

CITY OF ROUND ROCK

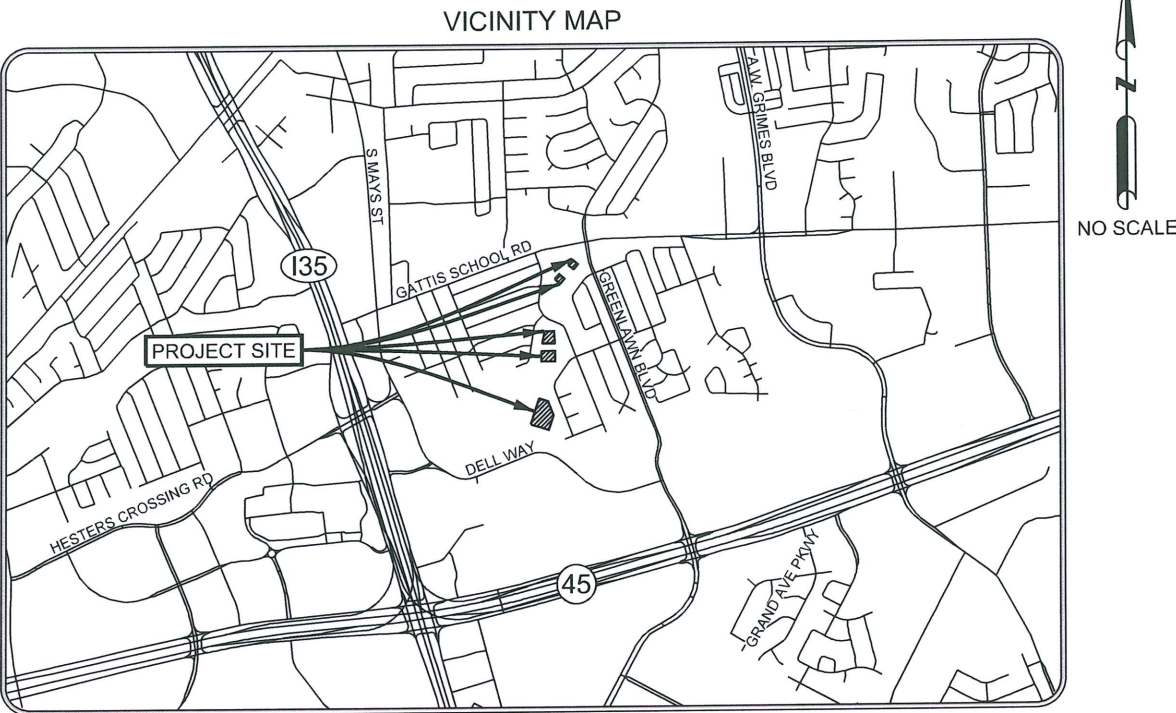
KENSINGTON CHANNEL IMPROVEMENTS

NOVEMBER 21, 2016

100% PLANS

INDEX OF SHEETS

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2. GENERAL NOTES
3. SITE LAYOUT / EROSION & SEDIMENTATION CONTROL
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10. CROSS SECTIONS 1 OF 2
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12. DETAILS 1 OF 2
13. DETAILS 2 OF 2



PREPARED FOR:



PREPARED BY:



1120 S. Capital of Texas Highway
CityView 2, Suite 100
Austin, Texas 78746
P: 512-338-1704 F: 512-338-1784
TBPE Firm #6535
www.kfriesse.com

REVISIONS RECORD				
REV. NO.	DESCRIPTION	BY	SHT. NO.	REVISION DATE

I, CHAD M. CORMACK, P.E., DO HEREBY CERTIFY THAT THE PUBLIC WORKS AND DRAINAGE IMPROVEMENTS DESCRIBED HEREIN HAVE BEEN DESIGNED IN COMPLIANCE WITH THE STORMWATER DRAINAGE POLICY ADOPTED BY THE CITY OF ROUND ROCK, TEXAS.

Chad M. Cormack

CHAD M. CORMACK, P.E.
PROJECT ENGINEER

11/21/2016
DATE



ALL RESPONSIBILITY OF THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN ACCEPTING THESE PLANS, THE CITY OF ROUND ROCK MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER

ACCEPTED FOR CONSTRUCTION:

Federico Sanchez 11/21/16
CITY OF ROUND ROCK, TEXAS
UTILITIES AND ENVIRONMENTAL
SERVICES DEPARTMENT
DATE

COORDINATES:

PROJECT COORDINATES SHOWN HEREON ARE SURFACE VALUES BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NAD83 WHICH IS BASED ON LEICA'S CENTRAL TEXAS SMARTNET NETWORK. THE COMBINED SCALE FACTOR FOR THIS PROJECT IS 0.99988506.

THIS PLAN SET IS FULL SIZE AT 11" X 17".

