

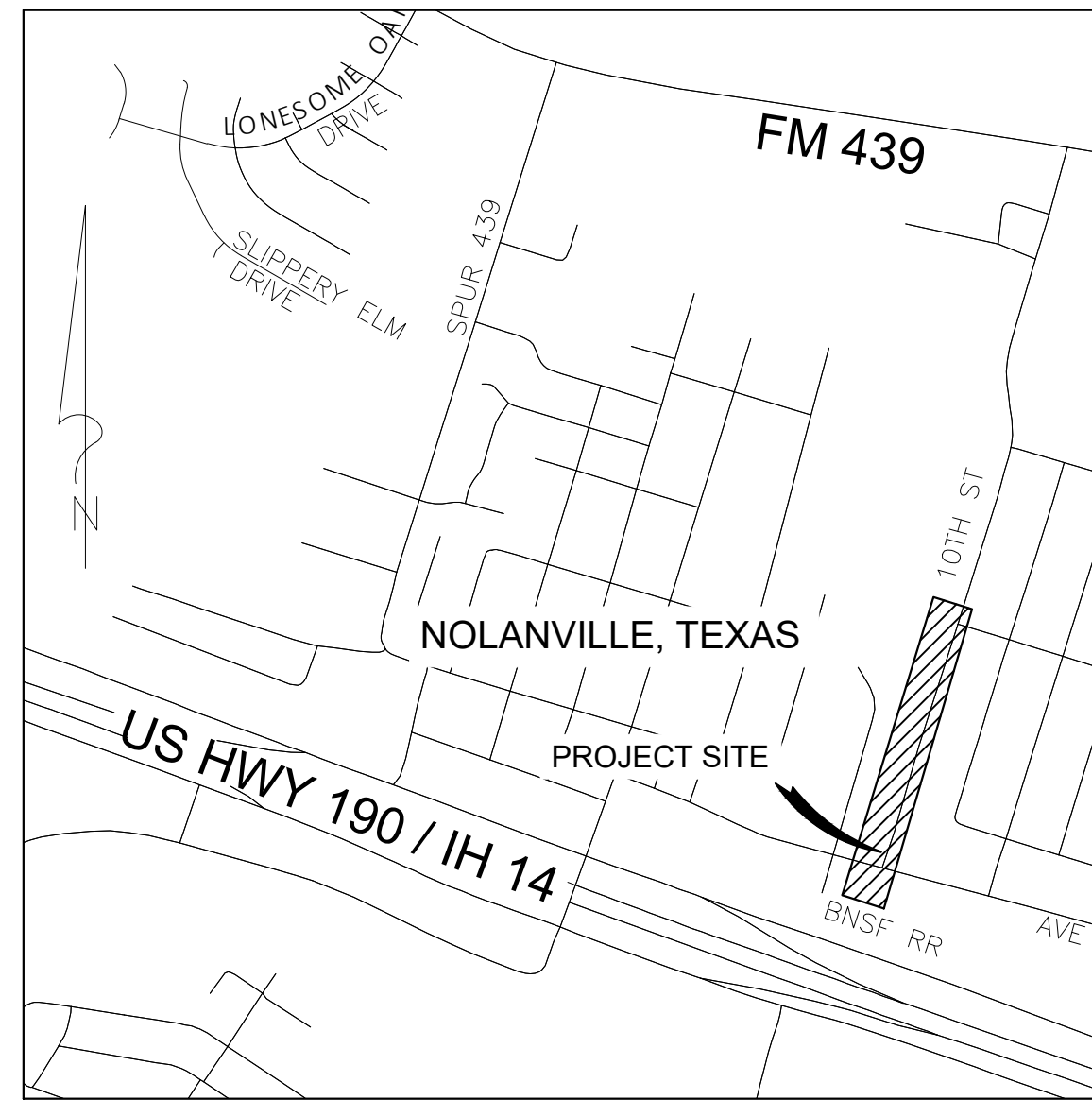
CONSTRUCTION PLANS AVE. "H" CHANNEL IMPROVEMENTS PHASE ONE NOLANVILLE GRANT PROGRAM CITY OF NOLANVILLE, TEXAS



CITY OF NOLANVILLE
APPROVED FOR CONSTRUCTION

BY: Teresa Chandler
TERESA CHANDLER, CITY MANAGER

DATE: March 5, 2026



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CITY OF NOLANVILLE
FLOOD PLAIN ADMINISTRATOR

BY: Chris Atkinson
CHRIS ATKINSON

DATE: March 5, 2026

MAYOR AND CITY COUNCIL

ANDY WILLIAMS	MAYOR
JAMES LYNN BILBERRY	MAYOR PRO TEM & COUNCILMEMBER SEAT NO. 5
KARISHMA TALBOTT	COUNCILMEMBER SEAT NO. 1
JUANITA SIMS	COUNCILMEMBER SEAT NO. 2
TANARA GRISHAM	COUNCILMEMBER SEAT NO. 3
MIKAYLA MONDRAGON	COUNCILMEMBER SEAT NO. 4

SUBMITTED FOR APPROVAL

BY: John Hart Bandas
JOHN HART BANDAS, PE



DATE: MARCH 1, 2026



BANDAS ENGINEERING LLC

CIVIL ENGINEERING FIRM# F-3782

12238 ANTILLES LANE
CONROE, TEXAS 77304

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GENERAL NOTES:

1. PROJECT DESCRIPTION
 - A. THESE NOTES ARE INTENDED TO PROVIDE A CONVENIENT SUMMARY OF PROJECT REQUIREMENTS, BUT DO NOT LIMIT ANY REQUIREMENTS IMPOSED ELSEWHERE IN THE CONTRACT DOCUMENTS.
 - B. CONTRACT DOCUMENTS CONSIST OF PLANS, BID PROPOSAL, OWNER'S CONTRACT DOCUMENTS, TXDOT 2024 SPECIFICATIONS, AND CITY OF NOLANVILLE DESIGN MANUAL AND STANDARD DETAILS INCORPORATED BY REFERENCE.
 - C. THE PROJECT CONSISTS OF THE THE CONSTRUCTION OF CHANNEL AND EROSION CONTROL IMPROVEMENTS AS DESCRIBED IN THE CONTRACT DOCUMENTS.
 - D. THE CITY OF NOLANVILLE SUBDIVISION ORDINANCE, CITY OF NOLANVILLE ZONING ORDINANCE, BELL COUNTY WCID #3 REGULATIONS, AND THE CORPS OF ENGINEERS (FORT WORTH DISTRICT) WOUS DETERMINATION ARE THE GOVERNING DOCUMENTS FOR THE PROJECT.
 - E. ALL FEDERAL, STATE, COUNTY, AND CITY LAWS, RULES, REGULATIONS, AND ORDINANCES MUST BE OBSERVED IN THE PERFORMANCE OF THIS PROJECT.
 - F. THE CONTRACTOR SHALL ASSUME THE DUTIES OF "SITE OPERATOR" FOR THE COMPLIANCE WITH TCEQ STORMWATER POLLUTION PREVENTION REGULATIONS FOR THE TERM OF THIS CONTRACT. THE SITE IS IN EXCESS OF FIVE ACRES. THE ENGINEER SHALL PROVIDE THE STORMWATER POLLUTION PREVENTION PLA. THE CONTRACTOR SHALL PROVIDE THE OWNER, ENGINEER, AND CITY A COPY OF THE NOI AND NOT.
 2. PROPOSALS AND AWARD OF CONTRACT
 - A. THE OWNER WILL SOLICIT BIDS IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND PROPOSAL DOCUMENTS.
 - B. THE OWNER RESERVES ALL RIGHTS TO WAIVE FORMALITIES AS HE CHOOSES, AND TO REJECT ANY OR ALL BIDS.
 - C. THE OWNER WILL AWARD THE CONTRACT TO THE LOWEST RESPONSIVE BIDDER.
 - D. PRIOR TO FINAL AWARD AND PROSECUTION OF WORK, THE CONTRACTOR MUST PROVIDE PROOF OF INSURANCE, SURETY BONDS, ETC. WHICH MEETS THE REQUIREMENTS OF THE CITY OF NOLANVILLE, TEXAS.
 3. PROSECUTION OF WORK
 - A. 180 CALENDAR DAYS ARE ALLOTTED BY THE CONTRACT FOR THE SUBSTANTIAL COMPLETION OF THE WORK DESCRIBED HEREIN. LIQUIDATED DAMAGES FOR EXCEEDING THE ALLOTTED TIME FOR PERFORMANCE OF THIS WORK IS \$100.00 PER DIEM.
 - B. THE CONTRACTOR SHALL, WITHIN 10 DAYS OF AWARD OF CONTRACT AND RECEIPT OF NOTICE TO PROCEED, COMMENCE WORK ON THIS PROJECT.
 - C. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES, COMMUNICATION LINES, AND ELECTRICAL LINES IN THE PROJECT AREA.
 - D. THE CONTRACTOR SHALL WORK ACCORDING TO THE SEQUENCE PRESCRIBED.
 - E. THE CONTRACTOR SHALL PROVIDE A "BAR CHART SCHEDULE" FOR HIS WORK.
 - F. THE CONTRACTOR SHALL WORK DILIGENTLY AND CONTINUOUSLY TO COMPLETE THE WORK AS OUTLINED IN THE "BAR CHART SCHEDULE".
 - G. THE CONTRACTOR SHALL COOPERATE WITH OTHER PROJECT PARTICIPANTS TO PERFORM HIS WORK IN A TIMELY AND COOPERATIVE MANNER.
 4. ACCESS TO SITE
 - A. THE CONTRACTOR SHALL HAVE ACCESS TO THE SITE MONDAY THROUGH SATURDAY DURING DAYLIGHT HOURS.
 - B. THE CONTRACTOR SHALL ACCESS THE SITE THROUGH STABILIZED CONSTRUCTION ENTRANCES AS PROVIDED FOR BY THE SWPPP, OR EXTRA ONES PLACED BY THE CONTRACTOR AT LOCATIONS APPROVED BY THE ENGINEER.
 - C. THE CONTRACTOR SHALL USE THE DESIGNATED STORAGE AREA FOR MATERIAL STORAGE, EMPLOYEE PARKING, AND MACHINERY PARKING. A TEMPORARY DRAINAGE PIPE MAY BE INSTALLED TO PROVIDE ACCESS.
 - D. THE CONTRACTOR SHALL CONTINUOUSLY MAINTAIN THE CLEANLINESS OF ALL PAVED SURFACES ON ADJACENT PUBLIC ROADS.
 - E. THE CONTRACTOR SHALL AT NO TIME OBSTRUCT, HINDER, OR ENDANGER THE FLOW OF TRAFFIC ON ADJACENT PUBLIC ROADS, WHETHER VEHICULAR OR PEDESTRIAN, WITH HIS WORK.
 5. BARRICADES, AND TRAFFIC HANDLING
 - A. THE CONTRACTOR SHALL PROVIDE BARRICADES TO SEPARATE THE WORK AREA FROM THE AREAS USED FOR PARKING, VEHICULAR TRAFFIC, AND PEDESTRIAN TRAFFIC.
 - B. THE CONTRACTOR SHALL PROVIDE FLAGMEN AS NECESSARY TO DIRECT TRAFFIC.
 6. COMPLIANCE WITH LAWS AND REGULATIONS
 - A. THE CONTRACTOR SHALL PROVIDE EQUIPMENT, TRUCKS, AND TOOLS, WHICH COMPLY WITH OSHA SAFETY REGULATIONS, AND SUPPLY CERTIFICATION IF REQUESTED BY THE ENGINEER.
 - B. OSHA SAFETY REGULATIONS CONCERNING SAFETY OF WORKMEN, TRENCHING AND EXCAVATIONS SHALL BE OBSERVED.
 - C. THE CONTRACTOR SHALL PROPERLY DISPOSE OF ALL EXCESS AND WASTE MATERIAL IN APPROPRIATELY LICENSED FACILITIES.
 7. MEASUREMENT AND PAYMENT
 - A. MONTHLY PROGRESS PAYMENTS SHALL BE MADE LESS 10% RETAINAGE.
 - B. THE CONTRACTOR SHALL SUBMIT A BILL TO THE ENGINEER FOR APPROVAL ON THE FIRST OF EACH MONTH, BASED ON THE CONTRACT DOCUMENTS AND PROPOSAL.
 - C. THE ENGINEER WILL APPROVE OR AMEND THE BILL AND FORWARD IT TO THE OWNER FOR PAYMENT.
 - D. RETAINAGE SHALL BE PAID UPON COMPLETION AND FINAL CLEANUP OF IMPROVEMENTS, AND STAGING AREA, TO THE SATISFACTION AND APPROVAL OF THE ENGINEER, THE OWNER AND THE CITY OF NOLANVILLE, TEXAS.
 8. NEITHER THE CITY OF NOLANVILLE NOR BELL COUNTY WCID #3 WILL BE RESPONSIBLE FOR DAMAGES TO WATER AND WASTEWATER SERVICES THAT OCCUR PRIOR TO THE ISSUANCE OF CERTIFICATES OF OCCUPANCY. REPAIR OF DAMAGES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING WORK ON SITE.

