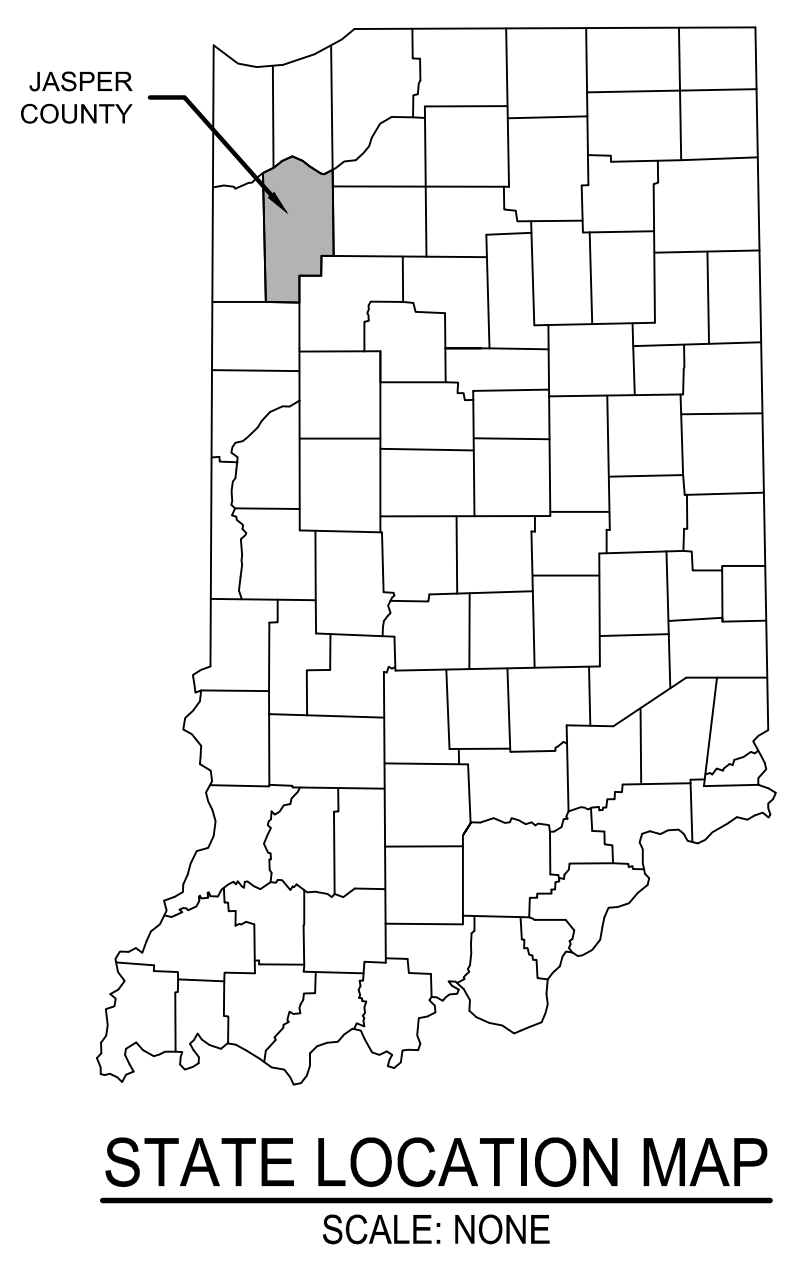
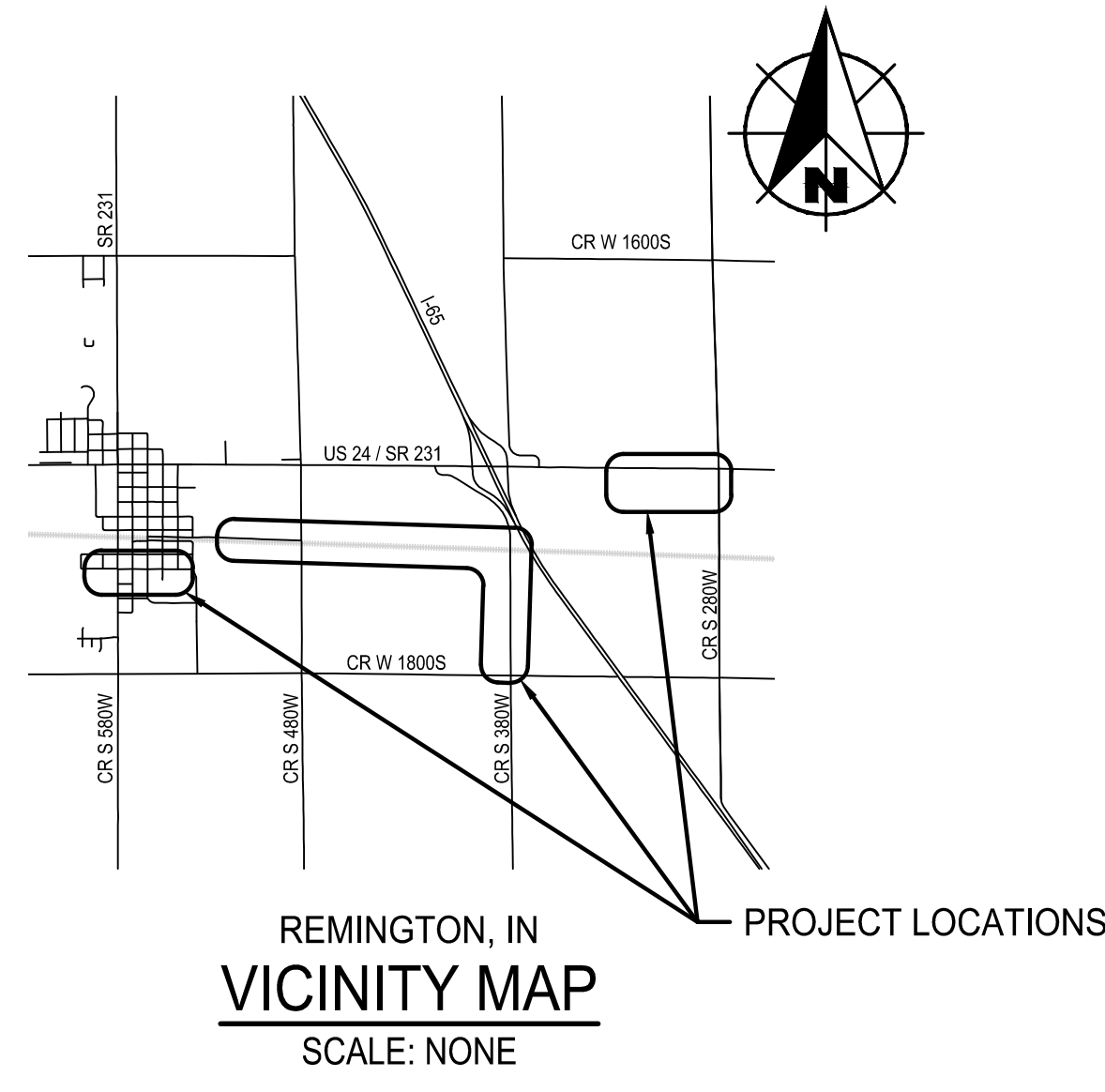


REMINGTON / WHITE COUNTY WATER MAIN EXTENSION - PHASE I

FOR THE TOWN OF REMINGTON, INDIANA



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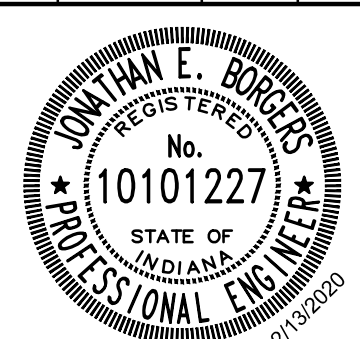
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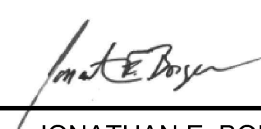
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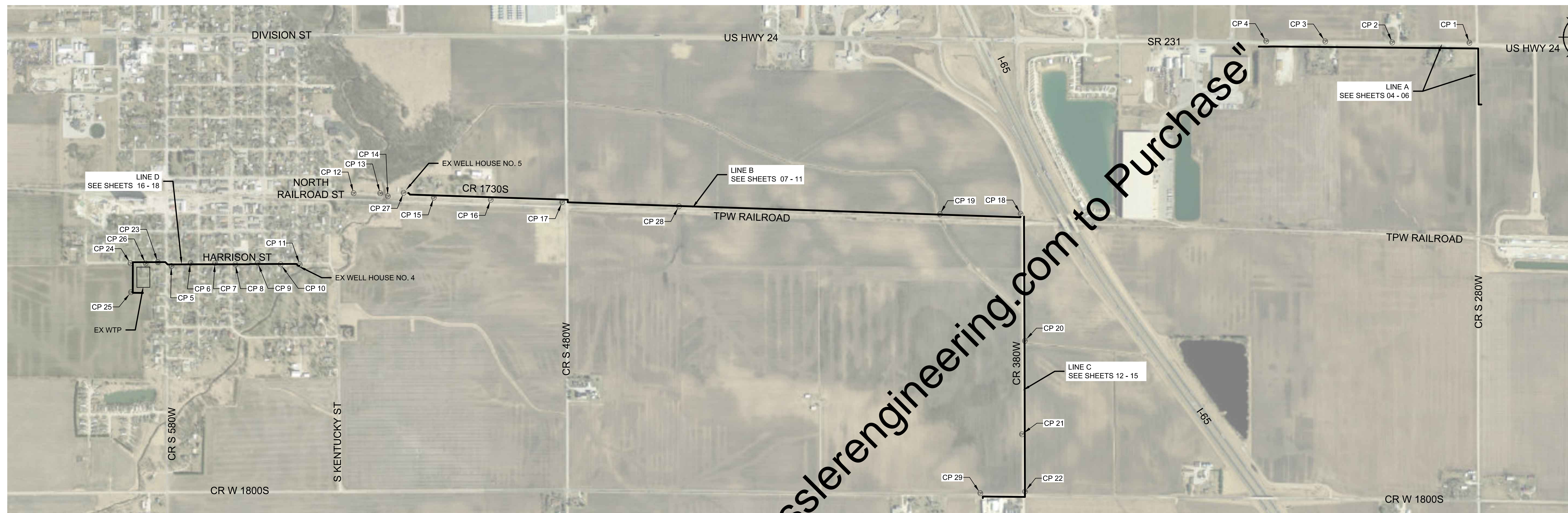


JONATHAN E. BORGERS
REGISTERED ENGINEER
STATE OF INDIANA
NO. 10101227



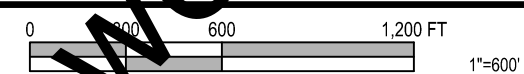
JONATHAN E. BORGERS
REGISTERED ENGINEER STATE OF INDIANA NO. 10101227

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2013 IMAGERY FROM INDIANA STATE MAP.

LOCATION AND SCOPE OF WORK PLAN



CONTROL POINTS				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP 1	2009623.93	2948411.20	731.5	5/8" REBAR
CP 2	2009628.77	2947513.74	735.1	5/8" REBAR
CP 3	2009640.87	2946734.02	735.9	5/8" REBAR
CP 4	2009641.37	2946046.99	735.2	5/8" REBAR
CP 5	2007028.15	2933313.87	736.6	MAG NAIL
CP 6	2007063.13	2933536.06	735.4	MAG NAIL
CP 7	2007062.65	2933820.64	733.5	MAG NAIL
CP 8	2007046.91	2934057.51	731.5	MAG NAIL
CP 9	2007063.54	2934317.51	729.9	MAG NAIL
CP 10	2007046.63	2934583.72	727.8	MAG NAIL
CP 11	2007045.68	2934806.55	723.4	MAG NAIL
CP 12	2007874.67	2935432.74	721.3	5/8" REBAR
CP 13	2007874.76	2935741.54	723.6	5/8" REBAR
CP 14	2007839.45	2935831.42	724.7	5/8" REBAR
CP 15	2007823.47	2936365.77	731.4	5/8" REBAR
CP 16	2007798.10	2937028.22	733.6	5/8" REBAR
CP 17	2007772.03	2937859.63	732.2	5/8" REBAR
CP 18	2007634.87	2943191.70	733.5	5/8" REBAR
CP 19	2007629.80	2942253.05	730.4	5/8" REBAR
CP 20	2006156.09	2943240.39	731.2	5/8" REBAR

CONTROL POINTS				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP 21	2005070.67	2943206.80	738.9	5/8" REBAR
CP 22	2004403.92	2943240.79	739.1	5/8" REBAR
CP 23	2007073.32	2933156.48	736.7	MAG NAIL
CP 24	2007059.69	2932836.88	735.5	MAG NAIL
CP 25	2006723.33	2932844.04	734.0	5/8" REBAR
CP 26	2007058.81	2933012.71	736.0	MAG NAIL
CP 27	2007878.70	2936014.44	725.2	5/8" REBAR
CP 28	2007722.35	2939217.46	732.3	5/8" REBAR
CP 29	2004384.02	2942722.23	742.4	5/8" REBAR

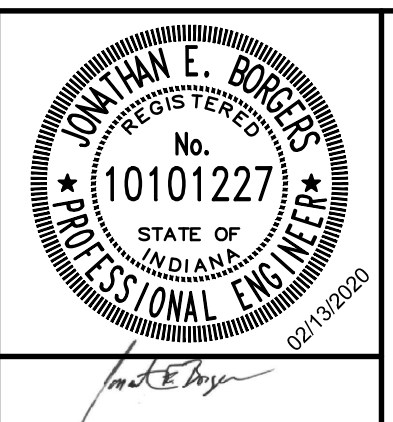
HORIZONTAL AND VERTICAL CONTROL INFORMATION

- NOTES:
1. A FIELD SURVEY WAS PERFORMED IN JULY 2019.
 2. COORDINATES (INDIANA STATE PLANE, WEST ZONE, NAD 83) AND ELEVATIONS (NAVD 88) ARE BASED ON INCORS.
 3. UNITS ARE U.S. SURVEY FEET.
 4. CONTROL POINTS WERE SET USING GPS.

DRAWING INDEX	
SHEET NO.	DESCRIPTION
GENERAL	
01	TITLE SHEET
02	DRAWING INDEX, AND LOCATION AND SCOPE OF WORK PLAN
03	PLAN NOTES, UTILITIES, ABBREVIATIONS AND LEGEND
PLAN SHEETS	
04 - 06	WATER MAIN PLAN - LINE A - US 24
07 - 11	WATER MAIN PLAN - LINE B - CR 1730S
12 - 14	WATER MAIN PLAN - LINE C - CR 380W
15	WATER MAIN PLAN - LINE C - W 1800 S
16	WATER MAIN PLAN - LINE D - WTP
17 - 18	WATER MAIN PLAN - LINE D - HARRISON STREET
DETAILS	
19 - 20	MISCELLANEOUS DETAILS
21	RAILROAD CROSSING DETAILS
22	MAINTENANCE OF TRAFFIC PLAN AND DETAILS
23 - 24	EROSION CONTROL DETAILS

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	CHECKED BY JEB				
	APPROVED BY JEB				
	ISSUE DATE FEBRUARY 2020				
	PROJECT NUMBER 218619-04-001				



REMINGTON / WHITE COUNTY WATER MAIN EXTENSION - PHASE I	
TOWN OF REMINGTON, INDIANA	
DRAWING INDEX, AND LOCATION AND SCOPE OF WORK PLAN	

SHEET NO.	02
TOTAL SHEETS	24

EXISTING FEATURES LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BENCH MARK		CISTERN		EASEMENT - CONSTRUCTION/PERMANENT
	TEMPORARY BENCH MARK		ELECTRIC METER		LOT BOUNDARY
	SOIL BORING LOCATION		AIR CONDITIONING UNIT		PROPERTY BOUNDARY
	SECTION CORNER		UTILITY RISER (DEFINED BY UTILITY)		RIGHT-OF-WAY - TEMPORARY/PERMANENT
	DRILL HOLE IN CONCRETE/HARRISON MONUMENT		UTILITY PEDESTAL (DEFINED BY UTILITY)		SECTION BOUNDARY
	CONTROL POINT (SET/FOUND)		UTILITY MARKER (DEFINED BY UTILITY)		WETLANDS
	MAGNETIC NAIL (SET/FOUND)		JOINT POWER/TELEPHONE POLE		CONTOUR - INTERMEDIATE ELEVATION
	BOAT SPIKE (SET/FOUND)		LIGHT POLE		CONTOUR - INDEX ELEVATION
	PK NAIL (SET/FOUND)		LIGHT ON POWER POLE		OVERHEAD ELECTRIC
	RAILROAD SPIKE (SET/FOUND)		LIGHT ON JOINT POLE		OVERHEAD CABLE TV
	R/W MARKER - CONCRETE/GRANITE/STONE		POWER POLE		OVERHEAD TELEPHONE
	IRON PIPE/IRON PIN/REBAR (WITH DIAMETER)		TELEPHONE POLE		UNDERGROUND CABLE TV
	BRASS PLUG		LAMP POST		UNDERGROUND ELECTRIC
	CABLE TV MANHOLE		GUY ANCHOR		UNDERGROUND FIBER OPTIC
	ELECTRIC MANHOLE		GUY POLE OR STUB		GAS MAIN
	GAS MANHOLE		CONTROLLER CABINET		DIGESTER GAS
	OTHER MANHOLE		FLAG POLE		PETROLEUM MAIN
	TELEPHONE MANHOLE		POST		UNDERGROUND TELEPHONE
	TELEPHONE VAULT		GROUND LIGHT		WATER MAIN
	TRAFFIC MANHOLE		MAILBOX		WATER SERVICE
	TRAFFIC HANDHOLE		DOUBLE/MULTIPLE MAILBOX		FORCEMAIN
	WATER MANHOLE		MAST ARM POLE		GRAVITY SEWER PIPE
	AIR RELEASE VALVE		TRAFFIC SIGNAL STRAIN POLE		PLANT CHLORINE PIPE
	SANITARY SEWER MANHOLE		SIGNAL LOOP DETECTOR BOX		TOP OF BANK/TOE OF SLOPE
	DRAINAGE/STORM SEWER MANHOLE		SIGNAL LOOP DETECTOR LOOP		CENTERLINE OF DITCH/SWALE/STREAM
	SANITARY SEWER CLEANOUT		SIGN - SINGLE POST		FENCE - FIELD
	SEPTIC TANK		SIGN - DOUBLE POST		FENCE - METAL
	VALVE VAULT		SIGN - RAILROAD SIGNAL		FENCE - WOOD
	BEEHIVE INLET		SIGN - RAILROAD CROSSING		GUARDRAIL
	CURB INLET		BUSH		STREAM
	DROP INLET		STUMP		TREE/BRUSH LINE
	CATCH BASIN		TREE - CONIFEROUS		
	DOWNSPOUT		TREE - DECIDUOUS		
	GAS METER		ROCK OUTCROP		
	GAS VALVE		SATELLITE		
	GAS SERVICE VALVE		SPRINKLER CONTROL VALVE		
	PETROLEUM VALVE		WATER METER		
	PETROLEUM SHUTOFF VALVE		WATER VALVE		
	GAS STATION MONITORING WELL		WATER SERVICE VALVE		
	GAS STATION FILL CAP		WATER WELL		
	NATURAL GAS WELL/STORAGE WELL		WET WELL		
	SPRINKLER HEAD		FIRE HYDRANT		
	YARD HYDRANT		PROCESS VALVE		

TABLE OF ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AC	ABESTOS CEMENT	IPS	IRON PIPE SIZE
AFF	ABOVE FINISHED FLOOR	ISPC	INDIANA STATE PLANE COORDINATE
ALUM	ALUMINUM	LB	POUND(S)
APP	APPARENT	LF	LINEAR FEET
APPROX	APPROXIMATE(LY)	LN	LANE
ASPH	ASPHALT	LS	LIFT STATION
ASSOC	ASSOCIATES	MA EX	MATCH EXISTING
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	MJ	MECHANICAL JOINT
AVE	AVENUE	MATL	MATERIAL
AVG	AVERAGE	MAX	MAXIMUM
BLDG	BUILDING	MH	MANHOLE
BLVD	BOULEVARD	MIN	MINIMUM
BM	BENCHMARK	MISC	MISCELLANEOUS
CO	CLEANOUT	N	NORTHING, NORTH
CI	CAST IRON	NGS	NATIONAL GEODETIC SURVEY
CL	CENTER LINE	NO.	NUMBER
CMA	COLD MIX ASPHALT	OC	ON CENTER
CMP	CORRUGATED METAL PIPE	OD	OUTSIDE DIAMETER
CMU	CONCRETE MASONRY UNIT	PC	POINT OF CURVE (BEGIN CURVE)
CONC	CONCRETE	POLY	POLYETHYLENE
CONT	CONTINUOUS	PI	POINT OF INTERSECTION
CNR	CORNER	POT	POINT ON TANGENT
CP	CONTROL POINT	PT	POINT OF TANGENT (END CURVE)
CPP	CORRUGATED PLASTIC PIPE	PSI	POUNDS PER SQUARE INCH
CR STN	CRUSHED STONE	PT	POINT
CYD	CUBIC YARD	PVC	POLYVINYL CHLORIDE
D	DEPTH	R	RADIUS
DI	DUCTILE IRON	ROW	RIGHT-OF-WAY
DI MJ	DUCTILE IRON MECHANICAL JOINT	RCP	REINFORCED CONCRETE PIPE
DBL	DOUBLE	R	ROAD
DIA	DIAMETER	S	SOUTH
DIP	DUCTILE IRON PIPE	SR	STATE ROUTE
DIPS	DUCTILE IRON PIPE SIZE	SST	STAINLESS STEEL
DR	DRIVE	SVA	SERVICE VALVE ASSEMBLY
E	EASTING, EAST	SB	SOIL BORING
EF	EACH FACE	SCHED	SCHEDULE
EW	EACH WAY	SDR	STANDARD DIMENSION RATIO
EA	EACH	SECT	SECTION
EJ	EAST JORDAN WORKS	SF	SQUARE FEET
EL	ELEVATION	SHT	SHEET
EX	EXISTING	SPECS	SPECIFICATION(S)
EXP	EXPANSION	SQ	SQUARE
FFE	FIRST FLOOR ELEVATION	SRF	STATE REVOLVING FUND
FM	FORCE MAIN	ST	STREET
FND	FOUND	STA	STATION
FT	FEET	SYD	SQUARE YARD
FTG	FOOTING	TBM	TEMPORARY BENCHMARK
GF	GALVANIZED	TC	TOP OF CASTING
GPS	GLOBAL POSITIONING SYSTEM	TYP	TYPICAL
HMA	HOT MIX ASPHALT	USGS	US GEOLOGICAL SURVEY
HDPE	HIGH DENSITY POLYETHYLENE	VERT	VERTICAL
HORIZ	HORIZONTAL	VLV	VALVE
ID	INSIDE DIAMETER	W	WIDTH, WEST
IE	INVERT ELEVATION	WSE	WATER SURFACE ELEVATION
INC	INCORPORATED	WTP	WATER TREATMENT PLANT
INDOT	INDIANA DEPARTMENT OF TRANSPORTATION	YR	YEAR
INSTR	INSTRUMENT		
INV	INVERT	T/WTR	TOP OF WATER PIPE ELEVATION
		B/WTR	BOTTOM OF WATER PIPE ELEVATION
		T/SWR	TOP OF SEWER PIPE ELEVATION
		B/SWR	BOTTOM OF SEWER PIPE ELEVATION

*NOTE: THIS TABLE IS A LISTING OF TYPICAL ABBREVIATIONS AND MAY NOT INCLUDE ALL ABBREVIATIONS FOUND WITHIN THIS PLAN SET. IF A QUESTION ARISES ON THE MEANING OF AN ABBREVIATION NOT LISTED IN THIS TABLE, PLEASE CONTACT THE ENGINEER FOR CLARIFICATION.

GENERAL NOTES:

- NOTIFY THE ENGINEER IF ANY CONFLICTING INFORMATION BECOMES APPARENT IN THE CONTRACT DOCUMENTS AS SOON AS POSSIBLE AND PRIOR TO THE COMMENCEMENT OF ANY WORK IN THE VICINITY OF OR RELATIVE TO THE APPARENT CONFLICT SO THAT CLARIFICATION MAY OCCUR PRIOR TO CONSTRUCTION.
- ANY ALTERATIONS TO THESE DRAWINGS NOT AUTHORIZED BY WESSLER ENGINEERING AND NOT IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS AND RECORDS ON FILE AT WESSLER ENGINEERING SHALL RELIEVE WESSLER ENGINEERING OF ANY RESPONSIBILITY FOR THE ACCURACY OF THE DRAWINGS.
- USE CAUTION DURING THE EXECUTION OF WORK TO PREVENT DAMAGE TO STATE, COUNTY, MUNICIPAL, AND PRIVATE PROPERTY. REPAIR ALL DAMAGES AS A RESULT OF OPERATIONS, INCLUDING DAMAGE TO DRAINAGE STRUCTURES, FIELD TILE, PUBLIC/PRIVATE ROADS, AND LANDSCAPING (INCLUDING FENCING). REPAIR AND REPLACE DAMAGED ITEMS AT NO ADDITIONAL COST TO THE OWNER. PERFORM ALL REPAIR AND REPLACEMENT WORK TO THE SATISFACTION OF THE PERMITTING AGENCY, THE OWNER AND THE ENGINEER.
- TAKE CARE TO AVOID DAMAGE TO PAVED AREAS WHICH ARE NOT SPECIFICALLY CALLED OUT FOR REPAIR OR REPLACEMENT. REPAIR OR REPLACE ALL SUCH PAVEMENTS WHICH ARE DAMAGED BY CONSTRUCTION ACTIVITIES AND CONSTRUCTION TRAFFIC AT NO ADDITIONAL COST TO THE OWNER.
- OBTAIN ALL TEMPORARY EASEMENTS REQUIRED FOR THE CONSTRUCTION OF THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.
- COMPLY WITH ALL APPLICABLE PERMITS AND REGULATIONS. APPLICABLE PERMITS ISSUED TO THE OWNER WILL BE MADE AVAILABLE TO THE CONTRACTOR. CONTACT ALL APPLICABLE PERMITTING AGENCIES WITHIN THE PERIOD SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCTION.
- ALL PRIVATE WELL LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. FIELD VERIFY AND DETERMINE EXACT LOCATIONS OF ALL PRIVATE WELLS IN THE PROJECT AREA.
- ALL EXISTING AND NEW UTILITY INFORMATION, INCLUDING BUT NOT LIMITED TO LOCATION, SIZE AND INVERT ELEVATION, IS SHOWN BASED UPON AVAILABLE INFORMATION. THE ENGINEER DOES NOT GUARANTEE OR ASSUME SUCH INFORMATION TO BE TRUE, ACCURATE, ALL INCLUSIVE OR EVEN APPROXIMATE. CONTACT THE INDIANA UNDERGROUND PLANT PROTECTION SERVICE (IUPPS) AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY. CONTACT NON-MEMBER UTILITIES DIRECTLY.
- DETERMINE WHICH UTILITIES MAY CONFLICT WITH WORK AND VERIFY THEIR LOCATION, SIZE AND ELEVATION PRIOR TO CONSTRUCTION AND DETERMINE IF THERE ARE ANY DISCREPANCIES OR CONFLICTS. IF ANY DISCREPANCIES OR CONFLICTS ARE DISCOVERED, NOTIFY THE ENGINEER AS SOON AS POSSIBLE.
- EXISTING UTILITY SERVICE LINES TO INDIVIDUAL CUSTOMERS MAY NOT BE SHOWN ON THE DRAWINGS. ASSUME THAT UNDERGROUND SERVICE LINES FOR ALL UTILITIES EXIST TO EACH PROPERTY ALONG THE ROUTE OF THE PLANNED IMPROVEMENTS.
- COORDINATE ALL WORK WITH THE RESPECTIVE UTILITIES. SCHEDULE WORK ACCORDINGLY, AND NOTIFY ALL UTILITIES A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY.
- COORDINATE PLANNED UTILITY SERVICE INTERRUPTIONS WITH THE RESPECTIVE UTILITIES AND THE UTILITIES' AFFECTED CUSTOMERS. SERVICE INTERRUPTIONS SHOULD NOT LAST MORE THAN FOUR (4) HOURS. GIVE WRITTEN NOTICE TO ALL AFFECTED UTILITY CUSTOMERS AND PROPERTY OWNERS AT LEAST TWENTY-FOUR (24) HOURS BUT NOT MORE THAN SEVENTY-TWO (72) HOURS PRIOR TO ANY PLANNED INTERRUPTION OF UTILITY SERVICE.
- USE CAUTION DURING THE EXECUTION OF WORK TO PREVENT DAMAGE TO EXISTING UTILITIES. REPAIR OR REPLACE ALL PUBLIC AND PRIVATE FACILITIES DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS. BRACE AND PROTECT ALL UTILITY POLES AND EXISTING STRUCTURES ADJACENT TO NEW EXCAVATIONS. UTILITY POLE BRACING SHALL BE AS DIRECTED BY THE GOVERNING UTILITY.
- MAINTAIN EXISTING STORMWATER DRAINAGE FOR THE ENTIRE DURATION OF THE PROJECT.
- DO NOT DISTURB EXISTING MANHOLES OR INLETS, UNLESS NOTED OTHERWISE.
- ALL EQUIPMENT, APPURTENANCES AND PIPING REMOVED AS PART OF THE DEMOLITION SHALL FIRST BE OFFERED TO THE OWNER FOR SALVAGE. DELIVER SALVAGED ITEMS SELECTED BY OWNER TO A LOCATION DESIGNATED BY THE OWNER OR ENGINEER. IN THE EVENT THE OWNER DOES NOT ELECT TO KEEP THE REMOVED ITEMS, REMOVE SUCH ITEMS FROM THE SITE AND DISPOSE OF AT A LOCATION APPROVED FOR SUCH DISPOSAL AT THE CONTRACTOR'S EXPENSE.
- COORDINATE STAGING AREA LOCATIONS WITH THE OWNER.
- ALL CONSTRUCTION TRAFFIC SHALL USE MAJOR ROADS. NO CONSTRUCTION TRAFFIC SHALL USE LOCAL STREETS FOR INDIRECT ACCESS.
- TO CONTROL DUST, REMOVE SOIL FROM STREETS USED BY CONSTRUCTION TRAFFIC DAILY. VACUUM AND WATER AS NECESSARY AND/OR AS DIRECTED BY THE OWNER.
- PLACE NEW ASPHALT PAVEMENT FLUSH WITH ADA RAMPS.
- A PORTION OF THE WORK SHOWN ON THESE DRAWINGS IS OCCURRING ON A PLANT SITE IN WHICH BURIED ELECTRICAL CONDUIT AND SMALL PIPING MAY EXIST THROUGHOUT AND IN THE VICINITY OF THE PROJECT AND MAY NOT BE SHOWN ON THESE DRAWINGS. EXPECT TO ENCOUNTER BURIED ELECTRICAL AND COMMUNICATIONS WIRING, WITH OR WITHOUT CONDUIT, SMALL PIPING, AND FIELD TILE WHILE DIGGING ON THIS SITE.
- NORTHING AND EASTING INFORMATION IS GIVEN AT CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
- PLACE NO. 8 CRUSHED AGGREGATE BETWEEN PIPES AT ALL PIPE CROSSINGS TO PREVENT PIPE SETTLEMENT UNLESS SHOWN OTHERWISE.
- VERIFY EXISTING SEWER INVERTS AND LOCATIONS PRIOR TO CONSTRUCTION AND DETERMINE IF THERE ARE ANY DISCREPANCIES OR CONFLICTS.
- RESET ALL MAILBOXES AND SIGNS DISTURBED BY CONSTRUCTION ACTIVITIES.
- IF REQUIRED, PLACE TEMPORARY OVERNIGHT AGGREGATE WEDGES AT DRIVEWAYS TO ALLOW PROPERTY OWNER ACCESS.
- UNLESS NOTED OTHERWISE ON THE DRAWINGS, INSTALLATION METHOD OF WATER MAIN IS LEFT TO THE DISCRETION OF THE CONTRACTOR.
- AS NOTED IN SPECIFICATION SECTION 01990 PAY ITEMS, ALL SURFACE RESTORATION INCLUDING PAVEMENT REPAIR, TOP SOIL, SEEDING, ETC ASSOCIATED WITH THE INSTALLATION OF THE WATER MAIN, REGARDLESS OF INSTALLATION METHOD OR ANY OTHER PORTION OF THE WORK, IS CONSIDERED INCIDENTAL TO THE PROJECT AND WILL NOT BE PAID AS A SEPARATE PAY ITEM.
- BORE PIT LOCATIONS FOR TRENCHLESS EXCAVATION INSTALLATION METHOD ARE NOT SHOWN ON THE DRAWINGS. PROVIDE ENGINEER WITH PLANNED PIT LOCATION AND SIZES FOR APPROVAL PRIOR TO PROCEEDING WITH EXCAVATION.
- AT ALL LOCATIONS WHERE PIPE MATERIAL TRANSITIONS TO HDPE, INSTALL HDPE PIPE TRANSITION AS SHOWN IN DETAIL ON SHEET 20.
- ALL PIPE SIZES SHOWN ON PLANS ARE BASED ON PVC PIPE MATERIAL. IF HDPE PIPE IS USED, A LARGER DIAMETER IS REQUIRED AS FOLLOWS:
12" PVC PIPE - USE 14" HDPE;
10" PVC PIPE - USE 12" HDPE;
8" PVC PIPE - USE 8" HDPE;
4" PVC PIPE - USE 6" HDPE.
INSTALL ANY ADDITION FITTING REQUIRED FOR SIZE AND MATERIAL TRANSITION AT NO ADDITIONAL COST.

