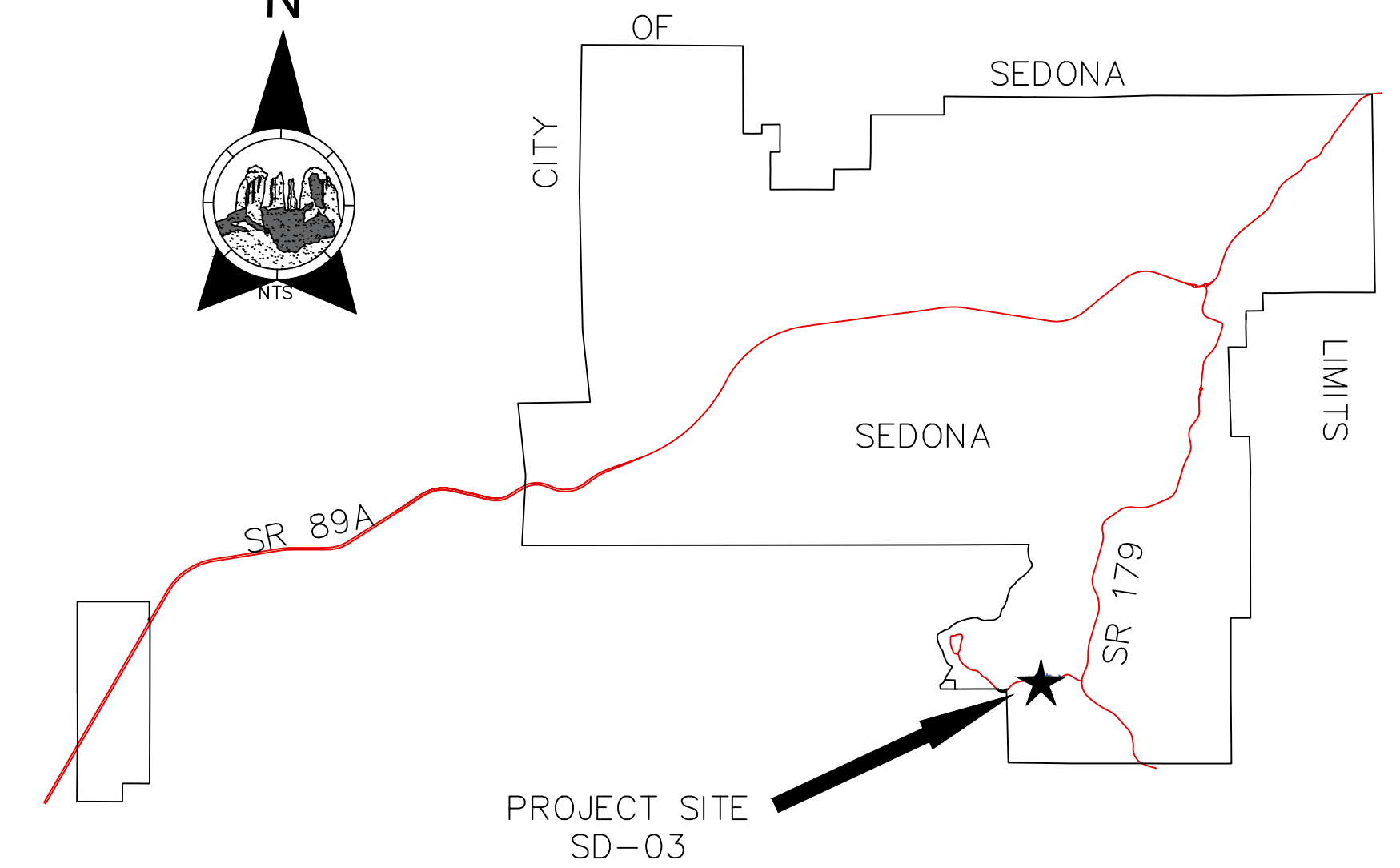
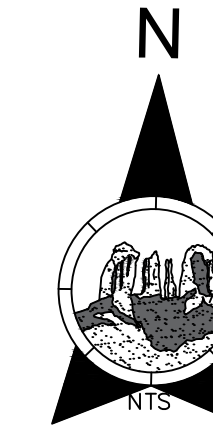




CITY OF SEDONA

SD-03 BACK O' BEYOND ROAD LOW WATER CROSSING IMPROVEMENT PLANS

LOCATED IN A PORTION OF SECTION 25, TOWNSHIP 17 NORTH, RANGE 5 EAST, GILA AND SALT RIVER MERIDIAN, YAVAPAI COUNTY, ARIZONA.



COORDINATE SYSTEM DETAILS

LINEAR UNIT: INTERNATIONAL FOOT
GEODETIC DATUM: NAD 1983 (2011)
VERTICAL DATUM: NAVD 1988 (SEE BELOW)
SYSTEM: STATE PLANE COORDINATE SYSTEM (CITY OF SEDONA)
ZONE: ARIZONA CENTRAL 0202
PROJECTION
TRANSVERSE MERCATOR
LATITUDE OF GRID ORIGIN: 31°00'00" N
LONGITUDE OF CENTRAL MERIDIAN: 111°55'00" W
NORTHING AT GRID ORIGIN: 0,000 FT
EASTING AT CENTRAL MERIDIAN: 700,000 FT
CENTRAL MERIDIAN SCALE FACTOR: 0.99999 (EXACT)

ALL DISTANCES AND BEARINGS SHOWN HEREON ARE NOT GRID VALUES BUT PROJECTED FOR THE PRECEDING COORDINATE SYSTEM DEFINITION. THIS DEFINITION IS SUCH THAT GRID DISTANCES ARE NOT EQUIVALENT TO "GROUND" DISTANCES IN THE PROJECT AREA.

ORTOMETRIC HEIGHTS (ELEVATIONS) WERE TRANSFERRED TO THE SITE FROM POINT "VORTEX" (NGS PID A15637) USING GPS WITH NGS GEOID MODEL "GEOID 12A". ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE PUBLISHED ELEVATION OF THIS STATION.

POINT #4187 FOUND REBAR AND CAP STAMPED "COLTON 27231" (OFF-SITE)
NORTHING: 1392039.107
EASTING: 739897.358
ELEVATION: 4185.029

POINT #4189 FOUND REBAR AND CAP STAMPED "COLTON 27231" (OFF-SITE)
NORTHING: 1392082.227
EASTING: 740080.700
ELEVATION: 4186.622

POINT #4190 FOUND COTTON PICKER SPINDLE (OFF-SITE)
NORTHING: 1391989.707
EASTING: 739906.321
ELEVATION: 4175.733

CONTACT INFORMATION

OWNER CITY OF SEDONA
102 ROADRUNNER DRIVE
SEDONA, ARIZONA 86336
(928) 204-7111
J. ANDY DICKEY, P.E.
ASSISTANT CITY ENGINEER/
DIRECTOR OF PUBLIC WORKS

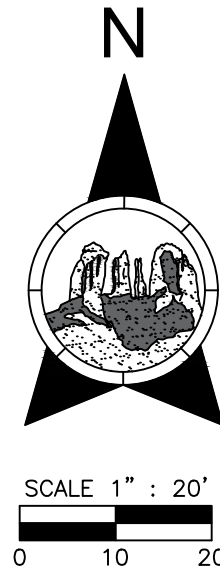
MAYOR SCOTT JABLON

VICE MAYOR HOLLI PLOOG

CITY COUNCIL MELISSA DUNN
BRIAN FULTZ
PETE FURMAN
KATHY KINSELLA
JESSICA WILLIAMSON

CITY MANAGER KAREN OSBURN

ENGINEER SWI AN ARDURRA COMPANY
75 KALLOF PLACE
SEDONA, AZ 86336
(928) 282-1061
JOE LINK, P.E.