11/21/2016
0412_C1_NOTES.dgn

GENERAL NOTES

1. All construction shall be in accordance with the City of Round Rock Standard Specifications Manual except where modifications or other specifications are called for in these plans.
2. Any existing utilities, pavement, curbs, sidewalks, structures, trees, etc., not planned for destruction or removal that are damaged or removed shall be repaired or replaced at Contractor's expense.
3. The Contractor shall verify all depths and locations of existing utilities prior to any construction. Any discrepancies with the construction plans found in the field shall be brought immediately to the attention of the Engineer who shall be responsible for revising the plans as appropriate.
4. Manhole frames, covers, valves, cleanouts, etc. shall be raised to finished grade prior to final paving construction.
5. The Contractor shall give the City of Round Rock 48 hour notice before beginning each phase of construction. Contact the assigned Project Manager.
6. All areas disturbed or exposed during construction shall be revegetated in accordance with the plans and specifications. Where not specifically identified, revegetation of all disturbed or exposed areas shall consist of sodding or seeding, at the Contractor's option.
7. Prior to any construction, a preconstruction conference shall be held between the City of Round Rock, the Engineer, the Contractor, other utility companies, any affected parties and any other entity the City or Engineer may require.
8. The Contractor shall keep accurate records of all construction that deviates from the plans. The Contractor shall furnish the City of Round Rock accurate "As-Built" notated drawings following completion of all construction. These "As-Built" drawings shall meet with the satisfaction of the City prior to final acceptance.
10. When construction is being carried out within easements, the Contractor shall confine his work to within the permanent and any temporary easements. Prior to final acceptance, the Contractor shall be responsible for removing all trash and debris within the permanent and temporary easements. Clean-up shall be to the satisfaction of the City.
11. Prior to any construction, the Contractor shall apply for and secure all proper permits from the appropriate authorities.
12. All testing shall be done by an independent laboratory at the City's expense unless specified otherwise. Any retesting shall be paid for by the Contractor. A City Inspector shall be present during all tests. Testing shall be coordinated with the City Inspector and he shall be given a minimum of 24 hour notice prior to any testing.
13. Traffic control in accordance with a designated Traffic Control Plan shall be placed and maintained as necessary during construction for workers and public safety.
14. Available benchmarks (NAVD '88 Datum) that may be utilized for the construction of this project are shown on sheets and described as follows:

BENCHMARK #1 (SITE BM 23898-2)
(SET) CUT SQUARE ON CURB INLET
N 10151943.84
E 3135954.33
ELEV. 781.12' (NAVD88)

TRENCH SAFETY NOTES:

1. In accordance with the Laws of the State of Texas and the U. S. Occupational Safety and Health Administration regulations, all trenches over 5 feet in depth in either hard and compact or soft and unstable soil shall be sloped, shored, sheeted, braced or otherwise supported. Furthermore, all trenches less than 5 feet in depth shall also be effectively protected when hazardous ground movement may be expected.
2. In accordance with the U. S. Occupational Safety and Health Administration regulations, when persons are in trenches 4 feet deep or more, adequate means of exit, such as a ladder or steps, must be provided and located so as to require no more than 25 feet of lateral travel.
3. If trench safety system details were not provided in the plans because trenches were anticipated to be less than 5 feet in depth and during construction it is found that trenches are in fact 5 feet or more in depth or trenches less than 5 feet in depth are in an area where hazardous ground movement is expected, all construction shall cease, the trenched area shall be barricaded and the City notified immediately. Construction shall not resume until appropriate trench safety system details, as designed by a professional engineer, are retained.

TRAFFIC MARKING NOTES

1. Any methods, street markings and signage necessary for warning motorists, warning pedestrians or diverting traffic during construction shall conform to the Texas Manual of Uniform Traffic Control Devices for Streets and Highways, latest edition.
2. All pavement markings, markers, paint, traffic buttons, traffic controls and signs shall be installed in accordance with the Texas Department of Transportation Standard Specifications for Construction of Highways, Streets and Bridges and, the Texas Manual of Uniform Traffic Control Devices for Streets and Highways, latest editions.

EROSION AND SEDIMENTATION CONTROL

1. Erosion control measures, site work and restoration work shall be in accordance with the City of Round Rock Erosion and Sedimentation Control Ordinance.
2. All disturbed unpaved areas and slopes shall be sodded or seeded with approved grass, grass mixtures or ground cover suitable to the area and season in which they are applied and in accordance with the plans.
3. Silt fences, rock berms, sedimentation basins and similarly recognized techniques and materials shall be employed during construction to prevent point source sedimentation loading of downstream facilities. Such installation shall be regularly inspected by the City of Round Rock for effectiveness. Additional measures may be required if, in the opinion of the City, they are warranted.
4. All temporary erosion control measures shall not be removed until final inspection and approval of the project by the City. It shall be the responsibility of the Contractor to maintain all temporary erosion control structures and to remove each structure as approved by the City.
5. All mud, dirt, rocks, debris, etc., spilled, tracked or otherwise deposited on existing paved streets, drives and areas used by the public shall be cleaned up immediately.

TREE LIST		
TAG NO.	DESCRIPTION	REMOVED
2401	9" ELM	
2402	8" ELM	
2403	12" ELM	
2404	15" PINE	
2405	13" PINE	
2406	20" HACKBERRY	
2407	12" CYPRESS	
2408	13" CYPRESS	
2409	9" CYPRESS	X
2410	8" CYPRESS	
2411	14" CYPRESS	
12532	9" WILLOW	



