

PRINTED: 2/25/2014 @ 9:55AM

FILE NAME: I:\32335 - IHRWD - Division G\Drawg\Design\G-1\Drawg\3235-G-1-G-01.dwg

INDEX OF DRAWINGS	
NO.	DRAWING TITLE
GENERAL	
G-00	COVER SHEET
G-01	INDEX OF DRAWINGS AND GENERAL NOTES
G-02	SURVEY CONTROL
CIVIL/SITE WORK	
C-01	WELLFIELD SITE PLAN
C-02	WATER TREATMENT PLANT – SITE LOCATION AND GRADING PLAN
C-03	WATER TREATMENT PLANT – SITE PIPING PLAN AND DETAILS
C-04	ON-SITE SANITARY DISPOSAL SYSTEM PLAN AND DETAILS
C-05	EROSION CONTROL PLAN
C-06	EROSION CONTROL DETAILS
C-07	STANDARD DETAILS
MECHANICAL/PROCESS	
M-00	WTP PROCESS FLOW DIAGRAM AND PROCESS VALVE SCHEDULE
M-01	NEW WELL NO. 3 PLANS, SECTION AND DETAILS
M-02	EXISTING WELL NOS. 1 & 2 PLATFORM PLANS, SECTIONS AND DETAILS
M-03	EXISTING TREATMENT PLANT BUILDING – DEMOLITION PLAN
M-04	EXISTING TREATMENT PLANT BUILDING – IMPROVEMENTS PLAN AND SECTIONS
M-05	EXISTING TREATMENT PLANT BUILDING – CHEMICAL FEED SCHEMATIC AND ELEVATIONS
M-06	CHEMICAL FEED VAULT PLANS, SECTION & DETAIL
M-07	NEW TREATMENT PLANT BUILDING – PROCESS PLAN AND ILLUSTRATIVE SECTION
M-08	NEW TREATMENT PLANT BUILDING – MECHANICAL PROCESS SECTIONS
M-09	NEW CLEARWELL – ROOF PLAN AND SECTIONS
M-10	NEW CLEARWELL – FLOOR PLAN AND WALL SECTIONS AND DETAILS
M-11	NEW CLEARWELL – DETAILS
M-12	NEW CLEARWELL – DETAILS
STRUCTURAL	
S-01	NEW TREATMENT PLANT BUILDING – STRUCTURAL GENERAL NOTES
S-02	NEW TREATMENT PLANT BUILDING – STRUCTURAL TYPICAL DETAILS
S-03	NEW TREATMENT PLANT BUILDING – STRUCTURAL TYPICAL DETAILS
S-04	NEW TREATMENT PLANT BUILDING – LOWER FOUNDATION PLAN
S-05	NEW TREATMENT PLANT BUILDING – UPPER FDN & SLAB & ROOF FRMG PLAN
S-06	NEW TREATMENT PLANT BUILDING – STRUCTURAL SECTIONS & DETAILS