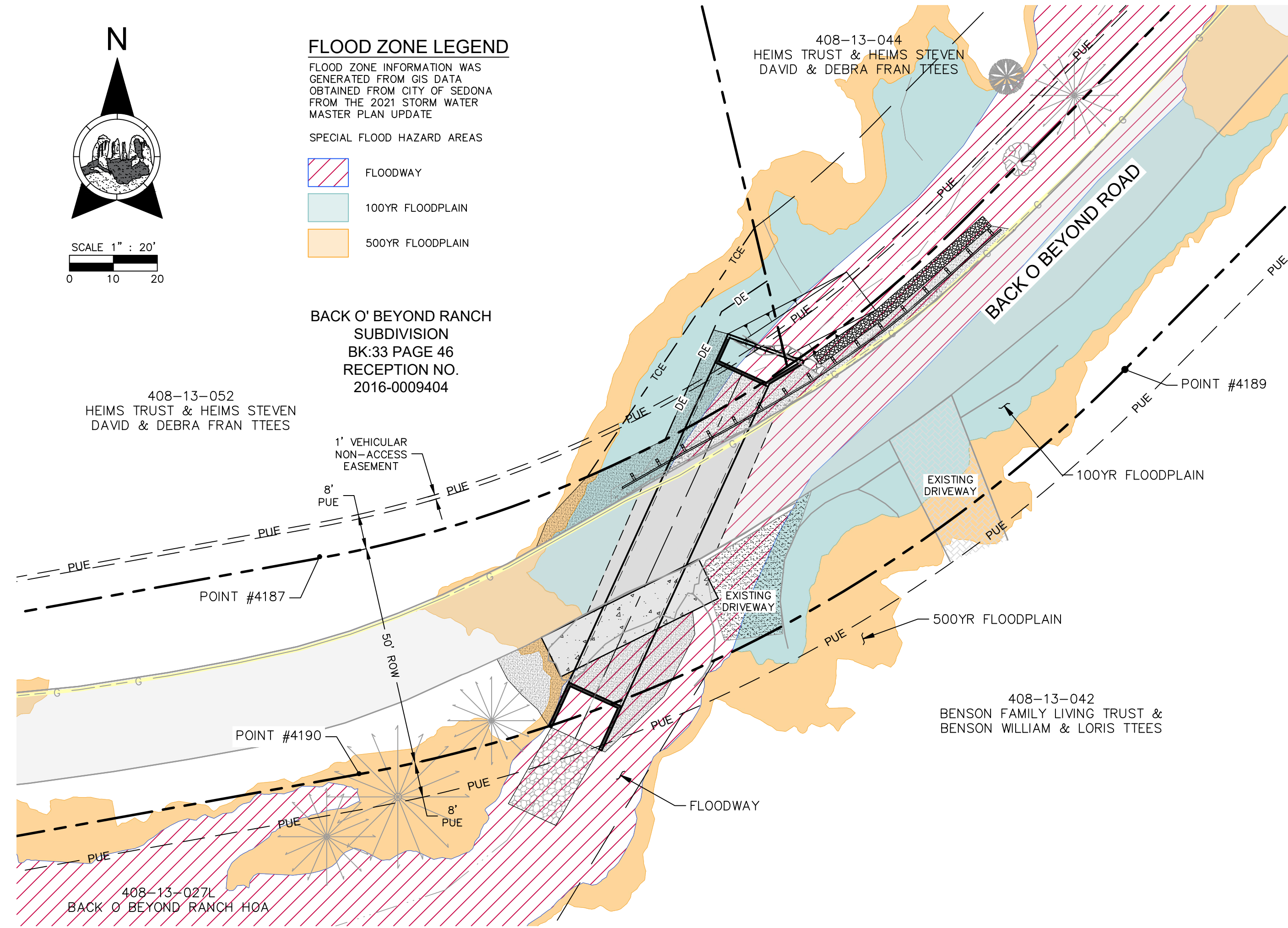
FLOOD ZONE LEGEND

FLOOD ZONE INFORMATION WAS GENERATED FROM GIS DATA OBTAINED FROM CITY OF SEDONA FROM THE 2021 STORM WATER MASTER PLAN UPDATE

SPECIAL FLOOD HAZARD AREAS

- FLOODWAY
- 100YR FLOODPLAIN
- 500YR FLOODPLAIN

BACK O' BEYOND RANCH SUBDIVISION
BK-33 PAGE 46
RECEPTION NO. 2016-0009404



LEGEND

- RIGHT OF WAY BOUNDARY
- RECORD EASEMENTS
- NEW DRAINAGE EASEMENTS
- EXISTING INDEX CONTOURS
- EXISTING INTERMEDIATE CONTOURS
- PROPOSED INDEX CONTOURS
- PROPOSED INTERMEDIATE CONTOURS
- EXISTING FLOWLINE
- GAS LINE BLUESTAKE

- DEMOLITION
- GABION BASKET OR MATRESS
- ASPHALT PAVING
- CONCRETE
- SHOTCRETE
- CMP CORRUGATED METAL PIPE
- DE DRAINAGE EASEMENT
- EL ELEVATION
- FL FLOW LINE
- HDPE HIGH-DENSITY POLYETHYLENE
- ME MATCH EXISTING
- PC POINT OF CURVATURE
- PCC POINT OF COMPOUND CURVATURE
- PT POINT OF TANGENCY
- PUE PUBLIC UTILITY EASEMENT
- SUP SHARED USE PATH

UTILITY COORDINATION BLOCK

UNISOURCE COMPANY REPRESENTATIVE CONTACTED RECEIVED:

NOTICE OF EXTENDED PAYMENT PROVISION

(PER ARS 32-1129.01) THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 15 DAYS AFTER CERTIFICATION AND APPROVAL OF BILLINGS AND ESTIMATES FOR PROGRESS PAYMENTS, WITHIN 15 DAYS AFTER CERTIFICATION AND APPROVAL OF BILLINGS AND ESTIMATES FOR RELEASE OF RETENTION AND WITHIN 15 DAYS AFTER CERTIFICATION AND APPROVAL OF BILLINGS AND ESTIMATES FOR FINAL PAYMENT.

CITY OF SEDONA

SHEET INDEX

SHT NO.	DWG NO.	TITLE
1	C1	COVER SHEET
2	C2	NOTES & DETAILS
3	C3	CULVERT DETAILS
4	C4	PLAN SHEET
5	C5	CULVERT & ROAD PROFILES

