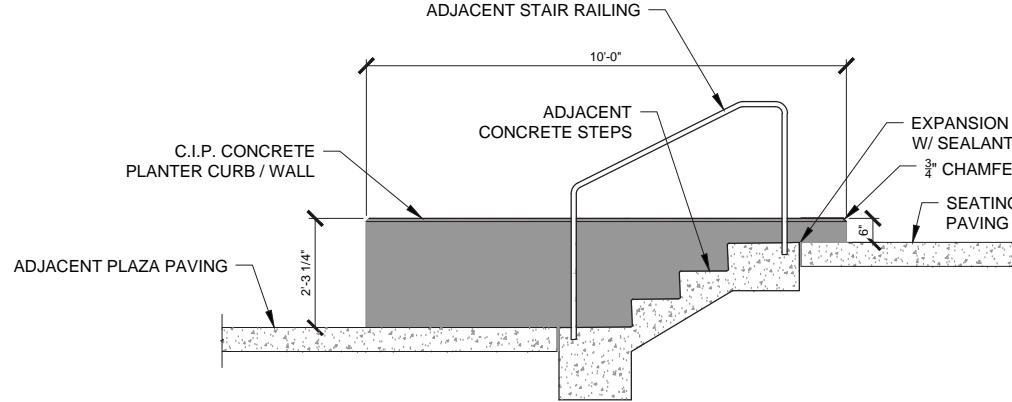
1 CIRCULAR PLANTER SEAT WALL

1/2" = 1'-0"



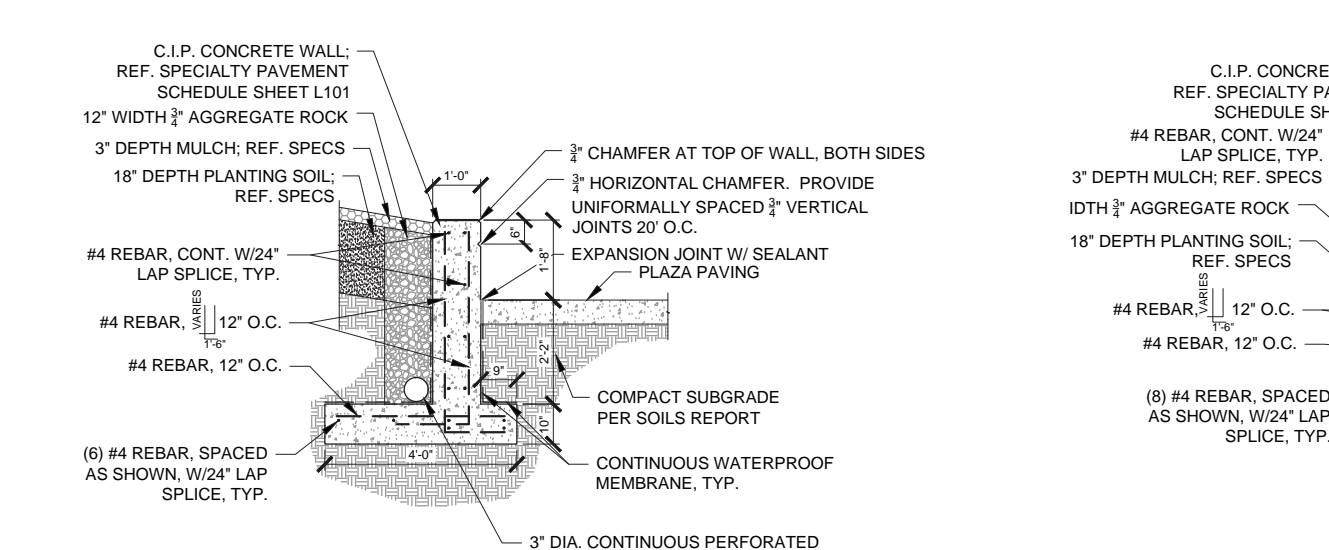
2 CIRCULAR PLANTER AT PLAY AREA OR SEATING TERRACE STEPS - SECTION

1/2" = 1'-0"



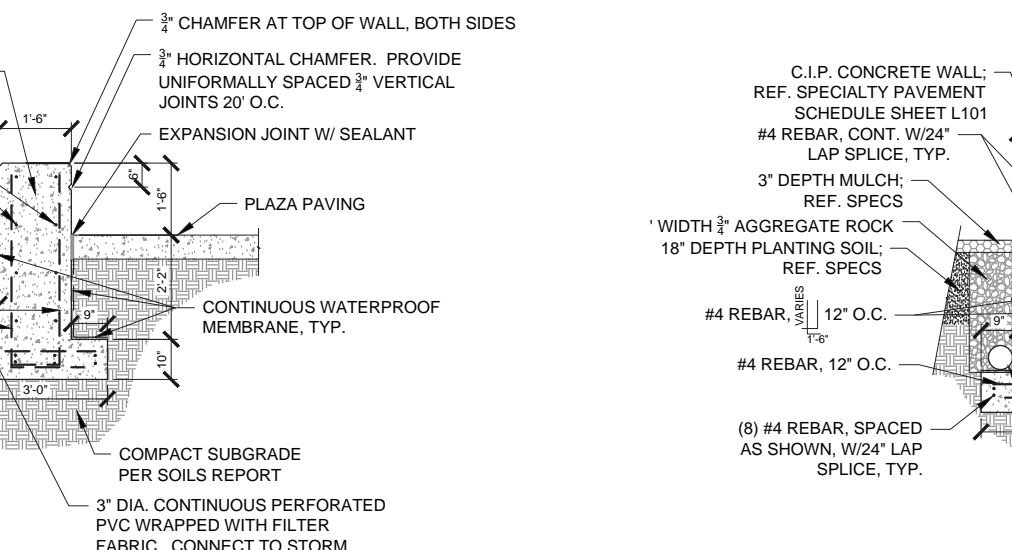
3 CIRCULAR PLANTER AT PLAY AREA - ELEVATION

1/2" = 1'-0"



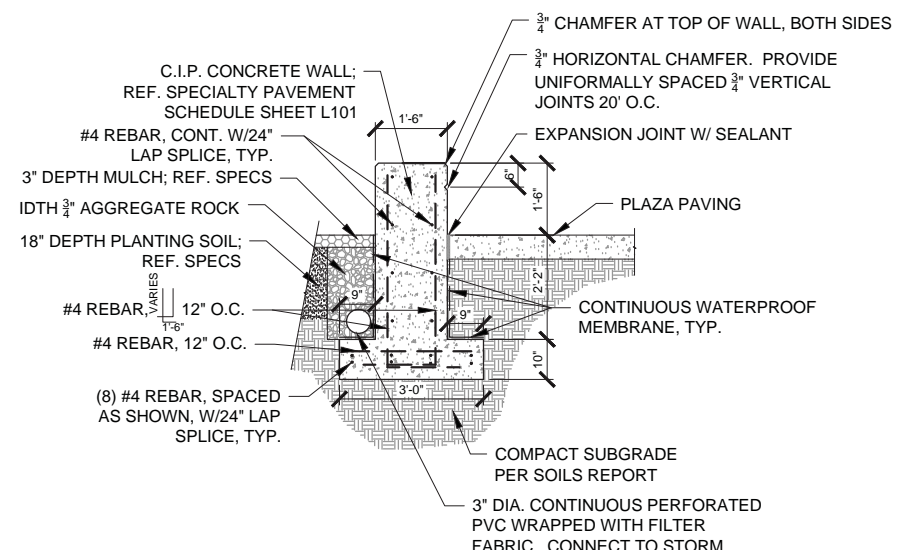
4 CIRCULAR PLANTER AT SEATING TERRACE - ELEVATION

1/2" = 1'-0"



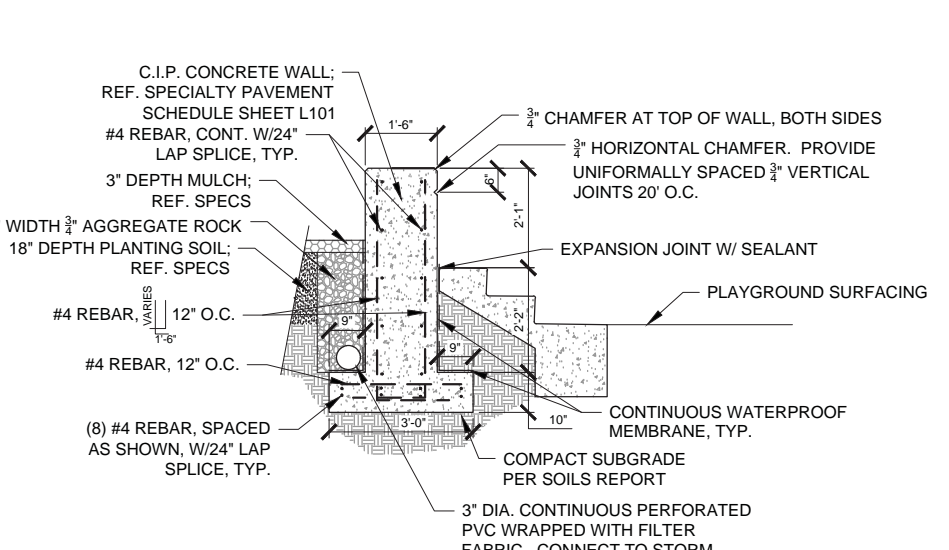
5 RETAINING SEAT WALL

1/2" = 1'-0"



6 FREESTANDING SEAT WALL

1/2" = 1'-0"



7 FREESTANDING SEAT WALL AT PLAY AREA STEPS

1/2" = 1'-0"

REFERENCE DRAWINGS	No.	DATE	DESCRIPTION	BY
Ameristar Railing LEX45 4788-007 HARP_details - WALLS 928-360 X-481-TITLE-LANDSCAPE Planting Details Star Handrail Amenity Zone Brick Concrete Steps DecorativeSteelFence1-REV 3348R918-WALL-D1 - FOOTING Concrete Band				

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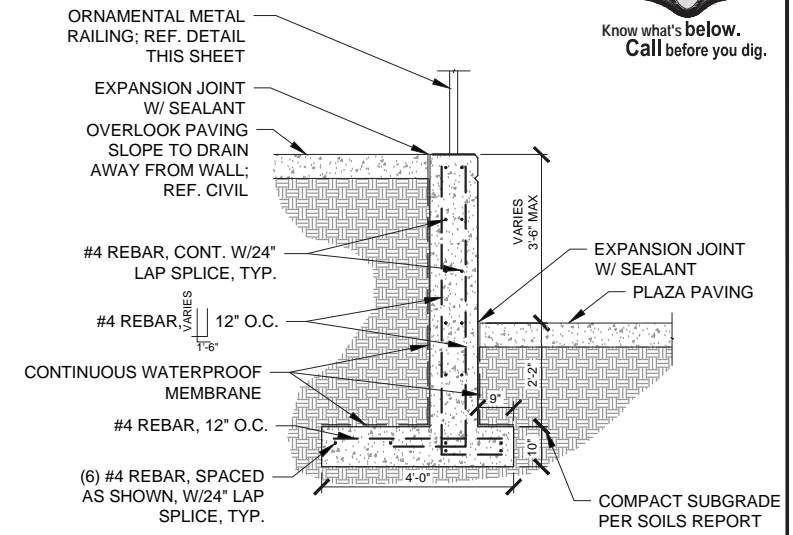
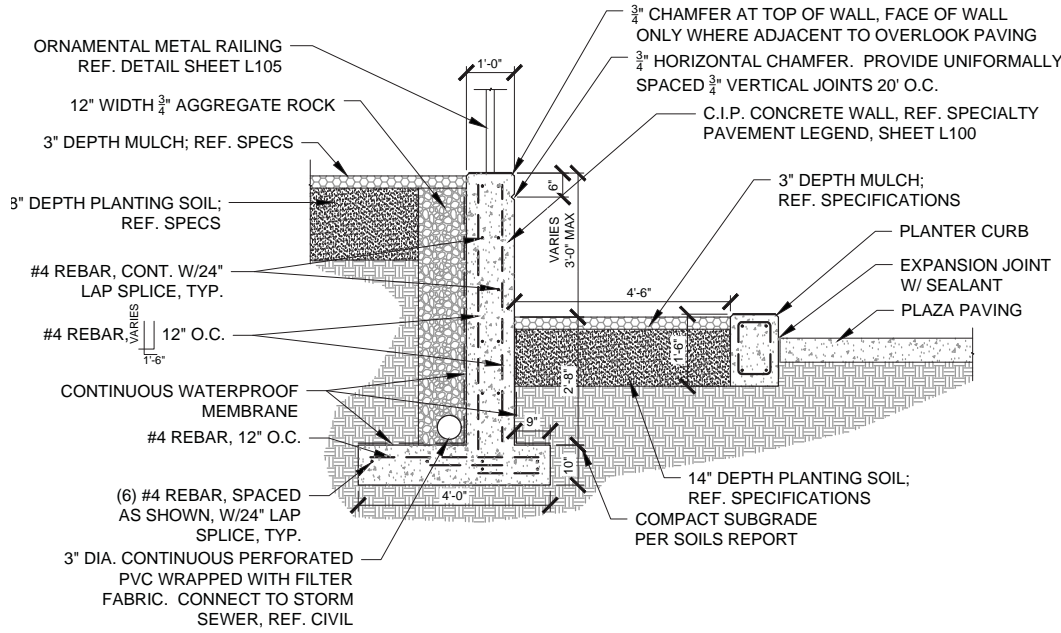
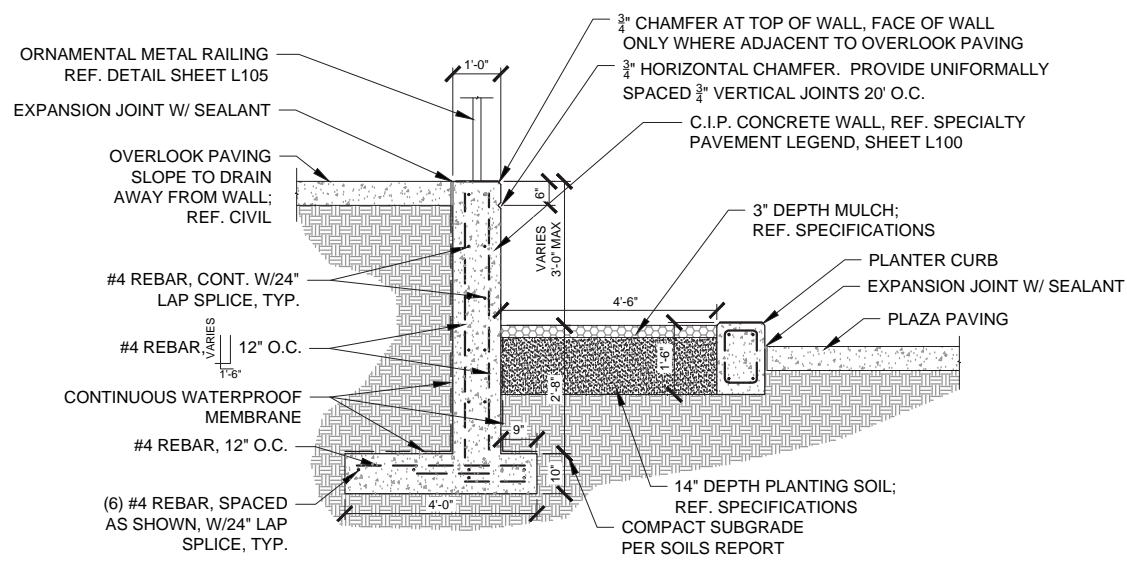
SEAL	EDA PROJECT NUMBER: 05-01-05793
	HISTORIC ARKANSAS RIVERWALK OF PUEBLO GATEWAY PLAZA PROJECT
	SITE IMPROVEMENT DETAILS

PREPARED BY:

DESIGNED BY:	RCE	SCALE:	DATE ISSUED:	MAY 14, 2018	DRAWING No.
DRAWN BY:	TJR	HORIZ:	NA		
CHECKED BY:	RCE	VERT:	N/A	SHEET	18 OF 31
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 17.481.009					L103



Know what's below.
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1 OVERLOOK RETAINING WALL AT LOWER PLANTER BED

