

CITY OF SANTA FE CONSTRUCTION PLANS

SANTA FE RIVER IMPROVEMENTS PROJECT

CIP NO: 412A

CITY OF SANTA FE



ROADWAY AND TRAILS ENGINEERING DIVISION

APPROVED BY CITY OF SANTA FE

Arnac Puro 1/19/16
PUBLIC WORKS DIRECTOR DATE

APPROVED BY CITY OF SANTA FE

[Signature] 1/19/16
ROADWAY AND TRAILS ENGINEERING DIVISION DIRECTOR DATE

REVIEWED BY CITY OF SANTA FE
MAYORS COMMITTEE ON DISABILITY

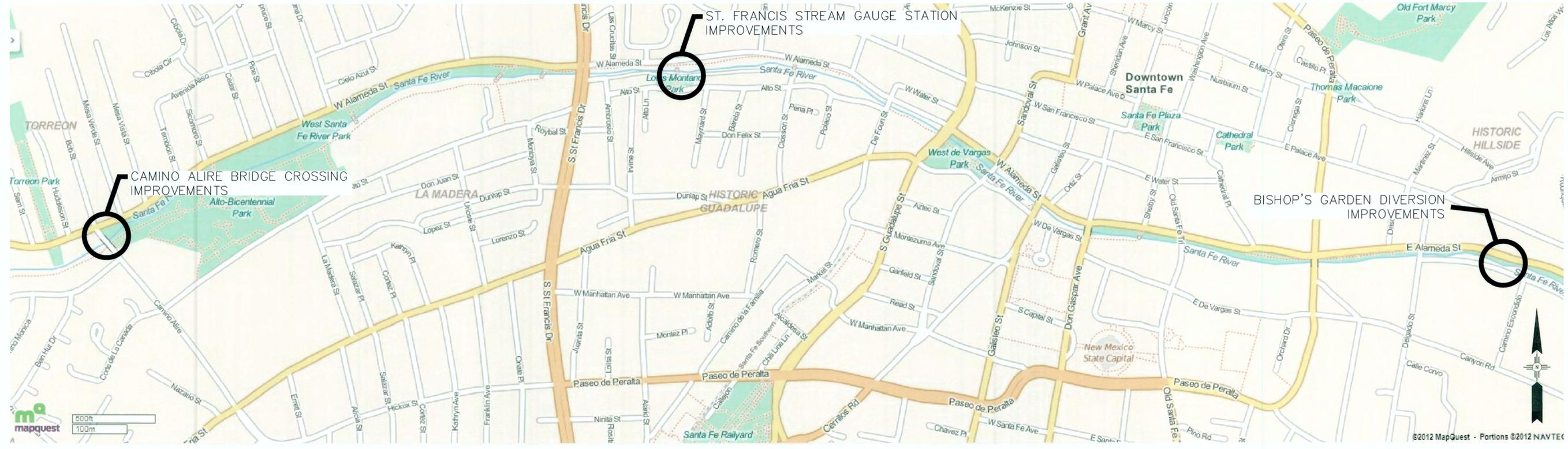
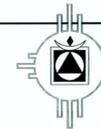
J. Lujan 3/8/13
ADA COORDINATOR DATE

REVIEWED BY HISTORIC
PRESERVATION DIVISION

[Signature] 3.25.13
HISTORIC PRESERVATION DIVISION DATE



ALL PROJECTS UNDER THE CARE OF GANNETT FLEMING WEST, INC. ARE SUBJECT TO THE CITY OF SANTA FE'S POLICIES AND PROCEDURES. THE CITY OF SANTA FE IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THIS DOCUMENT.



VICINITY MAP
NTS

LEGEND

- TRASH BIN
- BENCH
- FOUND CONTROL MONUMENT
- TRAFFIC JUNCTION BOX
- TRAFFIC PULL BOX
- POWER POLE
- GUY WIRE
- ELECTRIC BOX
- GAS MARKER
- BOLLARD
- STREET SIGN
- DECIDUOUS TREE
- OVERHEAD POWER
- CHAINLINK FENCE
- HAND RAIL
- BRICK WALL
- STONE RETAINING WALL
- CONCRETE
- RIP-RAP

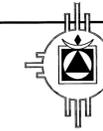


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CITY OF SANTA FE
ENGINEERING DIVISION
SANTA FE RIVER IMPROVEMENTS

VICINITY MAP

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CITY OF SANTA FE CAPITAL IMPROVEMENT PROJECT NO.	SHEET NO.
412A	1-3

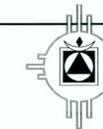
INDEX OF SHEETS

SHEET NUMBER BY SECTION	NUMBER OF SHEETS	SHEET DESCRIPTION
1-1	1	COVER SHEET
1-2	1	VICINITY MAP
1-3	1	INDEX OF SHEETS
1-4	1	SUMMARY OF QUANTITIES
1-5	1	GENERAL NOTES
1-6	1	SURVEY CONTROL
SUBTOTAL =	6	
2-1	1	CAMINO ALIRE IMPROVEMENTS
2-2	1	CAMINO ALIRE DETAILS
2-3	1	CAMINO ALIRE DETAILS
2-4	1	CAMINO ALIRE DETAILS
2-5	1	SCOUR PROTECTION REPAIRS
SUBTOTAL =	5	
3-1	1	ST FRANCIS STREAM GAUGE IMPROVEMENTS
3-2	1	ST FRANCIS STREAM GAUGE DETAILS
SUBTOTAL =	2	
4-1	1	BISHOPS GARDEN DIVERSION IMPROVEMENTS
4-2	1	BISHOPS GARDEN DIVERSION DETAILS
SUBTOTAL =	2	
5-1	1	MISCELLANEOUS DETAILS
TOTAL SHEETS =	16	

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REVISIONS (OR CHANGE NOTICES)			
CITY OF SANTA FE ENGINEERING DIVISION SANTA FE RIVER IMPROVEMENTS INDEX OF SHEETS			



BID ITEM #	ITEM ID NO.	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY
CAMINO ALIRE BRIDGE CROSSING IMPROVEMENTS				
1	203301	REMOVE AND SALVAGE EXISTING RIPRAP STONE, INCLUDING STORAGE OF STONE AND DISPOSAL OF RIPRAP WIRE, COMPLETE.	CY	82
2	201100	CLEARING AND GRUBBING, INCLUDES REMOVAL OF ANY TREES AS DIRECTED BY PROJECT MANAGER, COMPLETE.	LS	1
3	203100	BORROW MATERIAL WHEN NOT OBTAINED WITHIN PROJECT LIMITS, INCLUDING HAUL. COMPLETE.	CY	115
4	66700A	LIMESTONE BOULDERS, MINIMUM VOLUME OF 54 CU FT EACH, NO DIMENSION SHALL BE LESS THAN 3". INCLUDING HAUL. COMPETE IN PLACE	CY	405
5	66700B	LIMESTONE BOULDERS, RECTANGULAR IN SHAPE, MINIMUM VOLUME OF 36 CU FT EACH, DIMENSION SHALL BE APPROXIMATELY 6' LONG x 2' HIGH x 3' DEEP. INCLUDING HAUL. COMPETE IN PLACE	CY	93
6	203000	UNCLASSIFIED EXCAVATION, INCLUDING PLACEMENT OF FILL MATERIAL AND COMPACTION. CIP	CY	165
7	516000	FLOWABLE FILL FOR GROUT OF RIPRAP AND WALLS, CIP.	CY	20
8	602200	RIPRAP GABION BASKETS, CIP	CY	39
9	602040	GROUTED RIPRAP, CLASS F, FOR RUNDOWNS, CIP	CY	20
10		LOOSE RIPRAP FOR FILL AREAS, RUNDOWNS AND SLOPE STABILIZATION, CIP	CY	17
11	604110	GEOTEXTILE FABRIC, CIP	SY	190
12	632100	HYDRO SEEDING	SY	181
13		MOBILIZATION, COMPLETE (5%)	LS	1
14		DEMOBILIZATION, COMPLETE (2%)	LS	1
15	801000	CONSTRUCTION STAKING BY CONTRACTOR	LS	1
16	60305X	CLEAN WATER ACT COMPLIANCE, INCLUDING BUT NOT LIMITED TO PREPARATION OF SWPPP, IMPLEMENTATION OF BMPS, SWPPP MAINTENANCE, INSPECTIONS, COMPLETE	LS	1
17		LAB TESTING	1	ALLOW

BID ITEM #	ITEM ID NO.	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY
ST FRANCIS STREAM GAUGE STATION IMPROVEMENTS				
1	201100	CLEARING AND GRUBBING, INCLUDES REMOVAL OF ANY TREES AS DIRECTED BY PROJECT MANAGER, COMPLETE.	LS	1
2	203000	UNCLASSIFIED EXCAVATION, INCLUDING PLACEMENT OF FILL MATERIAL AND COMPACTION. CIP	CY	62
3	203100	BORROW MATERIAL WHEN NOT OBTAINED WITHIN PROJECT LIMITS, INCLUDING HAUL. COMPLETE.	CY	8
4	66700A	LIMESTONE BOULDERS, MINIMUM VOLUME OF 54 CU FT EACH, NO DIMENSION SHALL BE LESS THAN 3". INCLUDING HAUL. COMPETE IN PLACE	CY	22
5	66700C	LIMESTONE BOULDERS, MINIMUM VOLUME OF 24 CU FT EACH, NO DIMENSION SHALL BE LESS THAN 2". INCLUDING HAUL. COMPETE IN PLACE	CY	108
6	602010	RIRAP STONE, CLASS F, NOT OBTAINED WITHIN PROJECT LIMITS, INCLUDING HAUL. COMPLETE IN PLACE	CY	13
7	604110	GEOTEXTILE FABRIC, CIP	SY	30
8		HYDRO SEEDING	SY	20

BID ITEM #	ITEM ID NO.	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY
BISHOPS GARDEN DIVERSION IMPROVEMENTS				
9	201100	CLEARING AND GRUBBING, INCLUDES REMOVAL OF ANY TREES AS DIRECTED BY PROJECT MANAGER, COMPLETE.	LS	1
10	203000	UNCLASSIFIED EXCAVATION, INCLUDING PLACEMENT OF FILL MATERIAL AND COMPACTION. CIP	CY	15
11	203100	BORROW MATERIAL WHEN NOT OBTAINED WITHIN PROJECT LIMITS, INCLUDING HAUL. COMPLETE.	CY	15
12	516000	FLOWABLE FILL FOR GROUT ON FACE OF EXISTING STRUCTURE, CIP.	CY	2
13	604110	GEOTEXTILE FABRIC, CIP	SY	173
14	66700A	LIMESTONE BOULDERS, MINIMUM VOLUME OF 54 CU FT EACH, NO DIMENSION SHALL BE LESS THAN 3". INCLUDING HAUL. COMPETE IN PLACE	CY	230
15	66700D	LIMESTONE BOULDERS, BLOCK SHAPED WITH ONE FLAT FACE, DIMENSIONS SHALL BE 8" MINIMUM AND 24" MAXIMUM. INCLUDING HAUL. COMPETE IN PLACE	CY	14

BID ITEM #	ITEM ID NO.	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY
MISCELLANEOUS PROJECT ITEMS (PER EACH BID PACKAGE)				
16		MOBILIZATION, COMPLETE (5%)	LS	1
17		DEMOBILIZATION, COMPLETE (2%)	LS	1
18	801000	CONSTRUCTION STAKING BY CONTRACTOR	LS	1
19	60305X	CLEAN WATER ACT COMPLIANCE, INCLUDING BUT NOT LIMITED TO PREPARATION OF SWPPP, IMPLEMENTATION OF BMPS, SWPPP MAINTENANCE, INSPECTIONS, COMPLETE	LS	1
20		LAB TESTING	1	ALLOW

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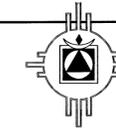


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REVISIONS (OR CHANGE NOTICES)

