MUSCOGEE (CREEK) NATION
MEAT PROCESSING FACILITY
WASTEWATER UTILITIES

OKMULGEE COUNTY, OKLAHOMA

FSB
MUSCOGEE (CREEK) NATION

INDEX OF SHEETS

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SEARCH, LLC
SYSTEMS ENGINEERING & RESEARCH
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P.O. BOX 722516, NORMAN OK 73070 TEL.(405) 364-0900
SEARCHengr.com

Oklahoma C.A. No. 106 Renewal 6-30-21

ALL SITE DESIGN NORTHINGS AND EASTINGS SHOWN ON THE PLANS REFERENCE THE NAD83 OKLAHOMA STATE PLANES, NORTH ZONE, US FOOT COORDINATE SYSTEM

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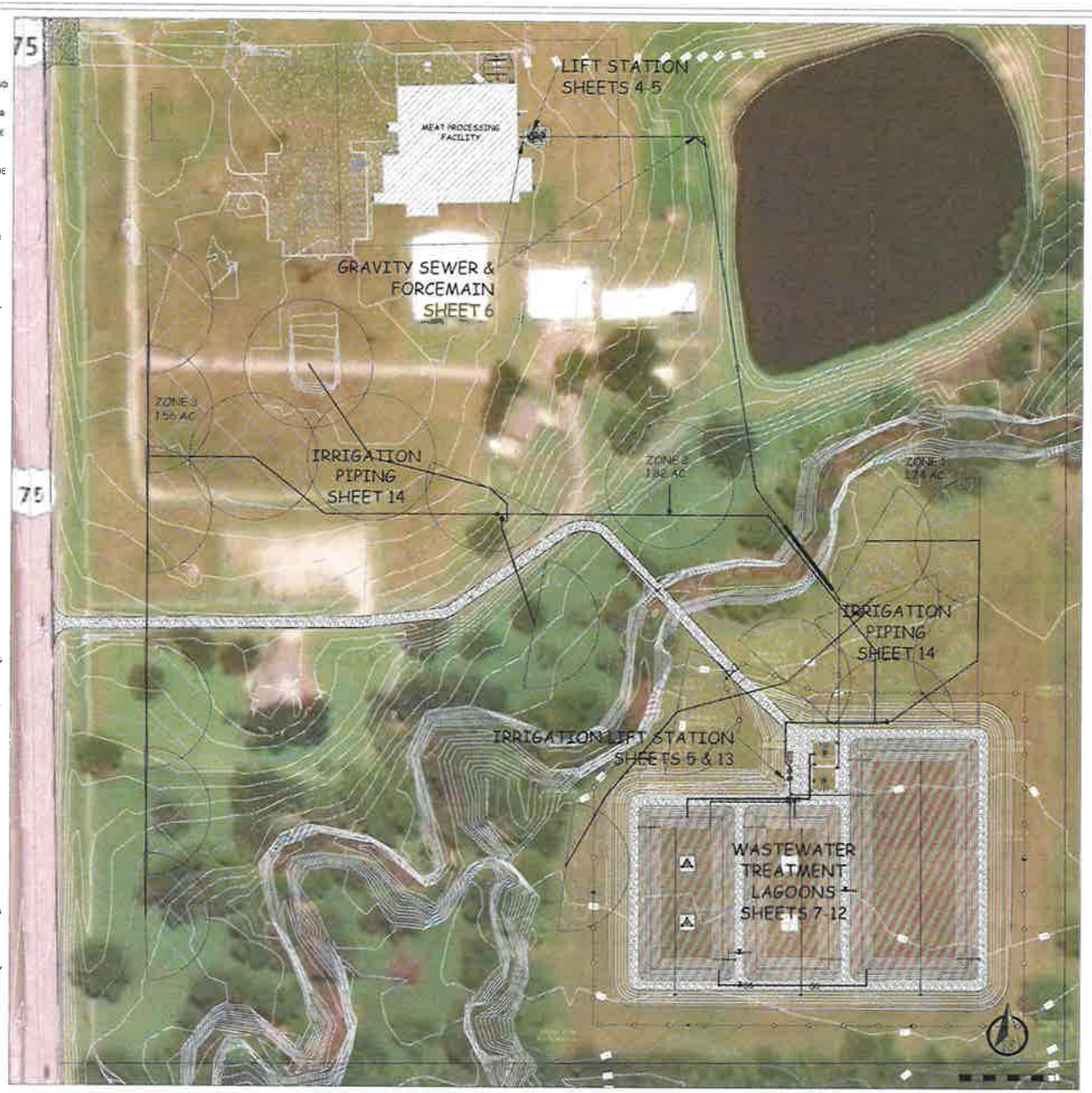
GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT REGULATIONS OF CONSTRUCTION STANDARDS CHAPTER 656 OF THE OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY TITLE 252 OKLAHOMA ADMINISTRATIVE CODE. FINAL APPROVAL AND ACCEPTANCE OF ALL CONSTRUCTION WILL BE BY THE MUSCOGEE (CREEK) NATION.
2. THE CONTRACTOR SHALL CONSTRUCT THE IMPROVEMENTS IN ACCORDANCE WITH THE SEALED AND SIGNED PLANS AND SPECIFICATIONS, PROVIDED BY THE ENGINEER.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION OF TEMPORARY FENCING OR OTHER PROTECTIVE MEASURES NECESSARY TO ENSURE LAND OWNER'S CATTLE AND/OR STOCK REMAIN FENCED AND PROTECTED FROM INJURY. THE COST FOR THE SAME TO BE INCLUDED IN THE BID PRICE.
4. ALL LABOR, MATERIALS AND SERVICE CHARGES BY UTILITIES REQUIRED TO PROVIDE ELECTRICAL, GAS, AND TELEPHONE SERVICE FOR THIS CONTRACT WILL BE INCLUDED IN THE BID PRICE FOR THE VARIOUS ITEMS.
5. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE SLAB SODDED WITH BERMUDA GRASS. THE COST OF THE SAME WILL BE INCLUDED IN THE PRICE BID.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL UNDERGROUND AND/OR OVERHEAD UTILITIES EITHER PUBLIC OR PRIVATE. THE COST OF THE SAME WILL BE INCLUDED IN THE PRICE BID INCLUDING ALL REQUIREMENTS RELATED TO TRENCH SAFETY.
7. ANY CONSTRUCTION PROCEDURE NOT COVERED BY THE PLANS AND SPECIFICATIONS WILL BE EXECUTED IN ACCORDANCE WITH PROPER CONSTRUCTION TECHNIQUES.
8. ALL AREAS DISTURBED DURING CONSTRUCTION (INCLUDING PAVEMENT, SIDEWALKS, DRIVES, APPROACHES, PARKING AND FENCES SHALL BE RESTORED WITH EQUAL OR BETTER THAN ORIGINAL MATERIALS.
9. ALL CONSTRUCTION SHALL BE IN FULL CONFORMANCE WITH ODEQ AND LOCAL REQUIREMENTS AND APPLICABLE ELECTRICAL AND PLUMBING CODES.
10. ALL WORK NOT CLASSIFIED AS A "CONTRACT ITEM" SHALL BE CONSIDERED INCIDENTAL AND THE COST THEREOF INCLUDED IN ITEMS CLASSIFIED FOR PAYMENT.
11. UPON COMPLETION OF SECTIONS OF WORK, AND PRIOR TO RECEIVING PAYMENT THEREFORE, THE CONTRACTOR SHALL REMOVE ALL MACHINERY, EQUIPMENT, TEMPORARY STRUCTURES, SURPLUS AND DISCHARGED MATERIALS, RUBBISH, STUMPS OR PORTIONS OF TREES RESULTING FROM HIS OPERATION. MATERIAL CLEANED FROM THE SITE AND DEPOSITED ON ADJACENT PROPERTY WILL NOT BE CONSIDERED AS HAVING BEEN DISPOSED OF SATISFACTORILY. CONTRACTOR MAY STACK AND BURN ON SITE ALL RUBBISH, STUMPS OR PORTIONS OF TREE AFTER ACQUIRING A BURN PERMIT FROM THE LOCAL MUNICIPALITY IF APPLICABLE AND ENGINEER'S APPROVAL. DISPOSAL SHALL BE IN LOCATIONS APPROVED BY THE ENGINEER BEFORE THE WORK BEGINS.
12. THE CONTRACTOR SHALL USE A REGISTERED LAND SURVEYOR AND PROVIDE ALL CONSTRUCTION STAKING FROM CONTROL SET BY THE ENGINEER.
13. THE LOCATION AND ELEVATION OF THE EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE APPROXIMATE BASED UPON AVAILABLE INFORMATION. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY THE ELEVATION OF ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCY.
14. THE CONTRACTOR SHALL MAINTAIN AND SUBMIT TO THE ENGINEER AT COMPLETION OF CONSTRUCTION A SET OF PLANS UPON WHICH ARE NOTED WITH ALL CHANGES.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC FLOW AROUND CONSTRUCTION SITE AT ALL TIMES.
16. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE FINISHED TO A SMOOTH UNIFORM SURFACE PERMITTING DRAINAGE AND SLOPED IN SUCH CONDITION THAT ALL AREAS MAY BE MOWED WITH ROTARY TYPE MOWING EQUIPMENT.
17. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS TO PROVIDE A COMPLETE FUNCTIONING SYSTEM. ANY ITEM NEEDED TO COMPLETE AN OPERATING SYSTEM SHALL BE FURNISHED BY THE CONTRACTOR WHETHER SPECIFICALLY CALLED FOR OR NOT. THE COST OF THE SAME WILL BE INCLUDED IN THE VARIOUS BID ITEMS.
18. EXTERIOR SLABS SHALL SLOPE AWAY FROM BUILDINGS OR OTHER STRUCTURES AT A MINIMUM OF ½" PER FOOT UNLESS OTHERWISE SPECIFIED AND ALL EXPOSED EDGES SHALL BE CHAMFERED ¾".
19. ALL CONCRETE SLABS, SIDEWALKS, ETC. SHALL HAVE AT MINIMUM #4 BARS @ 12" C.C., E.W. FOR THICKNESS BETWEEN 4" & 7" AND #4 BARS @ 12" C.C., E.W., E.F. FOR THICKNESS BETWEEN 7" & 12" UNLESS OTHERWISE NOTED.
20. IF THE GRADES SUBSIDE AND/OR ERODE WITHIN 12 MONTHS OF COMPLETION, THE CONTRACTOR SHALL REWORK GRADES TO SPECIFIED TOLERANCES AS SOON AS WEATHER PERMITS.
21. ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,500 PSI. ALL REINFORCING STEEL SHALL HAVE A YIELD STRENGTH OF 60,000 PSI, AND BE EPOXY COATED.
22. ALL METAL PIPING, VALVES, FITTINGS, AND SUPPORTS SHALL BE CLEANED, PRIMED AND PAINTED. THE PAINTING SYSTEM SHALL BE A LUSTERLESS EPOXY PAINT. TNEMEC SERIES 69 OR APPROVED EQUAL. ALL SYSTEMS SHALL BE APPLIED PER THE MANUFACTURER'S GUIDELINES.
23. ALL REBAR SHALL HAVE 2" OF CLEARANCE FROM EACH FACE.
24. ALL COLD POURED JOINTS SHALL HAVE A 6" NEOPRENE BARBELL SHAPED WATERSTOP.
25. ALL HORIZONTAL AND VERTICAL REINFORCING STEEL SHALL WRAP AROUND CORNERS A MINIMUM OF 24" OR THE MINIMUM DEVELOPMENT LENGTH (48 X BAR Ø), WHICHEVER IS GREATER. (EXAMPLE: FOR #5 BAR = 48 X 0.625" = 30") BAR SIZE AND SPACING SHALL BE EQUAL TO THE LARGEST BAR AT THE CORNER TO BE WRAPPED.
26. COMPACTION REQUIREMENTS: A) PAVED AREAS: 95% STANDARD PROCTOR DENSITY B) NON PAVED AREAS: 90% STANDARD PROCTOR DENSITY IF COVER DEPTH < 10'; 95% STANDARD PROCTOR DENSITY IF COVER DEPTH > 10'.
27. ALL FITTINGS AND VALVES SHALL BE EPOXY COATED D.I.P. WITH T 316 STAINLESS STEEL BOLTS AND RESTRAINED JOINTS.
28. THE INTERIOR OF THE WET WELL AND ALL MANHOLES SHALL BE COATED WITH EPOXY PAINT. RUST-OLEUM C9578 SYSTEM, TNEMEC SERIES 69 OR EQUAL. ALL SYSTEMS SHALL BE APPLIED PER THE MANUFACTURER'S GUIDELINES.