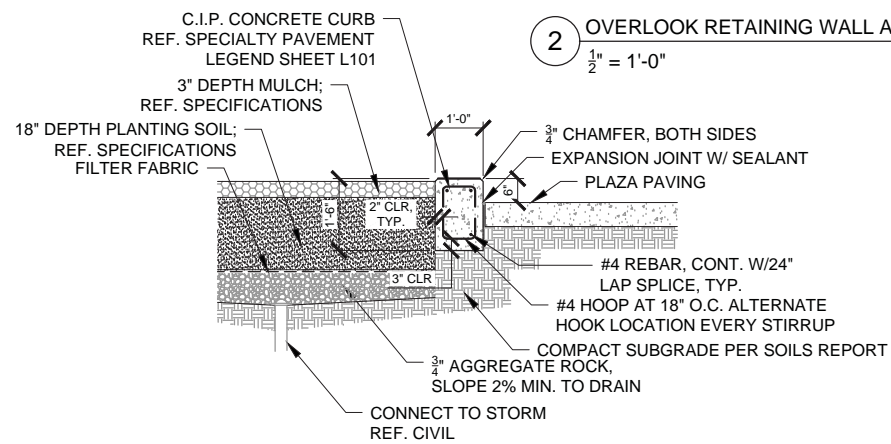
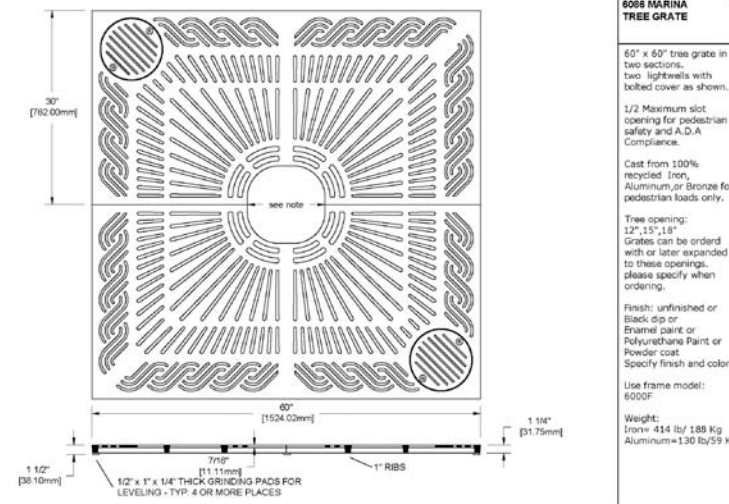
1/2" = 1'-0"

2 OVERLOOK RETAINING WALL AT UPPER LANDSCAPE BED

1/2" = 1'-0"

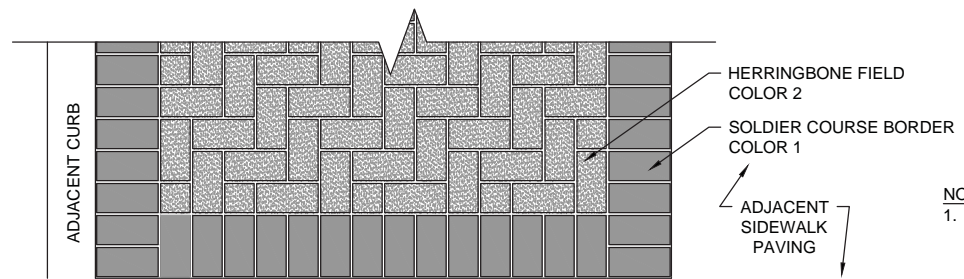
3 OVERLOOK RETAINING WALL AT PLAZA PAVING

1/2" = 1'-0"

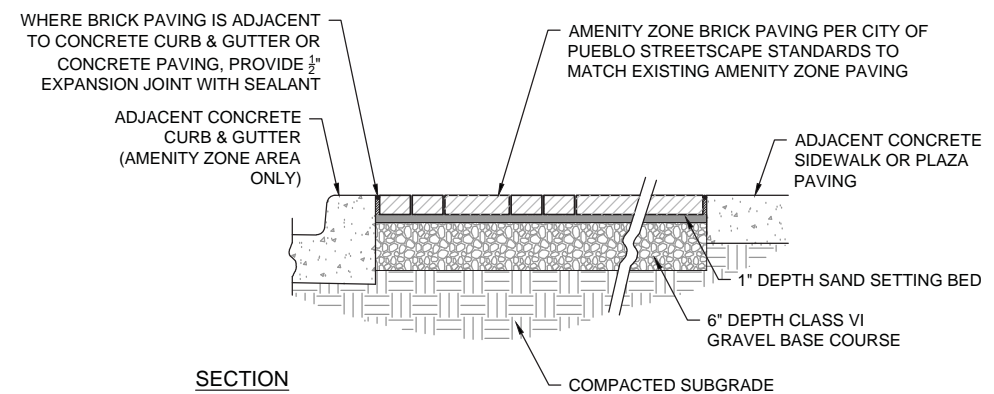


4 PLANTER CURB

1/2" = 1'-0"



AMENITY ZONE PLAN VIEW (MATCH EXISTING PATTERN/COLORS)
REF. NOTE #4 FOR PATTERN FOR RELOCATED SUMMIT BRICK PAVING AREA



SECTION

- NOTES:
- FOR BRICK IN AMENITY ZONE ALONG CENTRAL MAIN STREET, BRICK COLORS SHALL MATCH EXISTING BRICK AMENITY ZONE.
 - FOR BRICK IN AMENITY ZONE ALONG CENTRAL MAIN STREET, BRICK SHALL BE 4"x8", 4 1/2"x8, OR 3 1/2" X 8" AS NECESSARY TO FIT SPACE. REF. EXISTING BRICK AMENITY ZONE PAVING.
 - FOR BRICK IN RELOCATED SUMMIT BRICK PAVING AREA, ANY NEW BRICK REQUIRED SHALL MATCH EXISTING BRICK IN SIZE, SHAPE, COLOR, AND PATTERN.
 - FOR BRICK IN RELOCATED SUMMIT BRICK PAVING AREA, PATTERN SHALL MATCH EXISTING PATTERN (BASKETWEAVE).

5 TREE GRATE NTS

6 BRICK PAVING 1" = 1'-0"

REFERENCE DRAWINGS	No.	DATE	DESCRIPTION	BY
Ameristar Railing LEX45 4788-007 HARP_details - WALLS 928-360 X-481-TITLE-LANDSCAPE Planting Details Star Handrail Amenity Zone Brick Concrete Steps DecorativeSteelFence1-REV 3348B9P9-WALL-D1 - FOOTING Concrete Band				
COMPUTER FILE MANAGEMENT				
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CTB FILE: ---				
PLOT DATE: 6/14/2018 9:51 AM				
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SEAL

EDA PROJECT NUMBER: 05-01-05793

HISTORIC ARKANSAS RIVERWALK OF PUEBLO GATEWAY PLAZA PROJECT

SITE IMPROVEMENT DETAILS

PREPARED BY: Matrix DESIGN GROUP

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 17.481.009

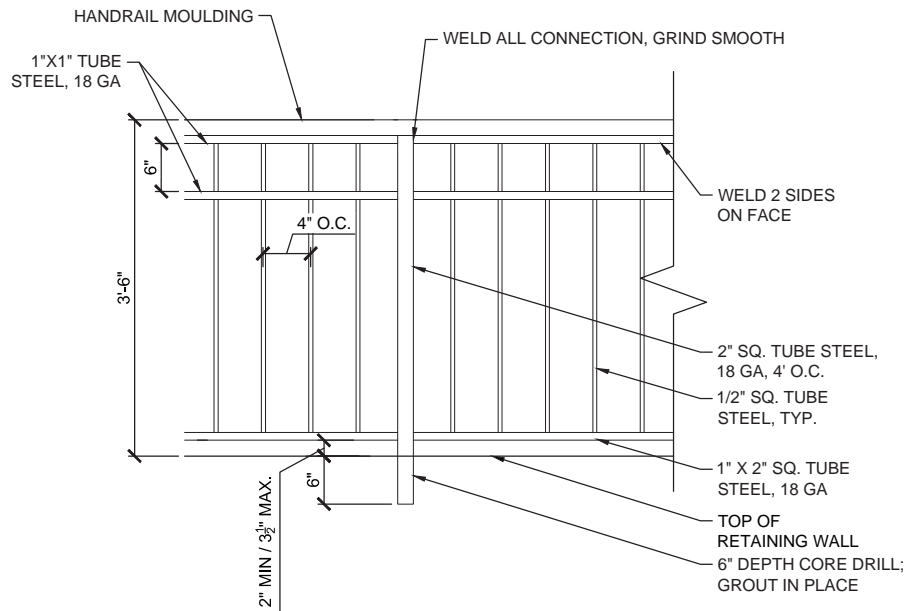
DESIGNED BY: RCF	SCALE: NA	DATE ISSUED: MAY 14, 2018	DRAWING No. L104
CHECKED BY: RCE	HORIZ: NA	SHEET 19 OF 31	
	VERT: N/A		



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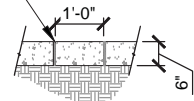
NOTES:

- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION. SHOP DRAWINGS SHALL INCLUDE HANDRAIL MOULDING.
- COLOR TO BE BLACK.



1 ORNAMENTAL METAL RAILING
1" = 1'-0"

EXPANSION JOINT
W/ SEALANT, TYP.
EACH SIDE OF BAND



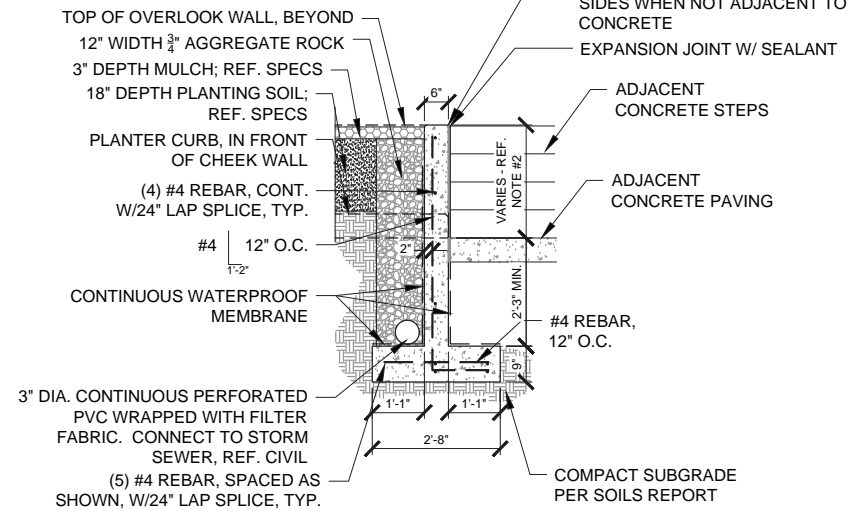
NOTES:

- REF. SITE IMPROVEMENT PLAN FOR COLOR AND FINISH OF CONCRETE. CONCRETE SHALL BE PER CITY OF PUEBLO STANDARD CONSTRUCTION SPECIFICATIONS, 6" DEPTH, 4500 PSI (7-SACK MIX)
- PROVIDE SCORE JOINTS 5' O.C.

2 CONCRETE BAND
1/2" = 1'-0"

NOTES:

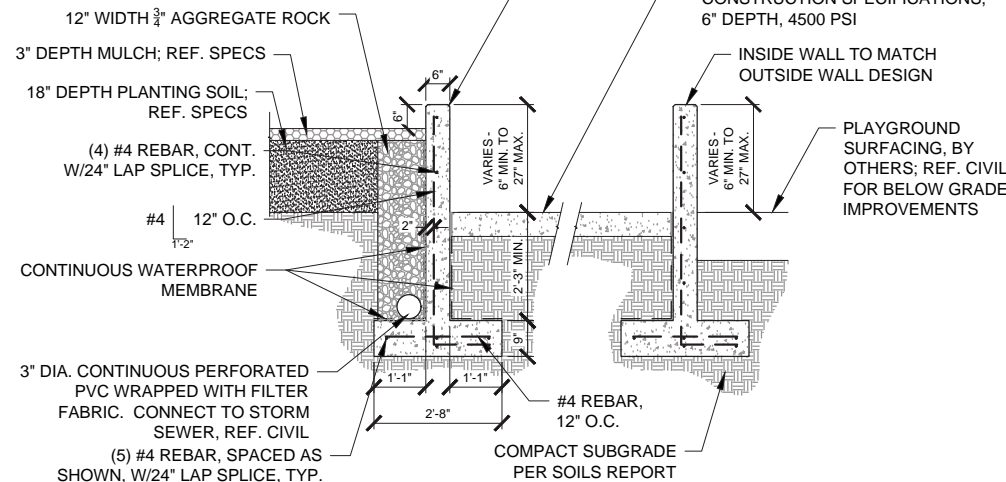
- TOP OF WALL SLOPES TO MAINTAIN 6" ABOVE STAIR NOSING, AS SHOWN ON CONCRETE STEPS DETAIL, THIS SHEET
- THIS DIMENSION VARIES (11 1/2" MIN. TO 24 1/4" MAX.); MAINTAIN 6" ABOVE STAIR NOSING, AS SHOWN ON CONCRETE STEPS DETAIL, THIS SHEET



3 CHEEK WALL AT OVERLOOK STEPS
1/2" = 1'-0"

NOTES:

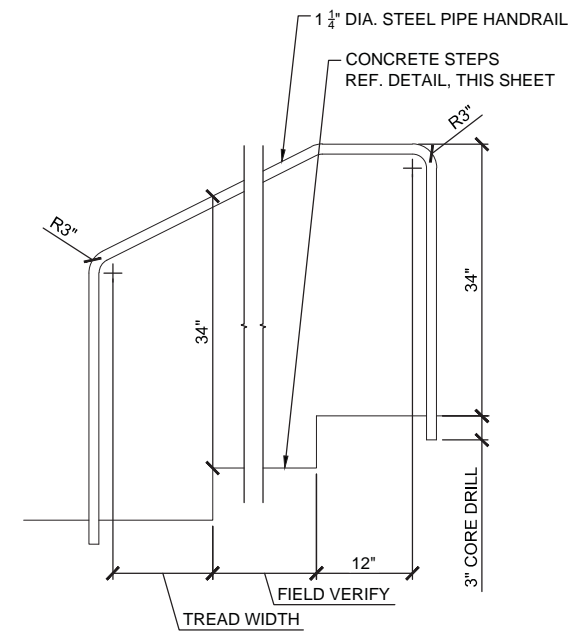
- TOP OF WALL SHALL REMAIN LEVEL AT MIN. 6" ABOVE GRADE OF ADJACENT PLANTING BED/SLOPING WALK.
- PROVIDE 10 1/2" STEP IN FOOTING AT MIDPOINT OF LENGTH OF WALL. REF. DETAIL THIS SHEET.



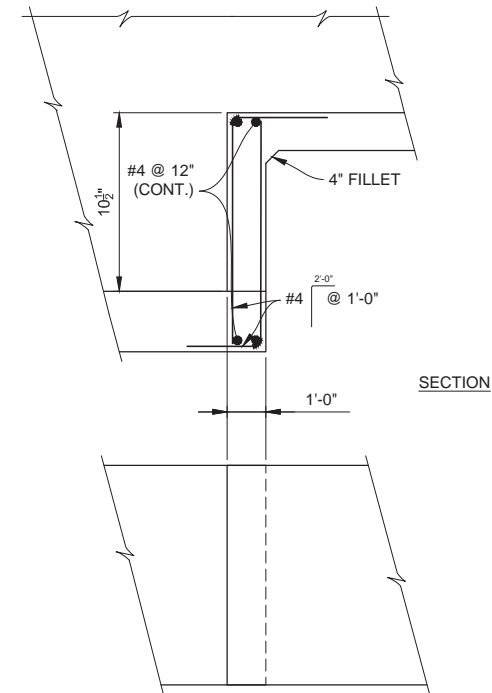
7 SLOPING WALK / CHEEK WALLS AT PLAYGROUND
1/2" = 1'-0"

NOTES:

- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION.
- PIPE FINISH SHALL BE STAINLESS STEEL.
- MAXIMUM DISTANCE BETWEEN POSTS SHALL BE 4' O.C. IF LENGTH OF STEPS OR RAMP IS LONGER, INTERMEDIATE POSTS SHALL BE PROVIDED.