CONSTRUCTION NOTES:

- 1.) LAYOUT OF WORK, TESTING OF MATERIALS
 - A. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION OFF-SET STAKES FORFOR ALL ITEMS OF CONSTRUCTION. THE CONTRACTOR SHALL BE FINANCIALLY RESPONSIBLE FOR THE REPLACEMENT OF LOST OR DESTROYED CONSTRUCTION STAKES OR LOT PINS.
 - B. THE CONTRACTOR SHALL CONTACT THE ENGINEER WHEN LOT PINS ARE LOST OR DESTROYED.
 - C. THE CONTRACTOR SHALL REPLACE CONSTRUCTION STAKES OR CALL THE RPLS TO RESTORE LOT PINS AT THE EXPENSE OF THE CONTRACTOR.
 - D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AGGREGATE PLANT PRODUCTION TESTING AND SUBMITTAL TESTING OF MATERIALS, (INCLUDING ASTM D-698 PROCTORS OF SUBGRADE SOILS AND LIMESTONE BASE MATERIAL, EARTH MATERIALS FOR TRENCH BACKFILL AND EMBANKMENT), CONCRETE DESIGN, ETC.
 - E. THE CITY OF NOLANVILLE WILL PROVIDE FIELD-TESTING AND INSPECTION EXCEPT FOR RE-TESTS WHICH WILL BE AT THE EXPENSE OF THE CONTRACTOR.
 - F. THE CONTRACTOR SHALL BLUETOP ALL SUBGRADE SURFACES, PAD SURFACES, BASE SURFACES, CHANNELS, LEVEES, ETC.
 - 2.) THE CONTRACTOR SHALL INSTALL EROSION CONTROL BMP'S PER THE EROSION CONTROL PLAN PRIOR TO COMMENCING GROUND-DISTURBING ACTIVITIES ON THE PROJECT.
 - 3.) CLEARING AND GRUBBING
 - A. THE CONTRACTOR SHALL STRIP AND STOCKPILE THE TOP 4" OF TOPSOIL FROM THE EXCAVATED AREAS FOR USE IN FINISHING THE PROJECT.
 - B. UNUSED TOPSOIL SHALL BE SPREAD OR STOCKPILED AS DIRECTED BY THE ENGINEER AT THE END OF THE JOB.
 - 4.) DEMOLITION
 - A. DEMOLITION WILL BE ACCOMPLISHED USING HYDRAULIC OR AIR TOOLS. DROP BALLS ARE PROHIBITED.
 - B. ALL RUBBLE AND TRASH SHALL BE REMOVED FROM THE SITE WEEKLYAND DISPOSED OF PROPERLY.
 - 5.) UNCLASSIFIED EXCAVATION AND FILL
 - A. ALL EXCAVATION SHALL BE UNCLASSIFIED, AND NO EXTRA PAY WILL BE GRANTED FOR THE REMOVAL OF UNSUITABLE MATERIAL, OR FOR ROCK EXCAVATION.
 - B. ANY UNSUITABLE MATERIAL ENCOUNTERED (SILT, CLAY MIXED WITH ORGANIC MATERIALS, OR MUD) WILL BE REMOVED AT NO EXTRA COST AND REPLACED WITH SUITABLE DRY MATERIAL.
 - C. FILL (EMBANKMENT) SHALL BE PLACED ACCORDING TO TXDOT ITEM 132 (2024 SPECIFICATIONS).IN HORIZONTAL LIFTS NOT TO EXCEED 6" COMPACTED THICKNESS, AND COMPACTED TO 95% OF ASTM D-698 MAXIMUM DRY DENSITY.
 - D. THE SWALE, WHERE NON-TOPSOIL MATERIAL IS ENCOUNTERED, SHALL BE UNDER-EXCAVATED TO A DEPTH TO ALLOW REPLACEMENT OF 4" OF TOPSOIL, AND THE FINISHED GRADE SHALL BE THE TOP OF THE TOPSOIL.
 - E. THE CONCRETE APRON AND SLOPE PAVING AREA SHALL BE EXCAVATED NEATLY TO SUB-GRADE ELEVATION A MINIMUM OF 2' OUTSIDE THE EDGE OF THE PROPOSED FLATWORK.
 - F. THE CONCRETE APRON AND SLOPE PAVING SUB-GRADE SHALL BE COMPACTED TO 95% OF ASTM D-698 MAXIMUM DRY DENSITY.
 - G. THE SUBGRADE SHALL BE BLUETOPPED AND ACCURATELY GRADED TO THE LINES AND GRADES SHOWN IN THE PLANS.
 - 6.) CONCRETE ITEMS
 - A..CONCRETE ITEMS SHALL BE CONSTRUCTED ACCORDING TO CITY OF NOLANVILLE STANDARDS.
 - B. AS SOON AS THE CONCRETE REACHES SUFFICIENT STRENGTH, THE FORMS WILL BE STRIPPED AND THE BACK-FILL AND GRADING SHALL BE COMPLETED.
 - C. THE FORMS AND STEEL WILL BE STORED IN THE STORAGE AREA, AND WRECKED FORMS WILL BE REMOVED TO STORAGE AREA BEFORE THE END OF EACH WORKDAY.
 - 7.) SEEDING AND FERTILIZING
 - A. AFTER IMPROVEMENTS ARE COMPLETE AND BACKFILL AND CLEANUP HAS BEEN ACCOMPLISHED THE CONTRACTOR SHALL PREPARE ALL NON-PAVED AREAS IN THE GRADING LIMITS FOR SEEDING AND FERTILIZING.
 - B. PREPARATION SHALL CONSIST OF BROADCASTING 10-20-10 COMMERCIAL GRADE FERTILIZER AT A RATE OF 50 LBS. PER 5000 SQUARE FEET, AND DISKING OR RAKING AS APPROPRIATE TO MIX IT INTO THE SOIL.
 - C. TO KEEP FROM BURNING THE GRASS SEED, THE CONTRACTOR SHALL WATER THE FERTILIZED AREAS WITH A WATER TRUCK, OR WAIT FOR A 1" OF RAIN TO SOAK AND DIFFUSE THE FERTILIZER PRIOR TO SEEDING.
 - D. A SEED MIXTURE CONSISTING OF 66% RYE GRASS, AND 34% COMMON BERMUDA SHALL BE BROADCAST ON PREPARED AREAS AT A RATE OF 60 LBS. PER ACRE.
 - E. THE SEEDED AREAS SHALL BE RAKED OR DRAGGED AS APPROPRIATE SO THE SEED IS COVERED WITH 1/8" OF TOPSOIL.
 - F. THE CONTRACTOR SHALL WATER SEEDED AREAS AS REQUIRED TO PRODUCE A HEALTHY STAND OF GRASS.
 - G. HYDROMULCH APPLICATION IS PERMISSIBLE IF THE FERTILIZER AND SEED CONTENT ARE SAME AS ABOVE.
 - 8.)WATER, SANITATION, CLEANUP, AND FINAL CLEANUP
 - A. THE CONTRACTOR WILL SUPPLY ALL WATER FOR CONSTRUCTION AT HIS OWN EXPENSE.
 - B. THE CONTRACTOR SHALL KEEP CLEAN ALL AREAS AFFECTED BY HIS WORK.
 - C. THE CONTRACTOR SHALL PROVIDE TRASH BARRELS IN THE WORK AREA.
 - D. THE CONTRACTOR SHALL PROVIDE AN ENCLOSED LATRINE (PORTA-POTTY) FOR USE BY HIS WORKMEN. THE LATRINE SHALL BE CLEANED AND SANITIZED ON A REGULAR BASIS.
 - E. THE CONTRACTOR SHALL PROVIDE POTABLE WATER FOR HIS WORKMEN.
 - F. ALL TRASH, FORMS, SCRAP, TEMPORARY FACILITIES, AND RESIDUE OF CONSTRUCTION SHALL BE COMPLETELY CLEANED UP AND REMOVED FROM OWNER'S PROPERTY PRIOR TO FINAL PAYMENT.

LEGEND			
	POWER POLE		TELEPHONE POLE
	IRON ROD FOUND		IRON ROD SET
	EX. GAS METER		EX. GAS LINE
	EX. WATER METER		EX. WATER LINE
	EX. WATER VALVE		EX. WASTEWATER LINE
	GUY WIRE		FENCE
	TREE		EX. FIRE HYDRANT
	EX. CONTOUR		BUSH
	PROP. CONCRETE DRIVE		NEW CURB & GUTTER
	PROP. 4' SIDEWALK		EX. CURB AND GUTTER
	PROP. WATER SERVICE, SINGLE		PROP. WATER
	PROP. WATER SERVICE, DOUBLE		PROP. WASTEWATER
	PROP. CONTOUR		PROP. U/G FIBER OPTIC LINE
	PROP. FIRE HYDRANT		PROP. U/G PHONE SVC. LINE
	PROP. WASTEWATER MANHOLE		PROP. WATER VALVE

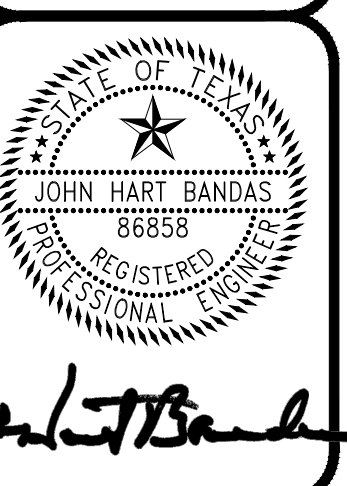
- WORK WITHIN JURISDICTIONAL WATERS:**
1. JURISDICTIONAL WATERS ARE THE AREA OF THE CHANNEL BELOW "NORMAL HIGH WATER MARK" OR "NHWM".
 2. THESE COMPRISE THE "WATERS OF THE US" OR "WOUS".
 3. WORK IN JURISDICTIONAL AREAS SHALL BE UNDER NATIONWIDE PERMITS AS INDICATED ON THE PLAN WITH THE EXCEPTION OF AREAS THAT ARE SUBJECT TO "ONE-STEP EXCAVATION".
 4. ONE-STEP EXCAVATION IS A PRACTICE WHERE A CHANNEL OR A PORTION OF A CHANNEL IS EXCAVATED TO NEAT GRADE WITH A TRACK EXCAVATOR OR A GRADALL. NO FILL IS ALLOWED TO ADJUST OVER-EXCAVATED AREAS TO GRADE. ONCE THE GRADE IS CUT, NO MACHINERY IS ALLOWED IN THE BOTTOM OF THE DITCH OR CHANNEL FOR FINE GRADING. FINE GRADING AND SOWING OF SEED OR SPRIGGING MUST BE ACCOMPLISHED BY HAND.

