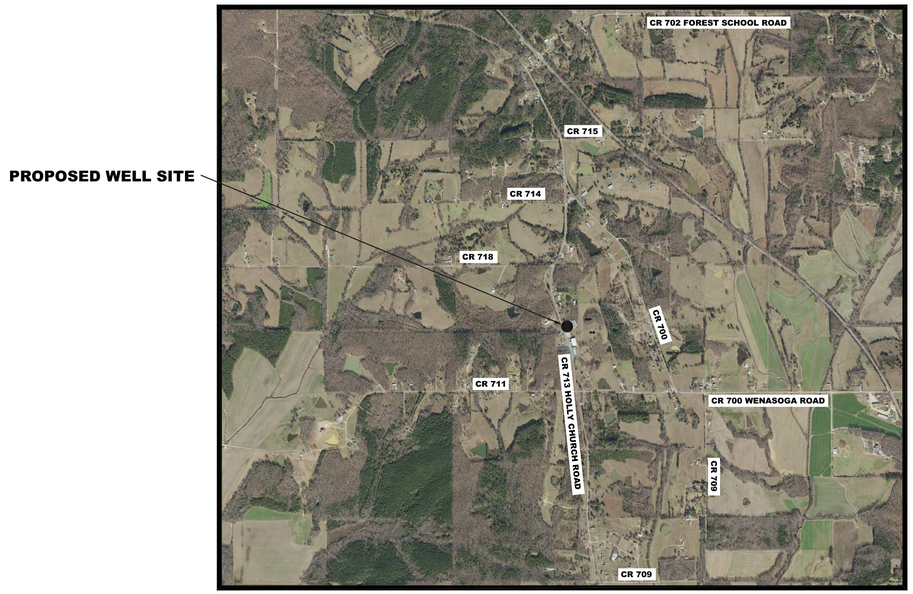
KOSSUTH WATER ASSOCIATION
WATER SYSTEM IMPROVEMENTS
WENASOGA AREA
CDBG PROJECT # 1136-19-225-PF-01

SHEET INDEX

LEGEND

- EXISTING WATER LINE
- EXISTING VALVE
- EXISTING FIRE HYDRANT
- EXISTING SEWER LINE
- EXISTING FORCE MAIN
- EXISTING GAS LINE
- EXISTING FIBER OPTIC LINE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- PROPOSED VALVE
- PROPOSED FIRE HYDRANT ASSEMBLY
- PROPOSED WATER LINE
- PROPOSED EASEMENT



VICINITY MAP

1"=1,500'

811 Know what's below. Call before you dig.

OWNER:

KOSSUTH WATER ASSOCIATION
10 COUNTY ROAD 613
CORINTH, MS 38634

MUNICIPAL OFFICIALS

MAYOR
DONALD PACE

ALDERMAN
JAMES ALLEN
DUSTY ESSARY
STEVE JONES
PAUL ROLISON
BILLY WHITE

TOWN CLERK
RANDY HOLT

TOWN ATTORNEY
NICK BAIN

S. MARK WARD
REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR PE-14249 PLS-02850 STATE OF MISSISSIPPI

S. MARK WARD
MS PE - 14249, MS PLS - 02850

'REVIEW OF THESE PLANS IS LIMITED TO GENERAL COMPLIANCE WITH LOCAL CODES AND REGULATIONS AND DOES NOT WARRANT THE ENGINEER'S DESIGN OR RELIEVE THE CONTRACTOR OF ANY REQUIREMENTS, EVEN IF ERRORS, OMISSIONS, OR ANY INADEQUACIES ARE DISCOVERED AFTER PLAN APPROVAL. THE LOCAL CODES SHALL GOVERN, IF ANY CONFLICTS OCCUR WITH THE PLANS OR SPECIFICATIONS.'