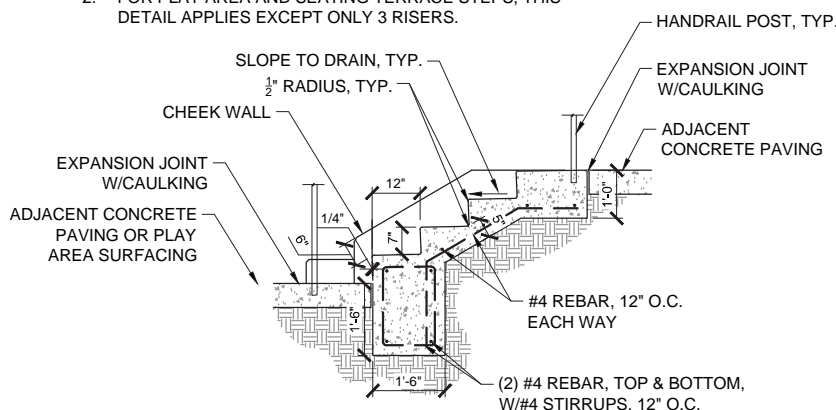
4 STAIR HANDRAIL
1" = 1'-0"



5 NTS
SECTION

NOTES:

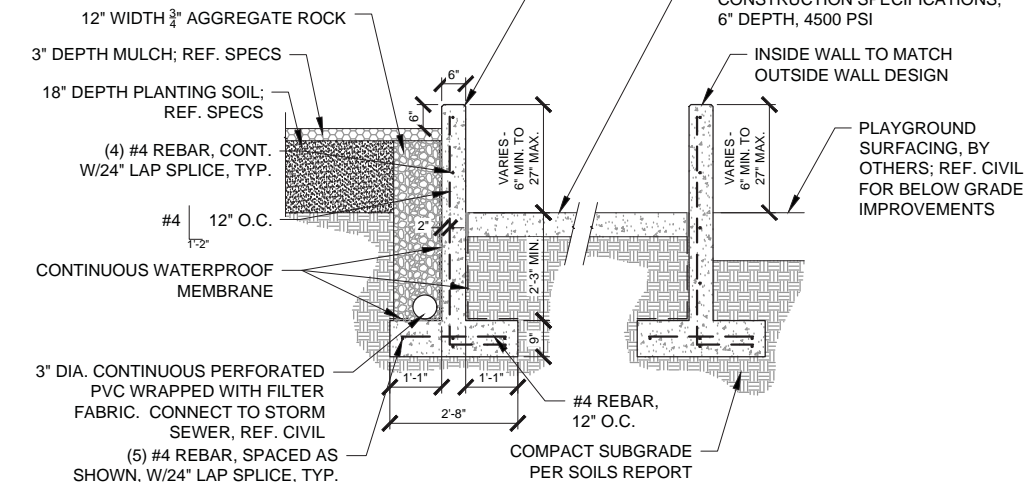
- CONTRACTOR TO FIELD VERIFY FINISH GRADE ELEVATIONS ADJACENT TO STEPS AND ADJUST IF NECESSARY.
- FOR PLAY AREA AND SEATING TERRACE STEPS, THIS DETAIL APPLIES EXCEPT ONLY 3 RISERS.



6 CONCRETE STEPS
1/2" = 1'-0"

NOTES:

- TOP OF WALL SHALL REMAIN LEVEL AT MIN. 6" ABOVE GRADE OF ADJACENT PLANTING BED/SLOPING WALK.
- PROVIDE 10 1/2" STEP IN FOOTING AT MIDPOINT OF LENGTH OF WALL. REF. DETAIL THIS SHEET.



8 SLOPING WALK / CHEEK WALLS AT SEATING TERRACE
1/2" = 1'-0"

REFERENCE DRAWINGS	No.	DATE	DESCRIPTION	BY
Ameristar Railing LEX45 4788-007 HARP_details - WALLS 928-360 3-481-TITLE-LANDSCAPE Planting Details Star Handrail Amenity Zone Brick Concrete Steps DecorativeSteelFence1-REV 3348R99A-WALL-D1 - FOOTING Concrete Band				

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PLOT DATE:	6/14/2018 9:51 AM
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PREPARED BY:



SEAL

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 17.481.009

EDA PROJECT NUMBER: 05-01-05793			
HISTORIC ARKANSAS RIVERWALK OF PUEBLO GATEWAY PLAZA PROJECT			
SITE IMPROVEMENT DETAILS			
DESIGNED BY: RCE	SCALE: NA	DATE ISSUED: MAY 14, 2018	DRAWING No. L105
CHECKED BY: RCE	HORIZ: NA	SHEET 20 OF 31	



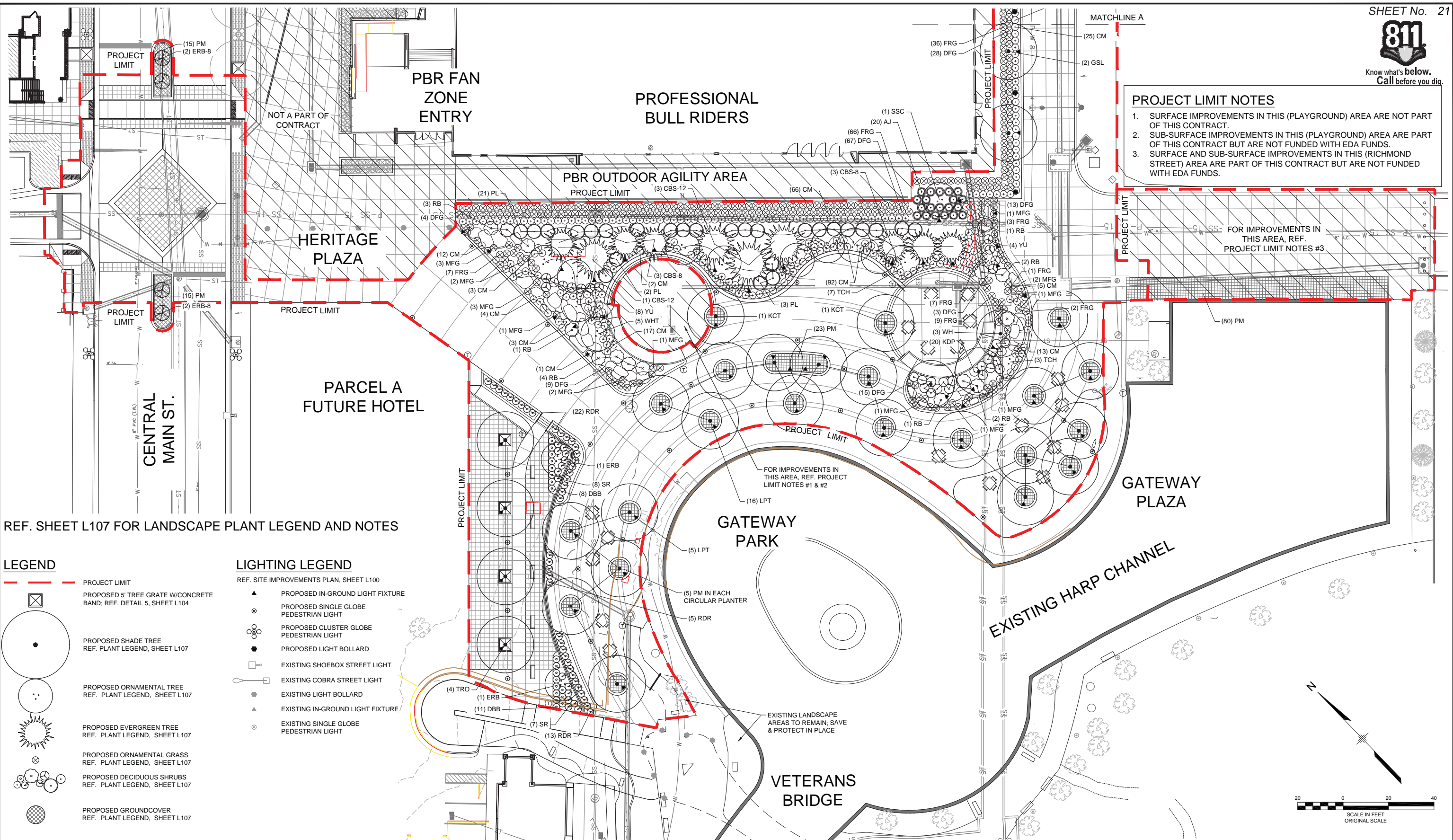
Know what's below. Call before you dig.

PROJECT LIMIT NOTES

1. SURFACE IMPROVEMENTS IN THIS (PLAYGROUND) AREA ARE NOT PART OF THIS CONTRACT.
2. SUB-SURFACE IMPROVEMENTS IN THIS (PLAYGROUND) AREA ARE PART OF THIS CONTRACT BUT ARE NOT FUNDED WITH EDA FUNDS.
3. SURFACE AND SUB-SURFACE IMPROVEMENTS IN THIS (RICHMOND STREET) AREA ARE PART OF THIS CONTRACT BUT ARE NOT FUNDED WITH EDA FUNDS.

FOR IMPROVEMENTS IN THIS AREA, REF. PROJECT LIMIT NOTES #3

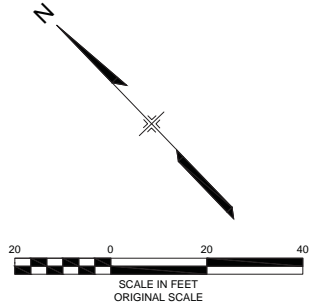
FOR IMPROVEMENTS IN THIS AREA, REF. PROJECT LIMIT NOTES #1 & #2



REF. SHEET L107 FOR LANDSCAPE PLANT LEGEND AND NOTES

- LEGEND**
- PROJECT LIMIT
 - PROPOSED 5' TREE GRATE W/CONCRETE BAND; REF. DETAIL 5, SHEET L104
 - PROPOSED SHADE TREE REF. PLANT LEGEND, SHEET L107
 - PROPOSED ORNAMENTAL TREE REF. PLANT LEGEND, SHEET L107
 - PROPOSED EVERGREEN TREE REF. PLANT LEGEND, SHEET L107
 - PROPOSED ORNAMENTAL GRASS REF. PLANT LEGEND, SHEET L107
 - PROPOSED DECIDUOUS SHRUBS REF. PLANT LEGEND, SHEET L107
 - PROPOSED GROUNDCOVER REF. PLANT LEGEND, SHEET L107

- LIGHTING LEGEND**
REF. SITE IMPROVEMENTS PLAN, SHEET L100
- PROPOSED IN-GROUND LIGHT FIXTURE
 - PROPOSED SINGLE GLOBE PEDESTRIAN LIGHT
 - PROPOSED CLUSTER GLOBE PEDESTRIAN LIGHT
 - PROPOSED LIGHT BOLLARD
 - EXISTING SHOEBOX STREET LIGHT
 - EXISTING COBRA STREET LIGHT
 - EXISTING LIGHT BOLLARD
 - EXISTING IN-GROUND LIGHT FIXTURE
 - EXISTING SINGLE GLOBE PEDESTRIAN LIGHT



REFERENCE DRAWINGS	No.	DATE	DESCRIPTION	BY
X-481-TITLE-LANDSCAPE				
X-946-PR-BASE				
X-946-EX-BASE-COMBINED				
X-479-PR-BASE - Gateway Park				
PCC - Matrix Field/Pothole Locations 10-25-17				
X-946-EX-UTIL-COMBINED				
X-946-EX-TOP-COMBINED				
X-946-EX-TEXT-OTHERS				
X-946-PR-TOPO				
1402000_PIA-EX-Matrix revised				
FOOTINGS				
X-946-EX-BASE-CHANNEL EX				
X-946-PR-UTIL				
X-946-EX-LIGHTS				
X-MAIN INTERSECTION				
X-479-PR-LANDSCAPE-CD - Gateway Park				
X-946-PR-LIGHTS				
X-946-PR-LANDSCAPE transfer-Matrix				

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EDA PROJECT NUMBER: 05-01-05793			
HISTORIC ARKANSAS RIVERWALK OF PUEBLO GATEWAY PLAZA PROJECT			
LANDSCAPE PLAN			
DESIGNED BY: RCE	SCALE: HORIZ 1"=20'	DATE ISSUED: MAY 31, 2018	DRAWING No. L106
CHECKED BY: RCE	VERT. N/A	SHEET 21 OF 31	



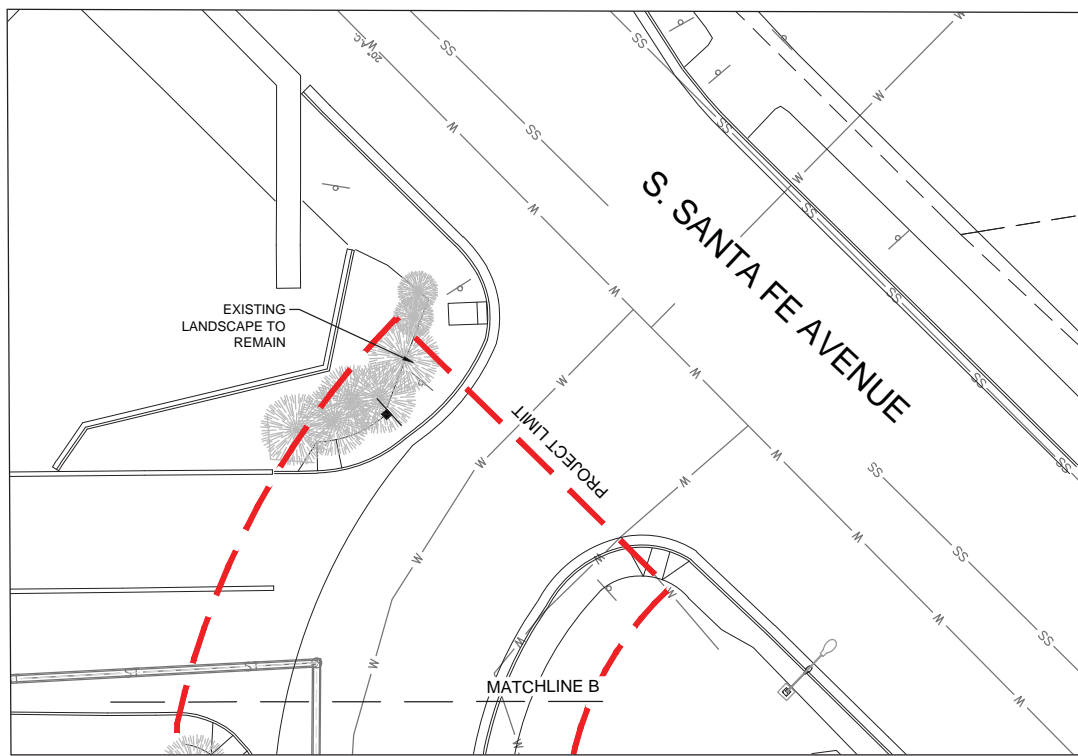
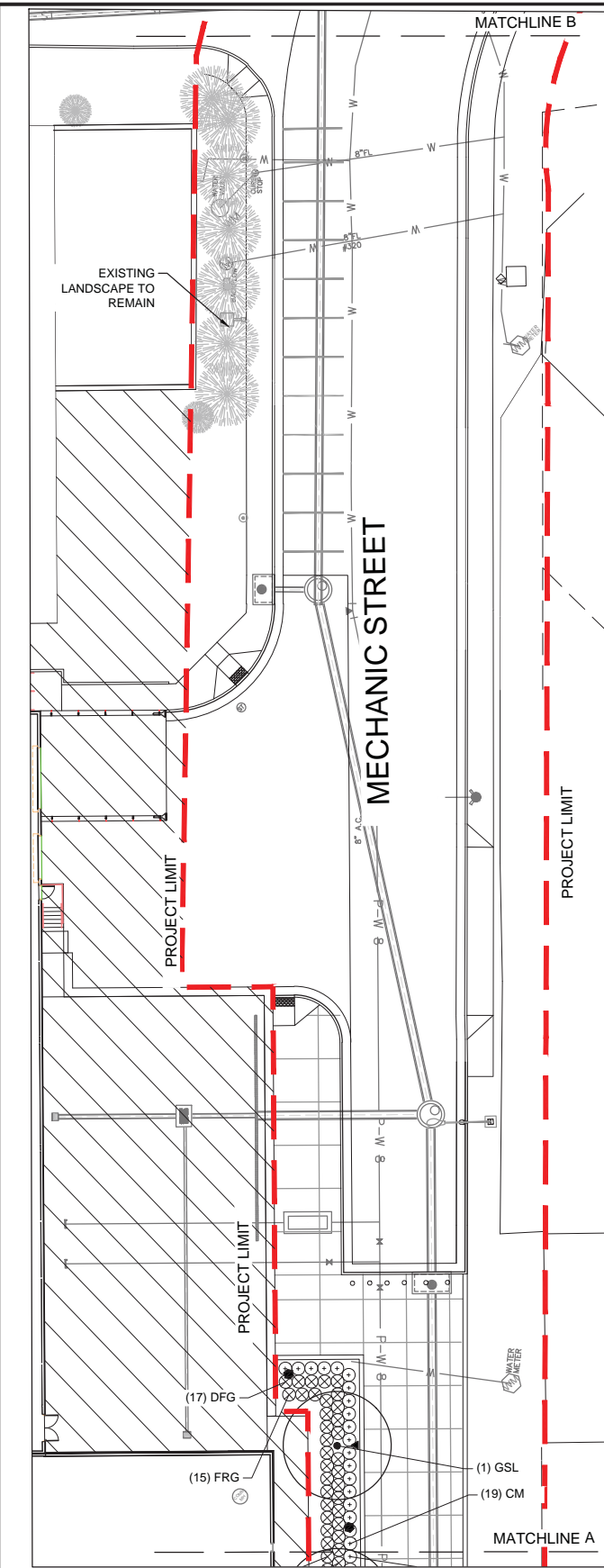
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LANDSCAPE NOTES

