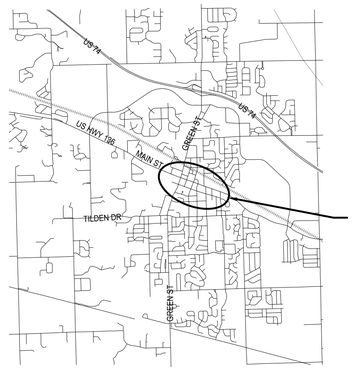
COLLEGE AVE & MAIN ST IMPROVEMENTS
DIVISION 1: WATER MAIN REPLACEMENT
FOR THE
TOWN OF BROWNSBURG, INDIANA



BROWNSBURG, IN
VICINITY MAP
SCALE: NONE

STATE LOCATION MAP
SCALE: NONE

TOWN OF Brownsburg

DRAWINGS PREPARED FOR:

TOWN OF BROWNSBURG
DEBBIE COOK, TOWN MANAGER
SHAWN PABST, DIRECTOR OF CAPITAL PROJECTS AND FIELD OPERATIONS
ANN HATHAWAY, TOWN CLERK-TREASURER
KATHY DILLON, WATER UTILITY DIRECTOR

TOWN COUNCIL
TRAVIS TSCHAENN, TOWN COUNCIL PRESIDENT
BEN LACEY, TOWN COUNCIL VICE PRESIDENT
CHRIS WORLEY, TOWN COUNCIL MEMBER
BRIAN JESSEN, TOWN COUNCIL MEMBER
MATT SIMPSON, TOWN COUNCIL MEMBER

SEPTEMBER 2023

WESSLER ENGINEERING
More than a Project™
INDIANAPOLIS
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PROJECT NO. 256822-04-001

ANDREW D. GORDON
REGISTERED ENGINEER STATE OF INDIANA NO. 10809017

BEST AVAILABLE ORTHO IMAGERY FROM INDIANA STATE MAP.

LOCATION AND SCOPE OF WORK PLAN

0 100 200 400 FT
1" = 200'

HORIZONTAL AND VERTICAL CONTROL INFORMATION

NOTES:
1. A FIELD SURVEY WAS PERFORMED IN SEPTEMBER AND OCTOBER 2022.
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.
5. A LEVEL LOOP WAS PERFORMED ON THE CONTROL POINTS AND TBMS.

BENCHMARK DESCRIPTION:
1. TBM NO. 15 - CUT 'X' IN SOUTHEAST BOLT ON MAST ARM AT THE NORTHWEST CORNER OF MAIN STREET AND GREEN STREET.
   EL 880.68
2. TBM NO. 16 - CUT 'X' IN SOUTH BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF MAIN STREET AND JEFFERSON STREET.
   EL 880.41
3. TBM NO. 17 - CUT 'X' IN CURB INLET NEAR INLET ON THE NORTH SIDE OF MAIN STREET AT THE INTERSECTION OF SOUTH GRANT STREET.
   EL 884.61
4. TBM NO. 18 - CUT 'X' IN SOUTH BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF MAIN STREET AND ODELL STREET.
   EL 882.22
5. TBM NO. 19 - CUT 'X' IN NORTH BOLT OF FIRE HYDRANT AT THE SOUTHEAST CORNER OF COLLEGE AVENUE AND GREEN STREET.
   EL 872.95

CONTROL POINTS				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP 1	1674311.00	3145228.09	879.24	CP CUT X
CP 2	1674250.63	3145632.37	877.87	CP PRE5
CP 3	1673968.99	3145544.78	879.06	CP PMAG
CP 4	1673747.54	3145502.55	878.33	CP PRE5
CP 5	1674025.60	3146071.90	877.94	CP PRE5
CP 6	1673911.96	3146393.45	881.64	CP PRE5
CP 7	1673785.17	3146892.37	884.89	CP PMAG
CP 8	1673552.84	3147391.94	885.11	CP PRE5
CP 9	1673417.05	3147986.59	879.38	CP PRE5
CP 10	1672898.03	3148033.48	878.02	CP PRE5
CP 11	1673200.79	3146964.88	882.62	CP PRE5
CP 12	1673210.18	3147101.43	882.95	CP PRE5
CP 13	1673879.00	3145024.65	871.97	CP PMAG
CP 14	1673981.32	3144809.35	875.99	CP PMAG

DRAWING INDEX

SCALE VERIFICATION	DRAWN BY	MRE
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	MAP
	APPROVED BY	ADG
	ISSUE DATE	SEPTEMBER 2023
	PROJECT NUMBER	256822-04-001

NO.	DATE	INITIALS	REVISION DESCRIPTIONS

ANDREW D. GORDON REGISTERED No. 10809017 STATE OF INDIANA PROFESSIONAL ENGINEER 09/01/2023

WESSLER ENGINEERING
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DIVISION 1: WATER MAIN REPLACEMENT

TOWN OF BROWNSBURG, INDIANA

LOCATION PLAN AND DRAWING INDEX

SHEET NO. **02**

TOTAL SHEETS 19

EXISTING FEATURES LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
BM	BENCH MARK	CB	CISTERN		EASEMENT - CONSTRUCTION/PERMANENT
TBM	TEMPORARY BENCH MARK	EM	ELECTRIC METER		LOT BOUNDARY
SB-01	SOIL BORING LOCATION	AC	AIR CONDITIONING UNIT	PL	PROPERTY BOUNDARY
	SECTION CORNER	XXX	UTILITY RISER (DEFINED BY UTILITY)		RIGHT-OF-WAY - TEMPORARY/PERMANENT
	DRILL HOLE IN CONCRETE/HARRISON MONUMENT	XXX	UTILITY PEDESTAL (DEFINED BY UTILITY)		SECTION BOUNDARY
CP	CONTROL POINT (SET/FOUND)		UTILITY MARKER (DEFINED BY UTILITY)		WETLANDS
MG	MAGNETIC NAIL (SET/FOUND)	J	JOINT POWER/TELEPHONE POLE	849	CONTOUR - INTERMEDIATE ELEVATION
BS	BOAT SPIKE (SET/FOUND)	L	LIGHT POLE	850	CONTOUR - INDEX ELEVATION
PK	PK NAIL (SET/FOUND)	LP	LIGHT ON POWER POLE	OHE OHE	OVERHEAD ELECTRIC
RS	RAILROAD SPIKE (SET/FOUND)	LJ	LIGHT ON JOINT POLE	OHC OHC	OVERHEAD CABLE TV
R/M	R/W MARKER - CONCRETE/GRANITE/STONE	P	POWER POLE	OHT OHT	OVERHEAD TELEPHONE
IP	IRON PIPE/IRON PIN/REBAR (WITH DIAMETER)	T	TELEPHONE POLE	UGC UGC	UNDERGROUND CABLE TV
BP	BRASS PLUG		LAMP POST	UGE UGE	UNDERGROUND ELECTRIC
C	CABLE TV MANHOLE		GUY ANCHOR	UGF UGF	UNDERGROUND FIBER OPTIC
E	ELECTRIC MANHOLE		GUY POLE OR STUB	G G G	GAS MAIN
G	GAS MANHOLE		CONTROLLER CABINET	DG DG	DIGESTER GAS
O	OTHER MANHOLE	FP	FLAG POLE	P P P	PETROLEUM MAIN
T	TELEPHONE MANHOLE		POST	UGT UGT	UNDERGROUND TELEPHONE
TEL	TELEPHONE VAULT		GROUND LIGHT	W W W	WATER MAIN
I	TRAFFIC MANHOLE	M	MAILBOX	W W W	WATER SERVICE
H	TRAFFIC HANDHOLE	M M	DOUBLE/MULTIPLE MAILBOX	FM FM	FORCEMAIN
W	WATER MANHOLE		MAST ARM POLE		GRAVITY SEWER PIPE
A	AIR RELEASE VALVE		TRAFFIC SIGNAL STRAIN POLE		PLANT CHLORINE PIPE
S	SANITARY SEWER MANHOLE		SIGNAL LOOP DETECTOR BOX		TOP OF BANK/TOE OF SLOPE
D	DRAINAGE/STORM SEWER MANHOLE		SIGNAL LOOP DETECTOR LOOP		CENTERLINE OF DITCH/SWALE/STREAM
CO	SANITARY SEWER CLEANOUT		SIGN - SINGLE POST	x x x x x x x x x	FENCE - FIELD
ST	SEPTIC TANK		SIGN - DOUBLE POST	o o o o o o o o o	FENCE - METAL
VV	VALVE VAULT		SIGN - RAILROAD SIGNAL	o o o o o o o o o	FENCE - WOOD
	BEEHIVE INLET	R/R	SIGN - RAILROAD CROSSING		GUARDRAIL
	CURB INLET		BUSH		STREAM
	DROP INLET		STUMP		TREE/BRUSH LINE
	CATCH BASIN		TREE - CONIFEROUS		
DS	DOWNSPOUT		TREE - DECIDUOUS		
GM	GAS METER		ROCK OUTCROP		
GV	GAS VALVE		SATELLITE		
GSV	GAS SERVICE VALVE	SPH	SPRINKLER CONTROL VALVE		
PV	PETROLEUM VALVE		WATER METER		
PSV	PETROLEUM SHUTOFF VALVE	WV	WATER VALVE		
MW	GAS STATION MONITORING WELL		WATER SERVICE VALVE		
GFC	GAS STATION FILL CAP	W	WATER WELL		
GW	NATURAL GAS WELL/STORAGE WELL	WW	WET WELL		
SP	SPRINKLER HEAD		FIRE HYDRANT		
	YARD HYDRANT		PROCESS VALVE		

*NOTE: THIS TABLE IS A LISTING OF TYPICAL EXISTING SYMBOLS AND MAY NOT INCLUDE ALL EXISTING SYMBOLS FOUND WITHIN THIS PLAN SET. ANY UNLISTED 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.

TABLE OF ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	IPS	IRON PIPE SIZE
ALUM	ALUMINUM	ISPC	INDIANA STATE PLANE COORDINATE
APP	APPARENT	LB	POUND(S)
APPROX	APPROXIMATE(LY)	LF	LINEAR FEET
ASPH	ASPHALT	LN	LANE
ASSOC	ASSOCIATES	LS	LIFT STATION
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	MA EX	MATCH EXISTING
AVE	AVENUE	MJ	MECHANICAL JOINT
AVG	AVERAGE	MATL	MATERIAL
BLDG	BUILDING	MAX	MAXIMUM
BLVD	BOULEVARD	MH	MANHOLE
BM	BENCHMARK	MIN	MINIMUM
CO	CLEANOUT	MISC	MISCELLANEOUS
CI	CAST IRON	MNFR	MANUFACTURER
CL	CENTER LINE	N	NORTHING, NORTH
CMA	COLD MIX ASPHALT	N.I.C.	NOT IN CONTRACT
CMP	CORRUGATED METAL PIPE	NGS	NATIONAL GEODETIC SURVEY
CMU	CONCRETE MASONRY UNIT	NO.	NUMBER
CONC	CONCRETE	OC	ON CENTER
CONT	CONTINUOUS	OD	OUTSIDE DIAMETER
CNR	CORNER	PC	POINT OF CURVE (BEGIN CURVE)
CP	CONTROL POINT	POLY	POLYETHYLENE
CPP	CORRUGATED PLASTIC PIPE	PI	POINT OF INTERSECTION
CR STN	CRUSHED STONE	POT	POINT ON TANGENT
CYD	CUBIC YARD	PT	POINT OF TANGENT (END CURVE)
D	DEPTH	PSI	POUNDS PER SQUARE INCH
DI	DUCTILE IRON	PT	POINT
DI MJ	DUCTILE IRON MECHANICAL JOINT	PVC	POLYVINYL CHLORIDE
DBL	DOUBLE	R	RADIUS
DIA	DIAMETER	ROW	RIGHT-OF-WAY
DIP	DUCTILE IRON PIPE	RCP	REINFORCED CONCRETE PIPE
DIPS	DUCTILE IRON PIPE SIZE	RD	ROAD
DR	DRIVE	S	SOUTH
E	EASTING, EAST	SR	STATE ROUTE
EF	EACH FACE	SST	STAINLESS STEEL
EW	EACH WAY	SVA	SERVICE VALVE ASSEMBLY
EA	EACH	SB	SOIL BORING
EJ	EAST JORDAN IRON WORKS	SCHED	SCHEDULE
EL	ELEVATION	SDR	STANDARD DIMENSION RATIO
EX	EXISTING	SECT	SECTION
EXP	EXPANSION	SF	SQUARE FEET
FF	FINISH FLOOR ELEVATION	SHT	SHEET
FM	FORCE MAIN	SPECS	SPECIFICATION(S)
FND	FOUND	SQ	SQUARE
FT	FEET	SRF	STATE REVOLVING FUND
FTG	FOOTING	ST	STREET
GALV	GALVANIZED	STA	STATION
GPS	GLOBAL POSITIONING SYSTEM	SYD	SQUARE YARD
HMA	HOT MIX ASPHALT	TBM	TEMPORARY BENCHMARK
HDPE	HIGH DENSITY POLYETHYLENE	TC	TOP OF CASTING
HORIZ	HORIZONTAL	TYP	TYPICAL
ID	INSIDE DIAMETER	UNO	UNLESS NOTED OTHERWISE
IE	INVERT ELEVATION	USGS	US GEOLOGICAL SURVEY
INC	INCORPORATED	VERT	VERTICAL
INDOT	INDIANA DEPARTMENT OF TRANSPORTATION	VLV	VALVE
INSTR	INSTRUMENT	W	WIDTH, WEST
INV	INVERT	WSE	WATER SURFACE ELEVATION
		YR	YEAR

*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:

1. 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.
2. 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.
3. 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 TILES, 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.
4. 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.
5. OBTAIN ALL TEMPORARY EASEMENTS REQUIRED FOR THE CONSTRUCTION OF THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.
6. 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 TIME PERIOD SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCTION.
7. 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 APPROXIMATE. CONTACT THE INDIANA UTILITY PROTECTION SERVICE (O.U.P.S) AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY. CONTACT NON-MEMBER UTILITIES DIRECTLY.
8. DETERMINE WHICH UTILITIES MAY CONFLICT WITH THE 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.
9. EXISTING UTILITY SERVICE LINES TO INDIVIDUAL CUSTOMERS MAY NOT BE SHOWN ON THE DRAWINGS. ASSUME THAT UNDERGROUND SERVICE LINES EXIST FOR ALL UTILITIES EXIST TO EACH PROPERTY ALONG THE ROUTE OF THE PLANNED IMPROVEMENTS.
10. COORDINATE WORK WITH THE RESPECTIVE UTILITIES. SCHEDULE WORK ACCORDINGLY, AND NOTIFY ALL UTILITIES A MINIMUM OF [illegible] WEEKS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY.
11. 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.
12. 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.
13. BRACE AND PROTECT ALL UTILITY POLES AND EXISTING STRUCTURES ADJACENT TO NEW EXCAVATIONS. UTILITY POLE BRACING SHALL BE AS DIRECTED BY THE GOVERNING UTILITY.
14. MAINTAIN EXISTING STORMWATER DRAINAGE FOR THE ENTIRE DURATION OF THE PROJECT.
15. DO NOT DISTURB EXISTING MANHOLES OR INLETS, UNLESS NOTED OTHERWISE.
16. 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.
17. COORDINATE STAGING AREA LOCATIONS WITH THE OWNER AND WITH AND DIVISION 3: MAIN ST/US 136 WATER MAIN REPLACEMENT PROJECT CONTRACTOR.
18. ALL CONSTRUCTION TRAFFIC SHALL USE MAJOR ROADS. NO CONSTRUCTION TRAFFIC SHALL USE LOCAL STREETS FOR INDIRECT ACCESS.
19. TO CONTROL DUST, REMOVE SOIL FROM STREETS USED BY CONSTRUCTION TRAFFIC DAILY, VACUUM AND WATER AS NECESSARY AND/OR AS DIRECTED BY THE OWNER.
20. PLACE NEW ASPHALT PAVEMENT FLUSH WITH ADA RAMPS.
21. COMPLETELY REMOVE UNDERGROUND PIPING THAT HAS PREVIOUSLY BEEN OR WILL BE TAKEN OUT OF SERVICE, IN CONFLICT WITH THE NEW WORK, UNLESS OTHERWISE NOTED, ABANDON IN PLACE ALL UNDERGROUND PIPING NOT IN CONFLICT WITH THE NEW WORK. DO NOT LEAVE ABANDONED PIPING LIVE. SEE SPECIFICATION SECTION 02050 FOR DEMOLITION PROCEDURES.
22. LENGTHS OF SEWERS AS SHOWN ON THE DRAWINGS AND INDICATED AS LINEAR FEET (LF) ARE FROM CENTER TO CENTER OF STRUCTURES.
23. NORTHING AND EASTING INFORMATION IS GIVEN AT CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
24. PLACE NO. 8 CRUSHED AGGREGATE BETWEEN PIPES AT ALL PIPE CROSSINGS TO PREVENT PIPE SETTLEMENT UNLESS SHOWN OTHERWISE.
25. VERIFY EXISTING SEWER INVERTS AND LOCATIONS PRIOR TO CONSTRUCTION AND DETERMINE IF THERE ARE ANY DISCREPANCIES OR CONFLICTS.
26. RESET ALL MAILBOXES AND SIGNS DISTURBED BY CONSTRUCTION ACTIVITIES.
27. IF REQUIRED, PLACE TEMPORARY OVERNIGHT AGGREGATE WEDGES AT DRIVEWAYS TO ALLOW PROPERTY OWNER ACCESS.
28. WATER MAIN REPLACEMENT WORK SHALL COMPLY WITH TOWN OF BROWNSBURG CONSTRUCTION STANDARDS.