APPROVALS

APPROVED: _____ DATE _____
J. ANDY DICKEY, P.E.
ASSISTANT CITY ENGINEER/DIRECTOR OF PUBLIC WORKS

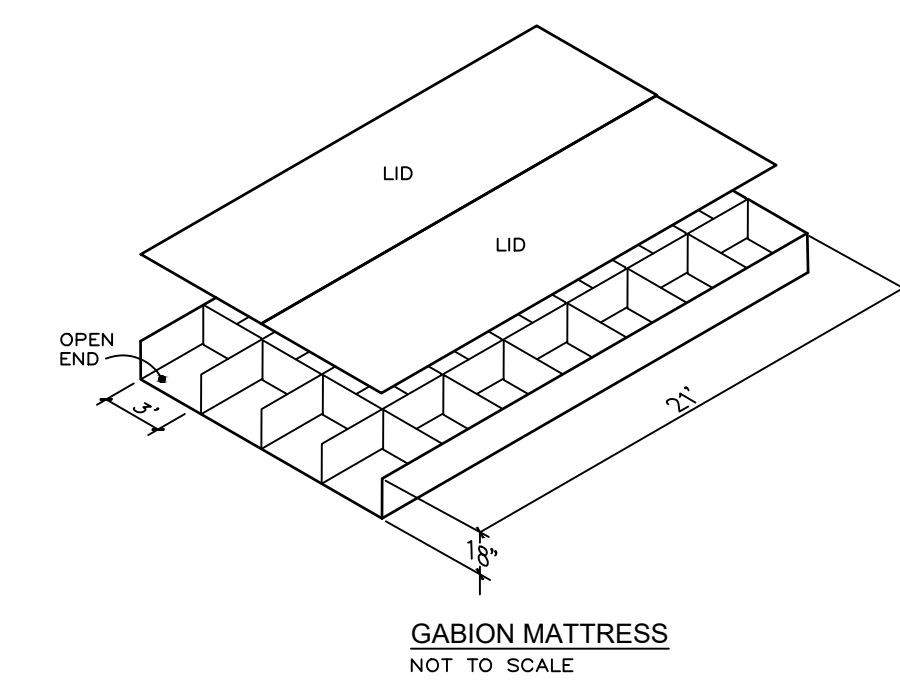
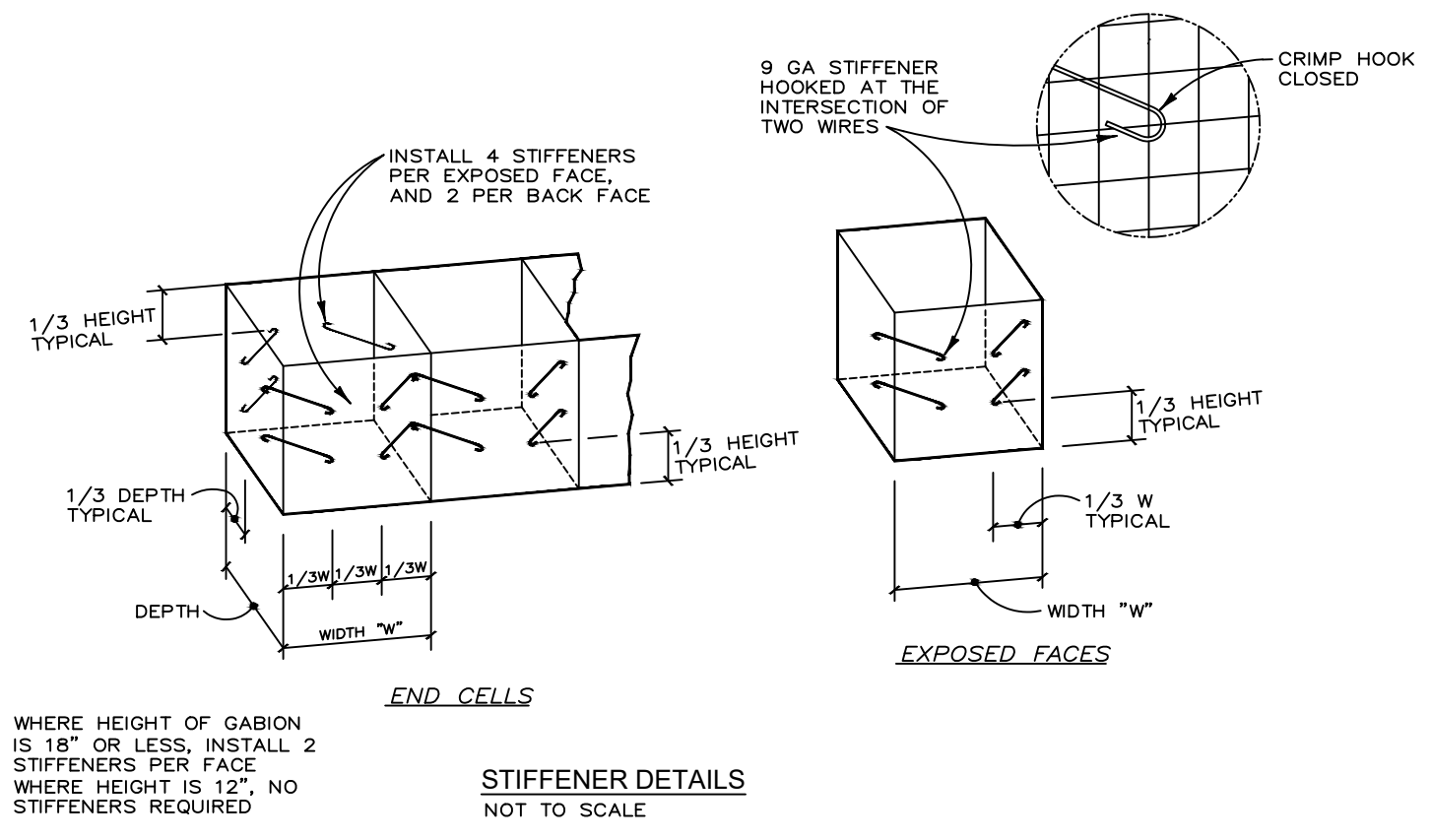
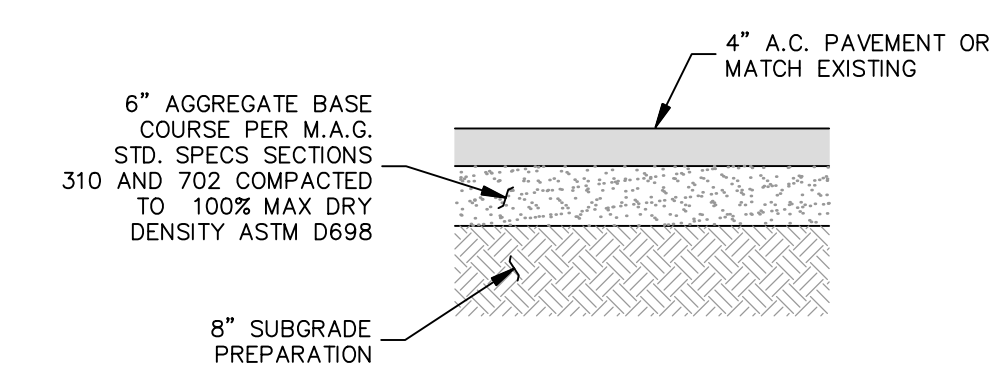
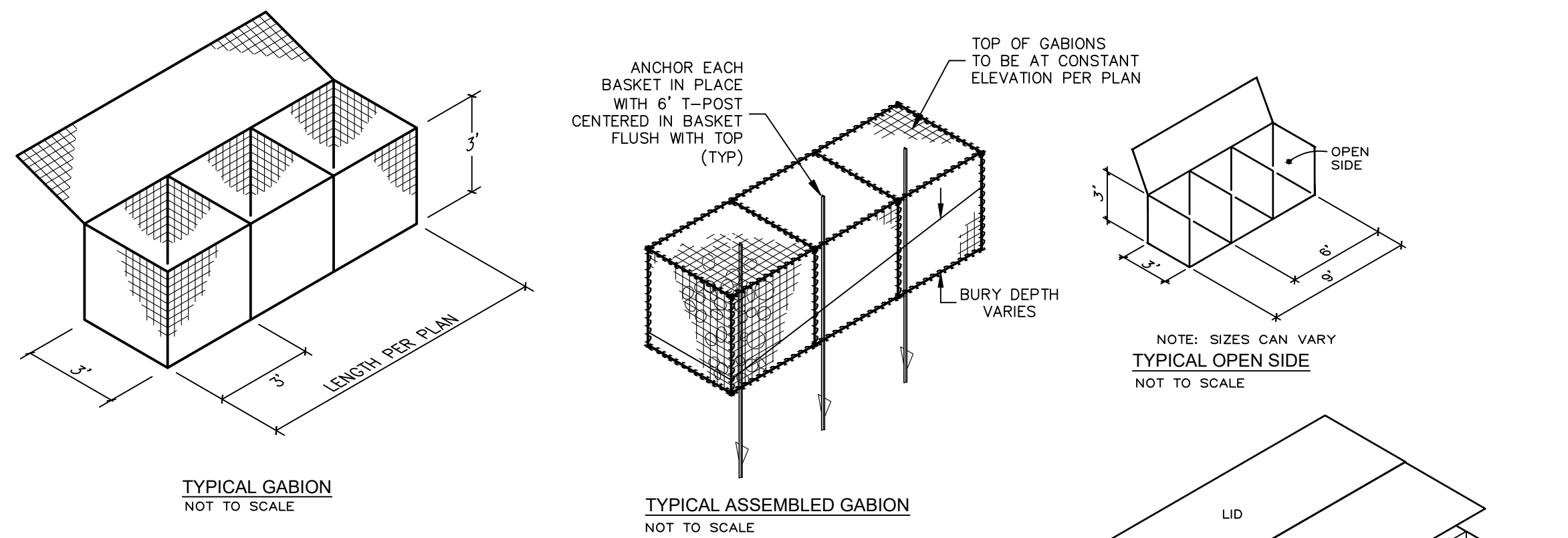
OPINION OF EARTHWORK QUANTITIES*

DESCRIPTION	QUANTITY	UNIT
CUT	170	CY
FILL	20	CY
NET	140	CY

* THE ENGINEER HAS USED HIS BEST JUDGMENT IN THE ESTIMATION OF THE EARTHWORK FOR THIS PROJECT. THE ENGINEER HAS NO CONTROL OVER VARYING FIELD CONDITIONS AND CONSTRUCTION METHODS INVOLVED IN THE SITE GRADING. CONSEQUENTLY, ACTUAL QUANTITIES, COST AND TIME REQUIRED FOR THIS PROJECT MAY BE AFFECTED BY MANY FACTORS BEYOND THE ENGINEER'S CONTROL, AND ENGINEER SHALL NOT BE HELD LIABLE FOR ANY DEVIATION FROM ITS ESTIMATED QUANTITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EARTHWORK QUANTITIES. THE FOLLOWING IS THE ENGINEER'S ESTIMATE OF RAW EARTHWORK QUANTITIES FOR THIS PROJECT. (NO SHRINKAGE VALUES ARE TAKEN INTO CONSIDERATION IN THESE QUANTITIES).

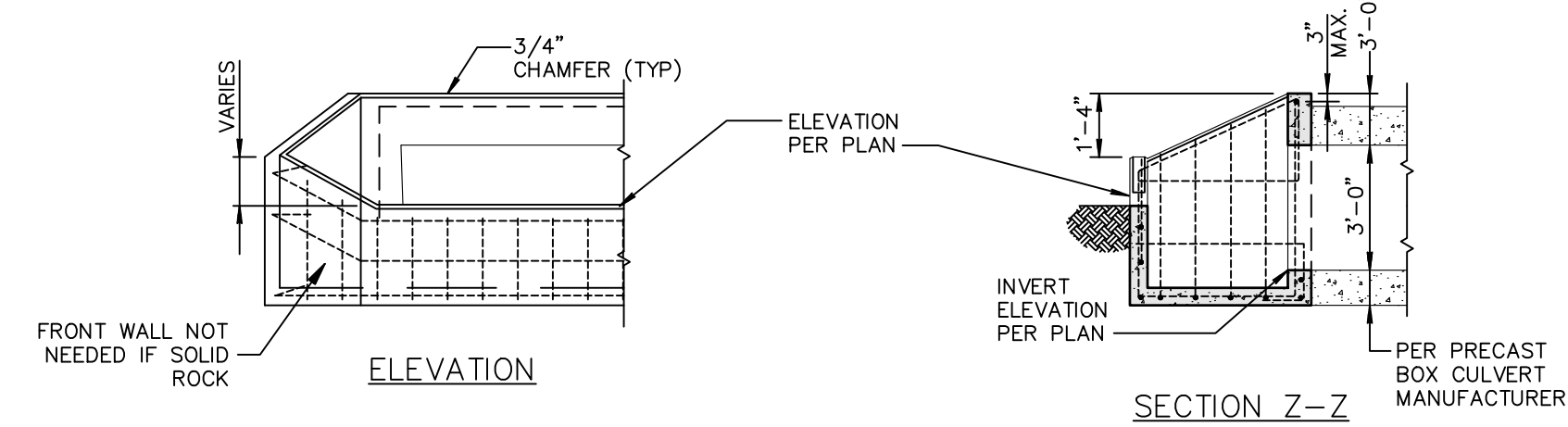
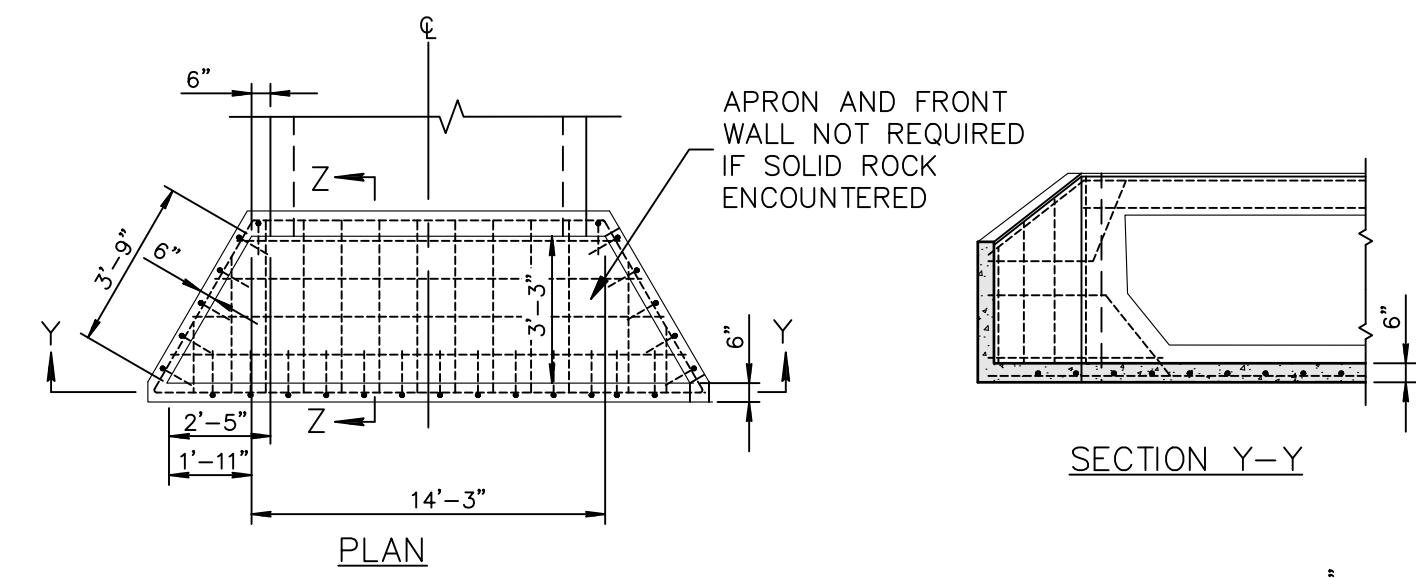
Symbol	Revisions	Date	Appr.