1. LANDSCAPING SHALL BE PLANTED AND MAINTAINED IN A LIVING CONDITION BY THE OWNER. ALL LANDSCAPE IMPROVEMENTS / MATERIALS MUST HAVE A 100% ON-GOING SURVIVAL RATE. ANY DEAD OR DAMAGED PLANT MATERIAL, (AS DETERMINED BY THE CITY), SHALL BE REPLACED WITHIN 6 MONTHS OF NOTIFICATION BY THE CITY. ALL LANDSCAPE IMPROVEMENTS / MATERIALS MUST BE MAINTAINED AS REQUIRED BY THE LANDSCAPE REGULATIONS AND THIS PLAN.
2. ALL CONSTRUCTION SHALL BE DONE PER REGULATIONS OF GOVERNING AGENCIES.
3. SOIL PREPARATION FOR LANDSCAPE AREAS SHALL INCLUDE TOPSOIL AND/OR ORGANIC MATTER (COMPOST OR AGED GROUND MANURE) AND SHALL BE ADDED AT A RATE OF FIVE CUBIC YARDS PER ONE THOUSAND SQUARE FEET AND TILLED 8" DEPTH INTO THE SOIL.
4. SHRUB BEDS ARE REQUIRED TO BE AMENDED AND TILLED IN THEIR ENTIRETY.
5. AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM IS REQUIRED FOR ALL LANDSCAPE AREAS. ALL PLANTING BEDS, TREES AND SHRUBS ON THIS PLAN SHALL BE IRRIGATED WITH A PERMANENT, AUTOMATIC UNDERGROUND DRIP IRRIGATION SYSTEM.
6. IRRIGATION SYSTEMS SHALL BE MAINTAINED AND PERIODICALLY ADJUSTED TO ASSURE WATERING EFFICIENCY AND CONSERVATION METHODS. IRRIGATION SHOULD NOT OCCUR BETWEEN THE HOURS OF 10 A.M. AND 6 P.M. IN ORDER TO REDUCE EVAPORATION. EXCESSIVE WATER RUN OFF IS NOT PERMITTED.
7. ALL SHRUB PLANTING BEDS SHALL HAVE 3/8" RED BREEZE MULCH, 3" DEPTH, OVER A SUITABLE WEED BARRIER FABRIC. NO WEED BARRIER FABRIC IN PERENNIAL AREAS. REF. SPECS.
8. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IN ALL LANDSCAPE AREAS.
9. CONTRACTOR SHALL ENSURE THAT THE LANDSCAPE PLAN IS COORDINATED WITH THE PLANS PREPARED BY OTHER CONSULTANTS SO THAT THE PROPOSED GRADING, STORM DRAINAGE, OR OTHER CONSTRUCTION DOES NOT CONFLICT WITH NOR PRECLUDE INSTALLATION AND MAINTENANCE OF LANDSCAPE ELEMENTS AS DESIGNATED ON THIS PLAN.
10. PERENNIALS SHOWN IN PLANT LEGEND SHALL BE SELECTED AND FIELD-LOCATED IN COORDINATION WITH LANDSCAPE ARCHITECT.

PLANT LEGEND

SYMBOL	QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE	NOTES	
DECIDUOUS SHADE TREES						
KCT	2	KENTUCKY COFFEE TREE	GYMNOCLADUS DIOICA	4" CAL.	B&B	
GSL	3	GREENSPIRE LINDEN	TILIA CORDATA 'GREENSPIRE'	4" CAL.	B&B	
LPT	21	LONDON PLANE TREE	PLATANUS X ACERIFOLIA	4" CAL.	B&B	
WH	3	WESTERN HACKBERRY	CELTIS OCCIDENTALIS	4" CAL.	B&B	
EVERGREEN TREES						
CBS-12	4	COLORADO BLUE SPRUCE	PICEA PUNGENS GLAUCA	12' HT.	B&B	
CBS-8	6	COLORADO BLUE SPRUCE	PICEA PUNGENS GLAUCA	8' HT.	B&B	
ORNAMENTAL TREES						
ERB	2	EASTERN REDBUD	CERCIS CANADENSIS	4" CAL.	B&B	
SSC	1	SPRING SNOW CRABAPPLE	MALUS 'SPRING SNOW'	4" CAL.	B&B	
TCH	8	THORNLESS COCKSPUR HAWTHORN	CRATAEGUS CRUS-GALLI INERMIS	4" CAL.	B&B	
WHT	5	WASHINGTON HAWTHORN	CRATAEGUS PHAENOPYRUM	4" CAL.	B&B	
EVERGREEN SHRUBS						
AJ	20	ANDORRA JUNIPER	JUNIPERUS HORIZONTALIS 'YOUNGSTOWN'	5 GAL.	SPACING AS SHOWN	
YU	12	YUCCA	YUCCA GLAUCA	5 GAL.	SPACING AS SHOWN	
DECIDUOUS SHRUBS						
CM	276	CREEPING MAHONIA	MAHONIA REPENS	5 GAL.	SPACING AS SHOWN	
DBB	19	DWARF BUTTERFLY BUSH	BUDDLEJA 'BLUE CHIP'	5 GAL.	SPACING AS SHOWN	
ERB-8	4	EASTERN REDBUD	CERCIS CANADENSIS	8' HT.	B&B; MULTI-TRUNK	
KDP	20	KATHERINE DYKES POTENTILLA	POTENTILLA FRUTICOSA 'K. DYKES'	5 GAL.	SPACING AS SHOWN	
PL	26	PURPLE LILAC	SYRINGA VULGARIS	5 GAL.	SPACING AS SHOWN	
RB	15	RABBITBRUSH	ERICAMERIA NAUSEOSA SPP.	5 GAL.	SPACING AS SHOWN	
RDR	40	RED DRIFT ROSE	ROSA MEIGALPIO	5 GAL.	SPACING AS SHOWN	
SR	15	SHRUB ROSE 'RAINBOW'	ROSA 'RAINBOW'	5 GAL.	SPACING AS SHOWN	
GROUNDCOVERS						
PM	238	PANCHITO MANZANITA	ARCTOSTAPHYLOS X COLORADENSIS 'PANCHITO'	5 GAL.	3' O.C.	
ORNAMENTAL GRASSES						
DFG	156	DWARF FOUNTAIN GRASS	PENNISETUM ALOPECUROIDES	5 GAL.	SPACING AS SHOWN	
FRG	148	FEATHER REED GRASS	CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER'	5 GAL.	SPACING AS SHOWN	
MFG	17	MEXICAN FEATHER GRASS	NASSELLA TENUISSIMA	5 GAL.	SPACING AS SHOWN	
PERENNIALS						
	300	VARIOUS PERENNIALS TO BE DETERMINED			1 GAL.	18" O.C.



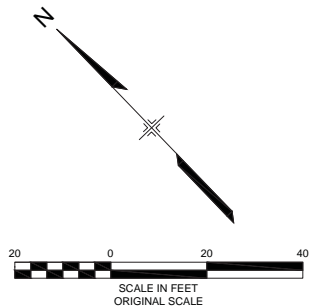
LEGEND

- PROJECT LIMIT
- PROPOSED 5' TREE GRATE W/CONCRETE BAND; REF. DETAIL 5, SHEET L104
- PROPOSED SHADE TREE
REF. PLANT LEGEND, THIS SHEET
- PROPOSED ORNAMENTAL TREE
REF. PLANT LEGEND, THIS SHEET
- PROPOSED EVERGREEN TREE
REF. PLANT LEGEND, THIS SHEET
- PROPOSED ORNAMENTAL GRASS
REF. PLANT LEGEND, THIS SHEET
- PROPOSED DECIDUOUS SHRUBS
REF. PLANT LEGEND, THIS SHEET
- PROPOSED GROUNDCOVER
REF. PLANT LEGEND, THIS SHEET

LIGHTING LEGEND

REF. SITE IMPROVEMENTS PLAN, SHEET L100

- PROPOSED IN-GROUND LIGHT FIXTURE
- PROPOSED SINGLE GLOBE PEDESTRIAN LIGHT
- PROPOSED CLUSTER GLOBE PEDESTRIAN LIGHT
- PROPOSED LIGHT BOLLARD
- EXISTING SHOEBOX STREET LIGHT
- EXISTING COBRA STREET LIGHT
- EXISTING LIGHT BOLLARD
- EXISTING IN-GROUND LIGHT FIXTURE
- EXISTING SINGLE GLOBE PEDESTRIAN LIGHT



No.	DATE	DESCRIPTION	BY
REVISIONS			
COMPUTER FILE MANAGEMENT			
FILE NAME: R:\17.481.009 (PURA HARP Gateway Park)\Dwg\Construction Plans\Landscap\104 - Gateway Park - LANDSCAPE PLAN.dwg			
CTB FILE: ---			
PLOT DATE: 6/14/2018 9:54 AM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

SEAL

EDA PROJECT NUMBER: 05-01-05793

HISTORIC ARKANSAS RIVERWALK OF PUEBLO GATEWAY PLAZA PROJECT

LANDSCAPE PLAN

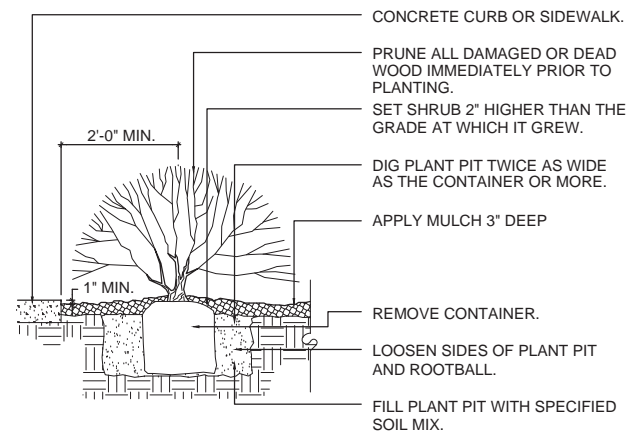
PREPARED BY: Matrix DESIGN GROUP

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 17.946.001

DESIGNED BY: RCE	SCALE: HORIZ 1" = 20'	DATE ISSUED: MAY 14, 2018	DRAWING No. L107
CHECKED BY: RCE	VERT. N/A	SHEET 22 OF 31	



Know what's below.
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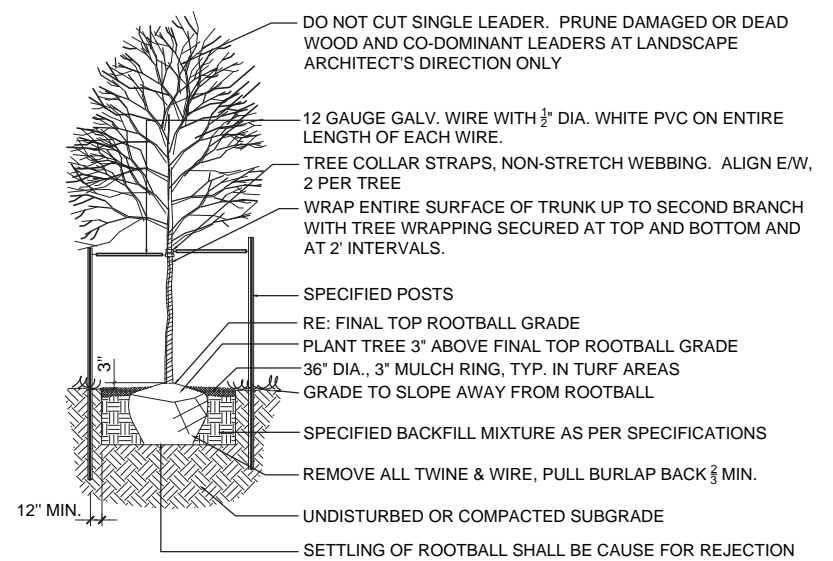


NOTE: ANY BROKEN OR CRUMBLING ROOTBALL WILL BE REJECTED. REMOVING THE CONTAINERS WILL NOT BE AN EXCUSE FOR DAMAGED ROOTBALLS.

NOTE: HOLD GRADE 1" BELOW EDGE OF WALK OR CURB. THIS DETAIL SHALL ALSO APPLY TO PERENNIAL FLOWERS IN CONTAINER.

NOTE: ALL JUNIPER PLANTS SHOULD BE PLANTED SO TOP OF ROOT MASS OCCURS AT FINISH GRADE OF MULCH LAYER.

1 SHRUB / ORNAMENTAL GRASS PLANTING
NTS



2 DECIDUOUS TREE PLANTING
NTS

REFERENCE DRAWINGS	No.	DATE	DESCRIPTION	BY
Planting Details Silva Cell X-481-TITLE-LANDSCAPE				
COMPUTER FILE MANAGEMENT				
FILE NAME: R:\17.481.009 (PURA HARP Gateway Park)\Dwg\Construction Plans\Landscapes\L108 - Gateway Park - LANDSCAPE DETAILS.dwg				
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PLOT DATE: 6/14/2018 9:55 AM				
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.				

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PREPARED BY:

SEAL

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 17.481.009

EDA PROJECT NUMBER: 05-01-05793			
HISTORIC ARKANSAS RIVERWALK OF PUEBLO GATEWAY PLAZA PROJECT			
LANDSCAPE DETAILS			
DESIGNED BY: RCF	SCALE: 1" = 20'	DATE ISSUED: MAY 14, 2018	DRAWING No.
DRAWN BY: TJR	HORIZ: 1" = 20'	SHEET 23 OF 31	L108
CHECKED BY: RCE	VERT: N/A		



Know what's below.
Call before you dig.

IRRIGATION CONSTRUCTION NOTES

- DRAWINGS AND BASE INFORMATION - ALL BASE AND PLANTING INFORMATION HAVE BEEN PROVIDED BY MATRIX DESIGN GROUP. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY HYDROSYSTEMS*KDI OF ANY DISCREPANCIES BETWEEN THE UTILITY OR PLANTING PLANS AND THE IRRIGATION PLAN. IF CONTRACTOR FAILS TO NOTIFY HYDROSYSTEMS*KDI AND MAKES CHANGES TO THE IRRIGATION SYSTEM DESIGN, HE ASSUMES ALL COSTS AND LIABILITIES ASSOCIATED WITH THOSE FIELD CHANGES. REFER TO SPECIFICATIONS FOR ADDITIONAL PROJECT REQUIREMENTS. CONTACT IRRIGATION CONSULTANT FOR CURRENT SPECIFICATIONS IF NOT PROVIDED.
- SYSTEM PRESSURE - HYDROSYSTEMS*KDI HAS CONTACTED THE LOCAL WATER DISTRICT THAT SERVES THIS SITE AND THEY HAVE BEEN TOLD THAT THE STATIC WATER PRESSURE IN THIS AREA SHOULD BE 75 PSI. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY PRESSURE PRIOR TO COMMENCING ANY CONSTRUCTION AND NOTIFY HYDROSYSTEMS*KDI OF ANY VARIANCE FROM THE STATED PRESSURE IMMEDIATELY. WRITTEN DOCUMENTATION OF PRESSURE TEST AND RESULTS SHALL BE PROVIDED TO HYDROSYSTEMS*KDI AT CONSTRUCTION ONSET. IF CONTRACTOR FAILS TO FIELD VERIFY PRESSURE AND/OR NOTIFY HYDROSYSTEMS*KDI OR ANY VARIATIONS FROM THIS PRESSURE, THEN HE ASSUMES ALL CONSTRUCTION AND ENGINEERING COSTS ASSOCIATED WITH SYSTEM MODIFICATIONS REQUIRED TO ACCOMMODATE ACTUAL SITE PRESSURE. REFER TO POINT OF CONNECTION & CONTROLLER DATA MATRIX BELOW FOR REQUIRED PRESSURE AT EACH LOCATION. THIS SYSTEM HAS BEEN DESIGNED FOR A REQUIRED STATIC PRESSURE OF 75 PSI MINIMUM.
- IRRIGATION SYSTEM OPERATION INTENT - THIS IRRIGATION SYSTEM HAS BEEN DESIGNED TO IRRIGATE THE ESTABLISHED LANDSCAPE WITHIN A THREE NIGHT PER WEEK, SIX HOUR PER NIGHT WATERING WINDOW. ESTABLISHMENT WATERING WILL REQUIRE UP TO TWICE AS MUCH IRRIGATION FOR A FOUR TO SIX WEEK PERIOD. THE DESIGN IS BASED ON THE FOLLOWING PROJECTED WEEKLY APPLICATION RATES AFTER ESTABLISHMENT. THESE FIGURES ARE BASED ON A 30-YEAR AVERAGE WEATHER DATA AND WILL NEED TO BE ADJUSTED DUE TO SEASONAL CHANGES AND WEATHER CONDITIONS ABOVE AND BELOW THE AVERAGE VALUES UTILIZED.