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SHEET NAME: SHEET INDEX & GENERAL NOTES
PROJECT: MUSCOGEE (CREEK) NATION MEAT PROCESSING FACILITY
CLIENT: FSB/Muscogee (Creek) Nation
LOCATION: Okmulgee Co., Okla.

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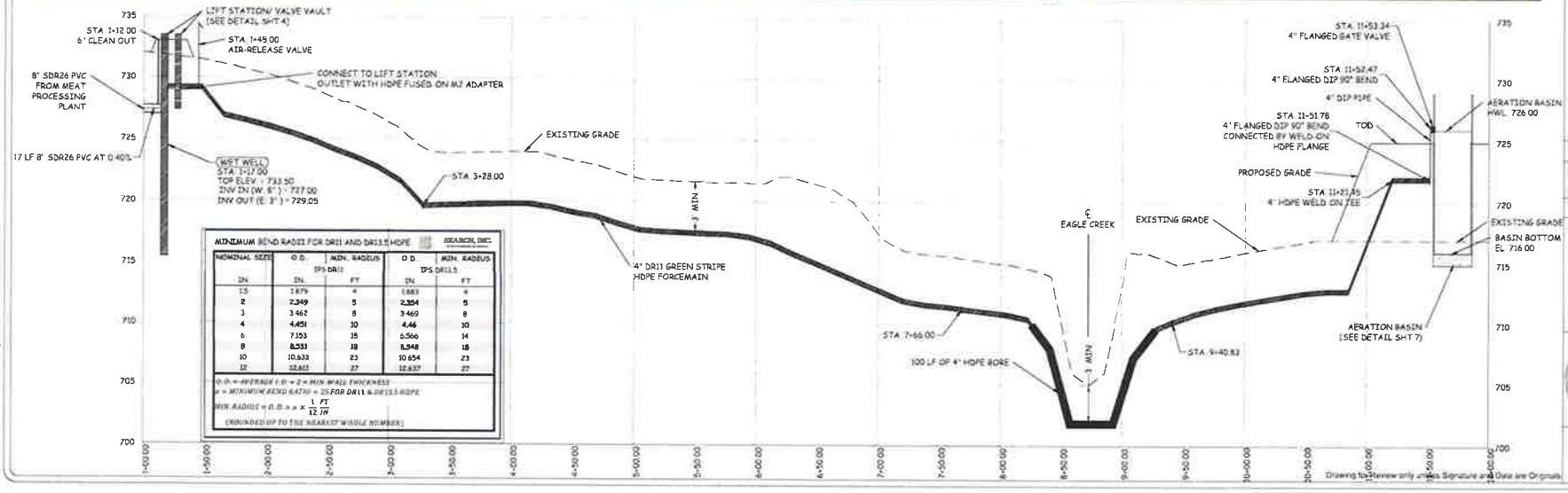
Oklahoma C.A. No. 195
Renewal 6-30-21

REV	DATE	NAME	DESCRIPTION

DESIGNED: P. Sprouse
DRAWN: L. Brewer
APPROVED: P. Sprouse
DATE: 10/16/2020

REGISTERED PROFESSIONAL ENGINEER
PERRY L. STRUDER
14423
OKLAHOMA

SHEET 2



MINIMUM BEND RADII FOR DR11 AND DR13.5 HDPE — SEARCH, INC.

NOMINAL SIZE	O.D.	MIN. RADIUS	O.D.	MIN. RADIUS
	IPS DR11		IPS DR13.5	
IN	IN	FT	IN	FT
1.5	1.879	4	1.883	4
2	2.349	5	2.354	5
3	3.462	8	3.469	8
4	4.451	10	4.46	10
6	7.153	15	6.566	14
8	8.531	18	8.548	18
10	10.633	23	10.654	23
12	12.611	27	12.637	27

O.D. = AVERAGE I.D. + 2 × MIN. WALL THICKNESS
a = MINIMUM BEND RATIO = 25 FOR DR11 & DR13.5 HDPE
MIN. RADIUS = O.D. × a × $\frac{1}{12}\frac{FT}{IN}$
(ROUNDED UP TO THE NEAREST WHOLE NUMBER)

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Renewal 6-30-21

SHEET NAME: FORCEMAIN P&P
PROJECT: MUSCOGEE (CREEK) NATION MEAT PROCESSING FACILITY
CLIENT: FSB/Muscogee (Creek) Nation
LOCATION: Okmulgee Co., Oklahoma

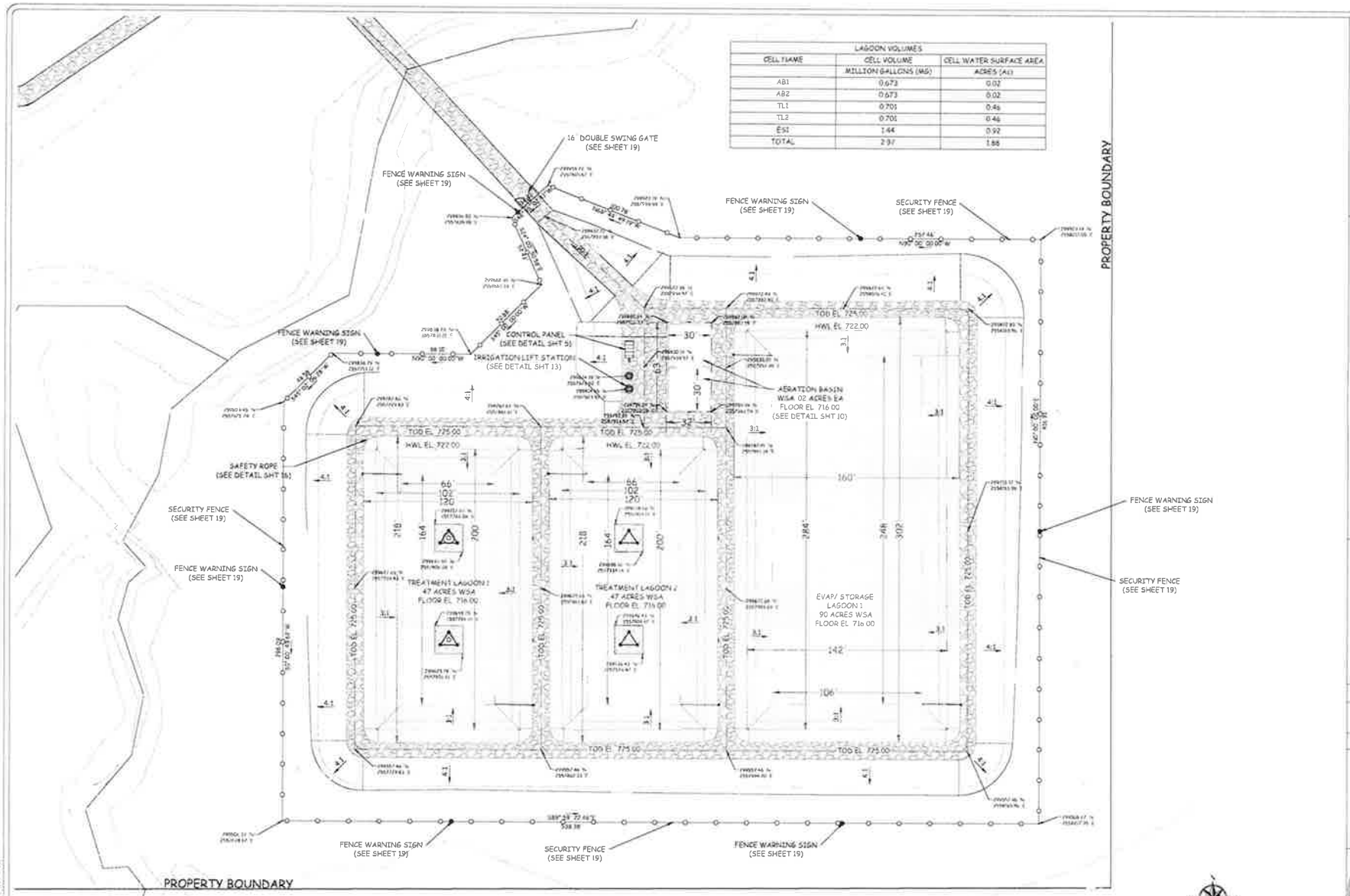
DESIGNED: P. Streeter
DRAWN: J. Brewer
APPROVED: P. Streeter
DATE: 10/15/2020