UTILITY CONTACTS

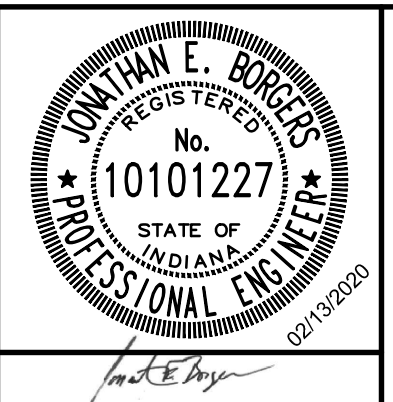
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WATER 219-208-0483 ATTN: MARK JONES	TELEPHONE EMBARQ 812-376-2887 ATTN: TROY BISHOP	CABLE LEVEL 3 COMMUNICATIONS 877-453-8353
SEWER 219-712-2927 ATTN: RYAN BYRD	ELECTRIC NIPSCO 800-521-2232	



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*NOTE: THIS TABLE IS A LISTING OF TYPICAL EXISTING SYMBOLS AND MAY NOT INCLUDE ALL EXISTING SYMBOLS FOUND WITHIN THIS PLAN SET. ALL PROPOSED ITEMS WILL BE CALLED OUT ON THEIR PLAN SHEETS. IF A QUESTION ARISES ON THE MEANING OF ANY SYMBOL NOT LISTED IN THIS TABLE, PLEASE CONTACT THE ENGINEER FOR CLARIFICATION. THE SYMBOLS ARE NOT TO SCALE.

SCALE VERIFICATION BAR IS ONE INCH LONG ON ORIGINAL DRAWING	DRAWN BY MJE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
CHECKED BY JEB	APPROVED BY JEB				
ISSUE DATE FEBRUARY 2020					
PROJECT NUMBER 218619-04-001					



REMINGTON / WHITE COUNTY WATER MAIN EXTENSION - PHASE I

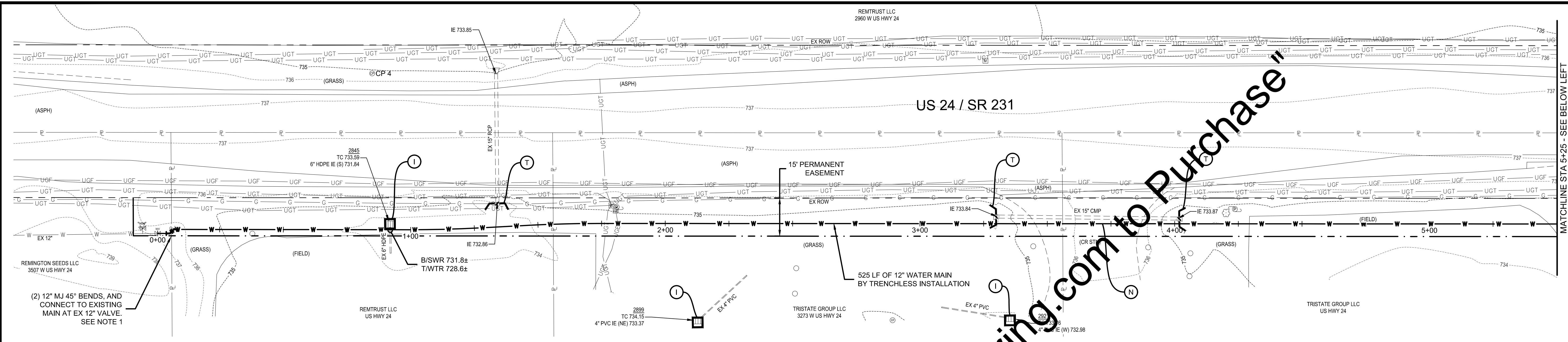
TOWN OF REMINGTON, INDIANA

PLAN NOTES, UTILITIES, ABBREVIATIONS AND LEGEND

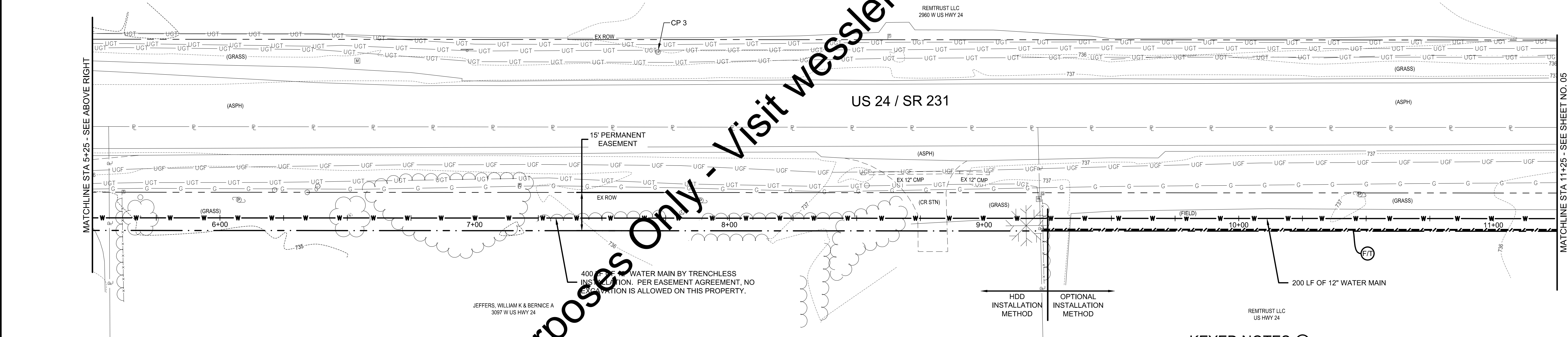
SHEET NO.	03
TOTAL SHEETS	24

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PLAN - LINE A
0 10 20 40 FT 1"=20'

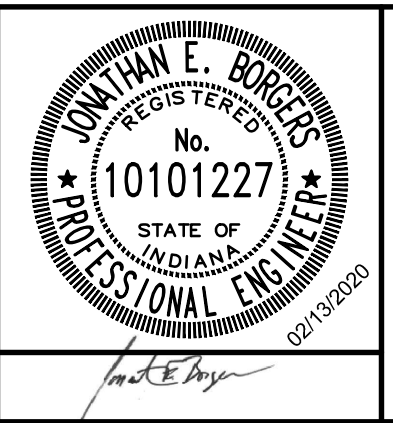


PLAN - LINE A
0 10 20 40 FT 1"=20'

KEYED NOTES

- D ASPHALT ROADWAY REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
 - D₁ ASPHALT DRIVE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
 - N CRUSHED STONE SURFACE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
 - I INLET PROTECTION
 - E EROSION CONTROL BLANKET WITH SEED
 - F/T SILT FENCE / FILTER TUBE
 - T FIBER FILTRATION TUBE OUTLET PROTECTION
- NOTES:**
1. EXISTING 12" GATE VALVE MAY HAVE CONCRETE THRUST BLOCKING ON DOWNSTREAM END. REMOVE AS NECESSARY FOR CONNECTION OF NEW MAIN.

SCALE VERIFICATION	DRAWN BY	MR	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	MR				
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	ISSUE DATE					
	FEBRUARY 2020					
	PROJECT NUMBER					
	218619-04-001					



REMINGTON / WHITE COUNTY WATER MAIN EXTENSION - PHASE I

TOWN OF REMINGTON, INDIANA

WATER MAIN PLAN
LINE A - US 24

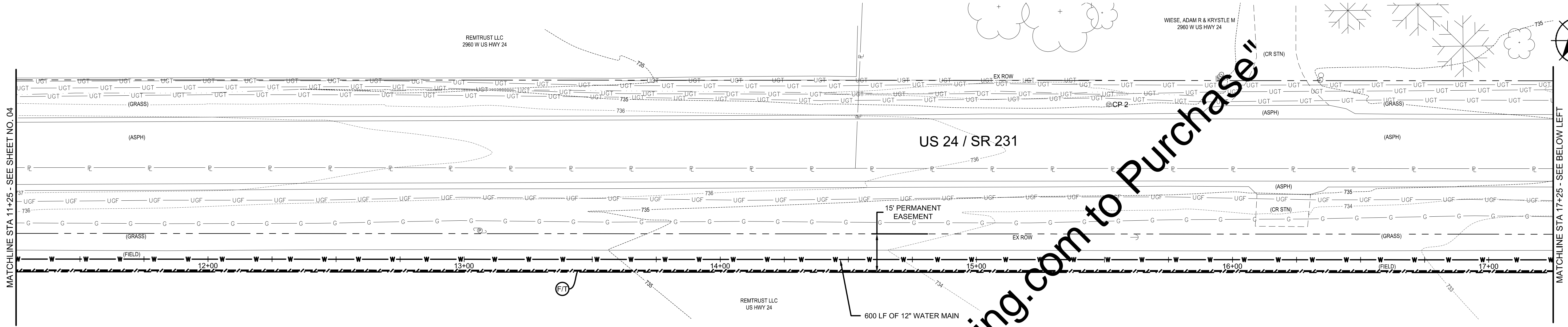
SHEET NO.

04

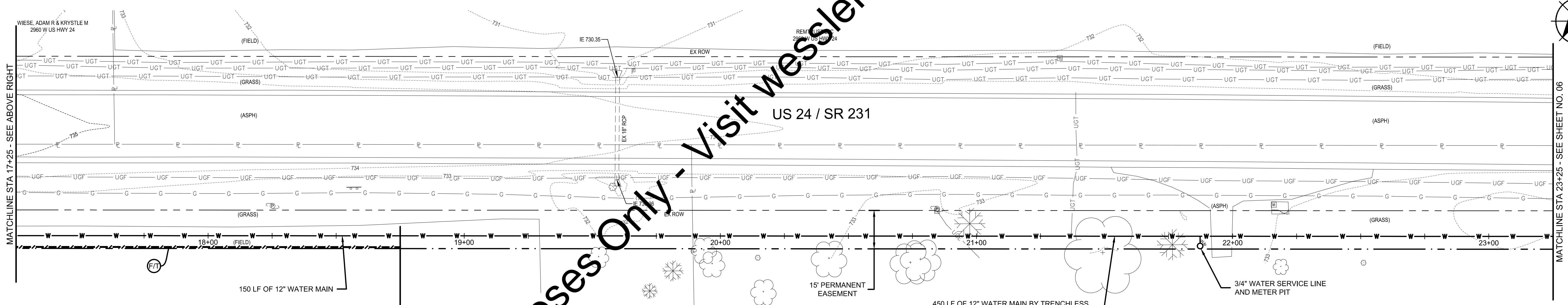
TOTAL SHEETS

24

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PLAN - LINE A
0 10 20 40 FT 1"=20'

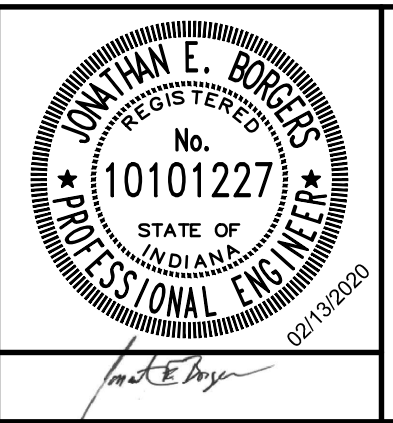


PLAN - LINE A
0 10 20 40 FT 1"=20'

- KEYED NOTES**
- D ASPHALT ROADWAY REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
 - D₁ ASPHALT DRIVE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
 - N CRUSHED STONE SURFACE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
- EROSION CONTROL**
- I INLET PROTECTION
 - E EROSION CONTROL BLANKET WITH SEED
 - F/T SILT FENCE / FILTER TUBE
 - T FIBER FILTRATION TUBE OUTLET PROTECTION

Drawing: J:\Remington\Projects\218619-04-001\DWG\Sheets\218619-04-001-PN-A3.dwg | Layout: A2 | Plotlet: 02/13/20 @ 09:43:39 | LastSavedBy: MicheleB

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	APPROVED	JEB				
	ISSUE DATE	FEBRUARY 2020				
	PROJECT NUMBER	218619-04-001				



REMINGTON / WHITE COUNTY WATER MAIN EXTENSION - PHASE I

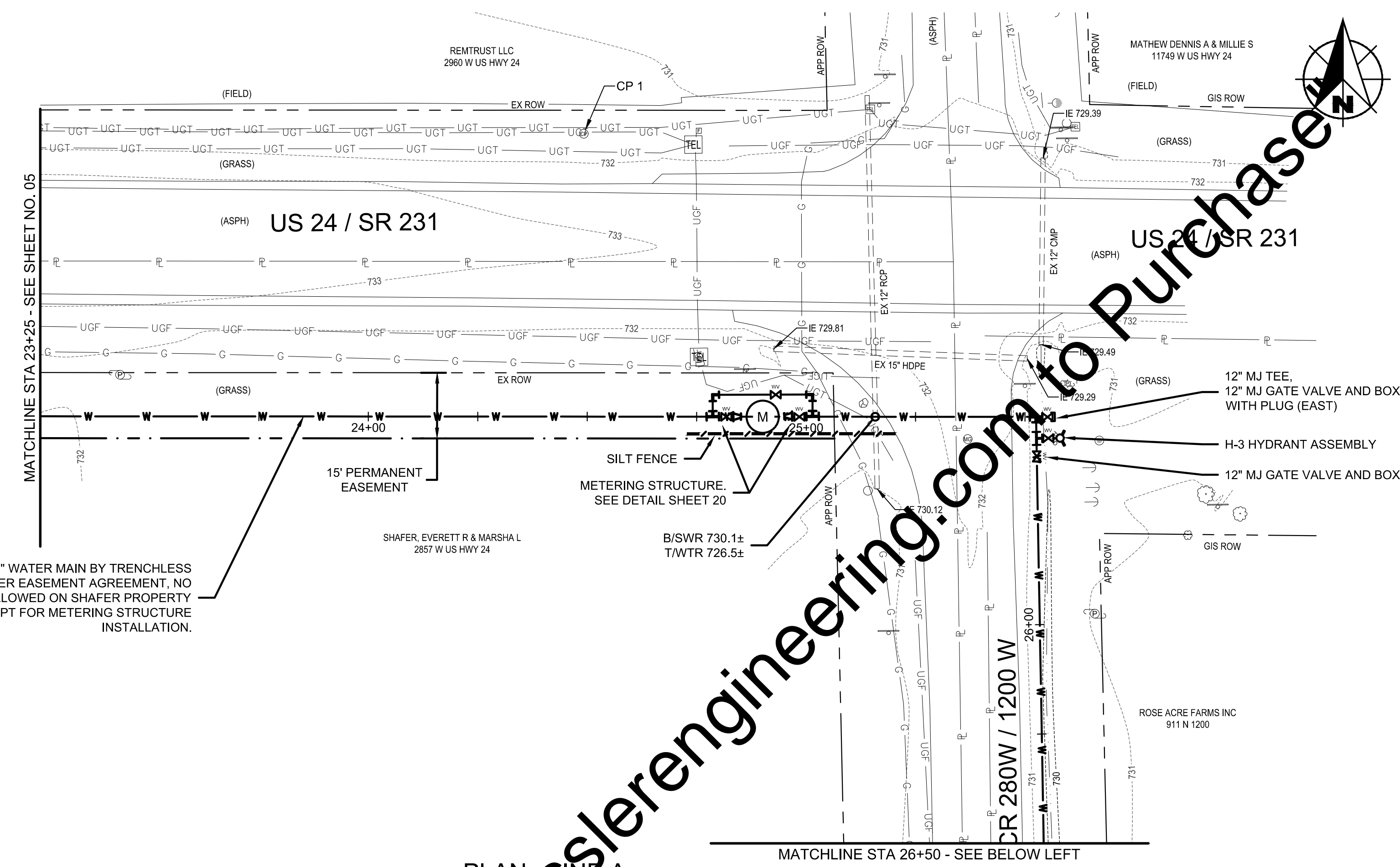
TOWN OF REMINGTON, INDIANA

WATER MAIN PLAN
LINE A - US 24

SHEET NO.
05

TOTAL SHEETS
24

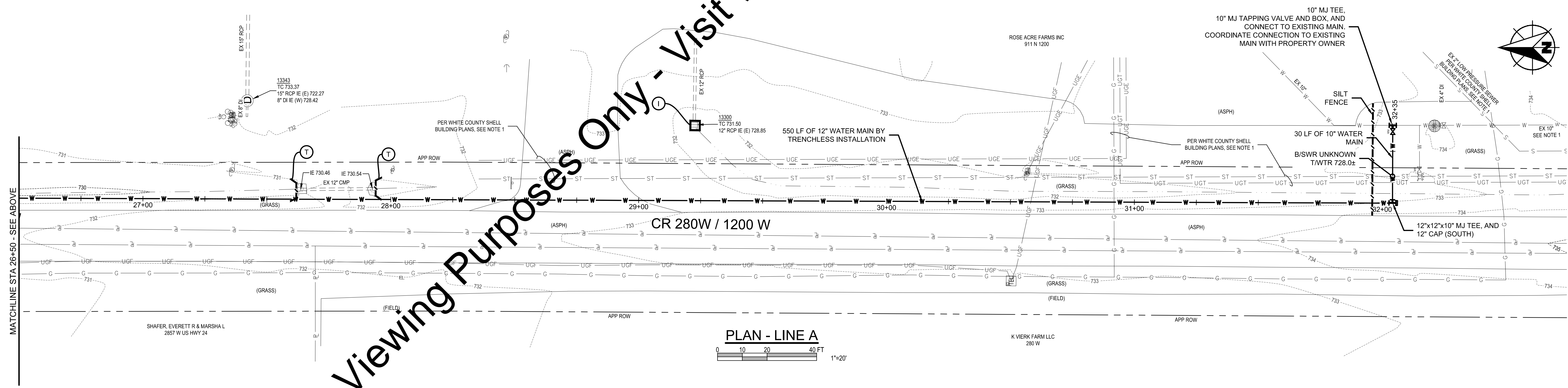
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PLAN - LINE A
0 10 20 40 FT
1"=20'

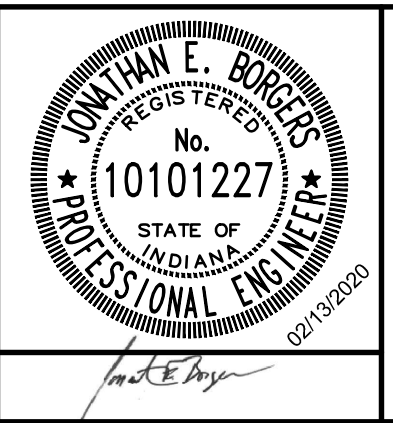
- KEYED NOTES**
- D ASPHALT ROADWAY REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
 - D1 ASPHALT DRIVE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
 - N CRUSHED STONE SURFACE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
- EROSION CONTROL**
- I INLET PROTECTION
 - E EROSION CONTROL BLANKET WITH SEED
 - F/T SILT FENCE / FILTER TUBE
 - T FIBER FILTRATION TUBE OUTLET PROTECTION

- NOTES:**
- LOCATION OF EXISTING 10" WATER MAIN, STORM SEWERS, AND OTHER UNDERGROUND UTILITIES RELATED TO THE MID-AMERICA COMMERCE PARK DEVELOPMENT SHOWN BASED ON SURVEY OF FOUND SURFACE ELEMENTS (HYDRANT, VALVES, INLETS, ETC.) AND INFORMATION PROVIDED BY DESIGN ENGINEER OF THE WHITE COUNTY SHELL BUILDING LOCATED ON THE ADJACENT PROPERTY. VERIFY LOCATION, DEPTH, AND PIPE MATERIAL PRIOR TO CROSSING OR CONNECTING TO ALL UTILITIES.



PLAN - LINE A
0 10 20 40 FT
1"=20'

SCALE VERIFICATION	DRAWN BY	MR	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	LEP				
	APPROVED BY	JEB				
	ISSUE DATE	FEBRUARY 2020				
	PROJECT NUMBER	218619-04-001				



REMINGTON / WHITE COUNTY WATER MAIN EXTENSION - PHASE I

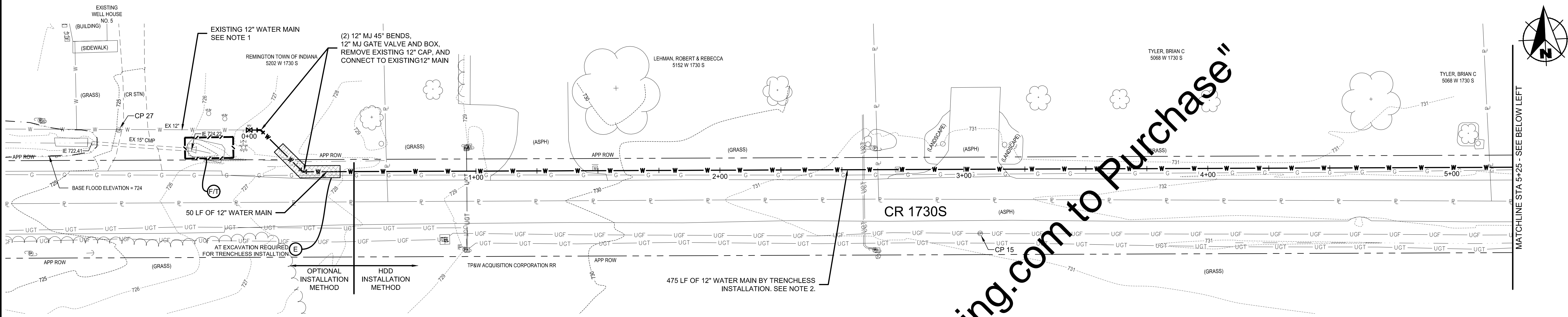
TOWN OF REMINGTON, INDIANA

WATER MAIN PLAN
LINE A - US 24

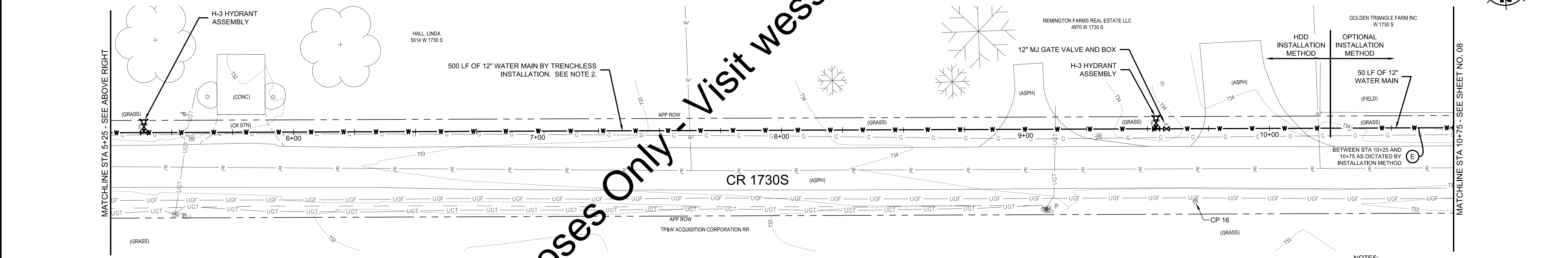
SHEET NO.
06

TOTAL SHEETS
24

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PLAN - LINE B
0 10 20 40 FT 1"=20'



PLAN - LINE B
0 10 20 40 FT 1"=20'

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KEYED NOTES

- D ASPHALT ROADWAY REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
 - D1 ASPHALT DRIVE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
 - N CRUSHED STONE SURFACE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
- EROSION CONTROL**
- I INLET PROTECTION
 - E EROSION CONTROL BLANKET WITH SEED
 - F/T SILT FENCE / FILTER TUBE
 - T FIBER FILTRATION TUBE OUTLET PROTECTION

- NOTES:**
- LOCATION OF EXISTING WATER MAIN SHOWN BASED ON OWNER UTILITY MAPS. VERIFY LOCATION, DEPTH, SIZE AND MATERIAL PRIOR TO MAKING CONNECTION.
 - PER EASEMENT AGREEMENT, NO EXCAVATION IS ALLOWED ON THE FOLLOWING PROPERTIES EXCEPT BORING PITS AND HYDRANT ASSEMBLIES:
 - LEHMAN, ROBERT & REBECCA (5152 W 1760 S)
 - TYLER, BRIAN C (5068 W 1730S)
 - HALL, LINDA (5014 W 1730S)
 - REMINGTON FARMS REAL ESTATE LLC (4970 W 1730S)
- COORDINATE BORING PIT LOCATIONS WITH ENGINEER PRIOR TO COMMENCING WORK.