BLUEGRASS TURF	1.75" PER WEEK PEAK SEASON
ORNAMENTAL PLANTINGS	1.00" PER WEEK PEAK SEASON
- EQUIPMENT INSTALLATION - IT IS THE INTENT OF THIS DESIGN THAT ALL IRRIGATION EQUIPMENT BE INSTALLED WITHIN PROPERTY LIMITS AND WITHIN LANDSCAPED AREAS. ANY EQUIPMENT OTHER THAN VALVE BOXES OR SLEEVING THAT CONTAINS PIPE OR WIRES SHOWN OUTSIDE OF THESE LIMITS IS SHOWN IN THAT LOCATION FOR GRAPHICAL CLARITY ONLY. ALL VALVE BOXES SHALL BE INSTALLED A MINIMUM OF 2'-0" FROM EDGE OF ANY PAVED SURFACES UNLESS SPECIFICALLY INDICATED ON PLANS. BOXES INSTALLED IN OPEN TURF AREAS SHALL BE KEPT TO EDGES AND STAKED FOR REVIEW IF ALONG HIGH TRAFFIC AREAS. ALL VALVE BOXES SHALL BE PLACED A MINIMUM OF 3'-0" FROM THE CENTERLINE OF ANY DRAINAGE SWALE. ALL VALVE BOXES WITHIN PAVEMENT SHALL BE TIER 15 RATED BOXES FOR HEAVY DUTY NON-DELIBERATE TRAFFIC. BOX LID COLOR SHALL MATCH ADJACENT MATERIALS, I.E. GREEN IN TURF, TAN IN WOOD MULCH, GRAY IN STONE MULCH, PURPLE FOR RECLAIMED WATER SYSTEMS (IF REQUIRED). REFER TO LANDSCAPE PLANS FOR MATERIAL COLORS AND TYPES. ALL BOXES SHALL BE INSTALLED TO BE FLUSH WITH GRADE AND IN AN ORDERLY MANNER.
- MANUAL DRAIN VALVES - CONTRACTOR TO INSTALL ONE MANUAL DRAIN VALVE ON PRESSURE SUPPLY LINE DIRECTLY DOWNSTREAM OF BACKFLOW PREVENTER AND AT ALL LOW POINTS AND DEAD ENDS OF PRESSURE SUPPLY PIPING TO ENSURE COMPLETE DRAINAGE OF SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THESE LOCATIONS IN-FIELD AND INSTALLATION LOCATIONS SHALL BE NOTED ON AS-BUILTS.
- DRIP IRRIGATION - REFER TO IRRIGATION DETAIL SHEET FOR DRIP EMITTER QUANTITIES AND PLACEMENT.
- UNLABELED PIPING - ALL UNLABELED LATERAL PIPING SHALL BE 3/4" MINIMUM UNLESS OTHERWISE NOTED.
- SLEEVING - ALL SLEEVING UNDER PAVED SURFACES SHOWN ON PLANS IS BY CONTRACTOR UNLESS OTHERWISE NOTED. SLEEVING SHALL BE INSTALLED IN THE SIZES AND QUANTITIES SHOWN ON PLANS OR BASED ON THE SCHEDULE BELOW. WHERE SLEEVES ARE SHOWN, BUT NOT LABELED, FOLLOW THE SCHEDULE BELOW. ALL MAINLINE, CONTROL WIRES AND DRIP LINES UNDER PAVED SURFACES ARE TO BE INSTALLED IN SLEEVING. ALL MAINLINE SLEEVE LOCATIONS TO INCLUDE A SEPARATE WIRE SLEEVE.

SLEEVED PIPE SIZE/WIRE QUANTITY	REQUIRED SLEEVE SIZE & (QUANTITY)
3/4" - 1 1/4" PIPING	2" PVC (1)
1 1/2" - 2" PIPING	4" PVC (1)
2 1/2" - 3" PIPING	6" PVC (1)
1-25 CONTROL WIRES	2" PVC (1)
- SPARE CONTROL WIRES - CONTRACTOR SHALL EXTEND THREE SPARE WIRES (ONE COMMON AND 2 CONTROL WIRES) FROM EACH CONTROLLER TO THE END OF THE MAINLINE SERVING THAT CONTROLLER OR AS SHOWN ON THE PLANS. INSTALL SPARE WIRES IN 10" ROUND VALVE BOX WITH QUICK COUPLING VALVE. REFER TO SPECIFICATIONS FOR WIRE COLOR. SEE IRRIGATION SCHEDULE FOR ADDITIONAL INFORMATION.
- ADJUSTMENT - CONTRACTOR SHALL FINE TUNE/ADJUST THE IRRIGATION SYSTEM TO REDUCE/AVOID OVERSPRAY ONTO HARD SURFACES BY ADJUSTING NOZZLE DIRECTION AND NOZZLE RADIUS.
- PLANS AND SPECIFICATIONS - CONTRACTOR RESPONSIBLE TO ENSURE WORK CONFORMS TO PLANS AND SPECIFICATIONS. AT ONSET OF CONSTRUCTION, VERIFY PLANS ARE CURRENT. WHERE REQUIRED BY CITY OR TOWN, CONTRACTOR SHALL CONSTRUCT ONLY OFF CITY OR TOWN STAMPED PLANS. REVISIONS TO CITY OR TOWN STAMPED PLANS SHALL CONFORM TO CITY OR TOWN FIELD CHANGE PROCEDURES AND DOCUMENTATION.
- EXISTING IRRIGATION DAMAGE - CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING IRRIGATION SYSTEMS DAMAGED DURING NEW INSTALLATION. REPAIR OR REPLACEMENT SHALL BE DETERMINED BY OWNER OR OWNER'S REPRESENTATIVE AND PAID FOR BY THE LANDSCAPE CONTRACTOR.
- EXISTING IRRIGATION COORDINATION - EXISTING IRRIGATION SYSTEM SHALL NOT BE TURNED OFF FOR MORE THAN 24 HOURS MAXIMUM. CONTRACTOR SHALL COORDINATE TURN OFF OF SYSTEM WITH OWNER OR MAINTENANCE STAFF 72 HOURS PRIOR TO ANY NEW CONSTRUCTION.
- SIMULTANEOUS ZONE OPERATION - THIS IRRIGATION SYSTEM HAS BEEN DESIGNED TO OPERATE MULTIPLE ZONES SIMULTANEOUSLY BASED ON INDIVIDUAL ZONE FLOW. THE DESIGN IS INTENDED TO OPERATE MULTIPLE VALVES, UP TO THE MAXIMUM FLOW IN THE POINT OF CONNECTION NOTE. REFER TO CONTROLLER SPECIFICATION FOR MAXIMUM SIMULTANEOUS VALVE COUNT.
- WATER BUDGETS AND PROJECTIONS - HYDROSYSTEMS-KDI HAS BASED THE IRRIGATION DESIGN AND THE ASSOCIATED PROJECTED WATER USE UPON SUCH FACTORS AS CITY OR WATER DISTRICT IMPOSED REQUIREMENTS, PUBLISHED PLANT SPECIES WATER NEEDS, SELECTED IRRIGATION METHOD EFFICIENCIES AS REPORTED BY INDEPENDENT TESTING FACILITIES, HISTORICAL WEATHER DATA FOR THE PROJECT LOCATION, AND PROPER MAINTENANCE PROCEDURES. HYDROSYSTEMS*KDI IS NOT RESPONSIBLE, AND ACCEPTS NO RESPONSIBILITY, FOR THE ACTUAL WATER USAGE VARIATION THAT IS A RESULT OF FIELD MODIFICATIONS TO THE SYSTEM NOT MATCHING CONSTRUCTION DOCUMENTS, IMPROPER MAINTENANCE, WASTE DUE TO SYSTEM DAMAGE OR VANDALISM, OR WEATHER CONDITIONS THAT DEVIATE FROM PUBLISHED 30 YEAR HISTORICAL AVERAGES.
- CONTRACTOR SHALL SOD ALL MAINLINE TRENCHES, VALVE BOX AREAS, AND AREAS EXCEEDING 10 SF INSIDE AND OUTSIDE OF INDICATED WORK LIMITS UTILIZING FULL WIDTH ROLLS OF SOD. NEW SOD GRADE SHALL MATCH ADJACENT, UNDISTURBED GRADE. ROLL NEW SOD AS REQUIRED TO MESH EVENLY WITH EXISTING TURF. SOD CUT FOR MAINLINE INSTALLATION MAY BE REUSED TO SOD MAINLINE TRENCHES. CONTRACTOR WILL BE REQUIRED TO REPLACE REUSED SOD PER SPECIFICATIONS FOR NEW SOD. IF SOD IS CUT AND NOT REUSED FOR A PERIOD EXCEEDING 48 HOURS, IT MAY NOT BE REUSED. NO SODDING OR SEEDING SHALL OCCUR BETWEEN OCTOBER 1 AND APRIL 15 AND SHALL NOT OCCUR WITHOUT IRRIGATION SYSTEM BEING OPERATIONAL - UNLESS OTHERWISE NOTED ON PLANS.
- LATERAL TRENCHES AND DISTURBED AREAS LESS THAN 10 S.F. INSIDE & OUTSIDE SHALL BE RESEED WITH BLUEGRASS BLEND HAND-BROADCAST AND LIGHTLY RAKED INTO TRENCH SOIL. GRADES SHALL MATCH EXISTING, UNDISTURBED GRADES. CONTRACTOR SHALL BE RESPONSIBLE FOR SEED AND SOD ESTABLISHMENT. SOIL PREPARATION WILL NOT BE REQUIRED FOR MAINLINE AND LATERAL TRENCHES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EXISTING TURF LOCATED INSIDE AND OUTSIDE WORK LIMITS IN A VIABLE, GREEN, HEALTHY CONDITION UNTIL FINAL ACCEPTANCE OF PROJECT. THIS SHALL INCLUDE PROVIDING TEMPORARY WATERING OF TURF AS CONDITIONS REQUIRE. DEAD TURF AREAS EXCEEDING 10 S.F. DETERMINED BY OWNER'S REPRESENTATIVE AS HAVING DIED DUE TO LACK OF INTERIM MAINTENANCE BY CONTRACTOR SHALL BE REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER. ALL MOWING OPERATIONS DURING CONSTRUCTION WILL BE PROVIDED BY OWNER.

IRRIGATION SCHEDULE				
SYMBOL	MANUFACTURER	MODEL NO.	DESCRIPTION	DETAIL NO.
⊙ ^B	RAIN BIRD (OR EQUAL)	1402	BUBBLER	1
⊙	RAIN BIRD (OR EQUAL)	PEB-PRS-D	ELECTRIC CONTROL VALVE	2
▽	RAIN BIRD (OR EQUAL)	44-LRC	QUICK COUPLING VALVE	3
N/S	OLDCASTLE / CARSON (OR EQUAL)	REFER TO SPECIFICATIONS AND DETAILS	VALVE BOXES	VARIOUS
N/S	MATCO (OR EQUAL)	201X	MANUAL DRAIN VALVE	4
⋈		LINE SIZE - 2 1/2" AND SMALLER	GATE VALVE	5
-----		CLASS 200 BE - 2 1/2" & SMALLER	PVC MAINLINE	6
=====		CLASS 200 BE	PVC LATERAL	6
=====		CLASS 160	PVC SLEEVING	7
~ ~ ~ ~ ~	TORO (OR EQUAL)	BLUE STRIPE	POLY DRIP TUBING - 3/4" MIN. WIDTH	8, 9 & 10
⊕	RAIN BIRD (OR EQUAL)	XCZ-100-PRB-COM	DRIP VALVE ASSEMBLY	8
◀			DRIP LINE BLOW-OUT STUB	10
N/S	RAIN BIRD (OR EQUAL)	XERI-BUG	DRIP EMITTERS	9
⊙ ^A			WIRE SPLICE	11
-----			EXISTING MAINLINE	
CONTROLLER & STATION NO. CONTROL VALVE SIZE				
NUMBER OF SPARE WIRES - 2 CONTROL AND 1 SPARE WIRES TO WHICH CONTROLLER - SEE CONSTRUCTION NOTES				

DIRECTORY

- IRRIGATION NOTES IR100
- IRRIGATION SCHEDULE IR100
- IRRIGATION PLANS IR101 - IR102
- IRRIGATION DETAILS IR103 - IR104

HydroSystems-KDI, Inc. Irrigation Consulting
 860 Tabor Street, Suite 200
 Lakewood, Colorado 80401
 303-980-5327
 303-980-5384 (fax)

REFERENCE DRAWINGS X-479-PR-BASE - Gateway Park X-479-PR-LANDSCAPE-CD - Gateway Park X-946-EX-BASE-COMBINED X-946-EX-BASE-CHANNEL EXTENSION transfer Matrix X-PR-LIMIT-Gateway Park X-MAIN INTERSECTION X-946-PR-LITL X-946-PR-LIGHTS X-946-PR-BASE X-946-PR-BASE - PARKING GARAGE X-946-EX-LITL-COMBINED X-946-EX-LIGHTS 2999-HarpPh3-BlockIRR VAULT LOCATIONS X-461-TITLE-LANDSCAPE	No.	DATE	DESCRIPTION	BY	PREPARED BY: 	SEAL FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 17,946.001	EDA PROJECT NUMBER: 18-046 (ED1503, RTA1601)				
	REVISIONS						HISTORIC ARKANSAS RIVERWALK OF PUEBLO GATEWAY PLAZA PROJECT				
	COMPUTER FILE MANAGEMENT FILE NAME: T:\6300-6399 Jobs\6390-Gateway Plaza\6390-GP-IRR-CD.rev.dwg CTB FILE: ---- PLOT DATE: 5/31/2018 12:20 PM THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.						IRRIGATION NOTES				
					DESIGNED BY: AMC DRAWN BY: AMC CHECKED BY: JLK	SCALE HORIZ N/A VERT. N/A	DATE ISSUED: MAY 31, 2018 SHEET 24 OF 31	DRAWING No. IR100			



Know what's below.
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SEE SHEET IR102, MATCHLINE B

PROJECT LIMIT NOTES
 1. SURFACE IMPROVEMENTS IN THIS (PLAYGROUND) AREA ARE NOT PART OF THIS CONTRACT.
 2. SUB-SURFACE IMPROVEMENTS IN THIS (PLAYGROUND) AREA ARE PART OF THIS CONTRACT BUT ARE NOT FUNDED WITH EDA FUNDS.
 3. SURFACE AND SUB-SURFACE IMPROVEMENTS IN THIS (RICHMOND STREET) AREA ARE PART OF THIS CONTRACT BUT ARE NOT FUNDED WITH EDA FUNDS.

FOR IMPROVEMENTS IN THIS AREAS, REF. PROJECT LIMIT NOTES #1 & #2

IRRIGATION OF PLANTERS ON CENTRAL MAIN STREET SHALL BE COORDINATED WITH CONVENTION CENTER EXPANSION PROJECT. REPAIR OR REPLACE DAMAGE DONE TO EXISTING IRRIGATION DUE TO NEW CONSTRUCTION AT NO ADDITIONAL COST TO OWNER.

FOR IMPROVEMENTS IN THIS AREAS, REF. PROJECT LIMIT NOTES #3

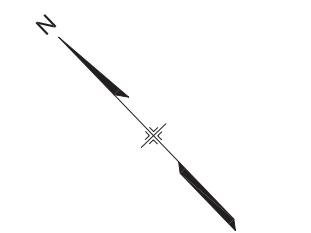
REMOVE EXISTING CONTROL VALVES AND SPRINKLER HEADS AND RETURN TO OWNER. ABANDON PVC PIPE AND CONTROL WIRES IN PLACE. COORDINATE WITH MAINTENANCE STAFF FOR ALL MAINLINE SHUT-DOWNS WITH A MINIMUM OF 72 HOURS NOTICE. SHUT-DOWN SHALL NOT EXCEED 24 HOURS. IRRIGATION OUTSIDE OF LIMIT OF WORK SHALL REMAIN OPERATIONAL. ANY DAMAGE DONE TO EXISTING IRRIGATION DUE TO NEW CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO OWNER.

SAME SHEET, MATCHLINE A

CONTRACTOR TO LOCATE EXISTING 2-1/2" IRRIGATION MAINLINE AND EXISTING CONTROL WIRES FROM EXISTING CONTROLLER "A" AT THIS APPROXIMATE LOCATION. CONNECT TO 2-1/2" MAINLINE. INSTALL ONE 2" GATE VALVE AND EXTEND NEW 2" PVC MAINLINE TO NEW VALVE LOCATIONS AS SHOWN. CONTRACTOR TO UTILIZE EXISTING CONTROL WIRES TO EXISTING IRRIGATION (TO BE REMOVED) AND EXTEND NEW CONTROL WIRES FROM EXISTING CONTROLLER TO SERVICE NEW CONTROL VALVES SHOWN. ALL WIRE SPLICES TO USE ONLY MANUFACTURER APPROVED WIRE CONNECTORS AND TO BE WITHIN 10" ROUND VALVE BOX.