SCALE: 1"=1,500'
ISSUE DATE: APRIL 22, 2020

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F. 662-837-8592
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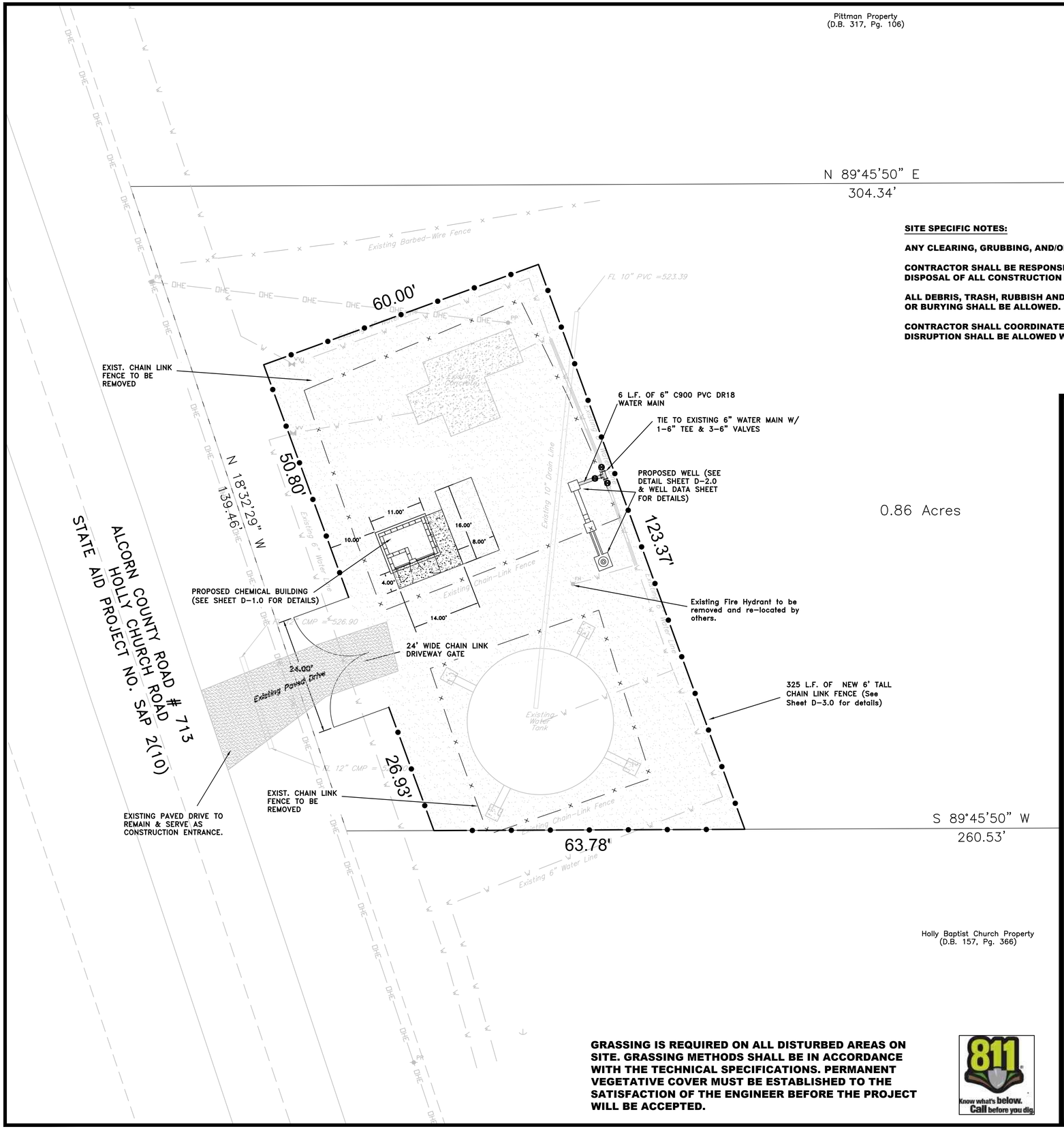
REVISIONS
IFB: APRIL 22, 2019

PROJECT TITLE: KOSSUTH WATER ASSOCIATION WATER SYSTEM IMPROVEMENTS – WENASOGA AREA CDBG PROJECT NO. 1136-19-225-PF-01

SHEET TITLE: COVER SHEET

PROJECT NO. KWA-19003

SHEET NO. C-0.0



0.86 Acres

GRID BEARINGS
OPUS SOLUTION
COORDINATES SHOWN ARE
SPC 2301 MS E NAD83(2011)
COMBINED SCALE FACTOR: 0.99993522
CONVERGENCE: 00°08'31.68"

0 10 20 Feet

SITE SPECIFIC NOTES:

ANY CLEARING, GRUBBING, AND/OR GRADING WORK NEEDED FOR WELL DEVELOPMENT IS INCLUDED UNDER CONTRACT.

CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY PERMITS OR FEES REQUIRED FOR THE DEMOLITION AND APPROPRIATE DISPOSAL OF ALL CONSTRUCTION DEBRIS AND RUBBISH GENERATED FROM PROJECT CONSTRUCTION.

ALL DEBRIS, TRASH, RUBBISH AND OTHER DEMOLISHED MATERIAL SHALL BE PROPERLY DISPOSED OF OFF SITE. NO ON-SITE BURNING OR BURYING SHALL BE ALLOWED.

CONTRACTOR SHALL COORDINATE WATER TIE-INS WITH THE TOWN OF KOSSUTH UTILITY DEPARTMENT. NO WATER SERVICE DISRUPTION SHALL BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE TOWN OF KOSSUTH UTILITY DEPARTMENT.