NO.	DATE	REVISION	BY

CITY OF NOLANVILLE
101 NORTH 5TH STREET
NOLANVILLE, TEXAS 76559

PHASE ONE NOTES & ABBREVIATIONS

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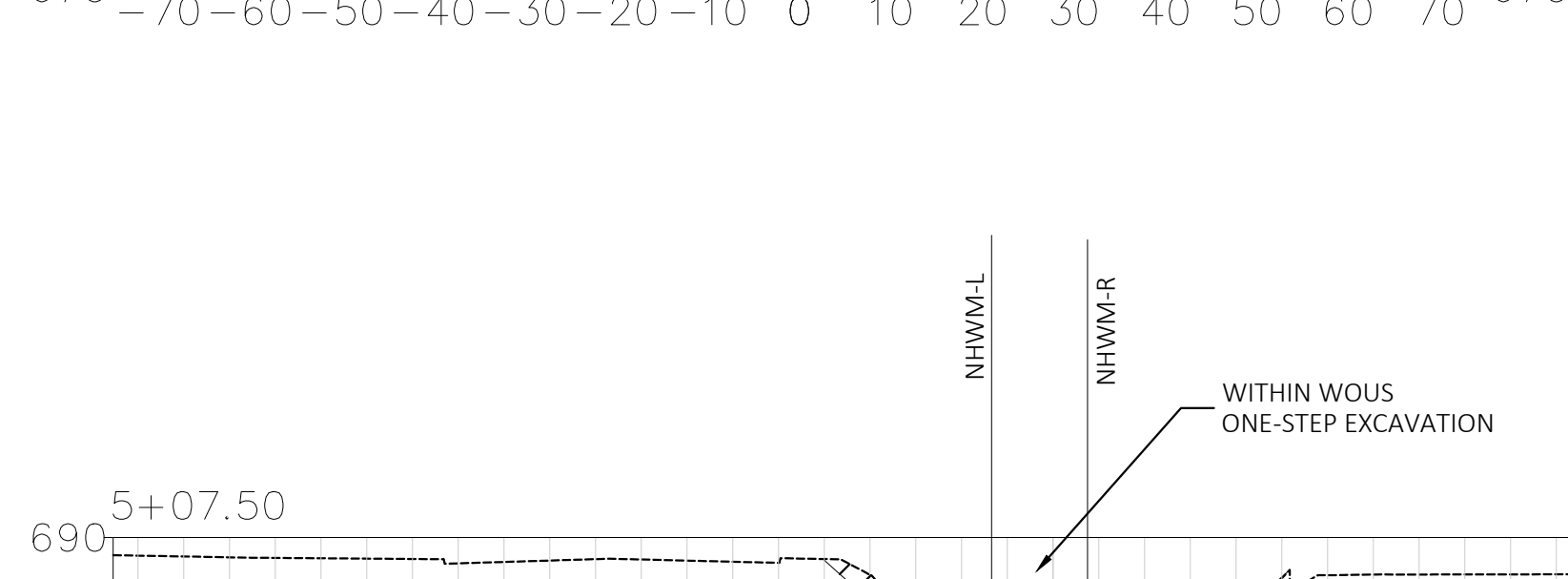
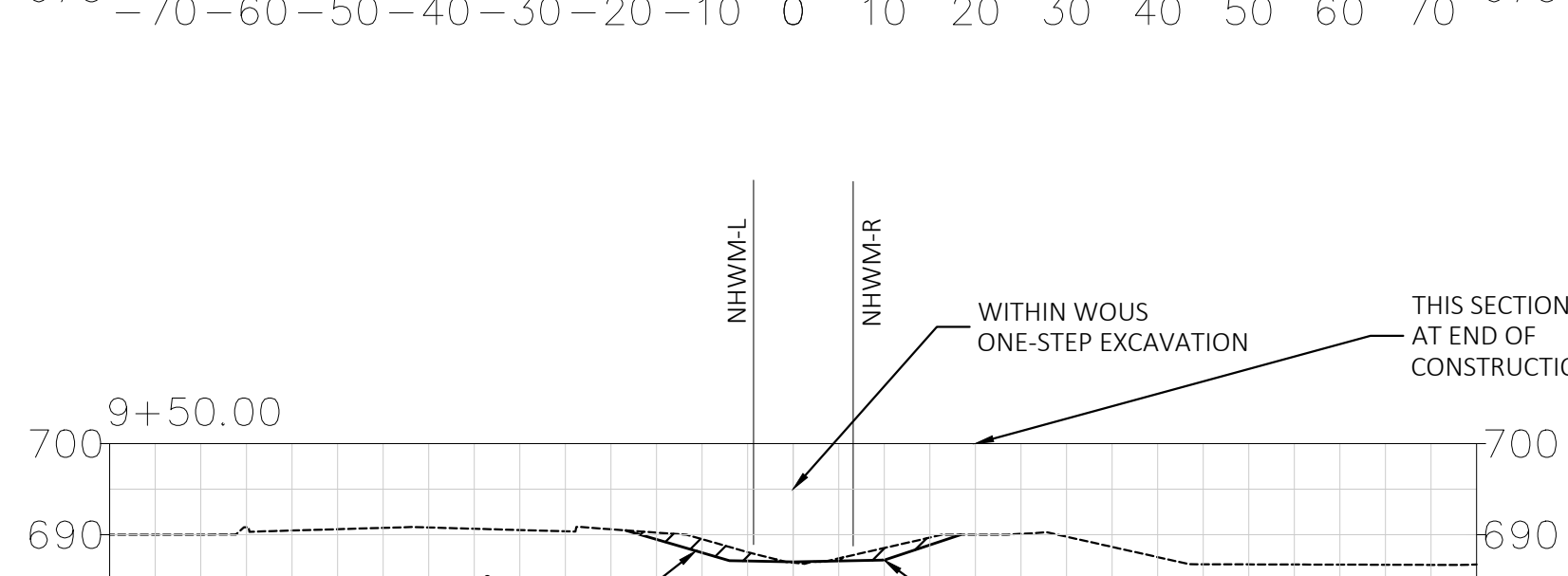
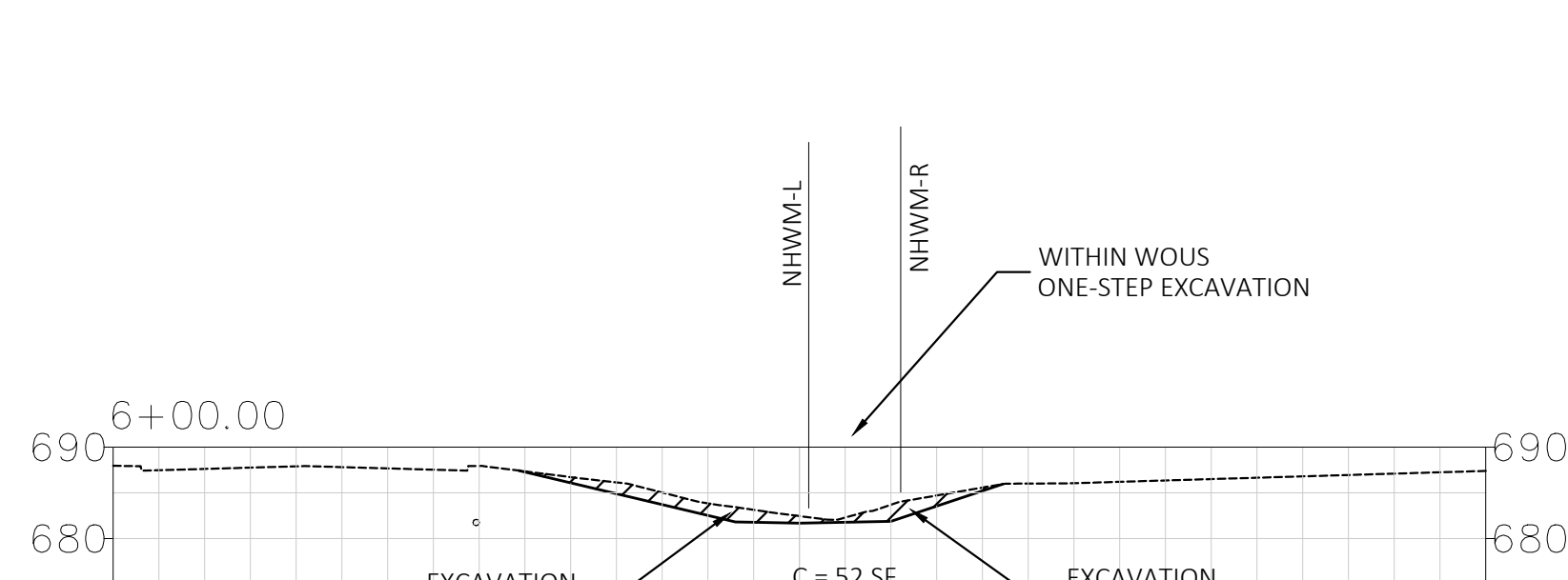