 CITY OF SANTA FE
 ENGINEERING DIVISION
 SANTA FE RIVER IMPROVEMENTS

 SUMMARY OF QUANTITIES



CITY OF SANTA FE CAPITAL IMPROVEMENT PROJECT NO.	SHEET NO.
412A	1-5

GENERAL NOTE

- PROTECTION OF SURVEY MONUMENTS: THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT HORIZONTAL AND VERTICAL CONTROL SURVEY MONUMENTS (MARK) FROM DAMAGE PRIOR TO INITIATING CONSTRUCTION. IF DURING THE COURSE OF CONSTRUCTION OPERATIONS, THE CONTRACTOR DISTURBS OR DESTROYS A MARK, THE CONTRACTOR SHALL ESTABLISH A NEW MARK IN COMPLIANCE WITH THE STANDARDS AND PROCEDURES SET FORTH IN THE "GEODETIC MARK PRESERVATION GUIDEBOOK", NATIONAL GEODETIC SURVEY, MARCH 1990, AT THE CONTRACTORS EXPENSE. CONTACT: NGS MARK PRESERVATION CENTER - NOAA, TELEPHONE # (505) 768-3606. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO MEASUREMENT OR PAYMENT WILL BE MADE.
- REMOVALS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS REQUIRED TO COMPLETE THE PROJECT. IF ADDITIONAL REMOVALS NOT LISTED IN PLANS ARE NECESSARY TO COMPLETE THIS PROJECT, THE WORK AND COSTS ASSOCIATED WILL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFORE.
- MAINTENANCE OF AS-BUILT PLANS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A CURRENT SET OF AS-BUILT PLANS FOR THE PROJECT. AS-BUILT PLANS WILL BE MADE AVAILABLE TO THE PROJECT MANAGER AT ALL TIMES. HOWEVER THE CONTRACTOR MUST PROVIDE VERTICAL AND HORIZONTAL DATA FOR ANY AND ALL FIELD CHANGES. THIS SHALL BE PROVIDED WITHIN TWO (2) DAYS IF REQUIRED BY THE PROJECT MANAGER PRIOR TO FINAL PAYMENT.
- DAMAGE TO UTILITIES: THE CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO ADDITIONAL PAYMENT WILL BE MADE THEREFORE. DAMAGES OR REPAIRS THAT OCCUR DURING CONSTRUCTION SHALL BE MADE AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL PAYMENT WILL BE MADE THEREFORE. THE INCIDENTAL WORK SHALL ALSO INCLUDE ANY POT HOLE OR OTHER WORK REQUIRED TO VERIFY UTILITIES. CONTACT NEW MEXICO ONE CALL SYSTEM INC. 1-800-321-ALER(T).
- PUBLIC NOTIFICATION OF ROAD AND LANE CLOSURES: THE CONTRACTOR SHALL KEEP THE LOCAL MEDIA AND PROJECT MANAGER INFORMED OF LANE CLOSURES WHICH WILL RESTRICT THE NORMAL FLOW OF TRAFFIC AT LEAST ONE (1) WEEK PRIOR TO SUCH CLOSURES. THIS WORK WILL BE CONSIDERED AS INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFORE.
- SPECIFICATIONS: CONSTRUCTION ON THIS PROJECT SHALL BE GOVERNED BY THE NEW MEXICO DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 2007 EDITION" AND THE "SANTA FE RIVER CORRIDOR MASTER PLAN, SEPTEMBER 1995". REFERENCES TO THE DEPARTMENT SHALL IMPLY THE CITY OF SANTA FE FOR THIS PROJECT.
- ESTIMATED QUANTITIES: ALL QUANTITIES SCHEDULED IN THE PLANS ARE FOR ESTIMATING PURPOSES ONLY. PAYMENT AND MEASUREMENT OF QUANTITIES SHALL BE DONE IN ACCORDANCE WITH SECTION 109 - MEASUREMENT AND PAYMENT OF THE NMDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 2007 EDITION
- DISPOSAL OF MATERIALS: THE CONTRACTOR SHALL PROPERLY HANDLE AND DISPOSE OF MATERIAL (I.E. ASPHALT, CONCRETE, VEGETATION, UNSTABLE EARTH, METAL, & OTHER DEBRIS) REMOVED ON THE PROJECT BY HAULING IT TO AN APPROVED LANDFILL IN ACCORDANCE WITH THE REGULATIONS OF THE NEW MEXICO SOLID WASTE ACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HAULING AND DUMPING FEES
- VERIFICATION OF EXISTING DATA: THE CONTRACTOR SHALL FIELD VERIFY ALL CONSTRUCTION CENTERLINES AND EXISTING GROUND LINE PROFILES PRIOR TO INITIATING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL UTILIZE THE FIELD VERIFICATION DATA TO ADJUST THE PROPOSED HORIZONTAL AND VERTICAL ALIGNMENTS TO BETTER FIT THE EXISTING FIELD CONDITIONS. THE CONTRACTOR SHALL SUBMIT PROPOSED MODIFICATIONS TO THE PROJECT MANAGER FOR APPROVAL PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. THE WORK AND COST ASSOCIATED WITH VERIFYING EXISTING SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT PRICE FOR ITEM NO. 801000 - CONSTRUCTION STAKING BY THE CONTRACTOR AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFORE, THE CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS, DIMENSIONS, AND RIGHT-OF-WAY PRIOR TO THE BEGINNING OF CONSTRUCTION. THE ELEVATION WERE BASED ON AS-BUILT AND FIELD SURVEY DATA. RIGHT-OF-WAY MAPS ARE AVAILABLE FROM THE CITY OF SANTA FE. THE CONTRACTOR SHALL LIMIT ALL WORK ON THIS PROJECT TO WITHIN THE EXISTING HIGHWAY RIGHT-OF-WAY OR PUBLIC EASEMENTS.
- CPM SCHEDULE: THE CONTRACTOR SHALL SUBMIT TO THE PROJECT MANAGER A CRITICAL PATH PROJECT SCHEDULE TWO (2) WEEKS PRIOR TO THE PRECONSTRUCTION CONFERENCE. THE CRITICAL PATH PROJECT SCHEDULE IS TO INCLUDE LOGIC POINTS, OR PRODUCTION LEVELS, USED IN ITS DEVELOPMENT. THE SCHEDULE SHALL BE UPDATED MONTHLY OR AS REQUIRED BY THE PROJECT MANAGER. THE WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT, AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFORE. THE SOFTWARE TO DEVELOP THE CPM WILL BE COMPATIBLE WITH MS PROJECTS.
- UTILITY DISCLAIMER: UTILITY LOCATIONS SHOWN HEREIN ARE BASED ON THE BEST AVAILABLE EVIDENCE INCLUDING PHYSICAL FEATURES SUCH AS VALVES, PEDESTALS AND WARNING MARKERS. THE SURVEYOR MAKES NO GUARANTEE AS TO THE COMPLETENESS OR ACCURACY OF THE UTILITY DATA SHOWN. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION.

- NOISE ORDINANCE: CITY OF SANTA FE NOISE ORDINANCE SFCC S 10-2.4 B. (5) (a) PROHIBITS OPERATION OF EQUIPMENT USED IN CONSTRUCTION WORK IN RESIDENTIAL OR COMMERCIAL ZONED AREAS BETWEEN THE HOURS OF 9:00 P.M. AND 7:00 A.M. THE FOLLOWING DAY. IN ACCORDANCE WITH SFCC S 10-2.8 PERMITS, THE CONTRACTOR MAY REQUEST APPROVAL OF A PERMIT TO BE EXEMPT FROM THE AFOREMENTIONED NOISE ORDINANCE FOR THE DURATION OF PROJECT CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE AT THE CONTRACTORS OWN EXPENSE AND WITHOUT LIABILITY TO THE OWNER ANY ADDITIONAL LAND AND ACCESS THERETO THAT THE CONTRACTOR MAY DESIRE FOR TEMPORARY STAGING AREA OR YARD FOR STORAGE OF EQUIPMENT AND MATERIALS.
- THE CONTRACTOR SHALL REMOVE EXISTING SILT FENCE AND MULCH SOCKS AT THE TIME THE ONE YEAR WARRANTY HAS BEEN COMPLETED. THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE ITEM 60305X-CLEAN WATER ACT COMPLIANCE AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFORE.
- WEEKLY PROJECT MEETINGS: THE CONTRACTOR SHALL COORDINATE AND CONDUCT A WEEKLY PROJECT MEETING DURING CONSTRUCTION, IN COORDINATION WITH THE PROJECT MANAGER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING MEETING LOCATION AND SHALL INVITE APPROPRIATE CITY STAFF & UTILITY COMPANY REPRESENTATIVES. THE COST ASSOCIATED WITH THESE WEEKLY MEETINGS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO FURTHER MEASUREMENT OR PAYMENT WILL BE MADE THEREFORE.
- CONSTRUCTION WATER: THE CITY OF SANTA FE MAY PROHIBIT THE USE OF POTABLE WATER (FROM FIRE HYDRANTS) FOR CONSTRUCTION PURPOSES AND THE CONTRACTOR MAY BE REQUIRED TO USE RECLAIMED OR EFFLUENT WATER. THE CONTRACTOR SHOULD CONTACT THE CITY'S WASTEWATER DIVISION AT 955 4650 FOR MORE INFORMATION AND PRICING. IT WILL BE THE CONTRACTORS RESPONSIBILITY TO SECURE AND SUPPLY WATER FOR THE PROJECT. THE COST WILL BE INCIDENTAL TO COMPLETION OF THE PROJECT AND NO SEPARATE PAYMENT WILL BE MADE THEREFORE.
- EQUIPMENT STORAGE: THE CONTRACTOR SHALL NOT STORE EQUIPMENT WITHIN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR MUST MAKE ARRANGEMENTS TO STORE EQUIPMENT AND MATERIALS OUTSIDE PUBLIC RIGHT-OF-WAY.
- LANDFILL FEES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LANDFILL DUMPING FEES. THIS COST SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO MEASUREMENT OR PAYMENT WILL BE MADE.
- PLAN DIMENSIONS: ALL DIMENSIONS ON PLANS ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ALL OTHER PERTINENT INFORMATION THAT MAY BE REQUIRED TO COMPLETE THE WORK.
- PRIVATE VEHICLES: PARKING OF PRIVATE VEHICLES SHALL NOT BE ALLOWED ALONG CONSTRUCTION AREAS THROUGHOUT THE CONSTRUCTION LIMITS.
- EARTHWORK HAUL: THE EARTHWORK HAUL ON THIS PROJECT WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT PRICE FOR ITEM NO 203000 - UNCLASSIFIED EXCAVATION AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.
- WARPING OF SLOPES: THE CONTRACTOR SHALL WARP SLOPES WHERE NECESSARY TO STAY WITHIN THE RIGHT-OF-WAY OR CONSTRUCTION EASEMENT LIMITS.
- UTILITY DELAYS: THE CONTRACTOR SHALL NOT RECEIVE ADDITIONAL COMPENSATION OR TIME EXTENSION FOR DELAYS OR INCONVENIENCES OR DAMAGES SUSTAINED DUE TO ANY INTERFERENCES FROM SAID UTILITY APPURTENANCES OR THE OPERATION OF MOVING THEM RESULTING FROM CONTRACTOR'S NEGLIGENCE.
- TEMPORARY ACCESS ROUTES FOR PEDESTRIANS: ANY TEMPORARY ACCESS ROUTES FOR PEDESTRIANS SHALL BE COMPLIANT WITH ADA.
- ACCESS TO THE PROJECT SITE(S) SHALL BE RESTRICTED TO THE SOUTH SIDE OF THE SANTA FE RIVER AS MUCH AS POSSIBLE. IF ACCESS IS REQUIRED FROM THE NORTH SIDE, THE CONTRACTOR SHALL MAKE APPLICATION TO THE CITY PROJECT MANAGER FOR PERMISSION. THE APPLICATION SHALL INCLUDE A TRAFFIC CONTROL PLAN, WHICH HAS BEEN PREPARED BY A LICENSED PROFESSIONAL ENGINEER. PREPARATION OF THE TRAFFIC CONTROL PLAN(S) SHALL BE INCIDENTAL TO THE PROJECT AND NO MEASUREMENT OR PAYMENT SHALL BE MADE. ANY DAMAGE TO EXISTING FEATURES, INCLUDING BUT NOT LIMITED TO, CURB AND GUTTER, SIDEWALK, LANDSCAPING, FINISHED TRAILS, RAILING, ETC. SHALL BE REPAIRED AT THE CONTRACTOR'S OWN EXPENSE.
- THIS PROJECT SHALL BE CONSTRUCTED UNDER SECTION 404 NATIONWIDE PERMIT FOR MAINTENANCE. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE CLEAN WATER ACT. IF ANY CULTURAL ARTIFACTS ARE UNCOVERED DURING CONSTRUCTION, THE CONTRACTOR SHALL CEASE OPERATIONS IMMEDIATELY AND NOTIFY THE CITY PROJECT MANAGER AND CONTACT THE NEW MEXICO ENVIRONMENT DEPARTMENT.
- BOULDERS SHOWN IN PLAN VIEWS MAY NOT BE DRAWN TO SCALE.
- NEW BOULDERS SHALL BE PLACED IN A STAGGERED PATTERN SO AS TO OVERLAP JOINTS. JOINTS SHALL BE CHINKED WITH SMALLER COBBLES TO STABILIZE STRUCTURES.
- EXISTING BOULDERS SHALL NOT BE DISTURBED, DISLODGED OR DAMAGED. ANY EXISTING BOULDERS THAT ARE DISLODGED OR DAMAGED SHALL BE REPLACED AT CONTRACTOR'S OWN EXPENSE.
- UNLESS DIRECTED OTHERWISE, EXISTING VEGETATION SHALL NOT BE DISTURBED OR REMOVED. CONTRACTOR SHALL FLAG OR FENCE EXISTING VEGETATION THAT IS OUTSIDE AREA OF WORK. THIS SHALL BE INCIDENTAL TO THE PROJECT.