UTILITY CONTACTS

WATER
TOWN OF BROWNSBURG
317-693-4520
EMAIL: FMONTS@BROWNSBURG.ORG
ATTN: FRANK MONTS

FIBER OPTIC
ZAYO BANDWIDTH
EMAIL: WAYLON.HIGGINS@ZAYO.COM
ATTN: WAYLON HIGGINS

GAS
CENTERPOINT ENERGY/ VECTREN
317-209-5736
EMAIL: PUBLICPROJECTUEZ@CENTERPOINTENERGY.COM
BENJAMIN.VASQ@VECTREN.COM
ATTN: GENERAL MAILBOX & BEN VASQUEZ

SEWER
TOWN OF BROWNSBURG
317-852-1114
EMAIL: KOILLON@BROWNSBURG.ORG
ATTN: KATHY DILLON

ELECTRIC
DUKE ENERGY
765-446-4016
EMAIL: DEI-DLINE-COORD@DUKE-ENERGY.COM
ATTN: GENERAL MAILBOX & AMANDA STRAWSMA

CABLE TV
COMCAST CABLE
317-710-0602
EMAIL: WILLIAM_MORRIS@COMCAST.COM
ATTN: WILLIAM MORRIS

FIBER OPTIC
MCI
EMAIL: RONALD.KOCIENSKI@G.VERISON.COM
ATTN: RONALD KOCIENSKI

CABLE TV/FIBER OPTIC
CHARTER COMMUNICATIONS
317-538-2016
EMAIL:BYRON.POSEY@CHARTER.COM
ATTN: BYRON POSEY

COMMUNICATION
AT&T DISTRIBUTION
317-755-9632
EMAIL: G09871@ATT.COM
KN267E@ATT.COM
ATTN: GENERAL MAILBOX
KYLE NOERR

COMMUNICATION
CENTRUY LINK / LUMENS
EMAIL:RELOCATIONS@LUMEN.COM
ATTN: GENERAL MAILBOX & LESLIE DINGMAN

COMMUNICATION/FIBER OPTIC
EVERSTREAM, LLC
919-912-6549
EMAIL: JOCK.PARKER@OCMGROUPS.COM
ATTN: JOCK PARKER

SCALE VERIFICATION	DRAWN BY	MRE
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	MAP
	APPROVED BY	ADG
	ISSUE DATE	SEPTEMBER 2023
	PROJECT NUMBER	256822-04-001

NO.	DATE	INITIALS	REVISION DESCRIPTIONS

ANDREW D. GORDON — REGISTERED — No. 10809017 — STATE OF INDIANA — PROFESSIONAL ENGINEER — 09/01/2023

WESSLER ENGINEERING
More than a Project™

DIVISION 1: WATER MAIN REPLACEMENT

TOWN OF BROWNSBURG, INDIANA

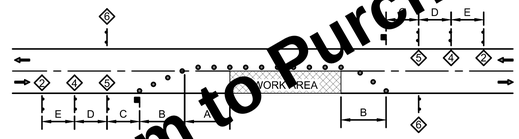
GENERAL NOTES AND ABBREVIATIONS

SHEET NO. 03

TOTAL SHEETS 19

MAINTENANCE OF TRAFFIC - OVERALL WORK AREA AND ADVANCE SIGNAGE
SCALE: 1" = 150'

0 75 150 300 FT
1"=150'



TEMPORARY FLAGGER OPERATION
SCALE: NONE

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

NOTES:
1. DISTANCES SHOWN ARE APPROXIMATE. ADJUST SIGN FOR CURVES, HILLS, INTERSECTIONS, DRIVEWAYS, ETC TO IMPROVE SIGN VISIBILITY.
2. 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

- WORK AREA(S)
- TYPE A CONSTRUCTION WARNING LIGHT
- (2) "UTILITY WORK AHEAD" (W21-7)
- (3) "ROAD CLOSED AHEAD" (W20-3)
- (4) "ONE LANE ROAD AHEAD" (W20-4)
- (5) FLAGGER SIGN (W20-7)
- (6) "END ROAD WORK" (G20-2)
- (12) "WRONG WAY" (R5-1A)
- (13) "ONE-WAY" (R6-2) REFER TO PLAN FOR RIGHT OR LEFT
- (14) "DO NOT ENTER" (R5-1)
- (15) "NO PARKING" (R8-3)
- (16) "NO RIGHT TURN" (R3-1)
- (17) "NO LEFT TURN" (R3-2)
- (W) TEMPORARY PAVEMENT MARKING, REMOVABLE, WHITE, 4"
- (EX) EXISTING PAVEMENT MARKING
- (FL) WORK TO BE CONSTRUCTED UNDER FLAGGER OPERATIONS, ADJUSTING THE MAINTENANCE OF TRAFFIC AS NECESSARY TO MAINTAIN AT LEAST ONE TRAVEL LANE. REFER TO TYPICAL FLAGGER OPERATIONS DETAIL.
- TRAFFIC CONTROL DRUM
- TRAFFIC FLOW DIRECTION
- ROAD CLOSURE SIGN ASSEMBLY, INCLUDES R11-2, BARRICADE TYPE IIIB, AND TYPE B CONSTRUCTION WARNING LIGHT
- FLAGGER
- SIGN

TRAFFIC CONTROL NOTES

1. PROTECTION OF AND ACCESS FOR: PEDESTRIANS, EMERGENCY VEHICLES, AND ADJACENT RESIDENTIAL AND COMMERCIAL PROPERTIES SHALL BE MAINTAINED DURING CONSTRUCTION.
2. PROVIDE 50 UNDISTRIBUTED CONSTRUCTION SIGNS (TYPE B) FOR SIDEWALK CLOSED, PEDESTRIAN ROUTING, BUSINESS ROUTING, ETC.

SCALE VERIFICATION	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	JRF				
	APPROVED BY	ADG				
	ISSUE DATE	SEPTEMBER 2023				
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ANDREW D. GORDON REGISTERED No. 10809017 STATE OF INDIANA PROFESSIONAL ENGINEER 09/21/2023

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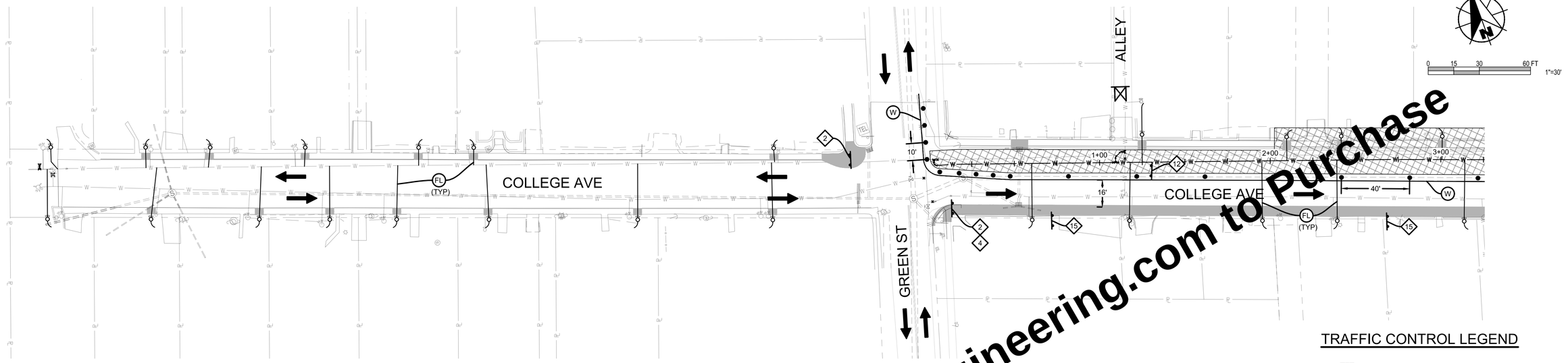
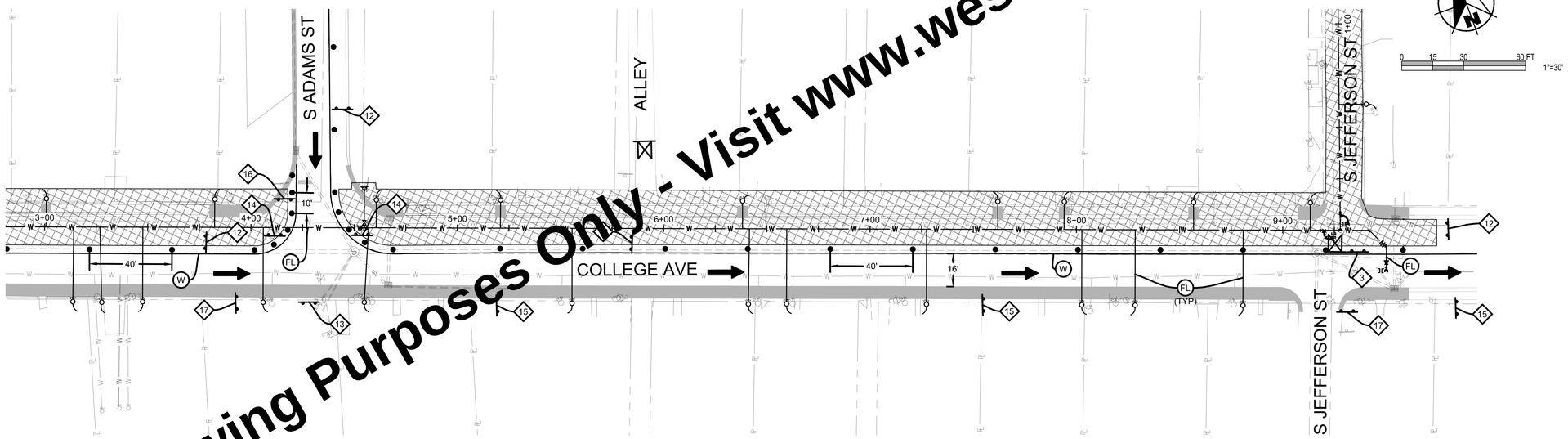
DIVISION 1: WATER MAIN REPLACEMENT
TOWN OF BROWNSBURG, INDIANA
MAINTENANCE OF TRAFFIC
OVERALL WORK AREA AND ADVANCE SIGNAGE

SHEET NO. 04
TOTAL SHEETS 19



MAINTENANCE OF TRAFFIC - COLLEGE AVE
SCALE: 1" = 30'



MAINTENANCE OF TRAFFIC - COLLEGE AVE
SCALE: 1" = 30'

TRAFFIC CONTROL LEGEND

- WORK AREA(S)
- TYPE A CONSTRUCTION WARNING LIGHT
- 2 "UTILITY WORK AHEAD" (W21-7)
- 3 "ROAD CLOSED AHEAD" (W20-3)
- 4 "ONE LANE ROAD AHEAD" (W20-4)
- 5 FLAGGER SIGN (W20-7)
- 6 "END ROAD WORK" (G20-2)
- 12 "WRONG WAY" (R5-1A)
- 13 "ONE-WAY" (R6-2) REFER TO PLAN FOR RIGHT OR LEFT
- 14 "DO NOT ENTER" (R5-1)
- 15 "NO PARKING" (R8-3)
- 16 "NO RIGHT TURN" (R3-1)
- 17 "NO LEFT TURN" (R3-2)
- W TEMPORARY PAVEMENT MARKING, REMOVABLE, WHITE, 4"
- EX EXISTING PAVEMENT MARKING
- FL WORK TO BE CONSTRUCTED UNDER FLAGGER OPERATIONS. ADJUSTING THE MAINTENANCE OF TRAFFIC AS NECESSARY TO MAINTAIN AT LEAST ONE TRAVEL LANE. REFER TO TYPICAL FLAGGER OPERATIONS DETAIL.
- TRAFFIC CONTROL DRUM
- TRAFFIC FLOW DIRECTION
- ROAD CLOSURE SIGN ASSEMBLY, INCLUDES R11-2, BARRICADE TYPE IIIB, AND TYPE B CONSTRUCTION WARNING LIGHT
- FLAGGER
- SIGN

TRAFFIC CONTROL NOTES

1. PROTECTION OF AND ACCESS FOR: PEDESTRIANS, EMERGENCY VEHICLES, AND ADJACENT RESIDENTIAL AND COMMERCIAL PROPERTIES SHALL BE MAINTAINED DURING CONSTRUCTION.
2. PROVIDE 50 UNDISTRIBUTED CONSTRUCTION SIGNS (TYPE B) FOR SIDEWALK CLOSED, PEDESTRIAN ROUTING, BUSINESS ROUTING, ETC.

SCALE VERIFICATION BAR IS ONE INCH LONG ON ORIGINAL DRAWING	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS	
	CHECKED BY	JRF					
	APPROVED BY	ADG					
	ISSUE DATE	SEPTEMBER 2023					
	PROJECT NUMBER	256822-04-001					

ANDREW D. GORDON REGISTERED No. 10809017 STATE OF INDIANA PROFESSIONAL ENGINEER 09/21/2023

WESSLER ENGINEERING
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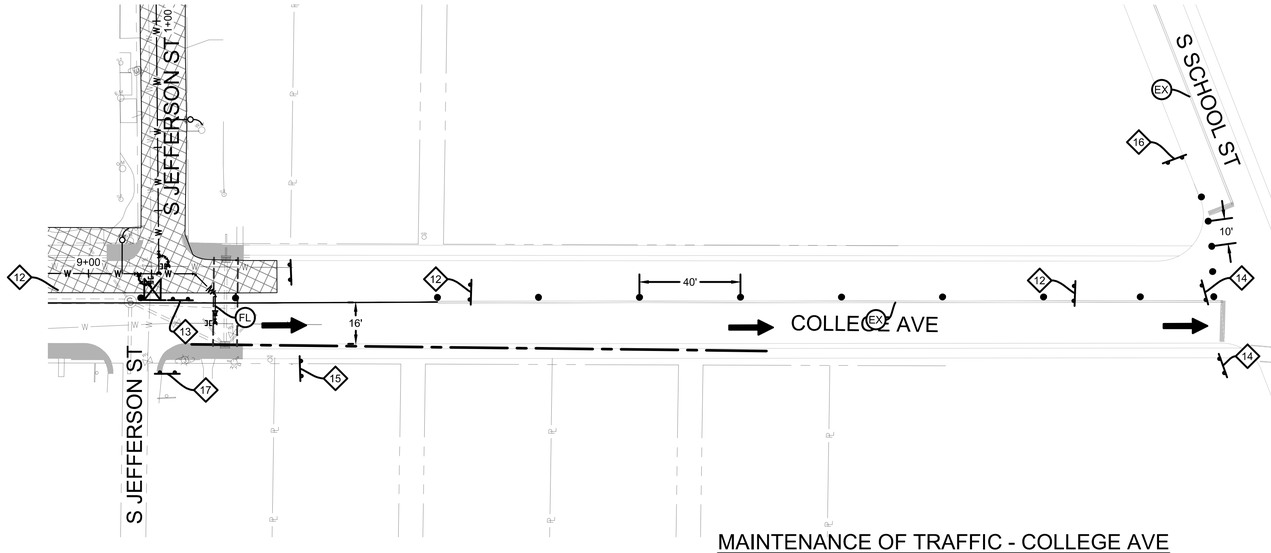
DIVISION 1: WATER MAIN REPLACEMENT