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GENERAL NOTES

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2. PRIOR TO THE INSTALLATION OF ANY DRAINAGE OR UTILITY LINE, THE CONTRACTOR SHALL EXCAVATE, VERIFY, AND CALCULATE ALL CROSSINGS AND INFORM THE ENGINEER OF ANY CONFLICTS PRIOR TO PROCEEDING WITH CONSTRUCTION. THE ENGINEER WILL BE HELD HARMLESS IN THE EVENT THE ENGINEER IS NOT NOTIFIED OF ANY CONFLICTS THAT MIGHT ARISE.
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4. CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE OWNER OF ANY DAMAGED OR INTERRUPTED UTILITIES IMMEDIATELY.
5. ALL WATER LINES AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CODES.
6. CONTRACTOR SHALL NOTIFY PROJECT ENGINEER IN WRITING 48 HOURS PRIOR TO BEGINNING WORK.
7. ANY AREAS TO BE PAVED ARE TO RECEIVE A GRAVEL BASE TO PROVIDE EROSION CONTROL IF WORK IS NOT PROGRESSING IN AN ORDERLY MANNER. A RATE OF 135 TONS/ACRE IS TO BE APPLIED WITHIN TWO WEEKS OF FINAL GRADING.
8. ALL AREAS NOT TO BE PAVED ARE TO RECEIVE LOOSE STRAW TO PROVIDE EROSION CONTROL IF WORK IS NOT PROGRESSING IN AN ORDERLY MANNER. A RATE OF 1.5 TONS/ACRE IS TO BE APPLIED WITHIN TWO WEEKS OF FINAL GRADING.
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10. ALL SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED MDOT AND THE MANUFACTURES STANDARD DRAWINGS AND SPECIFICATIONS.
11. ALL UTILITIES, SLEEVING, AND STORM DRAIN PIPE UNDER PAVED AREAS SHALL RECEIVE SELECT BACKFILL FULL DEPTH COMPACTED TO 95% MODIFIED PROCTOR.
12. THE INTENT OF THESE PLANS IS TO DESCRIBE THE COMPONENTS OF A COMPLETE WATER PRODUCTION WELL, READY TO USE, IN ACCORDANCE WITH THE SCOPE OF WORK IN THE TECHNICAL SPECIFICATIONS.
13. ALL PITS USED FOR DRILLING SHALL BE FILLED AND COMPACTED BACK TO ORIGINAL CONDITION.
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REVISIONS
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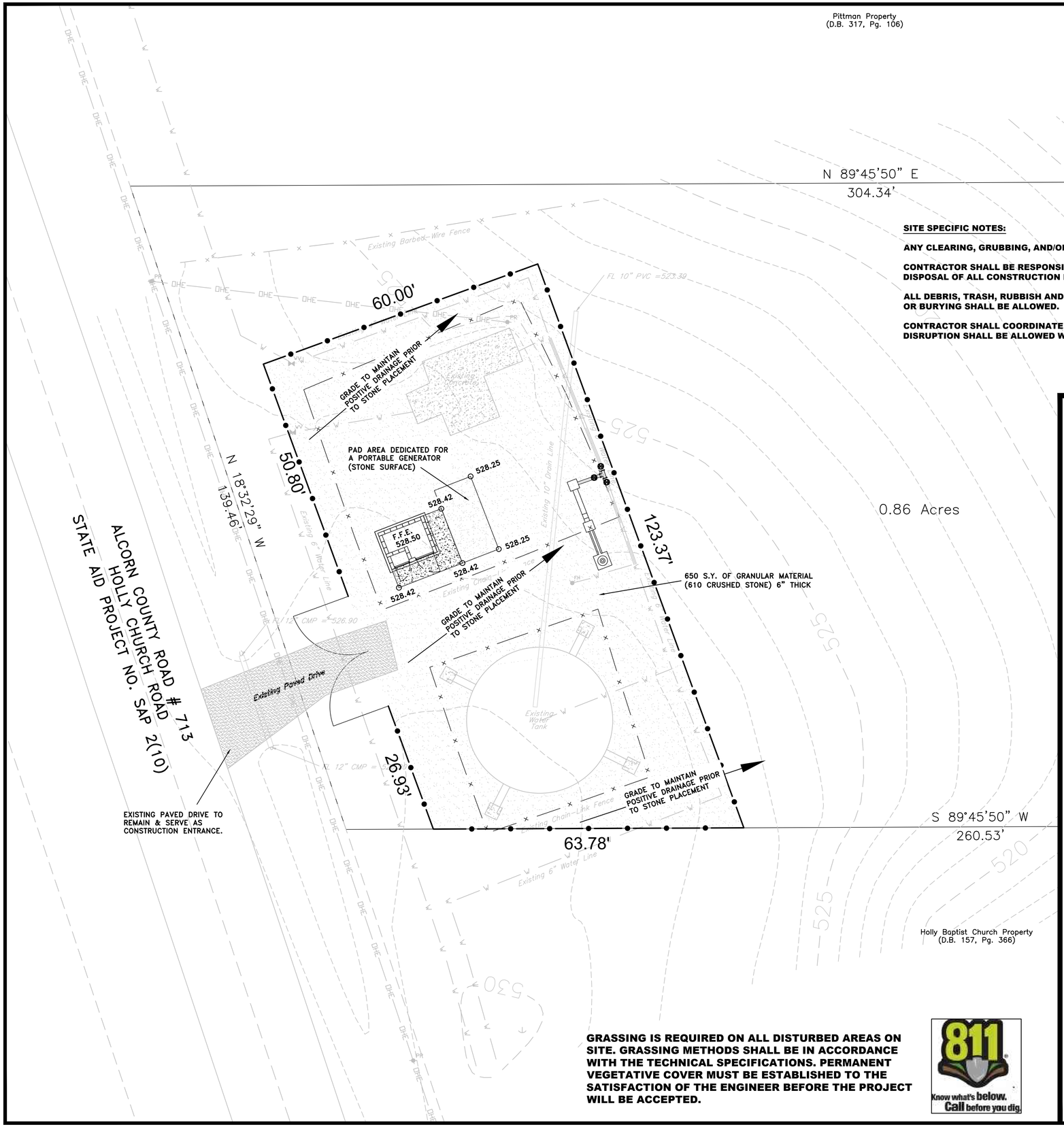
PROJECT TITLE:
KOSSUTH WATER ASSOCIATION – WENASOGA AREA
WATER SYSTEM IMPROVEMENTS
CDBG PROJECT NO. 1136-19-225-PF-01

SHEET TITLE:
WELL SITE PLAN

PROJECT NO.
KWA-19003

SHEET NO.
C-1.0



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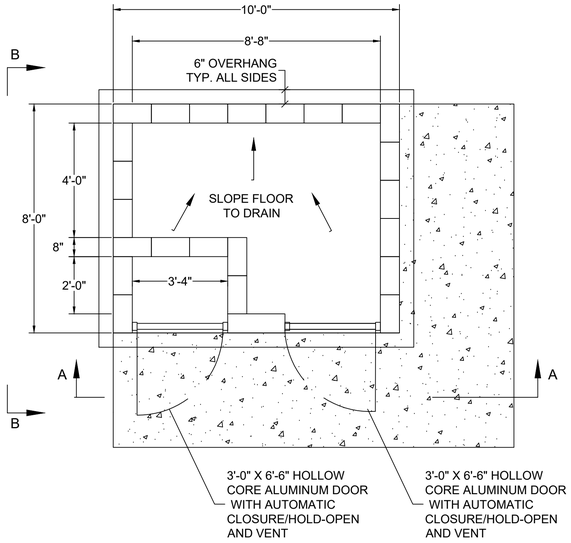
KOSSUTH WATER ASSOCIATION
WATER SYSTEM IMPROVEMENTS – WENASOGA AREA
CDBG PROJECT NO. 1136-19-225-PF-01