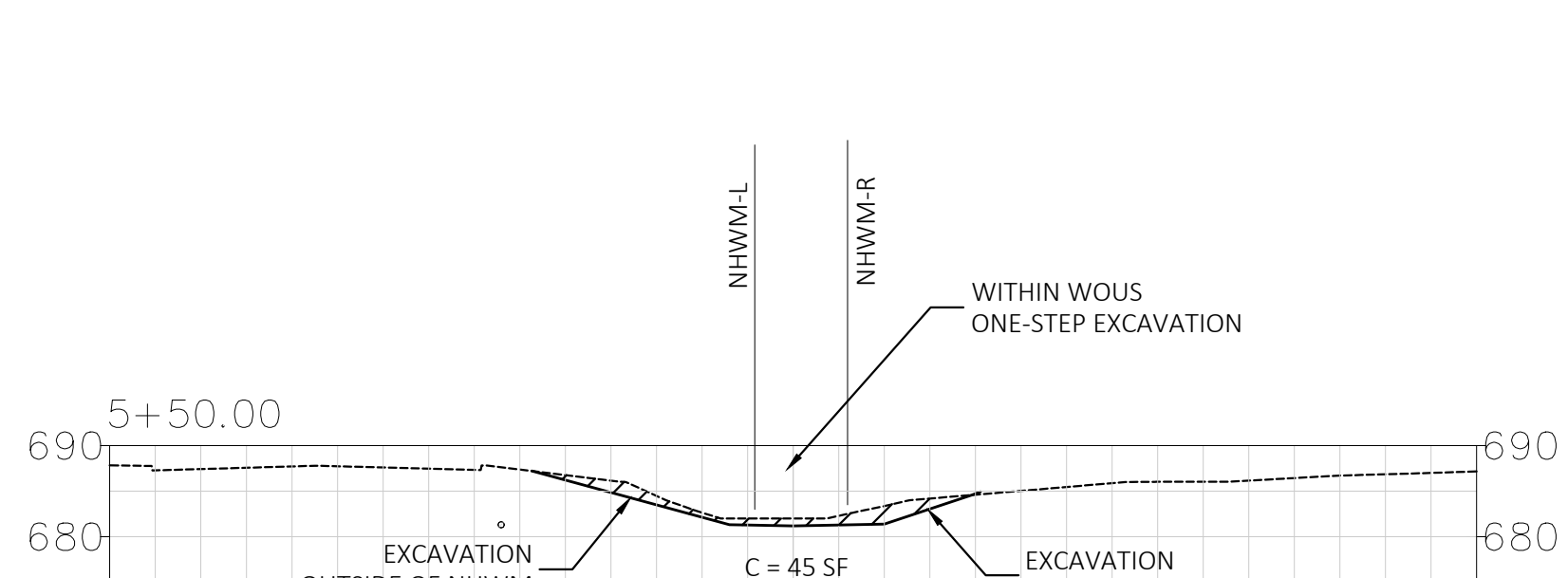
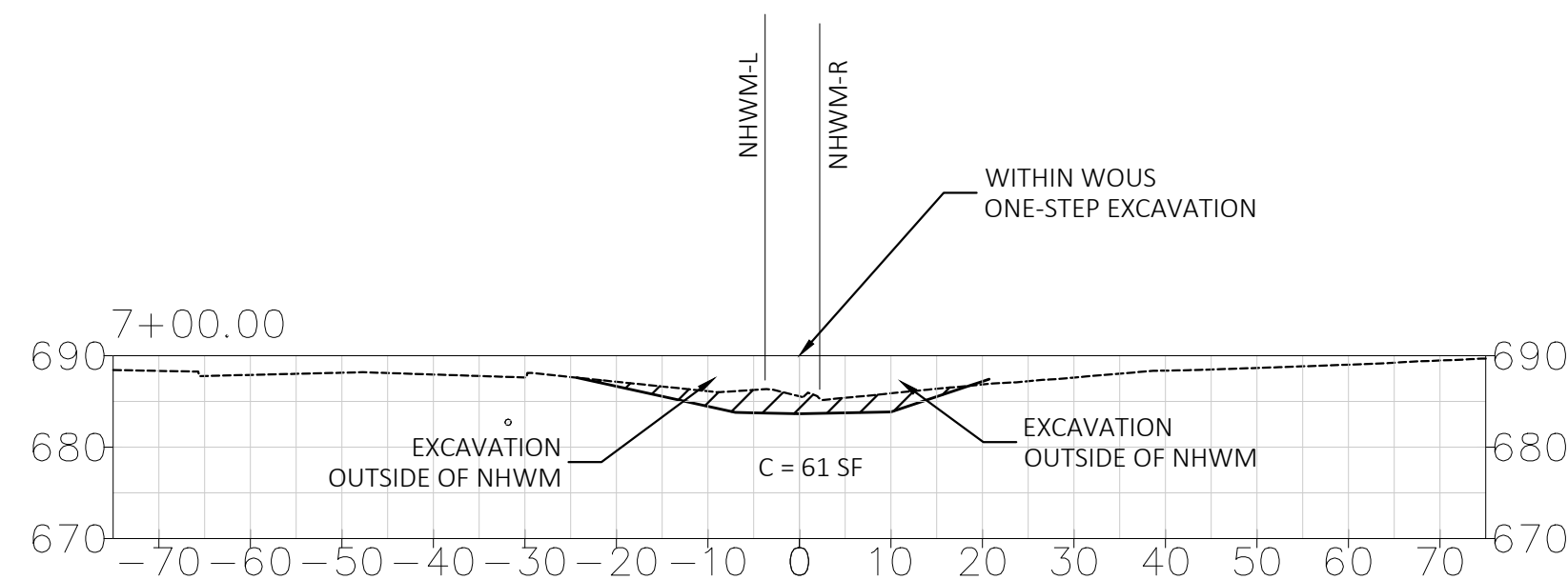
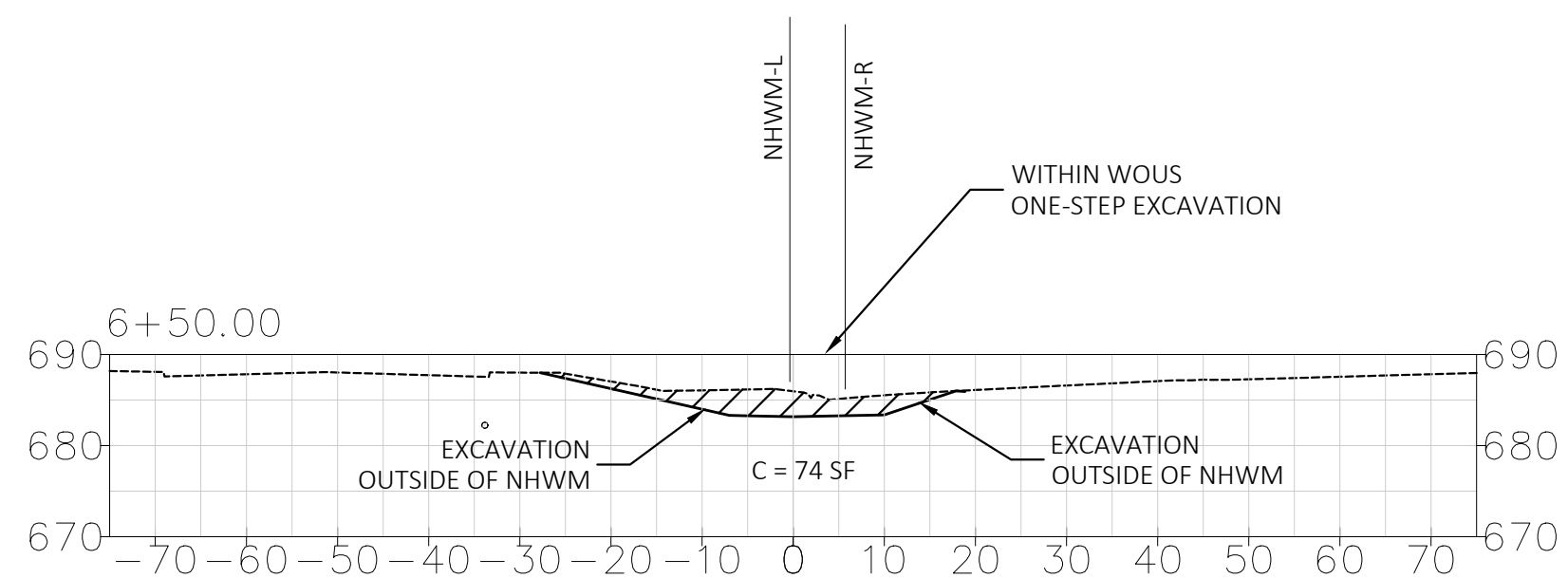
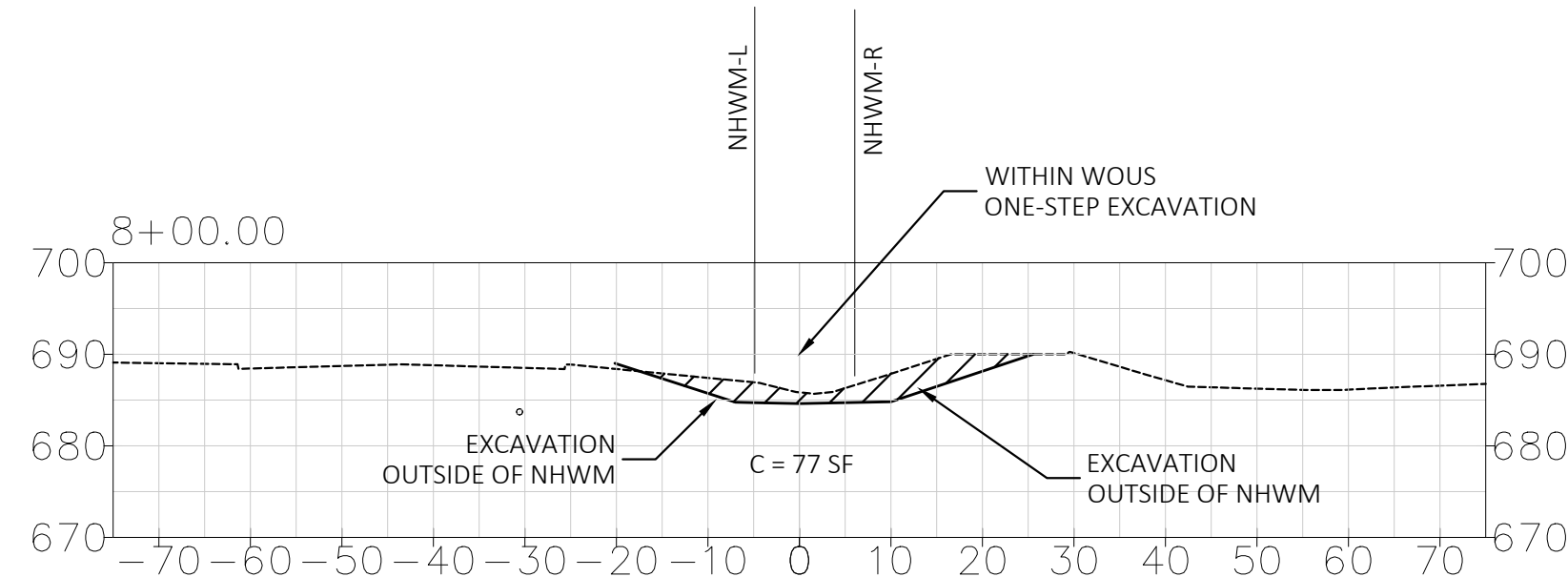
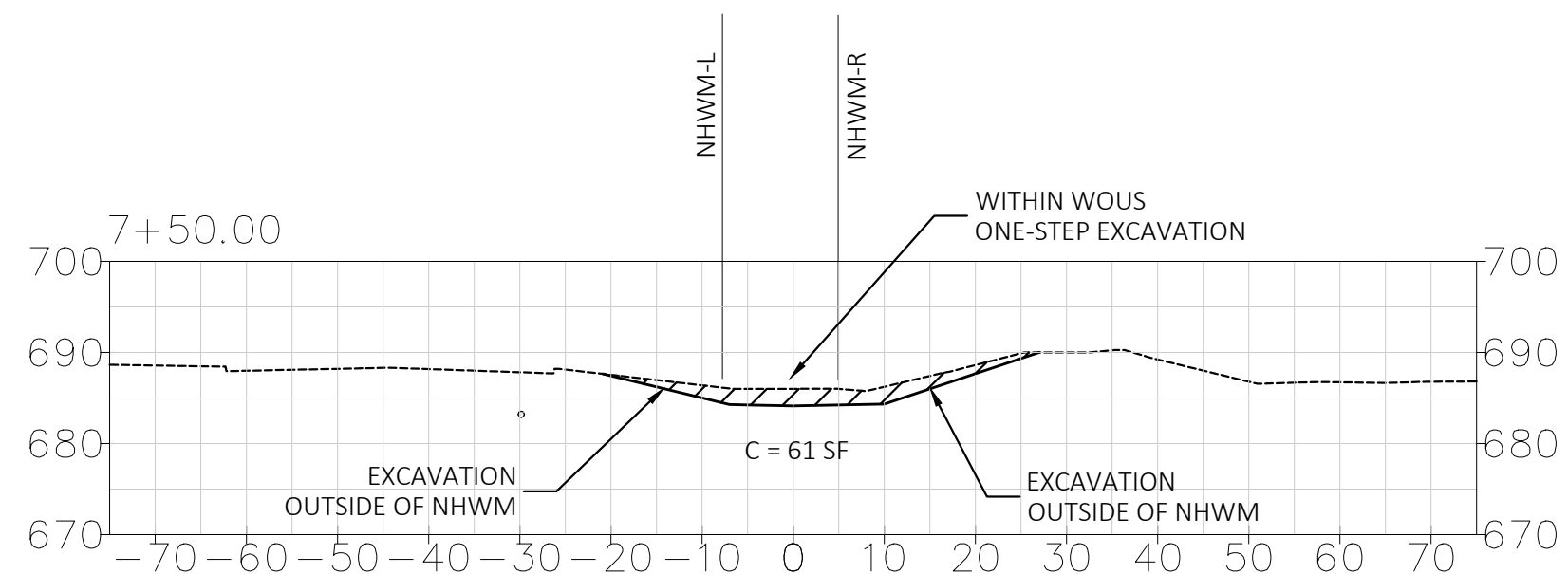
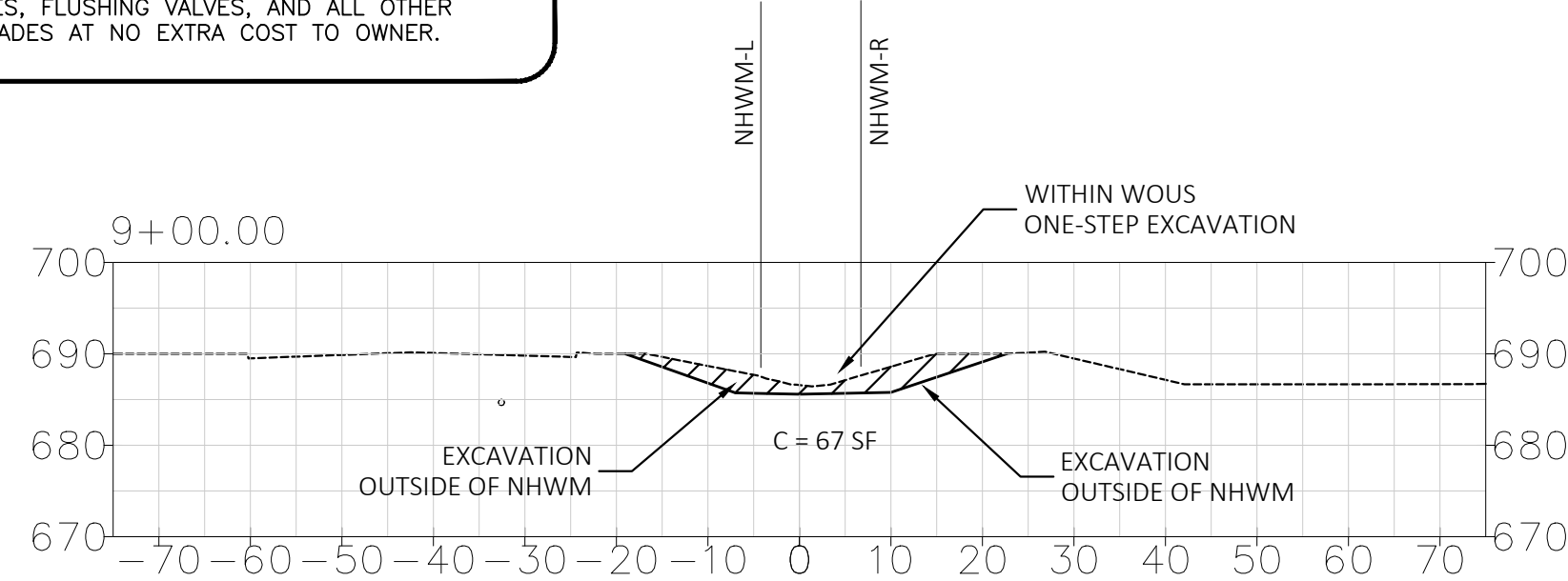
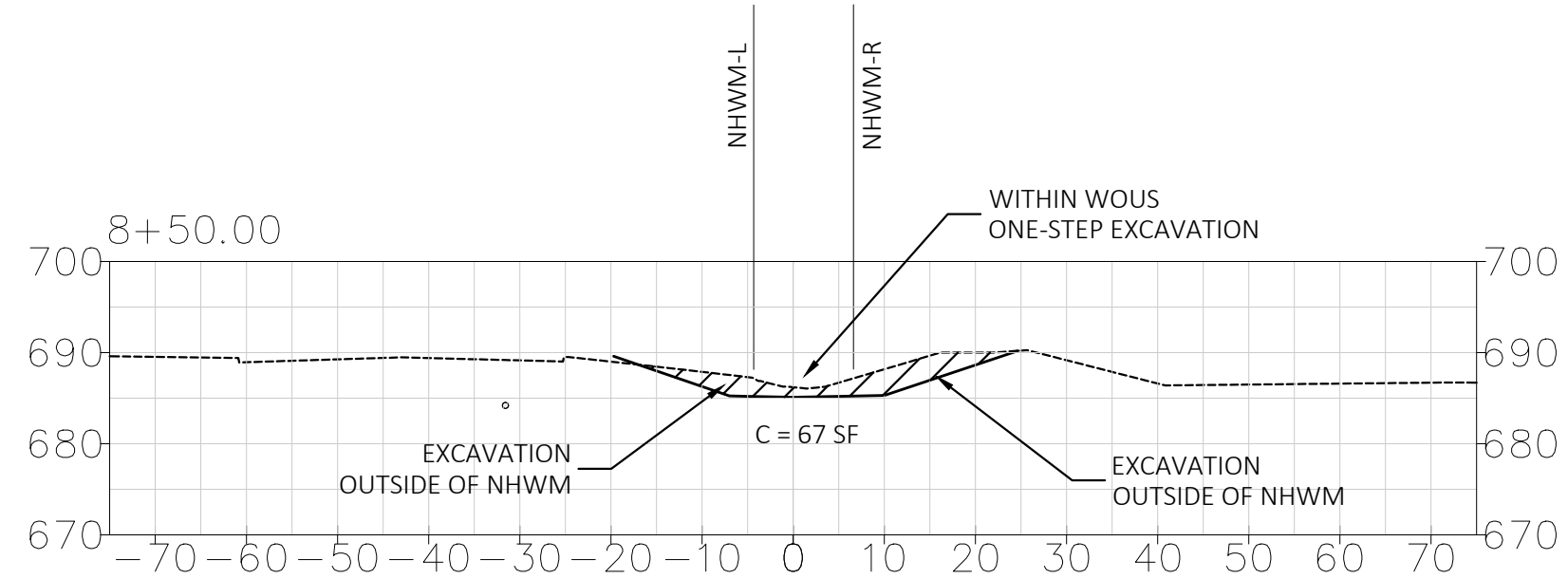
John Hart Bandas