BOULDER SPECIFICATIONS
Boulders and/or stone for this project shall be separated into four (4) classifications.

- Cross Vanes (Drop Structures)-Boulders shall be limestone, circular in shape and have a minimum volume of 54 cubic feet. No dimension shall be less than 3 feet.
- Grouted wall adjacent to St. Francis Stream Gauge-Boulders shall be limestone, rectangular in shape and have a minimum volume of 24 cubic feet. No dimension shall be less than 2 feet.
- Slope protection under the Camino Alire bridge-Boulders shall be limestone, rectangular in shape and have a minimum volume of 36 cubic feet. Dimensions shall be approximately 6' long x 2' high x 3' deep.
- Bishops Garden Diversion Wall-Boulders shall be limestone, block shaped with at least one flat face. Minimum dimension shall vary from 8" to 24" maximum.

UTILITY OWNERS / CONTACTS

UTILITY	CONTACT	TELEPHONE
WATER	SANGRE DE CRISTO WATER CO. CITY OF SANTA FE (FRANK LEYBA)	955-4265 EMERGENCY: 955-4333
SEWER	CITY OF SANTA FE PUBLIC UTILITIES	955-4650
ELECTRIC	PUBLIC SERVICE COMPANY OF NEW MEXICO (PNM)	ELECTRIC: 473-3209 EMERGENCY: 950-1997
GAS	NEW MEXICO GAS COMPANY	888-664-2726
TELEPHONE	QWEST	1-800-321-2537 EMERGENCY: 473-2195
CABLE TV	COMCAST	474-7886

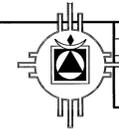
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CITY OF SANTA FE
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SANTA FE RIVER IMPROVEMENTS

GENERAL NOTES



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CITY OF SANTA FE CAPITAL IMPROVEMENT PROJECT NO.	SHEET NO.
412A	1-6

CAMINO ALIRE BRIDGE CROSSING

PROJECT LOCATION

THE AREA OF WORK SPANS FROM THE EXISTING BOULDER DROP STRUCTURE APPROXIMATELY 50 FEET WEST OF THE CAMINO ALIRE BRIDGE TO THE EXISTING BOULDER DROP STRUCTURE APPROXIMATELY 340 FEET EAST OF THE CAMINO ALIRE BRIDGE, SANTA FE, NEW MEXICO.

SURVEY INFORMATION

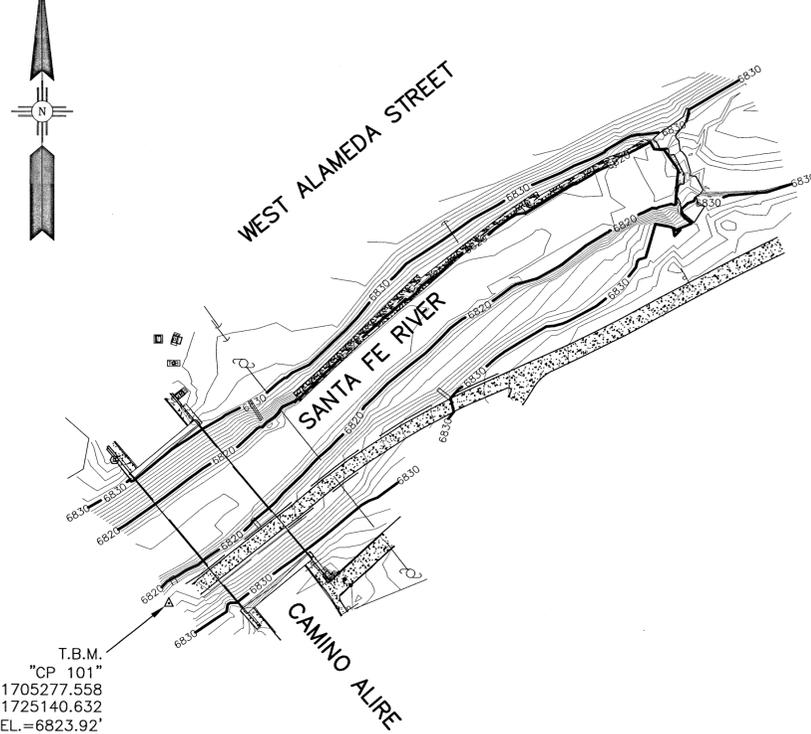
TOPOGRAPHIC SURVEY PERFORMED AND COMPILED BY TERRA LAND SURVEYS, LLC. CORRALES, NEW MEXICO JULY 2012.

TEMPORARY BENCHMARK

TEMPORARY BENCHMARK IS A TERRA LAND SURVEY PK NAIL WITH WASHER "CP 101" LOCATED AT THE S.W. END OF THE SANTA FE RIVER TRAIL. APPROXIMATELY 31 FEET WEST OF THE WEST SIDE OF THE CAMINO ALIRE BRIDGE. ELEVATION=4,987.44 FEET (NAVD 88 VERTICAL DATUM)

NOTES

1. FIELD SURVEY PERFORMED IN JULY 2012.
2. TOPOGRAPHIC SURVEY WAS COMPILED UTILIZING GROUND COORDINATES REFERENCED TO THE NAD 83 NEW MEXICO CENTRAL ZONE COORDINATE SYSTEM. PRIMARY HORIZONTAL AND VERTICAL CONTROL WAS ESTABLISHED UTILIZING GPS RTK METHODS (COMBINED GROUND TO GRID FACTOR = 0.999582004).
3. ELEVATIONS SHOWN FOR PIPES ARE INVERT ELEVATIONS UNLESS OTHERWISE SPECIFIED.
4. CONTOURS SHOWN HEREON ARE AT A ONE FOOT INTERVAL REFERENCED TO THE NAVD 88 VERTICAL DATUM.



ST FRANCIS STREAM GAUGE STATION

PROJECT LOCATION

THE AREA OF WORK IS THE EXISTING BOULDER DROP STRUCTURE APPROXIMATELY 810 FEET WEST OF ST. FRANCIS DRIVE AND 100 FEET SOUTH OF WEST ALAMEDA STREET, SANTA FE, NEW MEXICO

SURVEY INFORMATION

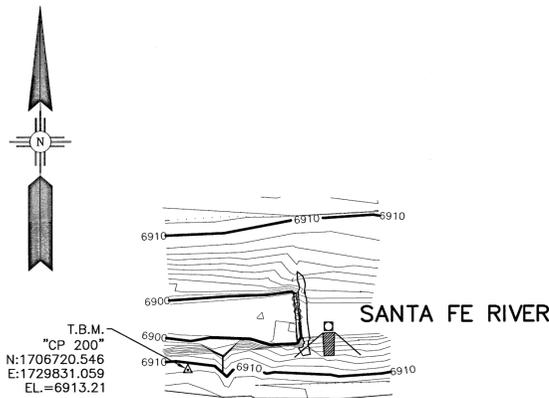
TOPOGRAPHIC SURVEY PERFORMED AND COMPILED BY TERRA LAND SURVEYS, LLC. CORRALES, NEW MEXICO JULY 2012.

PROJECT BENCHMARK

PROJECT BENCHMARK IS A 60D NAIL "CP 200" SET IN A TREE STUMP LOCATED AT THE S.W. END OF THE PROJECT ON THE SOUTH SIDE OF THE SANTA FE RIVER. ELEVATION = 6,913.21 FEET (NAVD 1988 VERTICAL DATUM).

NOTES

1. FIELD SURVEY PERFORMED IN JULY 2012.
2. TOPOGRAPHIC SURVEY WAS COMPILED UTILIZING GROUND COORDINATES REFERENCED TO THE NAD 83 NEW MEXICO CENTRAL ZONE COORDINATE SYSTEM. PRIMARY HORIZONTAL AND VERTICAL CONTROL WAS ESTABLISHED UTILIZING GPS RTK METHODS (COMBINED GROUND TO GRID FACTOR = 0.999582004).
3. ELEVATIONS SHOWN FOR PIPES ARE INVERT ELEVATIONS UNLESS OTHERWISE SPECIFIED.
4. CONTOURS SHOWN HEREON ARE AT A ONE FOOT INTERVAL REFERENCED TO THE NAVD 88 VERTICAL DATUM.



BISHOPS GARDEN DIVERSION

PROJECT LOCATION

THE AREA OF WORK IS APPROXIMATELY 1000 FEET WEST OF DELGADO STREET AND APPROXIMATELY 50 FEET SOUTH OF EAST ALAMEDA STREET, SANTA FE, NEW MEXICO

SURVEY INFORMATION

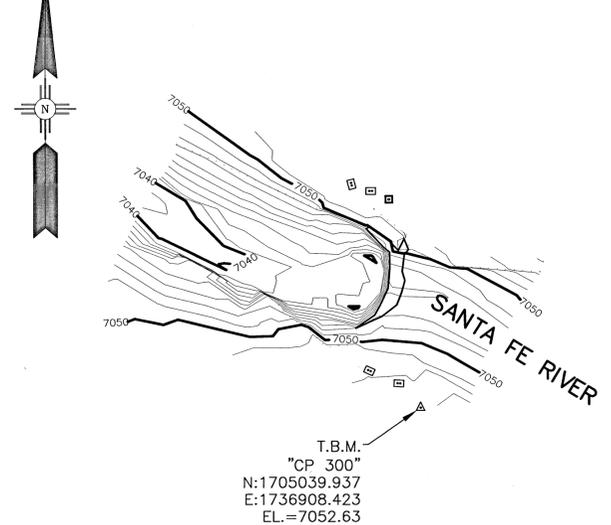
TOPOGRAPHIC SURVEY PERFORMED AND COMPILED BY TERRA LAND SURVEYS, LLC. CORRALES, NEW MEXICO JULY 2012.

PROJECT BENCHMARK

PROJECT BENCHMARK IS A 60D NAIL "CP 300" LOCATED AT THE S.E. END OF THE PROJECT NEAR THE TOP OF OF THE SANTA FE RIVER. ELEVATION = 7,052.71 FEET (NAVD 1988 VERTICAL DATUM).

NOTES

1. FIELD SURVEY PERFORMED IN JULY 2012.
2. TOPOGRAPHIC SURVEY WAS COMPILED UTILIZING GROUND COORDINATES REFERENCED TO THE NAD 83 NEW MEXICO CENTRAL ZONE COORDINATE SYSTEM. PRIMARY HORIZONTAL AND VERTICAL CONTROL WAS ESTABLISHED UTILIZING GPS RTK METHODS (COMBINED GROUND TO GRID FACTOR = 0.999582004).
3. ELEVATIONS SHOWN FOR PIPES ARE INVERT ELEVATIONS UNLESS OTHERWISE SPECIFIED.
4. CONTOURS SHOWN HEREON ARE AT A ONE FOOT INTERVAL REFERENCED TO THE NAVD 88 VERTICAL DATUM.