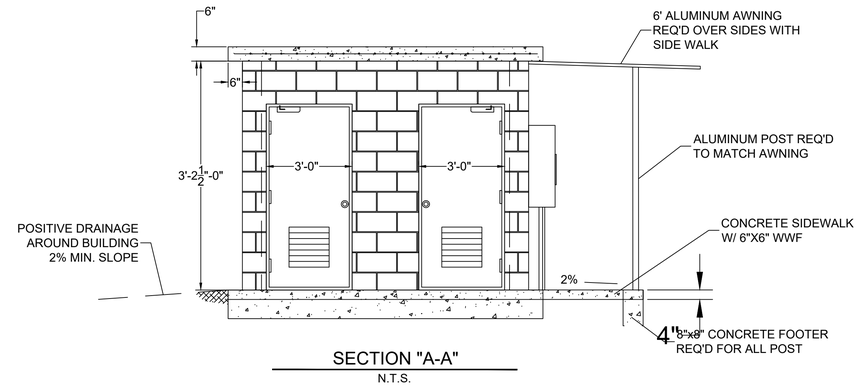
SHEET TITLE:
WELL & TANK GRADING PLAN

PROJECT NO.
KWA-19003

SHEET NO.
C-2.0



TOP VIEW
N.T.S.



SECTION "A-A"
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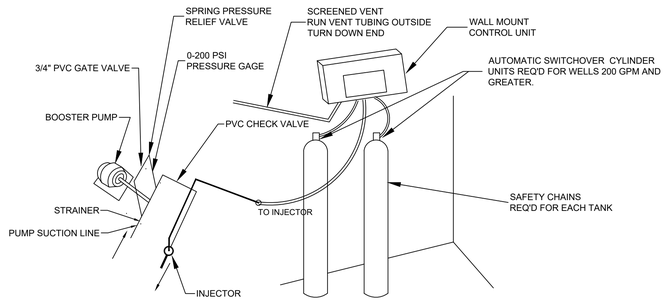
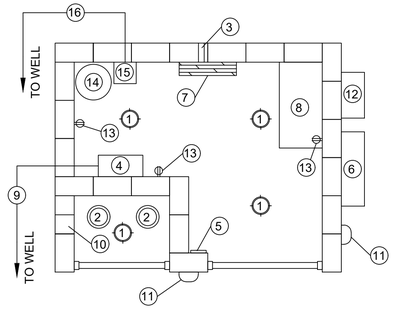


CHLORINATOR PIPING SCHEMATIC
N.T.S.

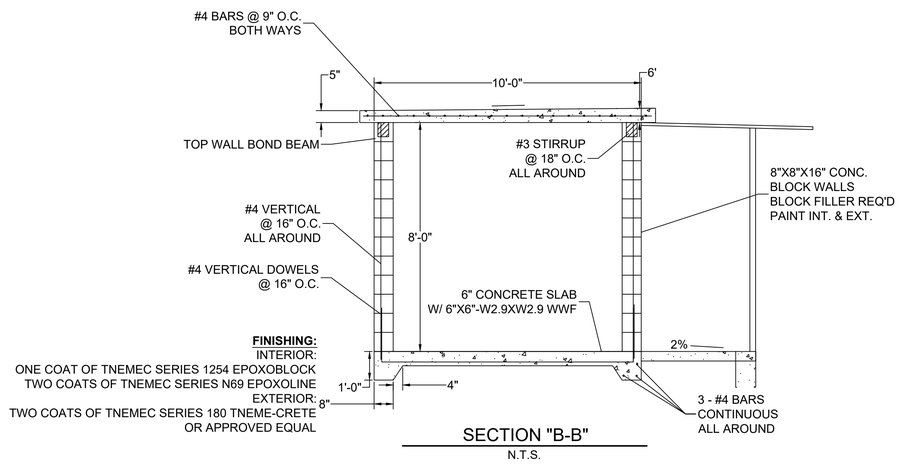


BUILDING INTERIOR DETAILS
N.T.S.

1. GAS PROOF LIGHTING
2. CHLORINE TANK
3. 2"X4" SCREENED FLOOR DRAIN
4. CHLORINE BOOSTER PUMP
5. LIGHT SWITCH
6. CONTROL PANEL
7. HEATER UNIT
8. 18"X36" SHELF
9. 1" SCH 80 PVC
10. 8"X8" VENT FAN
11. 11" WALL LIGHT WITH PHOTO CELL
ATLAS WL11 SERIES OR APPROVED EQUAL
12. WALL MOUNTED 200A DOUBLE THROW
TRANSFER SWITCH W/ LEVITON COLOR
CODED CAMLOKS W/ GENERATOR PLUG
13. 115V RECEPTACLE (TYP.)
14. PHOSPHATE TANK
15. CHEMICAL FEED PUMP
16. 1/2" SCH 80 PVC

NOTES:
PRECISE PLACEMENT OF PIPING & EQUIPMENT SHALL BE FIELD DETERMINED AND APPROVED BY OWNER/ENGINEER.

ALL CHEMICAL PUMPS TO BE CONTROLLED BY THE WELL STARTER.



SECTION "B-B"
N.T.S.

SCALE:
N.T.S.