K FRIESE & ASSOCIATES, INC.
1120 S. CAPITAL OF TEXAS HWY, II-100, AUSTIN, TX 78746

CITY OF ROUND ROCK
KENSINGTON CHANNEL IMPROVEMENTS

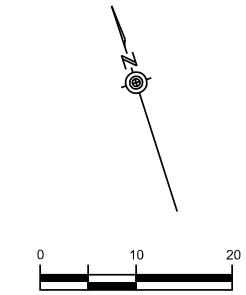
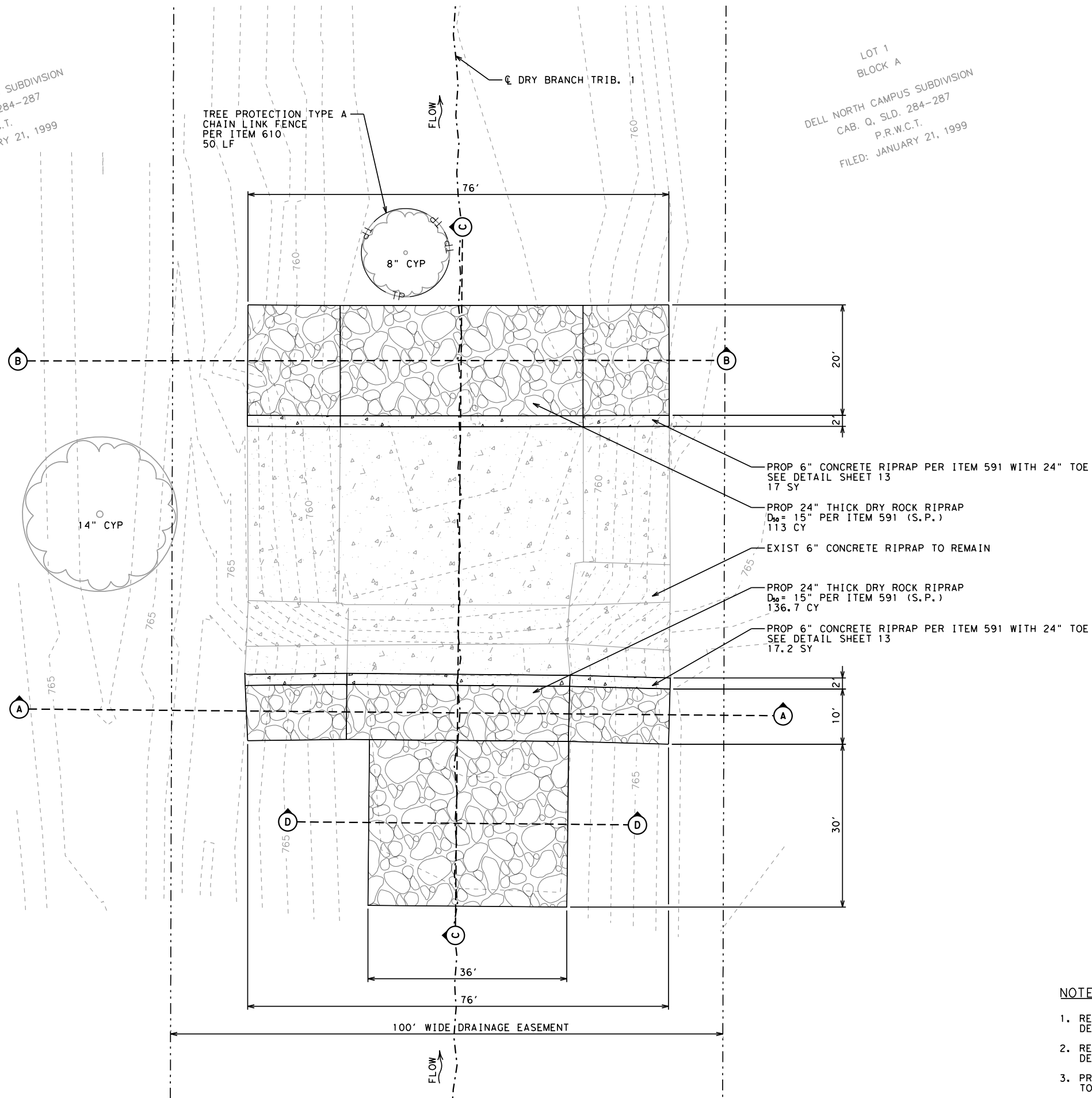
GENERAL NOTES



CITY OF ROUND ROCK	
SCALE	
DATE	11/21/2016
SHEET NUMBER	2 OF 13

11/21/2016
0412 LocA_Plan.dgn

LOT 1
BLOCK A
DELL NORTH CAMPUS SUBDIVISION
CAB. Q. SLD. 284-287
P.R.W.C.T.
FILED: JANUARY 21, 1999



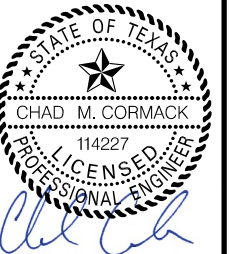
LEGEND

- EXISTING TREE
- EXISTING CONCRETE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPERTY LINE
- EXISTING EASEMENT
- PROPOSED CONCRETE
- PROPOSED ROCK RIPRAP
- FLOW

NOTES

- REFER TO CROSS SECTION LAYOUTS (SHEET 10) FOR DETAILED GRADING INFORMATION.
- REFER TO CROSS SECTION LAYOUT SHEET 1 OF 2 FOR DETAILED SECTION INFORMATION.
- PROPOSED IMPROVEMENTS CREATE NO ADVERSE IMPACT TO 100-YEAR WSEL.