WIRE TRENCH TO EXISTING CONTROLLER

SAME SHEET, MATCHLINE A



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DIRECTORY	
IRRIGATION NOTES	IR100
IRRIGATION SCHEDULE	IR100
IRRIGATION PLANS	IR101 - IR102
IRRIGATION DETAILS	IR103 - IR104

REFERENCE DRAWINGS	No.	DATE	DESCRIPTION REVISIONS	BY
X-479-PR-BASE - Gateway Park				
X-479-PR-LANDSCAPE-CD - Gateway Park				
X-946-EX-BASE-COMBINED				
X-946-EX-BASE-CHANNEL EXTENSION				
transfer Matrix				
X-PR-LIMIT-Gateway Park				
X-MAIN INTERSECTION				
X-946-PR-LITL				
X-946-PR-LIGHTS				
X-946-PR-BASE				
X-946-PR-BASE - PARKING GARAGE				
X-946-EX-LITL-COMBINED				
X-946-EX-LIGHTS				
2999-MapP13-BlockIRR				
VAULT LOCATIONS				
X-491-TITLE-LANDSCAPE				

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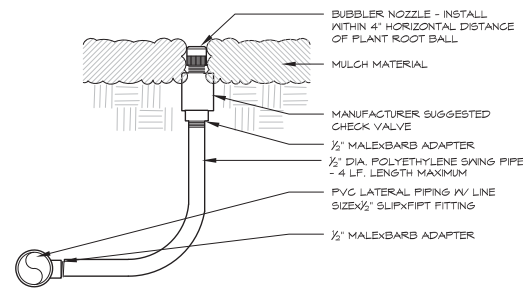
PREPARED BY:

SEAL
 FOR AND ON BEHALF OF
 MATRIX DESIGN GROUP, INC.
 PROJECT No. 17.946.001

EDA PROJECT NUMBER: 18-046 (ED1503, RTA1601)
 HISTORIC ARKANSAS RIVERWALK OF PUEBLO
 GATEWAY PLAZA PROJECT
IRRIGATION PLAN
 DESIGNED BY: AMC
 DRAWN BY: AMC
 CHECKED BY: JLK
 SCALE: HORIZ N/A
 DATE ISSUED: MAY 31, 2018
 SHEET: 25 OF 31
 DRAWING No. IR101



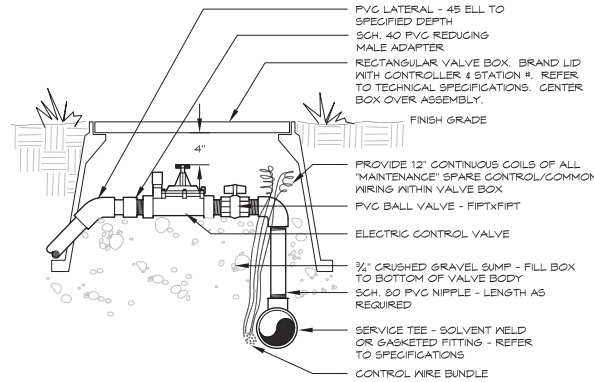
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NOTE:
• SET BUBBLER(S) ON UPHILL SIDE OF ROOT BALL WHERE TREES PLANTED ON SLOPES EQUAL TO OR GREATER THAN 4 TO 1.
• APPLY TEFLON TAPE TO ALL MIFT FITTINGS

BUBBLER

1

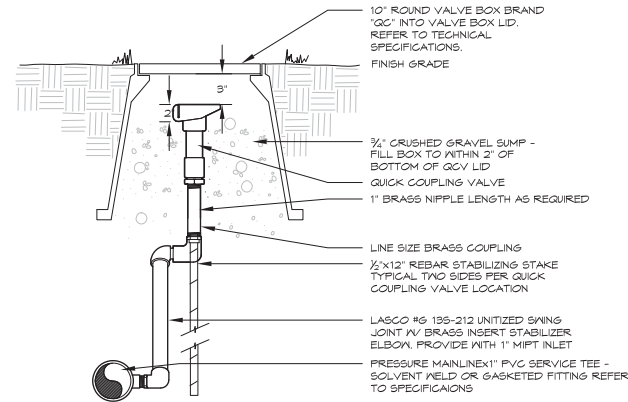


NOTE: DIAMETERS OF BALL VALVES, PVC FITTINGS AND NIPPLES SHALL EQUAL ELECTRIC CONTROL VALVE DIAMETER. VALVE BOXES SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO ADJACENT SIDEWALKS AND HARD SURFACES WHERE APPLICABLE. APPLY TEFLON TAPE TO ALL MALE THREADED FITTINGS AND THREADED NIPPLES.

ELECTRIC CONTROL VALVE

24V - PVC Lateral

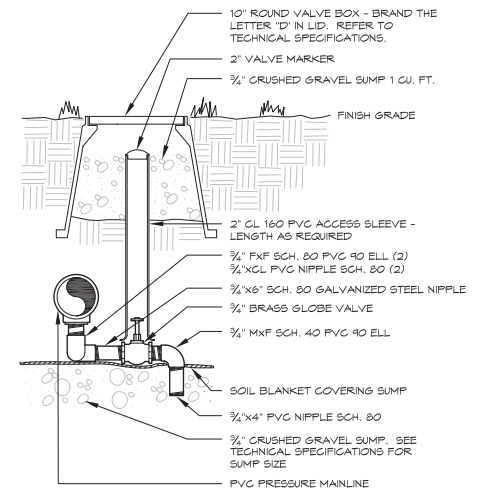
2



APPLY TEFLON TAPE TO ALL THREADED NIPPLES

QUICK COUPLING VALVE

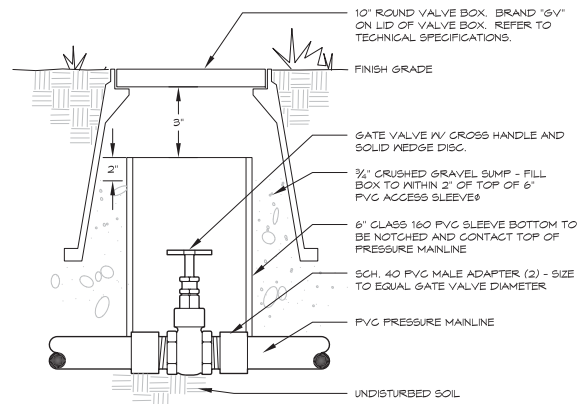
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APPLY TEFLON TAPE TO ALL MALE THREADED PVC FITTINGS AND ALL NIPPLES

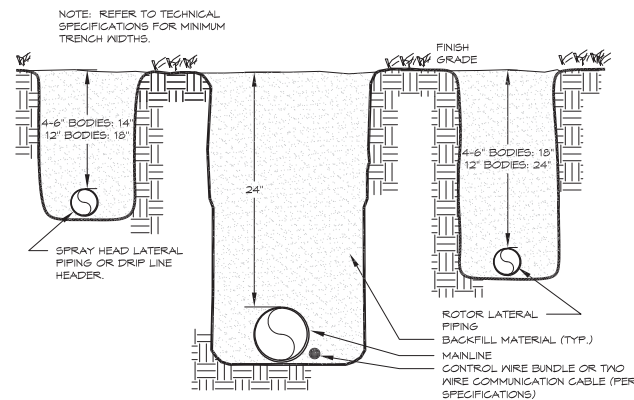
MANUAL DRAIN VALVE

4



GATE VALVE

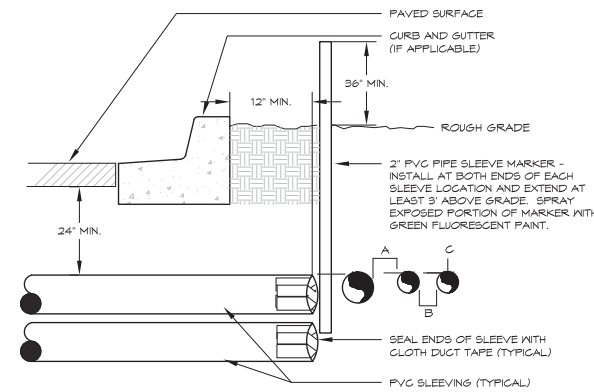
5



TRENCH

24" MAINLINE

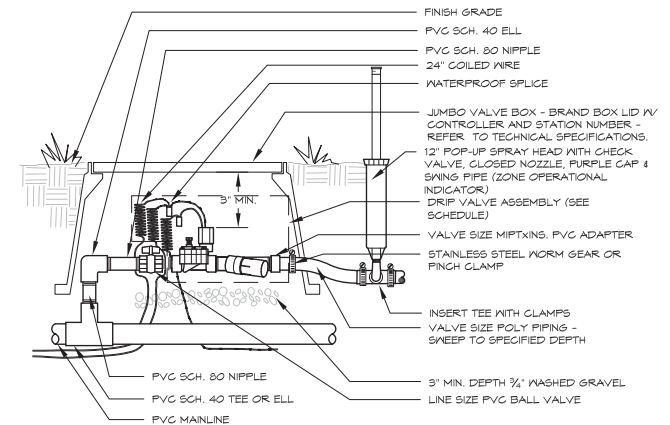
6



NOTE:
• ALL SLEEVE MATERIAL PER IRRIGATION SCHEDULE. SIZE AS NOTED ON PLAN.
• INSTALL SLEEVES IN SIDE-BY-SIDE CONFIGURATION WHERE MULTIPLE SLEEVES ARE TO BE INSTALLED. SPACE SLEEVES 4" TO 6" APART. DO NOT STACK SLEEVES VERTICALLY.
• CONTRACTOR TO COORDINATE WITH FLATWORK INSTALLER TO BRAND A "V" IN SIDEWALK OR CURB AT BOTH ENDS OF SLEEVE CROSSING.

IRRIGATION SLEEVING

7



NOTE:
INSTALL ASSEMBLY TO REST ON GRAVEL SUMP. CONTAIN ENTIRE ASSEMBLY WITHIN BOX. NO VALVE BOX EXTENSIONS WILL BE ACCEPTED. PROVIDE 3"-4" CLEARANCE BETWEEN TOP OF CONTROL VALVE SOLENOID AND BOTTOM OF VALVE BOX LID. TOP OF VALVE BOX TO BE FLUSH WITH FINISH GRADE. VALVE BOX SHALL NOT REST ON DRIP TUBING.

DRIP VALVE

24V - POLY LATERAL

8

DIRECTORY

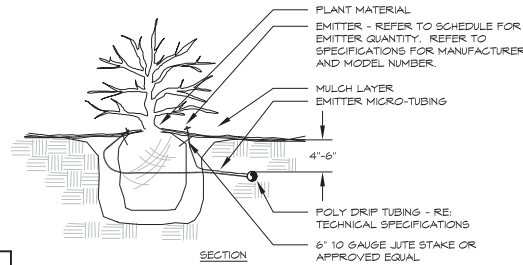
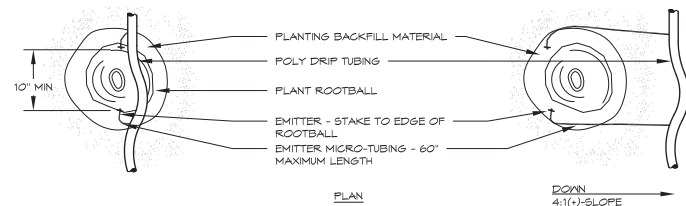
IRRIGATION NOTES	IR100
IRRIGATION SCHEDULE	IR100
IRRIGATION PLANS	IR101 - IR102
IRRIGATION DETAILS	IR103 - IR104

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303-980-5327
303-980-5384 (fax)

REFERENCE DRAWINGS X-479-FR-BASE - Gateway Park X-479-FR-LANDSCAPE-CD - Gateway Park X-946-EX-BASE-COMBINED X-946-EX-BASE-CHANNEL EXTENSION transfer-Matrix X-FR-LIMIT-Gateway Park X-MAIN INTERSECTION X-946-FR-LITL X-946-FR-LIGHTS X-946-FR-BASE X-946-FR-BASE - PARKING GARAGE X-946-EX-LITL-COMBINED X-946-EX-LIGHTS 2999-HarpPh3-BlockIRR VAULT LOCATIONS X-461-TITLE-LANDSCAPE	No.	DATE	DESCRIPTION	BY	PREPARED BY: 	SEAL EDA PROJECT NUMBER: 18-046 (ED1503, RTA1601) HISTORIC ARKANSAS RIVERWALK OF PUEBLO GATEWAY PLAZA PROJECT IRRIGATION DETAILS	DESIGNED BY: AMC DRAWN BY: AMC CHECKED BY: JLK	SCALE HORIZ N/A VERT. N/A	DATE ISSUED: MAY 31, 2018 SHEET 27 OF 31	DRAWING No. IR103	
	COMPUTER FILE MANAGEMENT										
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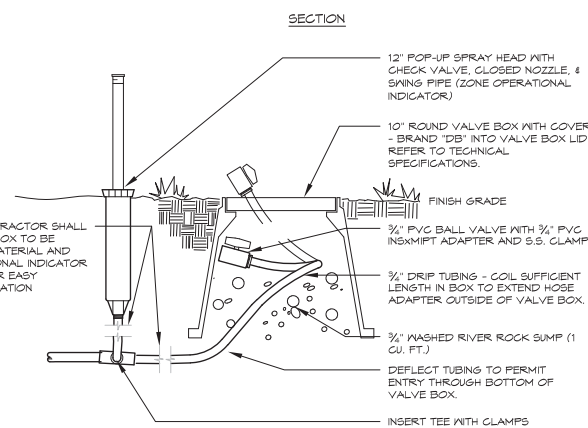
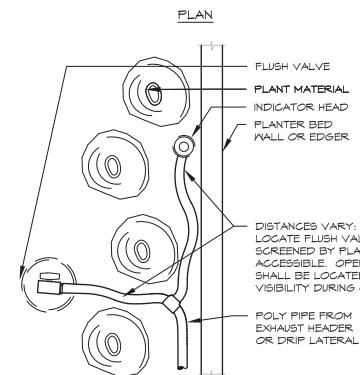


PLANT SIZE	EMITTER FLOW RATE	EMITTER QTY. AT MULCHED BED LOCATIONS	EMITTER QTY. AT NATIVE SEED LOCATIONS
1 - 2 GALLON MATERIAL	0.5 GPH	ONE EACH	ONE EACH
5 GALLON MATERIAL	0.5 GPH	TWO EACH	TWO EACH
1 1/2" CALIPER TREE	1.0 GPH	THREE EACH	FOUR EACH
2" CALIPER TREE	1.0 GPH	FOUR EACH	SIX EACH
2 1/2" CALIPER TREE	1.0 GPH	SIX EACH	EIGHT EACH
3" CALIPER TREE	1.0 GPH	EIGHT EACH	TEN EACH
3 1/2" CALIPER TREE	1.0 GPH	NINE EACH	ELEVEN EACH
4" CALIPER TREE	1.0 GPH	TEN EACH	TWELVE EACH
6 FT. CONIFEROUS TREE	1.0 GPH	FOUR EACH	SIX EACH
8 FT. CONIFEROUS TREE	1.0 GPH	SIX EACH	NINE EACH
10 FT. CONIFEROUS TREE	1.0 GPH	EIGHT EACH	TWELVE EACH
12 FT. CONIFEROUS TREE	1.0 GPH	TEN EACH	FOURTEEN EACH

- NOTES:
- INSTALL EMITTERS ON OPPOSING SIDES OF ROOTBALL. THREE OR MORE EMITTERS SHALL BE EQUALLY SPACED AROUND ROOT BALL.
 - EMITTERS ARE TO BE INSTALLED TO CLEAR SURFACE BY A MINIMUM OF 1" AND A MAXIMUM OF 2".
 - FLUSH ALL LINES THOROUGHLY, INCLUDING EMITTER MICRO-TUBING PRIOR TO EMITTER INSTALLATION.
 - IF PLANTING ON A 4:1 SLOPE OR STEEPER, INSTALL BOTH EMITTERS ON UPHILL SIDE OF ROOT BALL.
 - EMITTERS SHALL BE SELF-FLUSHING, PRESSURE COMPENSATING-TYPE UNLESS NOTED OTHERWISE WITHIN TECHNICAL SPECIFICATIONS.
 - DRIP VALVE ZONES ARE DESIGNED TO ACCOUNT FOR DIFFERENCES IN PLANT REQUIREMENTS (HYDROZONES) AND SUN EXPOSURE.
 - CONTRACTOR SHALL ENSURE HYDROZONES ARE VALVED SEPARATELY AS SHOWN ON PLAN.
 - SITE CONDITIONS MAY DICTATE THAT MULTIPLE SUN EXPOSURES ARE VALVED TOGETHER DURING THE DESIGN PROCESS. CONTRACTOR SHALL ADJUST EMITTER SCHEDULE AS FOLLOWS:
 - EMITTER QUANTITIES SHALL REMAIN THE SAME BUT EMITTER GALLONAGES SHALL BE DOUBLED FOR PLANTS WITH SOUTH AND WEST EXPOSURES.
 - EMITTER QUANTITIES AND GALLONAGE SHALL BE AS SHOWN IN SCHEDULE FOR PLANTS WITH NORTH AND EAST EXPOSURES.
 - PLANTINGS WITH NORTH AND EAST EXPOSURE SHALL DICTATE VALVE RUN-TIMES AND CONTRACTOR SHALL ADJUST SCHEDULING ACCORDINGLY.