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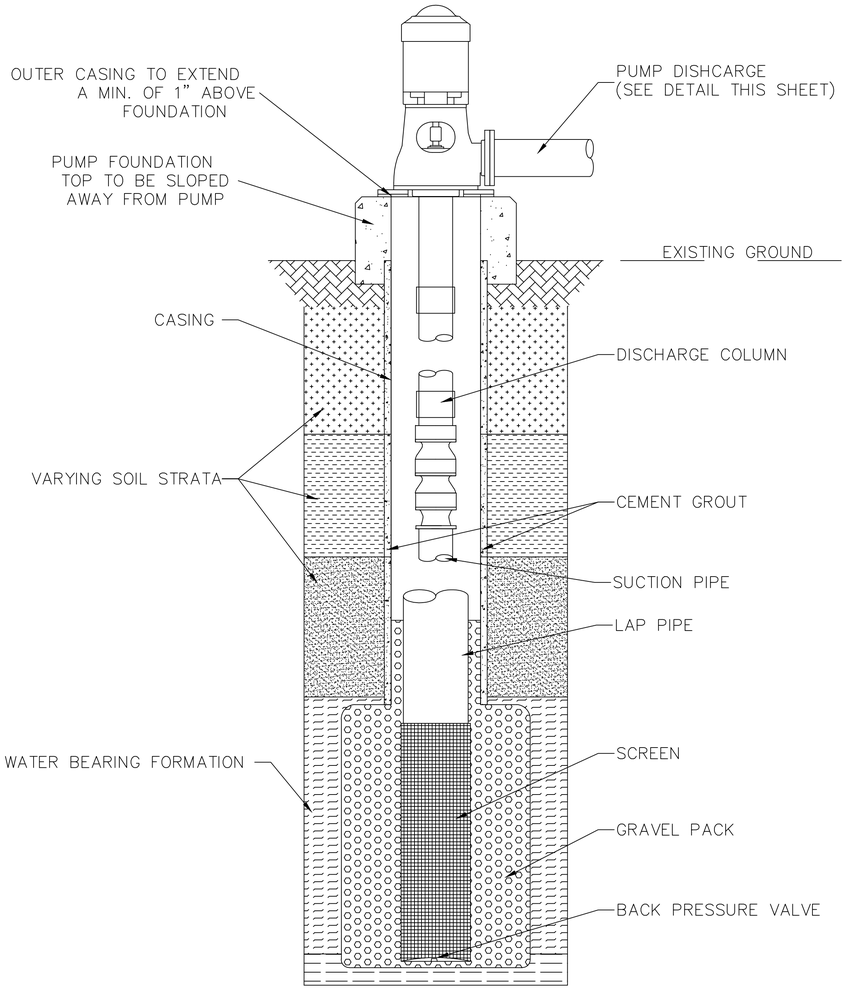
WATER SYSTEM IMPROVEMENTS – WENASOGA AREA
CDBG PROJECT NO. 1136-19-225-PF-01

SHEET TITLE:
CHEMICAL BUILDING DETAILS

PROJECT NO.
KWA-19003

SHEET NO.
D-1.0

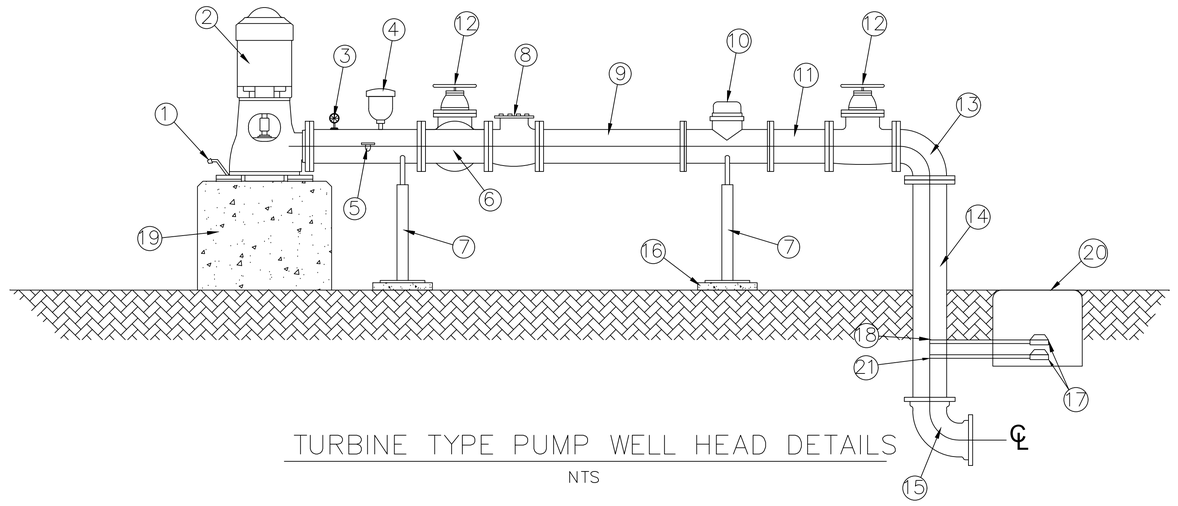
KOSSUTH WATER ASSOCIATION-WENASOGA WELL DETAIL



WELL PROFILE

NTS

*SEE WELL DATA SHEET OF THE TECHNICAL SPECIFICATIONS FOR MORE DETAIL.



