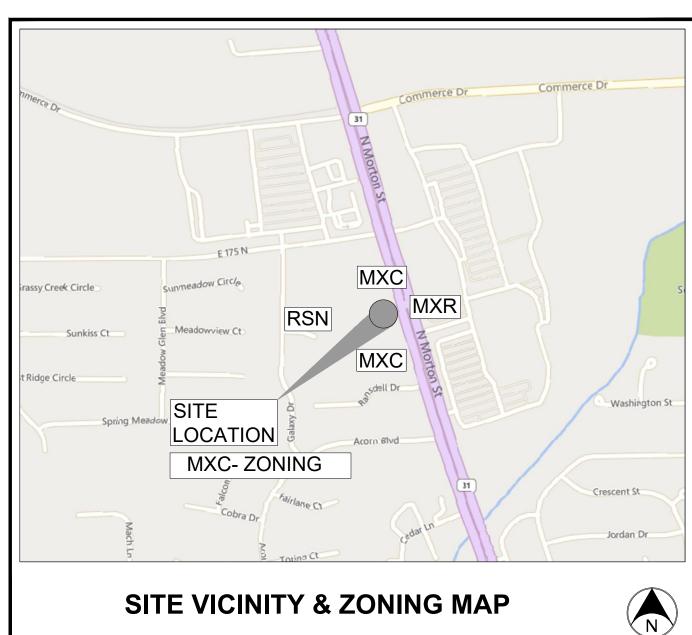
CONSTRUCTION PLANS FOR:

HUBLER FORD DEALERSHIP

2140 N MORTON ST.

CITY OF FRANKLIN, JOHNSON COUNTY, INDIANA SECTION 10, TOWNSHIP 12N, RANGE 4E





PLANS PREPARED FOR:

BDH REALTY
8220 SOUTH US 31
INDIANAPOLIS, INDIANA 46227
Contact Person: John Haines
317-716-6636
JHAINES@DRIVEHUBLER.COM

OPERATING AUTHORITIES

_	CITY OF FRANKLIN PLANNING 70 E. Monroe St. Franklin, In. 46131 (877) 736-3631	CITY OF FRANKLIN ENGNEERING 70 E. Monroe St. Franklin, In. 46131 (877) 736-3631	CITY OF FRANKLIN STREET DEPT. 2871 N Morton St Franklin, IN 46131 (317) 736-3660	CITY OF FRANKLIN STORMWA 796 S State St Franklin, IN 46131 (317) 736-3640
	VECTREN 1630 N. Meridian Indianapolis, Indiana 46202 (317) 718-3604	COMCAST 5330 E. 65th Street Indianapolis, IN 46220 (317) 275-6356	AT&T 240 N. Meridian Street Indianapolis, Indiana 46204-1915 (317) 722-2299	DUKE ENERGY 1000 East Main Street Plainfield, Indiana 46168 (800) 521-2232
	ZAYO BANDWIDTH 1805 29th St, Suite 2050 Boulder, CO 80301 (866) 364-6033	CENTURYLINK 1147 N Morton Street Franklin, IN 46131 (317) 561-5166	JOHNSON COUNTY R.E.M.C. 750 International Drive P.O. Box 309 Franklin, Indiana 46131 (317) 736-6174	INDIANA AMERICAN WATER 153 N. Emerson avenue Greenwood, Indiana 46143 (800) 492-8373

GENERAL NOTES

- 1. The construction plans shall govern over any other form of media, which includes digital files of this project.
- 2. The contractor shall be responsible for obtaining or verifying that all permits and approvals are obtained from the respective city, county, state & federal agencies prior to starting construction.
- 3. It shall be the contractors responsibility to determinate the exact location of all existing utilities in the vicinity of the construction area prior to starting construction. Once all utilities have been located, it will be the contractor's responsibility to maintain in service all existing utilities encountered during construction unless otherwise indicated in the construction drawings.
- 4. Before working with or around existing utilities, the applicable utility company shall be contacted by the contractor. It shall be the
- contractor's responsibility to notify and coordinate construction with all respective utilities.