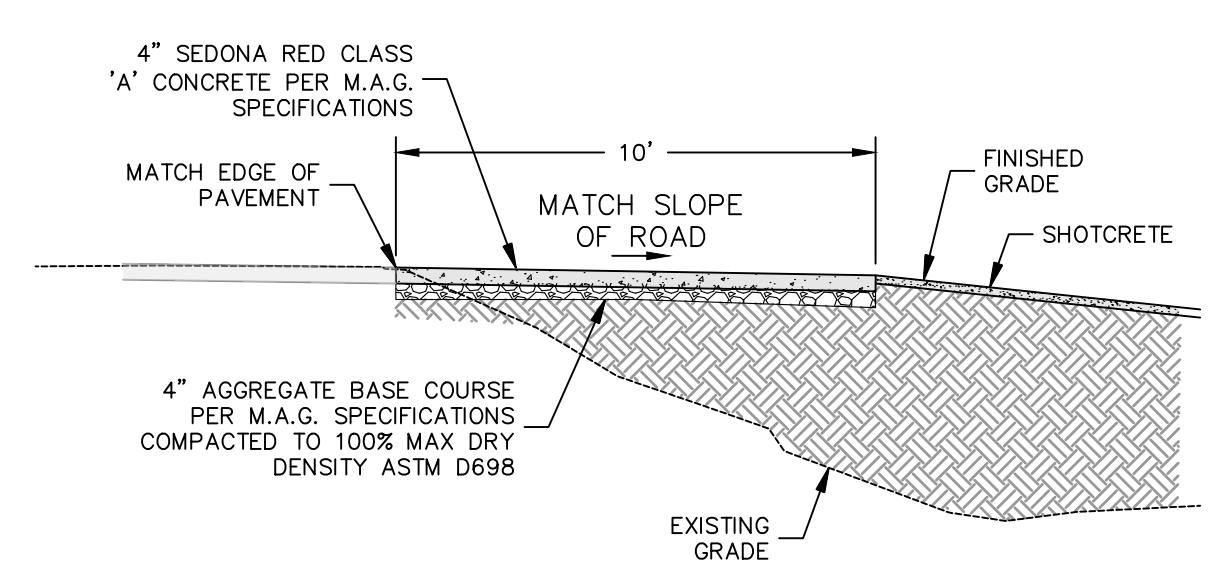
- NOTES**
- GABION SIZES ARE EXPRESSED IN FEET.
 - MATTRESSES AND CUSTOM SIZES PROVIDED ON REQUEST.
 - GABIONS WHICH ARE TO BE CONNECTED TOGETHER SIDE-TO-SIDE OR END-TO-END, MAY BE PROVIDED OPEN-SIDED OR OPEN-ENDED AS SHOWN TO REDUCE WEIGHT, COST, AND ASSEMBLY TIME.
 - GABIONS ARE MANUFACTURED OF 3"x3" WELDED WIRE MESH, WIRE SIZE AND FINISH VARIES:
 - 9 GA. BRITTE BASIC (BLACK)
 - 9 GA. WITH 0.9 OZ/SF ZINC COATING
 - 11 GA. WITH 0.85 OZ/SF ZINC COATING.
 - OPTIONAL 2.0 OZ/SF ZINC COATING IS AVAILABLE ON REQUEST.

ASPHALT PAVEMENT SECTION
N.T.S.

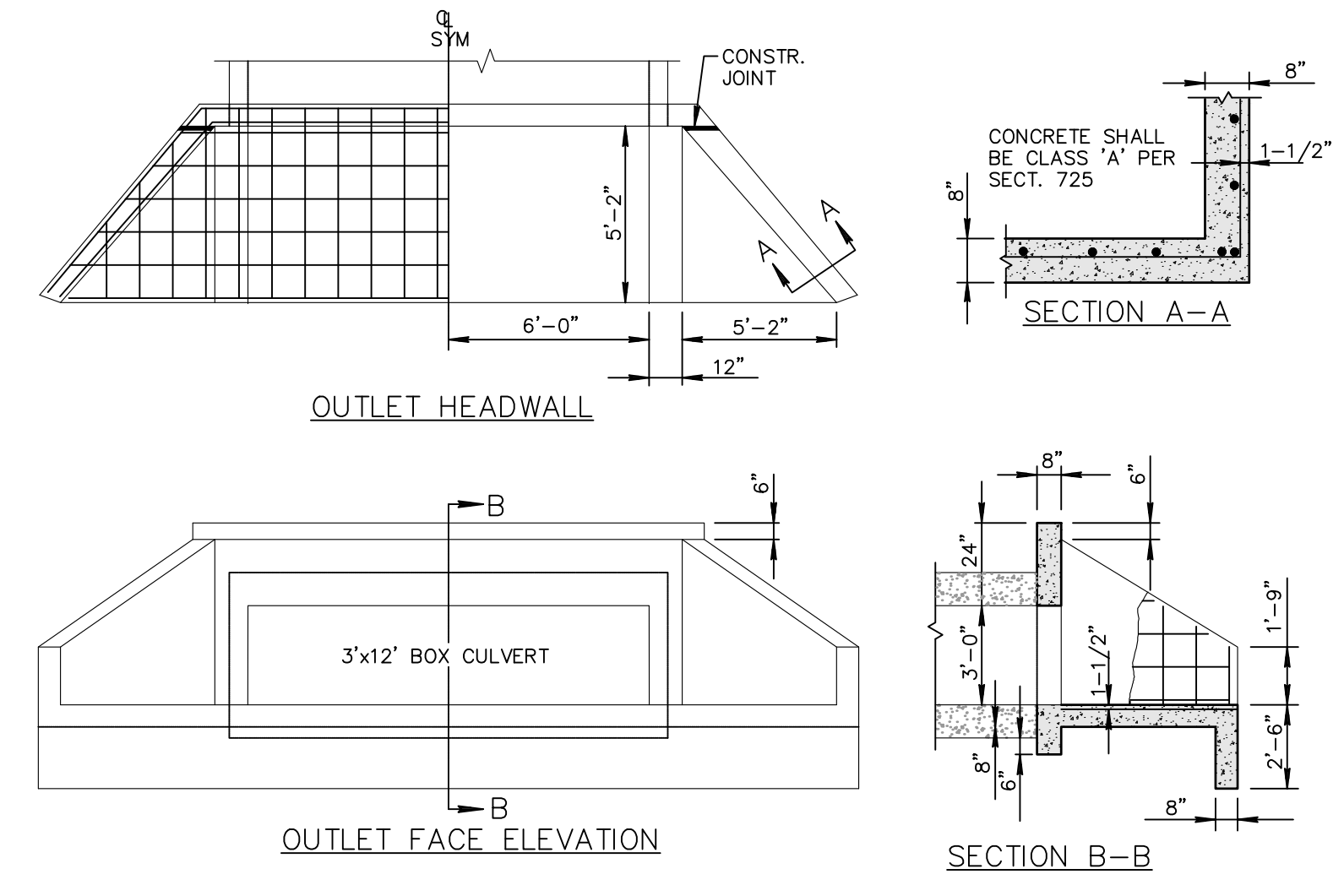


- NOTES:**
- HIGH POINT OF HEADWALL SHALL NOT PROJECT MORE THAN 3" ABOVE SLOPE.
 - ALL CONCRETE SHALL BE CLASS 'A' PER SECT. 725.
 - ALL REINFORCING BARS SHALL BE #4, 12" C TO C AND 3" CLEAR TO INSIDE OF FLOOR AND WALLS.
 - SEE DETAIL 4 ON DWG C3 FOR WING WALL ANGLES.
 - CONTRACTOR TO PROVIDE DESIGN AND SHOP DRAWINGS FOR HEADWALL AND CONNECTION TO BOX CULVERT AS RECOMMENDED BY THE PRECAST BOX CULVERT MANUFACTURER.

DROP INLET DETAIL
MODIFIED M.A.G. 501-5
N.T.S.



HILFIKER GABION DETAILS
N.T.S.