SCALE VERIFICATION	DRAWN BY	MR. NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY				
	APPROVED BY				
	ISSUE DATE				
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	218619-04-001				

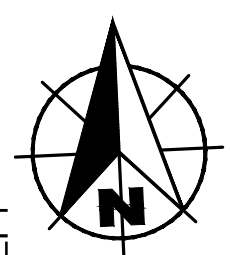


REMINGTON / WHITE COUNTY WATER MAIN EXTENSION - PHASE I

TOWN OF REMINGTON, INDIANA

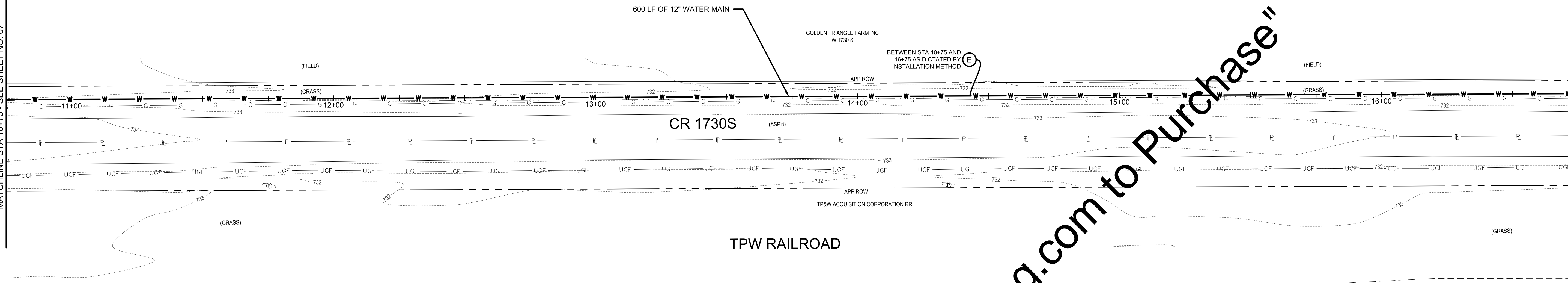
**WATER MAIN PLAN
LINE B - CR 1730S**

SHEET NO.	07
TOTAL SHEETS	24



MATCHLINE STA 10+75 - SEE SHEET NO. 07

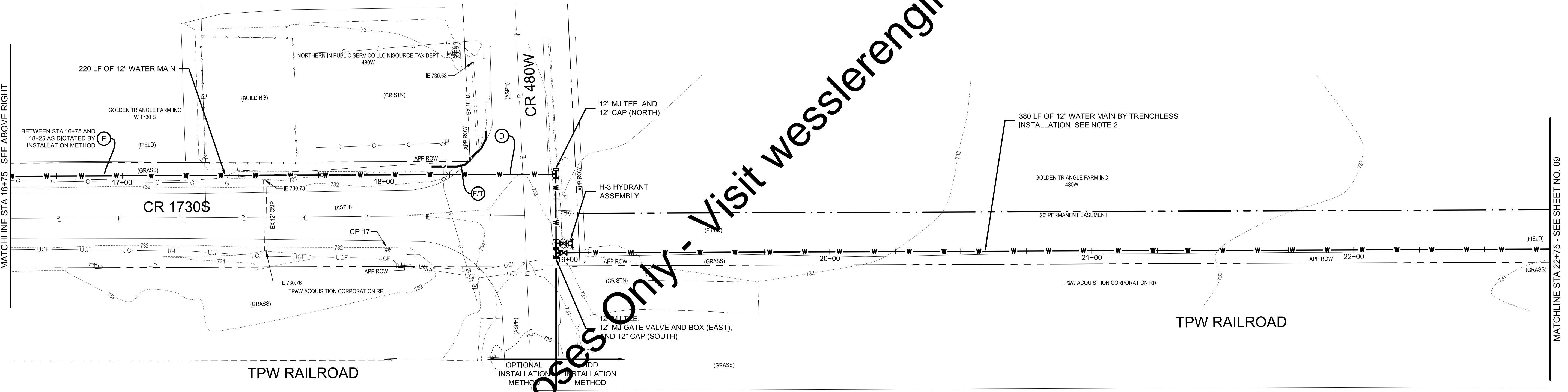
MATCHLINE STA 16+75 - SEE BELOW LEFT



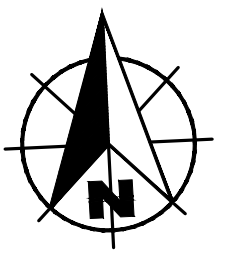
PLAN - LINE B
 0 10 20 40 FT
 1"=20'

MATCHLINE STA 16+75 - SEE ABOVE RIGHT

MATCHLINE STA 22+75 - SEE SHEET NO. 09



PLAN - LINE B
 0 10 20 40 FT
 1"=20'



KEYED NOTES ○

- D ASPHALT ROADWAY REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
- D1 ASPHALT DRIVE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
- N CRUSHED STONE SURFACE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD

EROSION CONTROL

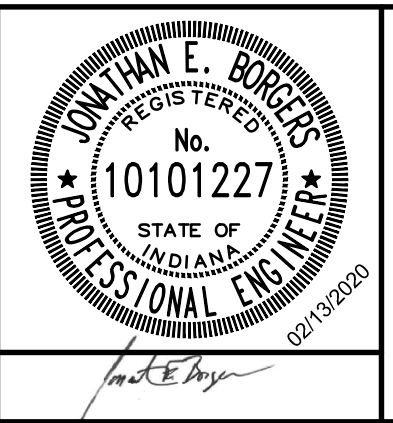
- I INLET PROTECTION
- E EROSION CONTROL BLANKET WITH SEED
- F/T SILT FENCE / FILTER TUBE
- T FIBER FILTRATION TUBE OUTLET PROTECTION

NOTES:

1. LOCATION OF EXISTING WATER MAIN SHOWN BASED ON OWNER UTILITY MAPS. VERIFY LOCATION, DEPTH, SIZE AND MATERIAL PRIOR TO MAKING CONNECTION.
 2. PER EASEMENT AGREEMENT, NO EXCAVATION IS ALLOWED ON THE FOLLOWING PROPERTIES EXCEPT BORING PITS:
 - GOLDEN TRIANGLE FARMS (480W)
- COORDINATE BORING PIT LOCATIONS WITH ENGINEER PRIOR TO COMMENCING WORK.

Drawing: J:\Remington\Projects\218619 Remington Park Water\CAD 04-001\DWG\Sheets\218619-PN-A8.dwg | Layout: B2 | Plotlet: 02/13/20 @ 09:44:00 | LastSavedBy: Michelle

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	APPROVED BY JEB				
	ISSUE DATE FEBRUARY 2020				
	PROJECT NUMBER 218619-04-001				

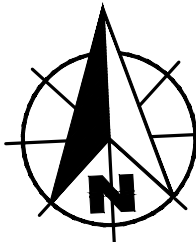


REMINGTON / WHITE COUNTY WATER MAIN EXTENSION - PHASE I

TOWN OF REMINGTON, INDIANA

**WATER MAIN PLAN
LINE B - CR 1730S**

SHEET NO. 08
TOTAL SHEETS 24



MATCHLINE STA 22+75 - SEE SHEET NO. 08

MATCHLINE STA 28+75 - SEE BELOW LEFT

MATCHLINE STA 28+75 - SEE ABOVE RIGHT

MATCHLINE STA 34+75 - SEE BELOW LEFT

MATCHLINE STA 34+75 - SEE ABOVE RIGHT

MATCHLINE STA 40+75 - SEE SHEET NO. 10

600 LF OF 12" WATER MAIN BY TRENCHLESS INSTALLATION. SEE NOTE 1.

PLAN - LINE B
0 10 20 40 FT
1"=20'

600 LF OF 12" WATER MAIN BY TRENCHLESS INSTALLATION

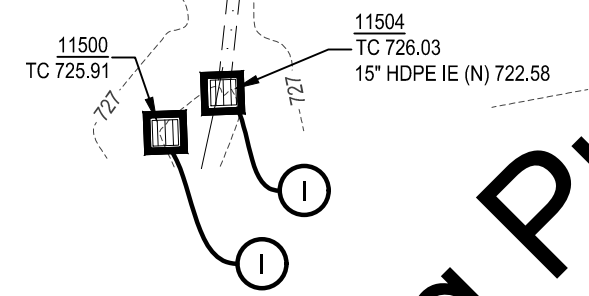
PLAN - LINE B
0 10 20 40 FT
1"=20'

600 LF OF 12" WATER MAIN BY TRENCHLESS INSTALLATION

PLAN - LINE B
0 10 20 40 FT
1"=20'

LOWER WATER MAIN AT SEWER CROSSING
SEE DETAIL SHT 19
B/SWR 722.5±
T/WTR 721.0±

H-3 HYDRANT ASSEMBLY
12" MJ GATE VALVE AND BOX



KEYED NOTES ○

- D ASPHALT ROADWAY REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
- D₁ ASPHALT DRIVE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
- N CRUSHED STONE SURFACE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD

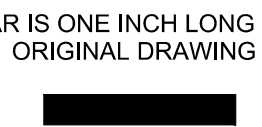
EROSION CONTROL

- I INLET PROTECTION
- E EROSION CONTROL BLANKET WITH SEED
- F/T SILT FENCE / FILTER TUBE
- T FIBER FILTRATION TUBE OUTLET PROTECTION

NOTES:

1. PER EASEMENT AGREEMENT, NO EXCAVATION IS ALLOWED ON THE FOLLOWING PROPERTIES EXCEPT BORING PITS:
 - GOLDEN TRIANGLE FARM INC (480W)
 - RICHEL ENTERPRISES
 COORDINATE BORING PIT LOCATIONS WITH ENGINEER PRIOR TO COMMENCING WORK.

Drawing: J:\Remington\Projects\218619 Remington Park Water\CAD 04-001\DWG\Sheets\218619-PN-A3.dwg | Layout: B3 | Plotlet: 02/13/20 @ 09:44:08 | LastSavedBy: MichelleE

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	ISSUE DATE FEBRUARY 2020				
	PROJECT NUMBER 218619-04-001				

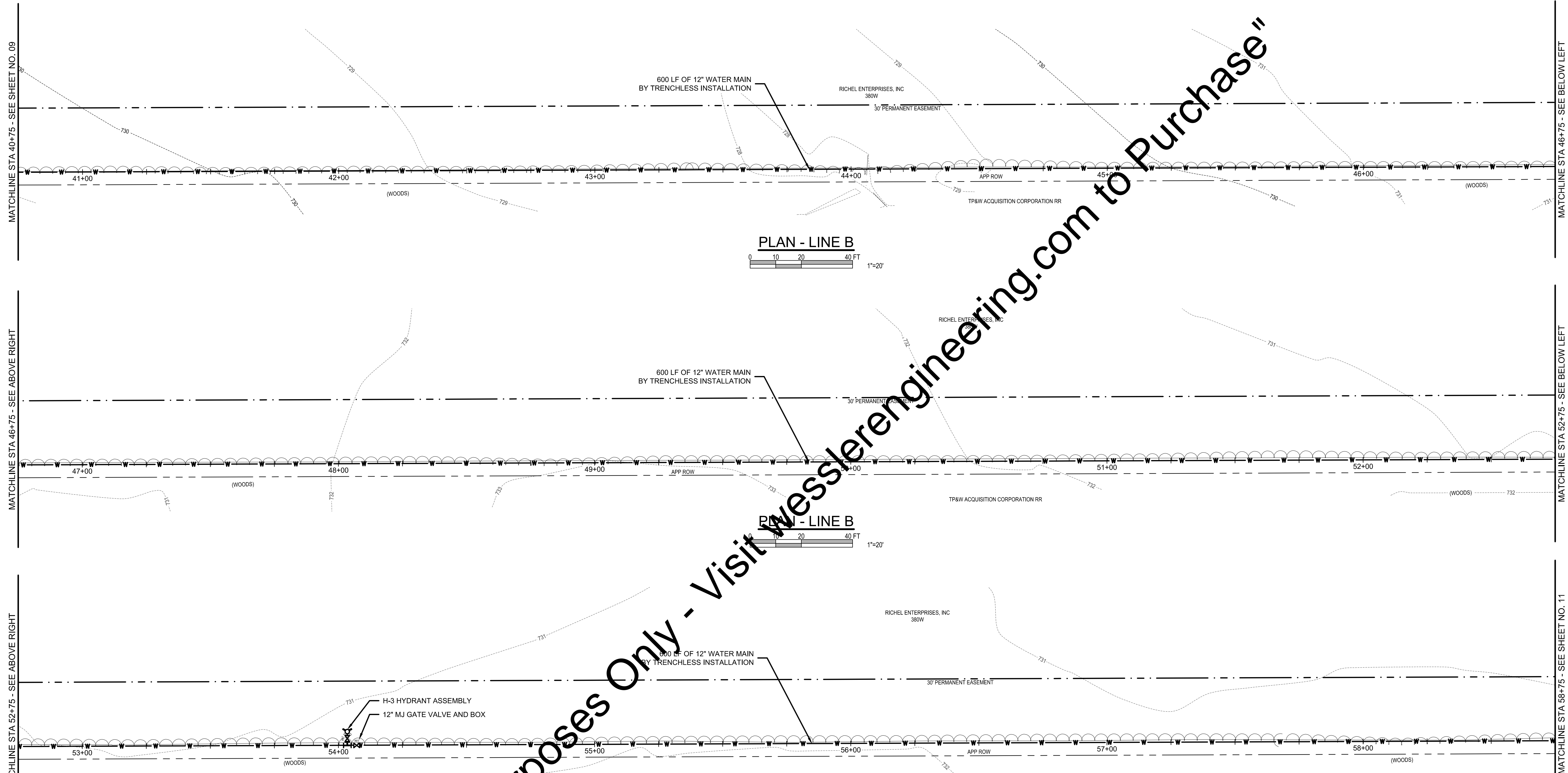
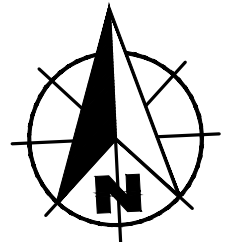


REMINGTON / WHITE COUNTY WATER MAIN EXTENSION - PHASE I

TOWN OF REMINGTON, INDIANA

**WATER MAIN PLAN
LINE B - CR 1730S**

SHEET NO. 09
TOTAL SHEETS 24



PLAN - LINE B
0 10 20 40 FT
1"=20'

PLAN - LINE B
0 10 20 40 FT
1"=20'

PLAN - LINE B
0 10 20 40 FT
1"=20'

KEYED NOTES ○

- D ASPHALT ROADWAY REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
- D₁ ASPHALT DRIVE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
- N CRUSHED STONE SURFACE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD

EROSION CONTROL

- I INLET PROTECTION
- E EROSION CONTROL BLANKET WITH SEED
- F/T SILT FENCE / FILTER TUBE
- T FIBER FILTRATION TUBE OUTLET PROTECTION

NOTES:

1. PER EASEMENT AGREEMENT, NO EXCAVATION IS ALLOWED ON THE FOLLOWING PROPERTIES EXCEPT BORING PITS:
 - RICHEL ENTERPRISES COORDINATE BORING PIT LOCATIONS WITH ENGINEER PRIOR TO COMMENCING WORK.

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	ISSUE DATE FEBRUARY 2020				
	PROJECT NUMBER 218619-04-001				

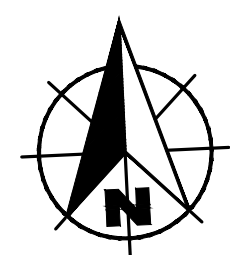


REMINGTON / WHITE COUNTY WATER MAIN EXTENSION - PHASE I

TOWN OF REMINGTON, INDIANA

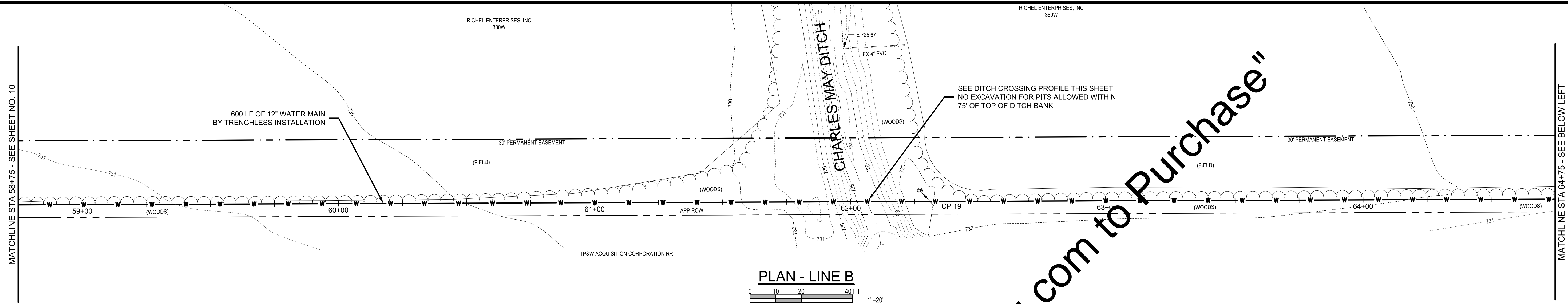
**WATER MAIN PLAN
LINE B - CR 1730S**

SHEET NO. 10
TOTAL SHEETS 24



MATCHLINE STA 58+75 - SEE SHEET NO. 10

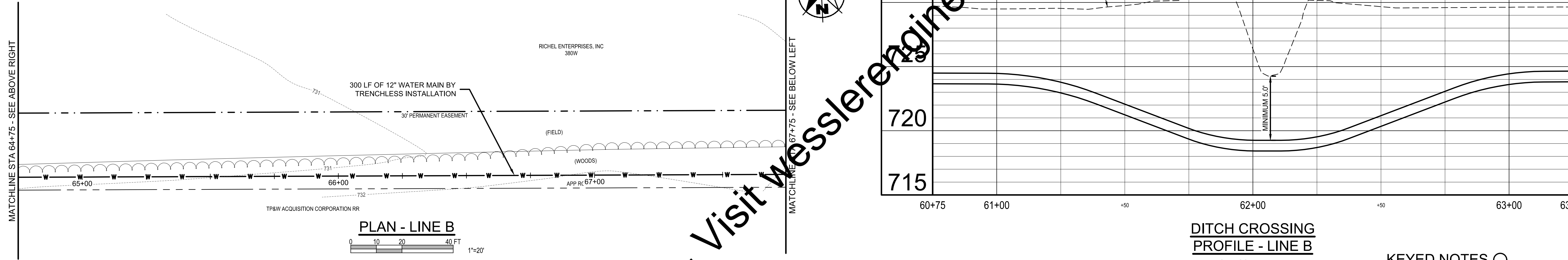
MATCHLINE STA 64+75 - SEE BELOW LEFT



PLAN - LINE B
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 1"=20'

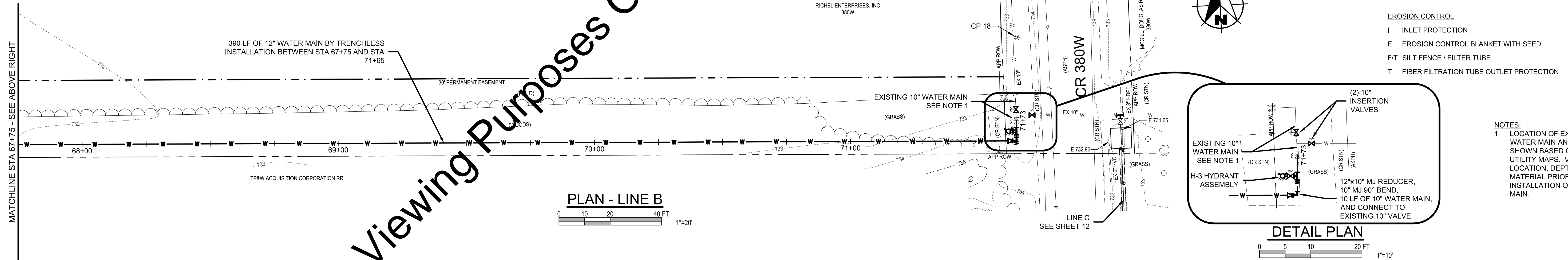
MATCHLINE STA 64+75 - SEE ABOVE RIGHT

MATCHLINE STA 67+75 - SEE BELOW LEFT

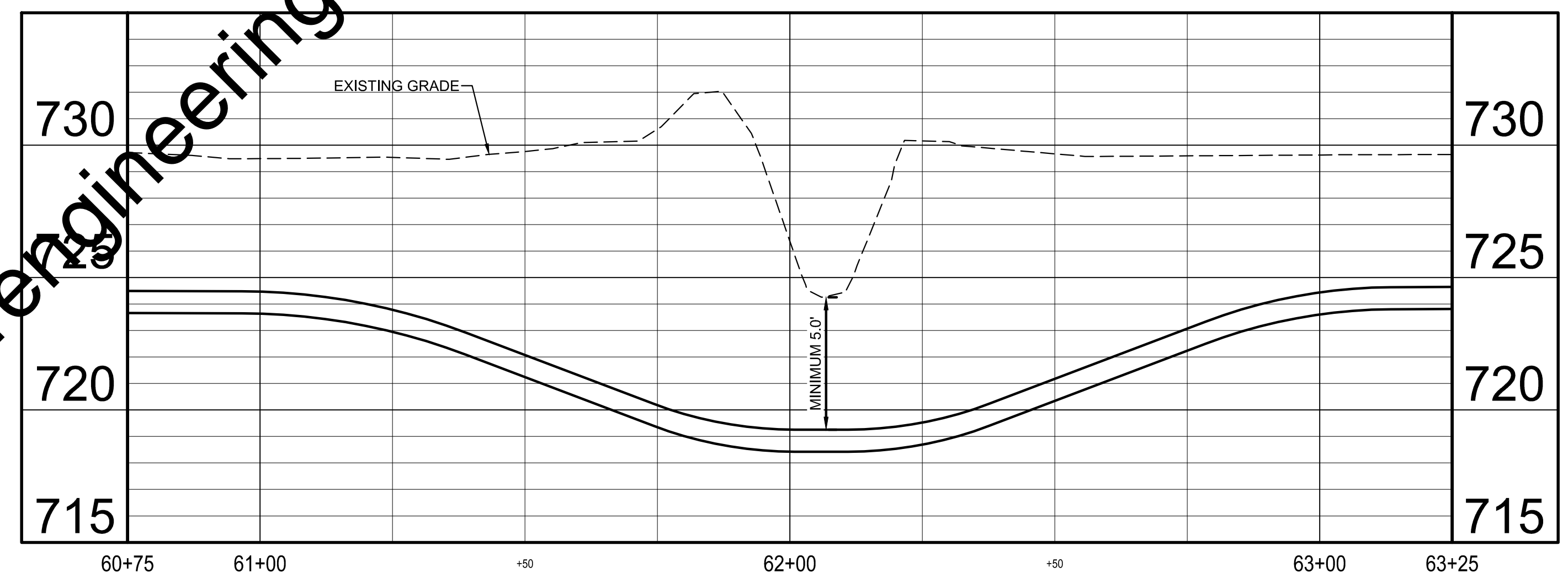


PLAN - LINE B
 0 10 20 40 FT
 1"=20'

MATCHLINE STA 67+75 - SEE ABOVE RIGHT



PLAN - LINE B
 0 10 20 40 FT
 1"=20'

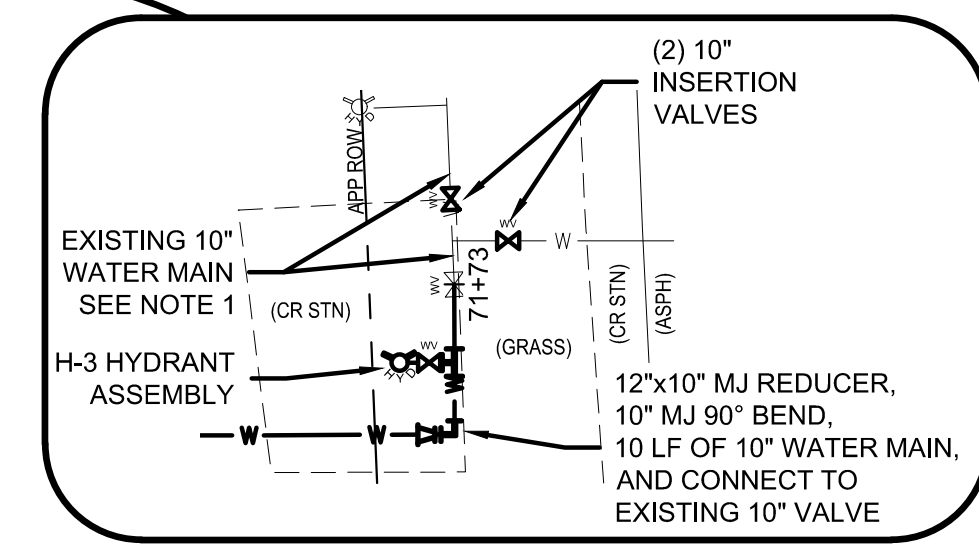


DITCH CROSSING
 PROFILE - LINE B
 HORIZ SCALE: 1" = 20'
 VERT SCALE: 1" = 4'

KEYED NOTES

- D ASPHALT ROADWAY REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
 - D₁ ASPHALT DRIVE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
 - N CRUSHED STONE SURFACE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
- EROSION CONTROL**
- I INLET PROTECTION
 - E EROSION CONTROL BLANKET WITH SEED
 - F/T SILT FENCE / FILTER TUBE
 - T FIBER FILTRATION TUBE OUTLET PROTECTION

NOTES:
 1. LOCATION OF EXISTING 10" WATER MAIN AND VALVE SHOWN BASED ON OWNER UTILITY MAPS. VERIFY LOCATION, DEPTH, AND PIPE MATERIAL PRIOR TO INSTALLATION OF NEW WATER MAIN.



DETAIL PLAN
 0 5 10 20 FT
 1"=10'

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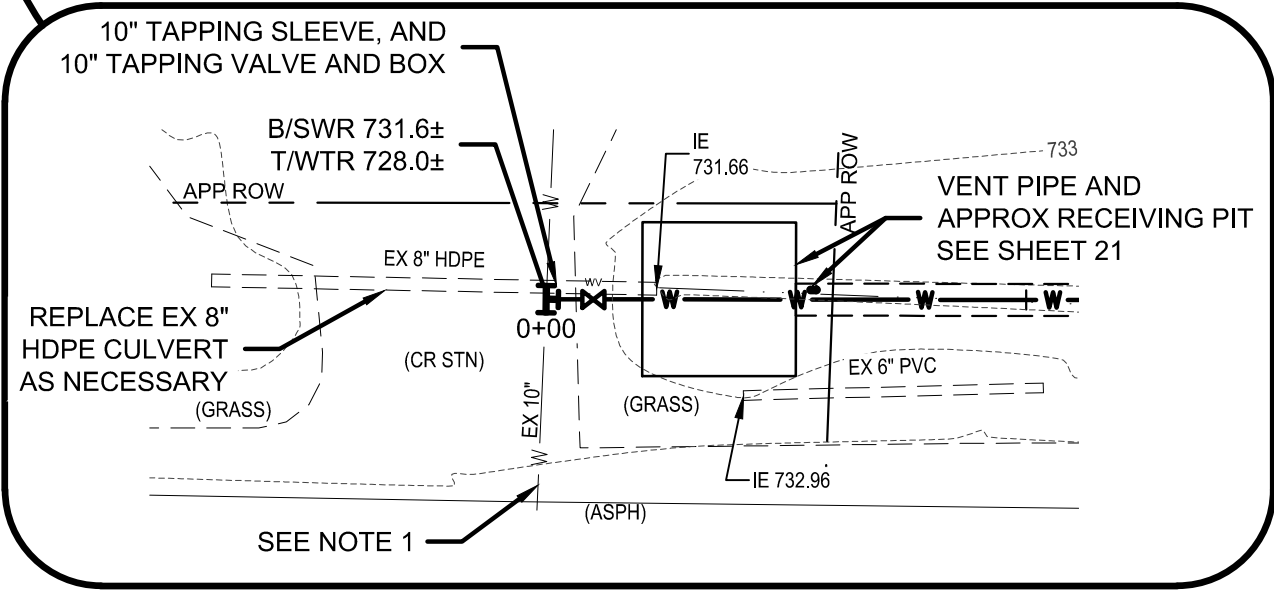
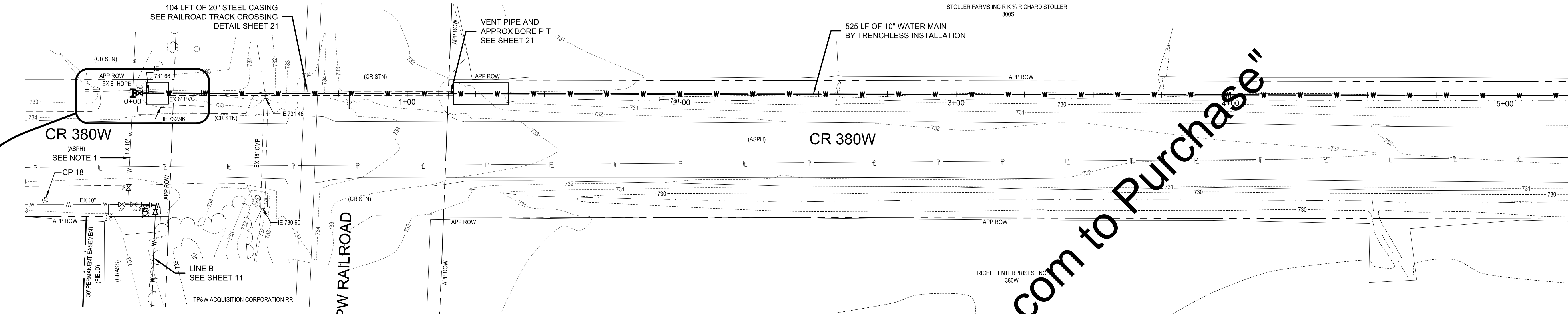
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BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	MR				
	APPROVED BY	JEB				
	ISSUE DATE	FEBRUARY 2020				
	PROJECT NUMBER	218619-04-001				



REMINGTON / WHITE COUNTY WATER MAIN EXTENSION - PHASE I
 TOWN OF REMINGTON, INDIANA
WATER MAIN PLAN
LINE B - CR 1730S

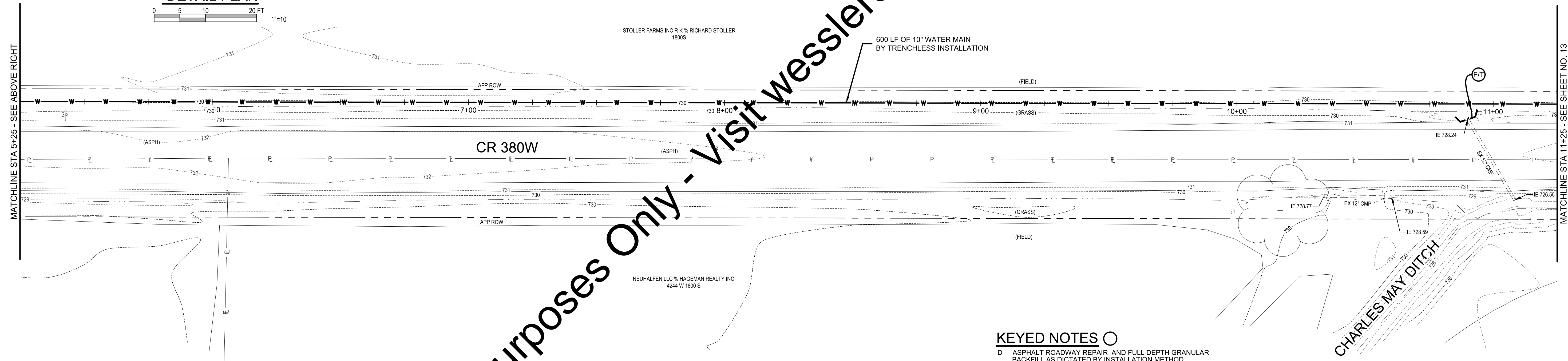
SHEET NO.
11
 TOTAL SHEETS
24

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DETAIL PLAN
0 5 10 20 FT
1"=10'

PLAN - LINE C
0 10 20 40 FT
1"=20'



PLAN - LINE C
0 10 20 40 FT
1"=20'

KEYED NOTES ○

- D ASPHALT ROADWAY REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
 - D₁ ASPHALT DRIVE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
 - N CRUSHED STONE SURFACE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
- EROSION CONTROL**
- I INLET PROTECTION
 - E EROSION CONTROL BLANKET WITH SEED
 - F/T SILT FENCE / FILTER TUBE
 - T FIBER FILTRATION TUBE OUTLET PROTECTION

NOTES:
1. LOCATION OF EXISTING 10" WATER MAIN SHOWN BASED ON OWNER UTILITY MAPS. VERIFY LOCATION, DEPTH, AND PIPE MATERIAL PRIOR TO INSTALLATION OF NEW WATER MAIN.