 5. All construction methods and materials must conform to current standards and specifications for the governing municipality requirements.
- 6. Maintenance of traffic needed for this project shall be installed and maintained per INDOT specifications and the indiana MUTCD Manual.7. The contractor shall be responsible for all field dimensions and shall verify all dimensions on the site prior to start of construction. If any
- discrepancies are found in these plans from actual field conditions, the contractor shall notify the engineer immediately.

 8. All quantities given on these construction plans or in the scope of work section are estimates and shall be confirmed by the bidding
- contractors.

 9. It shall be the responsibility of the developer and contractor to maintain quality control throughout this project.
- 10. Bearings, dimensions, and easements are shown for reference only. See record surveys and plats for exact information.

FLOOD ZONE:

The project site is located within the FEMA Community Panel Map #18081C0139E dated January 29, 2021. Review of the map indicates the site is located within the Flood Designation 'Zone X' (unshaded). The proposed improvements are not located in Special Flood Hazard Area and are therefore not subject to Flood Control Ordinance requirements.

CITY OF FRANKLIN CONSTRUCTION STANDARDS AND SPECIFICATIONS, LATEST EDITION, TO BE USED AS SUPPLEMENTAL INFORMATION WITH THESE PLANS.

INDIANA STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, LATEST EDITION, TO BE USED AS SUPPLEMENTAL INFORMATION WITH THESE PLANS.

SITE DATA:

TOTAL SITE ACREAGE - 5.35 AC
TOTAL ACREAGE OF DISTURBANCE - 5.0 AC
GROSS SQUARE FOOTAGE OF BUILDING - DEALERSHIP - 27,500 SF
PROPOSED CONSTRUCTION START - NOVEMBER 1, 2021

PROPOSED CONSTRUCTION START - NOVEMBER 1, 2021
PROPOSED CONSTRUCTION END - NOVEMBER 1, 2023
WORK IS SCHEDULED TO BE COMPLETED IN ONE CONTINUOUS
CONSTRUCTION PHASE

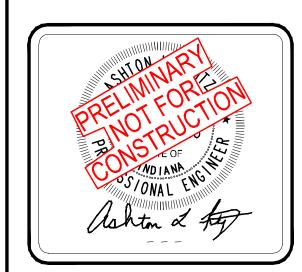
BENCHMARK:

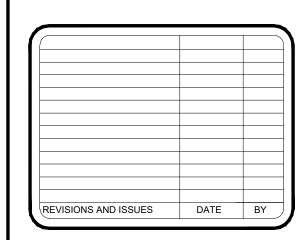
BENCH MARK (NAVD88):
TBM 1: 756.76' - MAGNAIL SET ±1' AG IN N SIDE OF PWP AT N END OF SITE
TBM 2: 758.72' - CUT "X" ON LIGHT POLE BASE SOUTH END OF SITE

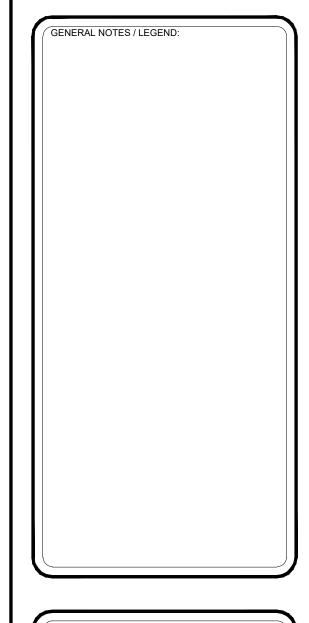
BENCHMARK DATA PROVIDED BY HAMILTON DESIGNS, INC.

	PLAN SHEET INDEX					
SHEET NUMBER	SHEET TITLE					
C100	COVER SHEET					
C101	GENERAL INFORMATION PLAN					
C102	EXISTING CONDITIONS - DEMOLITION PLAN					
C201	SITE DEVELOPMENT PLAN					
C301	GRADING PLAN					
C401	UTILITY PLAN					
C402	STORM DATA, PLAN & PROFILE					
C403	STORM PLAN & PROFILE					
C404	STORM PLAN & PROFILE					
C501	EROSION CONTROL & SWPPP					
C502	EROSION CONTROL DETAILS					
C504	EROSION CONTROL DETAILS					
C505	SWPPP SPECIFICATIONS					
C701	WATER MAIN PLAN & PROFILE					
C801	GENERAL DETAILS					
C802	GENERAL DETAILS					
C803	WATER DETAILS					
C804	WATER DETAILS					
C805	SANITARY DETAILS					
C901	GENERAL SPECIFICATIONS					
L101	LANDSCAPE PLAN					
L102	LANDSCAPE DETAILS					