PERRY L. STREETER 14625

SHEET 6

G:\Shared drives\Directory\2020\16 - Creek Nation Meat Processing\dwg Basemap Sheets\2016 Basemap 10 06 20.dwg Forcemain P&P, 10/16/2020 10:44:52 AM
ARCH full sheet 0 (36.00 x 24.00 inches)

LAGOON VOLUMES		
CELL NAME	CELL VOLUME	CELL WATER SURFACE AREA
	MILLION GALLONS (MG)	ACRES (AC)
AB1	0.673	0.02
AB2	0.673	0.02
TL1	0.701	0.46
TL2	0.701	0.46
EST	1.44	0.92
TOTAL	2.97	1.88



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LAGOON GRADING
MUSCOGEE (CREEK) NATION
MEAT PROCESSING FACILITY
PROJECT
CLIENT FSB/Muscogee (Creek) Nation
LOCATION Okmulgee Co., Oklahoma

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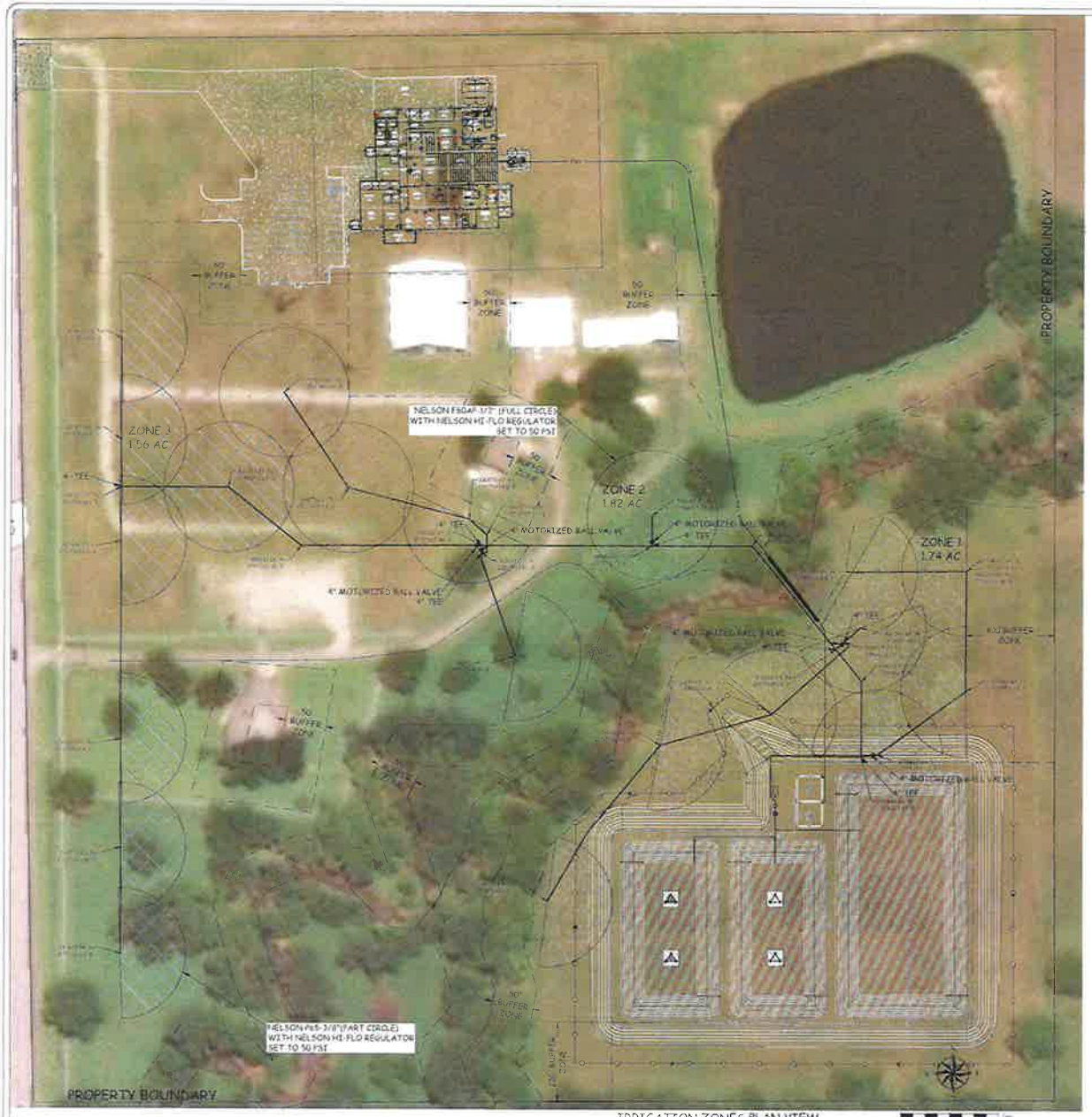
Oklahoma C.A. No. 106
Renewal 6-30-21

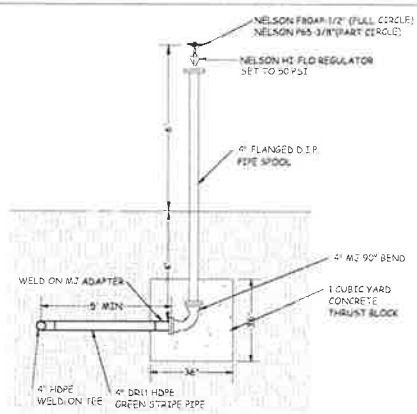
REGISTERED PROFESSIONAL ENGINEER
PERRY L. STAEBIN
14623
OKLAHOMA

DESIGNED ___ P. STAEBIN
DRAWN ___ L. BIANCO
APPROVED ___ P. STAEBIN
DATE ___ 8.03.2020

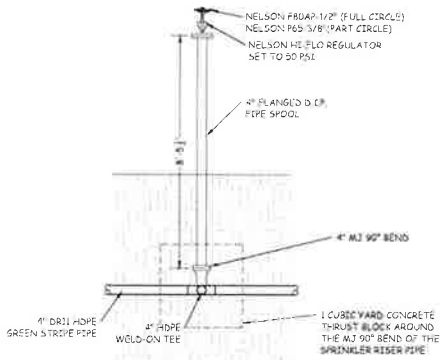
SHEET
8



IRRIGATION ZONES PLAN VIEW



SPRINKLER HEAD SIDE VIEW
SCALE 3" = 1'



SPRINKLER HEAD FRONT VIEW
SCALE 3" = 1'

Irrigation System Notes:

1. During the first phase of the project, the irrigation system will not be required. Only after the production exceeds 5 head per day will the irrigation system be required. However, the irrigation wet well and 6" gravity pipe running to the irrigation wet well will need to be installed during the construction of the lagoons. These items cannot be installed at a later time without taking the treatment system out of service.

2. Operational Times: There are three zones each containing approximately 1.85 acres. The daily limit for each zone will be 0.5 inches per day. The zone should be rotated daily. At a maximum, each field should be irrigated once every three days. 0.5 inches of irrigation on a zone equals 50,131 gallons. At an irrigation rate of 200 gpm, it will take 250 minutes (4 hours and 10 minutes) to put 0.5 inches of water on the zone.

3. During inclement weather, the irrigation system shall not be used. The irrigation water will accumulate in the Treatment Lagoon (TL2) and the Evap/Storage Lagoon (ES1). These lagoons have volumes of 0.70 and 1.43 million gallons, respectively. This is a total volume of 2.13 million gallons or approximately 170 days of storage without evaporation considered. Considering evaporation, the storage volume will hold approximately 213 days of wastewater.

The irrigation pump will:

1. Alternate after each use.
2. Be controlled by a 7 day, 24 hr. timer, fixed programmable by the operator.
3. Be operated on days where the low temperature is above 38 degrees F. There shall be a thermometer installed on the control panel under the control panel owning to allow the irrigation pump to run if the temperature is warm enough.
4. Be operated on days where the rainfall is below 0.25". There shall be a rain gauge installed above the control panel cover to prevent the irrigation pump from running if there has been over 0.25 inches of rain in the last 24 hrs.
5. Be controlled by two floats in the irrigation wet well. The lower float will turn the pump off if the level in the irrigation wet well reaches a preset level. The higher float will allow the irrigation pump to run if the level in the irrigation wet well is above a preset level. Both floats will be field adjustable by the operator.