SCALE VERIFICATION	DRAWN BY	MR	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	MR				
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	ISSUE DATE	FEBRUARY 2020				
	PROJECT NUMBER	218619-04-001				



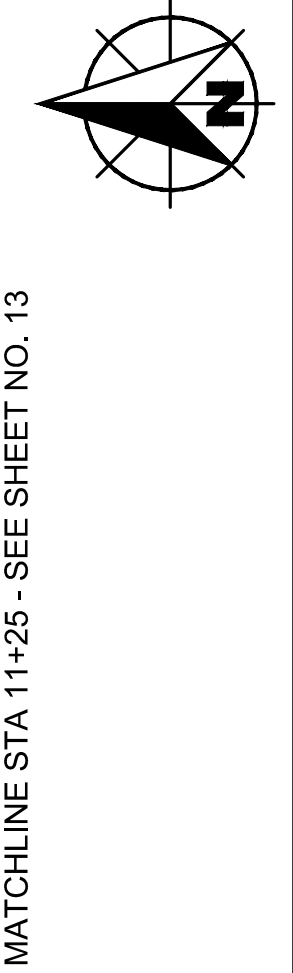
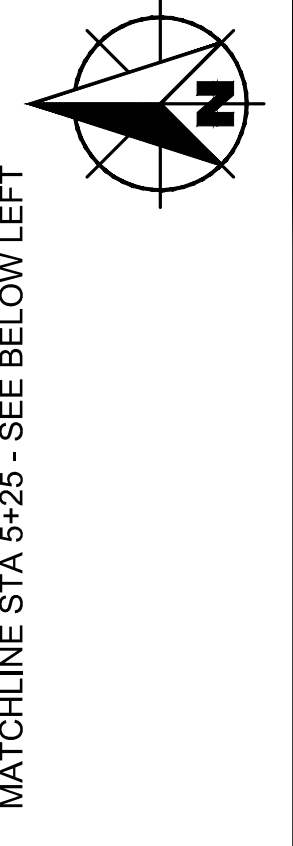
REMINGTON / WHITE COUNTY WATER MAIN EXTENSION - PHASE I

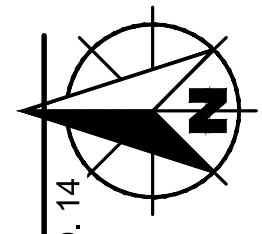
TOWN OF REMINGTON, INDIANA

WATER MAIN PLAN
LINE C - CR 380W

SHEET NO.	12
TOTAL SHEETS	24

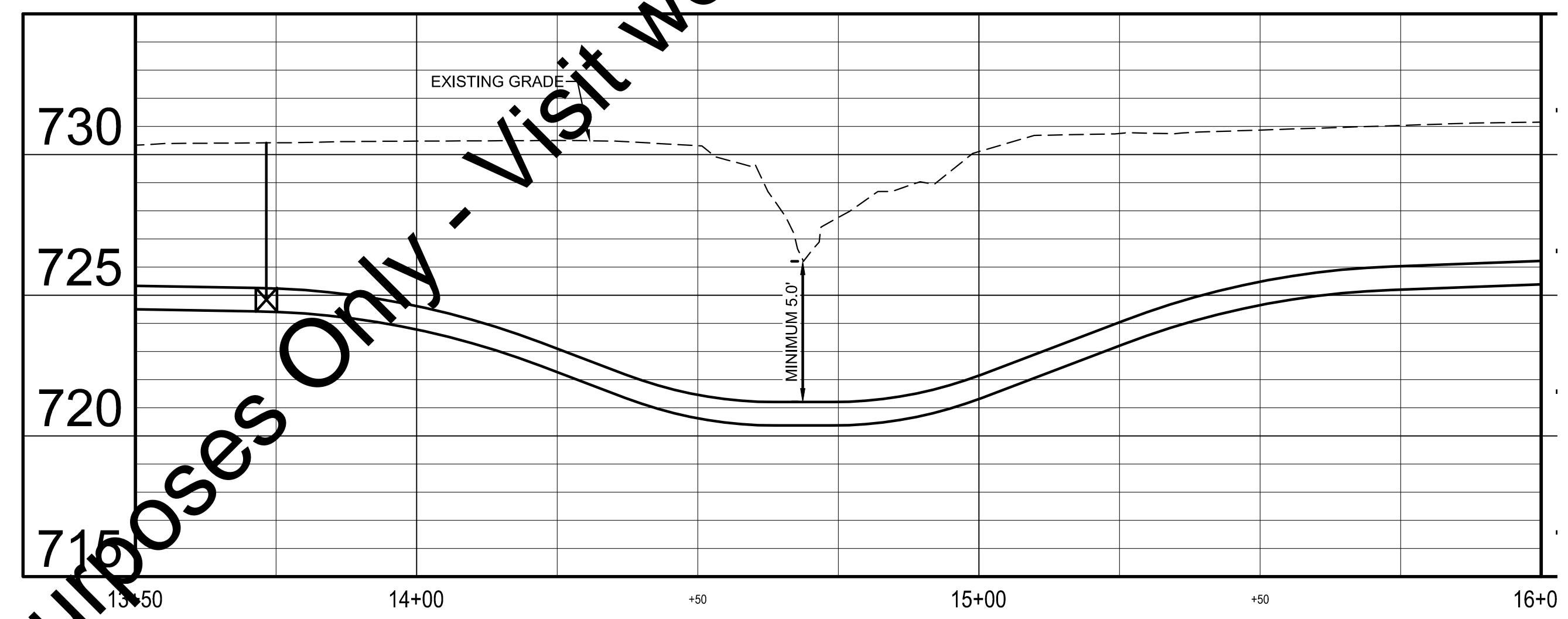
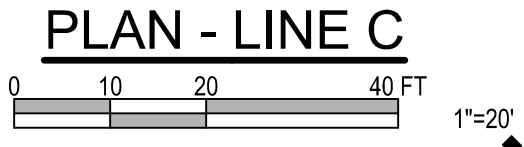
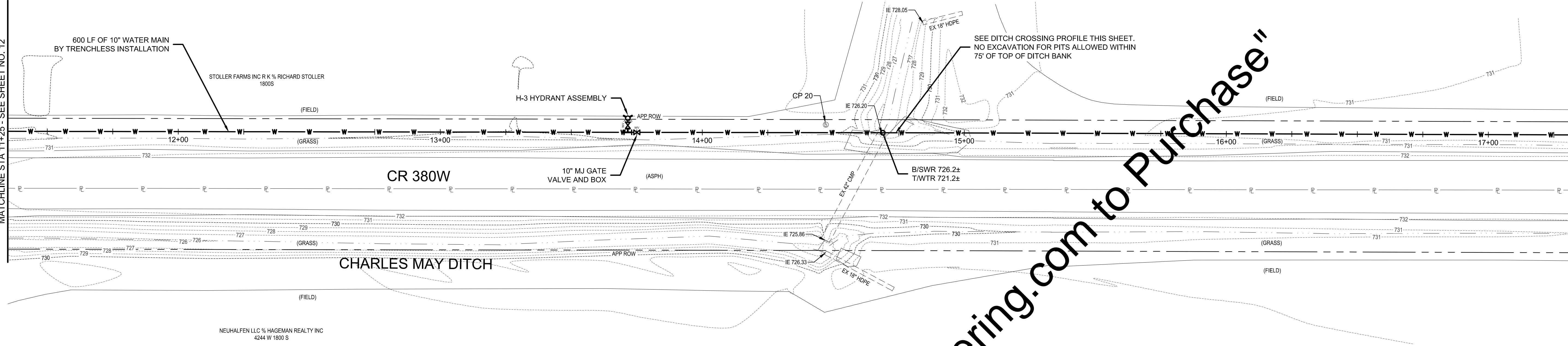
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MATCHLINE STA 11+25 - SEE SHEET NO. 12

MATCHLINE STA 17+25 - SEE SHEET NO. 14



DITCH CROSSING PROFILE - LINE C
 HORIZ SCALE: 1" = 20'
 VERT SCALE: 1" = 4'

- KEYED NOTES**
- D ASPHALT ROADWAY REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
 - D₁ ASPHALT DRIVE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
 - N CRUSHED STONE SURFACE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
- EROSION CONTROL**
- I INLET PROTECTION
 - E EROSION CONTROL BLANKET WITH SEED
 - F/T SILT FENCE / FILTER TUBE
 - T FIBER FILTRATION TUBE OUTLET PROTECTION

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	APPROVED BY	MR. JEB				
	ISSUE DATE	FEBRUARY 2020				
	PROJECT NUMBER	218619-04-001				



REMINGTON / WHITE COUNTY WATER MAIN EXTENSION - PHASE I

TOWN OF REMINGTON, INDIANA

**WATER MAIN PLAN
LINE C - CR 380W**

SHEET NO.
13

TOTAL SHEETS
24

MATCHLINE STA 17+25 - SEE SHEET NO. 13

MATCHLINE STA 23+25 - SEE SHEET NO. 15

MATCHLINE STA 23+25 - SEE ABOVE RIGHT

MATCHLINE STA 29+25 - SEE SHEET NO. 15

600 LF OF 10" WATER MAIN BY TRENCHLESS INSTALLATION

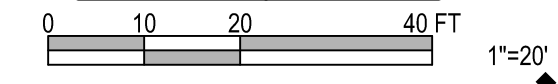
STOLLER FARMS INC R K % RICHARD STOLLER 1800S

NEUHALFEN LLC % HAGEMAN REALTY INC 4244 W 1800 S

CR 380W

EX 12" CMP

PLAN - LINE C



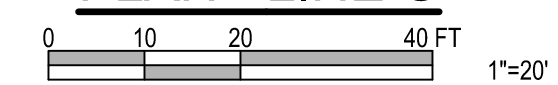
STOLLER FARMS INC R K % RICHARD STOLLER 1800S

600 LF OF 10" WATER MAIN BY TRENCHLESS INSTALLATION

CR 380W

CP 21

PLAN - LINE C




KEYED NOTES ○

- D ASPHALT ROADWAY REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
- D₁ ASPHALT DRIVE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
- N CRUSHED STONE SURFACE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD

EROSION CONTROL

- I INLET PROTECTION
- E EROSION CONTROL BLANKET WITH SEED
- F/T SILT FENCE / FILTER TUBE
- T FIBER FILTRATION TUBE OUTLET PROTECTION

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	ISSUE DATE FEBRUARY 2020				
	PROJECT NUMBER 218619-04-001				



REMINGTON / WHITE COUNTY WATER MAIN EXTENSION - PHASE I

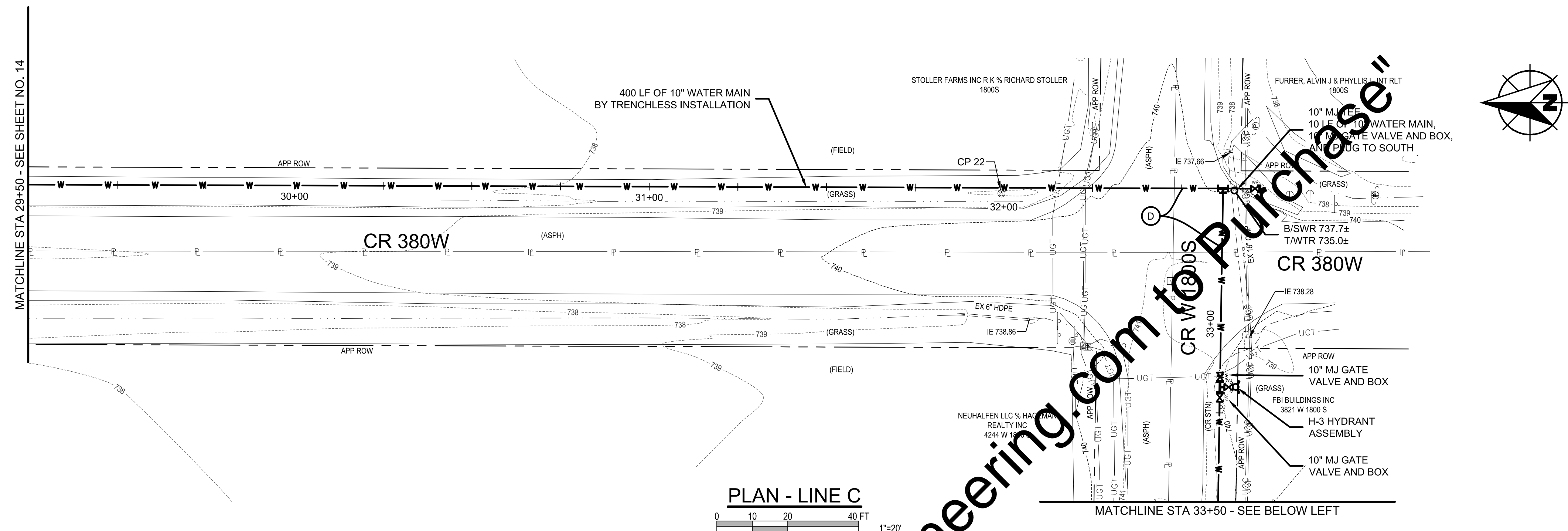
TOWN OF REMINGTON, INDIANA

WATER MAIN PLAN
LINE C - CR 380W

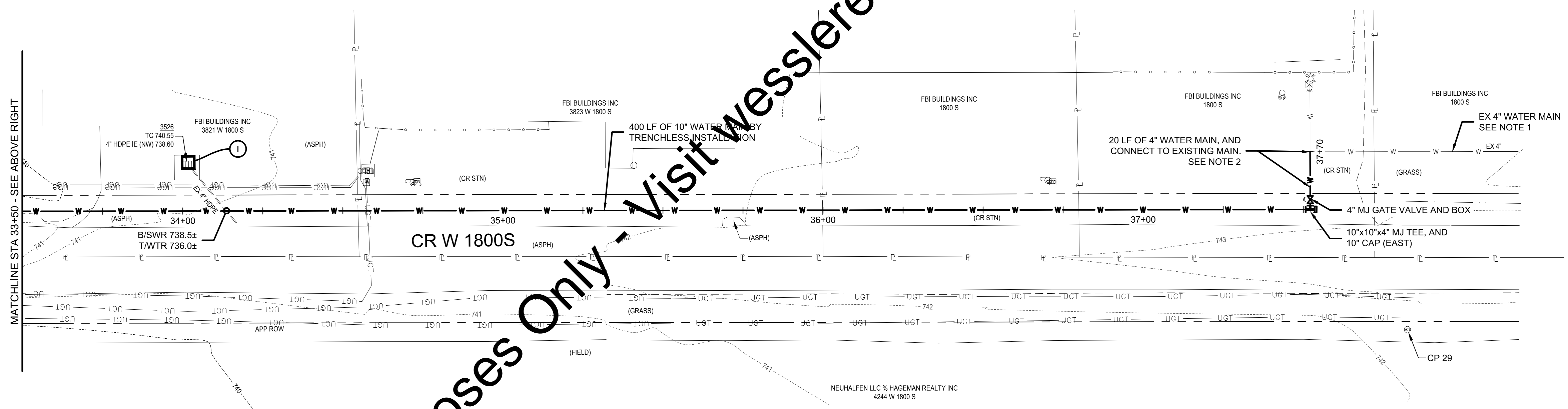
SHEET NO.	14
TOTAL SHEETS	24

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PLAN - LINE C
0 10 20 40 FT 1"=20'




PLAN - LINE C
0 10 20 40 FT 1"=20'

- KEYED NOTES** ○
- D ASPHALT ROADWAY REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
 - D₁ ASPHALT DRIVE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
 - N CRUSHED STONE SURFACE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
- EROSION CONTROL**
- I INLET PROTECTION
 - E EROSION CONTROL BLANKET WITH SEED
 - F/T SILT FENCE / FILTER TUBE
 - T FIBER FILTRATION TUBE OUTLET PROTECTION

- NOTES:**
1. EXISTING 4" WATER MAIN SHOWN BASED ON OWNER'S UTILITY MAPS. VERIFY LOCATION, SIZED, DEPTH AND PIPE MATERIAL PRIOR TO THE INSTALLATION OF NEW WATER MAIN.
 2. TYPE OF FITTINGS AT END OF EXISTING 4" WATER MAIN IS NOT KNOWN. VERIFY EXISTING CONDITIONS AND PROVIDE NECESSARY FITTINGS TO MAKE CONNECTION.

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	ISSUE DATE	FEBRUARY 2020				
	PROJECT NUMBER	218619-04-001				

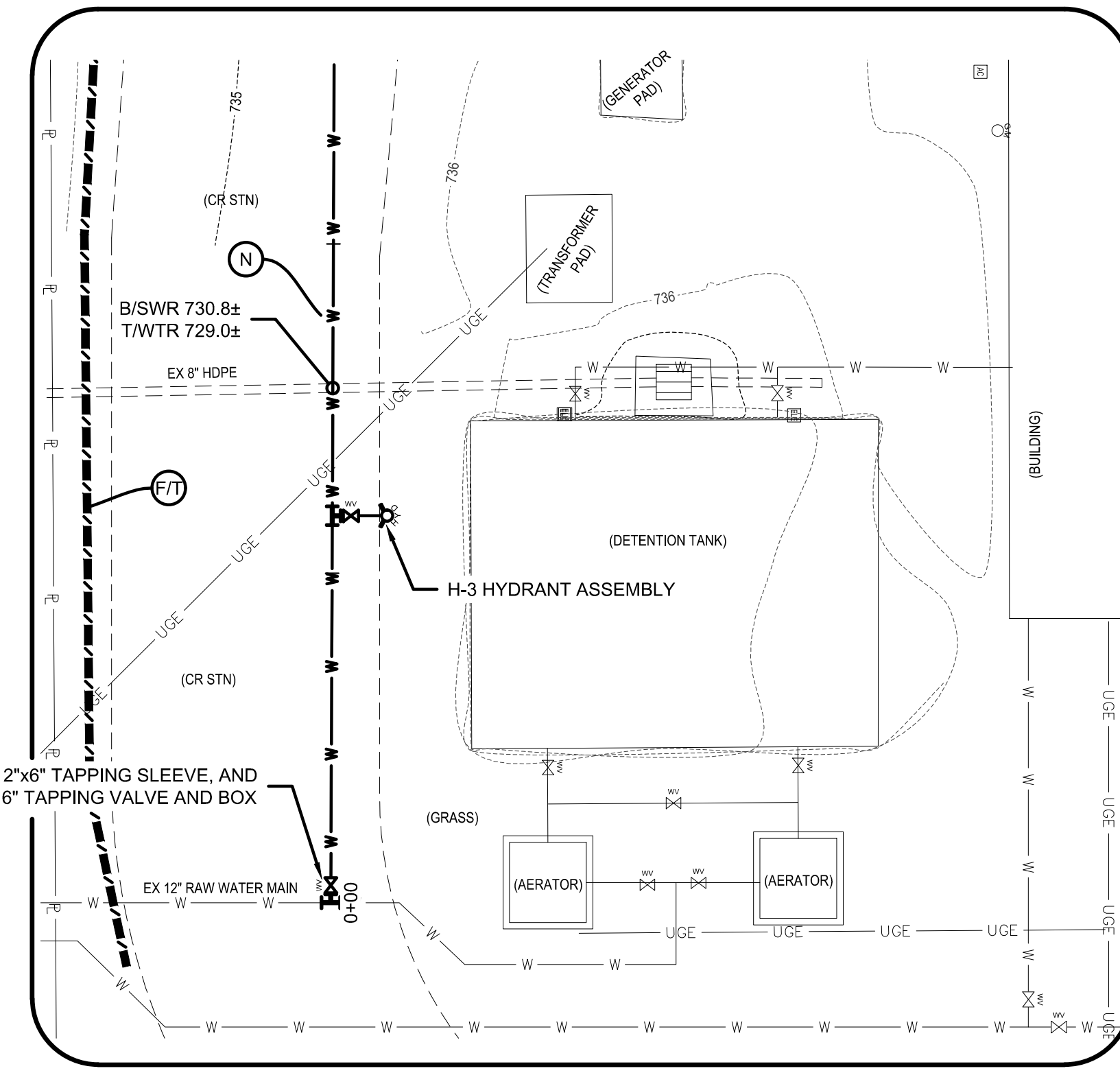
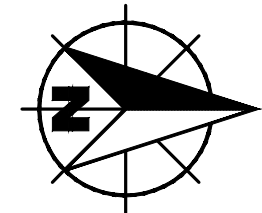


REMINGTON / WHITE COUNTY WATER MAIN EXTENSION - PHASE I

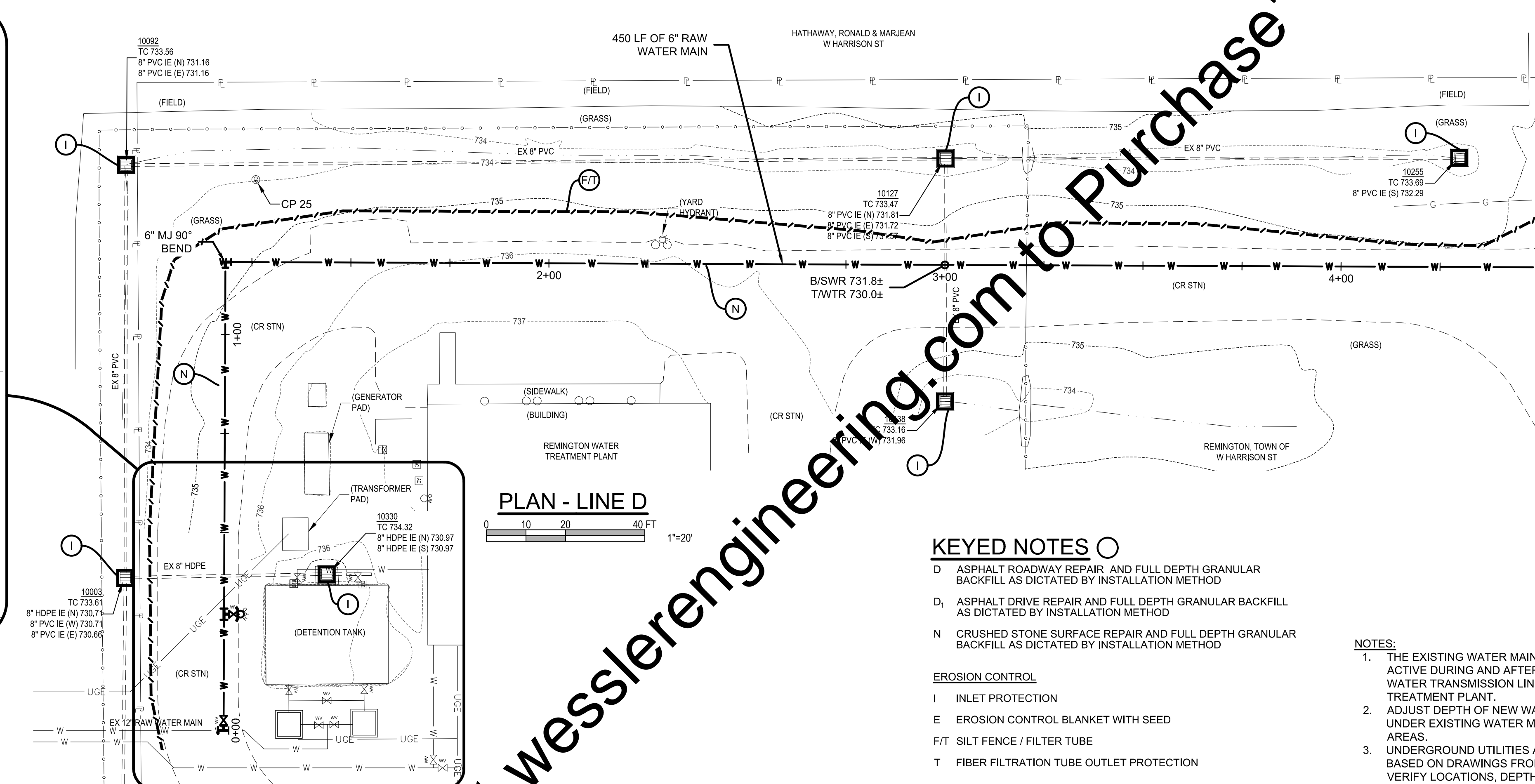
TOWN OF REMINGTON, INDIANA

**WATER MAIN PLAN
LINE C - W 1800 S**

SHEET NO.	15
TOTAL SHEETS	24



DETAIL PLAN
0 5 10 20 FT
1"=10'



PLAN - LINE D
0 10 20 40 FT
1"=20'

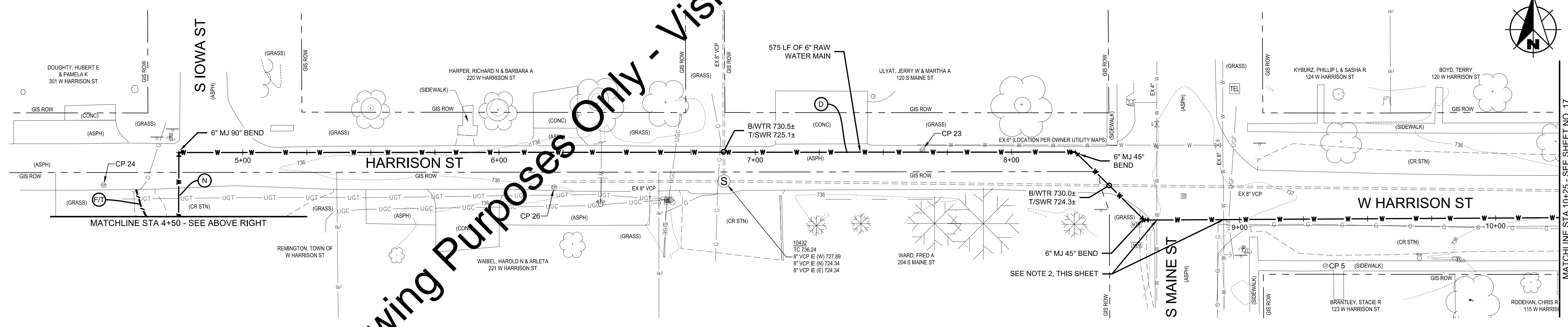
KEYED NOTES ○

- D ASPHALT ROADWAY REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
 - D₁ ASPHALT DRIVE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
 - N CRUSHED STONE SURFACE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
- EROSION CONTROL
- I INLET PROTECTION
 - E EROSION CONTROL BLANKET WITH SEED
 - F/T SILT FENCE / FILTER TUBE
 - T FIBER FILTRATION TUBE OUTLET PROTECTION

NOTES:

1. THE EXISTING WATER MAINS ALONG HARRISON STREET WILL REMAIN ACTIVE DURING AND AFTER PROJECT. NEW 6" WATER MAIN IS A RAW WATER TRANSMISSION LINE FROM WELL NO. 4 TO THE WATER TREATMENT PLANT.
2. ADJUST DEPTH OF NEW WATER MAIN ACCORDINGLY TO INSTALL UNDER EXISTING WATER MAIN. THERE ARE NO TIE OVERS IN THESE AREAS.
3. UNDERGROUND UTILITIES AT THE WATER TREATMENT PLANT ARE BASED ON DRAWINGS FROM THE CONSTRUCTION OF THE FACILITY. VERIFY LOCATIONS, DEPTHS, AND SIZED PRIOR TO INSTALLING NEW WORK.