HUBLER FORD DEALERSHIP

PROJECT LOCATION:

2140 N MORTON ST.

FRANKLIN, INDIANA 46131

JOHNSON COUNTY

SECTION, TOWNSHIP, RANGE:

NE \(\frac{1}{4} \), S10, T12N, R4E

BDH REALTY

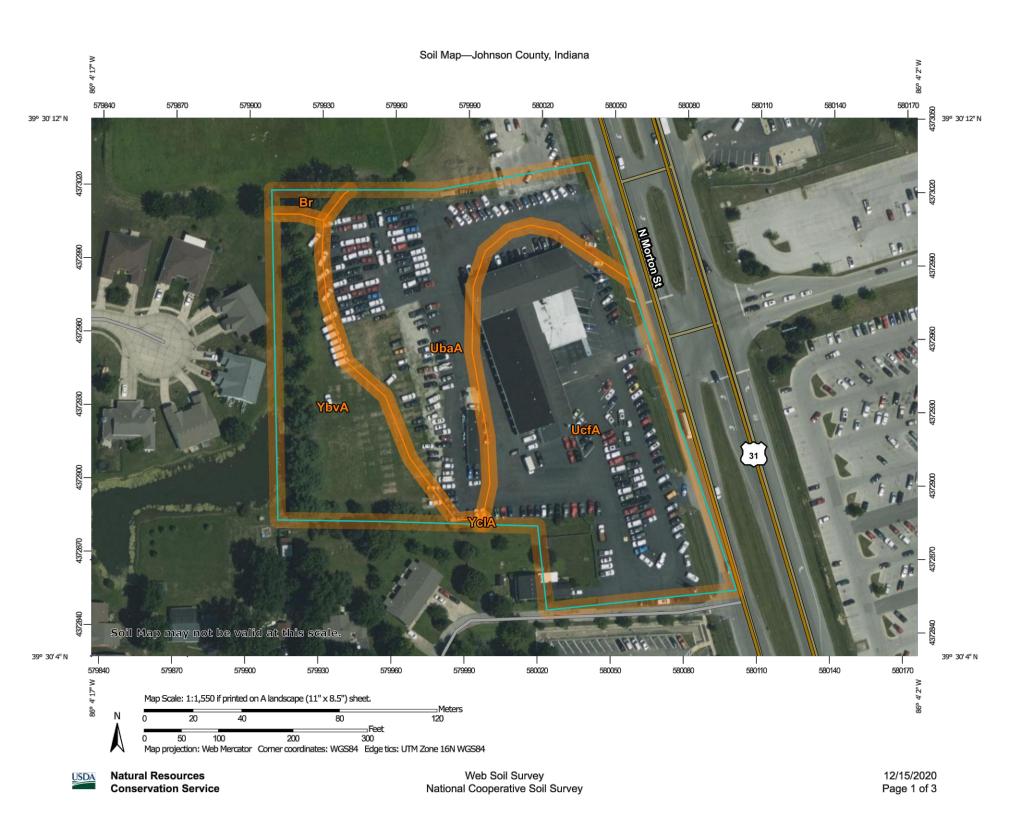
8220 SOUTH US 31

INDIANAPOLIS, INDIANA 46227

COVER SHEET

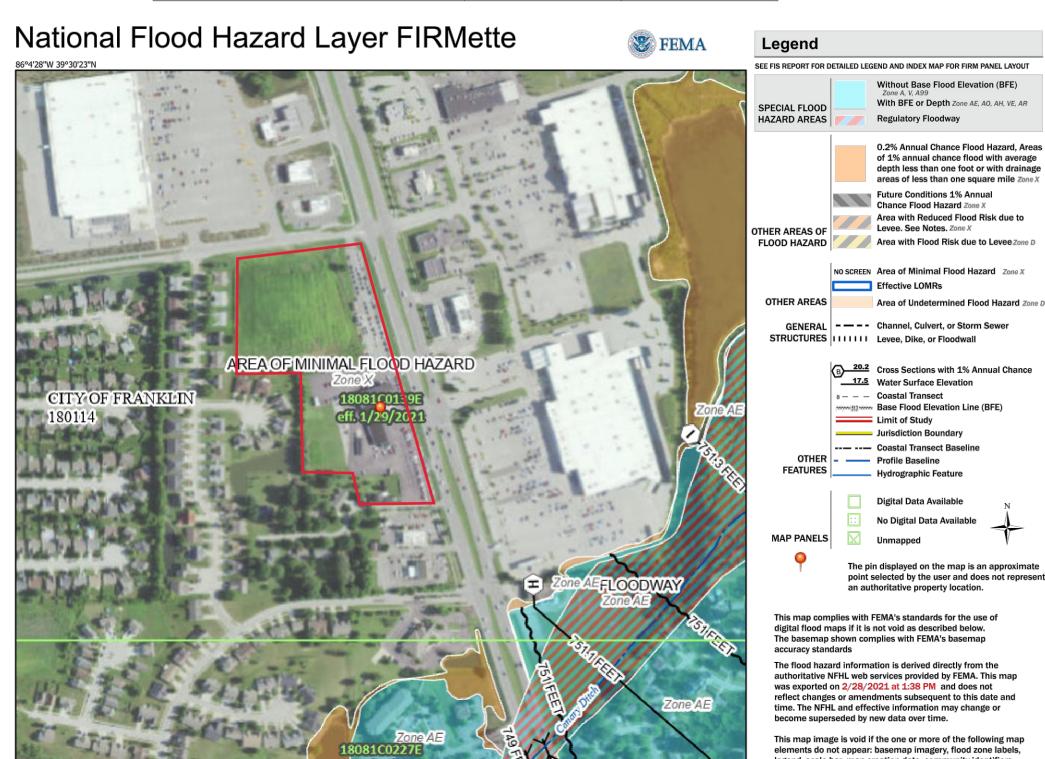
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PRINTED BY: Ashton Fritz
DATE: 8/11/2021 3:00 PM
SHEET SEE, SGLEE, ANS FULL BLEED D (34.00 X 22.00 INCHES), 1:1
ELLE TAKE: SCHELE, ANS FULL BLEED D (34.00 X 22.00 INCHES), 1:1



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Br	Brookston silty clay loam, 0 to 2 percent slopes	0.1	1.2%
UbaA	Urban land-Brookston complex, 0 to 2 percent slopes	1.9	32.6%
UcfA	Urban land-Crosby silt loam complex, fine-loamy subsoil, 0 to 2 percent slopes	2.8	46.1%