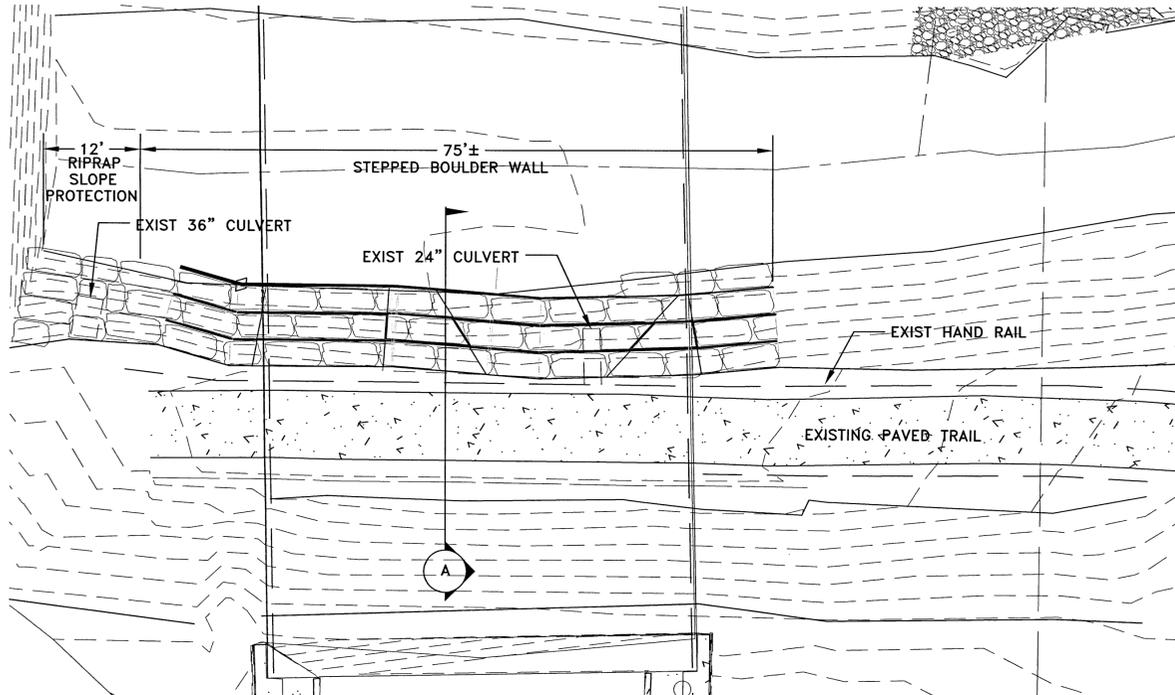
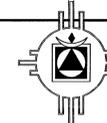
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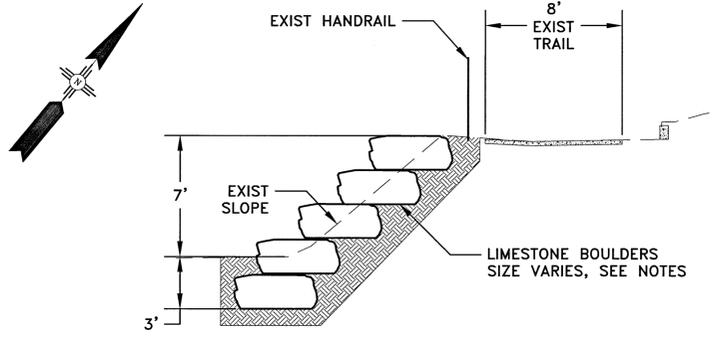
CITY OF SANTA FE
ENGINEERING DIVISION
SANTA FE RIVER IMPROVEMENTS

SURVEY CONTROL

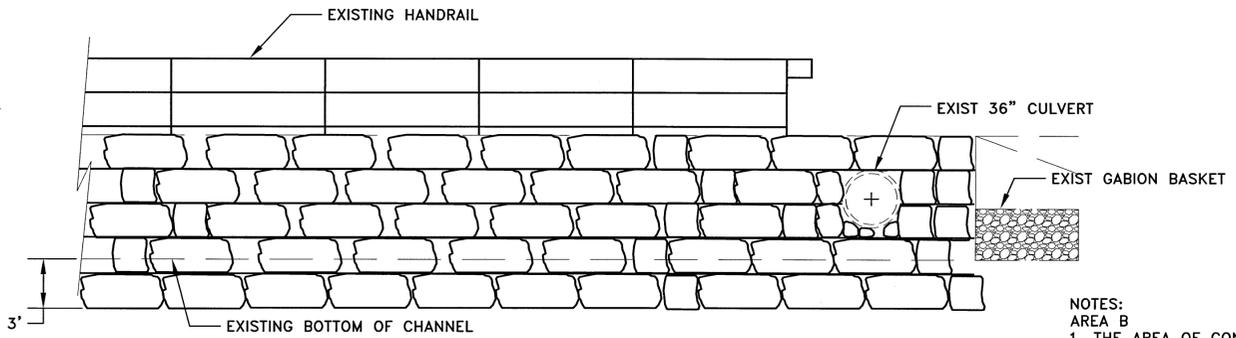




PLAN A
SCALE: 1"=10'



SECTION A
SCALE: 1"=10'

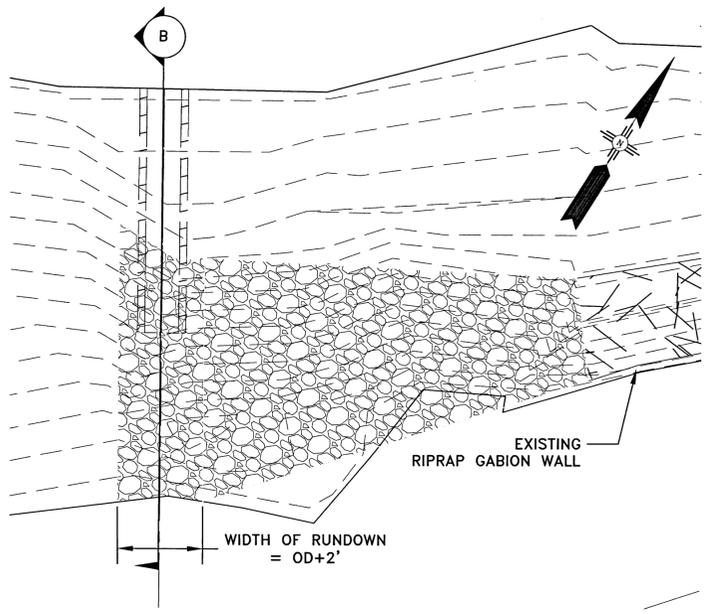


ELEVATION A
SCALE: 1"=10'

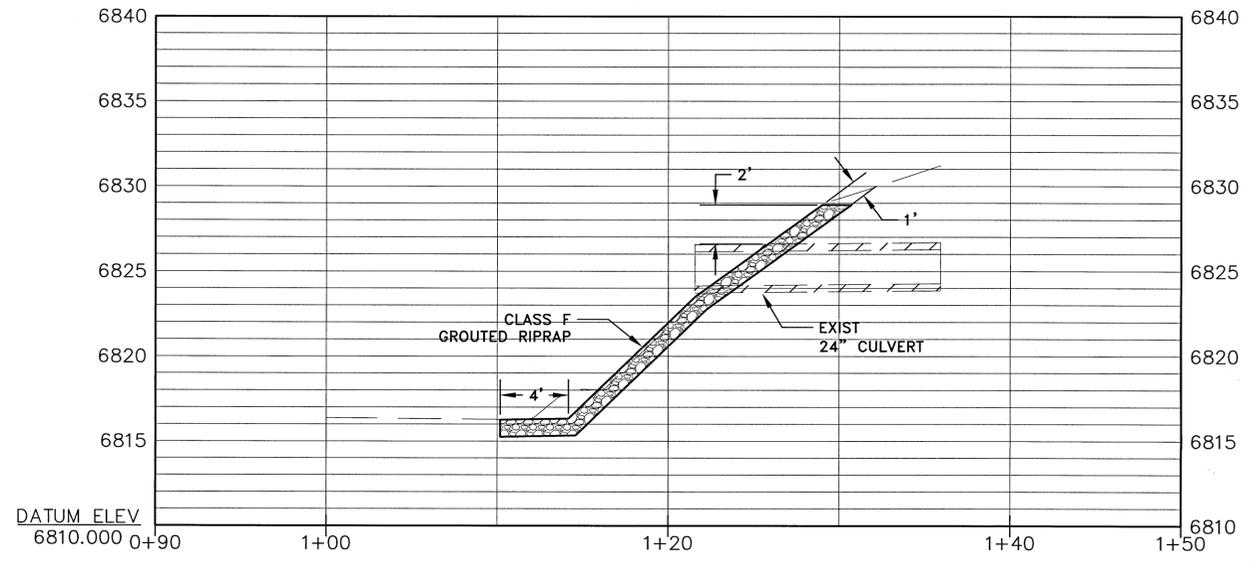
- NOTES:
AREA A
1. THE AREA OF CONSTRUCTION IS APPROXIMATELY 87'LONG x 10'WIDE x 7' TALL.
 2. THE CONTRACTOR SHALL REMOVE APPROXIMATELY 37 CY OF LOOSE RIPRAP MATERIAL ALONG THE EXISTING SLOPE BELOW THE ASPHALT TRAIL.
 3. EXISTING RIPRAP MATERIAL FROM THIS SLOPE SHALL BE REMOVED AND SALVAGED FOR USE IN OTHER RIPRAP APPLICATIONS ON THIS PROJECT.
 4. CONTRACTOR SHALL CHINK GAPS BETWEEN BOULDERS WITH SALVAGED RIPRAP COBBLES OR SMALLER BOULDERS.
 5. LIMESTONE BOULDERS SHALL BE RECTANGULAR IN SHAPE, HAVE A MINIMUM VOLUME OF 36 CF AND DIMENSIONS SHALL BE APPROXIMATELY 6' LONG x 2' HIGH x 3' DEEP.
 6. GROUT BOULDERS INTO PLACE. GROUT SHALL BE SET BACK 1"-2" FROM FACE OF WALL SO THAT IT IS NOT VISIBLE.
 7. TOTAL VOLUME OF BOULDERS IS APPROXIMATELY 93 CY.

- NOTES:
AREA B
1. THE AREA OF CONSTRUCTION IS APPROXIMATELY 27'LONG x 14'WIDE x 14'TALL.
 2. THE CONTRACTOR SHALL REMOVE APPROXIMATELY 2 CY OF LOOSE RIPRAP MATERIAL BELOW THE EXISTING 24" CULVERT.
 3. THE SLOPE WILL BE STABILIZED FROM THE END OF THE EXISTING RIPRAP GABIONS TO THE EAST, TO THE EXISTING CULVERT.
 4. EXISTING RIPRAP MATERIAL SALVAGED FROM AREA A AND B MAY BE USED FOR GROUTED RIPRAP IN THIS AREA.
 5. TOTAL VOLUME APPROXIMATELY 11 CY.

CONTRACTOR SHALL FLAG OR FENCE WORK AREA AND PROTECT EXISTING VEGETATION OUTSIDE AREA REQUIRED FOR EXCAVATION AND PLACEMENT OF WORK. PROTECTION OF EXISTING VEGETATION IS INCIDENTAL TO THE PROJECT.