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DATE:	2-Apr-24
DRAWN BY:	JHB
DESIGNED BY:	JHB
CHECKED BY:	JHB
PROJECT #:	24-001
SHT. #	2
OF	8

PHASE ONE CONSTRUCTION PLANS

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, BOTH ABOVE AND BELOW GROUND PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL REPAIR ALL DAMAGED UTILITIES TO EQUAL OR BETTER CONDITION AND TO THE SATISFACTION OF THE UTILITY OWNER. TELEPHONE NUMBERS:
 BELL COUNTY WCID NO. 3 (254) 698-6885 (UTILITY PROVIDER FOR NOLANVILLE)
 OWEN HALL - SUPERINTENDENT
 CITY OF NOLANVILLE (254) 698-6335
 NON-MUNICIPAL UTILITIES 1-800-DIG TESS
 IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND/OR HIS SUB-CONTRACTOR TO ADJUST ALL MANHOLES, CLEANOUTS, FIRE HYDRANTS, VALVE BOXES, WATER SERVICES, METER BOXES, FLUSHING VALVES, AND ALL OTHER APPURTENANCES TO ACTUAL FINAL GRADES AT NO EXTRA COST TO OWNER.



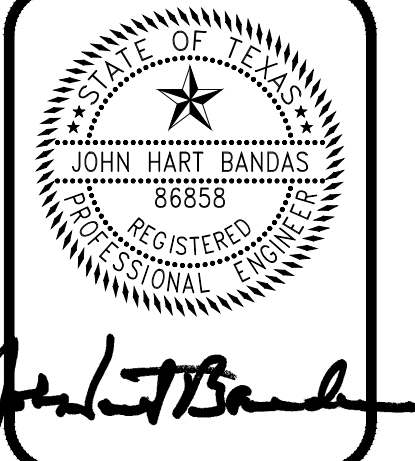
SCALE:
 1" = 20' H
 1" = 20' V

- CHANNEL EXCAVATION NOTES:
1. CHANNEL EXCAVATION SHALL BE PERFORMED BY "ONE-STEP EXCAVATION".
 2. "ONE-STEP EXCAVATION" IS DEFINED BY THE US ARMY CORPS OF ENGINEERS AS BEING AN EXCAVATION METHOD WHICH DOES NOT ALLOW MOBIL MACHINERY, WHETHER WHEELED OR TRACK-LAYING, TO MOVE ACROSS OR OCCUPY THE SURFACE OF THE CUT WITHIN THE LIMITS OF THE WATERS OF THE US ("WOTUS" OR JURISDICTIONAL WATERS).
 3. THIS IS NORMALLY ACCOMPLISHED USING AN EXCAVATOR OR A GRADALL TO CUT NEAT GRADE ON THE BOTTOM.
 4. EXCAVATION AND GRADING ON THE SLOPES ABOVE THE LIMITS OF THE WOTUS CAN BE PERFORMED BY CONVENTIONAL MEANS.
 5. FINE GRADING AND TILLAGE ON SLOPES CAN BE BY CONVENTIONAL MEANS.
 6. FINE GRADING OF CHANNEL BOTTOM CANNOT USE MOBIL MACHINERY, WHETHER WHEELED OR TRACK-LAYING.
 7. TOP OF RENO MATTRESSES SHALL CONFORM TO CHANNEL FINISHED GRADES AS SHOWN IN THE PLANS.

CHANNEL EXCAVATION QTY.		
STATION	CUT X-SECT AREA	S CUT VOLUME
5+50	45	0
6+00	57	94
6+50	74	215
7+00	61	340
7+50	61	453
8+00	77	581
8+50	67	714
9+00	67	838
9+50	28	926
CADD SURFACE COMPARISON		
EXCAVATION		970 BCY
EMBANKMENT		10 BCY

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 DESIGNED BY: JHB
 CHECKED BY: JHB
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SHT. #
 4
 OF 8

CITY OF NOLANVILLE
 101 NORTH 5TH STREET
 NOLANVILLE, TEXAS 76559

NOLANVILLE TRIBUTARY
 CROSS-SECTIONS

PHASE ONE CONSTRUCTION PLANS

CITY OF NOLANVILLE
101 NORTH 5TH STREET
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NORTH RIDGE DETENTION
OUTLET STRUCTURE

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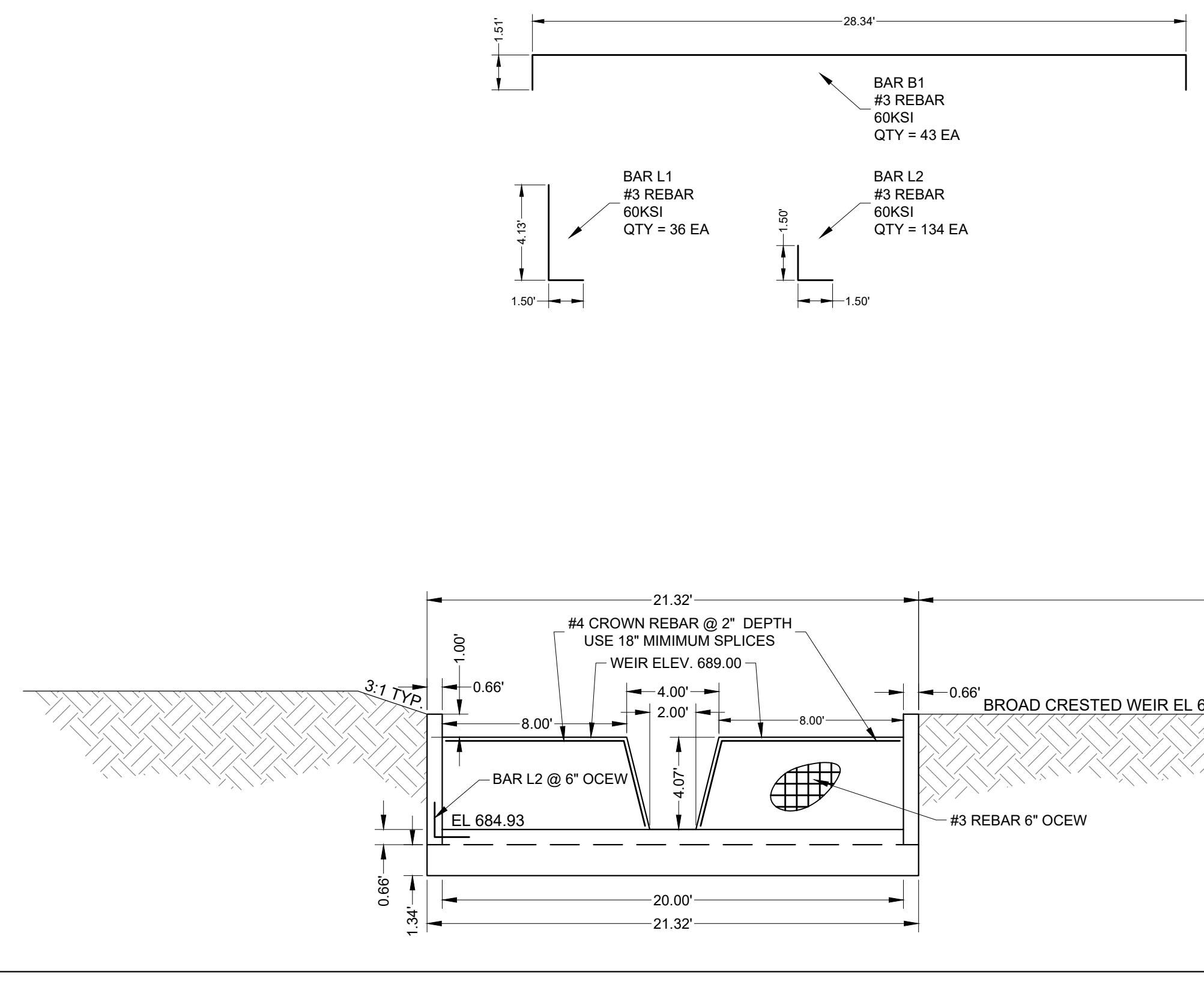
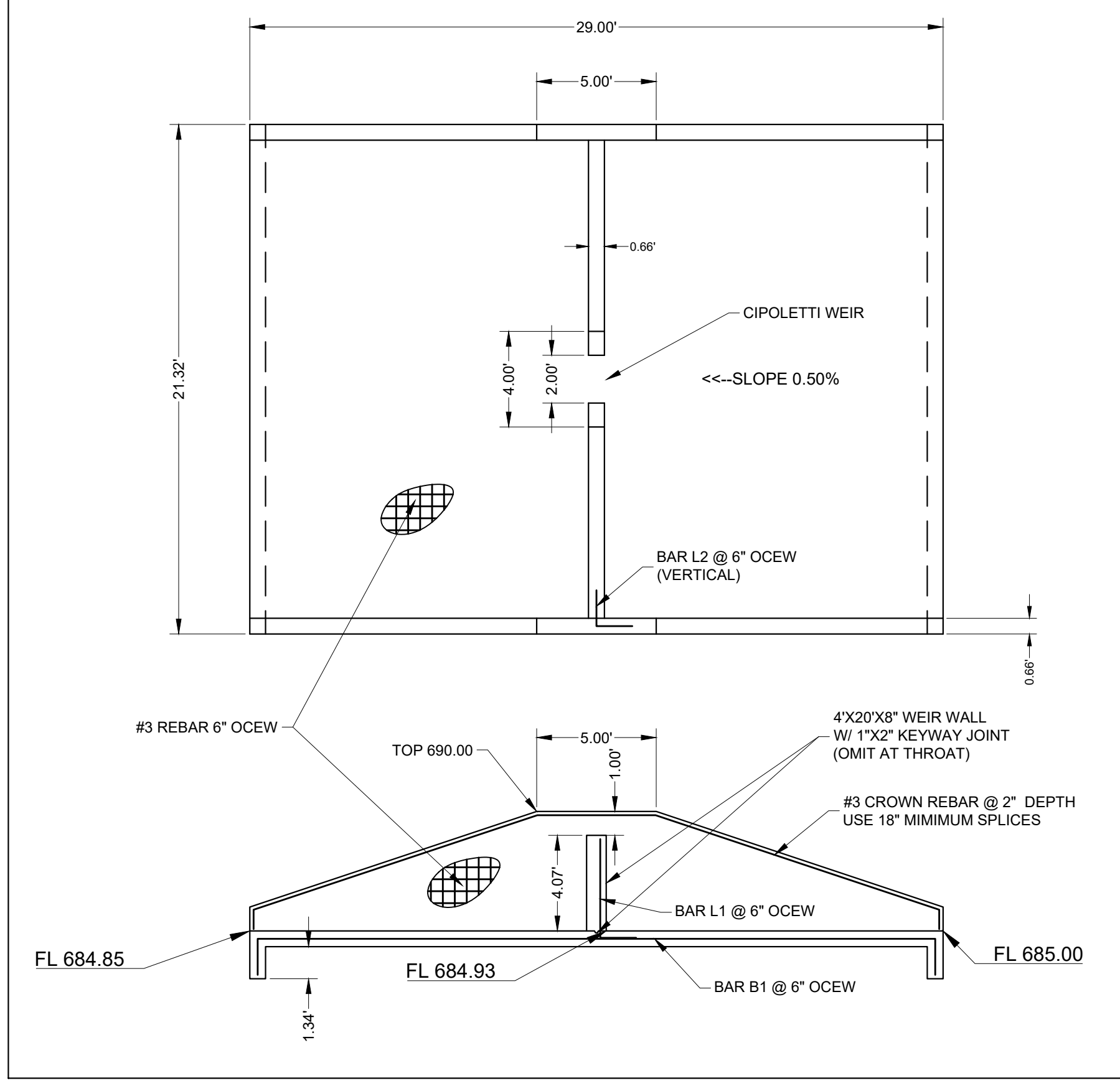