TURBINE TYPE PUMP WELL HEAD DETAILS

NTS

LEGEND		
ID	DESCRIPTION	PLUMBING SIZE 6 IN
1	CASING VENT W/ VENT SCREEN	
2	ELECTRIC MOTOR	
3	PRESSURE GAUGE	
4	AIR RELEASE VALVE W/ VENT SCREEN	
5	SAMPLE FAUCET	
6	FLANGED DI TEE W/ BLIND FLANGE	
7	PIPE SUPPORT	
8	CHECK VALVE	
9	FLANGED DI SPOOL (MIN OF 5 PIPE DIA. IN LENGTH)	
10	MASTER METER "WATER SPECIALTIES ML-04-D" WITH STRAIGHTENING VANES	
11	FLANGED DI SPOOL (MIN OF 2 PIPE DIA. IN LENGTH)	
12	GATE VALVE	
13	90° FLANGED ELBOW	
14	DI SPOOL	
15	90° MJ ELBOW	
16	16"X16"X4" CONCRETE PAD FOR SUPPORTS	
17	BALL VALVE	
18	1" TAP CHLORINE INJECTION	
19	PUMP FOUNDATION	
20	METER BOX FOR BALL VALVES	
21	1/2" TAP PHOSPHATE INJECTION	

SCALE: N.T.S.

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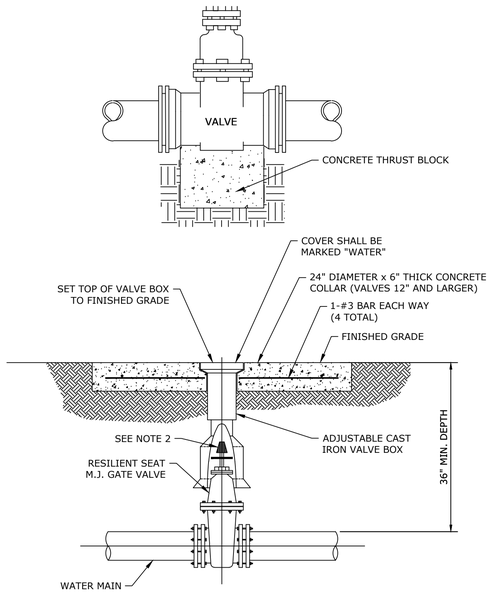
SHEET TITLE: WELL DETAILS

PROJECT NO. KWA-19003

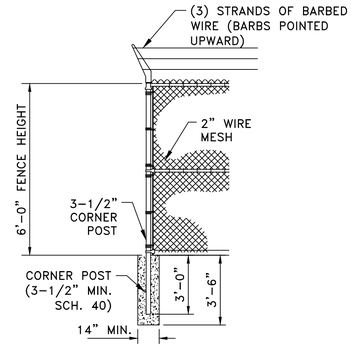
SHEET NO. **D-2.0**



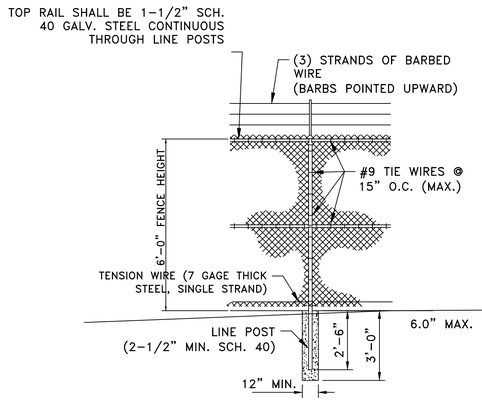
NOTES:
1. PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.
2. THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO COME UP TO 4 FOOT DEPTH BELOW FINISHED GRADE.
3. DEPENDING ON DEPTH, A 90° OPERATOR MAY BE REQUIRED.

WATER MAIN GATE VALVE AND BOX DETAIL
SCALE: NOT TO SCALE

CHAIN LINK FENCING NOTES:
1. **2" WIRE MESH SHALL BE No. 9 GAUGE 2.0 oz. HOT DIPPED GALVANIZED STEEL AFTER WEAVING WITH TOP AND BOTTOM SELVAGES TWISTED AND BARBED.**
2. **ALL STEEL FRAMEWORK AND APPURTENANCES SHALL BE 2.0 oz. HOT DIPPED GALVANIZED.**
3. **3 STRANDS OF BARB WIRE SHALL BE 12 GAUGE STEEL WIRE WITH 4 POINT BARBS ON 5" CENTERS, WIRE TO HAVE 0.40 oz. ALUMINUM ALLOY COATING PER SQUARE FOOT.**
4. **CORNER & BRACE POST SHALL BE 3-1/2" HOT DIPPED GALVANIZED STEEL PIPE WEIGHING 9.11 LBS. PER LINEAR FOOT.**
5. **LINE POST SHALL BE 2-1/2" HOT DIPPED GALVANIZED STEEL PIPE WEIGHING 5.79 LBS. PER LINEAR FOOT.**
6. **GATE POST SHALL BE 4" HOT DIPPED GALVANIZED STEEL PIPE WEIGHING 10.79 LBS. PER LINEAR FOOT.**
7. **GATE FRAME SHALL BE 1-1/2" HOT DIPPED GALVANIZED STEEL PIPE WEIGHING 2.72 LBS. PER LINEAR FOOT.**
8. **TOP RAILS & POST BRACE ASSEMBLIES SHALL BE 1-1/2" HOT DIPPED GALVANIZED STEEL PIPE WEIGHING 2.72 LBS. PER LINEAR FOOT.**
9. **TENSION WIRE SHALL BE No. 7 GAUGE ALUMINIZED STEEL WIRE, SINGLE STRAND AT BOTTOM OF FABRIC.**
10. **POSTS SHALL BE INSTALLED AT A MAXIMUM SPACING OF 10' ON CENTERS.**