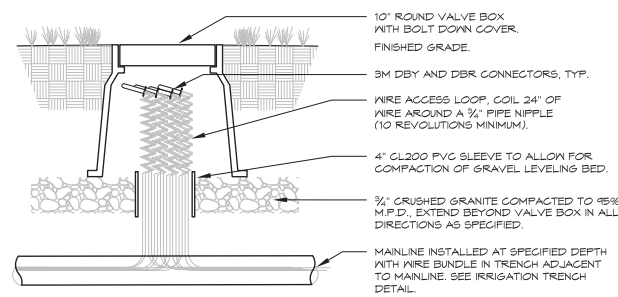
DRIP EMITTER
BELOW GRADE

9



DRIP FLUSH VALVE
WITH OPERATIONAL INDICATOR

10



- NOTE:
1. SET TOP OF BOX LEVEL WITH FINISHED GRADE IN TURF AREAS AND LEVEL WITH TOP OF MULCH IN SHRUB BEDS.
 2. USE STANDARD RECTANGULAR VALVE BOX WITH BOLT DOWN LID FOR SPLICES OF MORE THAN TWENTY (20) WIRES.

WIRE SPLICE BOX
TYPICAL

11

DIRECTORY

- IRRIGATION NOTES IR100
- IRRIGATION SCHEDULE IR100
- IRRIGATION PLANS IR101 - IR102
- IRRIGATION DETAILS IR103 - IR104

HydroSystems-KDI, Inc. Irrigation Consulting
860 Tabor Street, Suite 200
Lakewood, Colorado 80401
303-980-5327
303-980-5384 (fax)

REFERENCE DRAWINGS X-479-PR-BASE - Gateway Park X-479-PR-LANDSCAPE-CD - Gateway Park X-946-EX-BASE-COMBINED X-946-EX-BASE-CHANNEL EXTENSION transfer-Matrix X-PR-LIMIT-Gateway Park X-MAIN INTERSECTION X-946-PR-LITL X-946-PR-LIGHTS X-946-PR-BASE X-946-PR-BASE - PARKING GARAGE X-946-EX-LITL-COMBINED X-946-EX-LIGHTS 2999-HarpPh3-BlockIRR VAULT LOCATIONS X-461-TITLE-LANDSCAPE	No.	DATE	DESCRIPTION	BY	PREPARED BY: 	SEAL FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 17,946.001	EDA PROJECT NUMBER: 18-046 (ED1503, RTA1601)			
	COMPUTER FILE MANAGEMENT FILE NAME: T:\6300-6399 Jobs\6390-Gateway Plaza\6390-GP-IRR-CD-rev.dwg CTB FILE: ---- PLOT DATE: 5/31/2018 12:20 PM THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.						HISTORIC ARKANSAS RIVERWALK OF PUEBLO GATEWAY PLAZA PROJECT			
							IRRIGATION DETAILS			
							DESIGNED BY: AMC DRAWN BY: AMC CHECKED BY: JLK	SCALE HORIZ N/A VERT. N/A	DATE ISSUED: MAY 31, 2018 SHEET 28 OF 31	DRAWING No. IR104



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TRAFFIC SIGNAL GENERAL NOTES

- MAST ARM LENGTHS ARE TO ALLOW ALL SIGNAL HEADS TO BE CENTERED OVER THE LANES. SIGNAL POLE AND PEDESTAL CAISSON LOCATIONS SHALL BE STAKED IN THE FIELD AND FIELD VERIFIED BY PROJECT ENGINEER PRIOR TO SETTING THE FOUNDATIONS/CAISSONS. ALL CAISSONS SHALL BE CAST IN PLACE.
- ALL VEHICLE AND PEDESTRIAN INDICATIONS SHALL BE APPROVED SOLID STATE LED TYPE. ALL VEHICLE AND PEDESTRIAN HEAD HOUSINGS SHALL BE BLACK IN COLOR.
- ALL SIGNAL POLES, MAST ARMS, TRAFFIC SIGNAL PEDESTAL POLES, AND PEDESTRIAN PUSH BUTTON POST ASSEMBLIES SHALL BE GALVANIZED AND THEN POWDER COATED FEDERAL STANDARD COLOR 37040 (BLACK).
- TRAFFIC SIGNALS THAT ARE MOUNTED ON MAST ARMS SHALL BE FURNISHED WITH MOUNTING BRACKETS AND BLACK LOUVERED BACKING PLATES. ALL BLACK PLATES SHALL INCLUDE A ONE-INCH YELLOW RETROREFLECTIVE BORDER.
- SIGNAL HEADS SHALL BE BAGGED WITH A HEAVY BLACK PLASTIC UNTIL READY FOR OPERATION.
- NO EXCAVATION SHALL BE PERMITTED UNTIL UNDERGROUND UTILITIES HAVE BEEN LOCATED TO THE SATISFACTION OF ALL PARTIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL AERIAL AND UNDERGROUND UTILITIES DURING CONSTRUCTION. FOR LOCATION OF CDOT UTILITIES, CONTACT 719-385-7621.
- PULL BOX LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS SHALL BE VERIFIED IN THE FIELD BY THE ENGINEER. ALL PULL BOXES SHALL BE FLUSH WITH THE FINISHED GROUND SURFACE AS TO FOLLOW THE INSTALLATION SET FORTH BY THE COLORADO DEPARTMENT OF TRANSPORTATION STANDARD PLANS, M AND S STANDARDS, JULY 2012. ALL PULL BOXES SHALL NOT BE LOCATED WITHIN A HANDICAP RAMP.
- ALL TOPS OF CAISSONS SHALL BE FLUSH FINISHED AND LEVELED TO THE CROWN OF THE EXISTING ROADWAY SURFACE OR NO MORE THAN 4" ABOVE THE SURROUNDING SUBGRADE OR MEDIAN COVER, WHICHEVER IS THE LESSER.
- ALL CONDUIT SHALL HAVE A PULL ROPE LEFT IN THEM WHEN CONSTRUCTION IS COMPLETED. ALL CONDUIT UNDER THE ROADWAY SHALL BE DIRECTIONALLY BORED A MINIMUM OF 3' BELOW EXISTING PAVEMENT. ALL CONDUIT AND FITTINGS SHALL BE SCHEDULE 80 PVC. ALL CONDUIT SHALL BE SEALED WITH DUCT SEAL PUTTY.
- ALL CONDUIT RUNS WITH MULTIPLE CONDUITS SHALL BE INSTALLED IN ONE COMMON BORE.
- PERMANENT PULL BOXES SHALL BE MANUFACTURED ON POLYMER CONCRETE AND BE RATED FOR VEHICLE TRAFFIC. NOMINAL PULL BOX SIZES ARE:
SMALL - TYPE THREE (AT SIGNAL POLE)
LARGE - TYPE FOUR (AT CONTROLLER CABINET)
- CONTRACTOR'S SIGNAL ELECTRICIAN IS REQUIRED TO BE ONSITE, AT A MINIMUM, DURING AM & PM PEAK HOURS FOLLOWING THE NEXT DAY A SIGNAL IS TURNED ON TO OBSERVE OPERATION AND MAKE ADJUSTMENTS AS NEEDED. SIGNAL ELECTRICIAN'S ADDITIONAL HOURS MAY BE REQUIRED BY THE ENGINEER. THIS APPLIES TO BOTH PERMANENT AND TEMPORARY INSTALLATIONS. TIME FOR SIGNAL ELECTRICIAN SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT SHALL BE INCIDENTAL TO THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL ELECTRIC UTILITY TO PROVIDE POWER (METERED ELECTRICAL SERVICE) TO THE SIGNAL SYSTEM. 50amp, 120 volt FEEDER CIRCUIT.
- THE CONTRACTOR SHALL PROVIDE CITY OF PUEBLO WITH FOUR (4) SETS OF EQUIPMENT SPECIFICATIONS/DESCRIPTIONS, SHOP DRAWINGS AND OBTAIN APPROVALS PRIOR TO ORDERING THE EQUIPMENT AND COMMENCEMENT OF WORK FOR VERIFICATION OF CORRECTNESS AND COMPLETENESS.
- ALL MANUALS, INSTALLATION GUIDES AND ASSOCIATED EQUIPMENT SHALL BE PROVIDED TO THE ENGINEER AT TIME OF INSPECTION.
- LOCATIONS OF THE TRAFFIC SIGNAL POLES AND PEDESTAL POLE FOUNDATIONS/CAISSONS SHALL BE ADJUSTED BY THE ENGINEER IF NECESSARY.
- UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL SUPPLY CITY OF PUEBLO WITH 2 SETS OF RECORD DRAWINGS, CORRECTED PLANS, AND ANY OTHER ADDITIONAL DATA REQUIRED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS/INSPECTIONS REQUIRED TO COMPLETE THE SCOPE OF WORK PRESENTED HEREIN. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL BY ENGINEER PRIOR TO COMMENCEMENT OF WORK.
- PRIOR TO SIGNALS BEING PUT IN FLASH OPERATIONS, THE CONTRACTOR WILL BE REQUIRED TO HAVE FINAL PAVEMENT MARKING AND STOP BARS INSTALLED.
- CONTRACTOR SHALL COMPLETE ALL WORK NECESSARY FOR OPERATION ON THE SYSTEM AND SHALL CONTACT CITY OF PUEBLO TO SCHEDULE A COMPLIANCE INSPECTION. UPON COMPLETION OF THE INSPECTION, FIELD OPERATIONS TESTING SHALL BEGIN. THE COMPLETE TRAFFIC SYSTEM SHALL BE FULLY OPERATIONAL, AND FULLY TESTED, AND APPROPRIATE ROADWAY MARKINGS SHALL BE IN PLACE, PRIOR TO THE SIGNAL BEING TURNED ON. THIS TIME SHALL TYPICALLY BE TUESDAY, WEDNESDAY OR THURSDAY DURING OFF-PEAK TRAFFIC PERIOD.
- TRAFFIC CONTROLLER CABINET SHALL BE MODEL 336 (1 EA.) WITH 44-CONTACT INPUT FILE AND BATTERY BACKUP. LOAD SWITCHES SHALL BE INPUT AND OUTPUT INDICATING. UPS SHALL BE PROVIDED TO RUN THE SIGNAL FOR 1 HOUR IN ALL PHASES AND FLASH UP TO 2 ADDITIONAL HOURS. A CLARY SP 1000 OR EQUIVALENT SHALL BE USED.
- MAST ARM LENGTHS UP TO 55' M&S STANDARD S614-40A SHALL BE USED. FOR MAST ARM LENGTHS GREATER THAN 55' IN LENGTH M&S STANDARD S614-40 SHALL BE USED.
- UNDERGROUND FEEDER CABLE SHALL BE THHN OR THWM IMSA CABLE FROM THE HAND HOLE THROUGHOUT THE SIGNAL POLE (19-1 14gs OR BETTER).

TRAFFIC SIGNAL NOTES - CITY OF PUEBLO

(THE FOLLOWING NOTES ARE APPLICABLE TO ALL SIGNALS. THESE NOTES ARE SUPPLEMENTAL TO THE TRAFFIC SIGNAL GENERAL NOTES.)

- REMOVED SIGN PANELS SHALL BE SALVAGED AND RETURNED TO THE CITY OF PUEBLO.
- ALL CONDUIT SHALL BE SEAMLESS. ALL CONDUITS SHALL HAVE PULL ROPE AND 14 AWG TRACE WIRE LEFT IN THEM WHEN CONSTRUCTION IS COMPLETED AND END HOLES SEALED TO PREVENT MOISTURE, DEBRIS, AND ANIMALS FROM GETTING INTO THEM.
- ALL CONDUITS SHALL BE COLOR-CODED AND PERMANENTLY TAGGED PER THE FOLLOWING SCHEDULE:

DIRECTIONAL/MOVEMENT	TAPE COLOR	TAG LABEL
EASTBOUND	ORANGE	PH 2 - EB
EASTBOUND LEFT TURN	ORANGE	PH 5 - EBLT
WESTBOUND	BROWN	PH 6 - WB
WESTBOUND LEFT TURN	BROWN	PH 1 - WBLT
NORTHBOUND	BLUE	PH 8 - SB
NORTHBOUND LEFT TURN	BLUE	PH 3 - SBLT
SOUTHBOUND	RED	PH 4 - NB
SOUTHBOUND LEFT TURN	RED	PH 7 - NBLT
- ALL SIGNAL CABLE IS CONTINUOUS FROM CONNECTIONS MADE IN THE HAND HOLE COMPARTMENT OF SIGNAL POLE TO THE TERMINAL COMPARTMENT IN THE CONTROLLER CABINET. ALL SPLICING OF CONDUCTORS SHALL BE DONE IN HAND HOLES OF THE SIGNAL POLE. NO ELECTRIC SPLICES WILL BE ALLOWED UNDERGROUND OR IN PULL BOXES.
- TRAFFIC SIGNAL POLES, PEDESTAL POLES, AND PUSH BUTTON EXTENDERS SHALL BE GALVANIZED THEN POWDER-COATED BLACK.
- CONTRACTOR SHALL CONTACT CITY OF PUEBLO TO COMPLETE COMPLIANCE PRIOR TO OPERATION. UPON COMPLETION OF THE INSPECTION, FIELD OPERATION TESTING SHALL BEGIN. PLEASE SEE NOTE #13 FOR CONTACT INFORMATION.
- ALL AUDIBLE PEDESTRIAN PUSH BUTTON SHALL BE DELIVERED TO CITY OF PUEBLO FOR PROGRAMMING AT LEAST 2 WEEKS PRIOR TO INSTALLATION. PLEASE SEE NOTE #13 FOR CONTACT INFORMATION..
- DETECTION SHALL BE OPERATIONAL PRIOR TO TURNING ON THE NEW SIGNAL. COORDINATE THE SETUP OF DETECTION ZONES AND RADIO PROGRAMMING WITH CITY OF PUEBLO. PLEASE SEE NOTE #13 FOR CONTACT INFORMATION.
- SIGNAL CABINET SHALL BE DELIVERED TO CITY OF PUEBLO AT LEAST TWO WEEKS PRIOR TO INSTALLATION FOR TESTING OR THE CONTRACTOR SHALL PROVIDE PROOF OF A 7 DAY RUN TIME OF CABINET PRIOR TO INSTALLATION. IF CONTRACTOR CHOOSES TO TEST CABINET, CONTACT CITY OF PUEBLO 1 WEEK PRIOR TO TEST PERIOD FOR THE TRAFFIC SIGNAL CONTROLLER.
- ONE 336 TRAFFIC CONTROLLER CABINET SHALL BE FURNISHED AND INSTALLED. SEE TRAFFIC TABULATIONS FOR LOCATIONS.
- CONTACT PERSON:
JASON ARNDT, TRAFFIC MAINTENANCE SUPERVISOR
OFFICE - 719-553-2300
CELL - 719-320-2463
- CONTRACTOR SHALL FURNISH AND INSTALL A CABINET BASE, QUAZITE, FIBERLYTE OR APPROVED EQUAL, 24" IN HEIGHT AND SIZED TO FIT A 336 CABINET. CABINET BASE SHALL BE INSTALLED WITH 12" EXPOSED ABOVE FINISHED GRADE. CONTRACTOR SHALL PROVIDE MINIMUM OF 3' x 3' ADJACENT TO EACH DOOR OF THE CABINET (SIDEWALK MAY SUFFICE AS CONCRETE PAD). CONCRETE PAD INCLUDED IN COST OF CONSTRUCTING CABINET BASE.
- CONTRACTOR SHALL PROVIDE AN UNMETERED FEED TO STREETLIGHTS AND A METERED FEED TO THE TRAFFIC SIGNAL CONTROLLER - WIRING PER BLACK HILLS ENERGY SPECIFICATIONS.
- INSTALLATION SHALL INCLUDE ADA PEDESTRIAN PUSH BUTTONS. ALL PEDESTRIAN PUSH BUTTON SIGNS SHALL CONFORM TO MUTCD OR R10-3e. PEDESTRIAN PUSH BUTTON SIGNS SHALL BE PANEL TYPE. BUTTON SIGNS SHALL BE INCIDENTAL TO THE PUSH BUTTON. MINIMUM REACH TO THE BUTTON SHALL BE 10".

REFERENCE DRAWINGS X-481-TITLE-LANDSCAPE X-946-PR-BASE X-946-EX-BASE-COMBINED X-479-PR-BASE - Gateway Park X-946-EX-UTIL-COMBINED X-946-PR-UTIL X-MAIN INTERSECTION X-946-PR-BASE - PARKING GARAGE X-946-PR-LIGHTS X-946-PR-LANDSCAPE X-946-EX-MAP-COMBINED	No.	DATE	DESCRIPTION	BY	PREPARED BY: 	SEAL	EDA PROJECT NUMBER: 05-01-05793				
	COMPUTER FILE MANAGEMENT						HISTORIC ARKANSAS RIVERWALK OF PUEBLO GATEWAY PLAZA PROJECT				
	FILE NAME: R:\17.481.009 (PURA HARP Gateway Park)\Dwg\Construction Plans\Traffic\HAWK signalization.dwg CTB FILE: --- PLOT DATE: 5/14/2018 12:39 PM THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.						TRAFFIC SIGNAL NOTES				
DESIGNED BY: SDB SCALE: DATE ISSUED: MAY 9, 2018 DRAWING No. DRAWN BY: MHH HORIZ 1" = 20' SHEET 29 OF 31 T100 CHECKED BY: RCE VERT. N/A											



Know what's below. Call before you dig.