REV. NO.	BY	DATE	REVISION DESCRIPTION

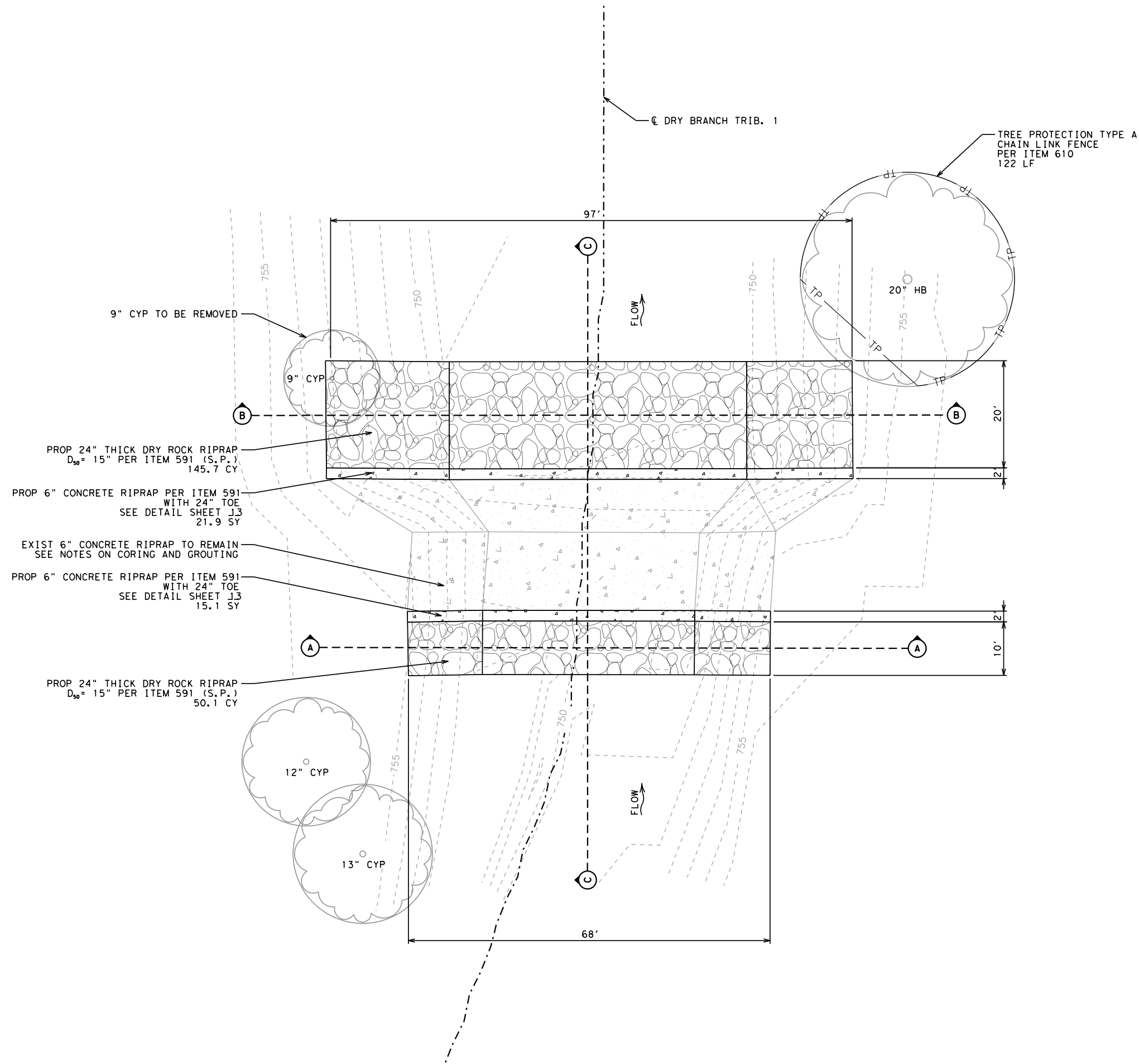


K FRIESE & ASSOCIATES, INC.
1120 S. CAPITAL OF TEXAS HWY, II-100, AUSTIN, TX 78746
CITY OF ROUND ROCK
KENSINGTON CHANNEL IMPROVEMENTS
LOCATION A
PLAN



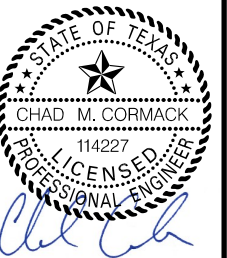
CITY OF ROUND ROCK	
SCALE	1" = 20' (11" X 17")
DATE	11/21/2016
SHEET NUMBER	5 OF 13

11/21/2016
0412 LocB PLAN.dgn



NOTES

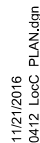
1. THE EXISTING CONCRETE RIPRAP TO REMAIN SHALL BE CORED IN A 10' X 10' GRID. THE CORE SHALL BE INSPECTED FOR VOIDS BY THE ENGINEER.
2. IN LOCATIONS WHERE VOIDS ARE ENCOUNTERED 2 ADDITIONAL CORES SHALL BE PERFORMED 5-FEET ADJACENT TO VOID LOCATION.
3. AT LOCATIONS WHERE VOIDS ARE ENCOUNTERED FILL THE VOID SPACE WITH GROUT AND ROD OR VIBRATE TO ENSURE ALL VOIDS HAVE BEEN FILLED PER ITEM 403 (S.P.).
4. GROUT ALL INSPECTION CORES FLUSH WITH EXISTING APRON SURFACE.
5. ALL CONCRETE RIPRAP AND DRY ROCK RIPRAP SHALL BE PLACED PRIOR TO CORING AND GROUT WORK.
6. REFER TO CROSS SECTION LAYOUT SHEET 1 OF 2 FOR DETAIL SECTION INFORMATION.
7. PROPOSED IMPROVEMENTS CREATE NO ADVERSE IMPACT TO 100-YEAR WSEL.