TOWN OF BROWNSBURG, INDIANA

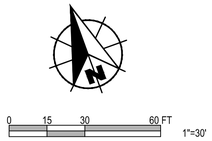
MAINTENANCE OF TRAFFIC COLLEGE AVE

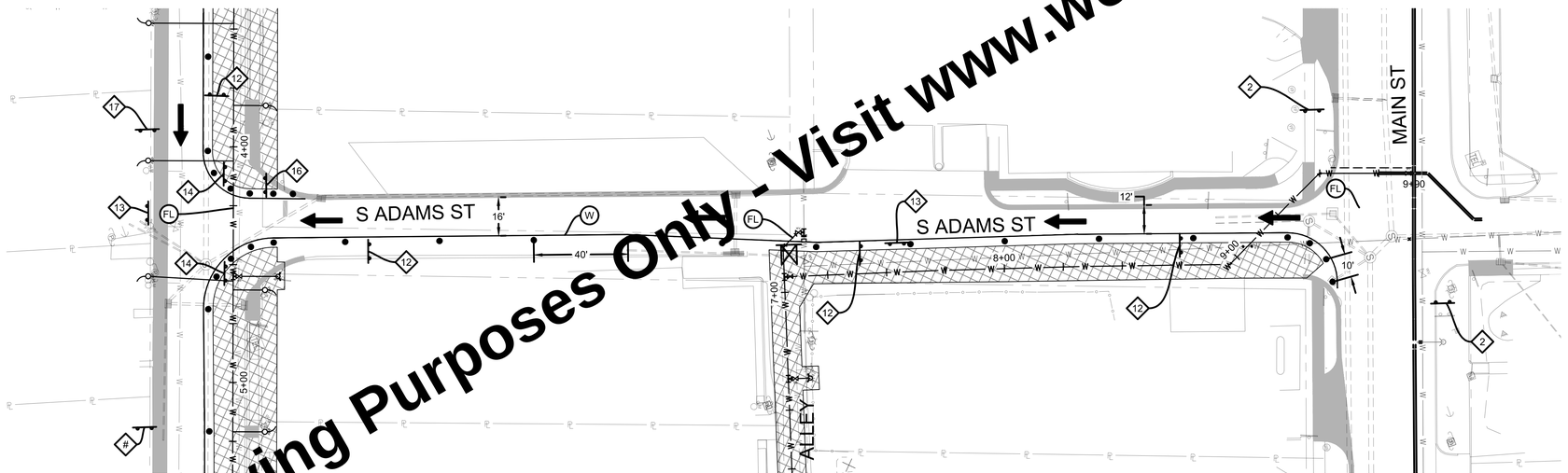
SHEET NO. **05**

TOTAL SHEETS 19



MAINTENANCE OF TRAFFIC - COLLEGE AVE
SCALE: 1" = 30'





MAINTENANCE OF TRAFFIC - ADAMS ST
SCALE: 1" = 30'

TRAFFIC CONTROL LEGEND

- WORK AREA(S)
- TYPE A CONSTRUCTION WARNING LIGHT
- 2 "UTILITY WORK AHEAD" (W21-7)
- 3 "ROAD CLOSED AHEAD" (W20-3)
- 4 "ONE LANE ROAD AHEAD" (W20-4)
- 5 FLAGGER SIGN (W20-7)
- 6 "END ROAD WORK" (G20-2)
- 12 "WRONG WAY" (R5-1A)
- 13 "ONE-WAY" (R6-2) REFER TO PLAN FOR RIGHT OR LEFT
- 14 "DO NOT ENTER" (R5-1)
- 15 "NO PARKING" (R8-3)
- 16 "NO RIGHT TURN" (R3-1)
- 17 "NO LEFT TURN" (R3-2)
- W TEMPORARY PAVEMENT MARKING, REMOVABLE, WHITE, 4"
- EX EXISTING PAVEMENT MARKING
- FL WORK TO BE CONSTRUCTED UNDER FLAGGER OPERATIONS, ADJUSTING THE MAINTENANCE OF TRAFFIC AS NECESSARY TO MAINTAIN AT LEAST ONE TRAVEL LANE. REFER TO TYPICAL FLAGGER OPERATIONS DETAIL.
- TRAFFIC CONTROL DRUM
- TRAFFIC FLOW DIRECTION
- ROAD CLOSURE SIGN ASSEMBLY, INCLUDES R11-2, BARRICADE TYPE IIIB, AND TYPE B CONSTRUCTION WARNING LIGHT
- FLAGGER
- SIGN

TRAFFIC CONTROL NOTES

1. PROTECTION OF AND ACCESS FOR: PEDESTRIANS, EMERGENCY VEHICLES, AND ADJACENT RESIDENTIAL AND COMMERCIAL PROPERTIES SHALL BE MAINTAINED DURING CONSTRUCTION.
2. PROVIDE 50 UNDISTRIBUTED CONSTRUCTION SIGNS (TYPE B) FOR SIDEWALK CLOSED, PEDESTRIAN ROUTING, BUSINESS ROUTING, ETC.

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BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	JRF					
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	ISSUE DATE	SEPTEMBER 2023					
	PROJECT NUMBER	256822-04-001					

ANDREW D. GORDON REGISTERED No. 10809017 STATE OF INDIANA PROFESSIONAL ENGINEER 09/21/2023

WESSLER ENGINEERING
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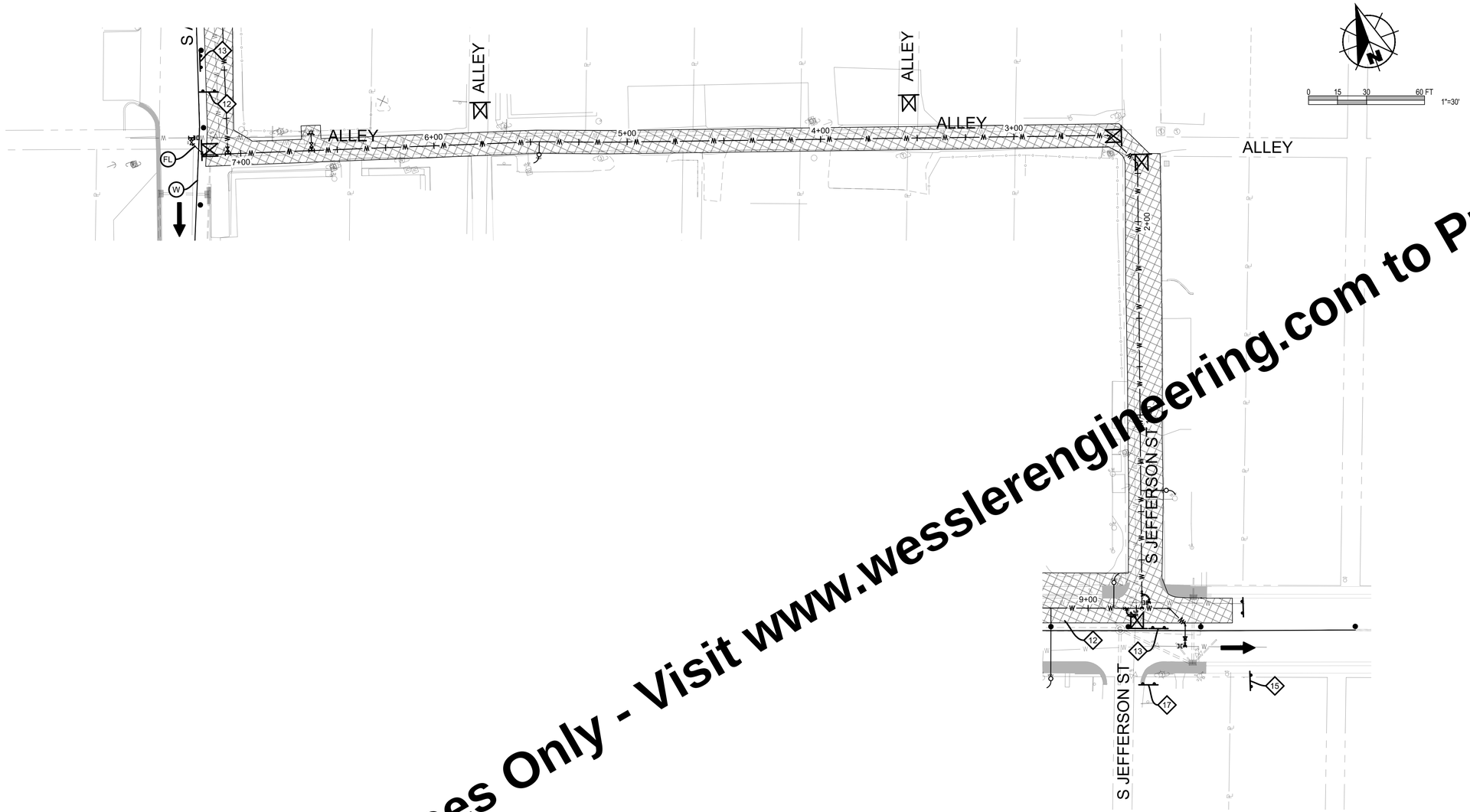
DIVISION 1: WATER MAIN REPLACEMENT

TOWN OF BROWNSBURG, INDIANA

MAINTENANCE OF TRAFFIC
COLLEGE AVE AND ADAMS ST

SHEET NO. **06**

TOTAL SHEETS 19



MAINTENANCE OF TRAFFIC - JEFFERSON ST AND ALLEY

SCALE: 1" = 30'

TRAFFIC CONTROL LEGEND

- WORK AREA(S)
- TYPE A CONSTRUCTION WARNING LIGHT
- (2) "UTILITY WORK AHEAD" (W21-7)
- (3) "ROAD CLOSED AHEAD" (W20-3)
- (4) "ONE LANE ROAD AHEAD" (W20-4)
- (5) FLAGGER SIGN (W20-7)
- (6) "END ROAD WORK" (G20-2)
- (12) "WRONG WAY" (R5-1A)
- (13) "ONE-WAY" (R6-2) REFER TO PLAN FOR RIGHT OR LEFT
- (14) "DO NOT ENTER" (R5-1)
- (15) "NO PARKING" (R8-3)
- (16) "NO RIGHT TURN" (R3-1)
- (17) "NO LEFT TURN" (R3-2)
- (W) TEMPORARY PAVEMENT MARKING, REMOVABLE, WHITE, 4"
- (EX) EXISTING PAVEMENT MARKING
- (FL) WORK TO BE CONSTRUCTED UNDER FLAGGER OPERATIONS, ADJUSTING THE MAINTENANCE OF TRAFFIC AS NECESSARY TO MAINTAIN AT LEAST ONE TRAVEL LANE. REFER TO TYPICAL FLAGGER OPERATIONS DETAIL.
- TRAFFIC CONTROL DRUM
- TRAFFIC FLOW DIRECTION
- ROAD CLOSURE SIGN ASSEMBLY, INCLUDES R11-2, BARRICADE TYPE IIIB, AND TYPE B CONSTRUCTION WARNING LIGHT
- FLAGGER
- SIGN

TRAFFIC CONTROL NOTES

1. PROTECTION OF AND ACCESS FOR: PEDESTRIANS, EMERGENCY VEHICLES, AND ADJACENT RESIDENTIAL AND COMMERCIAL PROPERTIES SHALL BE MAINTAINED DURING CONSTRUCTION.
2. PROVIDE 50 UNDISTRIBUTED CONSTRUCTION SIGNS (TYPE B) FOR SIDEWALK CLOSED, PEDESTRIAN ROUTING, BUSINESS ROUTING, ETC.

SCALE VERIFICATION	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	JRF				
	APPROVED BY	ADG				
	ISSUE DATE	SEPTEMBER 2023				
	PROJECT NUMBER	256822-04-001				

ANDREW D. GORDON REGISTERED No. 10809017 STATE OF INDIANA PROFESSIONAL ENGINEER 09/01/2023

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DIVISION 1: WATER MAIN REPLACEMENT

TOWN OF BROWNSBURG, INDIANA

MAINTENANCE OF TRAFFIC
JEFFERSON ST AND ALLEY

SHEET NO. **07**

TOTAL SHEETS 19

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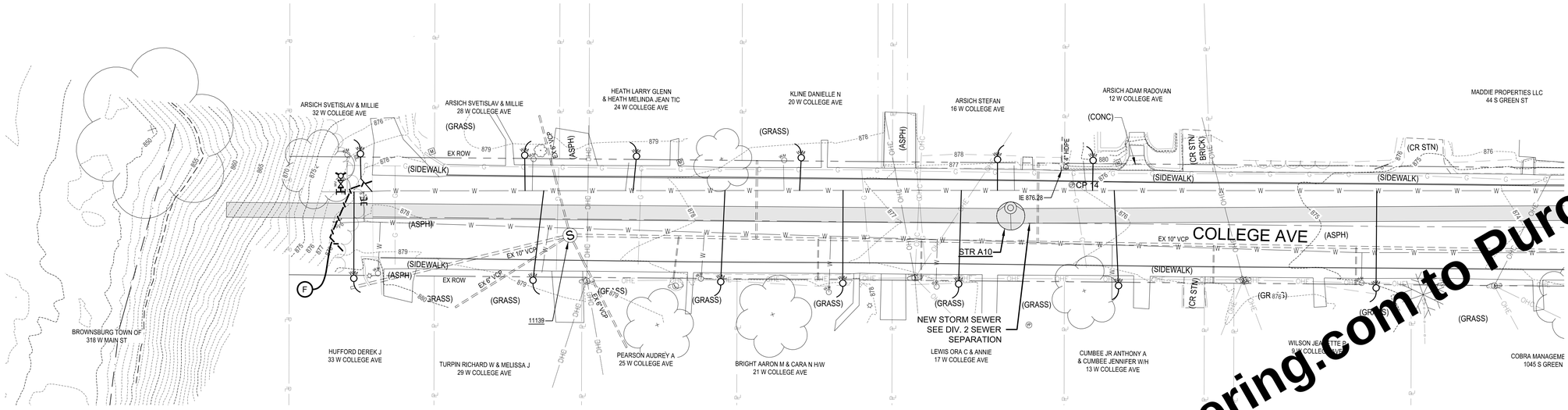
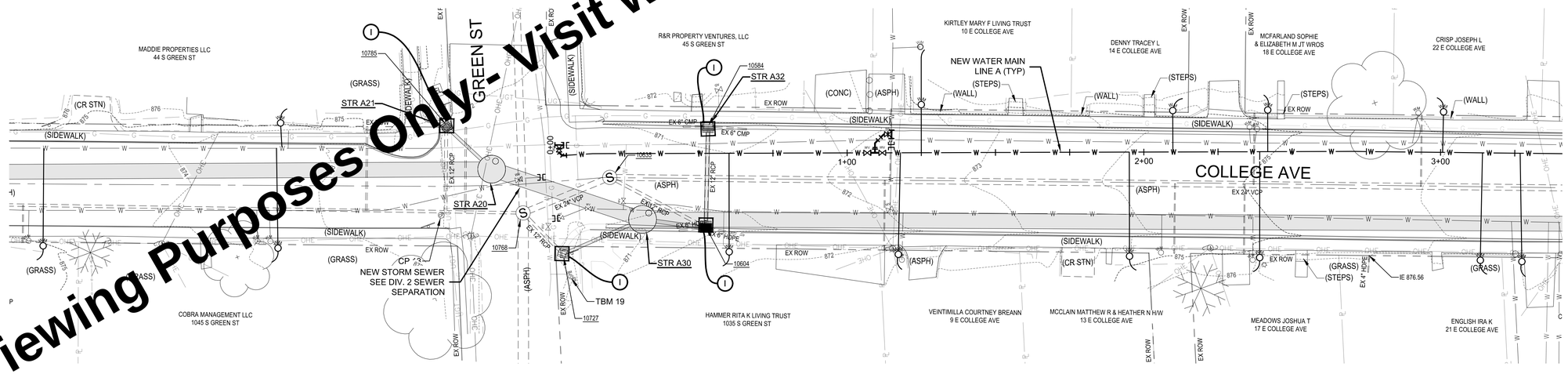


EROSION CONTROL - COLLEGE AVE

SCALE: 1" = 20'