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Renewal 6-30-21

SHEET 14

DESIGNED ___ P. Street
DRAWN ___ J. Street
APPROVED ___ P. Street
DATE ___ 10/12/2020

REGISTERED PROFESSIONAL ENGINEER
PERRY L. STREET
14822
OKLAHOMA
10/12/2020

SHEET NAME: IRRIGATION PLAN & DETAILS
PROJECT: Duck Creek Meat Products Facility Wastewater
CLIENT: Creek Nation
LOCATION: Okmulgee, Oklahoma

REV	DATE	BY	CHK

NOTES:

1. BOTTOM EDGES TO BE TWISTED AND BARBED

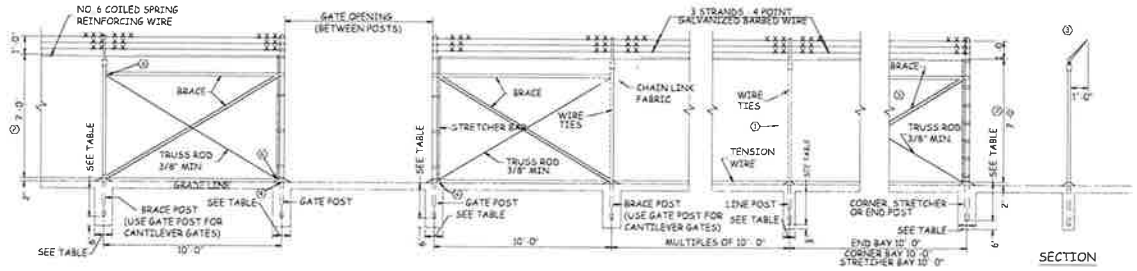
2. HEIGHT (H) OF SECURITY FENCE TO BE 7' 0" WITH 3 STRANDS OF 4 POINT BARBED WIRE SECURELY ATTACHED TO SINGLE EXTENSION ARMS ALONG TOP OF FENCE. TOP STRAND TO BE 1' 0" ABOVE CHAIN LINK FABRIC

3. SINGLE EXTENSION ARMS SHALL POINT OUTWARD AT A 45 ANGLE

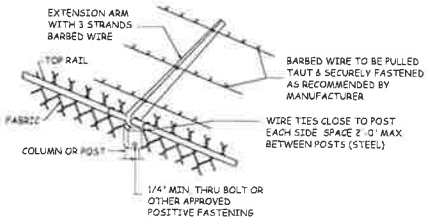
4. PROVIDE SLOPED CONCRETE BASE

5. DETAIL TYPICAL AT BOTH SIDES OF CORNER AND STRETCHER POST.

6. TRUSS ROD SHALL BE ATTACHED TO BRACE CLAMP AT UPPER CORNER. AT LOWER CORNER, A SHORT LENGTH OF TRUSS ROD WITH THREADED END SHALL BE CLAMPED TO POST. LOWER END OF TRUSS ROD SHALL BE ATTACHED TO THIS SHORT LENGTH WITH A SWIVEL ADAPTOR AND NUT

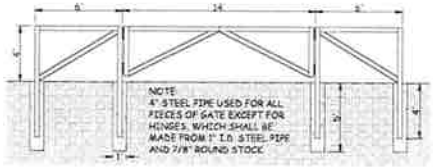


CHAIN LINK FABRIC FENCE
NO SCALE

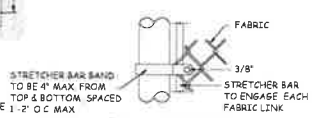


(SHOWN WITH RAIL. SIMILAR WITH TOP TENSION WIRE)

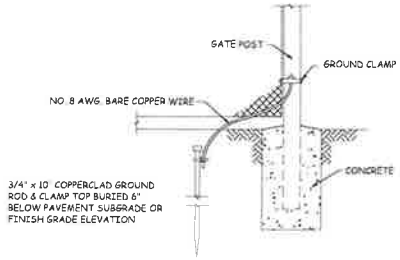
EXTENSION ARM FOR BARBED WIRE
NO SCALE



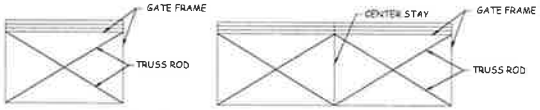
ACCESS ROAD GATE DETAIL
SCALE 1"=4'



END OR GATE POST



FENCE GROUNDING
NO SCALE



GATE LEAVES THRU 10'-0" WIDE

GATE LEAVES OVER 10' TO 18' WIDE

GATE FRAME CONSTRUCTION DETAILS
NO SCALE

WIRE TIES FOR TOP OR BRACE RAIL

CONTACT NAME AND PHONE NUMBER TO BE DETERMINED

NOTES
FENCE WARNING SIGNS SHALL BE
1 MINIMUM OF 130 IN²
2 SHEET ALUMINUM W/ MINIMUM THICKNESS OF 60 MILS
3 SILK SCREEN PRINTED

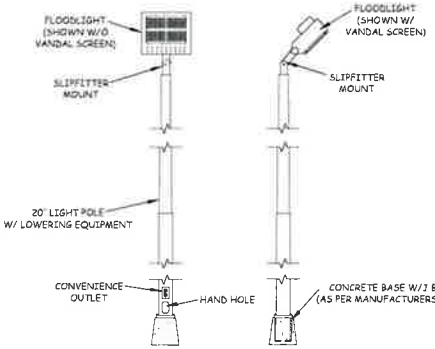
FENCE WARNING SIGN
NO SCALE

GATE LEGEND

GATE WIDTH	# OF GATES	TOTAL WIDTH	GATE TYPE	GATE LOCATION
FT	EA	FT		
8	2	16	CHAIN LINK	LIFT STATION
8	2	16	CHAIN LINK	WATER STORAGE TANK AREA
6	2	12	CHAIN LINK	MAIN LAGOON ENTRANCE
6	2	12	CHAIN LINK	SE LAGOON GATE
7	2	14	WELDED STEEL PIPE	LAGOON ACCESS ROAD

WIRE TIES FOR POST

PLAN AT BANDS



SEE NOTE 1
FOR SPECIFICATIONS

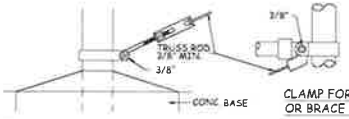
NOTES:

1. ALL LIGHTS ARE TO BE AS FOLLOWS
20' ELECTRICAL POLE - COOPER LIGHTING - #HTS6A20SYTXXC, LOWERING EQUIPMENT - COOPER LIGHTING - #HSSLDW
FLOODLIGHT - MCGRAW EDISON - #GLEON-AF-04-LED-E1-RW-BK-ADJS

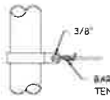
FLOOD LIGHT DETAILS
SCALE 1/2" = 1'

POST & FRAMEWORK SCHEDULE

	LINE POST	END COR. OR STRETCHER POST	GATE POST (FOR INDICATED LEAF WIDTH)			TOP RAIL OR POST BRACE RAIL	GATE FRAMES		
			6' & LESS	OVER 6' - 12'	OVER 12'		6' & LESS	OVER 6' - 10'	OVER 10' - 18'
SHAPE	○	○	○	○	○	○	○	○	○
NOMENCLATURE	2" PIPE	2 1/2" PIPE	2 1/2" PIPE	3 1/2" PIPE	6" PIPE	1 1/4" PIPE	1 1/4" PIPE	1 1/2" PIPE	1 1/2" PIPE
DIMENSIONS	2.38" OD 2.07" ID 0.154" THK	2.88" OD 2.47" ID 0.203" THK	2.88" OD 2.47" ID 0.203" THK	4.00" OD 3.55" ID 0.226" THK	6.63" OD 6.07" ID 0.280" THK	1.66" OD 1.38" ID 0.140" THK	1.66" OD 1.38" ID 0.140" THK	1.90" OD 1.61" ID 0.145" THK	1.90" OD 1.61" ID 0.145" THK
CRITICAL AXIS SEC. MODULUS	0.561 IN³	1.06 IN³	1.06 IN³	2.39 IN³	8.50 IN³	0.235 IN³	0.235 IN³	0.326 IN³	0.326 IN³
WEIGHT	3.65 LBS/LIN.FT.	5.79 LBS/LIN.FT.	5.79 LBS/LIN.FT.	9.11 LBS/LIN.FT.	18.97 LBS/LIN.FT.	2.27 LBS/LIN.FT.	2.27 LBS/LIN.FT.	2.72 LBS/LIN.FT.	2.72 LBS/LIN.FT.
LENGTH FOR GIVEN FENCE FABRIC HEIGHT	4' 5' 6' 8' 9' 11' 0"		6'-9" 7'-10" 9'-3" 11'-6"			6'-9" 7'-10" 9'-3" 11'-6"			
EMBEDMENT FOR GIVEN FENCE FABRIC HEIGHT	24" 27" 30" 33"		30" 33" 36" 39"			30" 33" 36" 39"			
FOOTING DIM. IN EARTH	10" DIA	16" DIA	16" DIA	16" DIA	24" DIA				
FOOTING DIM. IN ROCK	5" DIA 9" DEEP	5" DIA 9" DEEP	5" DIA 12" DEEP	6" DIA 16" DEEP	9" DIA 24" DEEP				



CLAMP FOR TOP OR BRACE RAIL



BAND FOR WIRE STRETCHING

⑥ TRUSS ROD AND BAND

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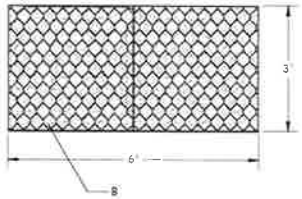
Oklahoma C.A. No. 196
Renewal 6/30/21

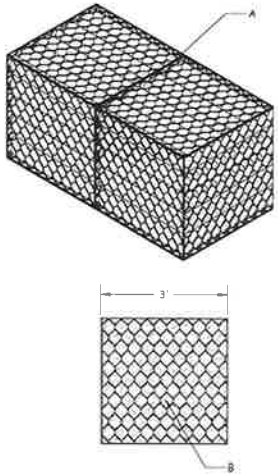
SHEET NAME: FENCE AND LIGHTING DETAILS
PROJECT: MUSCOGEE (CREEK) NATION BEAT INDUSTRIAL FACILITY
CLIENT: FSB/Muscogee (Creek) Nation
LOCATION: Okmulgee Co., Okahoma

SHEET 19

Drawing for Review only unless Signature and Date are Originals

C:\Shared s\HD Directing\DOCS_C Cees Not on Mass Pecers\plang\DETAILS REVICE DETAILS.dwg Layout1 10/15/2020 3:15:10 PM
AS-BUILT Revised D (ANSI) (24.00 x 36.00 in)





NOTES

A. A 3' X 3' PIECE OF GABION WIRE CREATES THE CENTRAL DIVIDER OF THE TWO CHAMBERS.

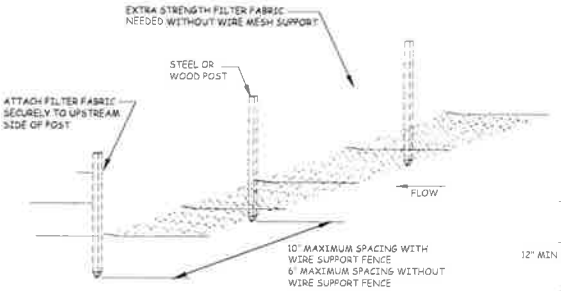
B. THE GABION CAGE WILL BE FILLED WITH #3 SURGE, 2-4" RIP RAP, OR APPROVED EQUAL.