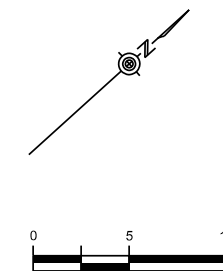
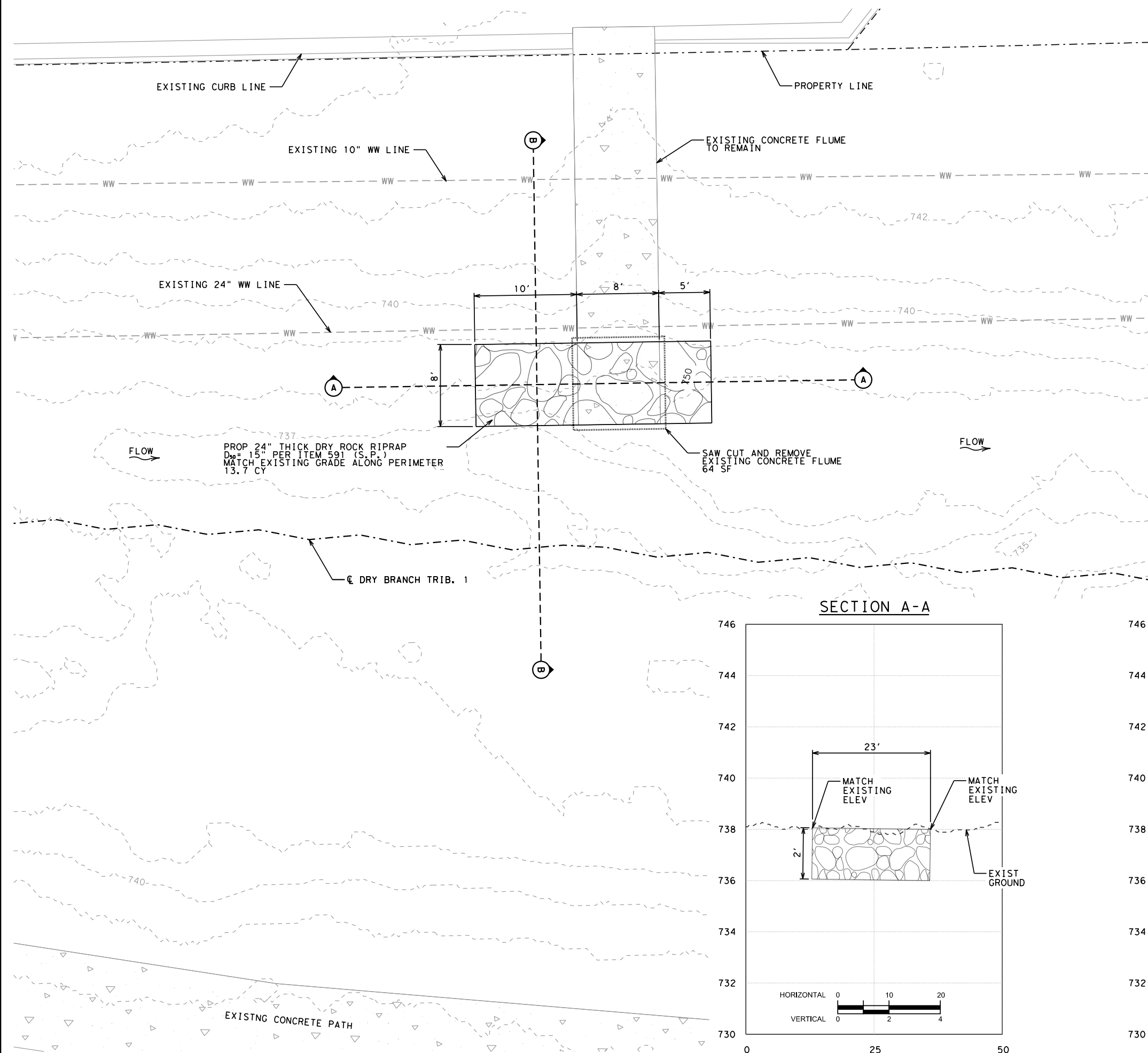


K FRIESE & ASSOCIATES, INC.
1120 S. CAPITAL OF TEXAS HWY, II-100, AUSTIN, TX 78746
CITY OF ROUND ROCK
KENSINGTON CHANNEL IMPROVEMENTS
LOCATION B
PLAN