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SHT. # 5 OF 8

NOLAN RIDGE POND OUTLET DETAIL
SCALE: 1" = 5.0'



- CONCRETE NOTES:**
- ALL CONCRETE WORK MUST CONFORM TO CITY OF NOLANVILLE STANDARDS. CONCRETE SHALL BE PLACED ON SUBGRADE COMPACTED TO 95% OF STANDARD DRY DENSITY PER ASTM D-698.
 - SUBGRADE SHALL BE ACCURATE SHAPED AND FINE-GRADED TO AN ELEVATION 6 INCHES BELOW THE FINISHED GRADE.
 - THE CONTRACTOR SHALL NOT PLACE ANY CONCRETE UNTIL THE SUBGRADE HAS BEEN TESTED AND APPROVED BY THE CITY OF NOLANVILLE INSPECTOR.
 - ALL EXPOSED FORMED SURFACES SHALL BE RUBBED FINISHED.
 - ALL EDGES SHALL HAVE A 3/4" CHAMFER.
 - CONCRETE SHALL BE 3000 PSI WITH 1" AGGREGATE.
 - REBAR SHALL BE 60 KSI #3 @ 12" O.C.E.W.
 - BENT BARS SHALL BE MECHANICALLY BENT (NO HEATING).
 - LAP REINFORCING 30 BAR DIAMETERS MIN. AT SPLICES, UNLESS NOTED OTHERWISE.
 - CROWN REBAR SHALL BE TIED IN WITH WALL REBAR.
 - ALL CURING COMPOUND SHALL BE WHITE-PIGMENTED MEETING LATEST TXDOT SPECIFICATION.

- OVERFLOW EROSION CONTROL NOTES:**
- USE NORTH AMERICAN GREEN VMAX S200 OR APPROVED EQUIVALENT.
 - TURN EDGES DOWN 1"
 - APPLY TOPSOIL, SEED AND FERTILIZER.
 - WATER UNTIL TURF IS ESTABLISHED.

MACCAFERRI GABION MAT DETAIL

MACCAFERRI
TECHNICAL DATA SHEET
Rev. 02, Issue Date 06.30.2013

GABION MAT GALVANIZED & PVC COATED

Product Description
The gabion mat is a structure manufactured from hexagonal double twisted wire mesh type as per ASTM A975 (Fig. 2). They are filled with stones and closed using lids at the project site to form flexible, permeable, monolithic structures such as channel linings and scour aprons for erosion control projects.

Wire
All tests on wire must be performed prior to manufacturing the mesh. All wire should comply with ASTM A975, style 3 coating, galvanized and PVC coated steel wire. Wire used for the manufacture of gabion mats and the lacing wire, shall have a minimum tensile strength of 75,000 psi (515 MPa) as per ASTM A641/A641, soft temper steel.

Woven Wire Mesh Type 8x10
The mesh and wire characteristics shall be in accordance with ASTM A975 Table 1, Mesh type 8x10 and PVC coated. The nominal mesh opening, D = 3.25 in. (83 mm) as per Fig. 2. The minimum mesh properties for strength and flexibility should be in accordance with the following:

- Mesh Tensile Strength shall be a minimum of 3425 lbs (1520 kN) when tested in accordance with ASTM A975 section 13.1.1.
- Punch Test resistance shall be a minimum of 5200 lb (23.6 kN) when tested in compliance with ASTM A975 section 13.1.4.
- Connection to Selvedges shall be 1200 lbf (17.5 kN/m) when tested in accordance with ASTM A975.

P.V.C. (Polyvinyl Chloride) Coating
The technical characteristics and the resistance of the PVC to aging should meet the relevant standards. The main values for the PVC material are as follows:

- The initial property of the PVC coating shall be in compliance with ASTM A975 section 8.2.
- Prior to UV and abrasion degradation, the PVC polymer coating shall have a projected minimum durability of 60 years when tested in accordance with UL 746B Polymeric Material—Long Term Property Evaluation for heat aging test.

Lacing, Assembly and Installation
Lacing operations to assemble and connect gabion mat units are made by using lacing wire specified in Table 3 and described in Fig. 3. Stainless steel ring fasteners can be used instead of or to complement the lacing wire (Fig. 4 and Fig. 5). Stainless steel rings for PVC coated gabion mats shall be in accordance with ASTM A975 section 6.3. Spacing of the rings shall be in accordance with ASTM A975 Table 2, Panel to Panel connection, Pull-Apart Resistance, in any case, ring fasteners spacing shall not exceed 6 in. (150 mm) (Fig. 3). The rings can be installed using pneumatic or manual tools (Fig. 5). For full details, please see the Gabion Mat Product Installation Guide.

The average maximum resistance of the fasteners from the field shall not be lower than 90% of the resistance provided in the certification.

MACCAFERRI

Maccaferri reserves the right to amend product specifications without notice and specifiers are requested to check as to the validity of the specifications they are using.

Table 1—Sizes for gabion mats

L-Length ft (m)	W-Width ft (m)	Height ft (m)	# of cells
99 (30)	6 (1.9)	1 (0.3)	22
99 (30)	9 (2.8)	1 (0.3)	33
99 (30)	6 (1.9)	1.5 (0.45)	32
99 (30)	9 (2.8)	1.5 (0.45)	33
60 (19')	6 (1.9)	1 (0.3)	14
60 (19')	9 (2.8)	1 (0.3)	21
60 (19')	6 (1.9)	1.5 (0.45)	14
60 (19')	9 (2.8)	1.5 (0.45)	21

Table 2—Standard mesh-wire

Type	D in. (mm)	Tolerance	Internal Wire Dia in. (mm)	External Wire Dia in. (mm)
4x19/2W-PVC	3.25 (83)	±10%	0.106 (2.70)	0.148 (3.70)

Table 3—Standard wire diameters

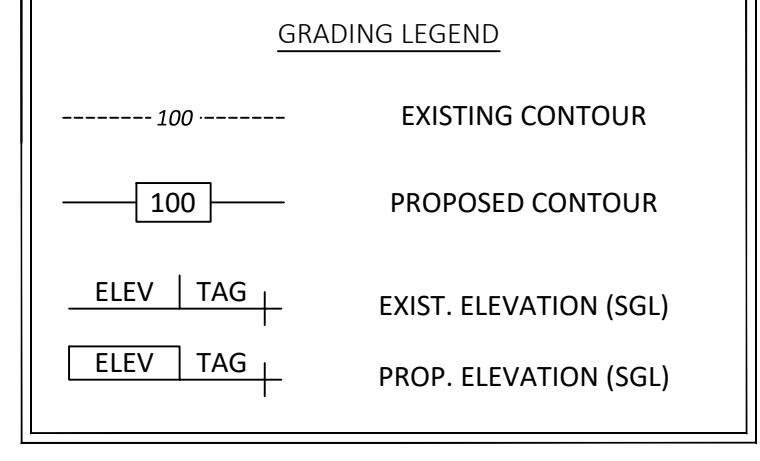
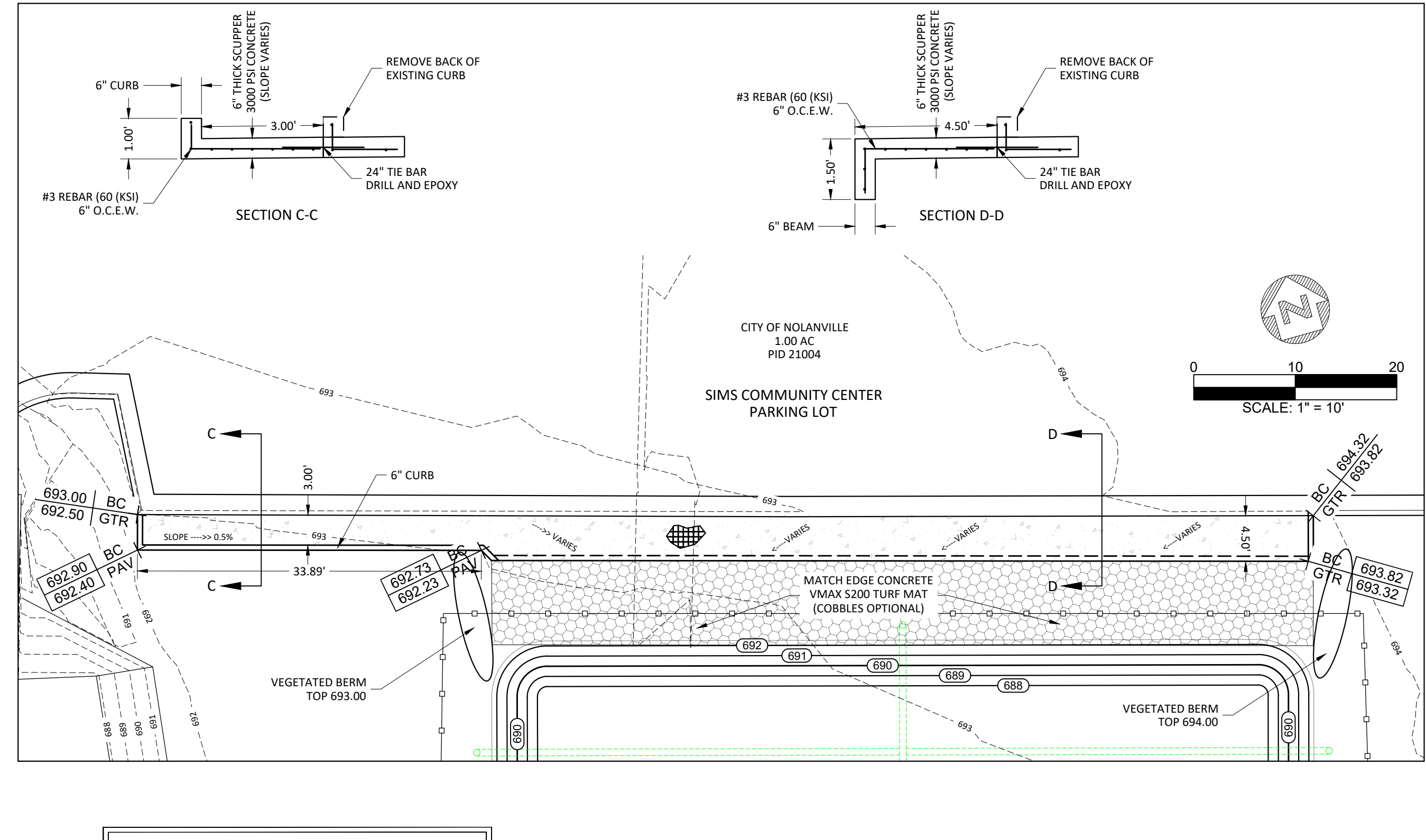
PVC Mesh Diameter (in. (mm))	Lacing Wire Mesh (in. (mm))	Selvedge Wire (in. (mm))
0.087 (2.20)	0.106 (2.70)	0.134 (3.40)
0.106 (2.70)	0.125 (3.18)	0.154 (3.90)
0.125 (3.18)	0.144 (3.66)	0.174 (4.40)