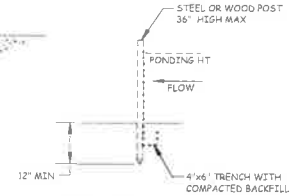
GABION SEDIMENT BARRIER

NTS

NOTES:

1. THE GABIONS SHALL BE PLACED ON SLOPE CONTOUR
2. GABIONS TO BE PLACED IN A ROW WITH THE ENDS TIGHTLY ABUTTING.
3. KEY IN GABIONS TO PREVENT EROSION OR FLOW UNDER GABIONS.

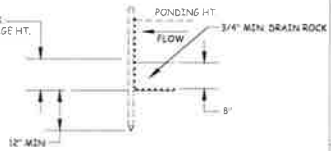




TRENCH DETAIL

NOTES

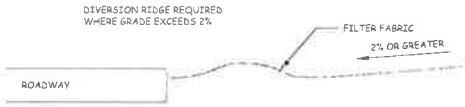
1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" (225mm) MAXIMUM RECOMMENDED STORAGE HEIGHT



INSTALLATION WITHOUT TRENCHING

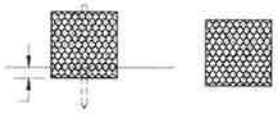
SILT FENCE

NO SCALE

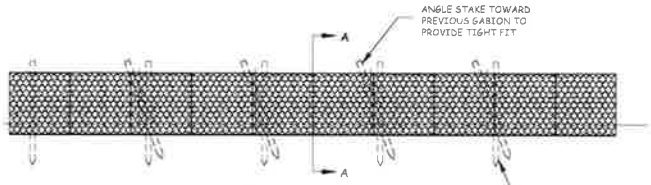


SECTION A-A

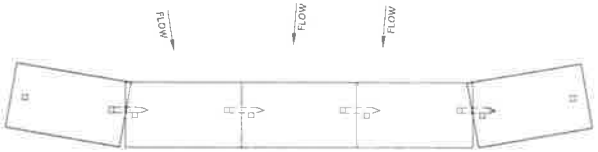
SECTION A-A



EMBED GABION 4" MINIMUM INTO SOIL



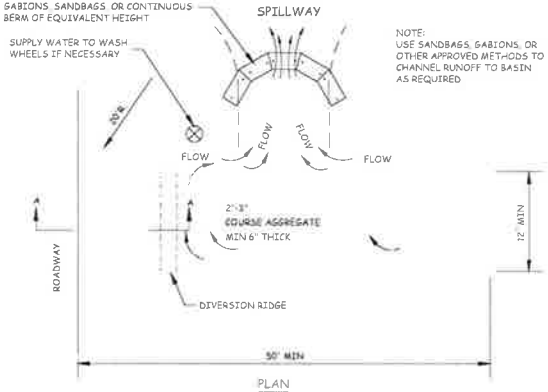
SECTION B-B



PLAN

GABION DIKE

NO SCALE



NOTE:
USE SANDBAGS, GABIONS, OR OTHER APPROVED METHODS TO CHANNEL RUNOFF TO BASIN AS REQUIRED.

PLAN

TEMP. GRAVEL CONST. ENTRANCE

NO SCALE

NOTES

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

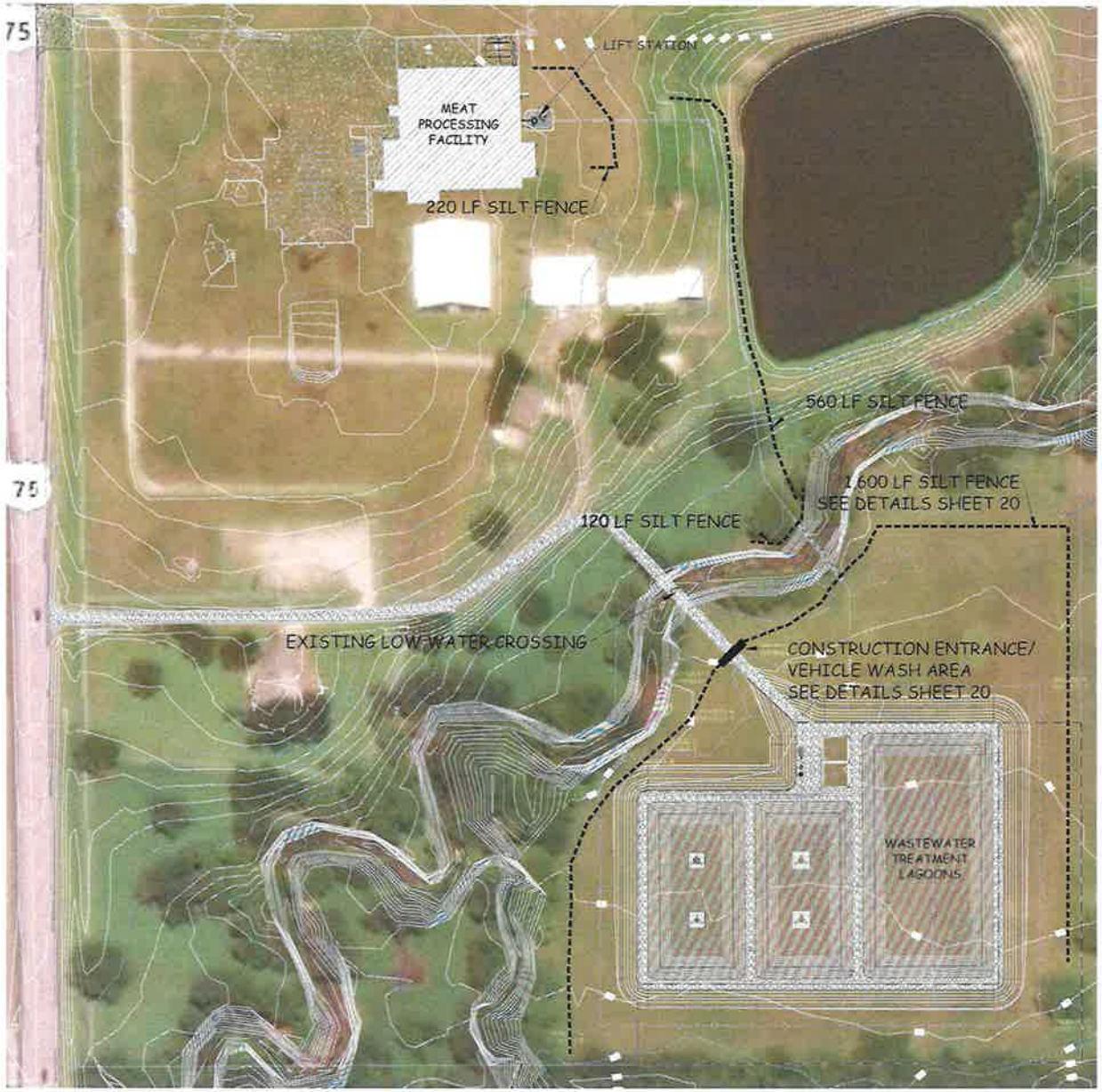
Drawing for Review only unless Signature and Date are Originals.

SHEET NAME: EROSION CONTROL DETAILS
PROJECT: MUSCOGEE (CREEK) NATION MCAT TRACK SEWAGE FACILITY
CLIENT: FSB/Muscogee (Creek) Nation
LOCATION: Okmulgee Co., Oklahoma

SEARCH, LLC
SYSTEMS ENGINEERING & RESEARCH
ENGINEERING EXCELLENCE SINCE 1970
ENVIRONMENTAL • CIVIL • MUNICIPAL • INDUSTRIAL
P.O. Box 722516
Norman, OK 73070
TEL (405)364-0900
Oklahoma C.A. No. 706
Renewal 6-30-21

DESIGNED: P. Steele
DRAWN: L. Breaux
APPROVED: P. Steele
DATE: 10/16/2020

SHEET 20



Drawing for Review only unless Signature and Date are Originals

SHEET NAME: EROSION CONTROL PLAN
PROJECT: MUSCOGEE (CREEK) NATION MEAT PROCESSING FACILITY
CLIENT: FSB/Muscogee (Creek) Nation
LOCATION: Okmulgee Co., Oklahoma

SEARCH, LLC
SYSTEMS ENGINEERING & RESEARCH
ENGINEERING EXCELLENCE SINCE 1970
ENVIRONMENTAL • CIVIL • MUNICIPAL • INDUSTRIAL
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Norman, OK 73070
TEL. (405)364-0900
Oklahoma C.A. No. 106
Renewal 6-30-21

REV	DATE	APPR	DESCRIPTION

DESIGNED P. Stirebin
DRAWN L. Bignet
APPROVED P. Stirebin
DATE 10/14/2020

SHEET 21

STRUCTURAL – GENERAL NOTES

GENERAL REQUIREMENTS

DESIGN AND SPECIFICATIONS: Bridge design and construction to conform with AASHTO LRFD Bridge Design Specification, 8th Edition and approved state amendments

MEANS, METHODS and SAFETY REQUIREMENTS: The contractor is responsible for the means and methods of construction and all job related safety standards such as OSHA and DOSH (Department of Occupational Safety and Health). The contractor is responsible for means and methods of construction related to the intermediate structural conditions (i.e. movement of the structure due to moisture and thermal effects, construction sequence, temporary bracing, etc)

TEMPORARY SHORING, BRACING: The contractor is responsible for the strength and stability of the structure during construction and shall provide temporary shoring, bracing and other elements required to maintain stability until the structure is complete. It is the contractor's responsibility to be familiar with the work required in the construction documents and the requirements for executing it properly.