CITY OF ROUND ROCK	
SCALE	1" = 20' (11" X 17")
DATE	11/21/2016
SHEET NUMBER	6 OF 13

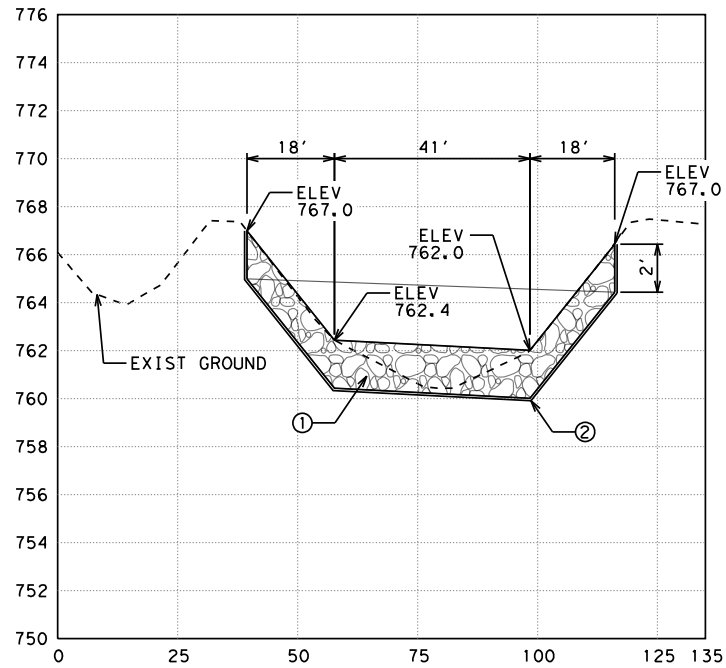




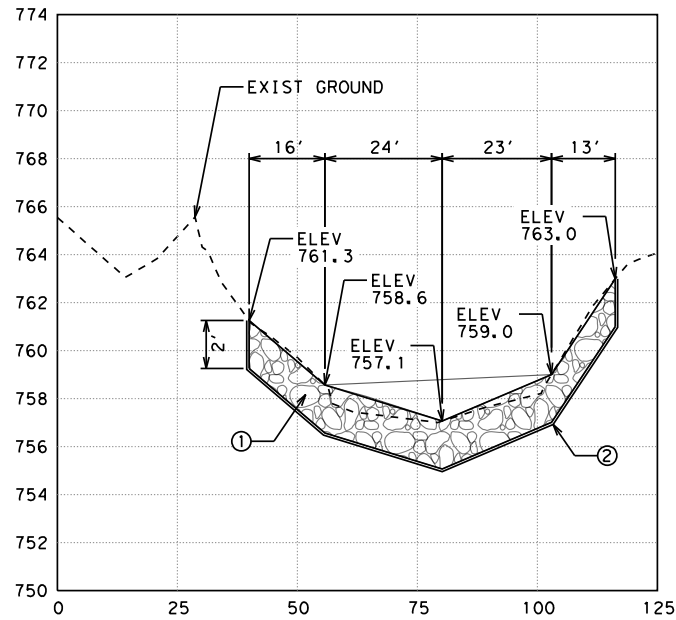
SCALE	VARIES
DATE	11/21/2016
SHEET NUMBER	9 OF 13