Quantity Request
When requesting a quotation, please specify:

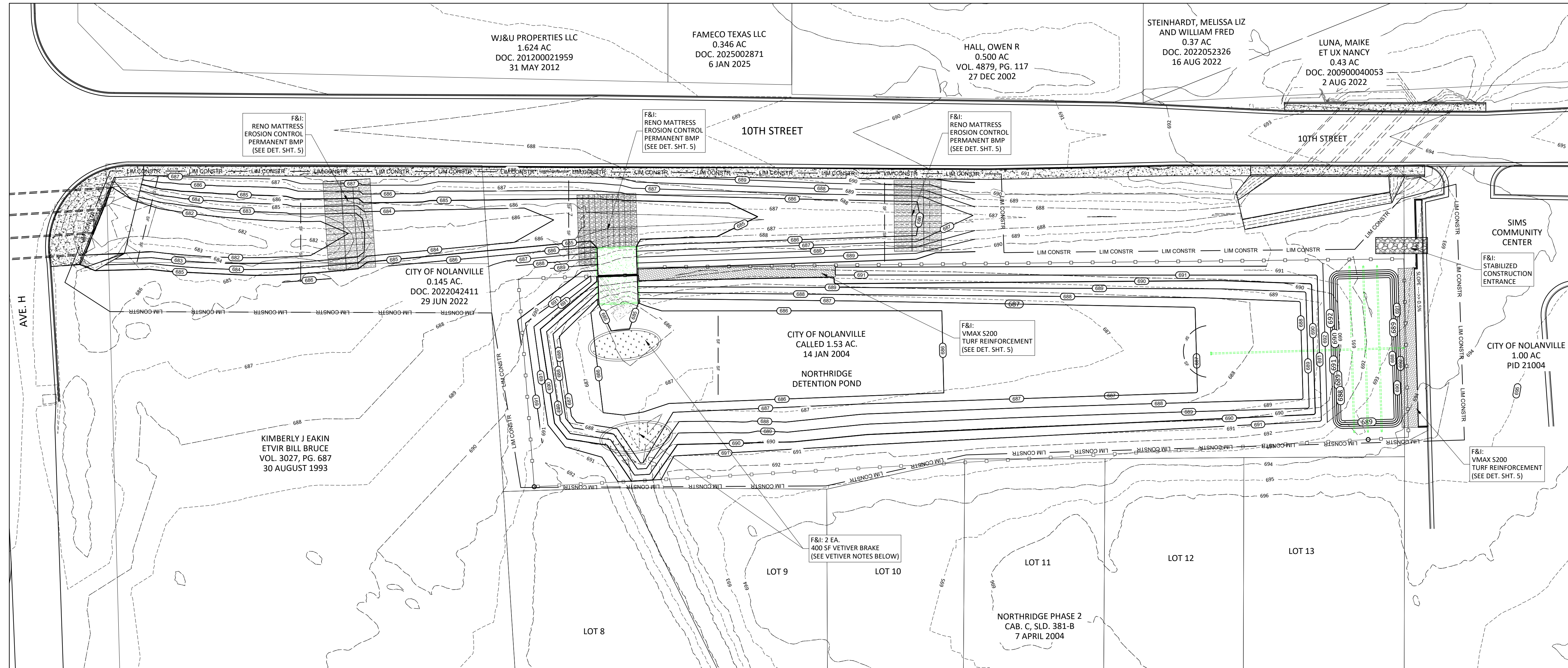
- number of units,
- size of units (length x width x height, see Fig. 1),
- type of mesh,
- type of coating.

EXAMPLE: No. 100 gabion mats, 99x6x1, Mesh type 8x10, Wire diam. 0.106 in. (2.70 mm), Galvanized + PVC coated.

MACCAFERRI, INC. Area Offices:
AZ, Phoenix; MO, St. Louis; PR, Caguas; CA, Sacramento; NJ, Iselin; TX, Lufkin; FL, Coral Gables; MA, Abingdon; WA, Seattle; MD, Williamsport; CO, Columbine



IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, BOTH ABOVE AND BELOW GROUND PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL REPAIR ALL DAMAGED UTILITIES TO EQUAL OR BETTER CONDITION AND TO THE SATISFACTION OF THE UTILITY OWNER. TELEPHONE NUMBERS: BELL COUNTY WCD NO. 3 (254) 698-6885 (UTILITY PROVIDER FOR NOLANVILLE) OWEN HALL - SUPERINTENDENT CITY OF NOLANVILLE (254) 698-6335 NON-MUNICIPAL UTILITIES 1-800-DIG TESS IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND/OR HIS SUB-CONTRACTOR TO ADJUST ALL MANHOLES, CLEANOUTS, FIRE HYDRANTS, VALVE BOXES, WATER SERVICES, METER BOXES, FLUSHING VALVES, AND ALL OTHER APPURTENANCES TO ACTUAL FINAL GRADES AT NO EXTRA COST TO OWNER.



EROSION CONTROL NOTES:

1. DISTURBED AREA IS 87,100 SF (2.00 ACRES).
2. GENERAL CONTRACTOR SHALL INSTALL ALL SWPPP MEASURES AS REQUIRED BY TCEQ CGP TXR150000, KEEP ALL RECORDS AS REQUIRED, AND ACT AS SITE OPERATOR FOR DURATION OF CONSTRUCTION.
3. INSTALL ALL INITIAL BMP'S PRIOR TO COMMENCING WORK.
4. IT IS PERMISSIBLE TO STRIP & SAVE SOD FROM DISTURBED AREA FOR REUSE.
5. MODIFY BMP'S AS NECESSARY DURING PROJECT.
6. RESTORE ALL BERMUDA TURF AFTER CONSTRUCTION TO BETTER OR EQUAL CONDITION STRIP & SAVE SOD FROM DISTURBED AREA FOR REUSE.
7. AFTER COMPLETE STABILIZATION REMOVE ALL TEMPORARY BMP'S AND PERFORM FINAL CLEANUP.
8. CONSTRUCT CONCRETE WASHOUT ON SIMS CENTER PARKING LOT PRIOR TO PLACING CONCRETE. REMOVE AND CLEANUP AFTER CONCRETE IS COMPLETE.
9. SWEEP PAVED SURFACES AS NEEDED TO PREVENT TRACKING ONTO PUBLIC ROADWAYS AND PARKING LOTS.

VETIVER NOTES:

1. VETIVER IS A PLANTING FOR EROSION CONTROL
2. VETIVER IS AVAILABLE FROM MOSQUITO HAWK FARM ANAHUAC, TEXAS
WARREN SULLIVAN, PROPRIETOR
PHONE: 1-785-550-8297
WARRENSKULLY@GMAIL.COM

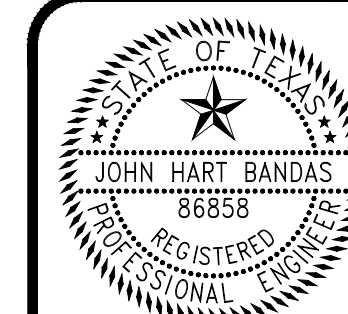
EROSION CONTROL LEGEND:

- SF — SILT FENCE
- WTL — WATTLE
- LIM CONSTR — LIMIT OF CONSTRUCTION
- VETIVER PLANTING (PERMANENT BMP)
- CONC. WASH-OUT
- RENO MATTRESS (PERMANENT BMP)
- VMAX S200 TURF REINFORCEMENT (PERMANENT BMP)
- STABILIZED CONSTRUCTION ENTRANCE



IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, BOTH ABOVE AND BELOW GROUND PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL REPAIR ALL DAMAGED UTILITIES TO EQUAL OR BETTER CONDITION AND TO THE SATISFACTION OF THE UTILITY OWNER.
TELEPHONE NUMBERS:
BELL COUNTY WCID NO. 3 (254) 698-6885 (UTILITY PROVIDER FOR NOLANVILLE)
OWEN HALL - SUPERINTENDENT
CITY OF NOLANVILLE (254) 698-6335
NON-MUNICIPAL UTILITIES 1-800-DIG TESS
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THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY JOHN HART BANDAS, P.E. #68858. ANY ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICES ACT. ORIGINAL DOCUMENT WITH SEAL, SIGNATURE, AND DATE IS ON FILE IN THE OFFICE OF THE ENGINEER AND IS AVAILABLE FOR EXAMINATION ON REQUEST.
DATE: MARCH 1, 2026



John Hart Bandas

DATE:	2-Apr-24
DRAWN BY:	JHB
DESIGNED BY:	JHB
CHECKED BY:	JHB
PROJECT #:	24-001

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7
OF 8

NO.	DATE	REVISION	BY

CITY OF NOLANVILLE
101 NORTH 5TH STREET
NOLANVILLE, TEXAS 76559

EROSION CONTROL PLAN

BANDAS ENGINEERING LLC
CIVIL ENGINEERING FIRM # F-3782
12238 ANTILLES LANE
CONROE, TEXAS 77304
(254) 760-9116 john.bandas@bandasengineering.com

SILT FENCE GENERAL NOTES:

- POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
- THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
- THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
- SILT FENCE SHOULD BE SECURELY FASTENED TO EACH SUPPORT POST OR TO WIRE BACKING, WHICH IN TURN IS ATTACHED TO THE FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
- INSPECTION SHALL BE AS SPECIFIED IN THE SWPPP. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- SILT FENCE SHALL BE REMOVED WHEN FINAL STABILIZATION IS ACHIEVED OR ANOTHER EROSION OR SEDIMENT CONTROL DEVICE IS EMPLOYED.
- ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

SILT FENCE

North Central Texas Council of Governments	STANDARD SPECIFICATIONS REFERENCE 202.5*
	DATE OCT. '04
	STANDARD DRAWING NO. 1020B

*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications, Public Works Construction Standards North Central Texas, Fifth Edition.

STABILIZED CONSTRUCTION ENTRANCE GENERAL NOTES:

- STONE SHALL BE 3 TO 5 INCH DIAMETER COARSE AGGREGATE.
- LENGTH SHALL BE AS SPECIFIED IN THE SWPPP.
- THE THICKNESS SHALL NOT BE LESS THAN 12 INCHES.
- THE WIDTH SHALL BE NO LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
- WHEN NECESSARY, VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WITH DRAINAGE FLOWING AWAY FROM BOTH THE STREET AND THE STABILIZED ENTRANCE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES MUST BE REMOVED IMMEDIATELY.
- THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
- PREVENT SHORTCUTTING OF THE FULL LENGTH OF THE CONSTRUCTION ENTRANCE BY INSTALLING BARRIERS AS NECESSARY.
- INSPECTION SHALL BE AS SPECIFIED IN THE SWPPP.