KEYED NOTES AND LEGEND

I	☐	INLET PROTECTION, SEE DTL SHT 44
C	CW	CONCRETE WASHOUT, SEE DTL SHT 45
F	⌇	FIBER FILTRATION TUBE, SEE DTL SHT 44



EROSION CONTROL - COLLEGE AVE

SCALE: 1" = 20'

SCALE VERIFICATION	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	MAP				
	APPROVED BY	ADG				
	ISSUE DATE	SEPTEMBER 2023				
	PROJECT NUMBER	256822-04-001				

ANDREW D. GORDON REGISTERED No. 10809017 STATE OF INDIANA PROFESSIONAL ENGINEER 09/21/2023

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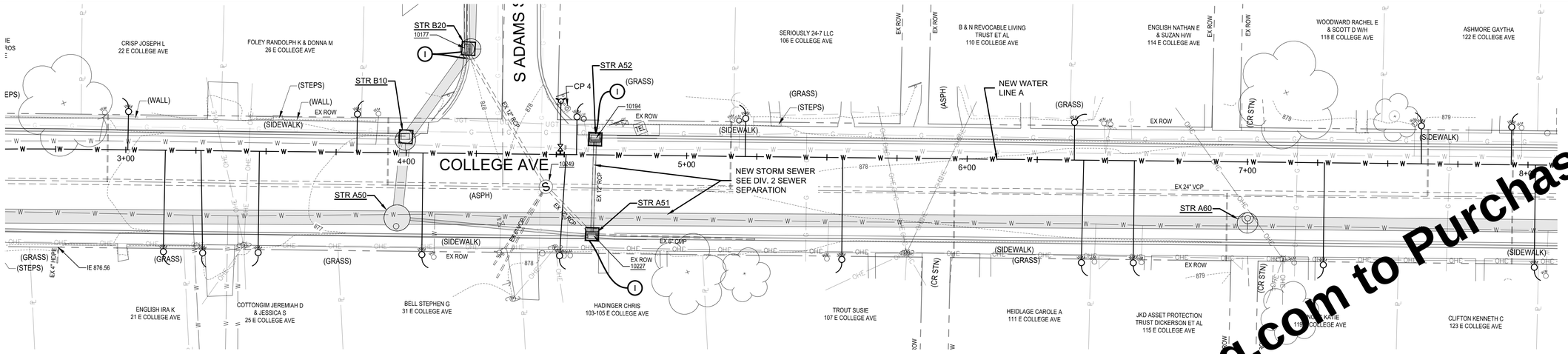
DIVISION 1: WATER MAIN REPLACEMENT

TOWN OF BROWNSBURG, INDIANA

EROSION CONTROL PLAN (COLLEGE AVE)

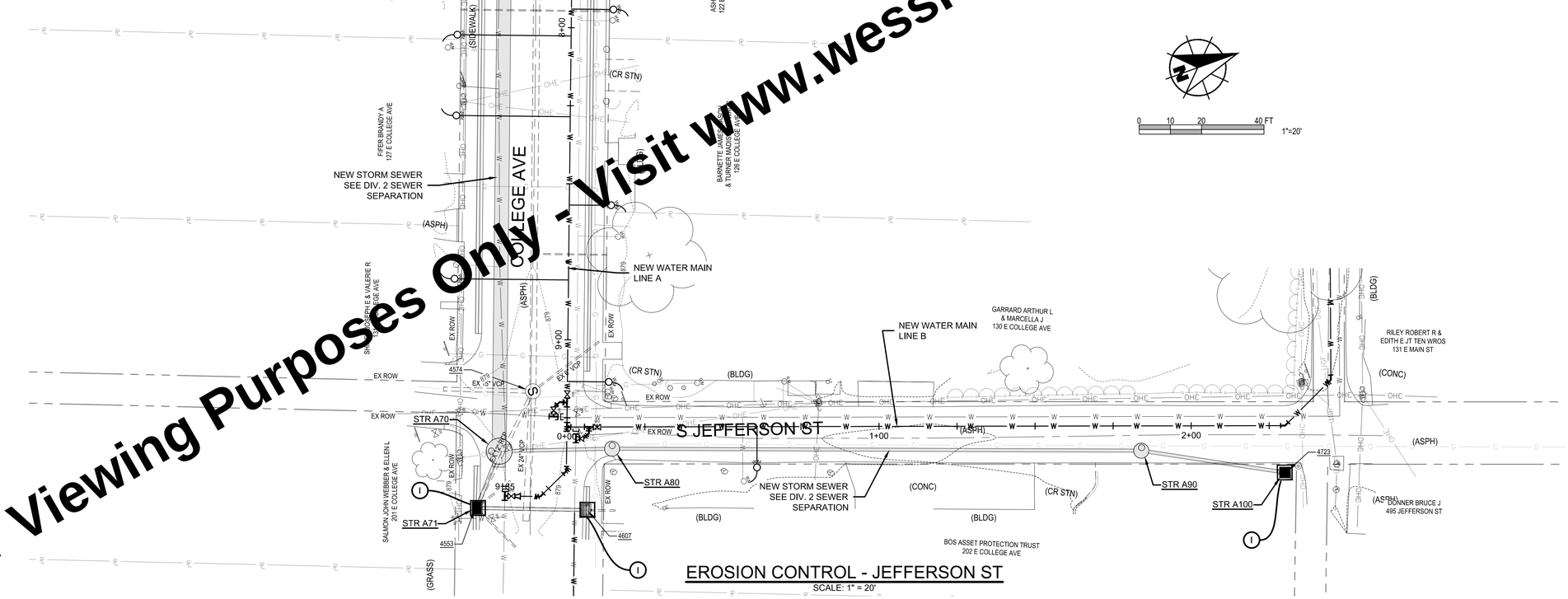
SHEET NO. **08**

TOTAL SHEETS 19



EROSION CONTROL - COLLEGE AVE

SCALE: 1" = 20'



EROSION CONTROL - JEFFERSON ST

SCALE: 1" = 20'

KEYED NOTES AND LEGEND

I	□	INLET PROTECTION, SEE DTL SHT 44
C	CW	CONCRETE WASHOUT, SEE DTL SHT 45
F		FIBER FILTRATION TUBE, SEE DTL SHT 44

SCALE VERIFICATION	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	MAP				
	APPROVED BY	ADG				
	ISSUE DATE	SEPTEMBER 2023				
	PROJECT NUMBER	256822-04-001				

ANDREW D. GORDON REGISTERED No. 10809017 STATE OF INDIANA PROFESSIONAL ENGINEER 09/27/2023

WESSLER ENGINEERING
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DIVISION 1: WATER MAIN REPLACEMENT

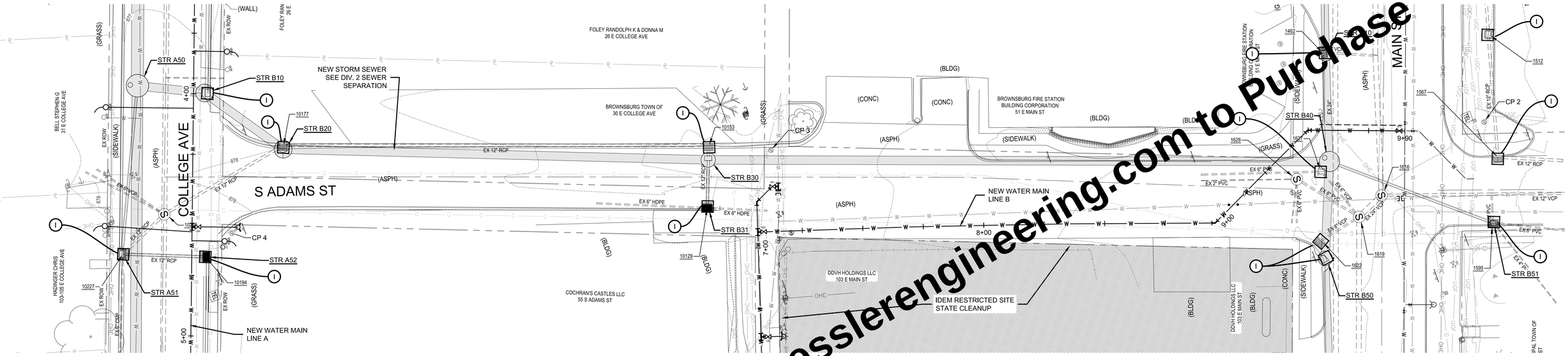
TOWN OF BROWNSBURG, INDIANA

EROSION CONTROL PLAN (COLLEGE AVE AND JEFFERSON ST)

SHEET NO. 09

TOTAL SHEETS 19

Drawing: J:\Brownsburg\Projects\256822 Brownsburg College Ave & Main St Drainage\CAD\DWG\Sheets\Contract B Ph1 - Water\256822-b1-EC.dwg | Layout: ec2 | Plotted: 09/25/23 @ 04:26:05 | LastSavedBy: MichelleE



EROSION CONTROL - S ADAMS ST
SCALE: 1" = 20'

KEYED NOTES AND LEGEND

I	□	INLET PROTECTION, SEE DTL SHT 44
C	CW	CONCRETE WASHOUT, SEE DTL SHT 45
F		FIBER FILTRATION TUBE, SEE DTL SHT 44

SCALE VERIFICATION	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS	
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	MAP					
	APPROVED BY	ADG					
	ISSUE DATE	SEPTEMBER 2023					
	PROJECT NUMBER	256822-04-001					

ANDREW D. GORDON REGISTERED No. 10809017 STATE OF INDIANA PROFESSIONAL ENGINEER 09/27/2023

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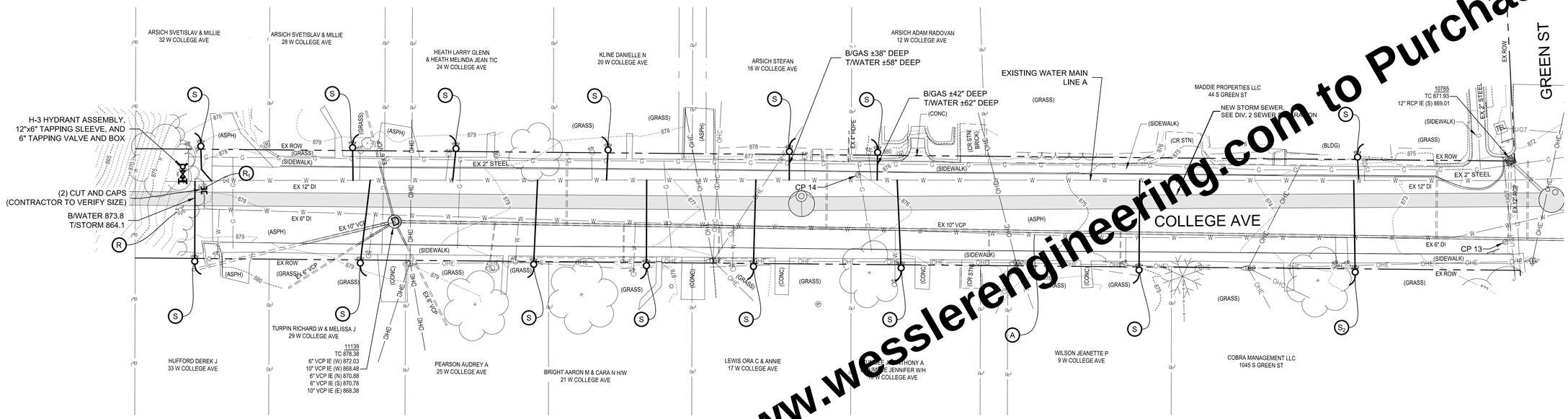
DIVISION 1: WATER MAIN REPLACEMENT

TOWN OF BROWNSBURG, INDIANA

EROSION CONTROL PLAN (S ADAMS ST)

SHEET NO. **10**

TOTAL SHEETS 19



PLAN - LINE A

SCALE: 1" = 20'

KEYED NOTES ○

- A ABANDON EXISTING WATER LINE IN PLACE
- R REMOVE EXISTING HYDRANT, CLOSE EXISTING AUXILIARY VALVE AND REMOVE VALVE BOX AND LID. IF AUXILIARY VALVE IS NOT PRESENT, CAP EXISTING HYDRANT LEAD
- R_1 CLOSE EXISTING VALVE AND REMOVE VALVE BOX AND LID
- S 3/4" NEW SERVICE AND METER PIT
- S_2 1" NEW SERVICE AND DUAL METER PIT

NOTES:

1. NOTED SEWER AND STORM PIPES ARE TO BE REMOVED OR INSTALLED AS PART OF DIVISION 2: SEWER SEPARATION PROJECT. CONTRACTOR TO COORDINATE REQUIRED SEPARATION BETWEEN NEW WATER (INCLUDING SERVICES).
2. ALL PAVEMENT, CURB, SIDEWALK, ADA RAMPS REPAIR AND REPLACEMENT ARE INCLUDED IN DIVISION 2.

SCALE VERIFICATION	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	MAP				
	APPROVED BY	ADG				
	ISSUE DATE	SEPTEMBER 2023				
	PROJECT NUMBER	256822-04-001				

ANDREW D. GORDON REGISTERED No. 10809017 STATE OF INDIANA PROFESSIONAL ENGINEER 09/01/2023

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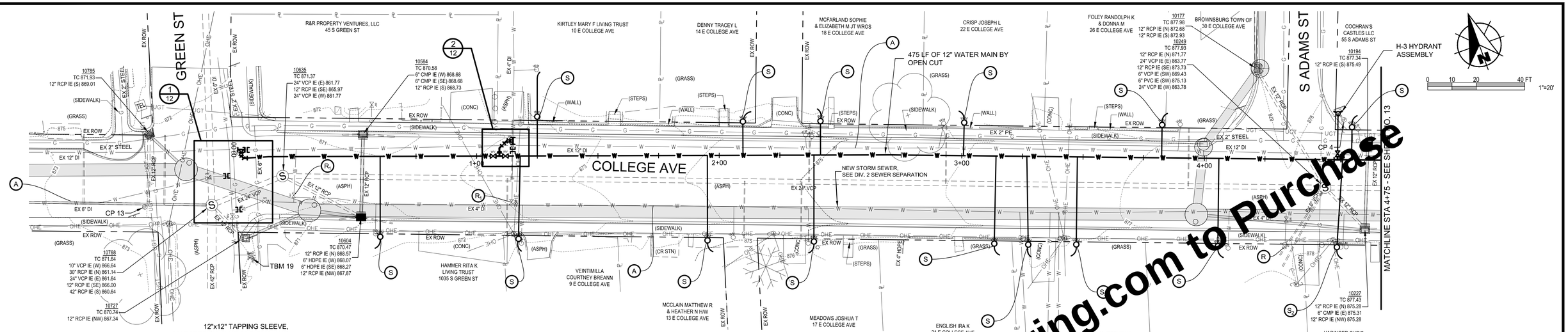
DIVISION 1: WATER MAIN REPLACEMENT

TOWN OF BROWNSBURG, INDIANA

PLAN - EXISTING WATER MAIN - LINE A (COLLEGE AVENUE)

SHEET NO. **11**

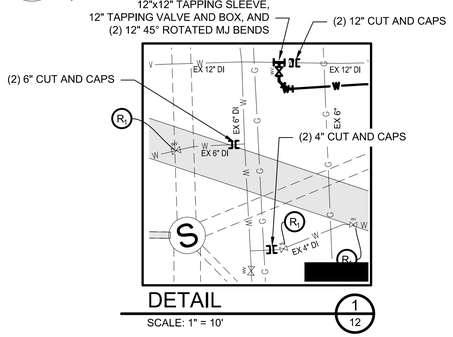
TOTAL SHEETS 19



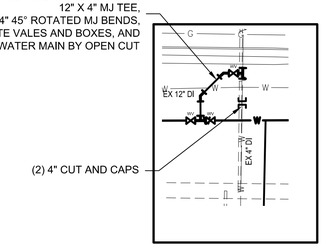
KEYED NOTES

- A ABANDON EXISTING WATER LINE IN PLACE
- R REMOVE EXISTING HYDRANT, CLOSE EXISTING AUXILIARY VALVE AND REMOVE VALVE BOX AND LID. IF AUXILIARY VALVE IS NOT PRESENT, CAP EXISTING HYDRANT LEAD
- R_1 CLOSE EXISTING VALVE AND REMOVE VALVE BOX AND LID
- S 3/4" NEW SERVICE AND METER PIT
- S_2 1" NEW SERVICE AND DUAL METER PIT

NOTES:
1. NOTED SEWER AND STORM PIPES ARE TO BE REMOVED OR INSTALLED AS PART OF DIVISION 2: SEWER SEPARATION PROJECT. CONTRACTOR TO COORDINATE REQUIRED SEPARATION BETWEEN NEW WATER (INCLUDING SERVICES).
2. ALL PAVEMENT, CURB, SIDEWALK, ADA RAMPS REPAIR AND REPLACEMENT ARE INCLUDED IN DIVISION 2.