DESCREPANCIES: In case of discrepancies between the General Notes, Specifications, Plans/Details or Reference Standards, the Engineer shall determine which shall govern. Discrepancies shall be brought to the attention of the Engineer before proceeding with the work

SITE VERIFICATION: The contractor shall verify all dimensions and conditions at the site. Conflicts between the drawings and actual site conditions shall be brought to the attention of the Engineer before proceeding with the work

ADJACENT UTILITIES: The contractor shall determine the location of all adjacent underground utilities prior to earthwork, foundations, shoring, and excavation. Any utility information shown on the drawings and details is approximate and not necessarily complete

GUARDRAILS: Design of any guardrails, crash barriers and pedestrian railings is by others. Owner/contractor is responsible to retain Civil Engineer to coordinate the design and layout of any guardrail and pedestrian railing systems. All connections to the structure to be reviewed and approved by Premier Steel Services

SOILS AND FOUNDATIONS

FOUNDATIONS: Foundations shall bear either on competent native soil or compacted structural fill. Tops of footings shall be as shown on plans with vertical changes as indicated with steps in footings; locations of steps shown as approximate and shall be coordinated with the civil grading plans

CONTRACTOR'S RESPONSIBILITIES: Contractor shall be responsible for all subgrade preparation, temporary excavation, retention, groundwater management and all other aspects associated to the geotechnical preparation

GEOTECHNICAL SUBGRADE INSPECTION: Design of the foundations have been based upon assumed conditions without use of a site-specific Geotechnical Report. DCI recommends the Owner/Contractor retain a Geotechnical Consultant to inspect all sub-grades and prepared soil bearing surfaces, prior to placement of foundation reinforcing steel and concrete. Owner/Contractor Geotechnical Consultant shall provide a letter to the owner stating that soils are adequate to support the "Allowable Foundation Bearing Pressure(s)" shown below. Assumed values shall be field verified by the Authority Having Jurisdiction or the Geotechnical Engineer prior to placing concrete.

ASSUMED DESIGN SOIL VALUES

Allowable Foundation Bearing Pressure	3000 PSF – Native or Structural Fill
Active Lateral Pressure (unrestrained)	45 PSF/FT
At-Rest Lateral Pressure (restrained)	65 PSF/FT
Surcharge Lateral Pressure	8H PSF
Coefficient of Sliding Friction	0.35
Modulus of Subgrade	150 PCI

SLABS-ON-GRADE: All slabs-on-grade shall bear on compacted structural fill or competent native soil.

CAST-IN-PLACE CONCRETE

REFERENCE STANDARDS: Conform to:
(1) AASHTO LRFD Bridge Specification, Section 6 – "Concrete Structures"
(2) AASHTO Standard Specification for Materials and Methods of Sampling and Testing
(3) ACI 301 – "Specifications for Structural Concrete"
(4) ACI 117 – "Specifications for Tolerances for Concrete Construction and Materials"

MATERIALS: Conform to AASHTO Standard Specification M43, M157 & M194 or ACI 301 for requirements for cementitious materials, aggregates, mixing water and admixtures

Concrete Bridge Deck & Beams	fc = 4000 psi at 28 days, Class B
Retaining Walls and Footings	fc = 4000 psi at 28 days, Class B
Miscellaneous Concrete	fc = 3000 psi at 28 days, Class B

MEASURING, MIXING, AND DELIVERY: Conform to ACI 301

HANDLING, PLACING, CONSTRUCTING AND CURING: Conform to ACI 301 Section 5. In addition, hot weather concreting shall conform to ACI 305R-10 and cold weather concreting shall conform to ACI 206R-10

STRENGTH TESTING AND ACCEPTANCE: Obtain samples and conduct tests in accordance with AASHTO T-23 or ACI 301 Section 1.6.3.2. Additional samples may be required to obtain concrete strengths at alternate intervals than shown below

- Cure 4 cylinders for 28-day test age (test 1 cylinder at 7 days, test 2 cylinders at 28 days, and hold 1 cylinder in reserve for use as the Engineer directs. After 56 days, unless notified by the Engineer to the contrary, the reserve cylinder may be discarded without being tested for specimens meeting 28-day strength requirements.
- The number of cylinders indicated above reference 6 by 12 in. cylinders. If 4 by 8 in. cylinders are to be used, additional cylinders must be cured for testing of 3 cylinders at test age per the table of mix design requirements

Acceptance: Strength is satisfactory when
(1) The averages of all sets of 3 consecutive tests equal or exceed the specified strength
(2) No individual test falls below the specified strength by more than 500 psi.

A "test" for acceptance is the average strength of two 6 by 12 in. cylinders or three 4 by 8 in. cylinders tested at the specified test age

SURFACE FINISH: Unless otherwise specified, provide ordinary surface finish on formed surfaces

CONCRETE PLACEMENT TOLERANCE: Conform to ACI 117-10 for concrete placement tolerance

EMBEDDED ITEMS: Position and secure in place expansion joint material, anchors and other structural and non-structural embedded items before placing concrete. Contractor shall refer to mechanical, electrical, plumbing and architectural drawings and coordinate other embedded items

CONCRETE REINFORCEMENT

REFERENCE STANDARDS: Conform to

(1) ACI 301-16 "Standard Specifications for Structural Concrete", Section 3 "Reinforcement and Reinforcement Supports"
(2) CRSI MSP-09, 28th Edition "Manual of Standard Practice"
(3) ANSI/AWS D1.4:2005 "Structural Welding Code – Reinforcing Steel"
(4) AASHTO LRFD Bridge Specification, Section 5 – "Concrete Structures"
(5) ACI 117-10 "Specifications for Tolerances for Concrete Construction and Materials"

MATERIALS:

Reinforcing Bars	ASTM A615, Grade 60, deformed bars ASTM A615, Grade 75, deformed bars for #11 ASTM A706, Grade 60, deformed bars
Epoxy Coated Reinforcing Bars	ASTM A775 or A934
Smooth Welded Wire Fabric	ASTM A1064
Deformed Welded Wire Fabric	ASTM A1064
Bar Supports	CRSI MSP-09, Chapter 3 "Bar Supports"
Tie Wire	16 gage or heavier, black annealed
Headed Deformed Bars	ASTM A970

FABRICATION: Conform to ACI 301, Section 3.2.2 "Fabrication" and ACI SP-66 "ACI Detailing Manual"

WELDING: Bars shall not be welded unless authorized. When authorized, conform to ACI 301, Section 3.2.2.2 "Welding", AWS D1.4, and provide ASTM A706, grade 60 reinforcement

PLACING: Conform to ACI 301, Section 3.2.2 "Placing" Placing tolerances shall conform to ACI 117

CONCRETE COVER: Conform to AASHTO LRFD, Table 5.10.1-1 Cover for Unprotected Main Reinforcing Steel

SPLICES, LAPS, HOOKS AND DEVELOPMENT: Conform to AASHTO LRFD, Bridge Specification, Section 5.10.8

STRUCTURAL STEEL

REFERENCE STANDARDS: Conform to

(1) AASHTO LRFD Bridge Specification, Section 6 – "Steel Structures"
(2) ANSI/AISC 303-16 – "Code of Standard Practice for Steel Buildings & Bridges"
(3) AISC – "Manual of Steel Construction", Fifteenth Edition (2016)
(4) AWS D1.5 – 2015 – "Bridge Welding Code"
(5) 2014 RCSC – "Specification for Structural Joints using High-Strength Bolts"

MATERIALS:
Structural steel materials shall conform to AASHTO M12/0 Standard Specification for Structural Steel

Wide Flange (W), Tee (WT) Shapes	ASTM A992, Fy – 50 ksi
Channel (C), Angle (L) & Misc Shapes	ASTM A36, Fy – 36 ksi
Structural Plate (PL)	ASTM A36, Fy – 36 ksi
High Strength Plate (Gr 50 PL)	ASTM A572, Fy = 50 ksi
Hollow Structural Section – Square/Rect (HSS)	ASTM A500, Grade B = 46 ksi
Structural Pipe, (PIPE) 12" dia and less	ASTM A53, Grade B – 35 ksi
Heavy Strength, Heavy Hex Structural Bolts	ASTM A325/F1852, Type 1 or 3, Plain
Heavy Hex Nuts	ASTM A563, Grade and Finish per RCSC Table 2.1
Washers (Hardened Flat or Beveled)	ASTM F436, Grade and Finish per RCSC Table 2.1
Anchor Rods (High Strength)	ASTM F1554, Gr 55 (weldable) per Supplement S1
Mild Threaded Rods	ASTM A36, Fy = 36 ksi
High Strength Threaded Rods	ASTM A193, Grade B7, Fy = 100 ksi
Welded Headed (shear) Stud Anchors	ASTM A108 – Nelson/TRW S3L
Welded Headed Stud (WHS) Anchors	ASTM A108 – Nelson/TRW H4L
Dowel Bar Anchors (DBA)	ASTM A496 – Nelson/TRW D2L, Fy – 70 ksi

FABRICATION & QUALITY CONTROL
Fabrication shall conform to AISC 303 Section 6 and Quality Control shall conform to AISC 303 Section 8

WELDING
All welding shall conform to AWS D1.5 – Bridge Welding Code. Use 70 ksi strength, low-hydrogen type electrodes (E7001B) or E71T as appropriate for the welding process selected

PROTECTIVE COATING REQUIREMENTS

(1) SHOP PAINTING: Conform to AISC 303 Section 6.5 unless otherwise specified by the project specifications.
(2) EXPOSED STEEL: shall be protected by either multi-coat paint or galvanizing

APPROVAL/SIGNATURE OF THE OWNER CONSTITUTES ACCEPTANCE OF THE DIMENSIONAL SIZES SHOWN ON THE ATTACHED DRAWINGS. OWNER ACCEPTS THE FAST CAST™ BRIDGE IS DESIGNED STRUCTURALLY TO AASHTO HL93 LOADS FOR VEHICULAR TRAFFIC AND REDUCED LOADS FOR PEDESTRIAN BRIDGES: STAMPED/SEALED DRAWINGS AND CALCULATIONS WILL BE PROVIDED BY PREMIER STEEL SERVICES UPON RECEIPT OF FINAL PAYMENT. OWNER IS RESPONSIBLE TO EMPLOY IT'S OWN CIVIL ENGINEERING FOR DESIGN OF SITE AND SUITABILITY OF THE MODEL OF FAST CAST™ BRIDGE MODEL SELECTED AND SHOWN ON THIS DRAWING.