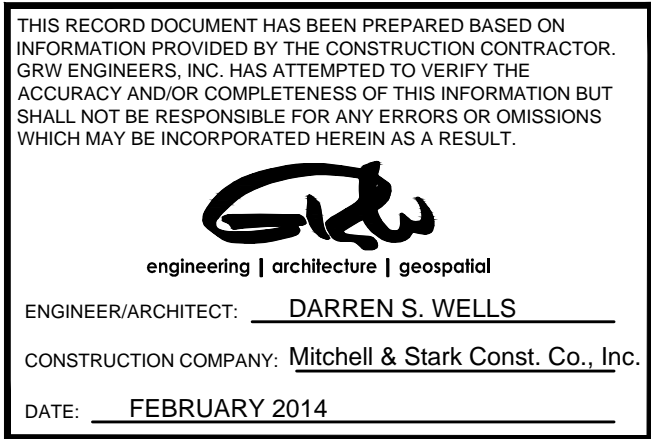
SYMBOLS LEGEND

	TEMP. BENCHMARK (TBM)		FIRE HYDRANT		EXISTING RIGHT-OF-WAY
	CP-x CONTROL POINT		DI DUCTILE IRON		APPROX. PROPERTY LINE
	SB#x SOIL BORING		RJDI RESTRAINED JOINT DUCTILE IRON		CENTERLINE
	SSB#x SEPTIC SOIL BORING		PROPOSED SANITARY MANHOLE		DITCH OR FLOWLINE
	POWER POLE		PROPOSED 11° BEND		1' CONTOUR
	GUY WIRE		PROPOSED 22° BEND		5' CONTOUR
	STREET SIGN		PROPOSED 45° BEND		PROPOSED CONTOUR
	POT		PROPOSED 90° BEND		PROPOSED DITCH
	POST		PROPOSED CAP		CONSTRUCTION LIMITS
	TREE (DECIDUOUS)		PROPOSED FIRE HYDRANT		FENCE
	MISCELLANEOUS		PROPOSED TEE		PROPOSED PERMANENT FENCE
	WATER METER		PROPOSED WATER VALVE		SANITARY SEWER
	WATER VALVE		PROPOSED REDUCER		PROPOSED SANITARY SEWER
	APPROXIMATE SOLID ROCK ELEVATION, NO GUARANTEE OF ACCURACY OR ADEQUACY; SEE SPECIFICATIONS		SURFACE RESTORATION		STORM CULVERT
			GRANULAR BACKFILL		UNDERGROUND ELECTRIC
			CONCRETE PAD / SIDEWALK		GAS MAIN
			GRASS		UNDERGROUND TELEPHONE
			STONE PERIMETER		WATER MAIN
			DEMOLITION AREA		PROPOSED WATER MAIN
			PROPOSED GRAVEL DRIVE		EXISTING YARD PIPING; ABANDONED IN PLACE

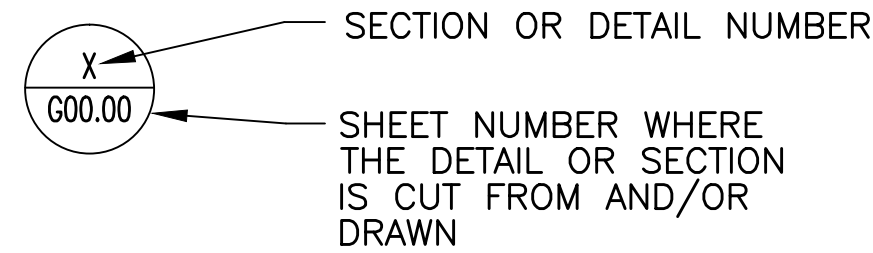
INDEX OF DRAWINGS (CONT'D)	
NO.	DRAWING TITLE
ARCHITECTURAL	
A-01	EXISTING TREATMENT PLANT BUILDING – NEW WORK PLAN, SCHEDULES, DETAILS
A-02	EXISTING TREATMENT PLANT BUILDING – DEMO/NEW WORK ELEVATIONS, DEMO PLAN
A-03	EXISTING TREATMENT PLANT BUILDING – SECTIONS, DETAILS
A-04	NEW TREATMENT PLANT BUILDING – NEW BUILDING PLAN, ELEVATIONS
A-05	NEW TREATMENT PLANT BUILDING – NEW BUILDING SECTIONS, DETAILS
MECHANICAL/HVAC	
H-01	EXISTING PLANT BUILDING – HVAC PLAN
HP-02	NEW PACKAGED TREATMENT UNIT – HVAC AND PLUMBING PLAN
PLUMBING	
P-01	EXISTING PLANT BUILDING – PLUMBING PLAN
P-02	EXISTING PLANT BUILDING – PLUMBING DIAGRAMS
ELECTRICAL	
E-00	FREQUENTLY USED STANDARD SYMBOLS, ABBREVIATIONS AND NOTES
E-01	WELLFIELD ELECTRICAL SITE PLAN
E-02	NEW DIESEL STANDBY GENERATOR – ELECTRICAL PLAN
E-03	WELL NO. 1 – ELECTRICAL PLANS AND ELEVATIONS
E-03A	WELL NO. 1 – ELECTRICAL PLANS AND ELEVATIONS – ADDITIVE ALTERNATE BID
E-04	WELL NOS. 2 & 3 – ELECTRICAL PLANS
E-04A	WELL NOS. 2 & 3 – ELECTRICAL PLANS – ADDITIVE ALTERNATE BID
E-05	EXISTING ONE-LINE DIAGRAM
E-05A	EXISTING ONE-LINE DIAGRAM – ADDITIVE ALTERNATE BID
E-06	NEW ONE-LINE DIAGRAM
E-06A	NEW ONE-LINE DIAGRAM – ADDITIVE ALTERNATE BID
E-07	PROPOSED WELLFIELD – SCADA SCOPE OF WORK DIAGRAM
E-08	TREATMENT PLANT – ELECTRICAL SITE PLAN
E-09	EXISTING PLANT BUILDING – ELECTRICAL REMOVAL PLAN
E-10	EXISTING PLANT BUILDING – NEW ELECTRICAL PLAN
E-11	EXISTING PLANT BUILDING – ELECTRICAL I AND C PLAN
E-12	NEW PACKAGED TREATMENT UNIT – ELECTRICAL AND I&C PLAN
E-13	TREATMENT PLANT – ONE-LINE DEMOLITION PLAN
E-14	TREATMENT PLANT – ONE-LINE NEW WORK PLAN
E-15	MISCELLANEOUS DETAILS
E-16	MISCELLANEOUS DETAILS