LOCATION A

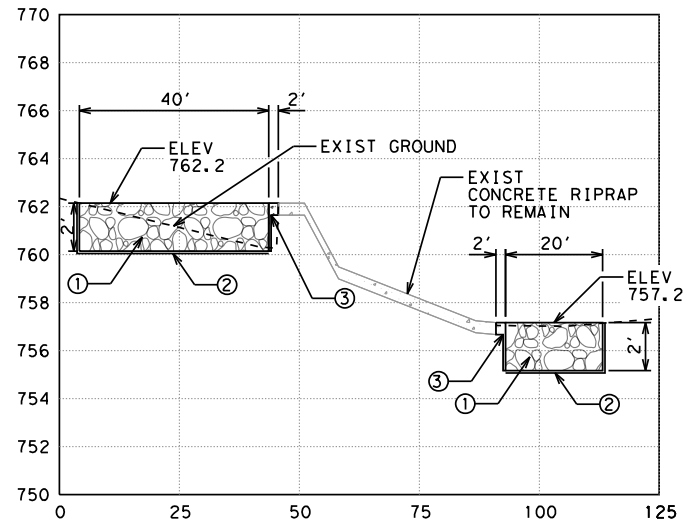
SECTION A-A



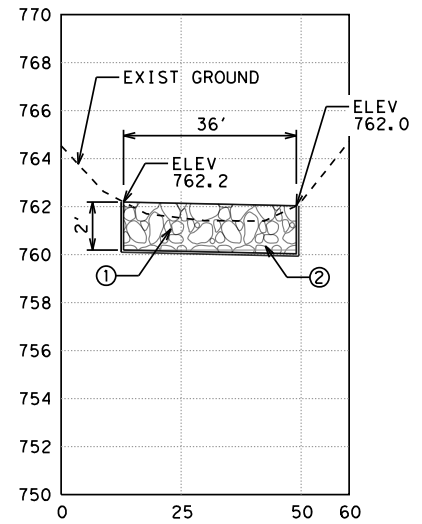
SECTION B-B



SECTION C-C

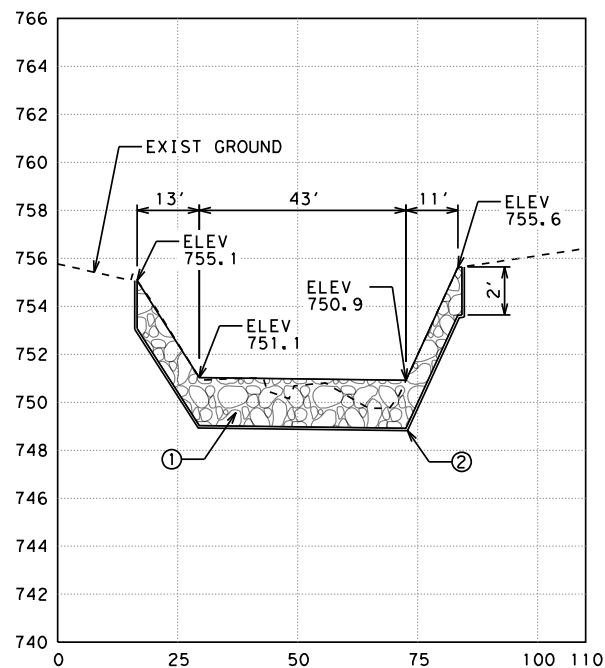


SECTION D-D

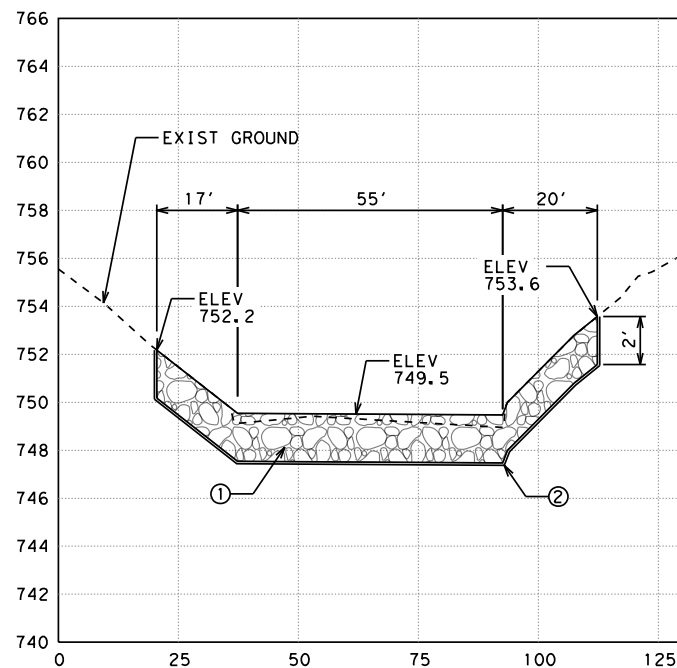


LOCATION B

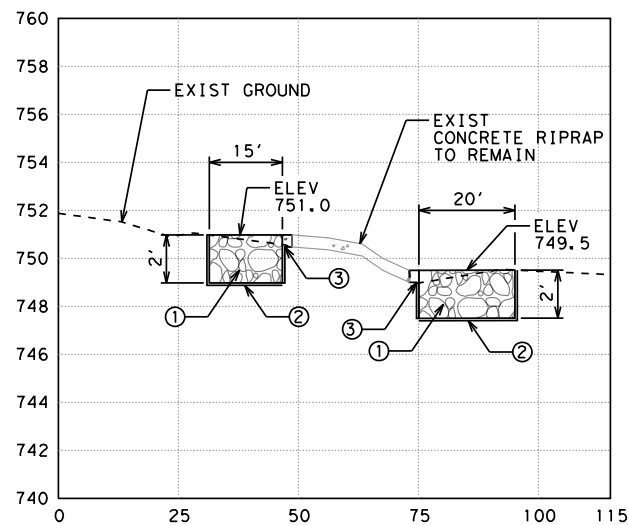
SECTION A-A



SECTION B-B

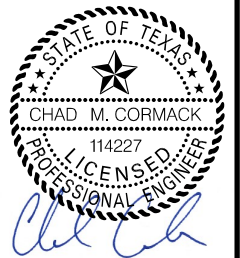


SECTION C-C



NOTES

- ① PROPOSED DRY RIPRAP $D_{50} = 15"$, 24" THICK LAYER PER ITEM 591 (S.P.).
- ② PROPOSED FILTER FABRIC PER ITEM 620.
- ③ PROPOSED 6" CONCRETE RIPRAP WITH 24" TOE PER ITEM 591. SEE DETAIL ON SHEET L3 OF L3.

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K FRIESE & ASSOCIATES, INC.
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CITY OF ROUND ROCK
KENSINGTON CHANNEL IMPROVEMENTS

CROSS SECTIONS
1 OF 2

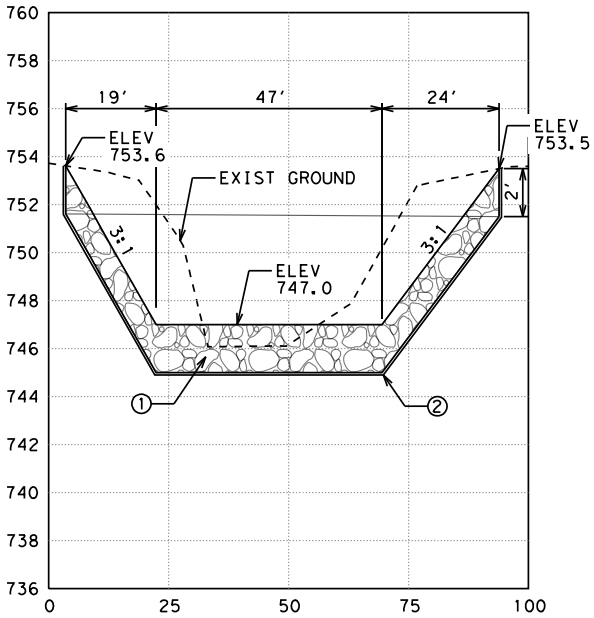


CITY OF ROUND ROCK

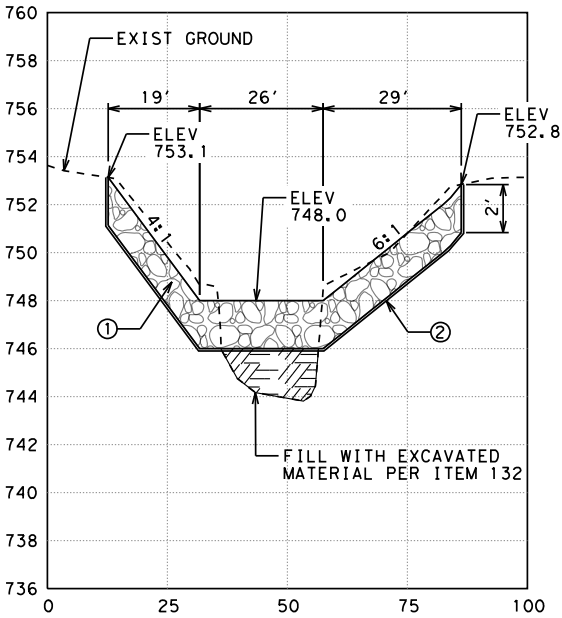
SCALE	1" = 40' H 1" = 8' V
DATE	11/21/2016
SHEET NUMBER	10 OF 13