MATCHLINE STA 4+50 - SEE BELOW LEFT



PLAN - LINE D
0 10 20 40 FT
1"=20'

MATCHLINE STA 10+25 - SEE SHEET NO. 17

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	APPROVED BY	MR. J. JEB				
	ISSUE DATE	FEBRUARY 2020				
	PROJECT NUMBER	218619-04-001				

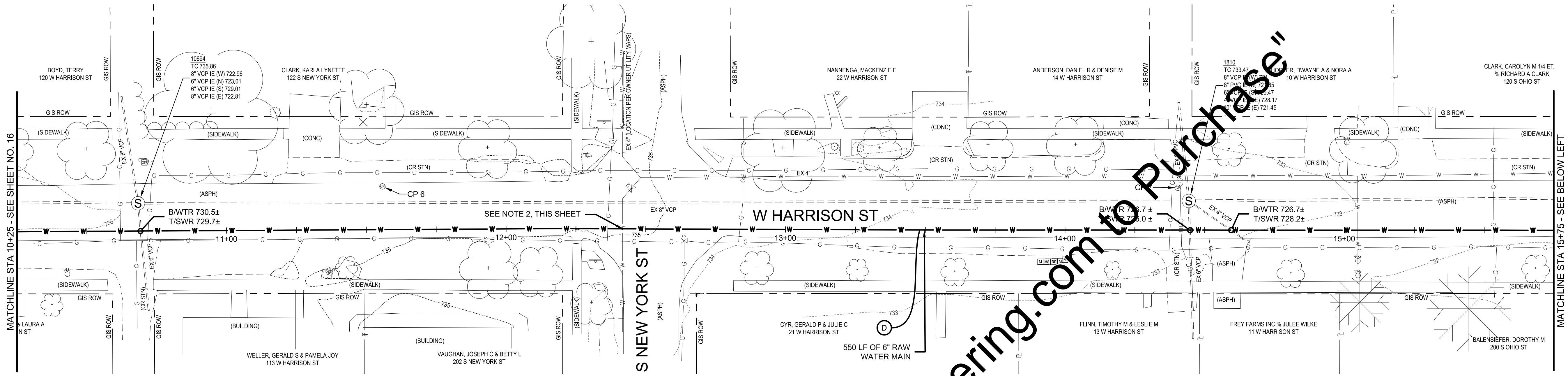
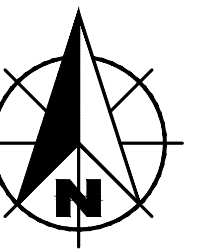


REMINGTON / WHITE COUNTY WATER MAIN EXTENSION - PHASE I

TOWN OF REMINGTON, INDIANA

WATER MAIN PLAN
LINE D - WTP

SHEET NO.	16
TOTAL SHEETS	24



PLAN - LINE D
0 10 20 40 FT
1"=20'

KEYED NOTES

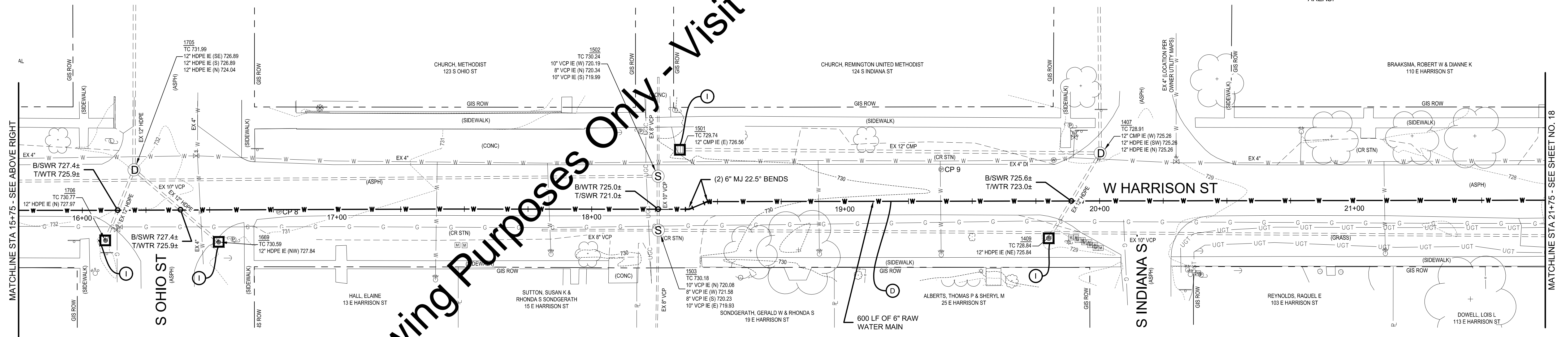
- D ASPHALT ROADWAY REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
- D₁ ASPHALT DRIVE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
- N CRUSHED STONE SURFACE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD

EROSION CONTROL

- I INLET PROTECTION
- E EROSION CONTROL BLANKET WITH SEED
- F/T SILT FENCE / FILTER TUBE
- T FIBER FILTRATION TUBE OUTLET PROTECTION

NOTES:

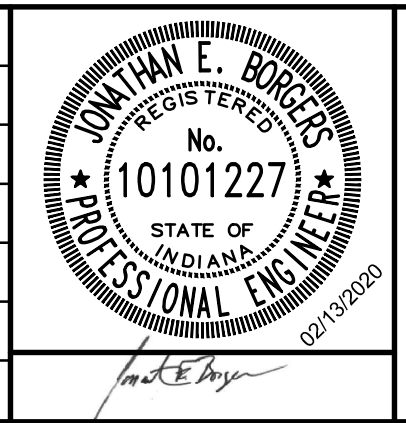
1. THE EXISTING WATER MAINS ALONG HARRISON STREET WILL REMAIN ACTIVE DURING AND AFTER PROJECT. NEW 6" WATER MAIN IS A RAW WATER TRANSMISSION LINE FROM WELL NO. 4 TO THE WATER TREATMENT PLANT.
2. ADJUST DEPTH OF NEW WATER MAIN ACCORDINGLY TO INSTALL UNDER EXISTING WATER MAIN. THERE ARE NO TIE OVERS IN THESE AREAS.



PLAN - LINE D
0 10 20 40 FT
1"=20'

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	APPROVED	JEB				
	ISSUE DATE	FEBRUARY 2020				
	PROJECT NUMBER	218619-04-001				



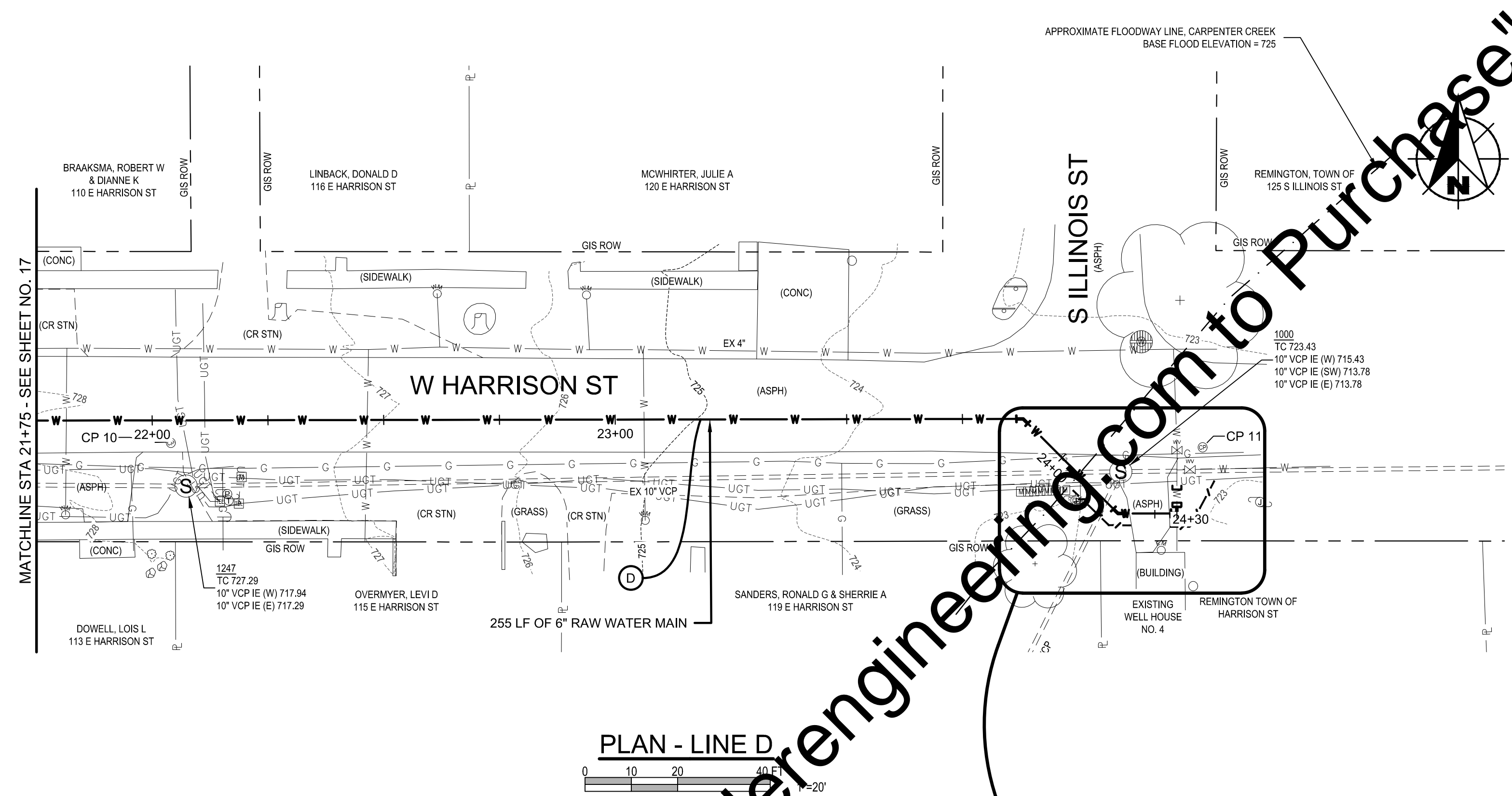
REMINGTON / WHITE COUNTY WATER MAIN EXTENSION - PHASE I

TOWN OF REMINGTON, INDIANA

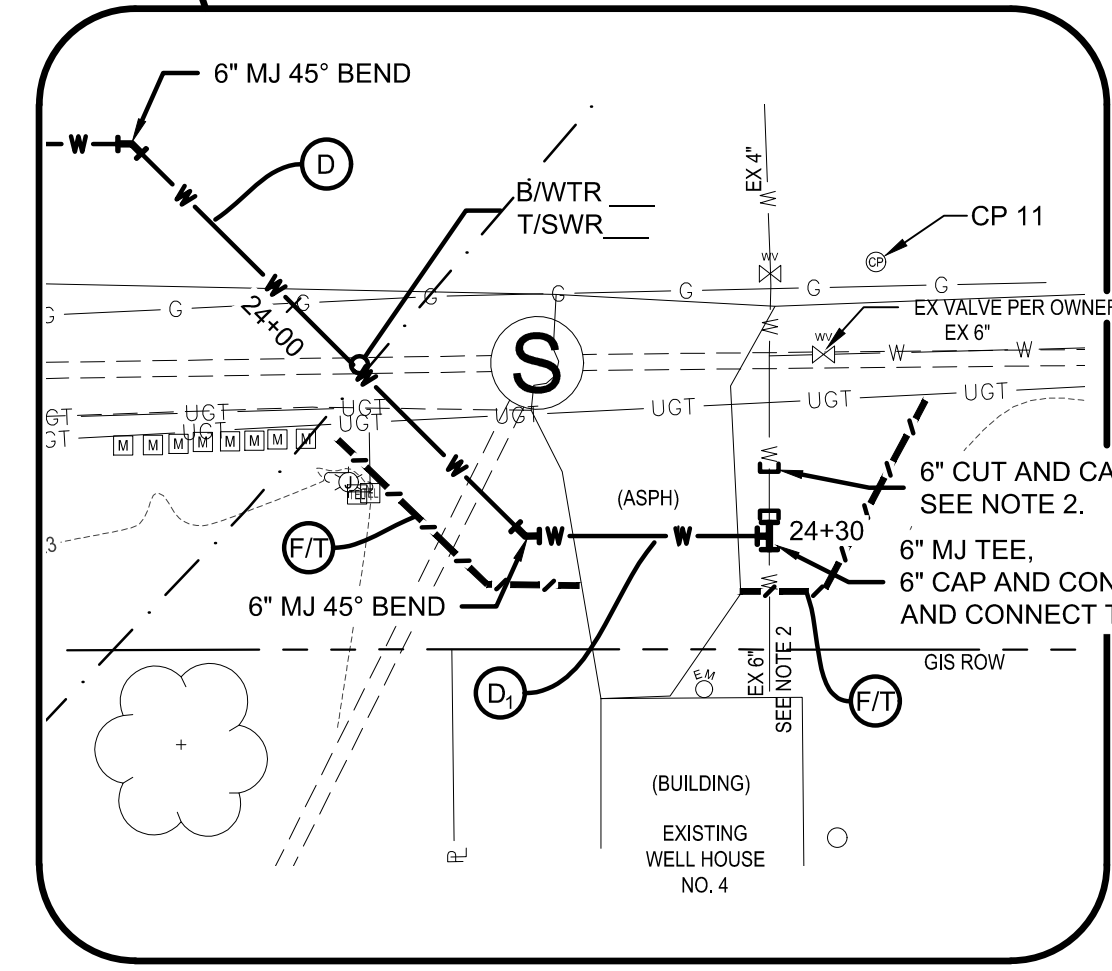
WATER MAIN PLAN
LINE D - HARRISON STREET

SHEET NO.	17
TOTAL SHEETS	24

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PLAN - LINE D
1"=20'



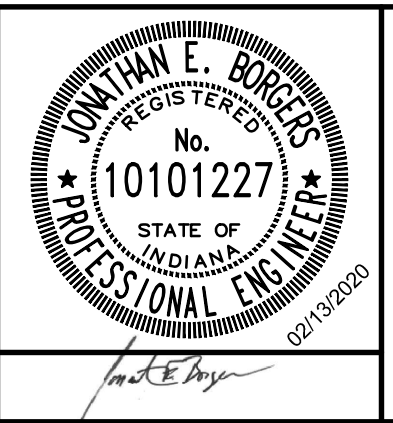
DETAIL PLAN
1"=10'

KEYED NOTES

- D ASPHALT ROADWAY REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
 - D₁ ASPHALT DRIVE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
 - N CRUSHED STONE SURFACE REPAIR AND FULL DEPTH GRANULAR BACKFILL AS DICTATED BY INSTALLATION METHOD
- EROSION CONTROL**
- I INLET PROTECTION
 - E EROSION CONTROL BLANKET WITH SEED
 - F/T SILT FENCE / FILTER TUBE
 - T FIBER FILTRATION TUBE OUTLET PROTECTION

- NOTES:**
- THE EXISTING WATER MAINS ALONG HARRISON STREET WILL REMAIN ACTIVE DURING AND AFTER PROJECT. NEW 6" WATER MAIN IS A RAW WATER TRANSMISSION LINE FROM WELL NO. 4 TO THE WATER TREATMENT PLANT.
 - THE SIZE OF WATER MAIN OUT OF WELL HOUSE NO. 4 IS NOT KNOWN. LOCATE AND VERIFY SIZE PRIOR TO PROCEEDING WITH CONNECTION TO NEW MAIN. IF EXISTING WATER MAIN IS 4", INCLUDE A 6"x4" MJ REDUCER TO MAKE TRANSITION TO NEW 6" WATER MAIN, AND 4" CAP ON EXISTING MAIN.

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	APPROVED BY JEB				
	ISSUE DATE FEBRUARY 2020				
	PROJECT NUMBER 218619-04-001				

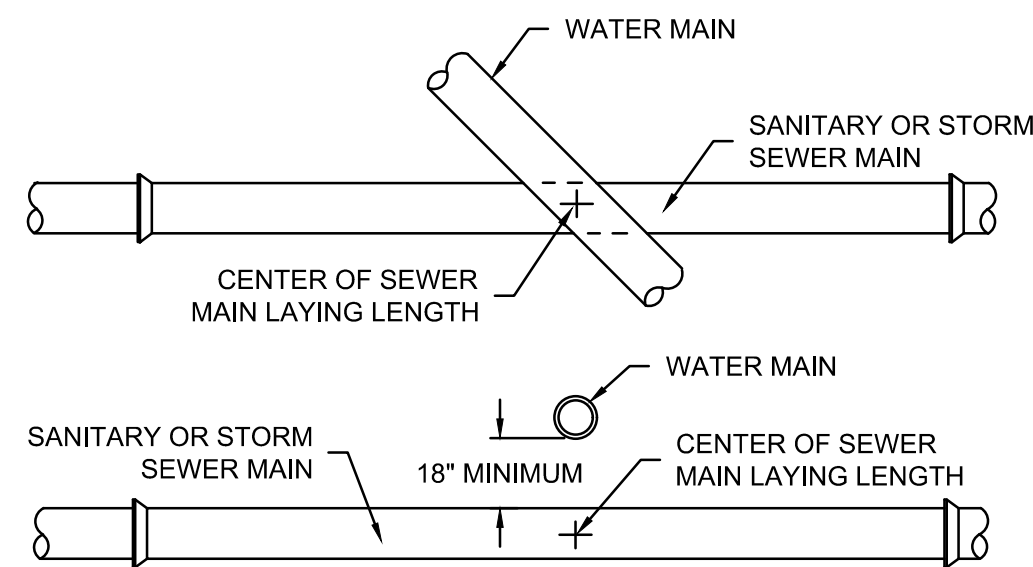


REMINGTON / WHITE COUNTY WATER MAIN EXTENSION - PHASE I

TOWN OF REMINGTON, INDIANA

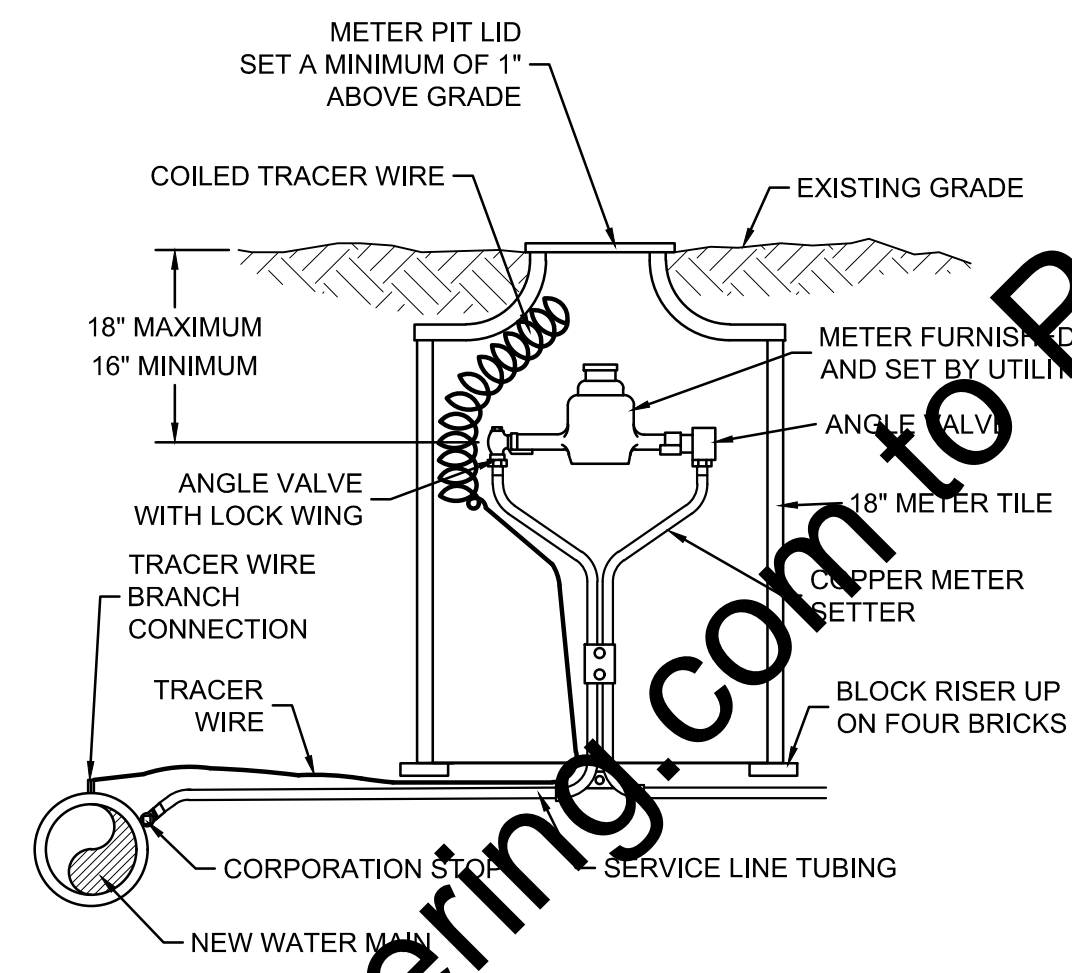
**WATER MAIN PLAN
LINE D - HARRISON STREET**

SHEET NO. 18
TOTAL SHEETS 24



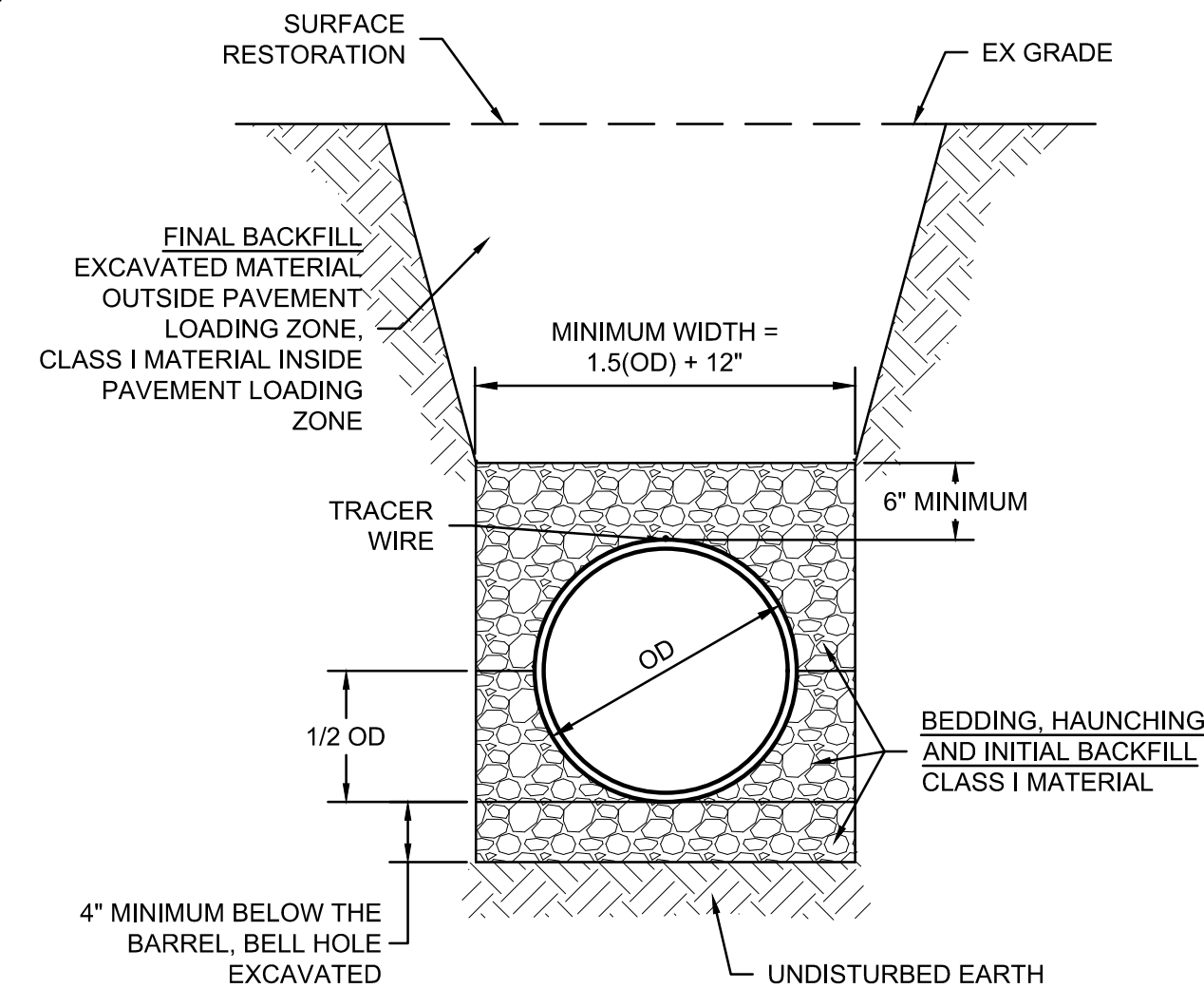
NOTES:
 1. WATER MAIN AND SEWER MINIMUM SEPARATION: 18" VERTICAL SEPARATION 10'-0" HORIZONTAL SEPARATION.
 2. WHERE WATER MAIN AND SEWER SEPARATION IS LESS THAN 18" VERTICAL OR 10' HORIZONTAL, THE SEWER MUST BE DUCTILE IRON, SDR-21 PVC, OR CONCRETE ENCASED.

MINIMUM CROSSOVER AND SEPARATION REQUIREMENTS FOR SEWER AND WATER MAINS
 SCALE: NONE

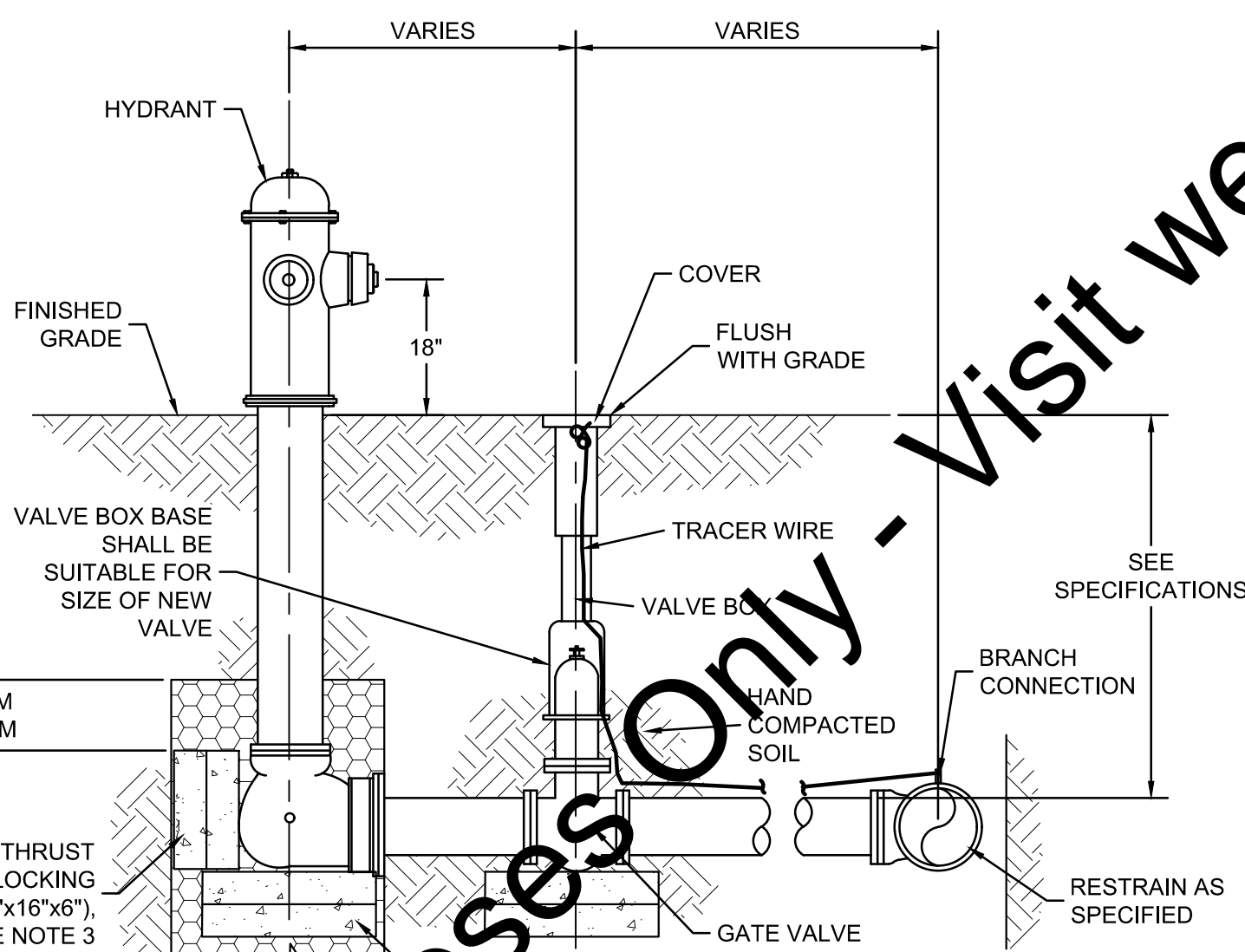


NOTES:
 1. NO SPLICES ALLOWED BETWEEN CORPORATION STOP AND COPPER METER SETTER.