PLAN B
SCALE: 1"=10'

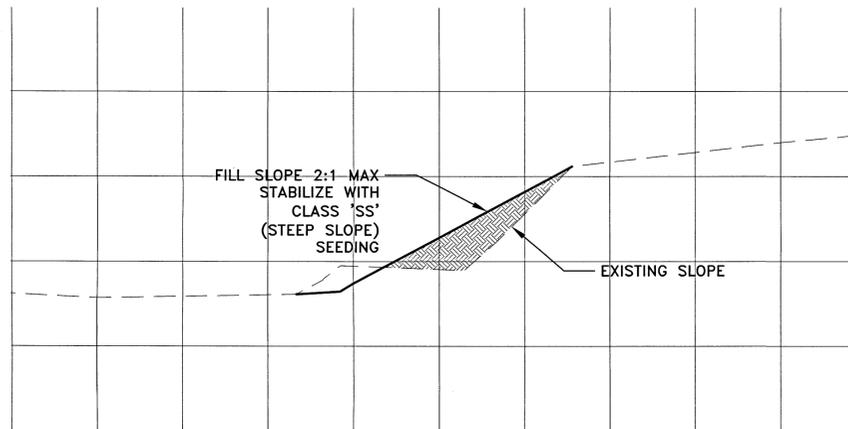
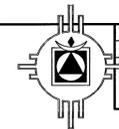


SECTION B
SCALE: 1"=10'

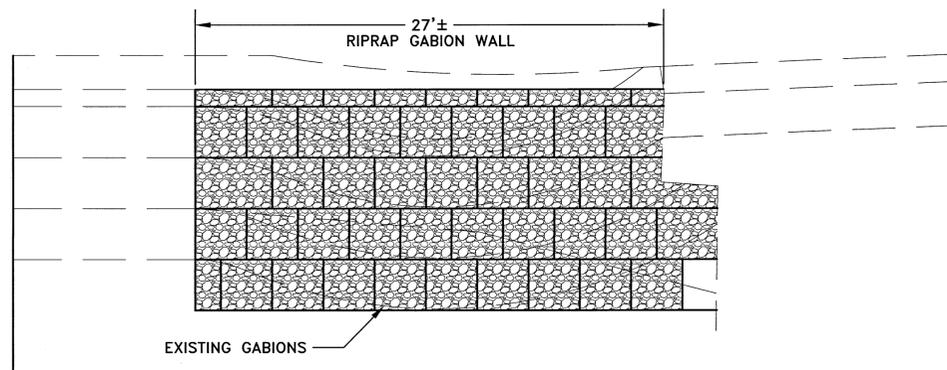
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CITY OF SANTA FE
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SANTA FE RIVER IMPROVEMENTS
CAMINO ALIRE BRIDGE CROSSING
IMPROVEMENTS DETAILS SHEET

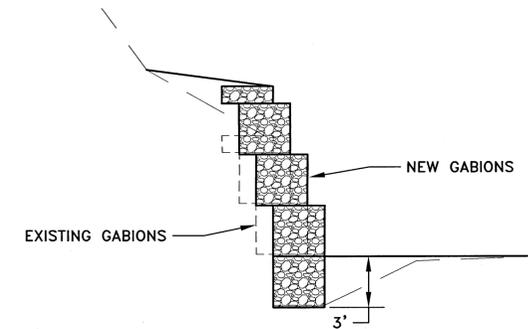




SECTION C
SCALE: 1"=10'



ELEVATION D
SCALE: 1"=10'



SECTION D
SCALE: 1"=10'

NOTES:

C

1. THE AREA OF CONSTRUCTION IS APPROXIMATELY 137'LONG x 14'WIDE x 7' TALL.
2. THE CONTRACTOR SHALL REMOVE APPROXIMATELY 4 CY OF LOOSE RIPRAP MATERIAL ALONG THE BASE OF THE SLOPE.
3. APPROXIMATELY 50 CY OF FILL MATERIAL WILL BE BACKFILLED IN THE AREA TO BRING THE SLOPE BACK TO 2:1.
4. THE SLOPE WILL BE STABILIZED WITH CLASS SS (STEEP SLOPE) SEEDING.

D

1. THE AREA OF CONSTRUCTION IS APPROXIMATELY 24'LONG x 6'WIDE x 10' TALL.
2. THE CONTRACTOR SHALL REMOVE AND REPLACE APPROXIMATELY 39 CY OF RIPRAP GABION BASKETS.
3. RIPRAP GABION BASKETS SHALL BE CONSTRUCTED PER NMDOT STANDARD DETAIL 602-05-1/2.

E

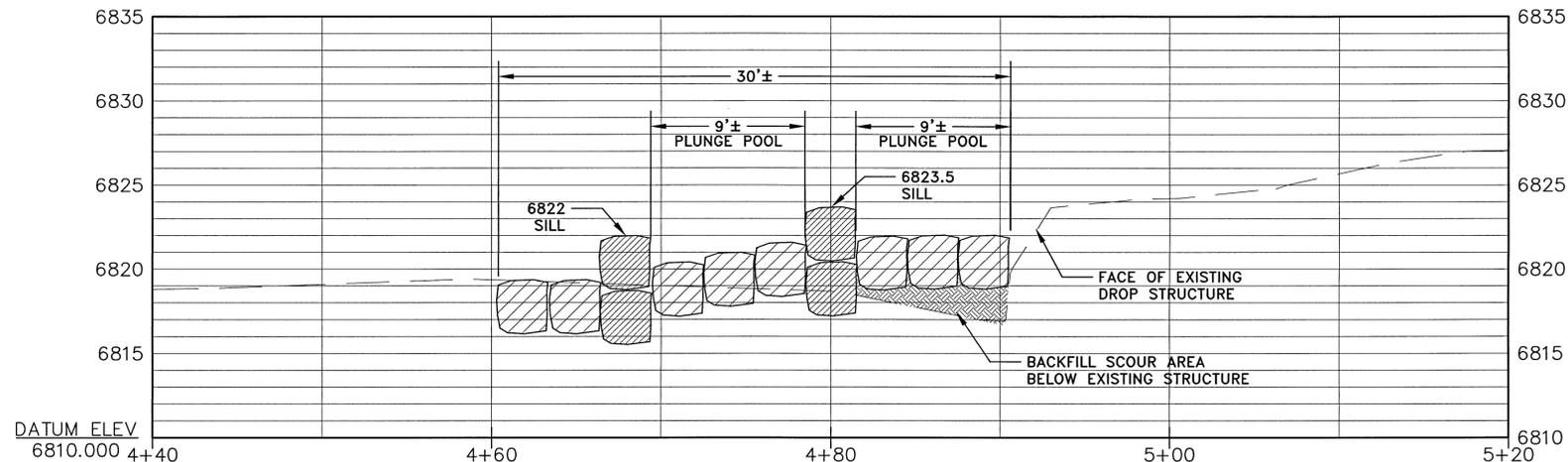
1. THE AREA OF CONSTRUCTION IS APPROXIMATELY 37'WIDE x 27' LONG.
2. CONTRACTOR SHALL BACKFILL AREA BELOW EXISTING DROP STRUCTURE WITH APPROXIMATELY 65 CY OF FILL MATERIAL.
3. BOULDERS FOR NEW DROP STRUCTURE SHALL BE MINIMUM VOLUME OF 54 cf, AND NO DIMENSION SHALL BE LESS THAN 3'.
4. STAGGER BOULDERS TO OFFSET JOINTS.
5. SEE SHEET 5-1 FOR DETAILS ON PLACEMENT OF BOULDERS.
6. CHINK GAPS BETWEEN BOULDERS WITH SMALLER STONE THAT WON'T BE WASHED DOWNSTREAM.
7. APPROXIMATE VOLUME OF BOULDERS 360 CY

F

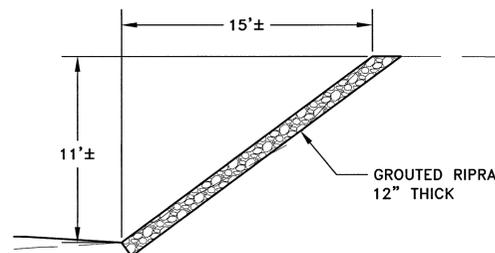
1. THE AREA OF CONSTRUCTION IS APPROXIMATELY 17'LONG x 14'WIDE x 11'TALL.
2. THE CONTRACTOR SHALL CONSTRUCT A NEW RUNDOWN USING GROUTED RIPRAP.
3. APPROXIMATE VOLUME OF GROUTED RIPRAP 8.5 CY.

CONTRACTOR SHALL TAKE CARE NOT TO DISTURB, DISLODGE OR DAMAGE BOULDERS IN EXISTING CROSSVANE STRUCTURE. ANY BOULDERS THAT ARE DISLODGED AND/OR DAMAGED SHALL BE REPLACED AT CONTRACTOR'S OWN EXPENSE.

CONTRACTOR SHALL FLAG OR FENCE WORK AREA AND PROTECT EXISTING VEGETATION OUTSIDE AREA REQUIRED FOR EXCAVATION AND PLACEMENT OF WORK. PROTECTION OF EXISTING VEGETATION IS INCIDENTAL TO THE PROJECT.



SECTION E
SCALE: 1"=10'



SECTION F
SCALE: 1"=10'



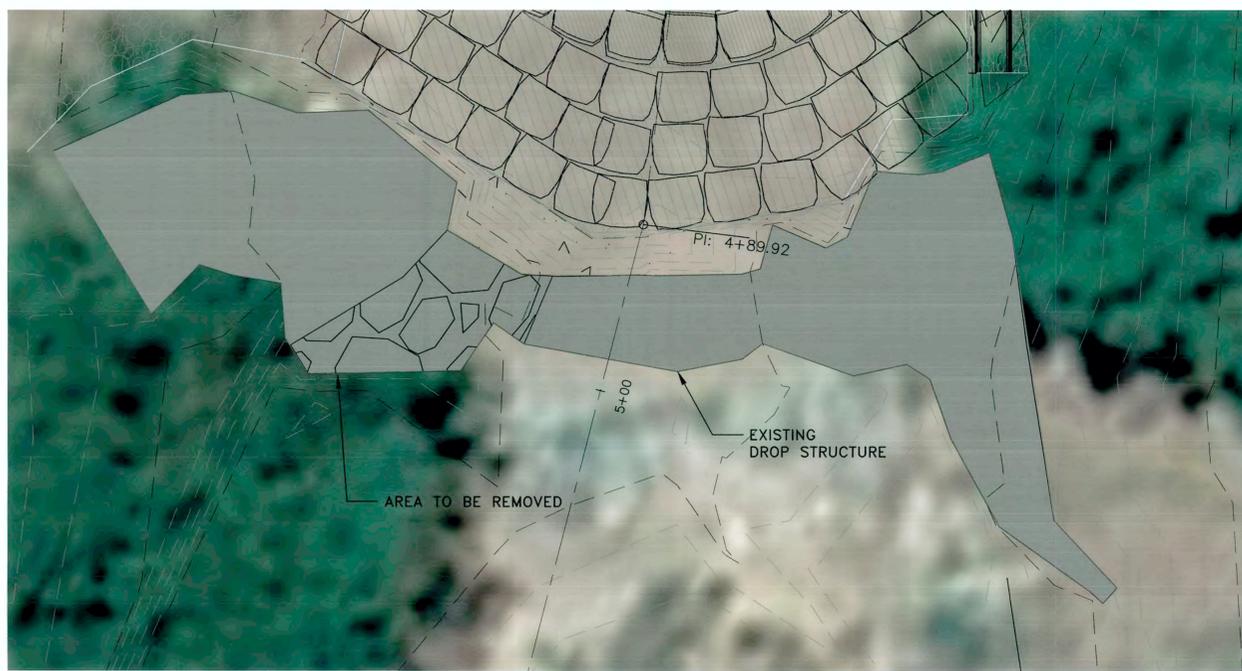
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CITY OF SANTA FE
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SANTA FE RIVER IMPROVEMENTS
CAMINO ALIRE BRIDGE CROSSING
IMPROVEMENTS DETAILS SHEET