STABILIZED CONSTRUCTION ENTRANCE

North Central Texas Council of Governments	STANDARD SPECIFICATIONS REFERENCE 202.11*
	DATE OCT. '04
	STANDARD DRAWING NO. 1070B

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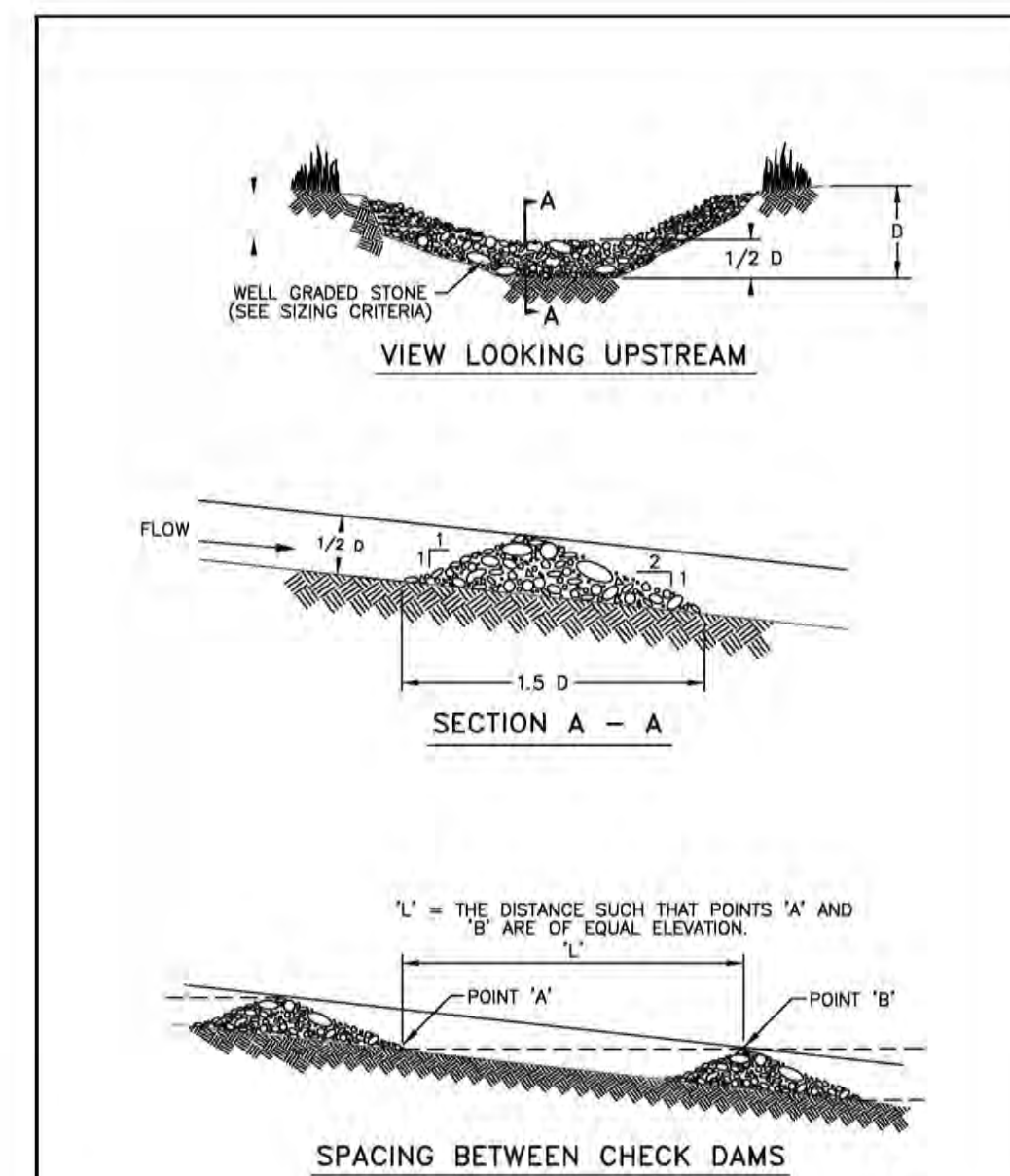
ROCK CHECK DAM GENERAL NOTES:

- STONE SHALL BE WELL GRADED WITH SIZE RANGE FROM 1 1/2 TO 3 1/2 INCHES IN DIAMETER DEPENDING ON EXPECTED FLOWS.
- THE CHECK DAM SHALL BE INSPECTED AS SPECIFIED IN THE SWPPP AND SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
- WHEN SILT REACHES A DEPTH EQUAL TO ONE-THIRD OF THE HEIGHT OF THE CHECK DAM OR ONE FOOT, WHICHEVER IS LESS, THE SILT SHALL BE REMOVED AND DISPOSED OF PROPERLY.
- WHEN THE SITE HAS ACHIEVED FINAL STABILIZATION OR ANOTHER EROSION OR SEDIMENT CONTROL DEVICE IS EMPLOYED, THE CHECK DAM AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

ROCK CHECK DAM

North Central Texas Council of Governments	STANDARD SPECIFICATIONS REFERENCE 202.9*
	DATE OCT. '04
	STANDARD DRAWING NO. 1060B

*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications, Public Works Construction Standards North Central Texas, Fifth Edition.



ROCK CHECK DAM

North Central Texas Council of Governments	STANDARD SPECIFICATIONS REFERENCE 202.9*
	DATE OCT. '04
	STANDARD DRAWING NO. 1060A

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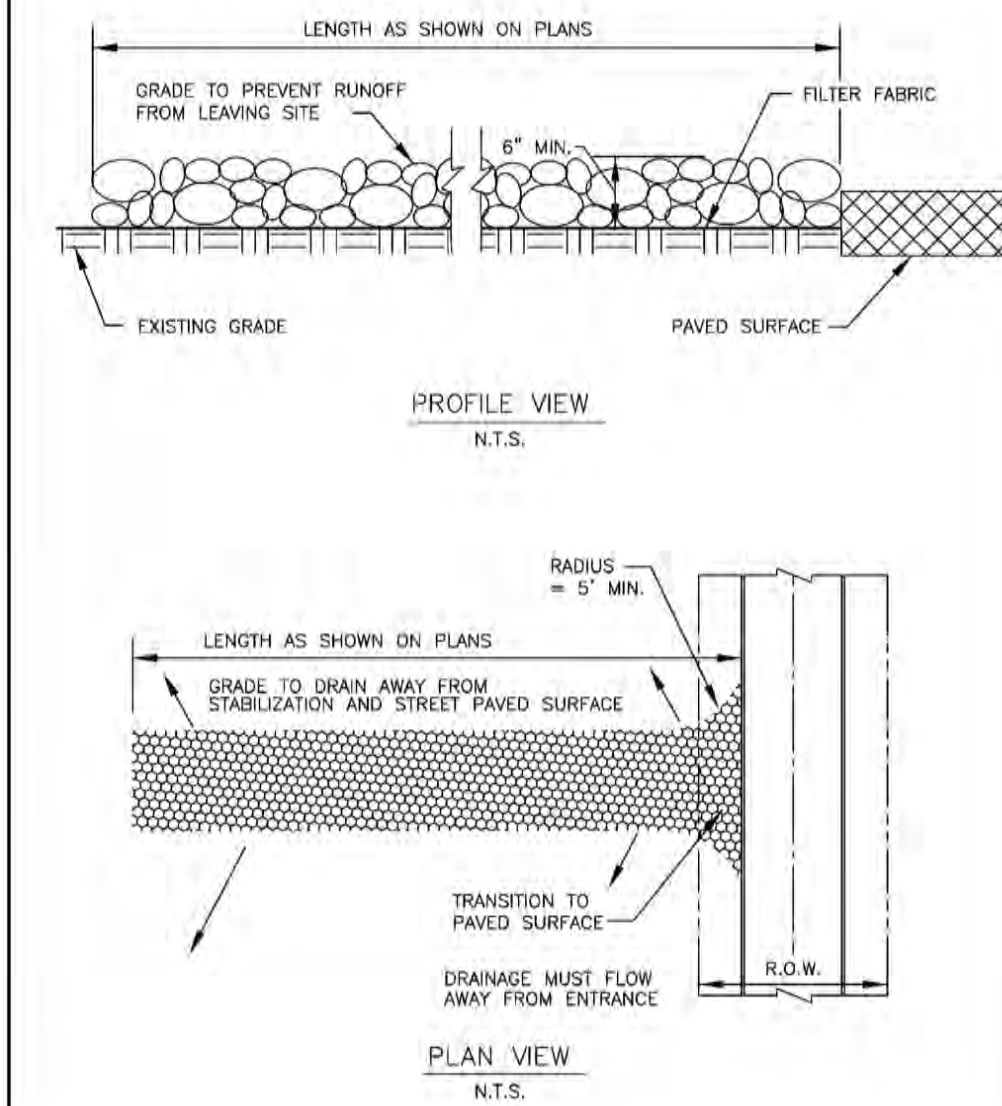
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SILT FENCE

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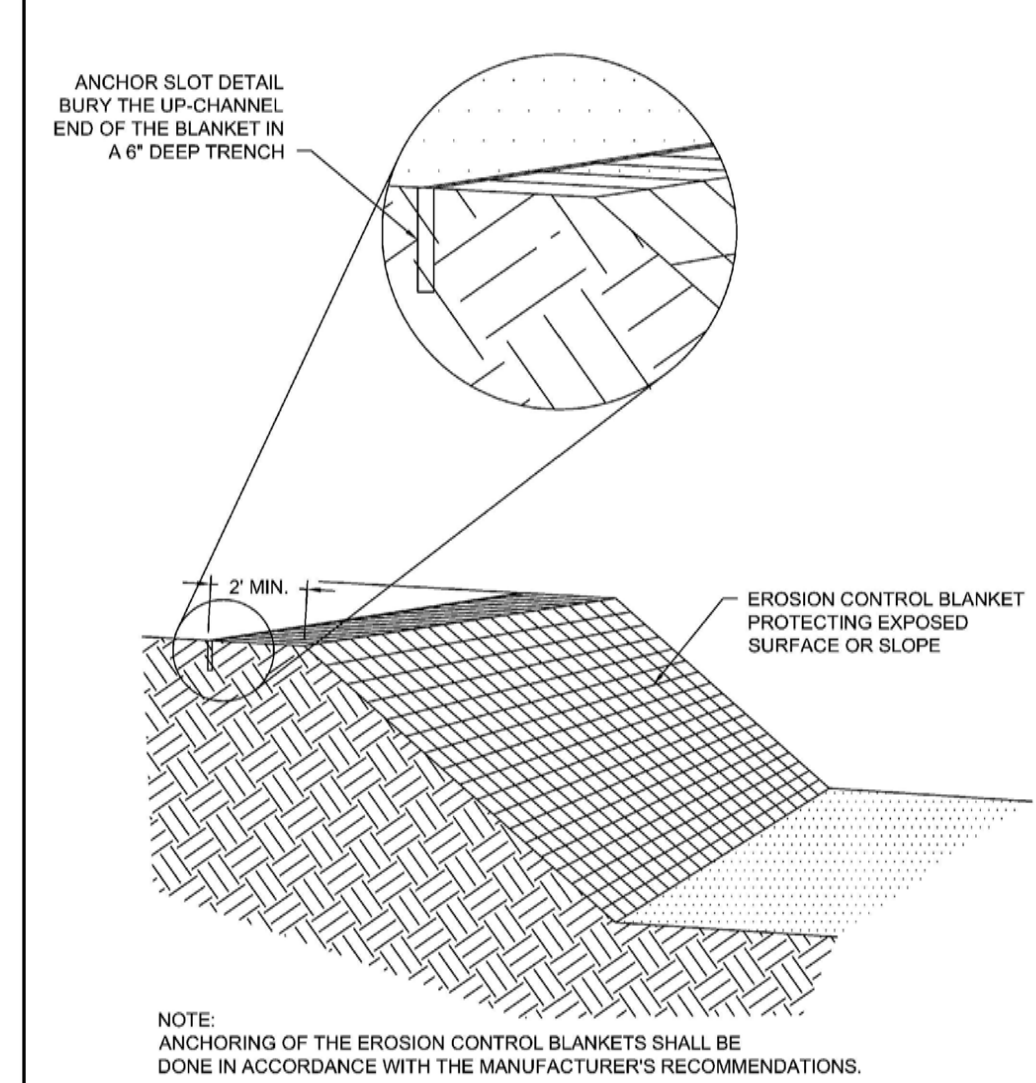
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STABILIZED CONSTRUCTION ENTRANCE

North Central Texas Council of Governments	STANDARD SPECIFICATIONS REFERENCE 202.11*
	DATE OCT. '04
	STANDARD DRAWING NO. 1070A

*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications, Public Works Construction Standards North Central Texas, Fifth Edition.



EROSION CONTROL BLANKETS

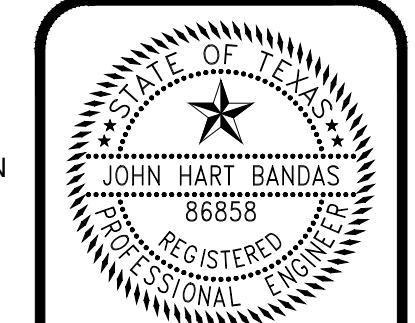
North Central Texas Council of Governments	STANDARD SPECIFICATIONS REFERENCE 202.15*
	DATE OCT. '04
	STANDARD DRAWING NO. 1160A

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DATE: MARCH 1, 2026



John Hart Bandas

DATE: 2-Apr-24	JHB
DRAWN BY: JHB	JHB
DESIGNED BY: JHB	JHB
CHECKED BY: JHB	JHB
PROJECT #: 24-001	

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OF 8

NO.	DATE	REVISION	BY

CITY OF NOLANVILLE
101 NORTH 5TH STREET
NOLANVILLE, TEXAS 76559

EROSION CONTROL
DETAILS

BANDAS ENGINEERING LLC
CIVIL ENGINEERING FIRM # F-3782
12238 ANTILLES LANE
CONROE, TEXAS 77304
(254) 760-9116 john.bandas@bandasengineering.com