PROCESS/YARD PIPING ABBREVIATIONS

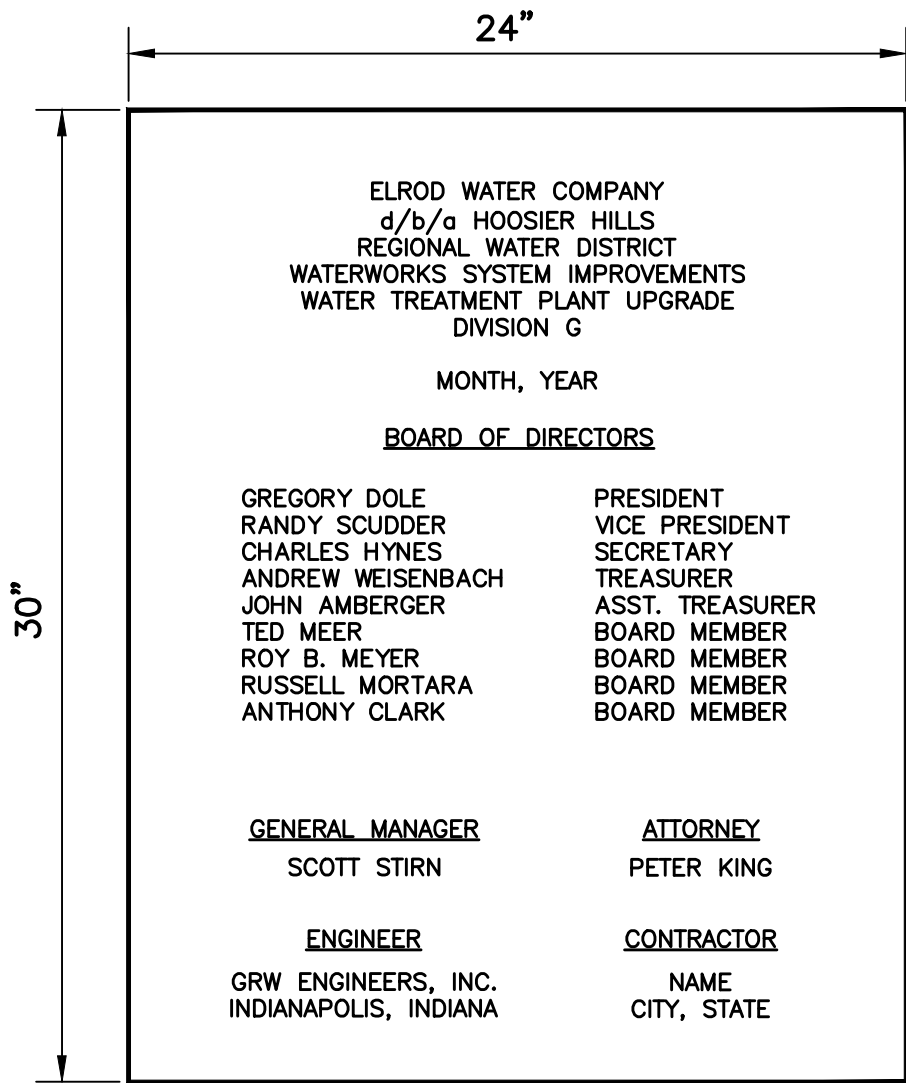
A –	AIR
BD –	BACKWASH DRAIN
BS –	BACKWASH SUPPLY
BW –	BACKWASH WASTE
CG –	CHLORINE GAS
CS –	CHLORINE SOLUTION
D –	DRAIN
F –	FLOURIDE
FE –	FILTER EFFLUENT
FI –	FILTER INFLUENT
FM –	FORCE MAIN (SANITARY)
FW –	FINISHED WATER
OF –	OVERFLOW
RW –	RAW WATER
S –	SAMPLE
SAN –	SANITARY SEWER
SS –	STORM SEWER
V –	VENT
W –	WATER (DOMESTIC)



BUBBLE & SECTIONING CONVENTIONS



INDEX OF DRAWINGS AND GENERAL NOTES HOOSIER HILLS REGIONAL WATER DISTRICT CONTRACTS G-1 & G-5				CLIENT CONTRACT NO. G-1/G-5			GRW PROJECT NO. 3235-04		
				DRAWING SCALE CHECK: _____ THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED					
 engineering architecture geospatia							This document, originally issued, sealed, and signed by Darren S. Wells, Indiana Professional Engineer, No. 10100200, on March 26, 2012, shall not be used in lieu of a certified document.		
1 AS-BUILTS				2/14	JAJ	DESIGNED: DSW		DATE: FEBRUARY 2012	
NO. DESCRIPTION				DATE	BY	DRAWN: JAJ		SCALE: N.T.S.	
REVISIONS						REVIEWED: DRC		SHEET NO.	
						APPROVED: DSW		G-01	



DEDICATION PLAQUE DETAIL

SCALE: N.T.S.