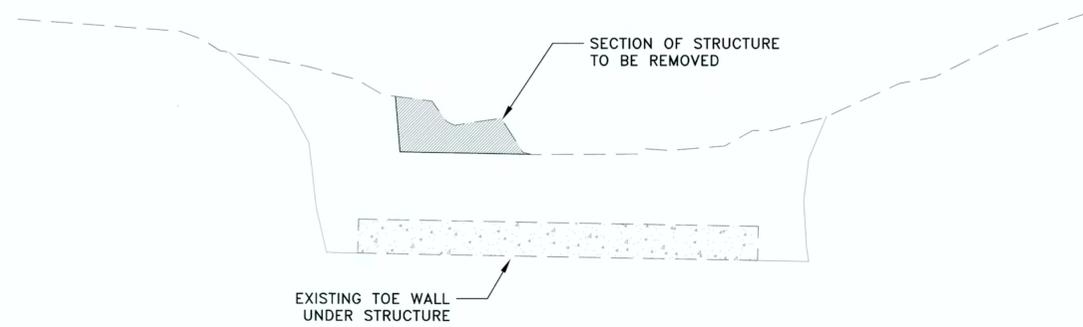
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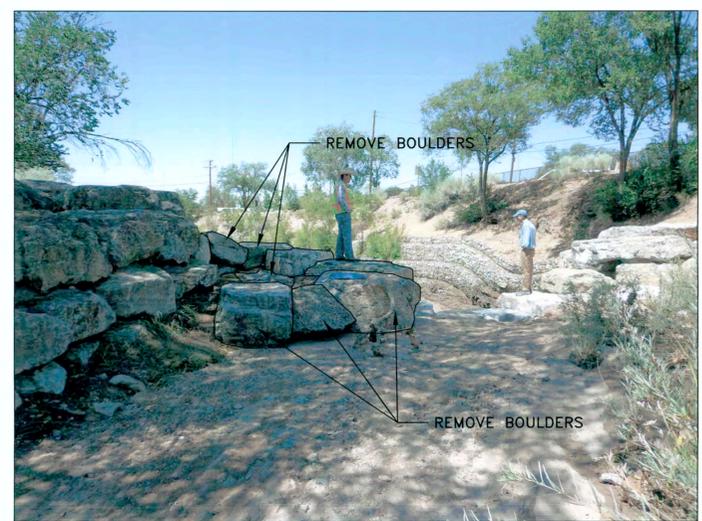


PLAN G
SCALE: 1"=10'

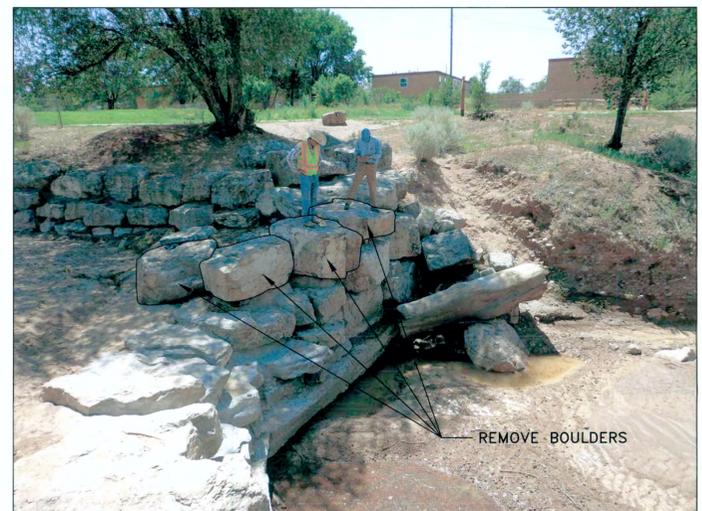


ELEVATION G
SCALE: 1"=10'

- NOTES:**
AREA G
1. THE AREA OF CONSTRUCTION IS ON THE TOP OF THE EXISTING DROP STRUCTURE, ON THE SOUTH SIDE.
 2. THE CONTRACTOR IS TO COORDINATE WITH THE PROJECT MANAGER IN THE FIELD TO VERIFY THE REMOVAL OF EXISTING BOULDERS.
 3. APPROXIMATE QUANTITY OF BOULDERS TO REMOVE 9.
 4. CONTRACTOR TO USE BOULDERS REMOVED FROM STRUCTURE FOR FILL AREA BELOW STRUCTURE (AREA E).
 5. CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE OR DISLODGE EXISTING BOULDERS. ANY BOULDERS NOT IDENTIFIED FOR REMOVAL THAT ARE DAMAGED OR DISLODGED SHALL BE REPLACED AT CONTRACTOR'S OWN EXPENSE.



LOOKING WEST



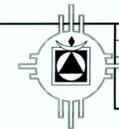
LOOKING SOUTHEAST

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IMPROVEMENTS DETAILS SHEET



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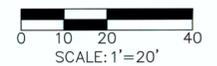
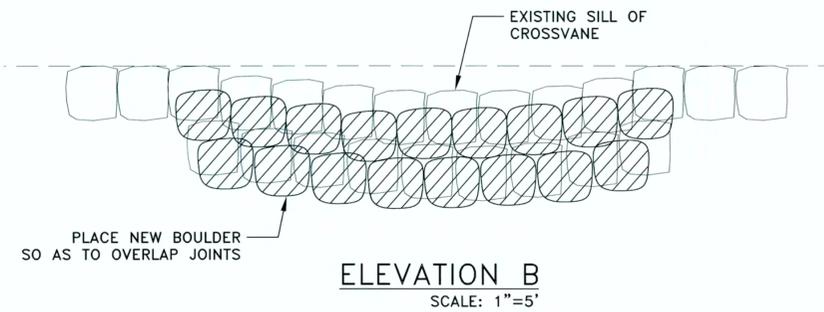
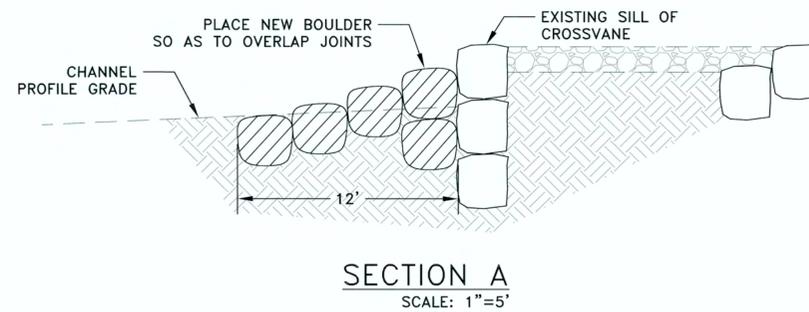
- NOTES:
1. AREA OF CONSTRUCTION IS APPROXIMATELY 32' WIDE x 15' LONG.
 2. CONTRACTOR WILL EXCAVATE APPROXIMATELY 50 CY OF EXISTING MATERIAL AND STOCKPILE FOR LATER USE.
 3. NEW BOULDERS SHALL BE LIMESTONE. EACH BOULDER SHALL HAVE AN APPROXIMATE VOLUME OF 54 CUBIC FEET AND NO DIMENSION SHALL BE LESS THAN 3'. BOULDERS SHOWN ARE NOT DRAWN TO SCALE.
 4. NEW BOULDERS SHALL BE PLACED IN A STAGGERED PATTERN SO THAT NO TWO JOINTS LINE UP. CONTRACTOR SHALL CHINK THE JOINTS WITH SMALLER ROCKS TO STABILIZE THE STRUCTURE.
 5. SEE SHEET 5-1 FOR DETAILS ON BOULDER PLACEMENT.
 6. NEW BOULDERS ARE TO BE BURIED UP TO THE CHANNEL GRADE USING STOCKPILED MATERIAL. HAUL OF EXCESS MATERIAL FROM THE SITE SHALL BE INCIDENTAL TO THE PROJECT.
 7. VOLUME OF BOULDERS IS APPROXIMATELY 45 CY.

CONTRACTOR SHALL TAKE CARE NOT TO DISTURB, DISLodge OR DAMAGE BOULDERS IN EXISTING CROSSVANE STRUCTURE. ANY BOULDERS THAT ARE DISLodgeD AND/OR DAMAGED SHALL BE REPLACED AT CONTRACTOR'S OWN EXPENSE.

CONTRACTOR SHALL FLAG OR FENCE WORK AREA AND PROTECT EXISTING VEGETATION OUTSIDE AREA REQUIRED FOR EXCAVATION AND PLACEMENT OF WORK. PROTECTION OF EXISTING VEGETATION IS INCIDENTAL TO THE PROJECT.



SCOUR PROTECTION BELOW EXISTING CROSSVANE
SEE DETAILS, THIS SHEET.

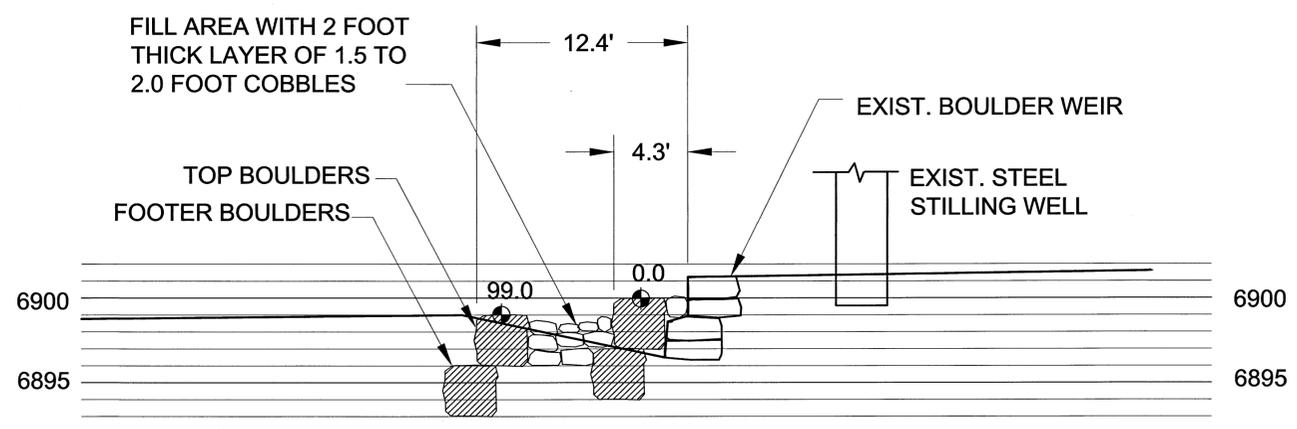
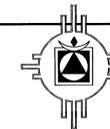


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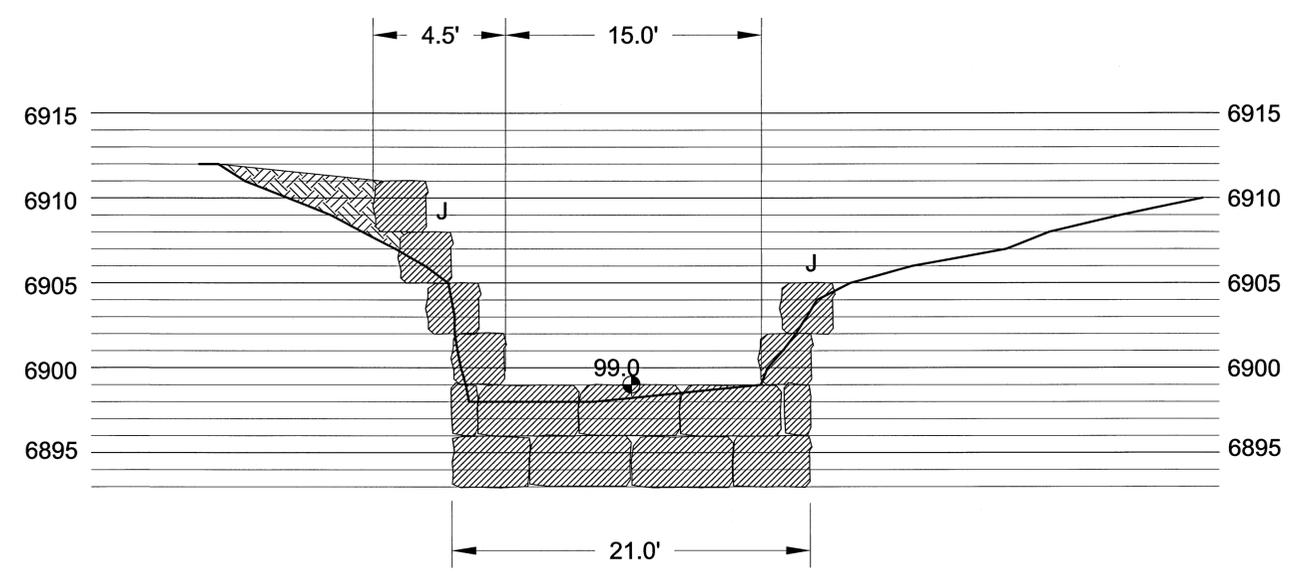


CITY OF SANTA FE
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SANTA FE RIVER IMPROVEMENTS
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Raymond J. Smith



PROFILE H
SCALE: 1"=10'



SECTION I
SCALE: 1"=10'

NOTES:
AREA H
1. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS CAREFULLY TO AVOID DISTURBING THE EXISTING BOULDER DROP STRUCTURE OR THE STILLING WELL AND GAUGE HOUSE.