WATER SERVICE AND METER PIT
 SCALE: NONE



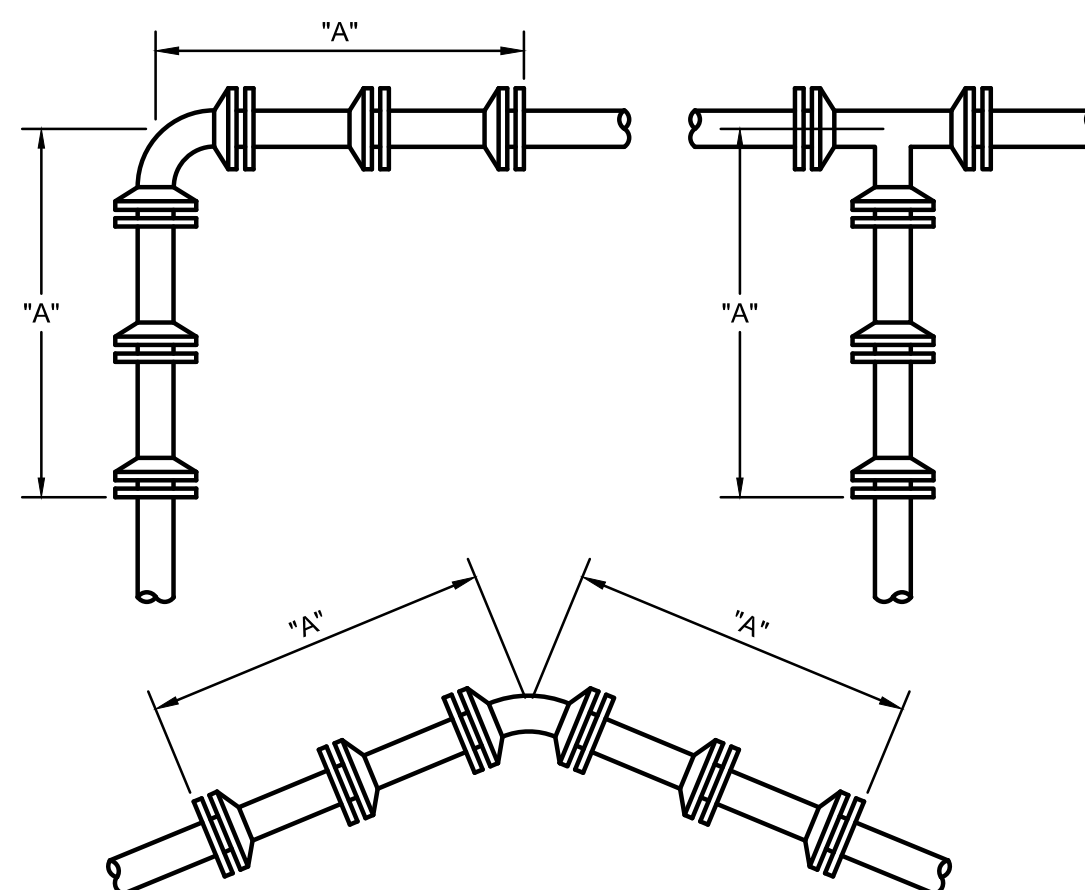
PLASTIC PIPE (PVC OR HDPE) TRENCH
 SCALE: NONE



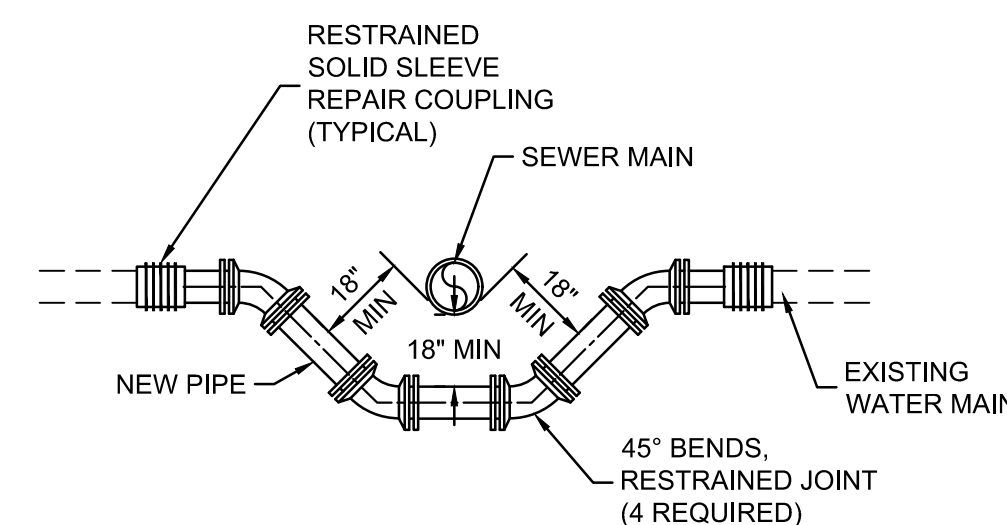
NOTES:
 1. SET HYDRANT AND VALVE ON CONCRETE SUPPORT BLOCKING.
 2. PLACE 2\"/>

HYDRANT ASSEMBLY
 SCALE: NONE

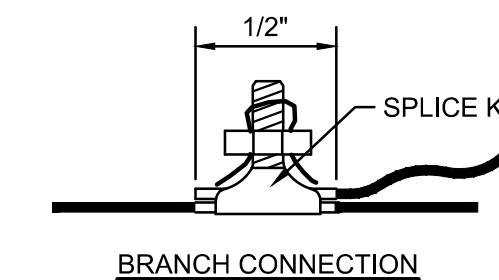
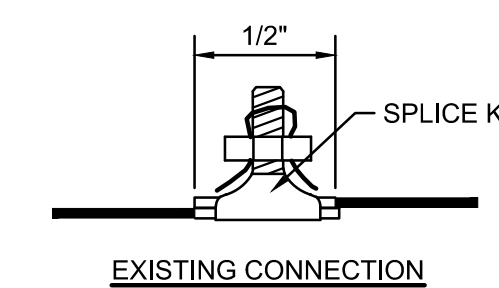
FITTING TYPE	FEET OF RESTRAINED PIPE @ 150 PSI (A) ON EACH SIDE OF FITTING				
	WATER MAIN SIZE				
	4 INCH	6 INCH	8 INCH	10 INCH	12 INCH
11 1/4° HORIZ BEND	4	2	2	3	3
22 1/2° HORIZ BEND	7	4	5	5	6
45° HORIZ BEND	14	7	9	11	12
90° HORIZ BEND	34	16	21	25	29
11 1/4° VERT BEND	6	3	4	4	5
22 1/2° VERT BEND	11	5	7	8	9
45° VERT BEND	22	11	13	16	19
90° VERT BEND	52	25	32	39	45
VALVES AND PLUGS	52	25	32	39	45
TEE OUTLET	51	25	31	38	45



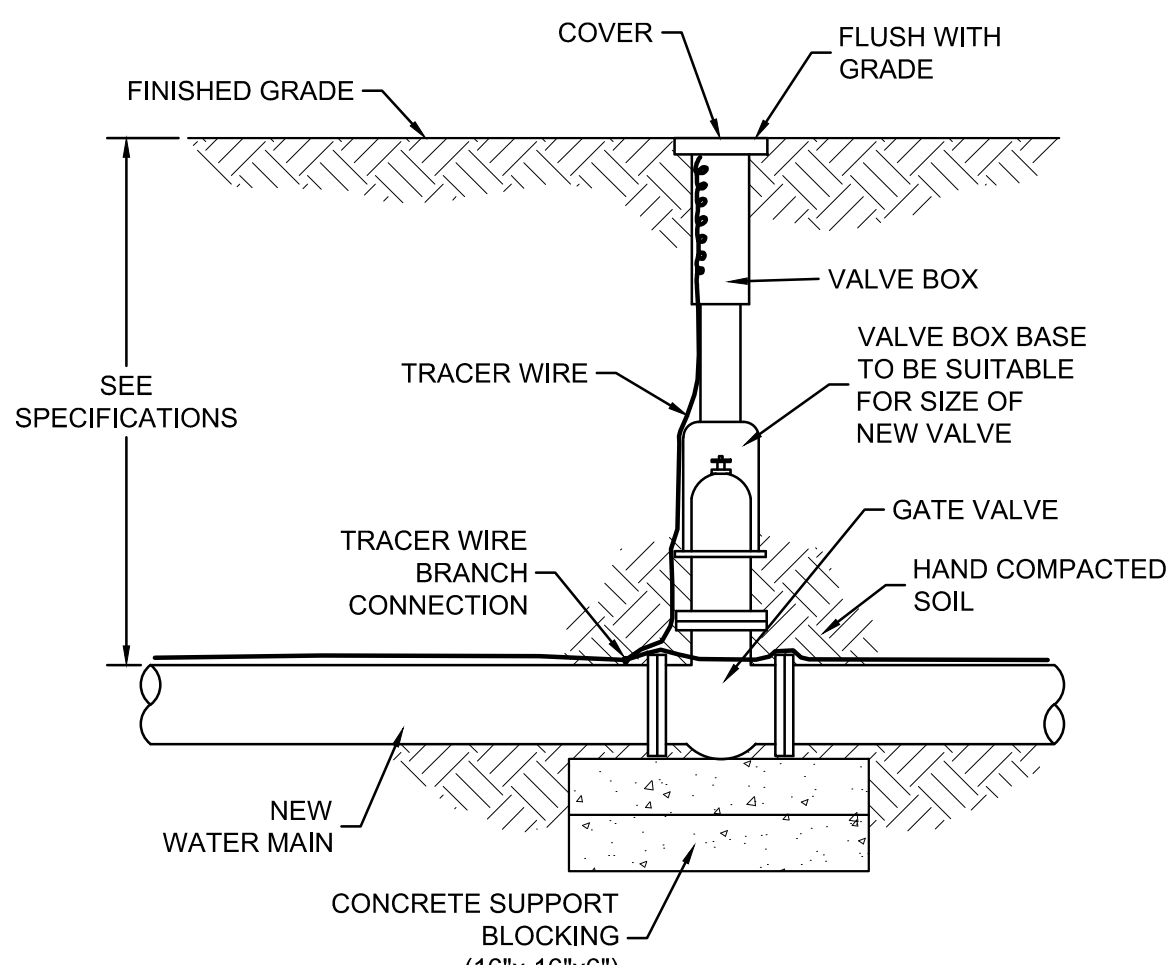
WATER MAIN RESTRAINED PIPING
 SCALE: NONE



WATER MAIN LOWERING
 SCALE: NONE



TRACER WIRE BOLTED CONNECTION
 SCALE: NONE



GATE VALVE
 SCALE: NONE

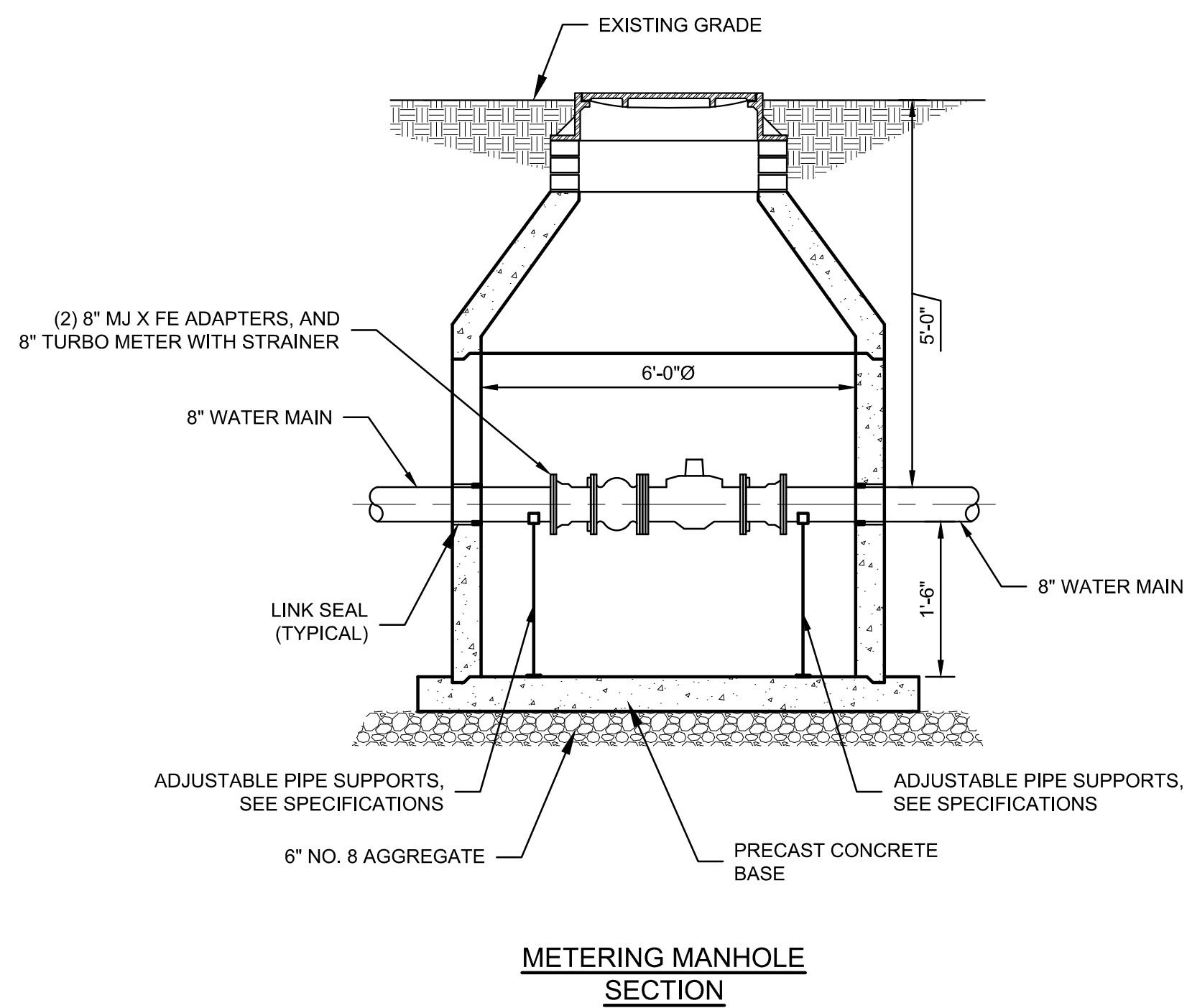
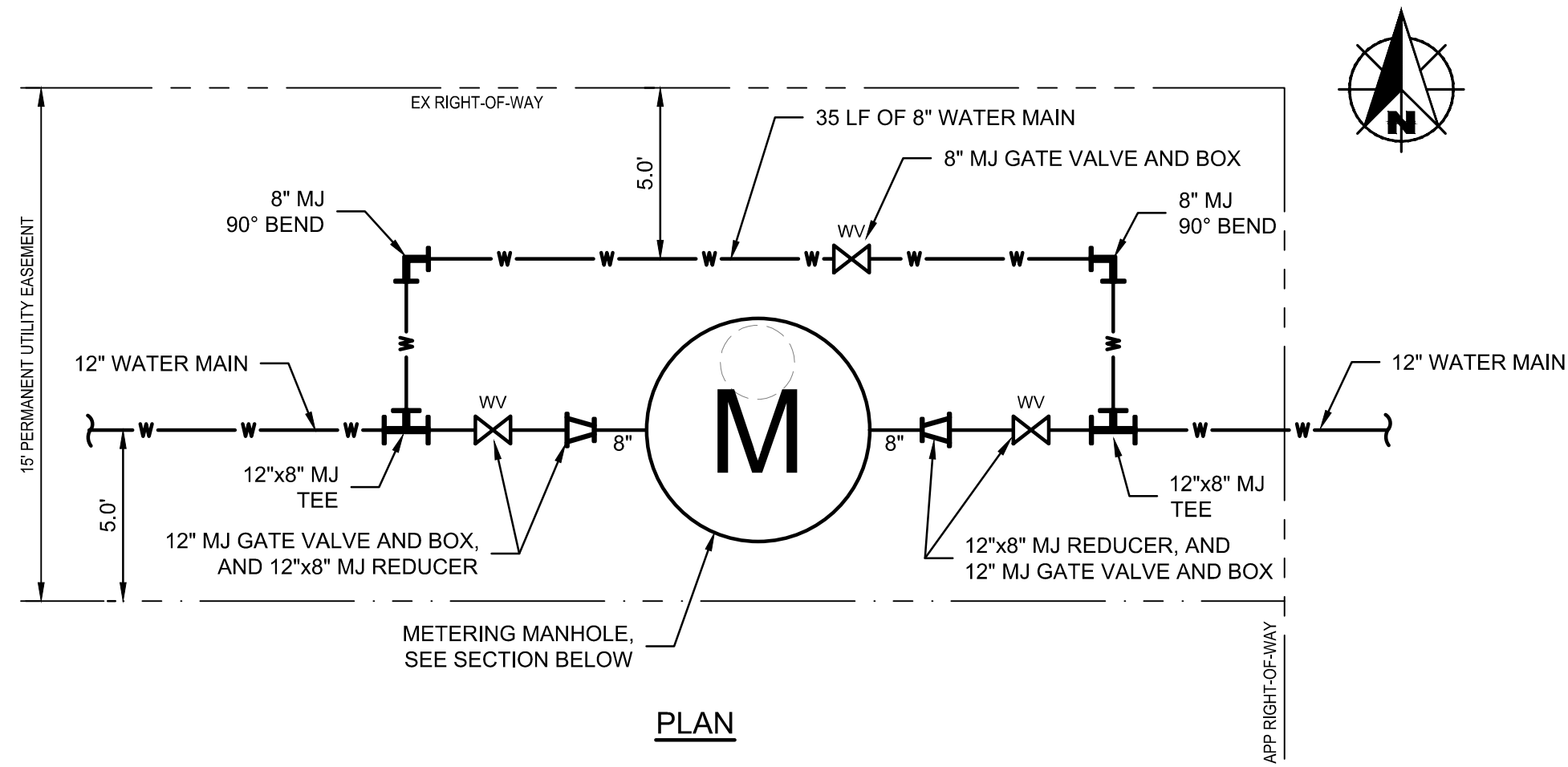
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	PROJECT NUMBER					
	218619-04-001					



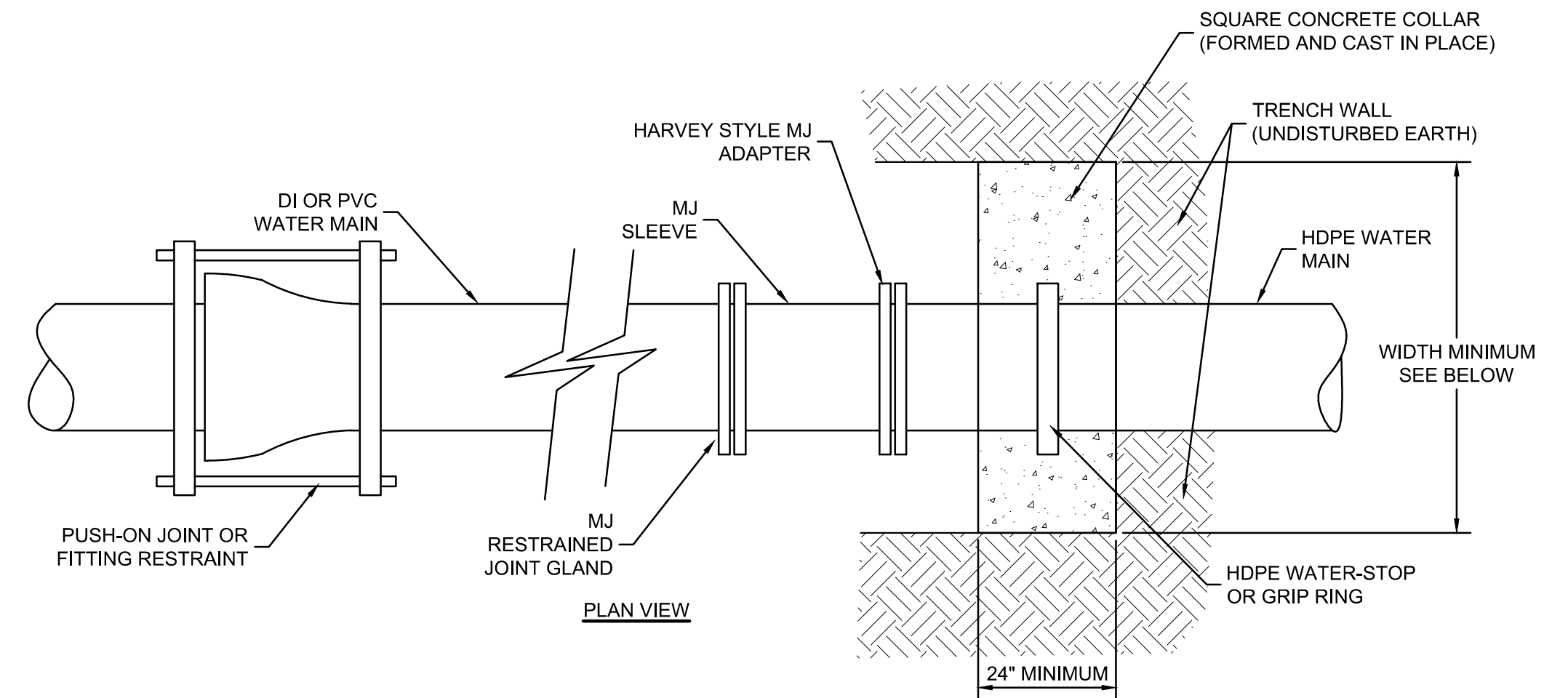
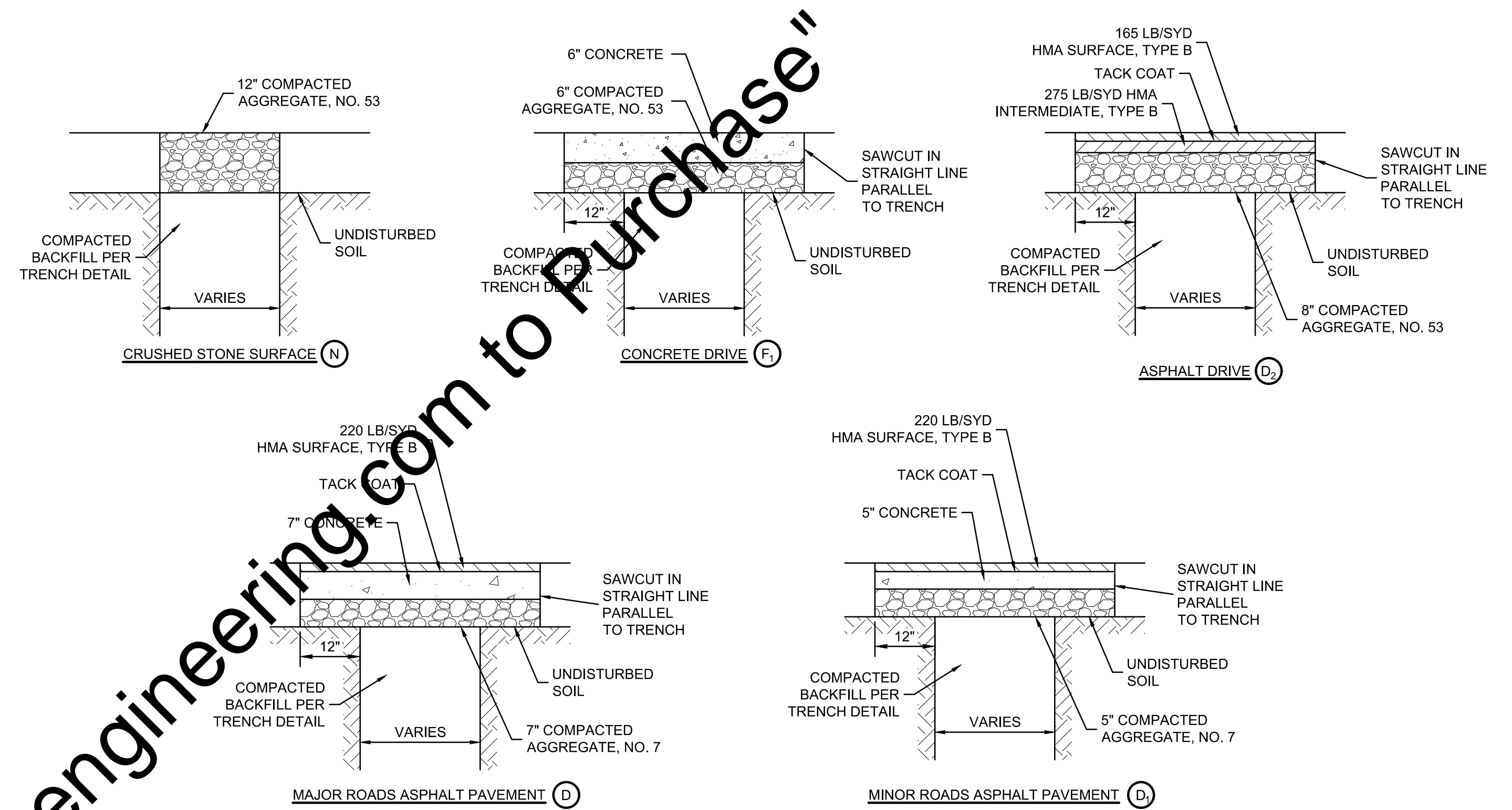
REMINGTON / WHITE COUNTY WATER MAIN EXTENSION - PHASE I
 TOWN OF REMINGTON, INDIANA
MISCELLANEOUS DETAILS

SHEET NO.	19
TOTAL SHEETS	24



- NOTES:**
- SEE LINE A SHEET 06 FOR METERING STRUCTURE LOCATION.
 - METER FURNISHED AND SET BY CONTRACTOR.

METERING STRUCTURE
SCALE: NONE



PIPE SIZE	BRACING AREA OF CONCRETE COLLAR	WIDTH MINIMUM
4"	2.25 SF	1'-6"
6"	5 SF	3'-0"
8"	9 SF	3'-6"
10"	13.5 SF	3'-8"
12"	18 SF	4'-3"
14"	21 SF	4'-9"

HDPE PIPE TRANSITION
SCALE: NONE

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BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	MEP				
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	ISSUE DATE					
	FEBRUARY 2020					
	PROJECT NUMBER					
	218619-04-001					

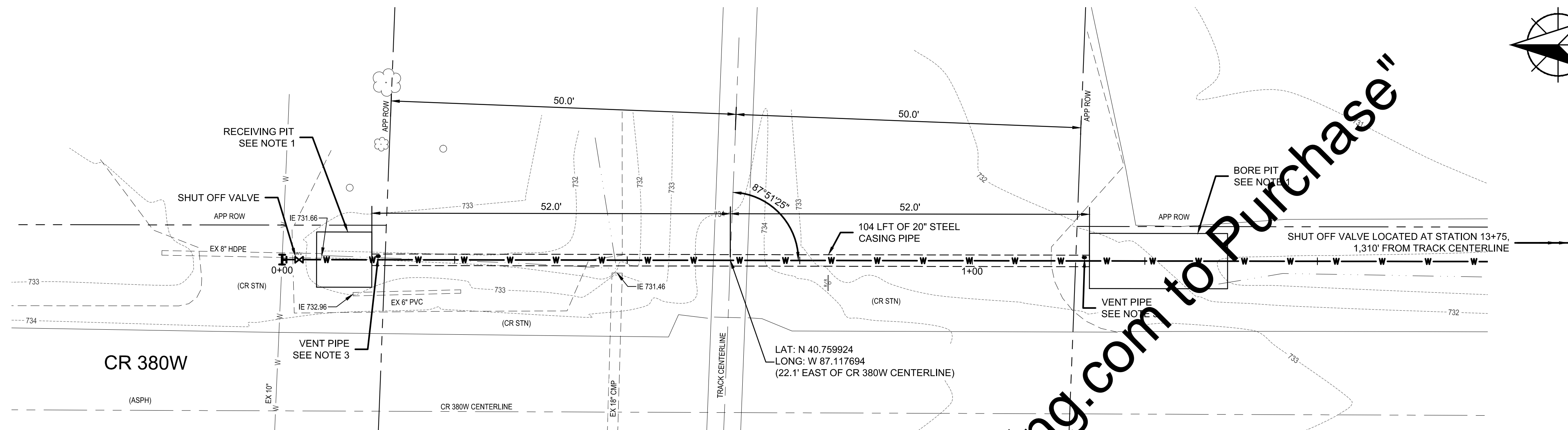
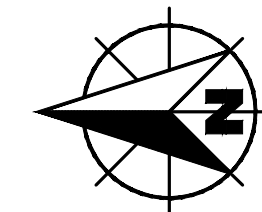


REMINGTON / WHITE COUNTY WATER MAIN EXTENSION - PHASE I

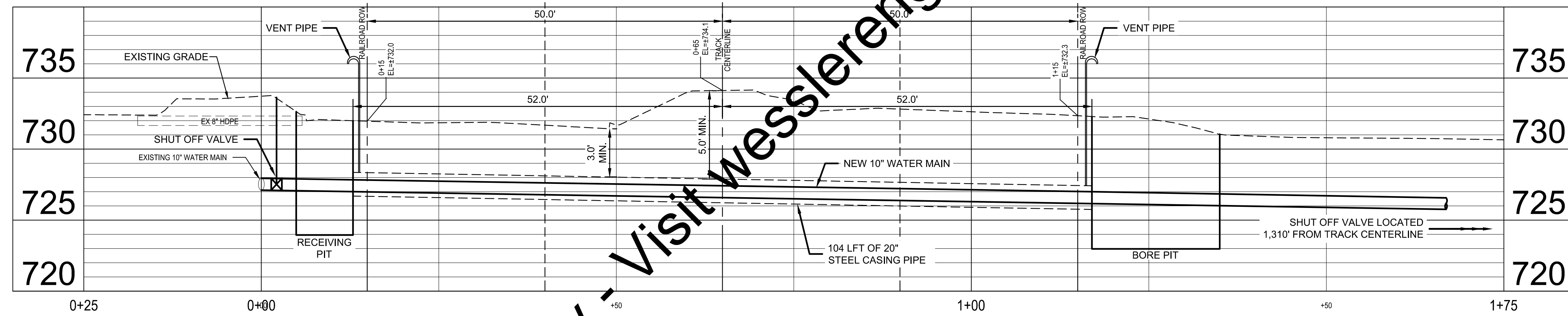
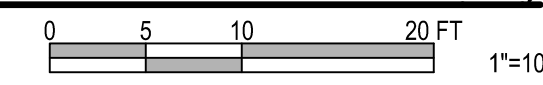
TOWN OF REMINGTON, INDIANA

MISCELLANEOUS DETAILS

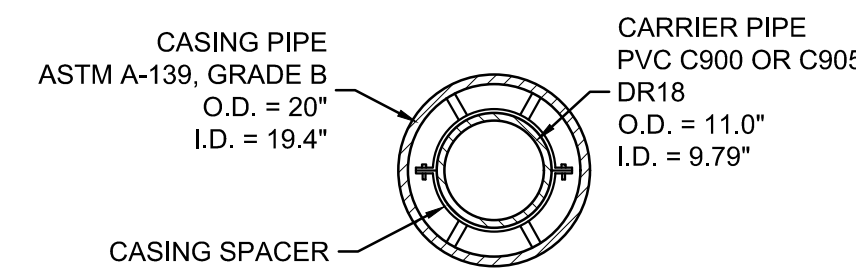
SHEET NO.	20
TOTAL SHEETS	24



DETAIL PLAN - TP&W RAILROAD CROSSING
(LINE C - SEE SHT 12)



DETAIL PROFILE - TP&W RAILROAD CROSSING
HORIZ SCALE: 1" = 10'
VERT SCALE: 1" = 5'



CASING & UTILITY PIPE CROSS SECTION
SCALE: NONE

- NOTES:
- APPROXIMATE SIZE AND LOCATION OF BORING AND RECEIVING PITS SHOWN. NO EXCAVATION IS ALLOWED WITHIN THE RAILROAD RIGHT-OF-WAY.
 - STEEL CASING SHALL BE WELDED STEEL PIPE IN ACCORDANCE WITH CURRENT ASTM SPECIFICATION A-139 GRADE B.
 - INSTALL 2" VENT PIPE AT THE BENDS OF CASING PIPE. VENT SHALL BE OF THE SAME MATERIAL AS CASING PIPE AND BE FITTED WITH A DOWN-TURNED ELBOW AND SCREEN, A MINIMUM OF 4'-0" ABOVE GRADE. VENTS SHALL BE LOCATED OUTSIDE THE RAILROAD RIGHT-OF-WAY.
 - CARRIER PIPE (WATER MAIN) SHALL BE PVC C900.