SIGNATURE OF APPROVER ____________________ DATE ____________

THESE DRAWINGS ARE THE INTELLECTUAL PROPERTY OF PREMIER STEEL SERVICES, LLC AND CONSIDERED PROPRIETARY AND CONFIDENTIAL INFORMATION AND SHALL NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION FROM PREMIER STEEL.

METAL DECK

MATERIAL: ASTM A653 – SS Designation, Grade 33. Minimum yield strength shall be 33 ksi. Steel deck and accessories shall be galvanized to G60 minimum in accordance with ASTM A653.

TYPE: Deck shall be as shown on the structural drawings.

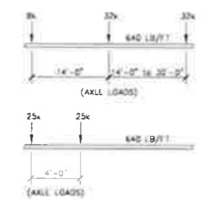
INSTALLATION: Install deck in accordance with supplier's instructions. Attachments shall resist the uplift forces and the diaphragm shear forces shown on the drawings. Welding shall conform to AWS D1.3. Welders shall have current Light Gage Certification. Minimum end lap shall be 2" centered over supports. Minimum bearing shall be 2".

ACCESSORIES: Deck manufacturer shall furnish shoring plans, closure plates, ridge and valley plates, cant strips, sump pans, flashing and all other light gage steel material required to complete the work.

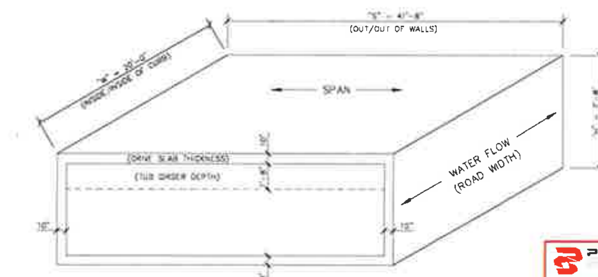
DECK FASTENING: Minimum deck fastening shall be as follows, unless noted otherwise on drawings:

- ⅝" diameter puddle welds at each rib at transverse and perimeter supports
- ⅝" diameter puddle welds at 12" OC at longitudinal supports
- Side lap connections necessary to develop the shear loading indicated on the diaphragm schedule, but not less than 300 PLF

DESIGN LOADING



1. DESIGN LIVE LOAD: HL93 (CVW 36 TONS)
2. SUPERIMPOSED DEAD LOAD: 75 PSF
3. DESIGN IS BASED ON AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 8TH EDITION AND ALL INTERIM REVISIONS
4. LIVE LOAD DEFLECTION AT MIDSPAN IS L/800



WALL HEIGHT "H" –3'-2" = BOTTOM OF TUB GIRDER TO FLOOR (4'-6)
SPAN "S" –1'-8" – INSIDE OF WALL TO WALL (40'-0)
WIDTH "W" +1'-4" – OUT TO OUT OF CURB (21'-4)

APPROXIMATE CONCRETE OF _97_ CUBIC YARDS REQUIRED, BY OTHERS. CONCRETE IS BASE ON THEORETICAL AMOUNTS MORE OR LESS MAY BE REQUIRED BASED ON SOIL PREPARATIONS

PREMIER For Approval 02/04/2021

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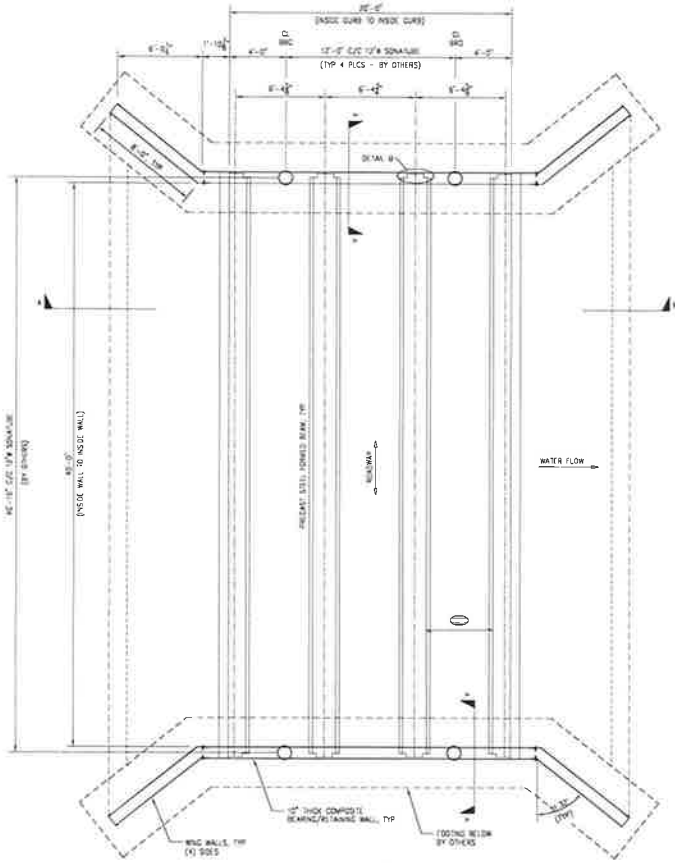
ENGINEER'S STAMP

APPROVAL BY THE OWNER OF SHOP DRAWINGS PREPARED BY THE FABRICATOR INDICATES THAT THE FABRICATOR HAS CORRECTLY INTERPRETED THE CONTRACT DRAWINGS. APPROVAL DOES NOT RELIEVE THE FABRICATOR OF THE RESPONSIBILITY FOR ACCURACY OF DETAIL DIMENSIONS, NOR THE GENERAL FIT-UP OF PARTS TO BE ASSEMBLED IN THE FIELD, UNLESS SPECIFICALLY STATED TO THE CONTRARY. ANY ADDITIONS, DELETIONS OR CHANGES INDICATED ON THE APPROVAL OF THE SHOP AND ERECTION DRAWINGS ARE AUTHORIZATIONS BY THE OWNER TO RELEASE THE ADDITIONS, DELETIONS OR CHANGES FOR CONSTRUCTION.

No.	DATE	DESCRIPTION	DATE	No.	TYPE	FOR
REVISIONS			PRINT RECORD			

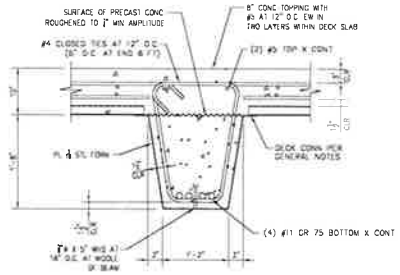
PREMIER Steel

CUSTOMER:	THOMPSON CONSTRUCTION
PROJECT:	~~MCN MEATPACKING PLANT~~
LOCATION:	~~GLENPOOL, OKLAHOMA~~
DESCRIPTION:	BH-20W-40L FAST CAST BRIDGE
JOB NO.	0538
SHEET NO.	CS-1



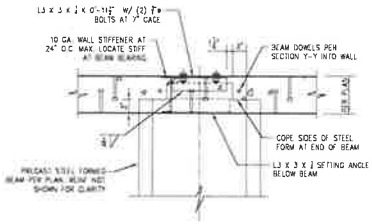
PLAN

SCALE: 1" = 1'-0"



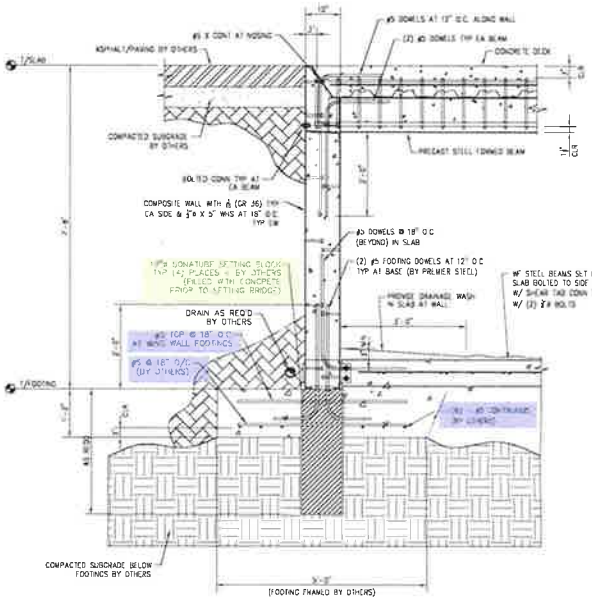
DETAIL A

SCALE: 1" = 1'-0"



DETAIL B

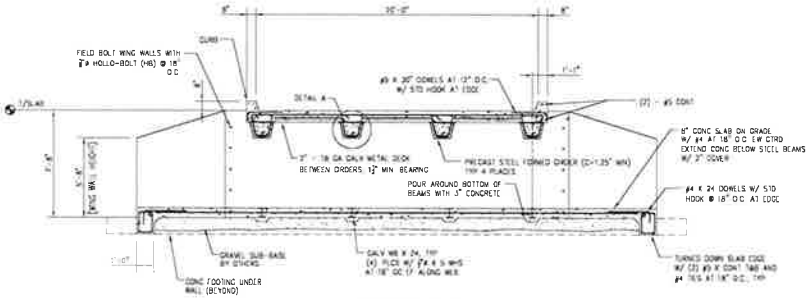
SCALE: 1" = 1'-0"



SECTION Y-Y

SCALE: 3/4" = 1'-0"

Reinforcing to be supplied by Concrete Subcontractor. The balance of the reinforcing will be supplied by Premier Steel.