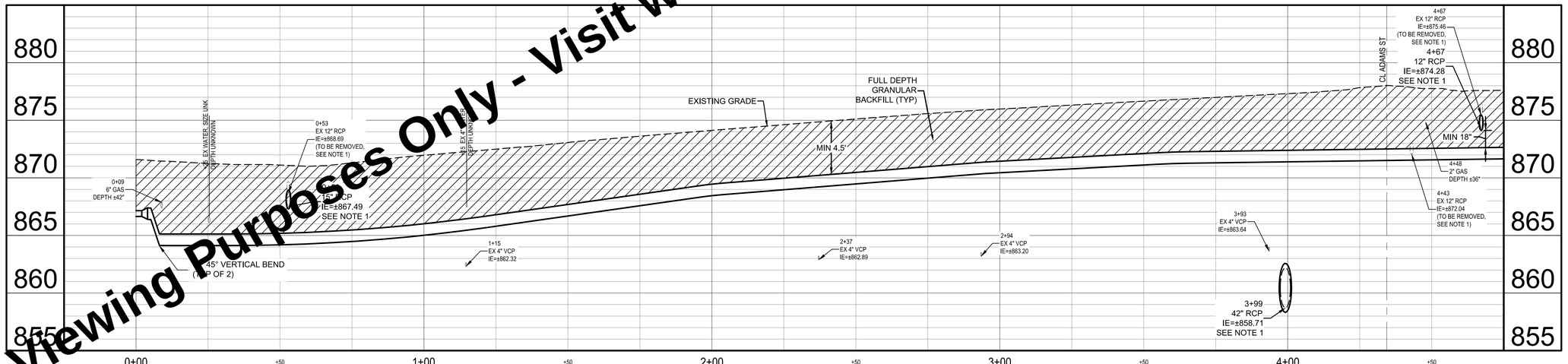


DETAIL 1/12
SCALE: 1" = 10'



DETAIL 2/12
SCALE: 1" = 10'

PLAN - LINE A
SCALE: 1" = 20'



PROFILE - LINE A
HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 5'

SCALE VERIFICATION	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	MAP				
	APPROVED BY	ADG				
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	PROJECT NUMBER	256822-04-001				

ANDREW D. GORDON REGISTERED No. 10809017 STATE OF INDIANA PROFESSIONAL ENGINEER 09/27/2023

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DIVISION 1: WATER MAIN REPLACEMENT

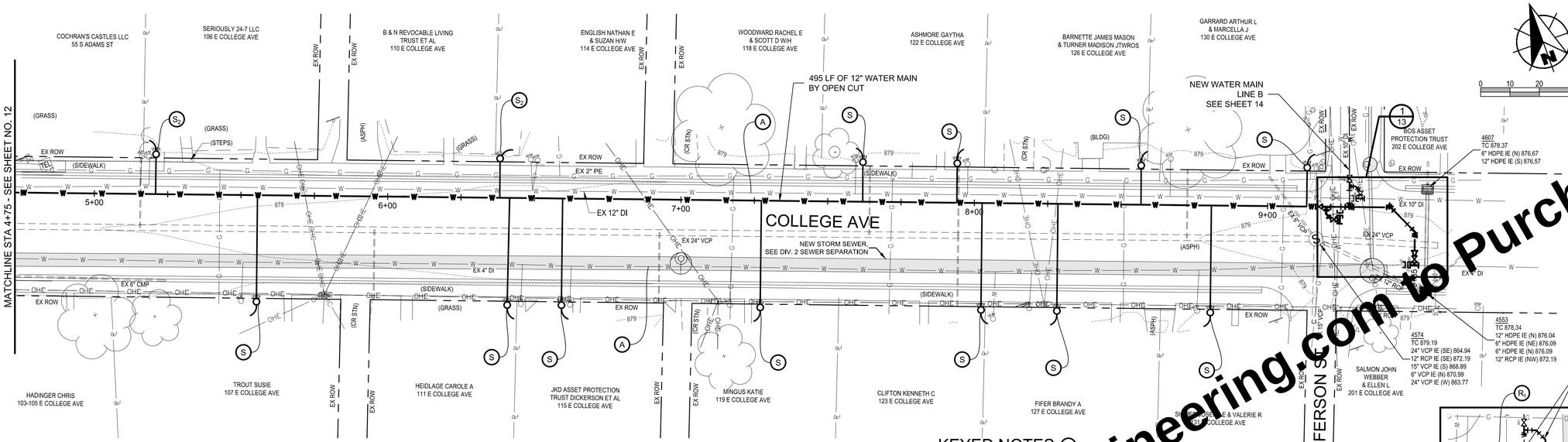
TOWN OF BROWNSBURG, INDIANA

PLAN AND PROFILE - NEW WATER MAIN - LINE A (COLLEGE AVENUE)

SHEET NO. **12**

TOTAL SHEETS 19

Drawing: J:\Brownsburg\Projects\256822 Brownsburg College Ave & Main St Drainage\CAD\DWG\Sheets\Contract B Ph1 - Water\256822-b1-PP-A.dwg | Layout: A2 | Plotted: 09/25/23 @ 04:28:09 | LastSavedBy: MichelleE



PLAN - LINE A

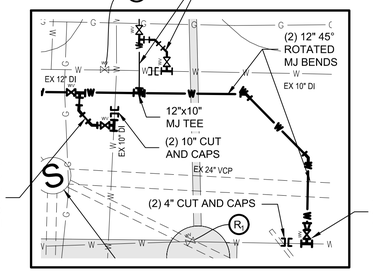
SCALE: 1" = 20'

KEYED NOTES

- A ABANDON EXISTING WATER LINE AT NOTED LOCATION
- R REMOVE EXISTING HYDRANT AND EXISTING AUXILIARY VALVE AND REMOVE VALVE BOX AND LID. IF AUXILIARY VALVE IS NOT PRESENT, CAP EXISTING HYDRANT LEAD.
- R_1 CLOSE EXISTING VALVE AND REMOVE VALVE BOX AND LID
- S 3/4" NEW SERVICE AND METER PIT
- S_2 NEW SERVICE AND DUAL METER PIT

NOTES:

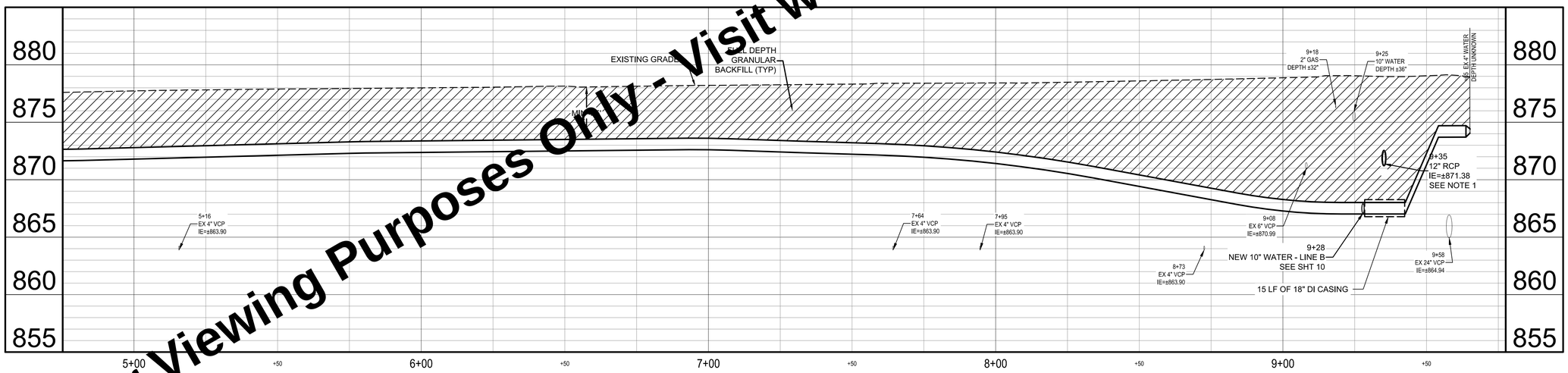
1. NOTED SEWER AND STORM PIPES ARE TO BE REMOVED OR INSTALLED AS PART OF DIVISION 2: SEWER SEPARATION PROJECT. CONTRACTOR TO COORDINATE REQUIRED SEPARATION BETWEEN NEW WATER (INCLUDING SERVICES).
2. ALL PAVEMENT, CURB, SIDEWALK, ADA RAMPS REPAIR AND REPLACEMENT ARE INCLUDED IN DIVISION 2.



DETAIL

SCALE: 1" = 10'

1 / 13



PROFILE - LINE A

HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 5'

SCALE VERIFICATION	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	MAP				
	APPROVED BY	ADG				
	ISSUE DATE	SEPTEMBER 2023				
	PROJECT NUMBER	256822-04-001				

ANDREW D. GORDON REGISTERED No. 10809017 STATE OF INDIANA PROFESSIONAL ENGINEER
09/27/2023

WESSLER ENGINEERING
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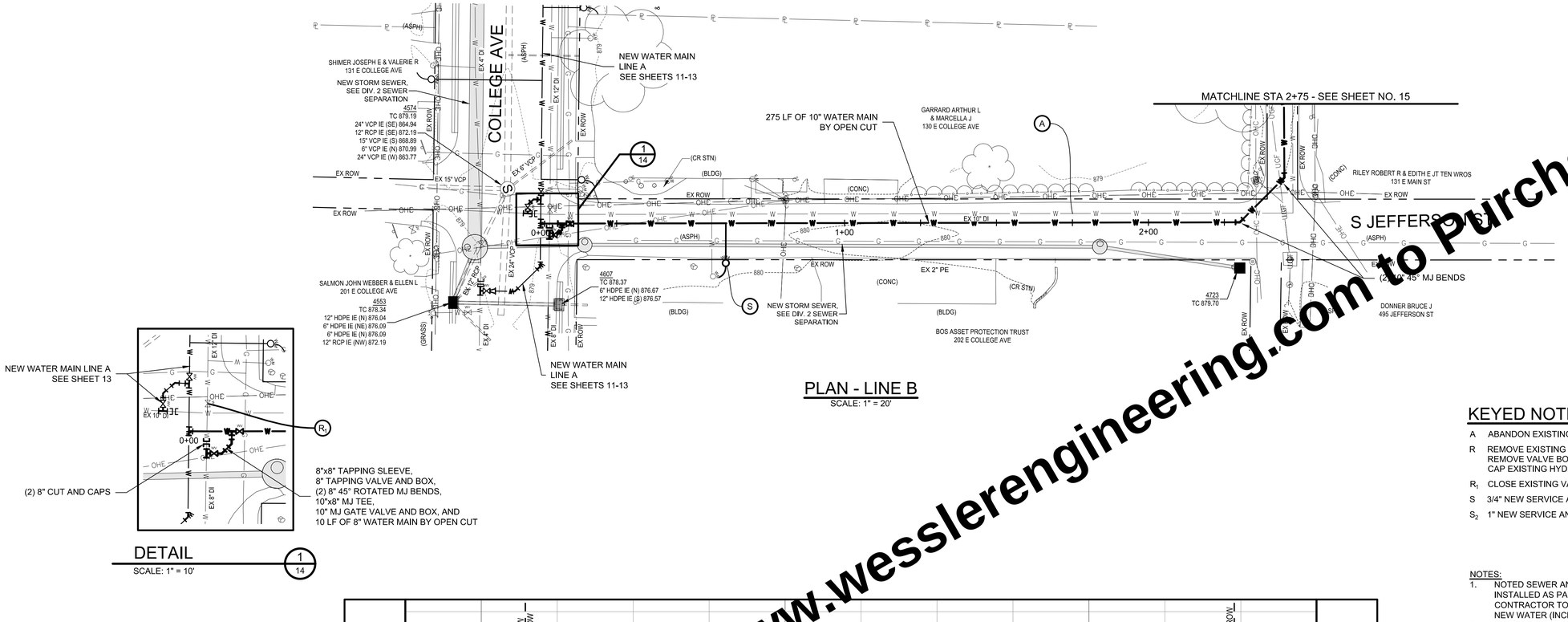
DIVISION 1: WATER MAIN REPLACEMENT

TOWN OF BROWNSBURG, INDIANA

PLAN AND PROFILE - NEW WATER MAIN - LINE A (COLLEGE AVENUE)

SHEET NO. 13

TOTAL SHEETS 19



PLAN - LINE B

SCALE: 1" = 20'

DETAIL

SCALE: 1" = 10'

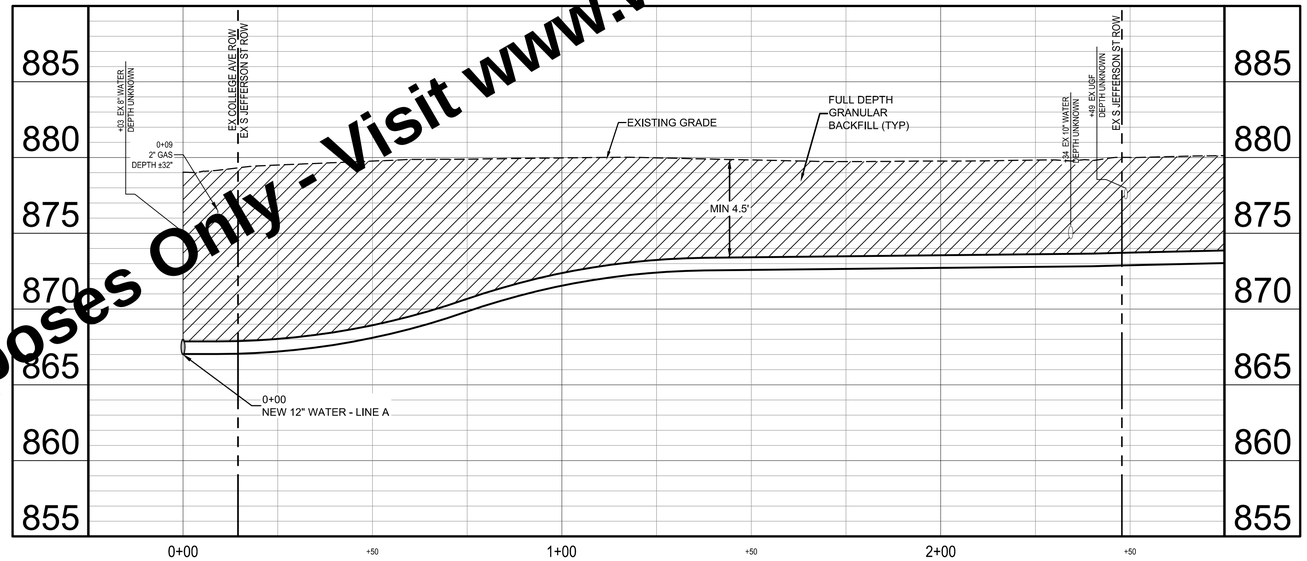
1
14

KEYED NOTES ○

- A ABANDON EXISTING WATER LINE IN PLACE
- R REMOVE EXISTING HYDRANT, CLOSE EXISTING AUXILIARY VALVE AND REMOVE VALVE BOX AND LID. IF AUXILIARY VALVE IS NOT PRESENT, CAP EXISTING HYDRANT LEAD
- R_1 CLOSE EXISTING VALVE AND REMOVE VALVE BOX AND LID
- S 3/4" NEW SERVICE AND METER PIT
- S_2 1" NEW SERVICE AND DUAL METER PIT

NOTES:

1. NOTED SEWER AND STORM PIPES ARE TO BE REMOVED OR INSTALLED AS PART OF DIVISION 2: SEWER SEPARATION PROJECT. CONTRACTOR TO COORDINATE REQUIRED SEPARATION BETWEEN NEW WATER (INCLUDING SERVICES).
2. ALL PAVEMENT, CURB, SIDEWALK, ADA RAMPS REPAIR AND REPLACEMENT ARE INCLUDED IN DIVISION 2.