AREA I
1. THE AREA OF CONSTRUCTION IS APPROXIMATELY 15' WIDE x 20' LONG.
2. CONTRACTOR SHALL CONSTRUCT A NEW DROP STRUCTURE BELOW THE EXISTING.
3. STAGGER BOULDERS TO OFFSET JOINTS.
4. SEE SHEET 5-1 FOR DETAILS ON PLACEMENT OF BOULDERS.
5. BOULDERS SHALL BE LIMESTONE, RECTANGULAR IN SHAPE AND A MINIMUM OF 54 cf. NO DIMENSION SHALL BE LESS THAN 3'.
6. APPROXIMATE VOLUME OF BOULDERS 22 CY.
7. RIPRAP AND SMALL BOULDERS OF D50 SIZE 1.5' SHALL BE PLACED TO CHINK GAPS BETWEEN LARGE BOULDERS AND ARMOUR PLUNGE POOL AREA WITH A MINIMUM THICKNESS OF 2'.
8. APPROXIMATE VOLUME OF RIPRAP 13 CY.

AREA J
1. THE AREA OF CONSTRUCTION IS APPROXIMATELY 41' LONG x 8' WIDE x 16' TALL ON THE SOUTH SIDE AND APPROXIMATELY 20' LONG x 5' WIDE x 12' TALL ON THE NORTH SIDE.
2. THE CONTRACTOR SHALL CONSTRUCT A STEPPED WALL OUT OF LIMESTONE BOULDERS.
3. BOULDERS SHALL BE RECTANGULAR IN SHAPE WITH A MINIMUM VOLUME OF 24 cf. NO DIMENSION SHALL BE LESS THAN 2'.
4. APPROXIMATE VOLUME OF BOULDERS 108 CY.

CONTRACTOR SHALL TAKE CARE NOT TO DISTURB, DISLodge OR DAMAGE BOULDERS IN EXISTING CROSSVANE STRUCTURE. ANY BOULDERS THAT ARE DISLODGED AND/OR DAMAGED SHALL BE REPLACED AT CONTRACTOR'S OWN EXPENSE.

CONTRACTOR SHALL FLAG OR FENCE WORK AREA AND PROTECT EXISTING VEGETATION OUTSIDE AREA REQUIRED FOR EXCAVATION AND PLACEMENT OF WORK. PROTECTION OF EXISTING VEGETATION IS INCIDENTAL TO THE PROJECT.

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SANTA FE RIVER IMPROVEMENTS
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IMPROVEMENTS DETAILS SHEET

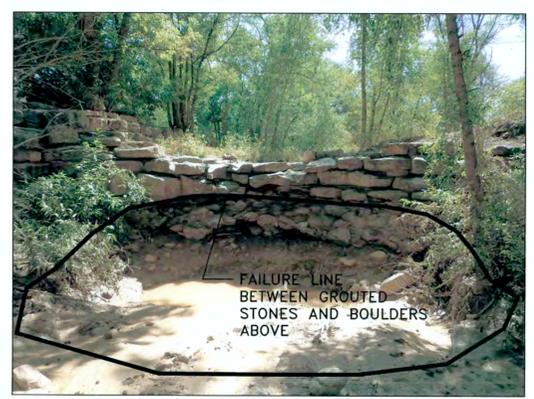
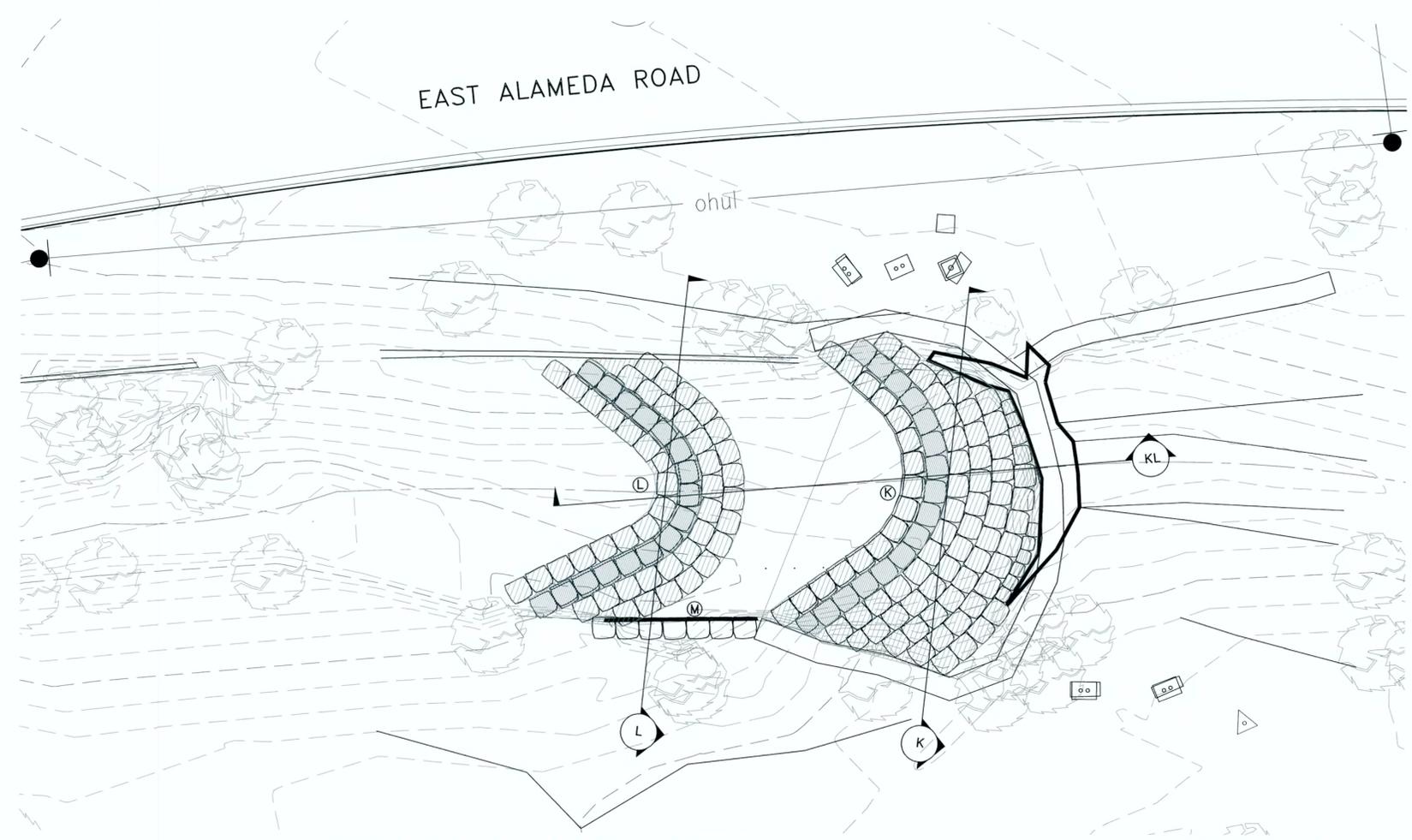


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CITY OF SANTA FE CAPITAL IMPROVEMENT PROJECT NO.		SHEET NO.
412A		4-1

- BISHOPS GARDEN DIVERSION LOCATION**
- (K) FILL OF SCOUR AREA BELOW EXISTING DROP STRUCTURE AND CONSTRUCTION OF A NEW DROP STRUCTURE.
 - (L) CONSTRUCT A SECOND NEW STRUCTURE DOWNSTREAM OF EXISTING
 - (M) CONSTRUCT NEW SECTION OF STONE WALL
1. BOULDERS NOT DRAWN TO SCALE.
 2. CONTRACTOR SHALL PROTECT EXISTING STRUCTURES AND FEATURES INCLUDING BUT NOT LIMITED TO DROP STRUCTURE, STONE WALLS, ACEQUIA AND UTILITIES. CONTRACTOR SHALL REPAIR AT HIS OWN EXPENSE ANY EXISTING FEATURES THAT ARE DAMAGED.
 3. TOTAL DISTURBED AREA = ±1,250 sf.



K - FILL SCOUR AREA BELOW EXISTING DROP STRUCTURE. SEE SHEET 4-2 FOR DETAILS.

NOTE:
EXISTING STRUCTURE SHOWS A FAILURE LINE THAT REPRESENTS WHERE GROUDED STONES ARE COMING AWAY FROM THE STONES ABOVE. CONTRACTOR SHALL PLACE FLOWABLE FILL AGAINST EXISTING STRUCTURE AND PLACE BOULDERS FOR NEW STRUCTURE TO COVER EXISTING GROUDED STONES SO AS TO COVER THIS FAILURE LINE.

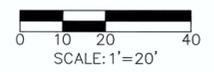


L - CONSTRUCT NEW STRUCTURE DOWNSTREAM OF EXISTING. SEE SHEET 4-2 FOR DETAILS.



M - CONSTRUCT NEW SECTION OF STONE WALL. SEE SHEET 4-2 FOR DETAILS.

*BOULDERS NOT DRAWN TO SCALE

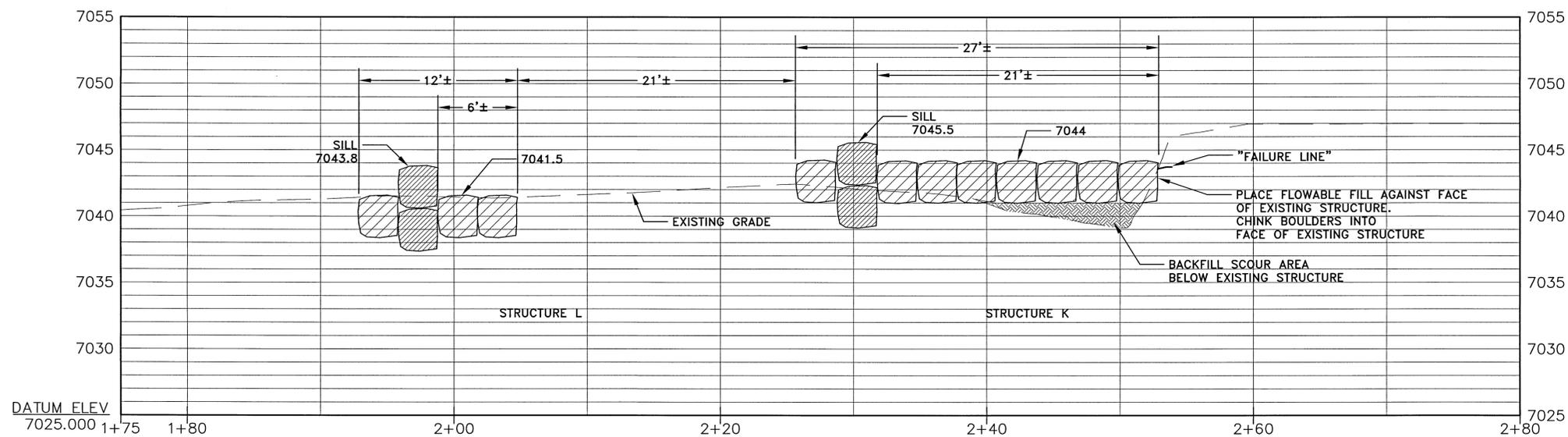
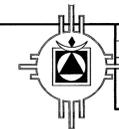