- NOTES:**
- CONTRACTOR TO PROVIDE DESIGN AND SHOP DRAWINGS FOR HEADWALL AND CONNECTION TO BOX CULVERT AS RECOMMENDED BY THE PRECAST BOX CULVERT MANUFACTURER.
 - SEE DETAIL 5 ON DWG C3 FOR WING WALL ANGLES.

OUTLET HEADWALL DETAIL
MODIFIED M.A.G. 501-3
N.T.S.

GENERAL NOTES

- ALL QUANTITIES SHOWN ARE APPROXIMATE AND ARE FURNISHED SOLELY FOR THE CONTRACTOR'S CONVENIENCE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACTUAL QUANTITIES OF WORK REQUIRED AND BASE HIS BID ON HIS OWN INDEPENDENT ESTIMATE OF THE WORK SCOPE AND QUANTITIES OF MATERIALS REQUIRED. THEY DO NOT NECESSARILY CORRESPOND TO BID SCHEDULE ITEMS. PAYMENT WILL BE BASED ON BID SCHEDULE ITEMS. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR INDEPENDENTLY ESTIMATING QUANTITIES PRIOR TO BIDDING. THE CONTRACTOR REPRESENTS THAT THE TOTAL CONTRACT SUM IS ADEQUATE COMPENSATION FOR COMPLETING THE ENTIRE PROJECT AS SHOWN ON THE PLANS.
- THE LOCATION OF EXISTING FEATURES INDICATED ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR MAKING COMPLETE AND ACCURATE ON-SITE DETERMINATIONS OF THE LOCATIONS OF ALL UTILITIES, STRUCTURES AND FIELD CONDITIONS, WHICH MAY AFFECT THE PROGRESS OF THE WORK.
- THESE PLANS ARE SUBJECT TO THE INTERPRETATION OF INTENT BY THE ENGINEER. ALL QUESTIONS REGARDING THESE PLANS SHALL BE DIRECTED TO THE ENGINEER. ANY INTERPRETATION OF THE PLANS BY ANYONE OTHER THAN THE ENGINEER SHALL BE RESPONSIBLE FOR ANY CONSEQUENCES THEREOF.
- ADEQUATE DRAINAGE OF THE CONSTRUCTION AREA SHALL BE PROVIDED AT ALL TIMES. CONSTRUCTION DRAINS SHALL BE PROVIDED AS NEEDED TO ENABLE WATER TO DRAIN FROM THE CONSTRUCTION AREA RAPIDLY AND WITHOUT DAMAGING THE WORK IN PROGRESS. TO FURTHER PROMOTE GOOD DRAINAGE OF THE SITE, DRAINAGE CHANNELS, CULVERTS, AND STRUCTURES, SHALL BE CONSTRUCTED FROM DOWNSTREAM TO UPSTREAM IN SUCH A WAY THAT, DURING CONSTRUCTION, THEY DO NOT IMPEDE THE FLOW OF WATER FROM THE CONSTRUCTION AREA. DAMAGE TO ADJACENT PROPERTIES OR TO ANY PORTION OF THE WORK CAUSED BY THE CONTRACTOR'S FAILURE TO PROVIDE ADEQUATE DRAINAGE OF THE CONSTRUCTION SITE OR TO ORDER THE WORK SO AS TO MINIMIZE THE POSSIBLE EXTENT OF SUCH DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- ALL WORK SHALL CONFORM TO MAG STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND CURRENT REVISIONS THERETO AS MODIFIED BY THE CITY OF SEDONA CITY CODE SECTION 7.
- EXACT POINT OF MATCHING & TERMINATION OF IMPROVEMENTS MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER IF NECESSARY.
- ELEVATIONS SHOWN ON PLAN ARE TO FINISHED GRADE, UNLESS OTHERWISE NOTED OR SPECIFIED.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN SUFFICIENT BARRICADES TO PROVIDE FOR THE SAFETY OF THE GENERAL PUBLIC TO THE SATISFACTION OF THE PUBLIC WORKS DIRECTOR.
- ALL MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ACCESS AT ALL TIMES TO ADJACENT PROPERTY.
- ALL EXPOSED CONCRETE SHALL BE SEDONA RED, UNLESS OTHERWISE DESIGNATED.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION CONTRACTOR TO COORDINATE WORK WITH ALL UTILITY COMPANIES.
- THE DISTURBANCE FOR THIS PROJECT SITE IS LESS THAN OR EQUAL TO 1 ACRE COMPLIANCE WITH PROVISIONS OF AZPDES STORMWATER PERMIT. THEREFORE AN AZPDES IS NOT REQUIRED. A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS NOT BEEN PREPARED. HOWEVER, THE CONTRACTOR SHALL MINIMIZE POLLUTANTS IN STORM WATER DISCHARGES WITH THE FOLLOWING EROSION AND SEDIMENT CONTROLS:
 - THE DISTURBED AREA SHALL BE MINIMIZED. IN PARTICULAR, CONSTRUCTION ACTIVITIES INCLUDING TEMPORARY ACCESS, MATERIAL STORAGE AREA, AND CONSTRUCTION YARD(S) SHALL BE WITHIN THE DESIGNATED AREA ON THE PLANS.
 - THE UNCOVERED DISTURBED AREA SHALL BE SEEDED.
 - NATURAL VEGETATION SHALL BE PRESERVED. IN PARTICULAR, THE VEGETATION IN PROTECTED AREAS SHALL NOT BE DAMAGED.
 - THE CONSTRUCTION SITE INCLUDING YARD AREAS SHALL BE KEPT IN GOOD ORDER. CONSTRUCTION MATERIALS, CONSTRUCTION WASTE, GARBAGE, SANITARY WASTES SHALL BE PROPERLY CONTAINED TO PREVENT CONTAMINATION OF STORMWATER RUNOFF. ACCIDENTAL SPILLS SHALL BE PROMPTLY CLEANED UP.

QUANTITIES

DEMOLITION			
1	Clear and grub	1	LS
2	Sawcut exist AC pavement	70	LF
3	Remove and dispose exist shotcrete	55	SY
4	Remove and dispose exist ac pavement	100	SY
5	Remove misc traffic barrier posts	1	LS
CONSTRUCTION			
6	Earthwork cut	170	CY
6	Earthwork fill	20	CY
6	Earthwork rock removal	140	CY
7	Asphalt pavement section	79	SY
8	Precast 3'x12' concrete box culvert	1	LS
9	Culvert drop inlet (Modified MAG 501-5)	1	LS
10	Culvert outlet (Modified MAG 501-3)	1	LS
11	Safety Railing (MAG 145)	60	LF
12	Shotcrete bank/channel lining with fiber mesh	160	SY
13	Guardrail	105	LF
14	Gabion Baskets (3'x3'x3')	17	EA
15	Gabion Mattress (12'x20'x18")	1	EA
16	10' wide Concrete Shared Use Path	45	SY

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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NOTICE OF EXTENDED PAYMENT PROVISION
(PER ARS 32-1129.01) THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 15 DAYS AFTER CERTIFICATION AND APPROVALS OF BILLINGS AND ESTIMATES FOR PROGRESS PAYMENTS WITHIN 15 DAYS AFTER CERTIFICATION AND APPROVALS OF BILLINGS AND ESTIMATES FOR RELEASE OF RETENTION AND WITHIN 15 DAYS AFTER CERTIFICATION AND APPROVAL OF BILLINGS AND ESTIMATES FOR FINAL PAYMENT.

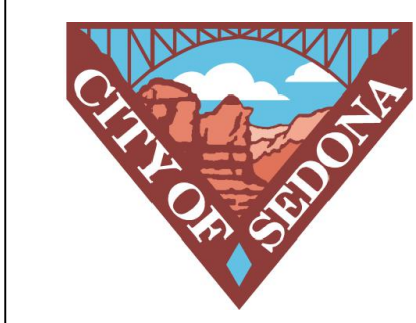


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				JTL	CIVIL



SWI
Shepard Wesnitzer, Inc.