SECTION X-X

SCALE: 3/4" = 1'-0"

NOTES:

1. GENERAL NOTES AND SPECIFICATIONS PER CS-1
2. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL DIMENSIONS, SITE ELEVATIONS AND EXISTING CONDITIONS ARE IN COMPLIANCE WITH DESIGN SPECIFICATIONS
3. EXCAVATION AND SUBGRADE PREPARATION IS BY OTHERS
4. FOOTINGS SHALL BEAR ON COMPETENT NATIVE SOIL AND/OR STRUCTURAL FILL PROVIDING A MINIMUM ALLOWABLE BEARING PRESSURE AND SUBGRADE MODULUS AS SPECIFIED IN GENERAL NOTES
5. BRIDGE SLABS, WALL AND FOUNDATIONS TO BE A MONOLITHIC POUR

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PREMIER STEEL

For Approval
02/04/2021

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APPROVAL/SIGNATURE OF THE OWNER CONSTITUTES ACCEPTANCE OF THE DIMENSIONAL SIZES SHOWN ON THE ATTACHED DRAWINGS. OWNER ACCEPTS THE FAST CAST™ BRIDGE IS DESIGNED STRUCTURALLY TO AASHTO HL93 LOADS FOR VEHICULAR TRAFFIC AND REDUCED LOADS FOR PEDESTRIAN BRIDGES. STAMPED/SEALED DRAWINGS AND CALCULATIONS WILL BE PROVIDED BY PREMIER STEEL SERVICES UPON RECEIPT OF FINAL PAYMENT. OWNER IS RESPONSIBLE TO EMPLOY ITS OWN CIVIL ENGINEERING FOR DESIGN OF SITE AND SUITABILITY OF THE MODEL OF FAST CAST™ BRIDGE MODEL SELECTED AND SHOWN ON THIS DRAWING.

SIGNATURE OF APPROVER _____ DATE _____

MGN Meat Processing Facility

Bridge, Continuing

APPROVAL BY THE OWNER OF SHOP DRAWINGS PREPARED BY THE FABRICATOR INDICATES THAT THE FABRICATOR HAS CORRECTLY INTERPRETED THE CONTRACT DRAWINGS. APPROVAL DOES NOT RELIEVE THE FABRICATOR OF THE RESPONSIBILITY FOR ACCURACY OF DETAIL DIMENSIONS, NOR THE GENERAL FIT-UP OF PARTS TO BE ASSEMBLED IN THE FIELD. UNLESS SPECIFICALLY STATED TO THE CONTRARY, ANY ADDITIONS, DELETIONS OR CHANGES INDICATED ON THE APPROVAL OF THE SHOP AND ERECTION DRAWINGS ARE AUTHORIZATIONS BY THE OWNER TO RELEASE THE ADDITIONS, DELETIONS OR CHANGES FOR CONSTRUCTION.

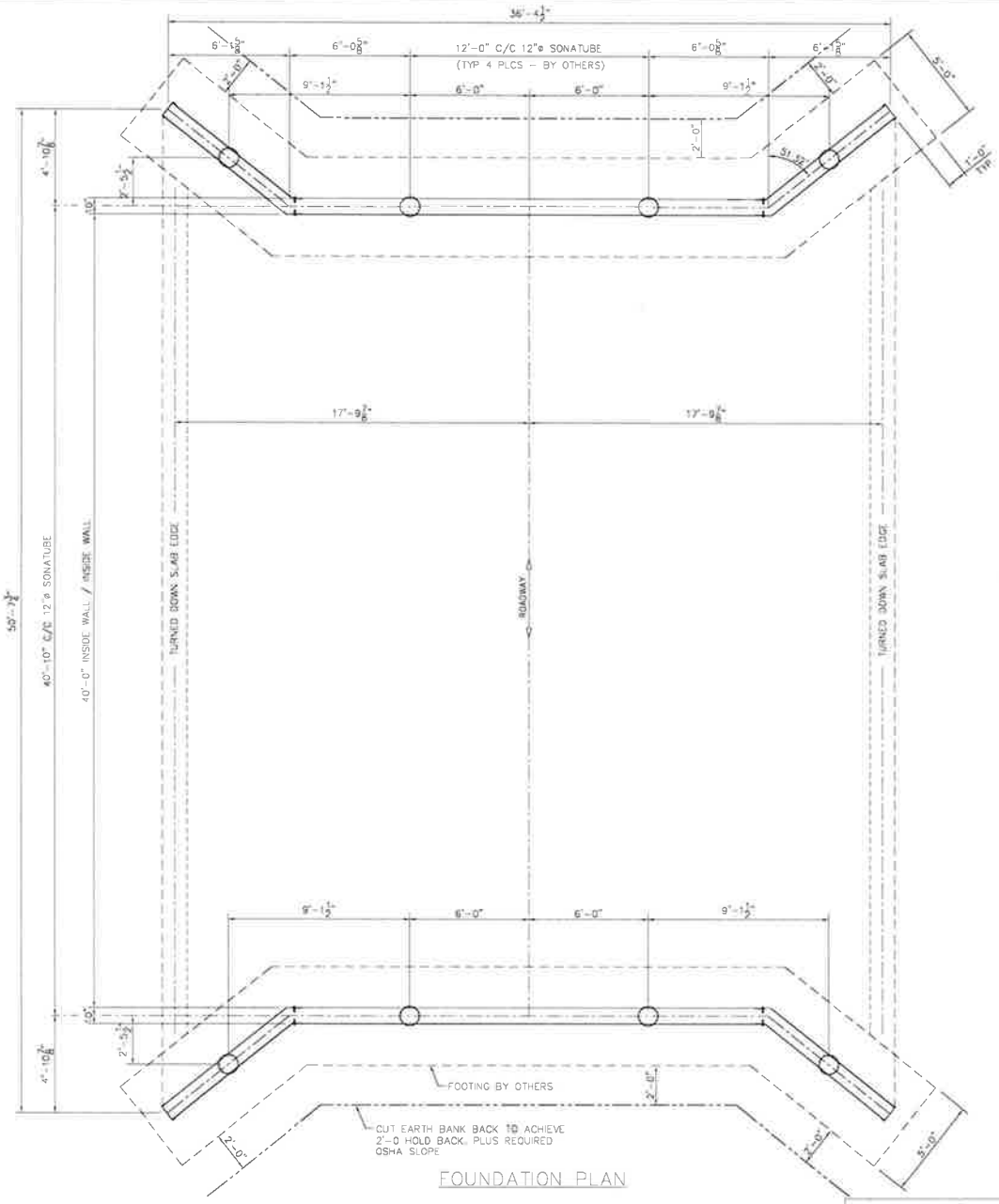
No.	DATE	DESCRIPTION	DATE	No.	TYPE	FOR
0	02/04/21	ISSUED FOR APPROVAL				

REVISIONS — PRINT REDONE

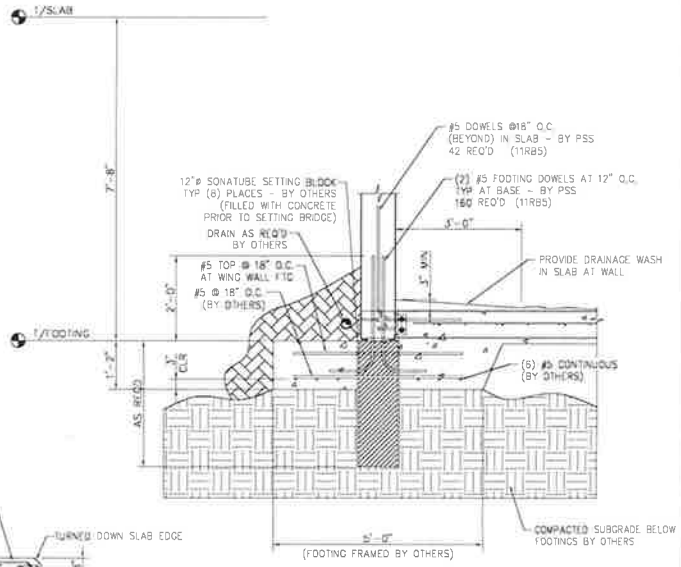
PREMIER Steel

Premier Steel Services, LLC
Hwy 6 & Highway 75
Denison, Oklahoma 74020
Telephone 903-327-0100
Fax 903-327-0101
www.premiersteelservices.com

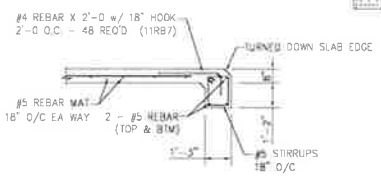
CUSTOMER:	THOMPSON CONSTRUCTION
PROJECT:	~~MGN MEATPACKING PLANT~~
LOCATION:	~~GLENPOOL, OKLAHOMA~~
DESCRIPTION:	BH-20W-40L FAST CAST BRIDGE
DRAWN BY: KS DATE: 02/04/21	CHECKED BY: AS DATE: 02/04/21 JOB NO: 0538 SHEET NO: CS-2



FOUNDATION PLAN



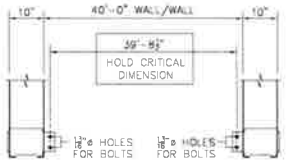
FOOTING DETAIL



SLAB EDGE DETAIL

NOTES:

1. GENERAL NOTES AND SPECIFICATIONS PER CS-1.
2. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL DIMENSIONS, SITE ELEVATIONS AND EXISTING CONDITIONS ARE IN COMPLIANCE WITH DESIGN SPECIFICATIONS.
3. EXCAVATION AND SUBGRADE PREPARATION IS BY OTHERS.
4. FOOTINGS SHALL BEAR ON COMPENTENT NATIVE SOIL AND/OR STRUCTURAL FILL PROVIDINGA MINIMUM ALLOWABLE BEARING PRESSURE AND SUBGRADE MODULUS AS SPECIFIED IN GENERAL NOTES.
5. BRIDGE SLABS, WALL AND FOUNDATIONS TO BE A MONOLITHIC POUR.



WALL SETTING DETAIL

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NO.	DATE	DESCRIPTION	DATE	NO.	TYPE	FOR
		REVISIONS	PRINT RECORD			

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PREMIER Steel

CUSTOMER:	THOMPSON CONSTRUCTION
PROJECT:	MCN MEAT PROCESSING FACILITY
LOCATION:	BEGGS, OKLAHOMA
DESCRIPTION:	8H-20W-40L FAST CAST BRIDGE

DRAWN BY: CJC DATE: 02/01/21 | CHECKED BY: AN DATE: 02/01/21 | JOB NO 0538 | SHEET NO F-1