DEDICATION PLAQUE NOTES:

- DEDICATION PLAQUE SHALL BE CAST ALUMINUM, HELVETICA BLOCK STYLE LETTERS AND A RAISED EDGE BORDER (SINGLE LINE).
- BACKGROUND SHALL BE PEBBLE TEXTURE. PLAQUE BACKGROUND, LETTERING, AND BORDER COLORS AND FINISH SHALL BE SELECTED BY OWNER DURING SHOP DRAWING REVIEW.
- PLAQUE SHALL BE WALL-MOUNTED TO EXTERIOR OF THE WATER TREATMENT PLANT BUILDING AT A LOCATION AND HEIGHT SELECTED BY THE OWNER. WALL-MOUNTING HARDWARE SHALL BE CONCEALED TYPE.
- CONTRACTOR SHALL SUBMIT A RUBBING, TOGETHER WITH ALL NECESSARY INFORMATION TO THE ENGINEER FOR APPROVAL PRIOR TO PLACING ORDER.

GENERAL NOTES:

- ALL INFORMATION REGARDING HORIZONTAL AND VERTICAL CONTROL IS BASED ON BEST INFORMATION AVAILABLE UTILIZING RECORD DRAWINGS OF THE SITE AND COUNTY SURVEY DATA. THE ENGINEER DOES NOT GUARANTEE OR ASSURE THAT SUCH INFORMATION IS CORRECT. THE CONTRACTOR SHALL DETERMINE WHICH CONTROLS CONFLICT WITH HIS WORK AND VERIFY THOSE ELEVATIONS, NOTIFY ENGINEER OF ANY SUCH CONFLICT OR CHANGE FOR APPROVAL, AND ADJUST HIS WORK ACCORDINGLY TO MAINTAIN PROPOSED ELEVATIONS RELATIVE TO THOSE VERIFIED.
- ALL LOCATIONS, SIZES, AND ELEVATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE BASED ON BEST INFORMATION AVAILABLE. THE ENGINEER DOES NOT GUARANTEE OR ASSURE THAT SUCH INFORMATION IS TRUE OR EVEN APPROXIMATE. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY COMPANIES AND THE UNDERGROUND UTILITY PROTECTION SERVICE PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL EXISTING UTILITIES, WHETHER IDENTIFIED ON THE DRAWINGS OR NOT.
- CONTRACTOR IS RESPONSIBLE FOR RELOCATING AND/OR SUPPORTING, AT HIS OWN EXPENSE, ANY EXISTING UTILITY LINES AND/OR SERVICE POLES TO REMAIN IN SERVICE, AS NECESSARY TO COMPLETE CONSTRUCTION OPERATIONS.
- ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL CONDITIONS UNLESS NOTED OR SPECIFIED OTHERWISE.
- CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DONE TO STATE, TOWN, OR PRIVATE PROPERTY, INCLUDING DRIVES, SIDEWALKS, DRAINAGE SYSTEMS, FENCES, AND THE LIKE AS A RESULT OF THE CONTRACTOR'S WORK AND SHALL BE RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE AFFECTED PERMITTING AGENCY, OWNER, AND ENGINEER.
- WATER MAIN SHALL BE INSTALLED WITH A MINIMUM OF 48" OF COVER, UNLESS OTHERWISE NOTED.
- ALL FITTINGS NOTED AS "RJDI" SHALL BE RESTRAINED JOINT DUCTILE IRON BENDS WITH RESTRAINED PIPE LENGTHS IDENTIFIED ON THIS SHEET.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO AVOID EXISTING UTILITIES AND PERFORM ANY REQUIRED REPAIRS. IN ADDITION TO ALL UTILITY LINES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AND REPAIRS TO BURIED FIBER OPTIC CABLE, FIELD DRAINAGE TILES, AND PRIVATE IRRIGATION SYSTEMS. THE CONTRACTOR SHALL NOTIFY THE OWNER/ENGINEER WHEN UTILITIES OR OTHER SUBSURFACE LINES ARE DAMAGED. INDIANA UNDERGROUND UTILITIES PROTECTION SERVICE SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO BEGINNING ANY WORK. INDIANA UNDERGROUND UTILITIES PROTECTION SERVICE TELEPHONE IS 811. THE CONTRACTOR SHALL REFER TO APPLICABLE SECTIONS OF THE CONTRACT SPECIFICATIONS RELATIVE TO THE ABOVE.