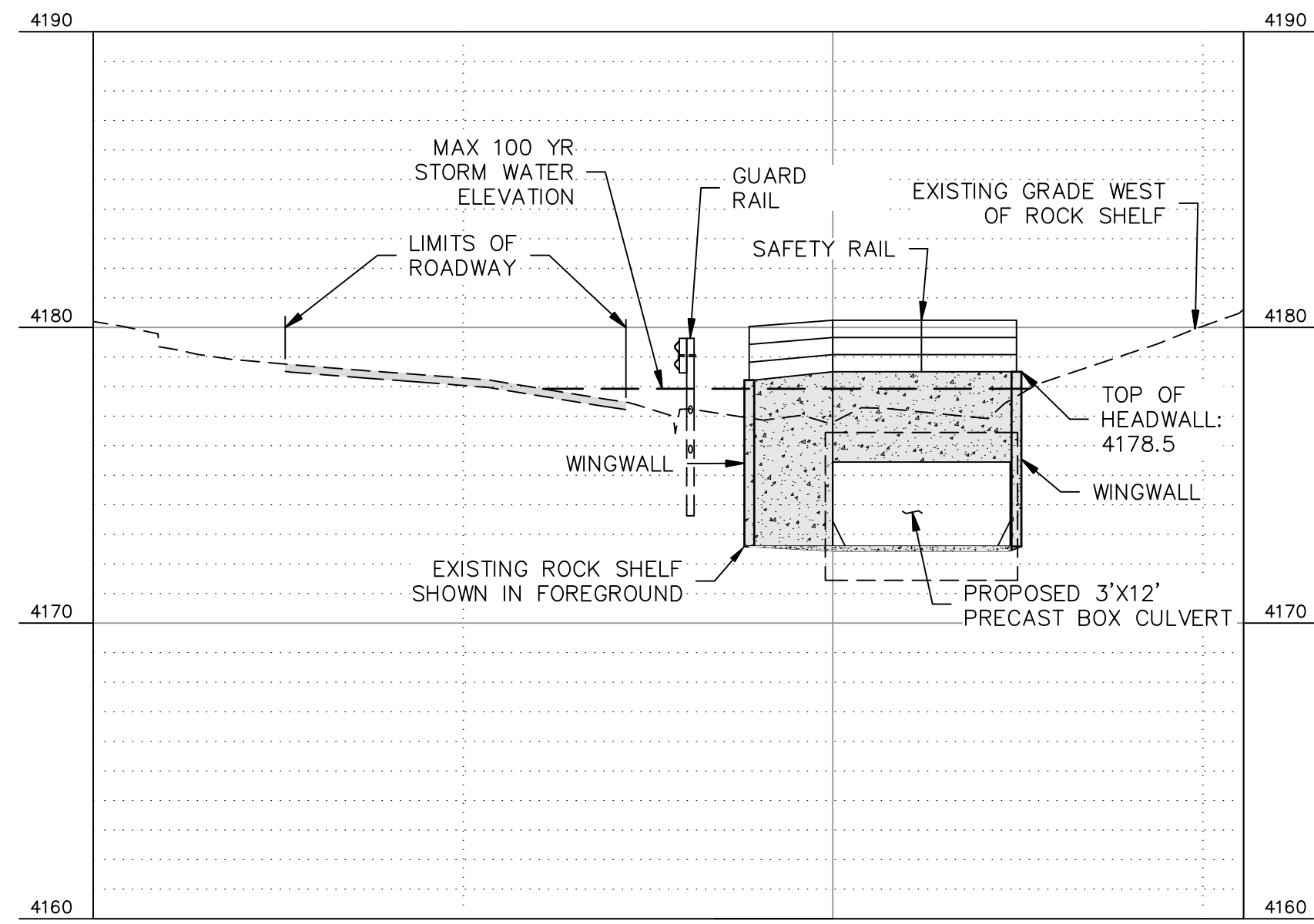
75 Kollof Place
Sedona, AZ 86336
928.282.1061
928.282.2058 fax
www.swiaz.com



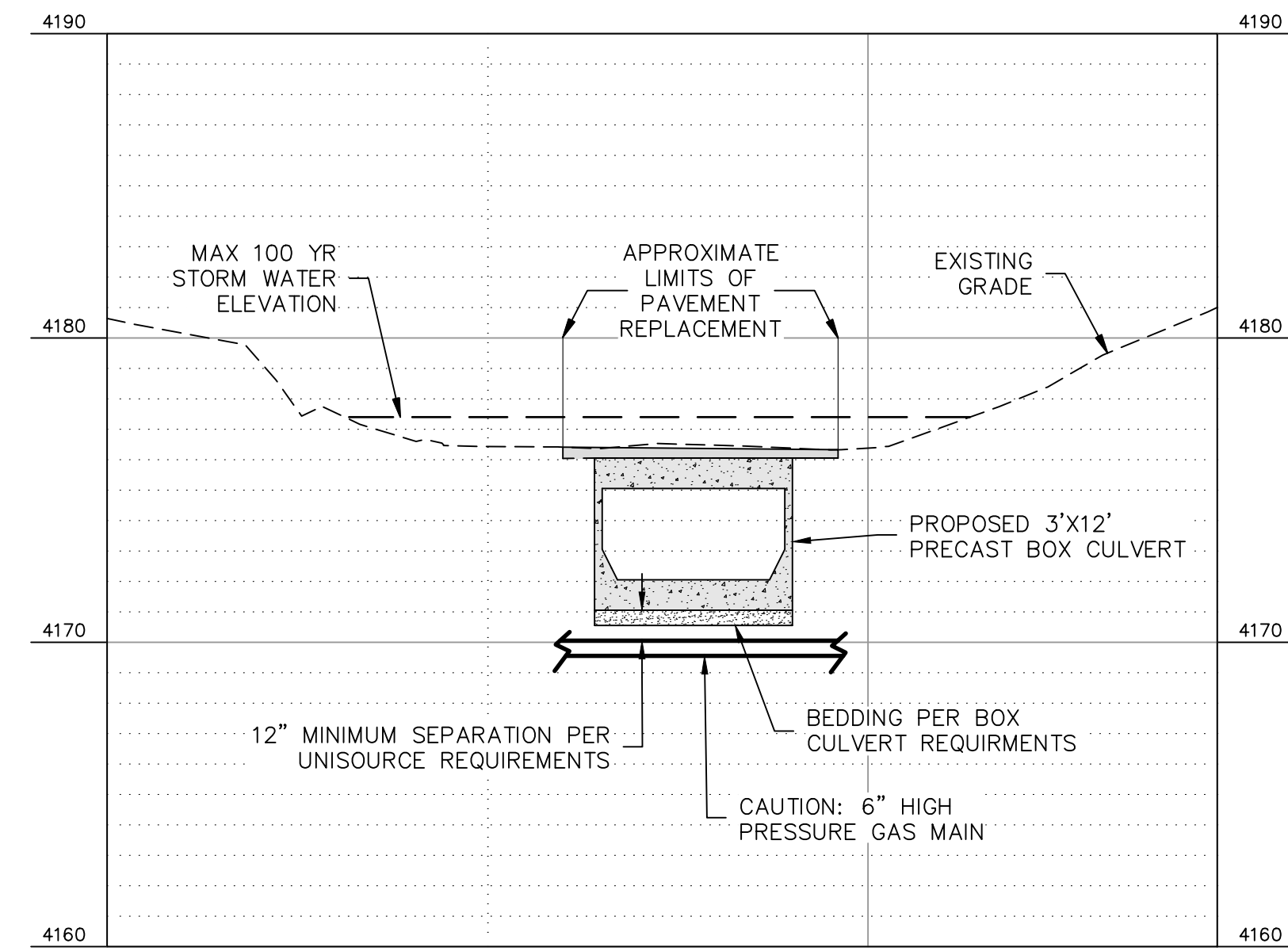
**CITY OF SEDONA
PUBLIC WORKS DEPARTMENT
102 ROADRUNNER DRIVE
SEDONA, ARIZONA 86336
928-204-7111**

**BACK O' BEYOND ROAD
LOW WATER CROSSING
SD-03
NOTES & DETAILS**

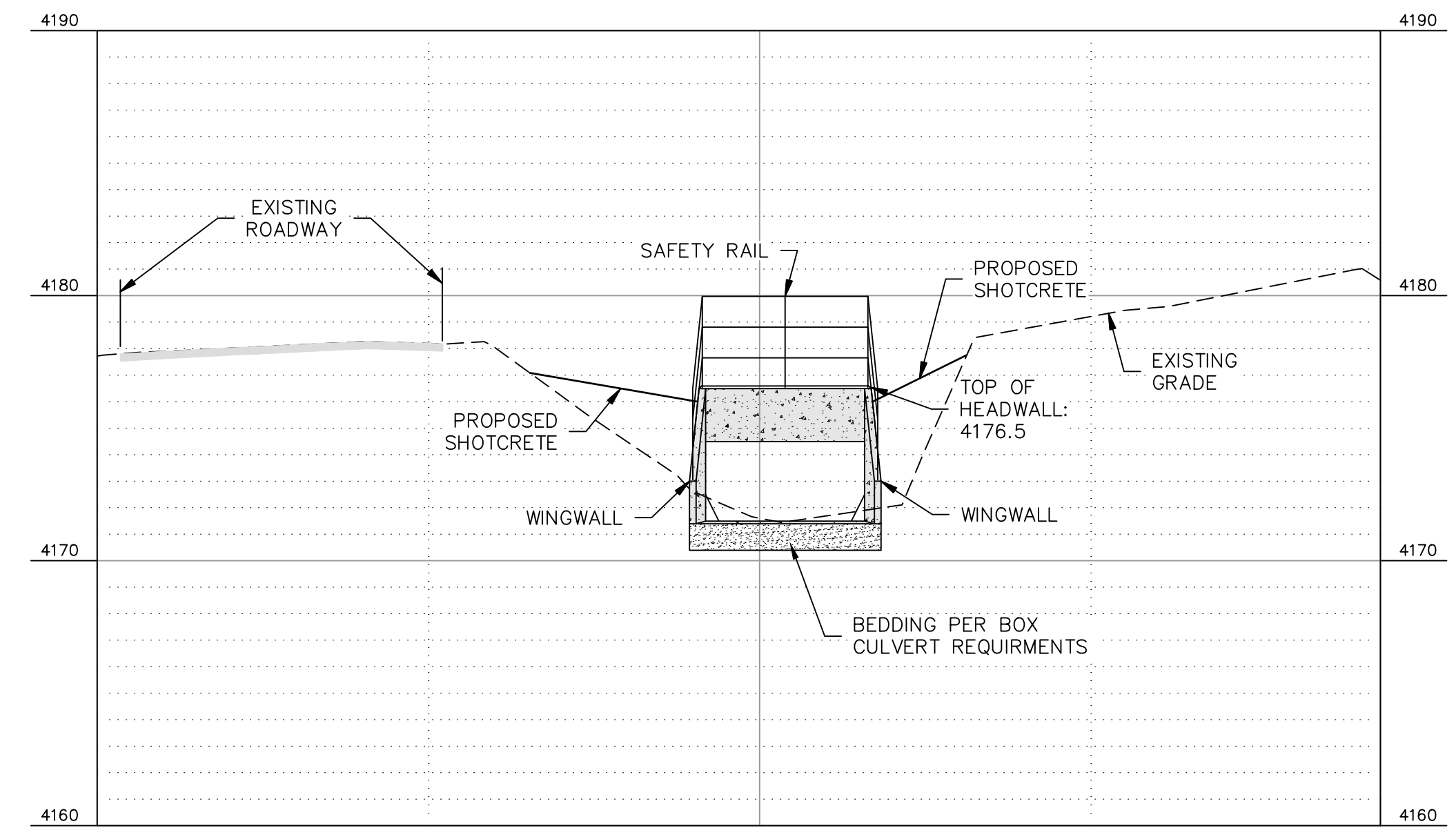
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C2
SHEET NO.
2 OF 5**