FENCE BRACE POST
SCALE: NOT TO SCALE



FENCE LINE POST
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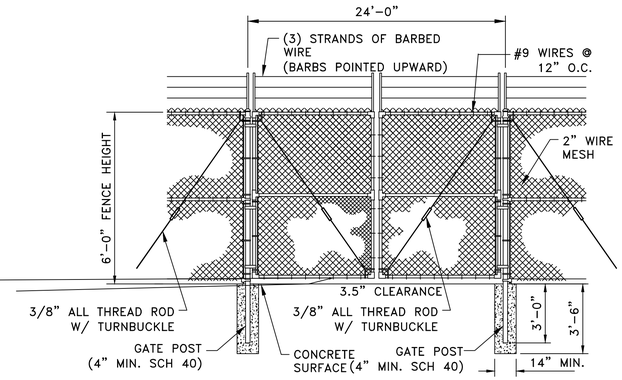
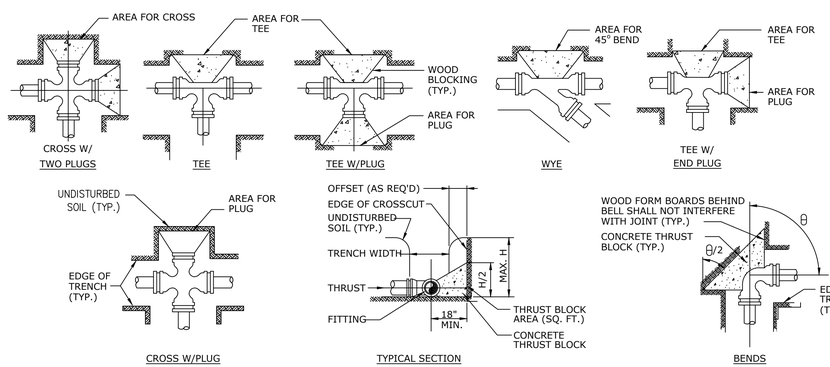


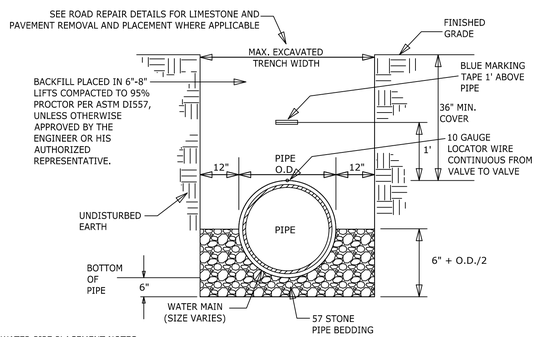
DRIVEWAY GATE DETAIL
SCALE: NOT TO SCALE



SCHEDULE FOR THRUST BLOCK AREAS

PIPE SIZE (INCHES)	90 BEND (SQ FT)	45 BEND (SQ FT)	22-1/2 BEND (SQ FT)	11-1/4 BEND (SQ FT)	TEE & PLUG (SQ FT)	CROSS (SQ FT)	WYE (SQ FT)	DESIGN PRESS (PSI)
4								100 / 150
6	3.5 / 5.3	1.9 / 2.9	1.0 / 1.5	1.0	2.5 / 3.7	5.3	2.9	100 / 150
8	6.1 / 9.1	3.3 / 4.9	1.7 / 2.5	1.0 / 1.3	4.3 / 6.4	9.1	4.9	100 / 150
10	9.1 / 13.7	4.9 / 7.4	2.5 / 3.8	1.3 / 1.9	6.5 / 9.7	13.7	7.4	100 / 150
12	12.9 / 19.4	7.0 / 10.5	3.6 / 5.3	1.8 / 2.7	9.1 / 13.7	19.4	10.5	100 / 150
16	21.0	11.4	5.8	2.9	14.9			100 / 150
18								100 / 150
20	34.5	18.7	9.5	4.8	24.4			100 / 150
24								100 / 150

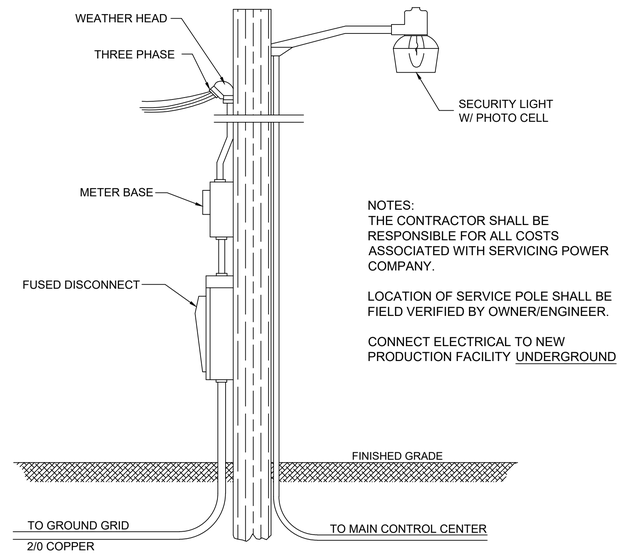
THRUST BLOCK DETAIL
SCALE: NOT TO SCALE



WATER PIPE PLACEMENT NOTES:

1. WATER PIPE SHALL BE PVC OR DUCTILE IRON (D.I.) IN ACCORDANCE WITH THE SPECIFICATION. LOCATION FOR INSTALLATION OF PVC OR D.I. PIPE SHALL BE AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.
2. BACKFILL MATERIAL SHALL BE PLACED ON BOTH SIDES OF PIPE SIMULTANEOUSLY DURING BACKFILLING OPERATIONS TO PREVENT SHIFTING OR DAMAGE TO PIPE.

WATER PIPE PLACEMENT
SCALE: NOT TO SCALE



NOTES:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH SERVICING POWER COMPANY.

LOCATION OF SERVICE POLE SHALL BE FIELD VERIFIED BY OWNER/ENGINEER.