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	APPROVED BY	JEB				
	ISSUE DATE	FEBRUARY 2020				
	PROJECT NUMBER	218619-04-001				

W
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REMINGTON / WHITE COUNTY WATER MAIN EXTENSION - PHASE I

TOWN OF REMINGTON, INDIANA

RAILROAD CROSSING DETAILS

SHEET NO.	21
TOTAL SHEETS	24



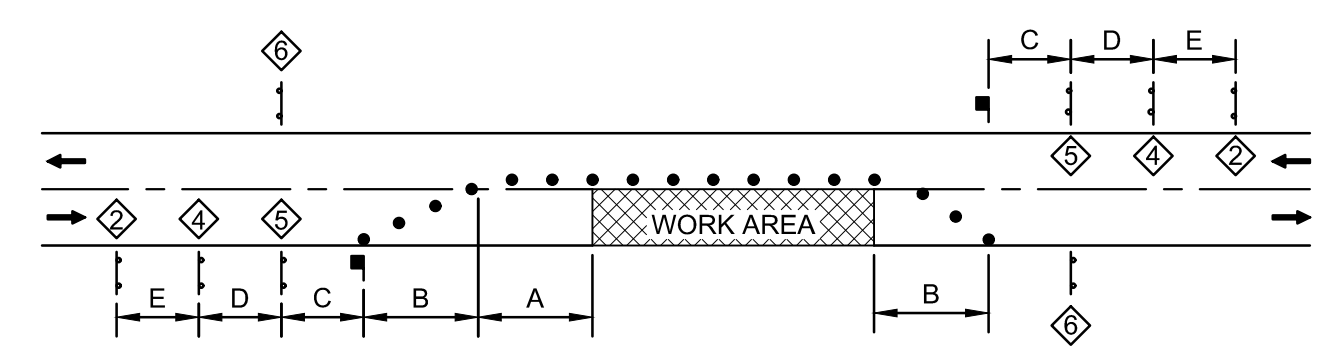
2013 IMAGERY FROM INDIANA STATE MAP.

LOCATION OF WORK PLAN



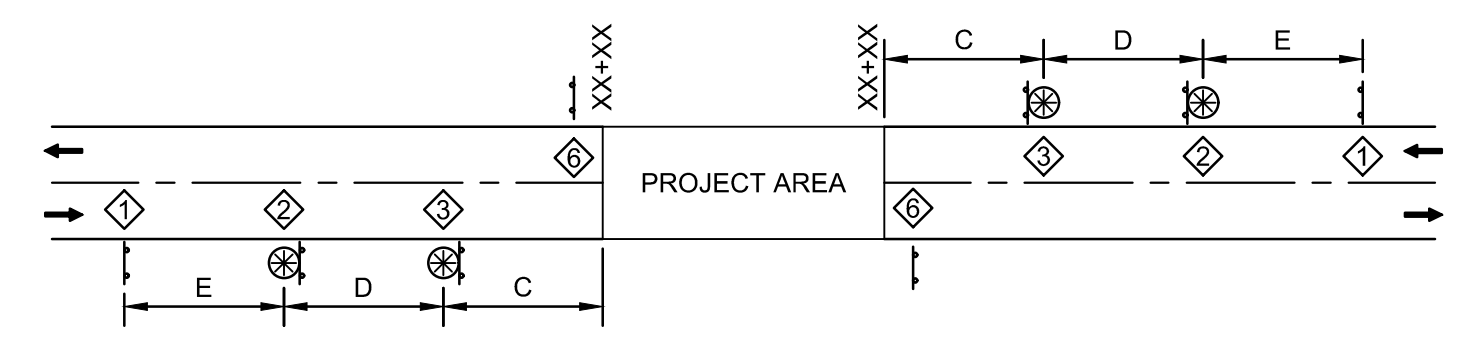
SPEED (MPH)	DISTANCE (FEET)				
	A	B	C	D	E
20 OR LESS	120	100	100	100	100
25	160	100	100	100	100
30	200	100	100	100	100
35	280	100	350	350	350
40	320	100	350	350	350
45	360	100	500	500	500
50	440	100	500	500	500
55	520	100	500	500	500
60	600	100	1,000	1,600	2,640
65	680	100	1,000	1,600	2,640
70	760	100	1,000	1,600	2,640

- ▨ WORK AREA(S)
- ⊗ TYPE A CONSTRUCTION WARNING LIGHT
- ◇ WORKSITE ADDED PENALTY (G20-7) ONLY FOR INDOT ROADS
- ◇ "ROAD WORK AHEAD" (W20-1) OR "UTILITY WORK AHEAD" (W21-7)
- ◇ "ROAD WORK - XXX FT" (W20-1)
- ◇ "ONE LANE ROAD AHEAD" (W20-4)
- ◇ FLAGGER SIGN (W20-7)
- ◇ "END ROAD WORK" (G20-2)
- ⊢ BARRICADE TYPE III B
- TRAFFIC CONTROL DRUM
- TRAFFIC FLOW DIRECTION
- FLAGGER
- └ SIGN, FACING LEFT
- ┘ SIGN, FACING RIGHT



TEMPORARY FLAGGER OPERATION

SCALE: NONE



CONSTRUCTION SIGN PLACEMENT

SCALE: NONE

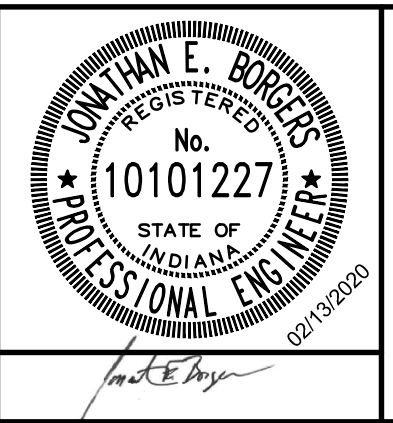
- NOTES:**
- DISTANCES SHOWN ARE APPROXIMATE. ADJUST SIGN FOR CURVES, HILLS, INTERSECTIONS, DRIVEWAYS, ETC TO IMPROVE SIGN VISIBILITY.
 - THE SPACING OF CHANNELIZING DEVICES SHOULD BE A DISTANCE IN FEET EQUAL TO THE SPEED LIMIT IN MPH WHEN USED FOR TAPER CHANNELIZATION, AND A DISTANCE IN FEET EQUAL TO 2.0 TIMES THE SPEED LIMIT IN MPH USED FOR TANGENT CHANNELIZATION.

ADVANCE WARNING SIGN AND FLAGGER OPERATION SPACING
SCALE: NONE

TRAFFIC CONTROL LEGEND
SCALE: NONE

Drawing: J:\Remington\Projects\218619 Remington Mtg America Park WaterCAD 04-001\DWG\Sheets\218619-TP.dwg | Layout: TPI | Plotter: 02/12/20 @ 09:45:34 | LastSavedBy: Michelle

SCALE VERIFICATION	DRAWN BY	MR	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	LEP				
	APPROVED BY	JEB				
	ISSUE DATE					
	FEBRUARY 2020					
	PROJECT NUMBER					
	218619-04-001					

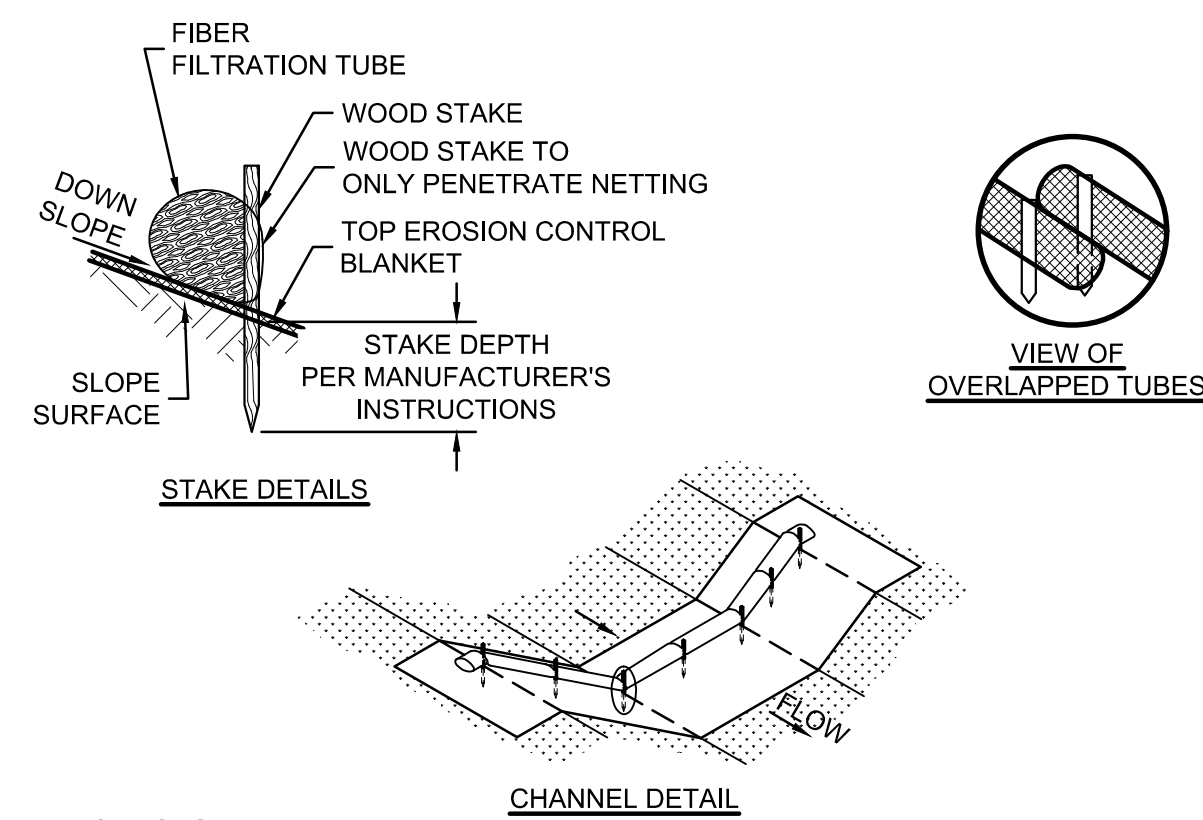


REMINGTON / WHITE COUNTY WATER MAIN EXTENSION - PHASE I

TOWN OF REMINGTON, INDIANA

MAINTENANCE OF TRAFFIC PLAN AND DETAILS

SHEET NO.	22
TOTAL SHEETS	24

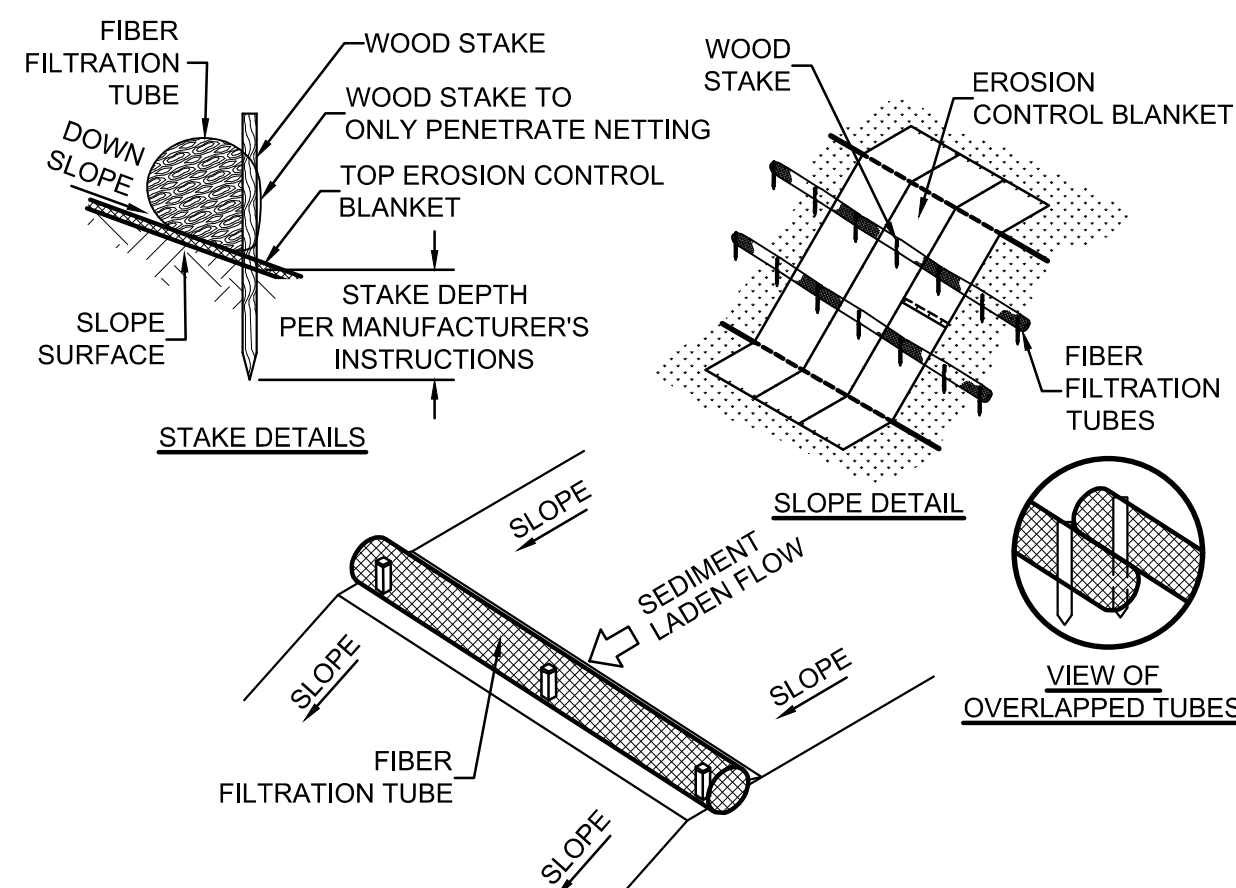


APPLICATIONS:
 1. DOWN-SLOPE OF A PROJECT LIMITS.
 2. ACROSS DITCHES OR SWALES.
 3. TO SLOW FLOWS AND FILTER SEDIMENTS.

INSTALLATION:
 1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 2. USE THE APPROPRIATE SIZE, LENGTH AND DISTANCE BETWEEN TUBES AS SPECIFIED BY THE MANUFACTURER.
 3. ENTRENCH PER MANUFACTURER'S INSTRUCTIONS.

MAINTENANCE:
 1. REMOVE ALL ACCUMULATED SEDIMENT WHEN IT REACHES 1/4 THE HEIGHT OF THE TUBE.
 2. REPAIR ERODED AND DAMAGED AREAS.
 3. IF PONDING BECOMES EXCESSIVE DUE TO REDUCED FILTERING CAPACITY, REMOVE THE TUBE AND EITHER RECONSTRUCT OR REPLACE WITH NEW PRODUCT.
 4. INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.

FIBER FILTRATION TUBES - CHANNEL
 SCALE: NONE

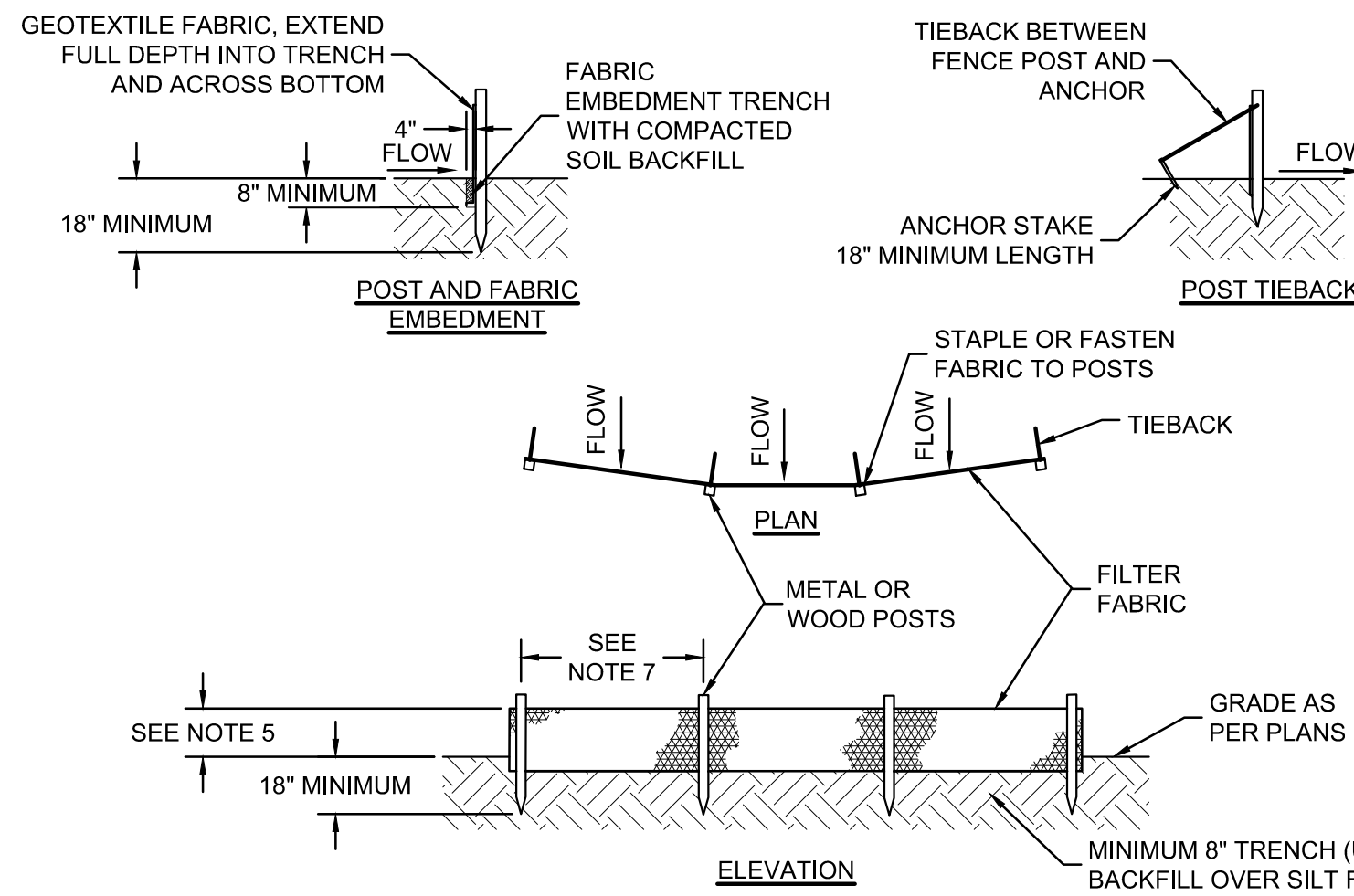


APPLICATIONS:
 1. TOP OF SLOPES.
 2. AT PROJECT PERIMETER.

INSTALLATION:
 1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 2. USE THE APPROPRIATE SIZE, LENGTH AND DISTANCE BETWEEN TUBES AS SPECIFIED BY THE MANUFACTURER.
 3. ENTRENCH PER MANUFACTURER'S INSTRUCTIONS.

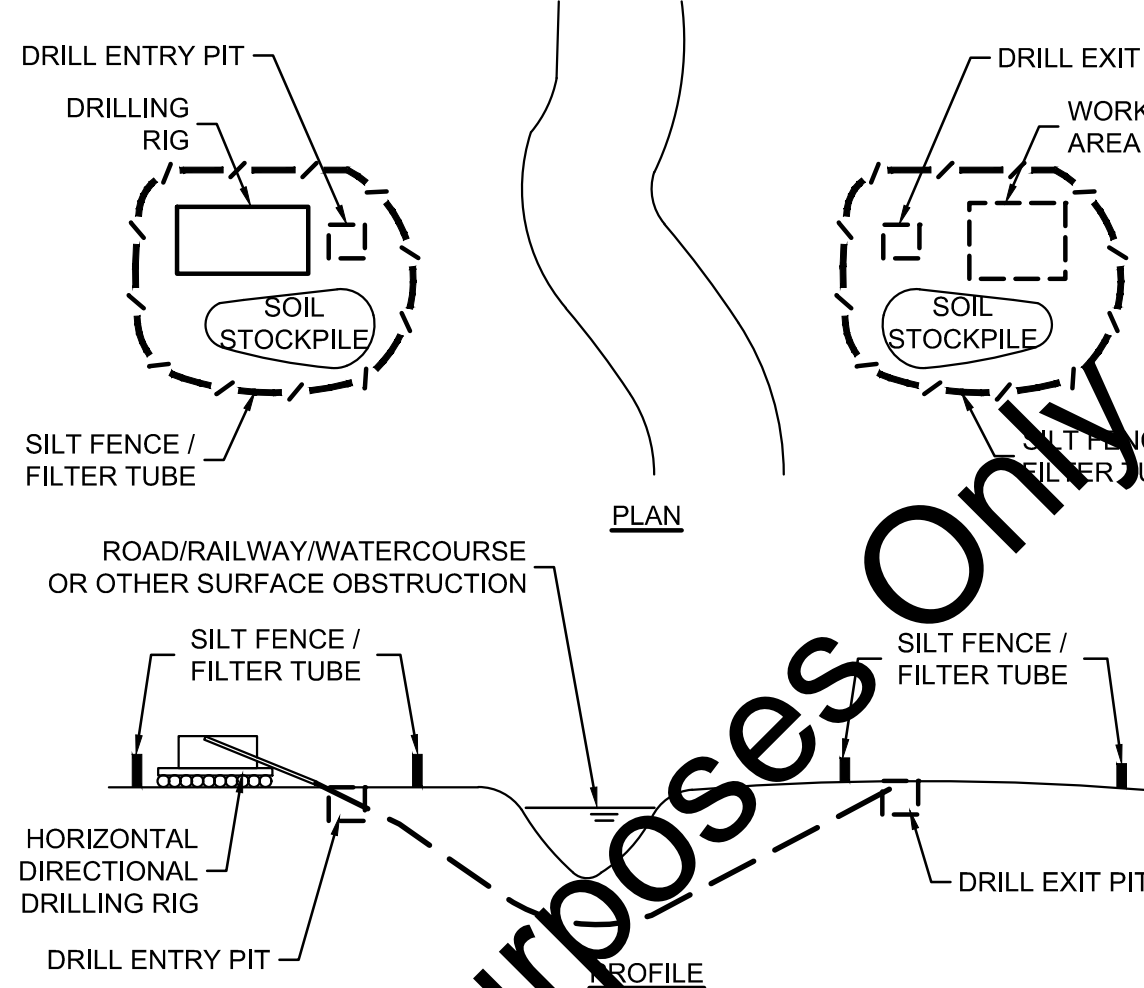
MAINTENANCE:
 1. REMOVE ALL ACCUMULATED SEDIMENT WHEN IT REACHES 1/4 THE HEIGHT OF THE TUBE.
 2. REPAIR ERODED AND DAMAGED AREAS.
 3. IF PONDING BECOMES EXCESSIVE DUE TO REDUCED FILTERING CAPACITY, REMOVE THE TUBE AND EITHER RECONSTRUCT OR REPLACE WITH NEW PRODUCT.
 4. INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.

FIBER FILTRATION TUBES - SLOPE
 SCALE: NONE



NOTES:
 1. SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF WOVEN OR NON-WOVEN GEOTEXTILE FABRIC AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS:
 a. TEXTILE STRENGTH AT 20% (MAXIMUM) ELONGATION, PER ASTM D4632.
 b. WOVEN EXTRA STRENGTH - 50 LB/LINEAR INCH (MINIMUM), NON-WOVEN EXTRA STRENGTH - 70 LB/INCH (MINIMUM).
 c. WOVEN STANDARD STRENGTH - 30 LB/LINEAR INCH (MINIMUM), NON-WOVEN STANDARD STRENGTH - 50 LB/INCH (MINIMUM).
 d. APPARENT OPENING SIZE (AOS) (U.S. SIEVE) - NO. 30 PARTICLE SIZE OF 0.6 mm (MAXIMUM), ASTM D4751.
 e. PERMITTIVITY - 0.05 S⁻¹ (MAXIMUM), ASTM D4491.
 2. POSTS FOR SILT FENCES SHALL BE EITHER 2"x2" SQUARE WOOD OR EQUIVALENT METAL POSTS WITH A MINIMUM LENGTH OF 5'. METAL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM.
 3. ANCHOR STAKES FOR SILT FENCES SHALL BE 1"x2" WOOD (PREFERRED) OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 18".
 4. WIRE FENCE REINFORCEMENT FOR SILT FENCES USING STANDARD STRENGTH FILTER CLOTH SHALL BE A MINIMUM OF 42" IN HEIGHT, A MINIMUM OF 14 GAUGE, AND SHALL HAVE A MAXIMUM MESH SPACING OF 6".
 5. THE HEIGHT OF THE BARRIER SHALL BE A MINIMUM OF 18" AND A MAXIMUM OF 30".
 6. THE FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER FABRIC SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6" OVERLAP, AND SECURELY SEALED.
 7. POSTS SHALL BE SPACED A MAXIMUM OF 6' APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 18"). WHEN STANDARD STRENGTH FABRIC IS USED WITH THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 8".
 8. THE SPACING OF TIEBACKS SHALL EQUAL THE SPACING OF THE POSTS. ADDITIONAL POST DEPTH OR TIEBACKS MAY BE REQUIRED IN UNSTABLE SOILS.
 9. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4" WIDE AND A MINIMUM OF 8" DEEP ALONG THE LINE OF POSTS AND TIEBACKS.
 10. WHEN STANDARD STRENGTH FILTER FABRIC IS USED WITH A WIRE MESH SUPPORT FENCE IT SHALL BE FASTENED TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY 1" WIRE STAPLES, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2" AND SHALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL GROUND SURFACE.
 11. THE STANDARD STRENGTH FILTER FABRIC, WITHOUT A WIRE MESH SUPPORT FENCE, SHALL BE STAPLED OR RINGED TO THE FENCE, AND A MINIMUM 8" OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL GROUND SURFACE. DO NOT STAPLE FILTER FABRIC TO EXISTING TREES.
 12. WHEN EXTRA STRENGTH FILTER FABRIC OR BURLAP AND POST SPACING IS LESS THAN THE MAXIMUM SPACING OF 6", THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED.
 13. BACKFILL THE TRENCH AND COMPACT THE SOIL OVER THE FILTER FABRIC.
 14. REMOVE SILT FENCES WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
 15. SILT FENCE SHALL NOT BE USED AS A DIVERSION AND SHALL NOT BE INSTALLED ACROSS A STREAM CHANNEL, DITCH, SWALE, ETC.