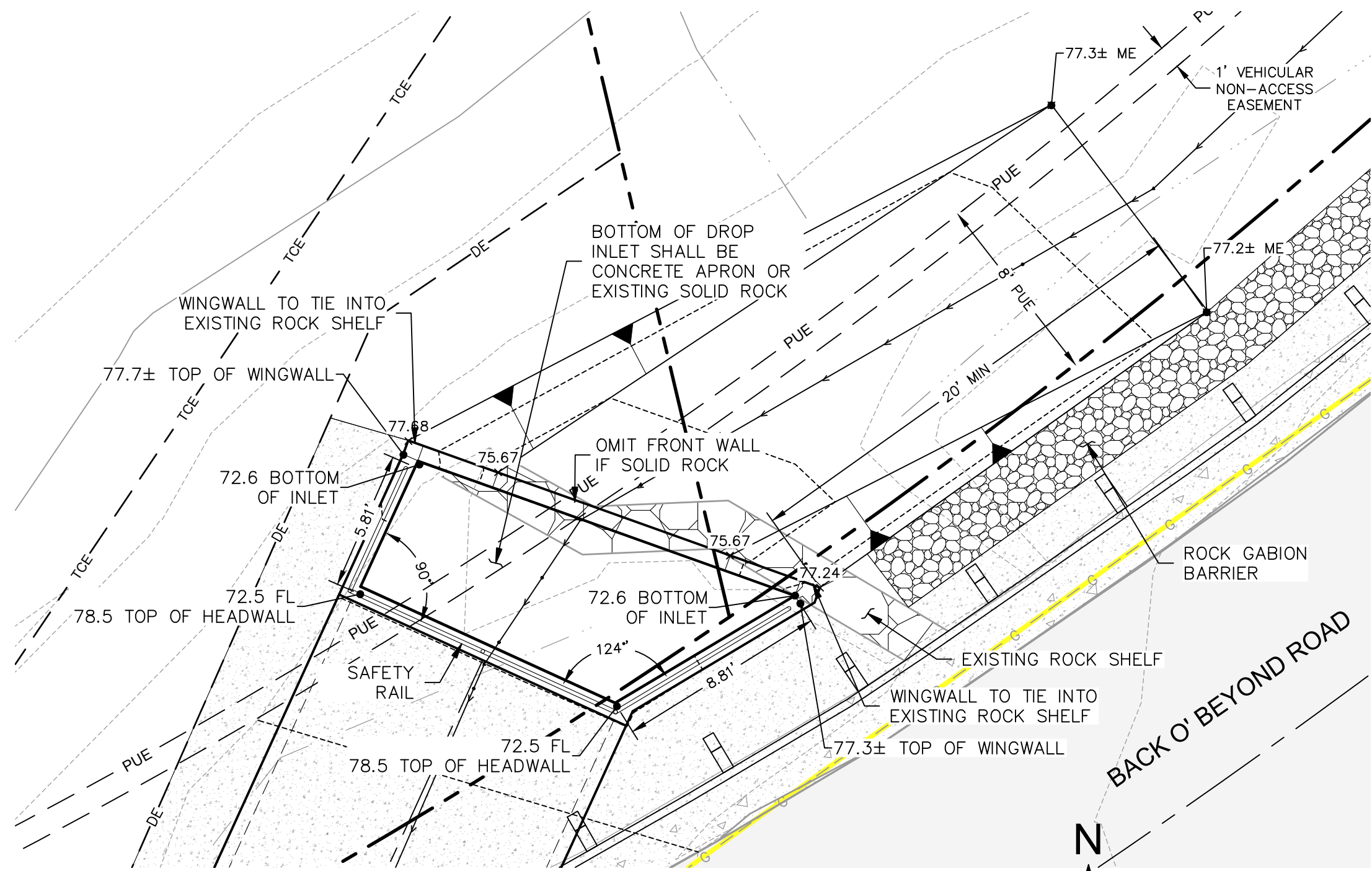
DROP INLET HEADWALL CROSS SECTION 1
H: 1"= 10' V: 1"=5' C4



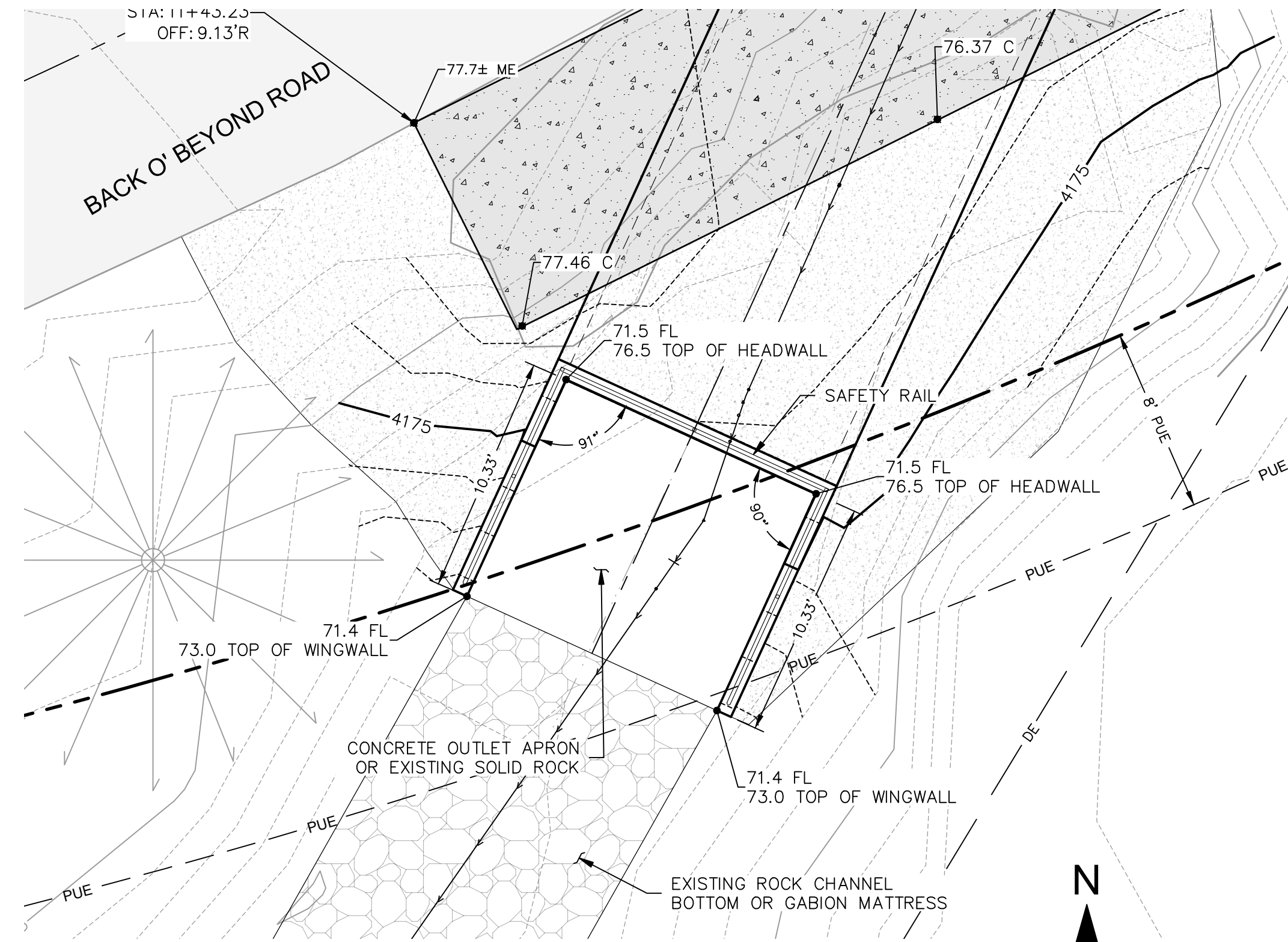
BOX CULVERT ROADWAY CROSS SECTION 2
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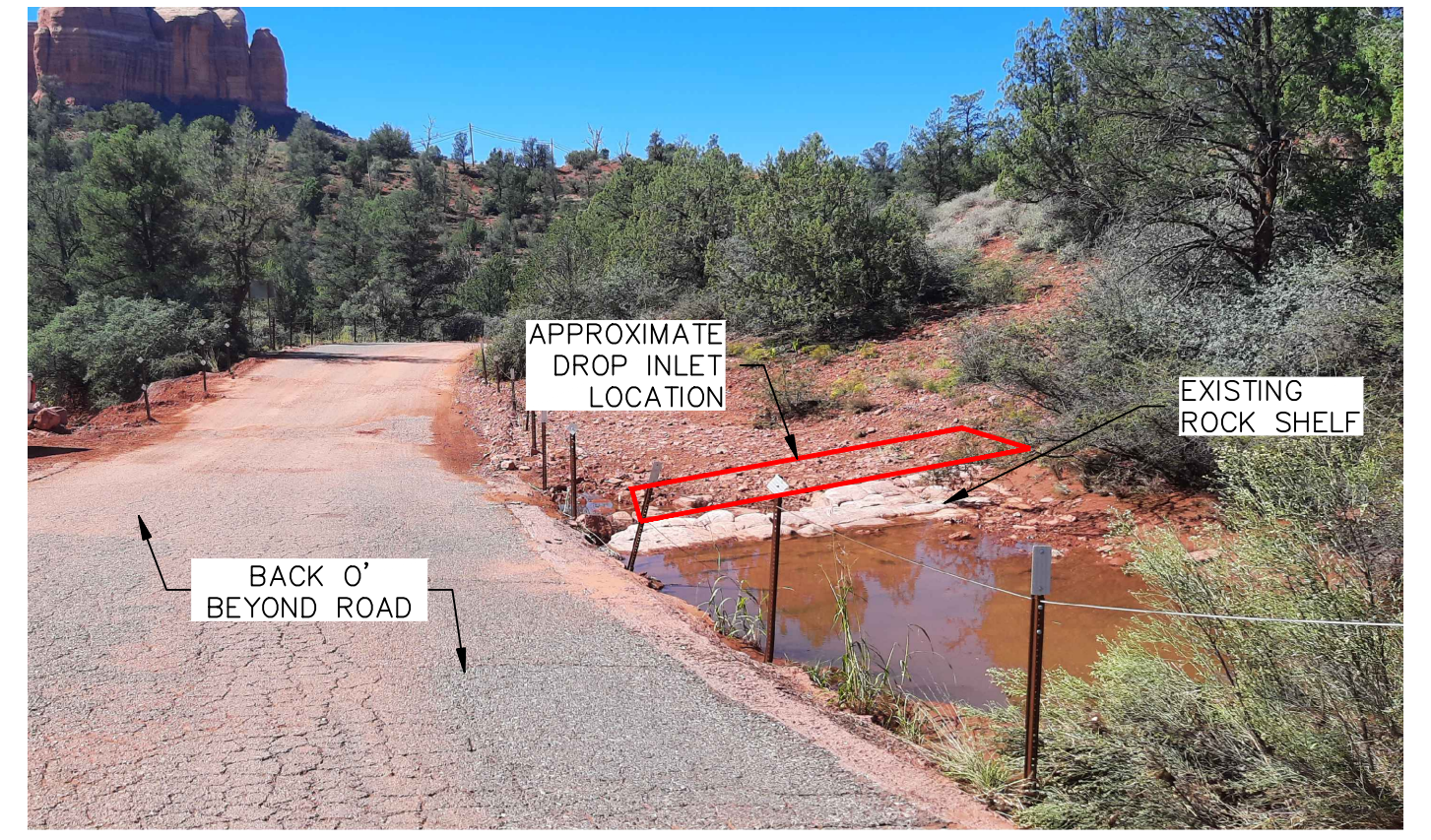
OUTLET HEADWALL CROSS SECTION 3
H: 1"= 10' V: 1"=5' C4