PROFILE - LINE B

HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 5'

SCALE VERIFICATION	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS	
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	MAP					
	APPROVED BY	ADG					
	ISSUE DATE	SEPTEMBER 2023					
	PROJECT NUMBER	256822-04-001					

ANDREW D. GORDON REGISTERED No. 10809017 STATE OF INDIANA PROFESSIONAL ENGINEER 09/21/2023

WESSLER ENGINEERING
More than a Project™

DIVISION 1: WATER MAIN REPLACEMENT

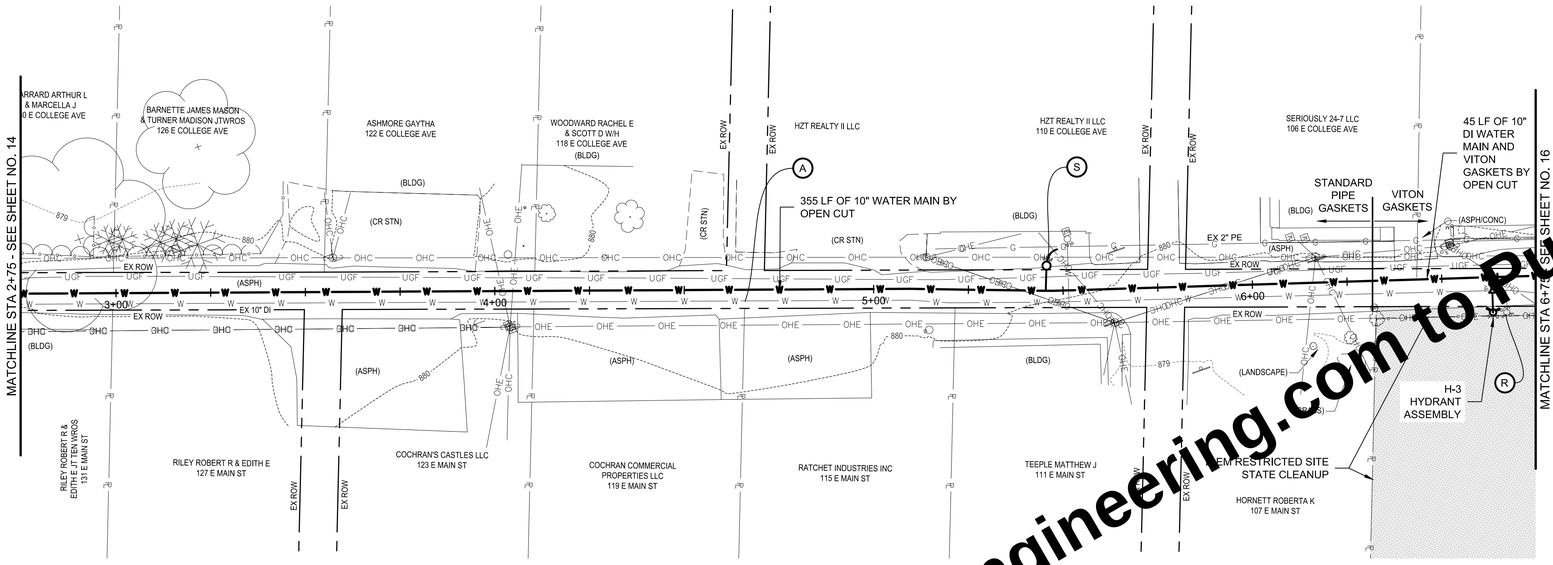
TOWN OF BROWNSBURG, INDIANA

PLAN AND PROFILE - NEW WATER MAIN - LINE B (S JEFFERSON ST)

SHEET NO. **14**

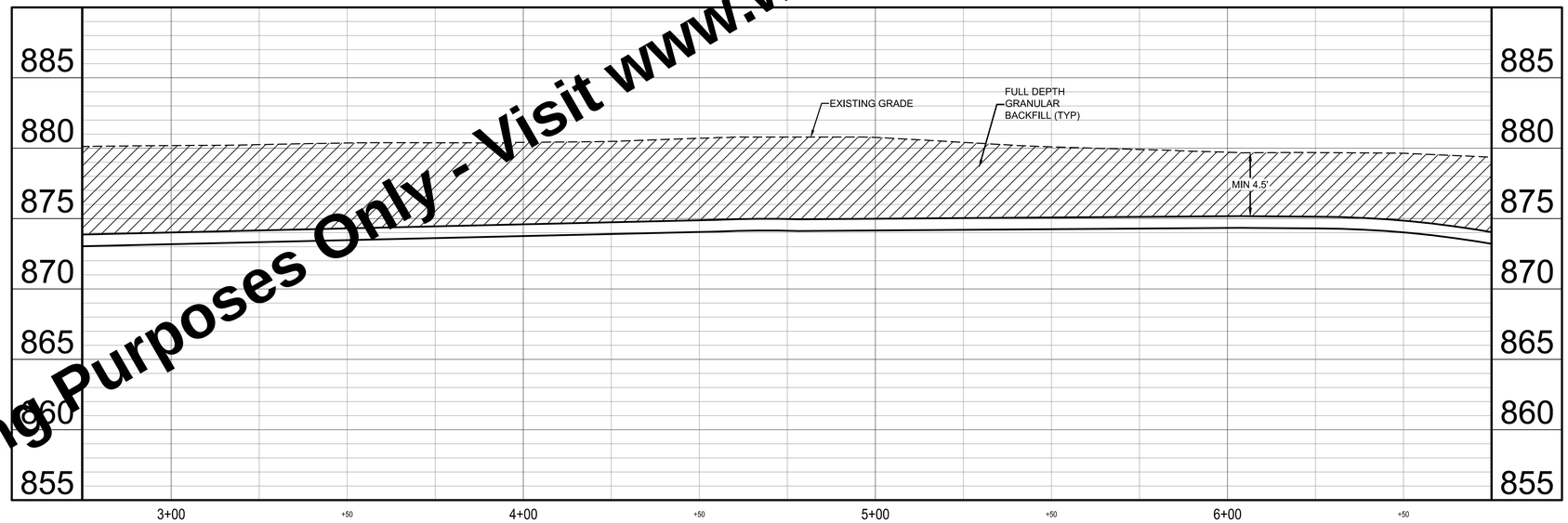
TOTAL SHEETS 19

Drawing: J:\Brownsburg\Projects\256822 Brownsburg College Ave & Main St Drainage\CAD\DWG\Sheets\Contract B Ph1 - Water\256822-b1-PP-B.dwg | Layout: B1 | Plotted: 09/25/23 @ 04:30:10 | LastSavedBy: MichelleE



PLAN - LINE B

SCALE: 1" = 20'



PROFILE - LINE B

HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 5'

NOTES:

1. NOTED SEWER AND STORM PIPES ARE TO BE REMOVED OR INSTALLED AS PART OF DIVISION 2: SEWER SEPARATION PROJECT. CONTRACTOR TO COORDINATE REQUIRED SEPARATION BETWEEN NEW WATER (INCLUDING SERVICES).
2. ALL PAVEMENT, CURB, SIDEWALK, ADA RAMPS REPAIR AND REPLACEMENT ARE INCLUDED IN DIVISION 2.

KEYED NOTES ○

- A ABANDON EXISTING WATER LINE IN PLACE
- R REMOVE EXISTING HYDRANT, CLOSE EXISTING AUXILIARY VALVE AND REMOVE VALVE BOX AND LID. IF AUXILIARY VALVE IS NOT PRESENT, CAP EXISTING HYDRANT LEAD
- R_1 CLOSE EXISTING VALVE AND REMOVE VALVE BOX AND LID
- S 3/4" NEW SERVICE AND METER PIT
- S_2 1" NEW SERVICE AND DUAL METER PIT

SCALE VERIFICATION	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	MAP				
	APPROVED BY	ADG				
	ISSUE DATE	SEPTEMBER 2023				
	PROJECT NUMBER	256822-04-001				

ANDREW D. GORDON REGISTERED No. 10809017 STATE OF INDIANA PROFESSIONAL ENGINEER 09/21/2023

WESSLER ENGINEERING
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DIVISION 1: WATER MAIN REPLACEMENT

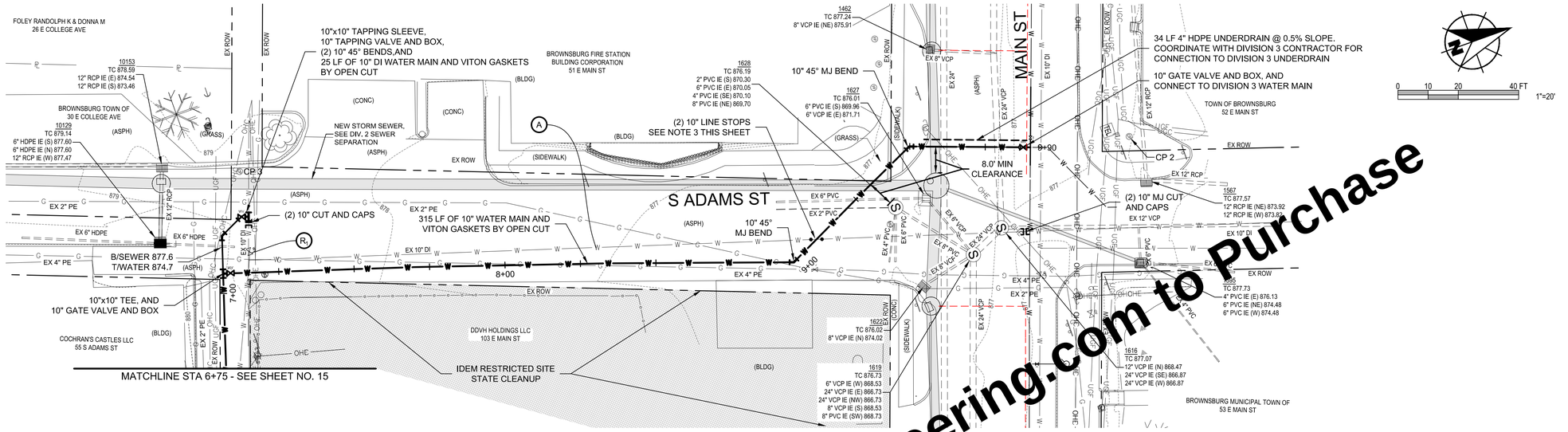
TOWN OF BROWNSBURG, INDIANA

PLAN AND PROFILE - NEW WATER MAIN - LINE B (ALLEY)

SHEET NO. **15**

TOTAL SHEETS 19

Drawing: J:\Brownsburg\Projects\256822 Brownsburg College Ave & Main St Drainage\CAD\DWG\Sheets\Contract B Ph1 - Water\256822-b1-PP-B.dwg | Layout: B2 | Plotted: 09/25/23 @ 04:30:44 | LastSavedBy: MichelleE

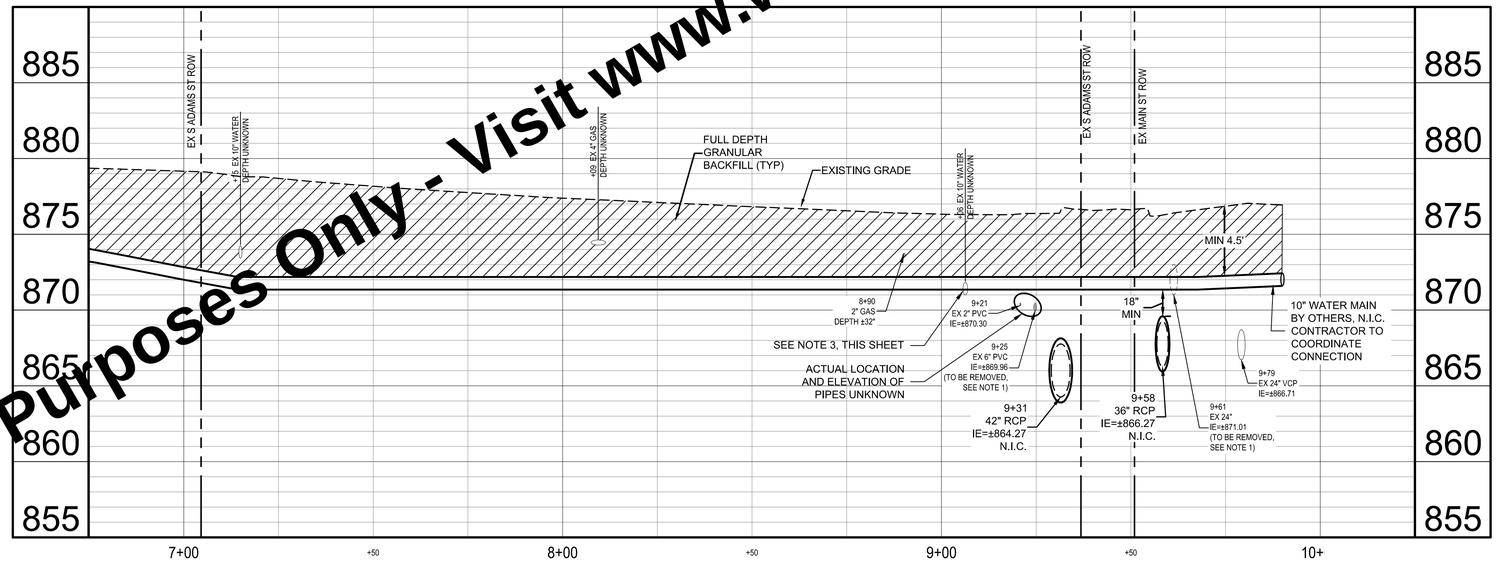


PLAN - LINE B

SCALE: 1" = 20'

KEYED NOTES

- A ABANDON EXISTING WATER LINE IN PLACE
- R REMOVE EXISTING HYDRANT, CLOSE EXISTING AUXILIARY VALVE AND REMOVE VALVE BOX AND LID. IF AUXILIARY VALVE IS NOT PRESENT, CAP EXISTING HYDRANT LEAD
- R_1 CLOSE EXISTING VALVE AND REMOVE VALVE BOX AND LID
- S 3/4" NEW SERVICE AND METER PIT
- S_2 1" NEW SERVICE AND DUAL METER PIT



PROFILE - LINE B

HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 5'

NOTES:

1. NOTED SEWER AND STORM PIPES ARE TO BE REMOVED OR INSTALLED AS PART OF DIVISION 2: SEWER SEPARATION PROJECT. CONTRACTOR TO COORDINATE REQUIRED SEPARATION BETWEEN NEW WATER (INCLUDING SERVICES).
2. ALL PAVEMENT, CURB, SIDEWALK, ADA RAMPS REPAIR AND REPLACEMENT ARE INCLUDED IN DIVISION 2.
3. CONTRACTOR TO FIELD VERIFY DEPTH OF EXISTING 10" WATER LINE AT STATION 9+06 AND WHETHER PROPOSED WATER MAIN CAN BE INSTALLED ABOVE IT. COORDINATE WITH TOWN DURING CONSTRUCTION. IF IT IS DETERMINED THAT THE PROPOSED WATER MAIN CAN NOT BE INSTALLED ABOVE THE EXISTING, USE LINE STOPS TO ISOLATE THE EXISTING WATER MAIN AND REMOVE THE PORTION IN CONFLICT WITH THE PROPOSED WATER MAIN.