CONNECT ELECTRICAL TO NEW PRODUCTION FACILITY UNDERGROUND

SERVICE POLE DETAIL
SCALE: NOT TO SCALE

SCALE: N.T.S.

ISSUE DATE: APRIL 22, 2020

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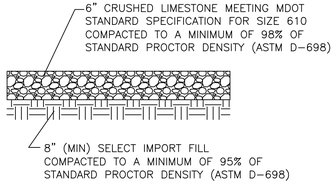
REVISIONS
IFB: APRIL 22, 2019

PROJECT TITLE: KOSSUTH WATER ASSOCIATION – WATER SYSTEM IMPROVEMENTS – WENASOGA AREA CDBG PROJECT NO. 1136-19-225-PF-01

SHEET TITLE: MISCELLANEOUS DETAILS

PROJECT NO. KWA-19003

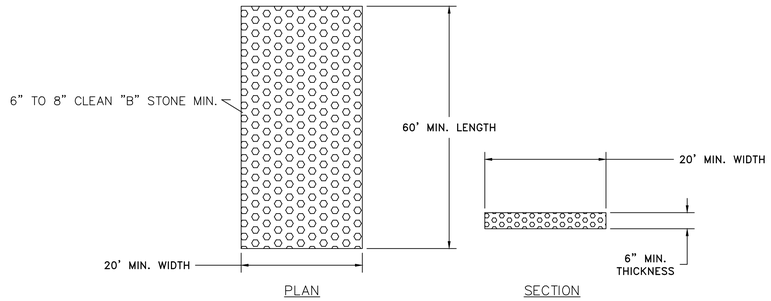
SHEET NO. D-3.0



TYPICAL SECTION

GRANULAR MATERIAL (610 CRUSHED STONE) PAVING

SCALE: NOT TO SCALE



DETAIL #2 GRAVEL CONSTRUCTION ENTRANCE

SCALE: NOT TO SCALE

NOTES:

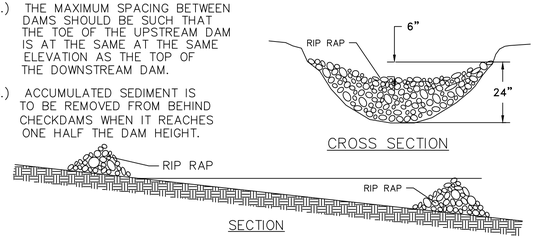
1.) THE MAXIMUM HEIGHT OF THE CHECK DAM IS 2 FEET.

2.) CHECK DAM CENTER MUST BE BE 6 INCHES LOWER THAN OUTER EDGES.

3.) THE MAXIMUM SPACING BETWEEN DAMS SHOULD BE SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.

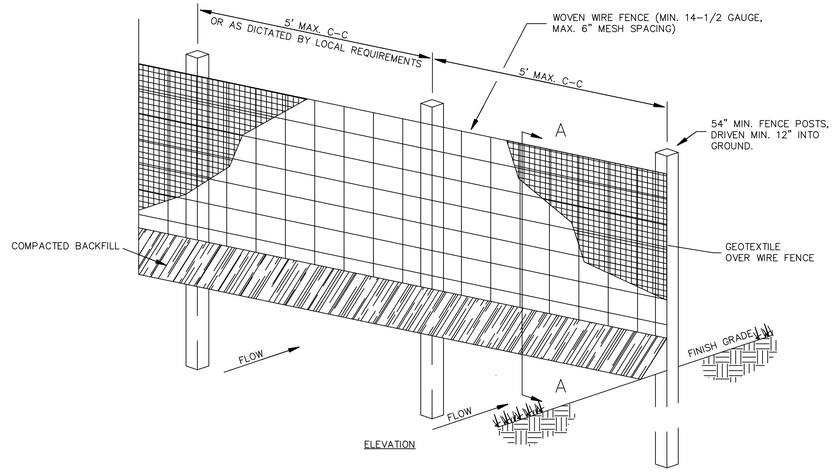
4.) ACCUMULATED SEDIMENT IS TO BE REMOVED FROM BEHIND CHECKDAMS WHEN IT REACHES ONE HALF THE DAM HEIGHT.

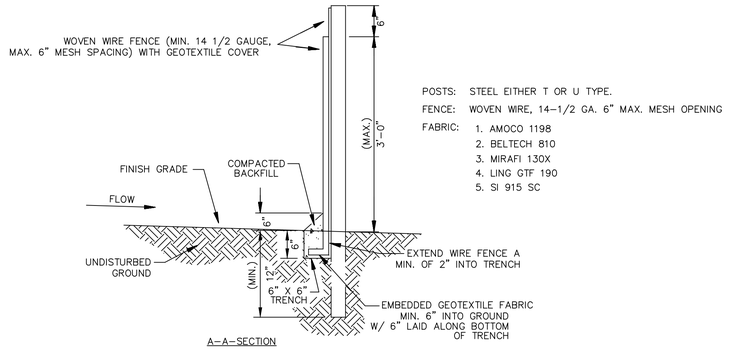
5.) EROSION AROUND DAM EDGES IS TO BE CORRECTED CORRECTED IMMEDIATELY.



DETAIL #1 CHECK DAM

SCALE: NOT TO SCALE





1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES.
2. GEOTEXTILE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF GEOTEXTILE ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE EROSION CONTROL PLAN. COLLECTED MATERIAL SHALL BE REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
5. ALL SILT FENCE SHALL INCLUDE WIRE SUPPORT UNLESS INDICATED OTHERWISE

SEDIMENTATION/SILT FENCE WITH WIRE SUPPORT

SCALE: NOT TO SCALE

SCALE: N.T.S.

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SHEET NO. D-4.0