DROP INLET HEADWALL DETAIL 4
1"=5' C4



OUTLET HEADWALL DETAIL 5
1"=5' C4



EXISTING ROCK SHELF 6
NO SCALE

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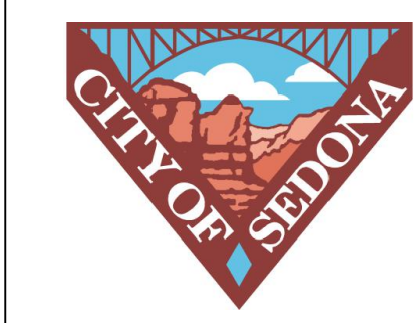
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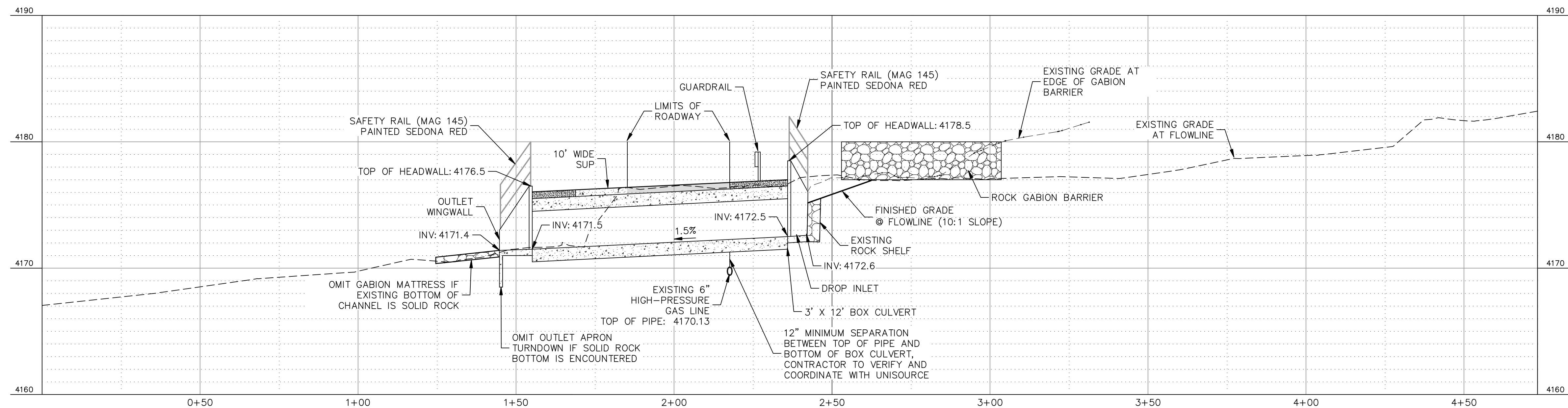


CITY OF SEDONA
PUBLIC WORKS DEPARTMENT
102 ROADRUNNER DRIVE
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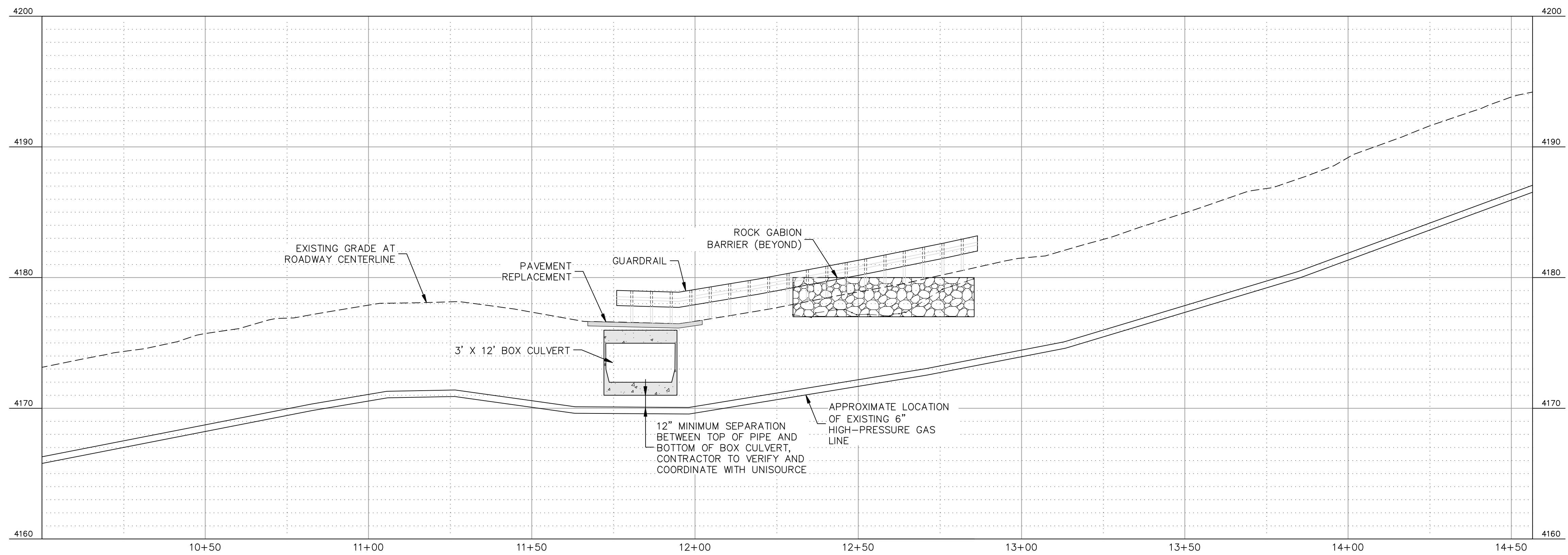
BACK-O-BEYOND ROAD
LOW WATER CROSSING
SD-03
CULVERT DETAILS

SHEET ID
C3
SHEET NO.
3 OF 5

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



BOX CULVERT PROFILE
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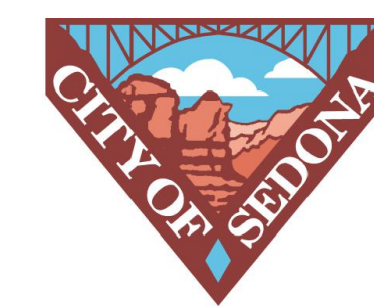


BACK O BEYOND ROAD PROFILE
H=1:20 V=1:10

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102 ROADRUNNER DRIVE
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BACK-O-BEYOND ROAD
LOW WATER CROSSING
SD-03
CULVERT & ROAD PROFILES

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 0 1"

SHEET ID
C5
 SHEET NO.
5 OF 5

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