TABULATION OF SIGNAL QUANTITIES

ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY
503-00018	DRILLED CAISSON (18 INCH)	LF	5
503-00036	DRILLED CAISSON (36 INCH)	LF	28
613-01200	(1) 2 INCH CONDUIT (PVC)	LF	231
613-01300	(1) 3 INCH CONDUIT (PVC)	LF	416
613-00502	PULL BOX (36" x 24" x 18")	EA	3
613-07034	SIGNAL CABINET BASE (ROCK FIBER)	EA	1
613-10000	WIRING	LS	1
613-80130	METER PEDESTAL	EA	1
614-01000	INSTALL TRAFFIC SIGNAL EQUIPMENT	LS	1
614-70150	PEDESTRIAN SIGNAL FACE (16) (COUNTDOWN)	EA	2
614-70336	TRAFFIC SIGNAL FACE (12-12-12)	EA	4
614-72855	TRAFFIC SIGNAL CONTROL CABINET	EA	1
614-72860	PEDESTRIAN PUSH BUTTON	EA	2
614-81125	SIGNAL LIGHT POLE STEEL (1-25 ft)	EA	1
614-81130	SIGNAL LIGHT POLE STEEL (1-30 ft)	EA	1
614-84000	TRAFFIC SIGNAL PEDESTRIAN POLE STEEL	EA	1
614-86246	CONTROLLER (TY170E-HCII)	EA	1
614-86800	UPS	EA	1
627-30210	THERMOPLASTIC PAVEMENT MARKING	SF	132

SIGNAL POLE SCHEDULE

POLE NUMBER	A		B	
	NW CORNER	NE CORNER	NW CORNER	NE CORNER
NORTHING	1583729.62	1583691.83		
EASTING	3255707.48	3255763.75		
CAISSON ELEV.	4660.408	4660.158		
MAST ARM WIRE LENGTH	25'	30'		
BASE DIA.	36"	14"	36"	14"
DEPTH				

Pole: VISCO V1-A14/36-1FT/21-V318/250HPS/TYPE III/21 BOS - 1 MA

PEDESTRIAN POLE SCHEDULE

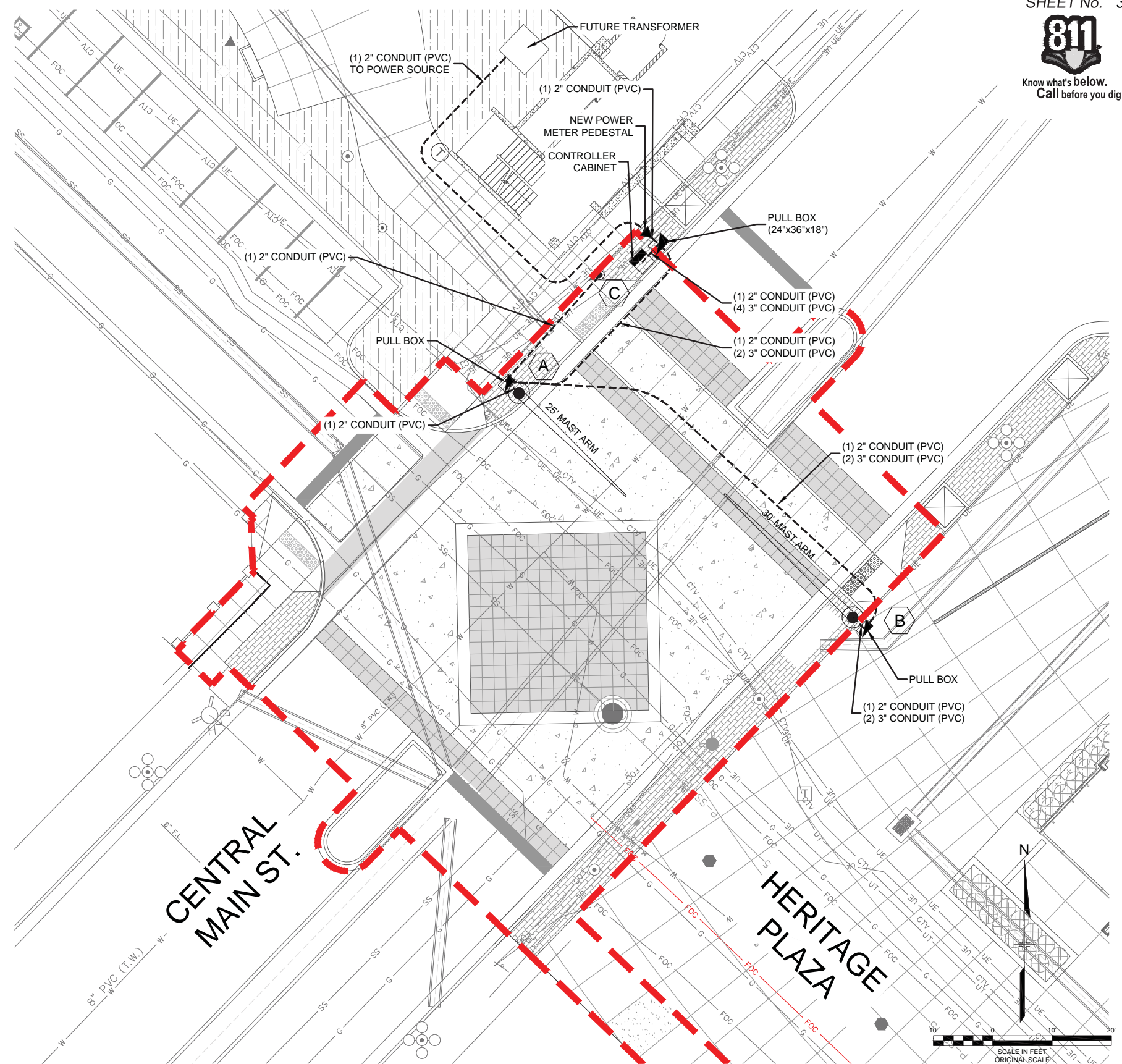
POLE NUMBER	C	
	NW CORNER	NE CORNER
NORTHING	1583749.53	
EASTING	3255721.08	
CAISSON ELEV.	4660.605	
POLE HEIGHT	10'	
BASE DIA.	18"	5"
DEPTH		

Pedestrian Pole: W.J. Whatley Inc. (or approved equal)
400 Series Post - black, fluted and tapered
Base: Model 409 Yorktown (or approved equal), black (16.5" w x 20") Installed with anchor base

NOTE: CONTRACTOR TO VERIFY ALL ELEVATIONS PRIOR TO CONSTRUCTION.

SIGNAL EQUIPMENT LEGEND

PEDESTRIAN SIGNAL HEAD		POWER METER PEDESTAL	
TRAFFIC SIGNAL HEAD W/ BACKPLATE		CONTROLLER CABINET	
TRAFFIC SIGNAL HEAD W/O BACKPLATE		PEDESTRIAN PUSH BUTTON AND SIGN	
LUMINAIRE		DETECTOR CAMERA ON 6' EXTENSION	
PED PUSH BUTTON POLE		YAGI ANTENNA	
SIGNAL POLE		TRAFFIC SIGN	
PULL BOX		ILLUMINATED STREET NAME SIGN	
PROPOSED SIGNAL CONDUIT		POWER SOURCE	



REFERENCE DRAWINGS	No.	DATE	DESCRIPTION	BY
X-481-TITLE-LANDSCAPE				
X-946-PR-BASE				
X-946-EX-BASE-COMBINED				
X-479-PR-BASE - Gateway Park				
X-946-EX-UTIL-COMBINED				
X-946-PR-UTIL				
X-946-PR-UTIL - PARKING GARAGE				
X-946-PR-LIGHTS				
X-946-PR-LANDSCAPE				
X-946-EX-MAP-COMBINED				
PURA HARP Gateway Park				
X-PR-LIMIT-Gateway Park				

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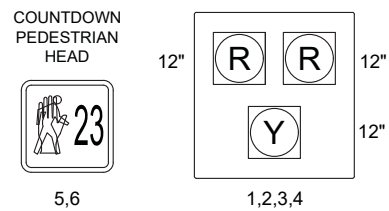


EDA PROJECT NUMBER: 05-01-05793	
HISTORIC ARKANSAS RIVERWALK OF PUEBLO GATEWAY PLAZA PROJECT	
TRAFFIC SIGNAL PLAN	
DESIGNED BY: SDB	SCALE: HORIZ 1" = 20'
DRAWN BY: MHJ	DATE ISSUED: MAY 31, 2018
CHECKED BY: SDB	SHEET: 30 OF 31
PROJECT No. 17.946.001	DRAWING No. T101



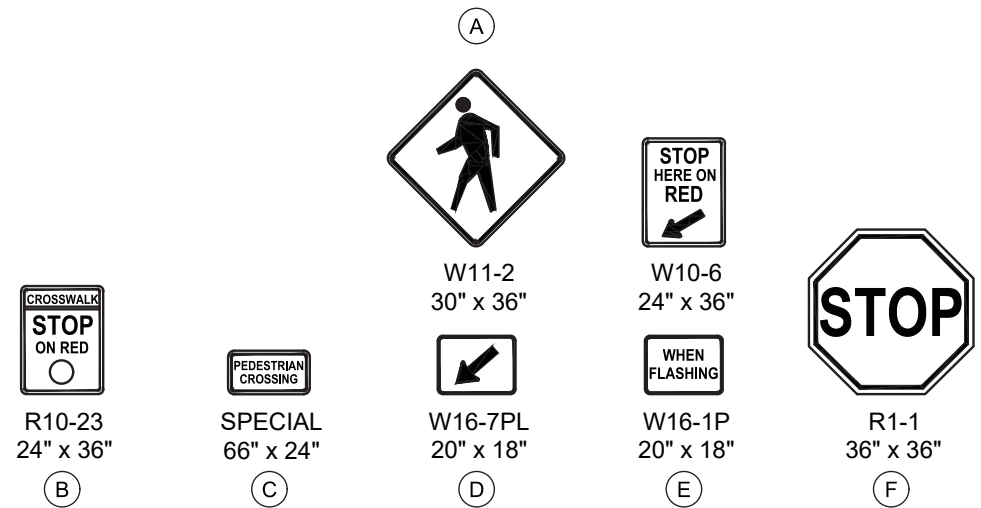
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PROPOSED SIGNAL HEADS

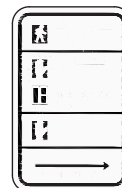


ILLUMINATED STREET SIGNS

Central Main Street



PROPOSED PEDESTRIAN SIGN

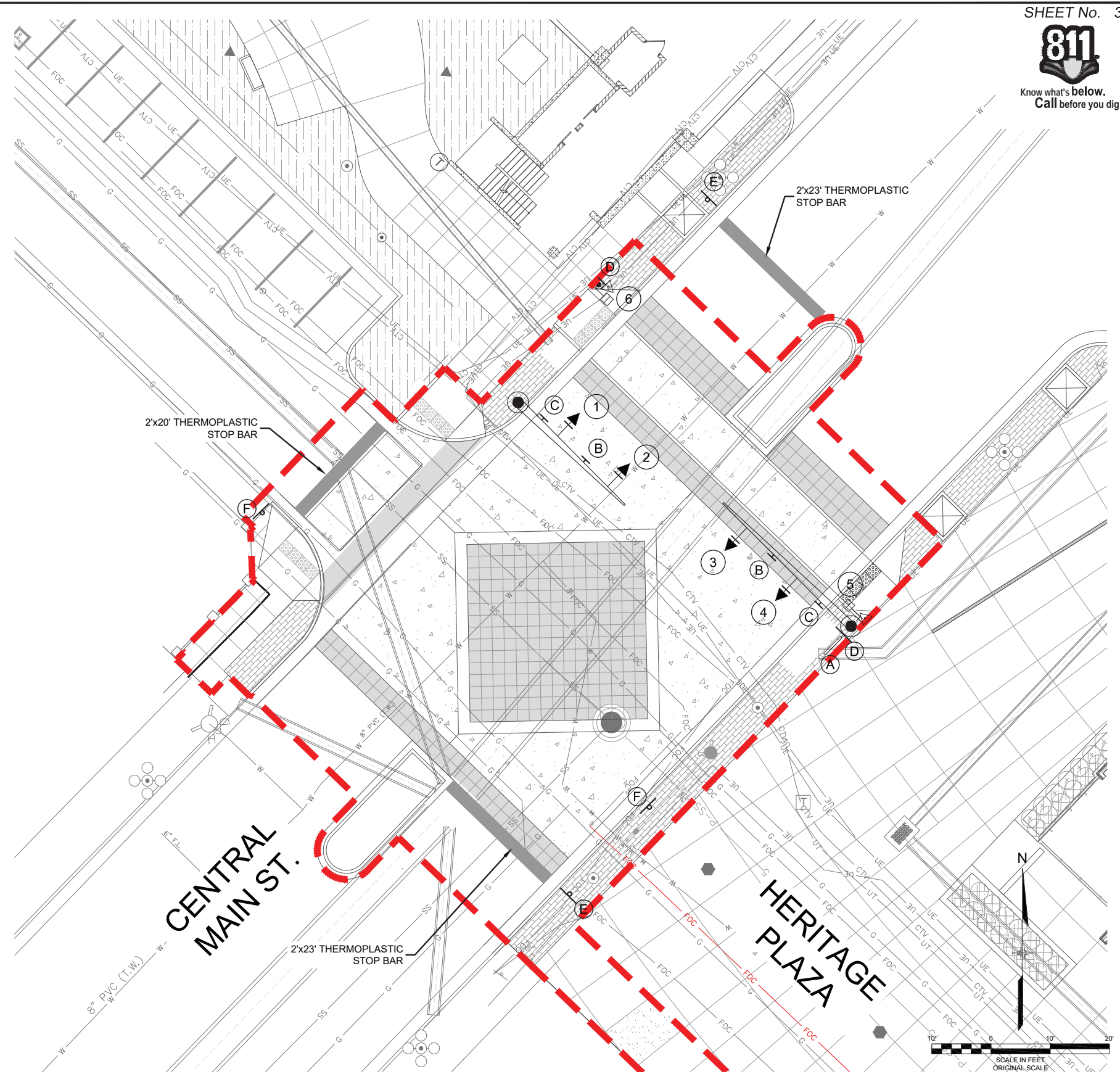


EACH PEDESTRIAN PUSH BUTTON SHALL BE ACCOMPANIED BY A 9" x 15" R10-3E PEDESTRIAN SIGN. THIS SIGN SHALL BE INCLUDED IN THE PEDESTRIAN PUSH BUTTON PAY ITEM

R10-3E
9" x 15"

SIGNAL EQUIPMENT LEGEND

PEDESTRIAN SIGNAL HEAD		POWER METER PEDESTAL	
TRAFFIC SIGNAL HEAD W/ BACKPLATE		CONTROLLER CABINET	
TRAFFIC SIGNAL HEAD W/O BACKPLATE		PEDESTRIAN PUSH BUTTON AND SIGN	
LUMINAIRE		DETECTOR CAMERA ON 6' EXTENSION	
PED PUSH BUTTON POLE		YAGI ANTENNA	
SIGNAL POLE		TRAFFIC SIGN	
PULL BOX		ILLUMINATED STREET NAME SIGN	
PROPOSED SIGNAL CONDUIT		POWER SOURCE	



REFERENCE DRAWINGS	No.	DATE	DESCRIPTION	BY
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X-479-PR-BASE - Gateway Park				
X-946-EX-UTIL-COMBINED				
X-946-EX-UTIL				
X-MAIN INTERSECTION				
X-946-PR-BASE - PARKING GARAGE				
X-946-PR-LIGHTS				
X-946-PR-LANDSCAPE				
X-946-EX-MAP-COMBINED				
PURA HARP Gateway Park				
X-PR-LIMIT-Gateway Park				

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EDA PROJECT NUMBER: 05-01-05793

HISTORIC ARKANSAS RIVERWALK OF PUEBLO GATEWAY PLAZA PROJECT

TRAFFIC SIGNING PLAN

PREPARED BY: Matrix DESIGN GROUP

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 17.946.001

DESIGNED BY: SDB	SCALE: HORIZ 1" = 20'	DATE ISSUED: MAY 30, 2018	DRAWING No. T102
CHECKED BY: SDB	VERT. N/A	SHEET 31 OF 31	