LOCATION C

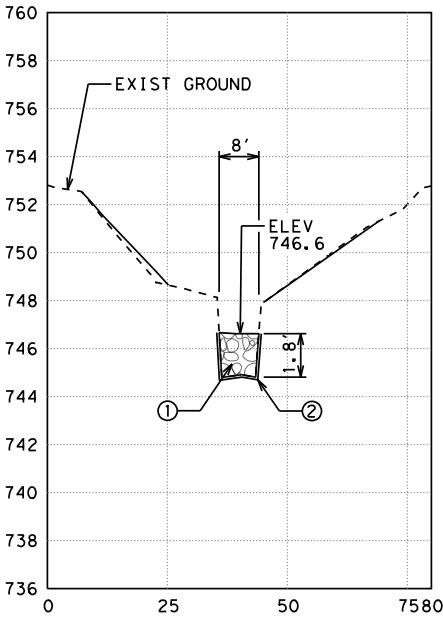
SECTION A-A



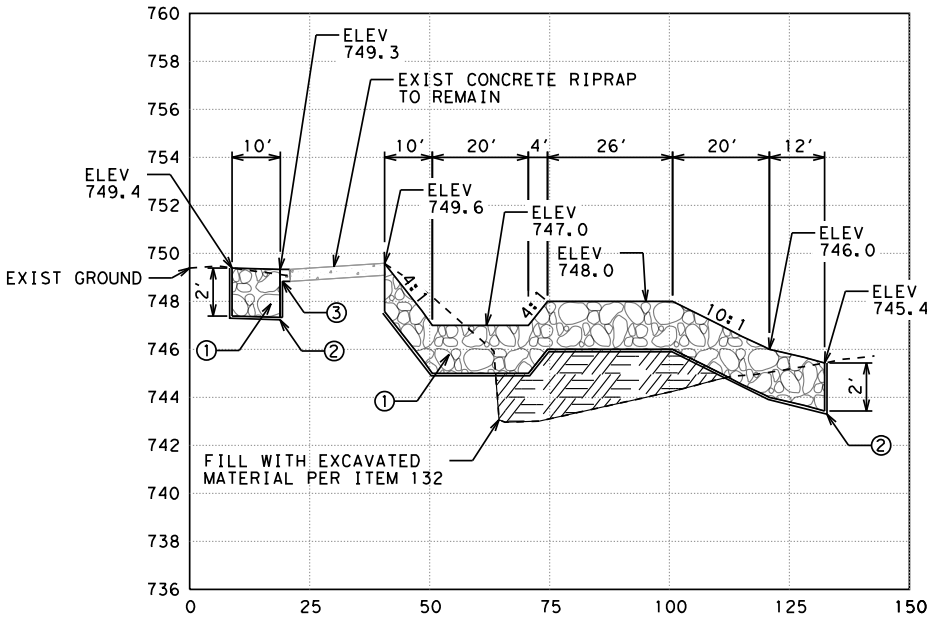
SECTION B-B



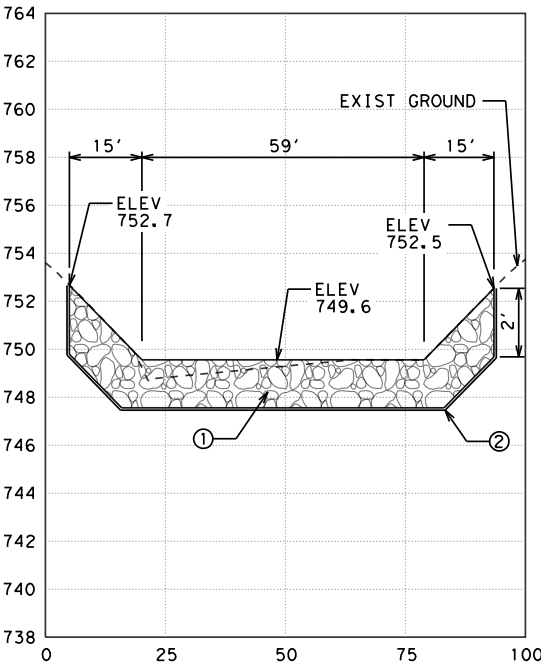
SECTION C-C



SECTION D-D



SECTION E-E



NOTES

- ① PROPOSED DRY RIPRAP D_{50} = 15", 24" THICK LAYER PER ITEM 591 (S.P.).
- ② PROPOSED FILTER FABRIC PER ITEM 620.
- ③ PROPOSED 6" CONCRETE RIPRAP WITH 24" TOE PER ITEM 591. SEE DETAIL ON SHEET L3 OF L3.

REVISION DESCRIPTION	
DATE	
BY	
REV. NO.	
<div><div><div><div><div><div></div><div>STATE OF TEXAS</div></div><div><div></div><div>CHAD M. CORMACK</div></div><div><div></div><div>114227</div></div><div><div></div><div>LICENSED</div></div><div><div></div><div>PROFESSIONAL ENGINEER</div></div></div><div></div></div></div><div><div>K FRIESE & ASSOCIATES, INC.</div><div>1120 S. CAPITAL OF TEXAS HWY, II-100, AUSTIN, TX 78746</div></div><div><div>CITY OF ROUND ROCK</div><div>KENSINGTON CHANNEL IMPROVEMENTS</div></div><div><div>CROSS SECTIONS</div><div>2 OF 2</div></div></div>	
<div><div><div><div><div></div><div>K FRIESE</div></div><div><div></div><div>+ ASSOCIATES</div></div></div><div><div>PUBLIC PROJECT ENGINEERING</div><div>(FIRM # 6535)</div></div></div><div></div></div>	
CITY OF ROUND ROCK	
SCALE	1" = 40' H 1" = 8' V
DATE	11/21/2016
SHEET NUMBER	11 OF 13

- 
- FOUND ROCK, TEXAS
PURPOSE. PASSION. PROSPERITY.



WATERING SCHEDULE
PER SPECIFICATION 602 & 604

DETAILS
2 OF 2



- FOR ASSUMES
APPROPRIATE USE



DATE	11/21/2016
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