SILT FENCE
 SCALE: NONE

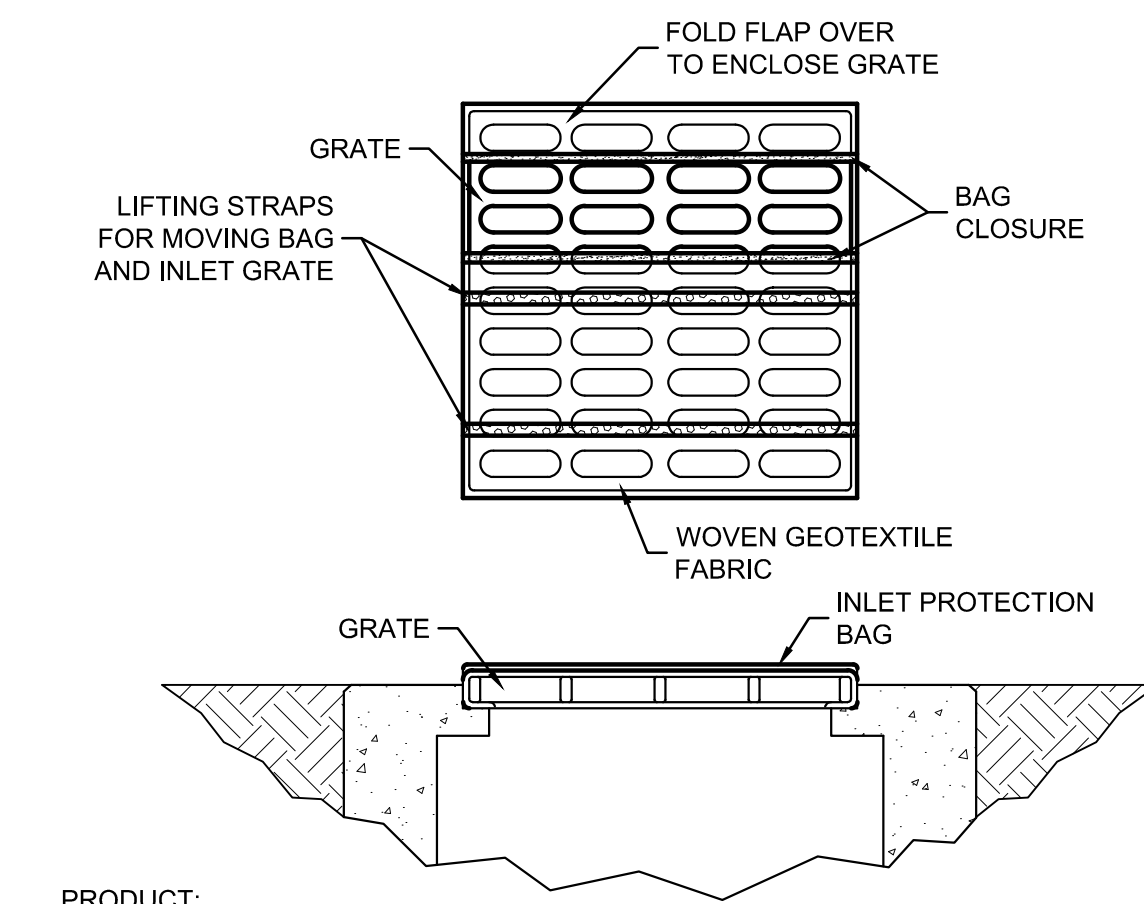


NOTES:
 1. INSTALL SILT FENCE/FILTER TUBE PERIMETER PRIOR TO ANY EXCAVATION.
 2. FILTER WATER FROM BORE PIT DEWATERING, AND DO NOT DIRECTLY DISCHARGE TO ANY DITCH, STREAM, WETLAND OR STORM WATER CONVEYANCE. REFER TO PUMPING BAG DETAIL.
 3. PLACE SOIL STOCKPILES WITHIN THE SILT FENCE/FILTER TUBE PERIMETER BOUNDARY.
 4. SOIL FROM STOCKPILES SHALL BE USED FOR BACKFILL OR DISPOSED OF PROPERLY.
 5. RESEED WITHIN 24 HOURS OF ALL DISTURBED SOIL SURFACES.
 6. ENVIRONMENTAL PROTECTION TO BE PROVIDED AS NECESSARY TO CONTAIN ANY DRILLING FLUID SPILLS.

MAINTENANCE:
 1. INSPECT SILT FENCE/FILTER TUBE PERIMETER AFTER EACH RAINFALL, AND REPAIR OR REPLACE IMMEDIATELY.
 2. REMOVE SEDIMENT DEPOSITS FROM THE SILT FENCE/FILTER TUBE PERIMETER PROTECTION AFTER STORM EVENTS.

HORIZONTAL DIRECTIONAL DRILLING
 SCALE: NONE

MAINTENANCE:
 1. INSPECT AFTER EACH RAINFALL AND DAILY DURING PROLONGED RAINFALL. INSPECT AT LEAST ONCE EVERY 7 CALENDAR DAYS.
 2. REPLACE OR REPAIR FABRIC IMMEDIATELY IF IT DECOMPOSES OR IS INEFFECTIVE.
 3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY HALF THE HEIGHT OF THE BARRIER.
 4. SPREAD ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED AND DRESS TO CONFORM WITH THE FINISHED GRADING.



PRODUCT:
 1. DANDY BAG, OR APPROVED EQUAL.

INSTALLATION:
 1. THE EMPTY INLET PROTECTION BAG SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END.
 2. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE.
 3. HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME.

MAINTENANCE:
 1. REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT.
 2. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE INLET PROTECTION BAG AS NEEDED.
 3. INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND ONCE EVERY 7 CALENDAR DAYS.

INLET PROTECTION BAG
 SCALE: NONE

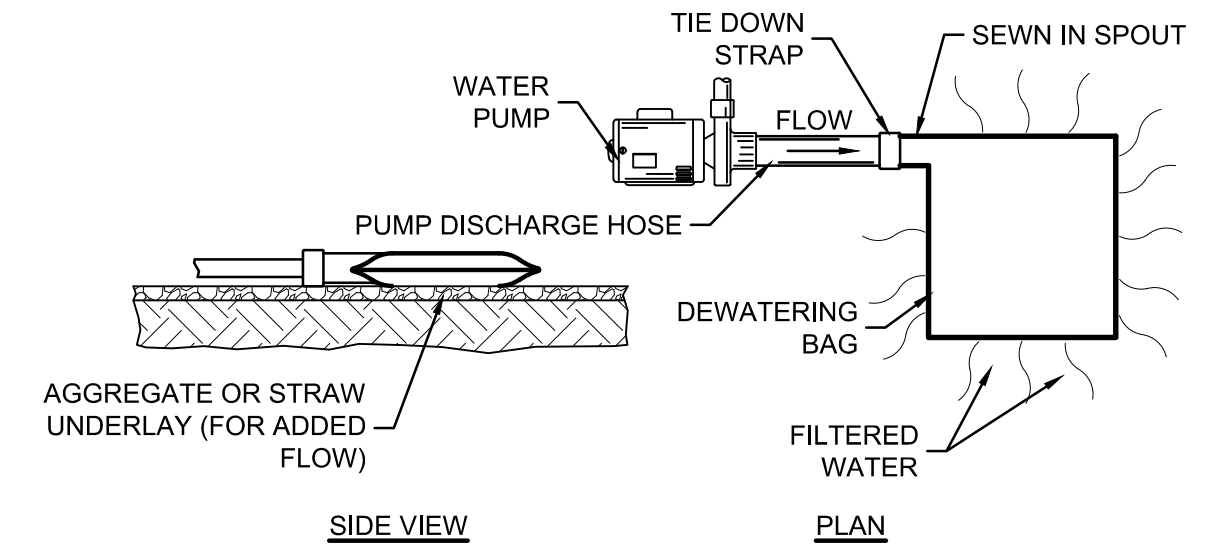
SEASONAL SOIL PROTECTION CHART

STABILIZATION PRACTICE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
PERMANENT SEEDING						A						
DORMANT SEEDING		B									B	
TEMPORARY SEEDING			C									
SODDING						F						
MULCHING								G				

- A. = KENTUCKY BLUEGRASS 40 LB/ACRE
- B. = KENTUCKY BLUEGRASS 210 LB/ACRE
- C. = SPRING OATS 100 LB/ACRE (1" PLANTING DEPTH)
- D. = WHEAT OR RYE 150 LB/ACRE (1" - 1.5" PLANTING DEPTH)
- E. = ANNUAL RYEGRASS 40 LB/ACRE (1/4" PLANTING DEPTH)
- F. = SOD
- G. = ANCHORED STRAW/HAY (2 TONS/ACRE) OR WOOD FIBER/CELLULOSE (1 TON/ACRE)

NOTES:
 1. IRRIGATION NEEDED DURING MAY THROUGH SEPTEMBER.
 2. IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD.
 3. ANCHORED MULCH IS REQUIRED FOR PERMANENT, DORMANT AND TEMPORARY SEEDING.
 4. OPTIMUM SEEDING DATES PROVIDED. DATES MAY BE EXTENDED OR SHORTENED BASED ON PROJECT LOCATION.
 5. SEED MIXTURES PROVIDED FOR LAWNS AND HIGH MAINTENANCE AREAS.

MAINTENANCE:
 1. INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.
 2. CHECK FOR EROSION AND MOVEMENT OF MULCH AND REPAIR IMMEDIATELY.
 3. MONITOR FOR EROSION DAMAGE AND ADEQUATE COVER (70% DENSITY).
 4. RESEED, FERTILIZE OR APPLY MULCH WHERE NECESSARY.



MECHANICAL PROPERTIES	TEST METHOD	UNITS	INDUSTRY STANDARD
GRAB TENSILE STRENGTH	ASTM D4632	kN (LB)	0.9 (205) X 0.9 (205)
GRAB TENSILE ELONGATION	ASTM D4632	%	50 X 50
PUNCTURE STRENGTH	ASTM D4833	kN (LB)	0.58 (130)
MULLEN BURST STRENGTH	ASTM D3786	kPa (PSI)	2618 (380)
TRAPEZOID TEAR STRENGTH	ASTM D4533	kN (LB)	0.36 (80) X 0.36 (80)
UV RESISTANCE	ASTM D4355	%	70
APPARENT OPENING SIZE	ASTM D4751	Mm (US STD SIEVE)	0.180 (80)
FLOW RATE	ASTM D4491	1/MIN/M ² (GAL/MIN/FT ²)	3866 (95)
PERMITTIVITY	ASTM D4491	S ⁻¹	1.2

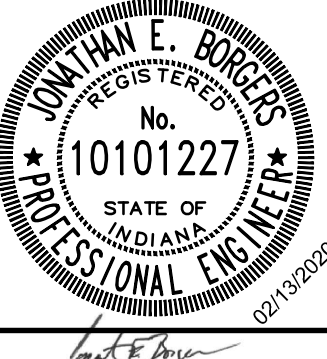
MAINTENANCE:
 1. DURING THE ACTIVE DEWATERING PROCESS, INSPECTION OF THE PUMPING BAG SHOULD BE REVIEWED FREQUENTLY. SPECIAL ATTENTION SHOULD BE PAID TO THE BUFFER AREA FOR ANY SIGN OF EROSION AND CONCENTRATION OF FLOW. OBSERVE WHERE POSSIBLE THE VISUAL QUALITY OF THE EFFLUENT AND DETERMINE IF ADDITIONAL TREATMENT CAN BE PROVIDED.
 2. DISPOSE OF ACCUMULATED SEDIMENT REMOVED DURING PUMPING OPERATIONS IN CONFORMANCE WITH THE SPECIFICATIONS.
 3. REPLACE THE BAG OR DISPOSE OF SILT WHEN HALF FULL OF SEDIMENT OR WHEN SEDIMENT HAS REDUCED THE FLOW RATE TO AN IMPRACTICAL RATE.
 4. DEWATERING BAG TO BE SIZED APPROXIMATELY TO ACCOMMODATE PUMP CAPACITY.

SOURCE:
 KRISTAR
 DANDY DEWATERING BAG
 SEDCATCH

PUMPING BAG
 SCALE: NONE

Drawing: J:\Remington\Projects\218619 Remington Main Water CAD 04-001\DWG\Sheets\218619-04-001.dwg | Layout: CD | Printed: 02/13/20 @ 09:45:38 | LastSavedBy: MichelleE

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	APPROVED BY	JEB				
	ISSUE DATE	FEBRUARY 2020				
	PROJECT NUMBER	218619-04-001				


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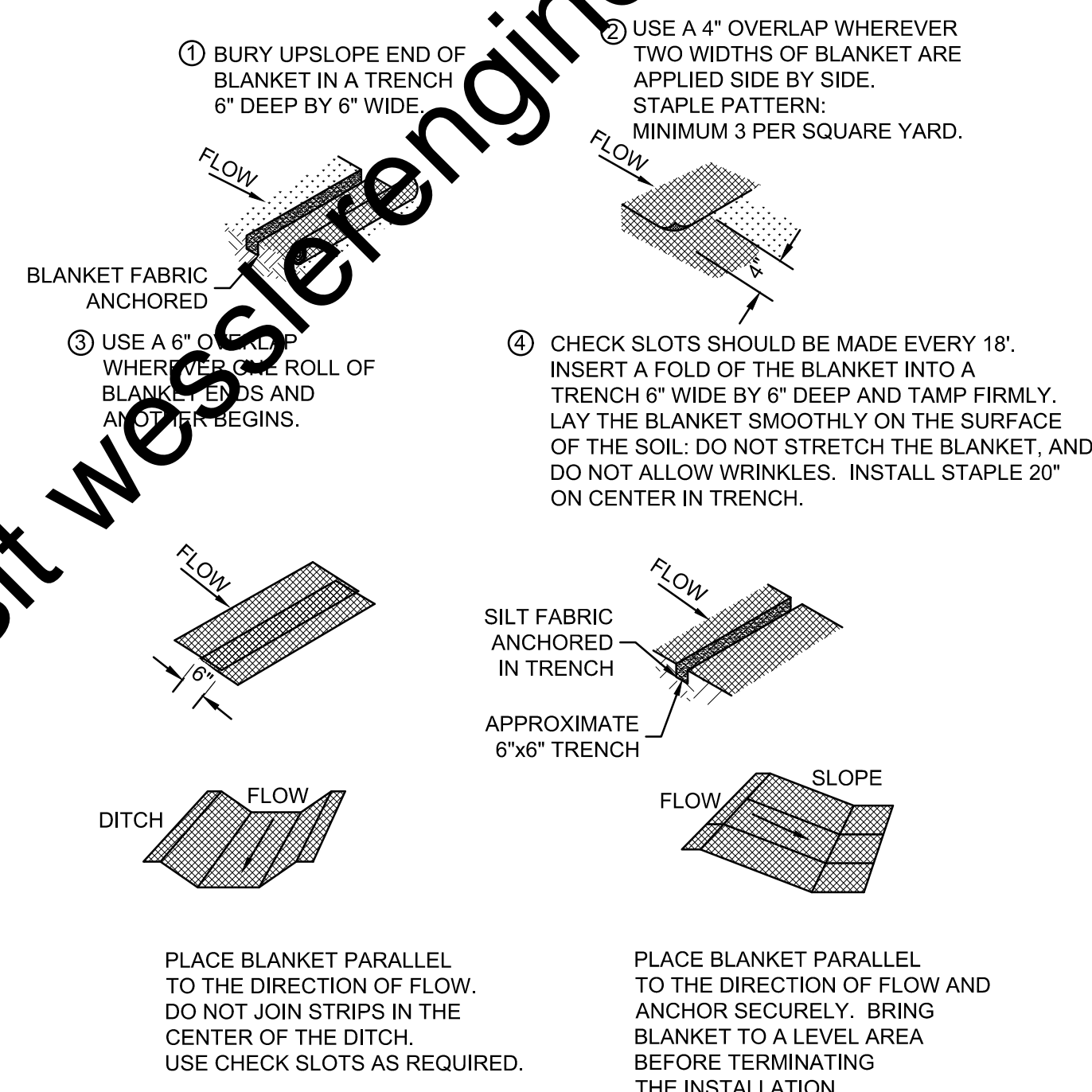
REMINGTON / WHITE COUNTY WATER MAIN EXTENSION - PHASE I
 TOWN OF REMINGTON, INDIANA
EROSION CONTROL DETAILS

SHEET NO.
23
 TOTAL SHEETS
24

Drawing: J:\Remington\Projects\218619-04-001\DWG\Sheets\218619-04-001-MS.dwg | Layout: CD2 | Printed: 02/13/20 @ 09:45:39 | LastSavedBy: MichelleE

EROSION CONTROL SCHEDULE	
CONSTRUCTION ACTIVITY	SCHEDULE CONSIDERATION
NOTIFY IDEM RULE 5 COORDINATOR (317-233-1864) AND THE STORMWATER AUTHORITY WITHIN 48 HOURS PRIOR TO STARTING CONSTRUCTION. POST THE CONTACT INFORMATION AT THE CONSTRUCTION ENTRANCE. INCLUDE A COPY OF THE NOTICE OF INTENT (NOI) AND THE ONSITE PERSON WHO IS RESPONSIBLE FOR IMPLEMENTING THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE SWPPP SHOULD BE ONSITE AND WEEKLY SITE INSPECTION REPORTS MUST BE AVAILABLE WITHIN 48 HOURS OF REQUEST.	WITHIN 48 HOURS PRIOR TO STARTING CONSTRUCTION.
CONSTRUCTION ACCESS - ENTRANCE TO SITE, CONSTRUCTION ROUTES, AREAS DESIGNATED FOR EQUIPMENT PARKING OR MATERIAL STAGING.	THIS IS THE FIRST LAND-DISTURBING ACTIVITY. AS SOON AS CONSTRUCTION BEGINS, STABILIZE ANY BARE AREAS WITH AGGREGATE AND TEMPORARY VEGETATION.
SEDIMENT TRAPS AND BARRIERS - BASIN TRAPS, SILT FENCE.	AFTER CONSTRUCTION IS ACCESSED, BASINS SHALL BE INSTALLED, WITH THE ADDITION OF MORE TRAPS AND BARRIERS AS NEEDED DURING GRADING.
RUNOFF CONTROL - DIVERSIONS, PERIMETER PROTECTION, CHECK DAMS, OUTLET PROTECTION.	RUNOFF CONTROL PRACTICES SHALL BE INSTALLED AFTER THE INSTALLATION OF SEDIMENT TRAPS AND BEFORE LAND GRADING. ADDITIONAL RUNOFF CONTROL MEASURES MAY BE INSTALLED DURING GRADING.
RUNOFF CONVEYANCE SYSTEM - STABILIZE STREAM BANKS, STORM DRAINS, CHANNELS, INLET AND OUTLET PROTECTION, SLOPE DRAINS.	AS NECESSARY, STABILIZE STREAM BANKS AND SIDE SLOPES OF RUNOFF SYSTEMS AS SOON AS POSSIBLE. USE EROSION CONTROL BLANKETS OR SLOPE DRAINS TO PREVENT EROSION. INSTALL INLET PROTECTION TO PREVENT SEDIMENTS FROM ENTERING STORM DRAINAGE SYSTEMS. PROTECT STORM OUTLETS TO PREVENT EROSION.
LAND CLEARING AND GRADING - SITE PREPARATION (CUTTING, FILLING, AND GRADING, SEDIMENT TRAPS, BARRIERS, DIVERSIONS, DRAINS, SURFACE ROUGHENING).	IMPLEMENT CLEARING AND GRADING AFTER INSTALLATION OF SEDIMENT TRAPS AND RUNOFF CONTROL MEASURES, AND INSTALL ADDITIONAL CONTROL MEASURES AS GRADING CONTINUES. CLEAR BORROW AND DISPOSAL AREAS AS NEEDED, AND MARK TREES AND BUFFER AREAS FOR PRESERVATION.
SURFACE STABILIZATION - TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, RIPRAP, EROSION CONTROL BLANKET.	APPLY TEMPORARY OR PERMANENT STABILIZING MEASURES IMMEDIATELY TO ALL DISTURBED AREAS WHERE WORK HAS BEEN EITHER COMPLETED OR DELAYED.
CONSTRUCTION - STRUCTURES, UTILITIES, PAVING.	DURING CONSTRUCTION, INSTALL ANY EROSION AND SEDIMENTATION CONTROL MEASURES THAT ARE NEEDED.
LANDSCAPING AND FINAL STABILIZATION - TOPSOILING, TREES AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIPRAP.	THIS IS THE FINAL CONSTRUCTION PHASE. STABILIZE ALL DISTURBED AREAS, INCLUDING BORROW AND SPOIL AREAS, AND REMOVE ALL TEMPORARY CONTROL MEASURES. A UNIFORM DENSITY OF 70% VEGETATED COVER IS REQUIRED.

EROSION CONTROL SCHEDULE
SCALE: NONE

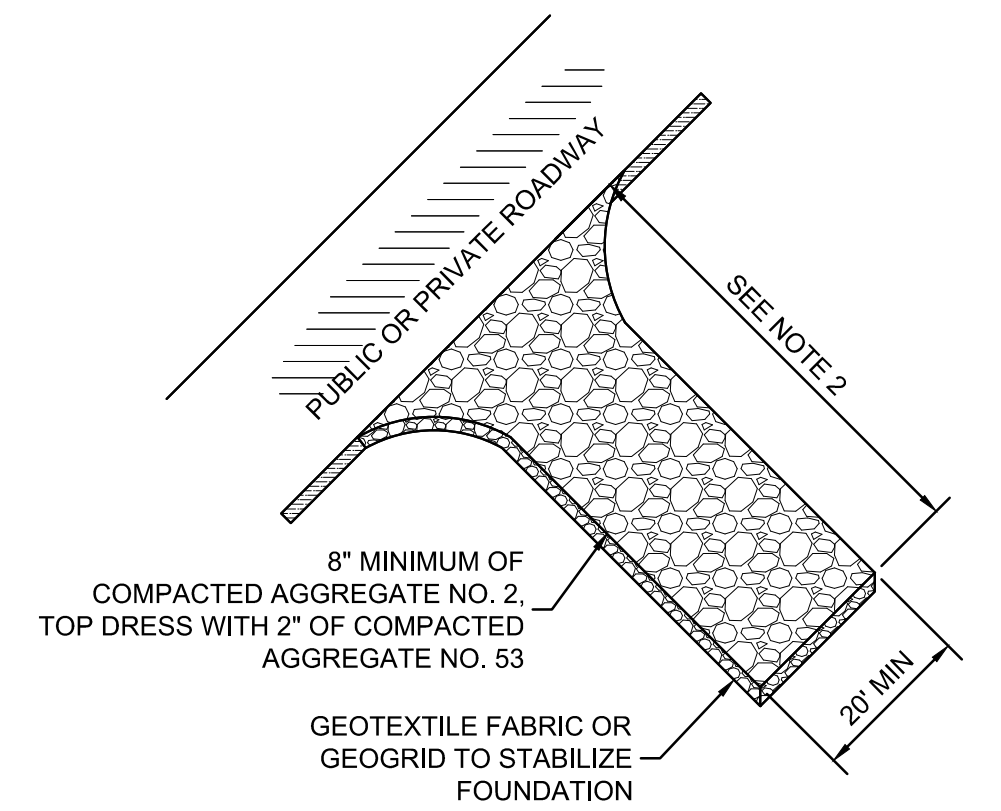


PRODUCT:
1. NORTH AMERICAN GREEN SC150, OR EQUAL.

NOTES:
1. PROTECT THE SLOPES WITH AN EROSION CONTROL BLANKET WHERE CONSTRUCTION DISTURBS SLOPES EQUAL OR STEEPER THAN 3:1.

MAINTENANCE:
1. INSPECT FOR EROSION AFTER EACH STORM EVENT DURING VEGETATION ESTABLISHMENT, AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.
2. IF ANY AREAS SHOW EROSION, PULL BACK THAT PORTION OF THE BLANKET, ADD SOIL, RESEED, RELAY AND STAPLE THE BLANKET.
3. CHECK AREAS PERIODICALLY AFTER VEGETATION ESTABLISHMENT.

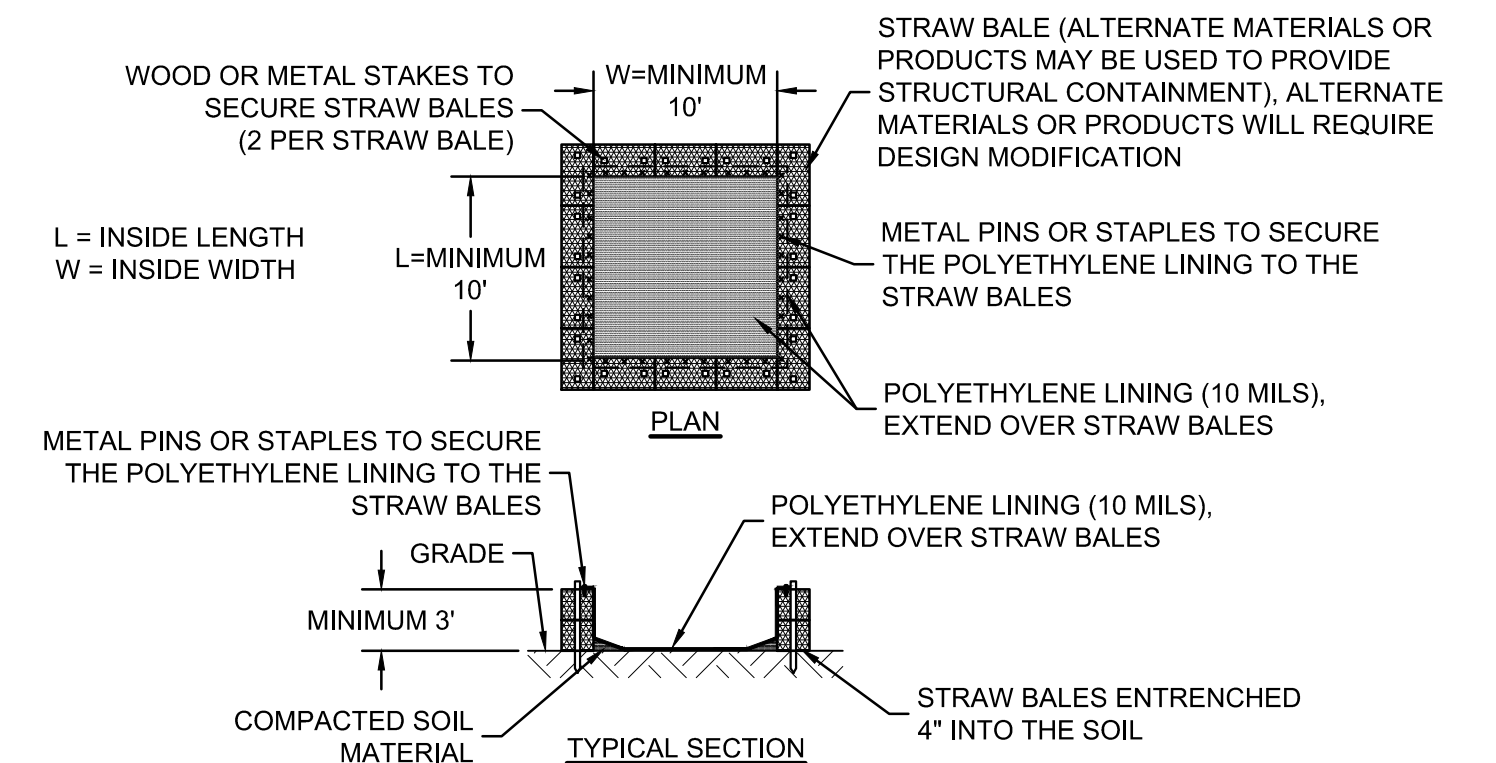
EROSION CONTROL BLANKET
SCALE: NONE



NOTES:
1. PLACE CONSTRUCTION ENTRANCE AS SHOWN ON THE PLANS AND AT ALL TEMPORARY CONSTRUCTION DRIVES THAT ARE INSTALLED.
2. FOR LARGE SITES (2 ACRES OR LARGER) THE MINIMUM LENGTH IS 150'. FOR SMALLER SITES (LESS THAN 2 ACRES) THE MINIMUM LENGTH IS 50'.
3. PROVIDE CULVERT OR OTHER METHODS AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE.

MAINTENANCE:
1. INSPECT DAILY AND REPLACE DISPLACED STONE.
2. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED ONTO ADJACENT ROADWAY.
3. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
4. AT COMPLETION OF PROJECT COMPLETELY REMOVE AND RESTORE SITE TO ORIGINAL CONDITIONS, OR AS APPLICABLE USE FOR BASE OF NEW PERMANENT DRIVE, MAINTAINING DESIGN ELEVATIONS AND SECTION.

CONSTRUCTION ENTRANCE
SCALE: NONE



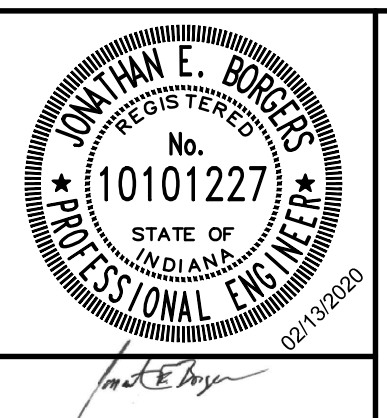
NOTES:
1. LOCATE WASHOUTS AT LEAST 50' FROM ANY CREEKS, WETLANDS, DITCHES, KARST FEATURES, OR STORM DRAIN/CONVEYANCES.

WASHOUT PROCEDURES:
1. DO NOT LEAVE EXCESS MUD IN THE CHUTES OR HOPPER AFTER POURING CONCRETE. MAKE EVERY EFFORT TO EMPTY THE CHUTE AND HOPPER AT THE POUR. THE LESS MATERIAL LEFT IN THE CHUTES AND HOPPER, THE QUICKER AND EASIER THE CLEANOUT. SMALL AMOUNTS OF EXCESS CONCRETE (NOT WASHOUT WATER) MAY BE DISPOSED OF IN AREAS THAT WILL NOT FLOW TO AN AREA THAT IS TO BE PROTECTED.
2. SCRAPE AS MUCH MATERIAL FROM THE CHUTES AS POSSIBLE BEFORE WASHING THEM. USE NON-WATER CLEANING METHODS TO MINIMIZE THE CHANCE FOR WASTE TO FLOW OFF SITE.
3. STOP WASHING OUT IN AN AREA IF YOU OBSERVE WATER RUNNING OFF THE DESIGNATED AREA OR IF THE WATER IS NOT BEING CONTAINED WITHIN THE WASHOUT AREA.
4. DO NOT BACK FLUSH EQUIPMENT AT THE PROJECT SITE.
5. DO NOT USE ADDITIVES WITH WASH WATER.
6. DO NOT WASH OUT OR DRAIN WASTE WATERS TO STORM DRAINS, WETLANDS, STREAMS, RIVERS, CREEKS, DITCHES OR STREETS.

MAINTENANCE:
1. MAINTENANCE REQUIREMENTS PROVIDED IN SPECIFICATIONS.

CONCRETE WASHOUT
SCALE: NONE

SCALE VERIFICATION BAR IS ONE INCH LONG ON ORIGINAL DRAWING	DRAWN BY	MR. JEB	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
	CHECKED BY	MR. JEB				
	APPROVED BY	MR. JEB				
	ISSUE DATE	FEBRUARY 2020				
	PROJECT NUMBER	218619-04-001				



REMINGTON / WHITE COUNTY WATER MAIN EXTENSION - PHASE I

TOWN OF REMINGTON, INDIANA

EROSION CONTROL DETAILS

SHEET NO.	24
TOTAL SHEETS	24