SCALE VERIFICATION	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS	
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	MAP					
	APPROVED BY	ADG					
	ISSUE DATE	SEPTEMBER 2023					
	PROJECT NUMBER	256822-04-001					

ANDREW D. GORDON REGISTERED No. 10809017 STATE OF INDIANA PROFESSIONAL ENGINEER 09/21/2023

WESSLER ENGINEERING
More than a Project™

DIVISION 1: WATER MAIN REPLACEMENT

TOWN OF BROWNSBURG, INDIANA

PLAN AND PROFILE - NEW WATER MAIN - LINE B (S ADAMS STREET)

SHEET NO. **16**

TOTAL SHEETS 19

TABLE 1: PIPE RESTRAINT FOR
BEDDING OUTSIDE PAVEMENT LOADING ZONE

FEET OF RESTRAINED PIPE @ 150 PSI					
	WATER MAIN SIZE				
FITTING TYPE	4 INCH	6 INCH	8 INCH	10 INCH	12 INCH
11 1/4° BEND	20'	20'	20'	20'	20'
22 1/2° BEND	20'	20'	20'	20'	20'
45° BEND	20'	20'	24'	29'	34'
90° BEND	31'	44'	57"	70'	83'
25 1/2° VERTICAL BEND	20'	20'	20'	20'	24'
45° VERTICAL BEND	20'	26'	34'	42'	50'
VALVE/PLUG	22'	32'	41'	51'	60'
TEE OUTLET	22'	32'	41'	51'	60'

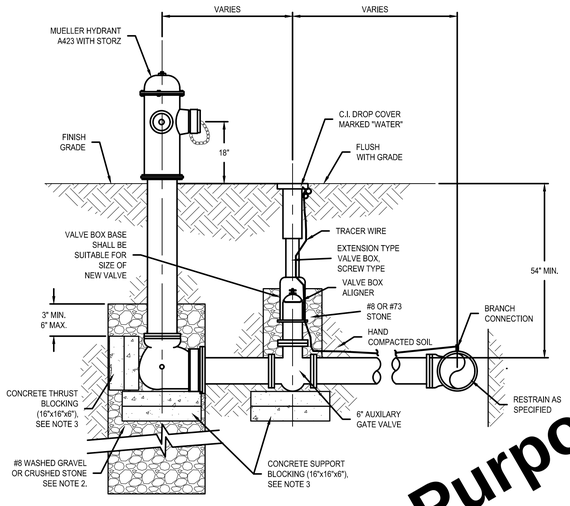
NOTE: TYPE 2 TRENCH, CLAY BACKFILL

TABLE 2: PIPE RESTRAINT FOR
BEDDING INSIDE PAVEMENT LOADING ZONE

FEET OF RESTRAINED PIPE @ 150 PSI					
	WATER MAIN SIZE				
FITTING TYPE	4 INCH	6 INCH	8 INCH	10 INCH	12 INCH
11 1/4° BEND	20'	20'	20'	20'	20'
22 1/2° BEND	20'	20'	20'	20'	20'
45° BEND	20'	20'	20'	20'	20'
90° BEND	20'	20'	20'	20'	21'
22 1/2° VERTICAL BEND	20'	20'	20'	20'	20'
45° VERTICAL BEND	20'	20'	20'	20'	22'
VALVE/PLUG	20'	29'	37"	45'	52'
TEE OUTLET	20'	29'	37"	45'	52'

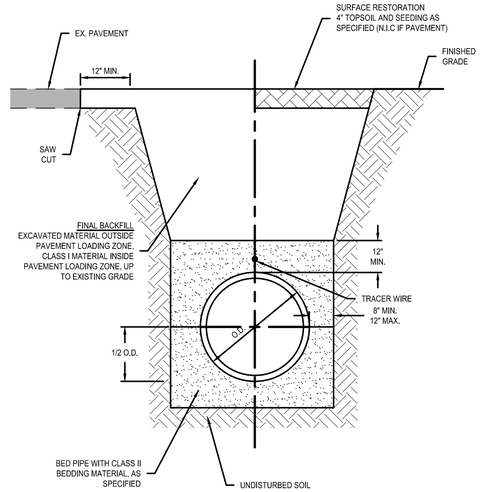
NOTE: TYPE 4 TRENCH, SAND/GRANULAR BACKFILL

WATER MAIN RESTRAINED PIPING
SCALE: NONE



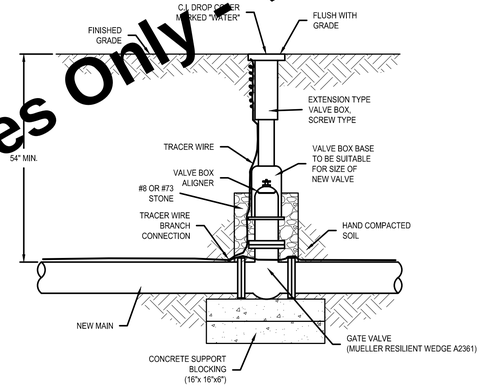
NOTES:
1. SET HYDRANT & VALVE AND BOX ON CONCRETE SUPPORT BLOCKING.
2. PLACE 2'x3' DEEP DRAINAGE PIT, EXTEND A MINIMUM OF 3", AND MAXIMUM OF 6" BELOW BOTTOM OF HYDRANT BOOT.
3. RESTRAINED FITTINGS SHALL BE USED IN ADDITION TO CONCRETE THRUST BLOCKING. RESTRAINTS MUST BE USED FROM THE DISTRIBUTION MAIN TO THE HYDRANT. PLACE CONCRETE BLOCKS BEHIND HYDRANT TO UNDISTURBED EARTH.
4. VALVE BOX SHALL BE CENTERED AND PLUMB OVER VALVE OPERATING NUT.
5. PROVIDE HYDRANT COLOR AS FOLLOWS, UNLESS OTHERWISE DIRECTED BY OWNER.
   PRIVATE : SAFETY RED
   PUBLIC : SAFETY YELLOW

HYDRANT ASSEMBLY
SCALE: NONE

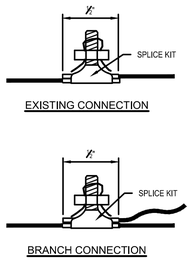


NOTES:
1. RIGID PIPE MATERIALS FOR WATER MAINS AND FORCE MAINS INCLUDE DUCTILE IRON PIPE.
2. PAVEMENT LOADING ZONE IS THE AREA WITHIN 5 FEET OF ANY EDGE OF PAVEMENT, CURB, GUTTER, SIDEWALK OR SIMILAR STRUCTURE.

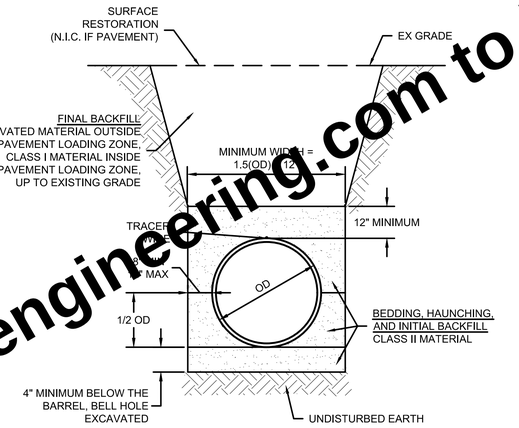
RIGID PRESSURE PIPE TRENCH
SCALE: NONE



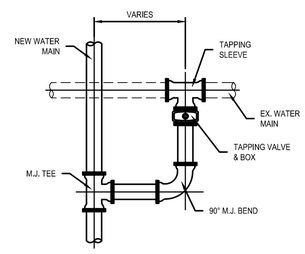
GATE VALVE
SCALE: NONE



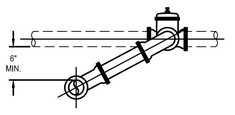
TRACER WIRE BOLTED CONNECTION DETAIL
SCALE: NONE



PLASTIC PIPE TRENCH (PRESSURE)
SCALE: NONE



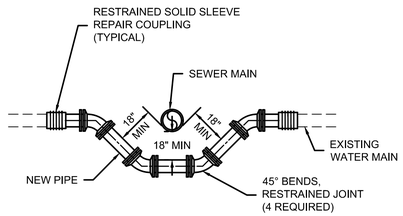
PLAN VIEW



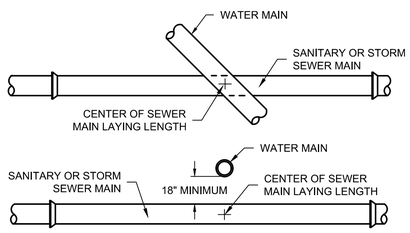
SECTION VIEW

NOTES:
1. USE RESTRAINED MECHANICAL JOINT FITTINGS IN ADDITION TO CONCRETE THRUST BLOCKING.

CROSS TAP CONFIGURATION
SCALE: NONE



WATER MAIN LOWERING
SCALE: NONE



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 OR SDR-21 PVC.

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

SCALE VERIFICATION	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
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ANDREW D. GORDON REGISTERED No. 10809017 STATE OF INDIANA PROFESSIONAL ENGINEER
09/21/2023

WESSLER ENGINEERING
More than a Project™

DIVISION 1: WATER MAIN REPLACEMENT

TOWN OF BROWNSBURG, INDIANA

MISCELLANEOUS DETAILS

SHEET NO. 17

TOTAL SHEETS 19

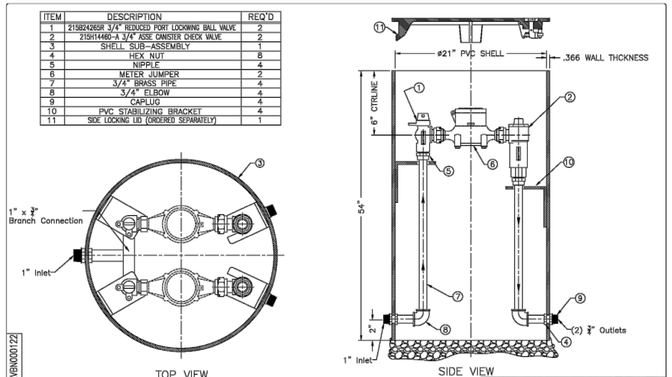
1. REFER TO THE TOWN OF BROWNSBURG CONSTRUCTION STANDARDS (SPECIFICATIONS AND DETAILS) FOR COMPLETE REQUIREMENTS.
2. REQUESTS FOR WATER SERVICE WILL BE DIRECTED THROUGH THE WATER UTILITY OFFICE IN THE BROWNSBURG MUNICIPAL CENTER LOCATED AT 61 N. GREEN STREET OR CALL (317) 852-1129 OR (317) 852-1102. DO NOT GO TO THE WATER FIELD OFFICE TO REQUEST SERVICE.
3. NO WATER TAPS OR METER SETS WILL BE MADE WITHOUT WRITTEN WORK ORDERS ISSUED FROM THE BROWNSBURG UTILITY OFFICE.
4. THE BROWNSBURG UTILITY OFFICE REQUIRES A MINIMUM OF A 24-HOUR ADVANCED NOTICE FOR ALL WATER TAPS AND METER SETS.
5. WHEN SETTING WATER METER PITS OR INSTALLING WATER MAIN TAPS ALL SPECIFICATIONS BELOW WILL BE FOLLOWED AND ENFORCED.
   A. EXPOSE THE WATER MAIN (AT LEAST A 4'X4' HOLE IS REQUIRED) AND PROVIDE A SAFE AND DRY WORKING AREA WITH EASY ACCESS INTO AND OUT OF THE HOLE. BROWNSBURG WATER PERSONNEL MAY, AT THEIR DISCRETION, REFUSE TO WORK IN AN UNSAFE HOLE OR TRENCH.
   B. USE TYPE "K" SOFT COPPER OR ENDOPURE POLYETHYLENE PIPE FOR SERVICE LINE INSTALLATIONS. ATTACH A LOCATE WIRE IN THREE (3) FOOT INTERVALS TO ENDOPURE POLYETHELENE PIPE AND TERMINATE INSIDE THE METER PIT DURING INSTALLATION.
   C. CONTRACTORS ARE RESPONSIBLE FOR INSTALLING ALL WATER SERVICE LINES TO THE METER PIT LOCATION AND SETTING THE METER PIT AND LID LEVEL WITH THE EXISTING GRADE. IF METER PIT NEEDS TO BE RAISED OR LOWERED AT A LATER DATE, IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO RAISE OR LOWER THE METER PIT. NO BRICK OR BLOCK WILL BE APPROVED. NO RISERS ARE ALLOWED. METER PIT MUST BE EXCAVATED IN ORDER TO RAISE OR LOWER THE PIT.
   D. ALL WATER LINES WILL BE A MINIMUM OF 54" IN DEPTH FROM BACK OF STREET CURB.
   E. ALL LINES THAT ARE OVER 100 FEET OR LONGER ARE REQUIRED TO BE UPSIZED ONE PIPE SIZE.
   F. BROWNSBURG WATER DEPARTMENT PERSONNEL WILL INSPECT ALL LINES FROM THE HOUSE AND FROM THE WATER MAIN TO THE WATER METER PIT LOCATION BEFORE THE METER IS SET AND TRENCH IS BACKFILLED.
   G. ANY WATER METER TO BE INSTALLED INSIDE A BUILDING MUST BE APPROVED BY THE TOWN OF BROWNSBURG WATER DEPARTMENT. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE APPROPRIATE WATER METER SETTERS INSIDE THE BUILDING BEFORE THE METER IS SET.
   H. AT LEAST 6" OF GRANULAR PEA FILL OR SAND IS REQUIRED UNDER THE METER PIT FOR PROPER LEVELING PURPOSES.
6. REFER TO THE TOWN'S APPROVED LIST OF EQUIPMENT AND MATERIAL MANUFACTURERS FOR APPROVED ITEMS AND DETAILS. BROWNSBURG WATER PERSONNEL WILL NOT APPROVE FORD METER OR PIPE FITTINGS.
7. ANY ALTERATIONS MUST BE APPROVED BY BROWNSBURG WATER DEPARTMENT PERSONNEL.

NOTE: REFER TO DETAIL NOS. DW-15 THROUGH DW-18 FOR THE APPROVED METER SETTER AND PIT FOR 1 1/2" AND 2" METERS.

INSTALLATION SPECIFICATIONS FOR WATER TAPS AND METER SETS

SCALE: NONE

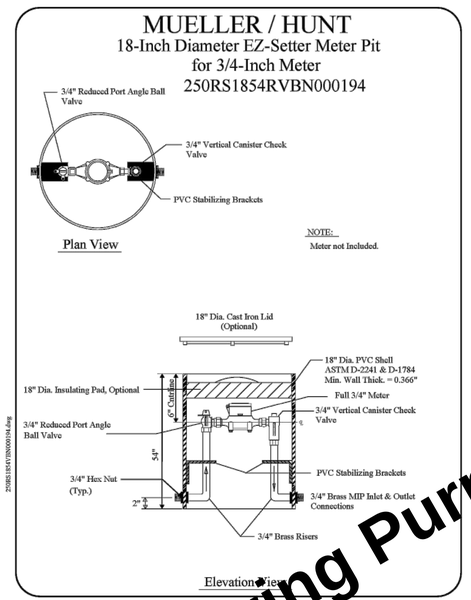
ITEM	DESCRIPTION	REQ'D
1	215B2426SR 3/4" REDUCED PORT LOCKWING BALL VALVE	2
2	215H1446D-A 3/4" ASSE CANISTER CHECK VALVE	2
3	SHELL SUB-ASSEMBLY	1
4	HEX NUT	8
5	NIPPLE	4
6	METER JUMPER	2
7	3/4" BRASS PIPE	4
8	3/4" ELBOW	4
9	CAPLUG	4
10	PVC STABILIZING BRACKET	4
11	SIDE LOCKING LID (ORDERED SEPARATELY)	1



NOTE: SEE DETAIL NO. DW-14 FOR WATER TAP AND METER SET INSTALLATION SPECIFICATIONS

21" METER SET FOR DUAL METER INSTALLATION

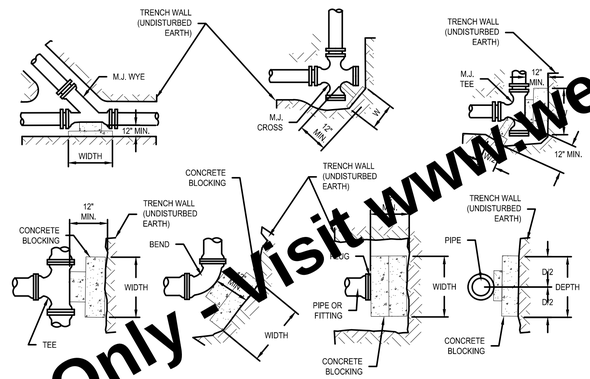
SCALE: NONE



NOTE: SEE DETAIL NO. DW-14 FOR WATER TAP AND METER SET INSTALLATION SPECIFICATIONS

18" METER SET FOR SINGLE METER INSTALLATION

SCALE: NONE



SIZE	TEE W	TEE D	22½° W	22½° D	45° W	45° D	90° W	90° D	PLUG W	PLUG D	WYE W	WYE D	CROSS W	CROSS D
3", 4"	2'-6"	1'-0"	1'-0"	0'-9"	1'-6"	1'-3"	2'-9"	1'-3"	1'-6"	1'-6"	2'-6"	1'-0"	2'-9"	1'-3"
6"	3'-3"	1'-6"	2'-0"	1'-0"	2'-6"	1'-6"	4'-3"	1'-6"	2'-3"	2'-3"	3'-3"	1'-6"	4'-3"	1'-6"
8"	4'-3"	2'-0"	2'-0"	1'-9"	3'-9"	1'-9"	6'-0"	2'-0"	3'-0"	3'-0"	4'-3"	2'-0"	6'-0"	2'-0"
10"	5'-3"	2'-6"	3'-0"	1'-9"	4'-0"	2'-6"	7'-3"	2'-6"	3'-9"	3'-9"	5'-3"	2'-6"	7'-3"	2'-6"
12"	6'-0"	3'-0"	3'-6"	2'-0"	4'-9"	3'-6"	7'-9"	3'-0"	4'-3"	4'-3"	6'-0"	3'-0"	7'-9"	3'-0"

NOTES:
1. CONCRETE REACTION BLOCKING SHALL NOT COVER PIPE JOINTS, BOLTS, OR GLANDS.
2. CONCRETE REACTION BLOCKING SHOWN FOR ILLUSTRATION PURPOSES ONLY. INSTALL NECESSARY AMOUNT AND CONFIGURATION OF BLOCKS REQUIRED TO ACHIEVE THE MINIMUM WIDTH AND DEPTH AS SHOWN ON THE ABOVE TABLE.