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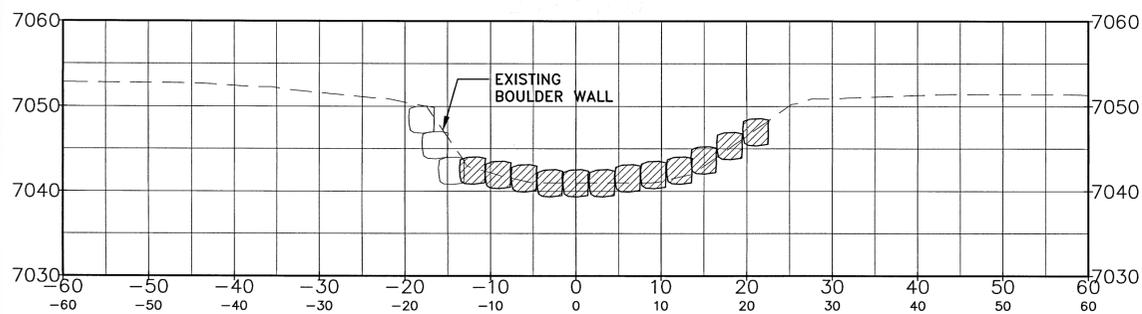


CITY OF SANTA FE
ENGINEERING DIVISION
SANTA FE RIVER IMPROVEMENTS
BISHOPS GARDEN DIVERSION
IMPROVEMENTS PLAN SHEET

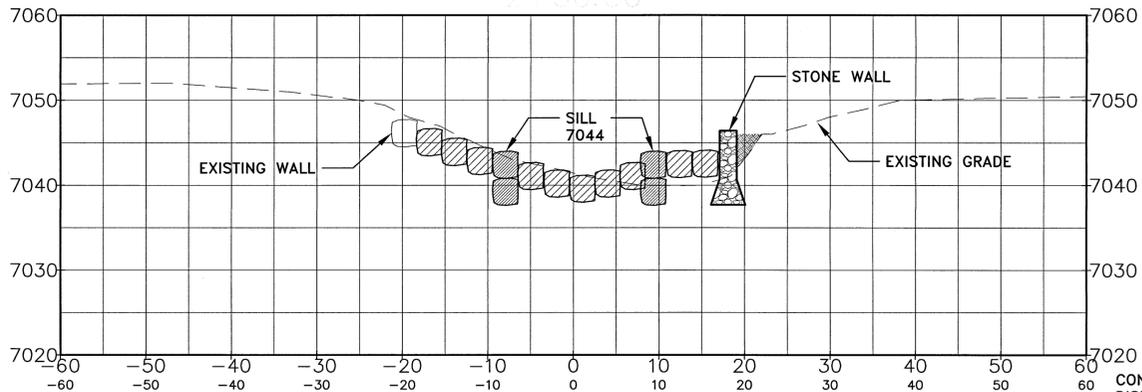
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 City of Santa Fe, Santa Fe, NM
 City Engineer: Raymond J. Gannett, P.E. No. 18738
 City Engineer: Raymond J. Gannett, P.E. No. 18738



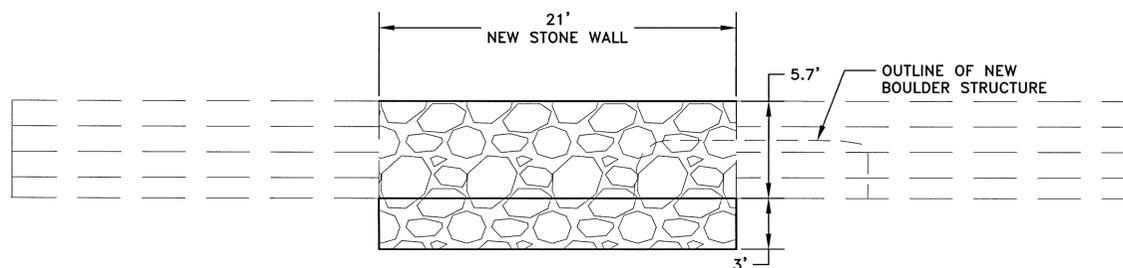
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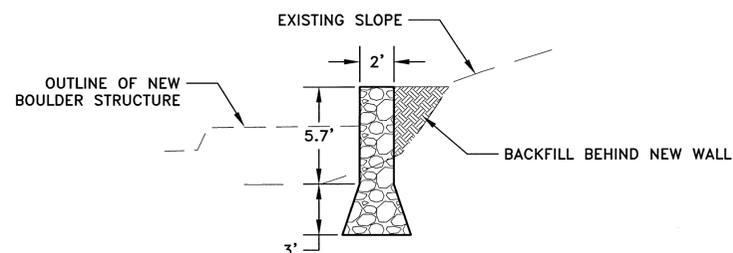
SECTION (K)
SCALE: 1"=10'



SECTION (L)
SCALE: 1"=10'



ELEVATION (M)
SCALE: 1"=10'



SECTION (M)
SCALE: 1"=10'

- NOTES:
- AREA K
1. THE AREA OF CONSTRUCTION IS APPROXIMATELY 20'LONG x 37'WIDE.
 2. THE CONTRACTOR SHALL BACKFILL THE AREA BELOW THE EXISTING STRUCTURE WITH APPROXIMATELY 12 CY OF FILL MATERIAL.
 3. CONTRACTOR WILL CONSTRUCT A NEW DROP STRUCTURE BELOW THE EXISTING ONE. CONTRACTOR SHALL COORDINATE FINAL ELEVATION FOR TOP OF STRUCTURE WITH CITY PROJECT MANAGER.
 4. STAGGER BOULDERS TO OFFSET JOINTS.
 5. SEE SHEET 5-1 FOR DETAILS ON BOULDER PLACEMENT.
 6. BOULDERS SHALL BE LIMESTONE, CIRCULAR IN SHAPE AND HAVE A MINIMUM VOLUME OF 54 CF. NO DIMENSION SHALL BE LESS THAN 3'.
 7. APPROXIMATE VOLUME OF BOULDERS 135 CY.
- AREA L
1. THE AREA OF CONSTRUCTION IS APPROXIMATELY 12'LONG x 37'WIDE.
 2. CONTRACTOR SHALL CONSTRUCT A SECOND NEW DROP STRUCTURE BELOW THE FIRST.
 3. STAGGER BOULDERS TO OFFSET JOINTS.
 4. SEE SHEET 5-1 FOR DETAILS ON BOULDER PLACEMENT.
 5. APPROXIMATE VOLUME OF BOULDERS FOR DROP STRUCTURE 95 CY.
 6. BOULDERS SHALL BE LIMESTONE, CIRCULAR IN SHAPE AND HAVE A MINIMUM VOLUME OF 54 CF. NO DIMENSION SHALL BE LESS THAN 3'.

- AREA M
1. THE AREA OF CONSTRUCTION IS APPROXIMATELY 17'LONG x 3'WIDE x 6'TALL.
 2. THE CONTRACTOR SHALL CONSTRUCT A GROUTED LIMESTONE WALL BETWEEN THE TWO NEW DROP STRUCTURES. GROUT SHALL BE INCIDENTAL TO CONSTRUCTION OF THE WALL AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.
 3. GROUT SHALL BE SET BACK 1"-2" FROM FACE OF WALL SO THAT IT IS NOT VISIBLE.
 4. CONTRACTOR SHALL APPROXIMATE THE SIZE, SHAPE AND CONSTRUCTION OF EXISTING ROCK WALL.
 5. BOULDERS SHALL BE BLOCK SHAPED, HAVE ONE FLAT FACE AND WILL VARY IN DIAMETER FROM 8" MINIMUM TO 24" MAXIMUM.
 6. APPROXIMATE VOLUME OF ROCK FOR WALL 14 CY.

CONTRACTOR SHALL TAKE CARE NOT TO DISTURB, DISLodge OR DAMAGE BOULDERS IN EXISTING CROSSVANE STRUCTURE. ANY BOULDERS THAT ARE DISLODGED AND/OR DAMAGED SHALL BE REPLACED AT CONTRACTOR'S OWN EXPENSE.

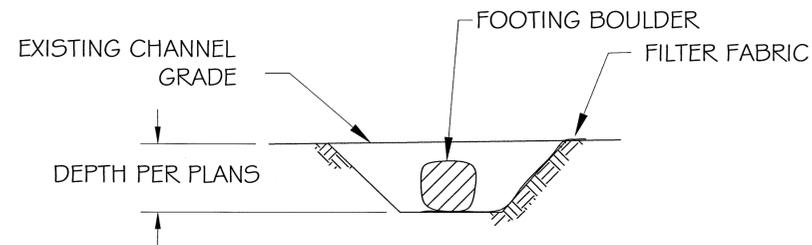
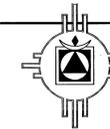
CONTRACTOR SHALL FLAG OR FENCE WORK AREA AND PROTECT EXISTING VEGETATION OUTSIDE AREA REQUIRED FOR EXCAVATION AND PLACEMENT OF WORK. PROTECTION OF EXISTING VEGETATION IS INCIDENTAL TO THE PROJECT.

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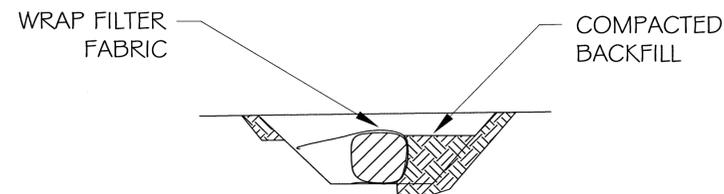
CITY OF SANTA FE
ENGINEERING DIVISION
SANTA FE RIVER IMPROVEMENTS
BISHOPS GARDEN DIVERSION
IMPROVEMENTS DETAILS SHEET



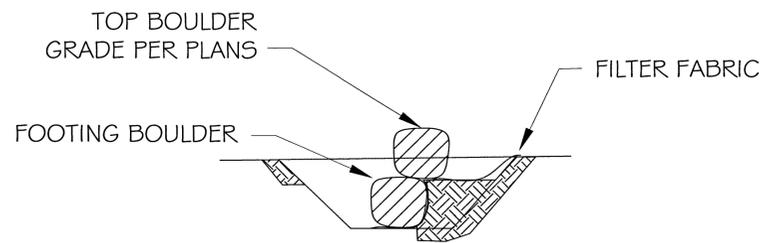
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Raymond J. Smith



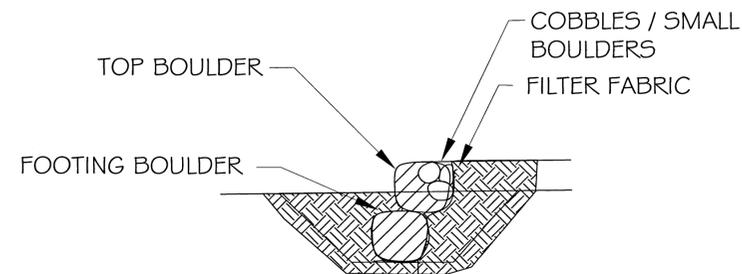
1) EXCAVATE TO FOOTING DEPTH SPECIFIED. LAY IN FILTER FABRIC AND PLACE FOOTER BOULDER. BOULDERS MAY BE BEDDED ON UP TO 4 IN. OF SAND OR GRAVEL ON TOP OF FABRIC TO PREVENT TEARING.



2) PULL FABRIC OVER BOULDERS. BACKFILL AND COMPACT TO 95% (ASTMD-1557) BEHIND BOULDERS.



3) LAY FABRIC BACK OVER BACKFILL. PLACE TOP COURSE OF BOULDERS SUCH THAT $\frac{2}{3}$ TO $\frac{3}{4}$ OF TOP BOULDER RESTS FIRMLY ON FOOTING BOULDERS AND $\frac{1}{4}$ RESTS ON COMPACTED BACKFILL.



4) PLACE SMALL BOULDERS OR COBBLES TO CHINK GAPS BETWEEN LARGE BOULDERS TO FORM UNIFORM UPSTREAM FACE. PULL FILTER FABRIC UP AGAINST BACK OF BOULDERS. BACKFILL, COMPACT, AND CUT OFF EXCESS FABRIC 2 TO 4 INCHES BELOW SURFACE.

BOULDER PLACEMENT PROCESS
NO SCALE

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REVISIONS (OR CHANGE NOTICES)

CITY OF SANTA FE
ENGINEERING DIVISION
SANTA FE RIVER IMPROVEMENTS
MISCELLANEOUS DETAILS