WATER MAIN REACTION BLOCKING

SCALE: NONE

EPURE-03
FEBRUARY, 2012

ENDOT INDUSTRIES

PIPE AND TUBING

EndoPure

The Standard in Polyethylene Pipe and Tubing

EndoPure is a unique premium pipe and tubing; below are a few of the key points that distinguish ***EndoPure*** from other HDPE products:

- ***EndoPure*** is color coded blue to meet the international standard for water pipe and tubing. ***EndoPure*** will always provide a visual identification in the crowded underground.
- ***EndoPure*** has a clear core of virgin natural HDPE providing visible proof of quality and the assurance that no regrind materials have been used to produce ***EndoPure.***
- ***EndoPure*** is produced from PE 4710 High Performance HDPE resin with a track record of quality and performance and a 25% higher pressure rating than PE 3608 resin.
- ***EndoPure*** when accidentally gouged or cut will show the clear core, a visual indication that significant damage has occurred, something that is hard to spot on solid colored pipe.
- ***EndoPure*** is entirely compatible with current fitting and connectors made for HDPE water and tubing.
- ***EndoPure*** has continuous consecutive footage marks every two feet to assist in installation.
- ***EndoPure*** is UV stabilized for protection from sunlight deterioration. When installed as underground water service tubing the life expectancy is up to 100 years.
- ***EndoPure*** printing is permanently embossed.
- ***EndoPure*** is NSF Certified to NSF-14 & 61 and meets AWWA C901 standards.
- ***EndoPure*** is backed by the strongest warranty in the industry. Endot is so confident that ***EndoPure*** is the best, most durable pipe and tubing available, we provide a warranty with no time limit and a labor reimbursement that is three times that of other plastic pipe and tubing.

CORPORATE HEADQUARTERS
60 Green Pond Road
Rockaway, NJ 07866
800-443-6368 • FAX 973-625-4087

ENDOT INDUSTRIES, INC.
www.endot.com • e-mail: info@endot.com

PLANT LOCATIONS
Greenville, TN
Pryor Creek, OK

2/12 1.5M

ENDOPRENE SERVICE LINE SPECIFICATIONS

SCALE: NONE

EPURE-02
NOVEMBER, 2013

ENDOT INDUSTRIES

PIPE AND TUBING

EndoPure PE-4710

BLUE (with CLEAR CORE) COILED PIPE & TUBING

BLUE WATER SERVICE TUBING (CTS - O.D. CONTROLLED) - ASTM D2737-12

Size	Nominal O.D.	Nominal I.D.	Min. Wall	Weight Per 100'	Standard Coil Size	Part Number
STANDARD OUTSIDE DIMENSION RATIO (SDR) = 9 (250 PSI)						
3/4"	0.875	0.681		10.3	500/100	PEP07541010009
1"	1.125	0.875		17.1	300/100	PEP10041010009
1-1/4"	1.375	1.069		25.5	300/100	PEP12541010009
1-1/2"	1.625	1.264		35.3	300/100	PEP15041010009
2"	2.125	1.653		61.0	200/100	PEP20041010009

BLUE WATER SERVICE PIPE (IPS - I.D. CONTROLLED) - ASTM D2239-12

Size	Nominal I.D.	Nominal O.D.	Min. Wall	Weight Per 100'	Standard Coil Size	Part Number
STANDARD INSIDE DIMENSION RATIO (SIDR) = 7 (250 PSI)						
3/4"	0.955	0.824	.118	15.5	400/100	PEP07541010004
1"	1.349	1.049	.150	24.9	300/200/100	PEP10041010004
1-1/4"	1.774	1.380	.197	42.8	300/100	PEP12541010004
1-1/2"	2.070	1.610	.230	58.4	250/100	PEP15041010004
2"	2.657	2.067	.295	93.3	200/100	PEP20041010004
STANDARD INSIDE DIMENSION RATIO (SIDR) = 9 (200 PSI)						
3/4"	1.008	0.824	.092	12.1	400/100	PEP07541010003
1"	1.283	1.049	.117	19.5	300/100	PEP10041010003
1-1/4"	1.696	1.380	.153	33.2	300/100	PEP12541010003
1-1/2"	1.968	1.610	.179	42.9	250/100	PBJ15041010003
2"	2.527	2.067	.230	71.0	200/100	PBJ20041010003

BLUE WATER SERVICE PIPE (IPS - O.D. CONTROLLED) - ASTM D3035

Size	Nominal O.D.	Nominal I.D.	Min. Wall	Weight Per 100'	Standard Coil Size	Part Number
STANDARD OUTSIDE DIMENSION RATIO (DR) = 9 (250 PSI)						
3/4"	1.050	0.816	.117	15.2	400/100	PEP07541010016
1"	1.315	1.029	.146	22.7	300/200/100	PEP10041010016
1-1/4"	1.660	1.294	.184	36.5	300/100	PEP12541010016
1-1/2"	1.900	1.478	.211	47.8	300/100	PEP15041010016
2"	2.375	1.847	.264	74.1	200/100	PEP20041010016
STANDARD OUTSIDE DIMENSION RATIO (DR) = 11 (200 PSI)						
3/4"	1.050	0.860	.095	13.5	400/100	PEP07541010014
1"	1.315	1.075	.120	19.9	300/200/100	PEP10041010014
1-1/4"	1.660	1.358	.151	31.4	300/100	PEP12541010014
1-1/2"	1.900	1.554	.173	41.1	300/100	PEP15041010014
2"	2.375	1.943	.216	65.9	200/100	PEP20041010014

CONFORMS TO THE FOLLOWING APPLICABLE STANDARDS

NSF	Listed Under Standard 14 & 61 for Potable Water
ASTM D3350	Cell Classification 445576A (A= Raw Material before processing)
ASTM D2737, D2239 & D3035	Meets PE 4710 Requirements
AWWA C901	Conforms as 250 PSI & 200 PSI
BOCA	Conforms as 250 PSI & 200 PSI

WARRANTY
Certification of Purity and Lifetime Warranty. See Warranty for Details.

CORPORATE HEADQUARTERS
60 Green Pond Road
Rockaway, NJ 07866
800-443-6368 • FAX 973-625-4087

ENDOT INDUSTRIES, INC.
www.endot.com • e-mail: info@endot.com

PLANT LOCATIONS
Greenville, TN
Pryor Creek, OK

11/13 1M

ENDOPRENE SERVICE LINE SPECIFICATIONS

SCALE: NONE

SCALE VERIFICATION	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	MAP				
	APPROVED BY	ADG				
	ISSUE DATE	SEPTEMBER 2023				
	PROJECT NUMBER	256822-04-001				

ANDREW D. GORDON REGISTERED No. 10809017 STATE OF INDIANA PROFESSIONAL ENGINEER 09/27/2023

WESSLER ENGINEERING
More than a Project™

DIVISION 1: WATER MAIN REPLACEMENT

TOWN OF BROWNSBURG, INDIANA

MISCELLANEOUS DETAILS

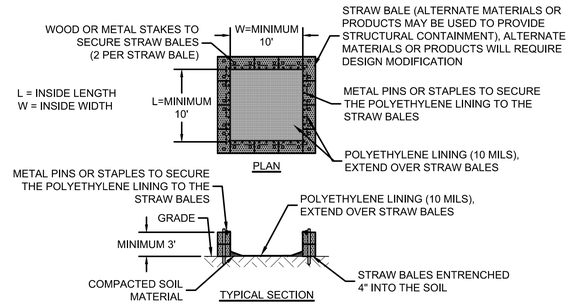
SHEET NO. **18**

TOTAL SHEETS 19

EROSION CONTROL SCHEDULE

CONSTRUCTION ACTIVITY	SCHEDULE CONSIDERATION
PRECONSTRUCTION ACTIVITIES: POST THE FOLLOWING INFORMATION NEAR THE MAIN ENTRANCE OF THE PROJECT SITE OR AT A PUBLICLY ACCESSIBLE LOCATION: NOTICE OF INTENT (NOI) DOCUMENT, COPY OF THE PUBLIC NOTICE, NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT NUMBER, NAME, ADDRESS, AND PHONE NUMBER OF THE LOCAL CONTACT PERSON, AND LOCATION OF A COPY OF THE CONSTRUCTION DRAWINGS AND STORMWATER POLLUTION PREVENTION PLAN (SWP3). MAINTAIN DOCUMENTATION ON-SITE PER SPECIFICATION 02101 FOR THE PROJECT MANAGEMENT LOG. THE SWPPP SHOULD BE ONSITE AND SELF-MONITORING INSPECTION REPORTS MUST BE AVAILABLE WITHIN 48 HOURS OF REQUEST. INFORM OR TRAIN PERSONNEL ASSOCIATED WITH THE PROJECT OF THE TERMS AND CONDITIONS OF THE CSGP AND THE SWPPP REQUIREMENTS.	AUTHORIZATION UNDER THE CSGP IS EFFECTIVE 48-HOURS AFTER SUBMITTAL OF THE NOTICE OF INTENT TO IDEM AND LOCAL AUTHORITY BY THE OWNER.
REVIEW THE EROSION CONTROL SCHEDULE ON THE DRAWINGS AND REVISE AS NEEDED TO PHASE CONSTRUCTION ACTIVITIES TO MINIMIZE THE FOOTPRINT OF DISTURBED UNSTABLE AREAS. SUBMIT A REVISED EROSION CONTROL SCHEDULE AS NEEDED FOR TEMPORARY AND PERMANENT EROSION CONTROL WORK AS APPLICABLE.	COMPLETE BEFORE CONSTRUCTION BEGINS.
CONSTRUCTION ACCESS - ENTRANCE TO SITE, CONSTRUCTION ROUTES, AREAS DESIGNATED FOR EQUIPMENT PARKING OR MATERIAL STAGING AND WASTE HANDLING.	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 AND PERIMETER PROTECTION.	AFTER CONSTRUCTION IS ACCESSED, BASINS SHALL BE INSTALLED, WITH THE ADDITION OF MORE TRAPS AND BARRIERS AS NEEDED DURING GRADING. SET UP PROTECTION FOR NATURAL FEATURES, TREES AND BUFFERS.
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.
SURFACE STABILIZATION - TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, RIPRAP, EROSION CONTROL BLANKET.	APPLY TEMPORARY OR PERMANENT STABILIZING MEASURES IMMEDIATELY TO ANY DISTURBED AREAS WHERE WORK HAS BEEN EITHER COMPLETED OR DELAYED.
CONSTRUCTION - STRUCTURES, UTILITIES, PAVING, CONCRETE WASHOUT, AND CONSTRUCTION ENTRANCES.	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 LAST CONSTRUCTION PHASE. STABILIZE ALL DISTURBED AREAS, INCLUDING BORROW AND SPOIL AREAS, AND REMOVE ALL TEMPORARY CONTROL MEASURES. FINAL STABILIZATION IS WHEN A UNIFORM DENSITY OF 70% VEGETATION COVER IS MET. PROVIDE NOTIFICATION TO THE OWNER WHEN THE ENTIRE SITE HAS BEEN STABILIZED AND ALL CONSTRUCTION MATERIALS, WASTES, AND EQUIPMENT HAVE BEEN REMOVED.

EROSION CONTROL SCHEDULE
SCALE: NONE

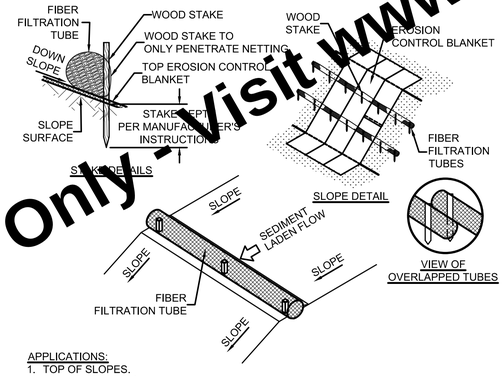


NOTES:
1. LOCATE WASHOUTS AT LEAST 50' FROM ANY CREEKS, WETLANDS, DITCHES, KARST FEATURES, OR STORM DRAIN/CONVEYANCES.

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

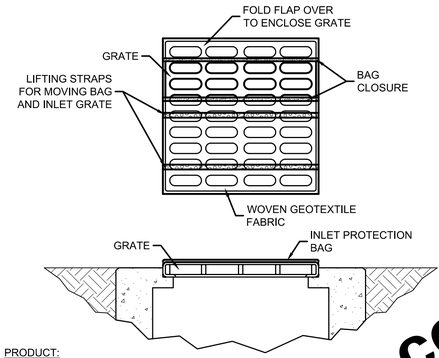


APPLICATIONS:
1. TOP OF SLOPES.
2. AT PROJECT PERIMETER.

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

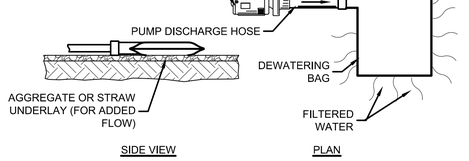


PRODUCT:
1. DANDY BAG, OR APPROVED EQUAL.

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 PIERCE) 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



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/M² (GAL/MIN/FT²)	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.

SOURCE:
KRISTAR
DANDY DEWATERING BAG
SEDCATCH

PUMPING BAG
SCALE: NONE

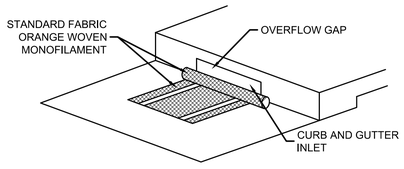
SEASONAL SOIL PROTECTION CHART

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

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" PLANTING DEPTH)
E. = ANNUAL RYEGRASS 40 LB/ACRE (1/4" PLANTING DEPTH)
F. = SOD
G. = ANCHORED STRAW (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.



DESIGN CONFORMS TO ALL SHAPES OF CONCRETE CURBS

PRODUCT:
1. DANDY CURB SACK, OR APPROVED EQUAL.

INSTALLATION:
1. REMOVE THE GRATE FROM THE CATCH BASIN AND STAND ON END.
2. CRADLE THE GRATE BETWEEN THE UPPER AND LOWER STRAPS.
3. INSERT THE GRATE INTO THE INLET WITH THE LIFTING DEVICES. LOWER BACK EDGE WITH TUBE INTO PLACE. TUBE SHOULD PARTIALLY BLOCK THE CURB HOOD OPENING.

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

CURB AND GUTTER INLET PROTECTION
SCALE: NONE

SCALE VERIFICATION	DRAWN BY	MRE
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	MAP
	APPROVED BY	ADG
	ISSUE DATE	SEPTEMBER 2023
	PROJECT NUMBER	256822-04-001

NO.	DATE	INITIALS	REVISION DESCRIPTIONS

ANDREW D. GORDON REGISTERED No. 10809017 STATE OF INDIANA PROFESSIONAL ENGINEER
09/21/2023

WESSLER ENGINEERING
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DIVISION 1: WATER MAIN REPLACEMENT

TOWN OF BROWNSBURG, INDIANA

EROSION CONTROL DETAILS

SHEET NO. **19**

TOTAL SHEETS 19