YbvA	Brookston silty clay loam- Urban land complex, 0 to 2 percent slopes	1.2	20.1%
YclA	Crosby silt loam, fine-loamy subsoil-Urban land complex, 0 to 2 percent slopes	0.0	0.0%
Totals for Area of Interest	'	6.0	100.0%



ABBREVIATIONS AND TERMS

STR

RD&UE

D&UE

SD&UE

W&UE

		SECTION MONUMENT	-(1)	UTILITY POLE	\	FIRE HYDRANT
= INVERT ELEVATION	 	BENCHMARK	•	STRAIN POLE	(W)	WATER MANHOLE
= TOP OF CURB			_	POWER POLE	Ŵ	WELL
= RIM / TOP OF CASTING		PROPERTY MONUMEN	IT 🛎	LIGHT POLE	₩	WATER VALVE
= GUTTER		STAND PIPE	•	TELEPHONE POLE	.SV	SPRINKLER VALVE
= REINFORCED CONCRETE PIPE		POST	•	GUY POLE		SPRINKLER
= HIGH DENSITY POLYETHYLENE PIPE	AC	AIR CONDITIONER	TB	TELEPHONE BOOTH		WATER SPIGOT
= SUB-SURFACE DRAIN	ST	STORAGE TANK	T	TELEPHONE RISER	M	MONITORING WELL
= UNDERDRAIN		SEPTIC TANK	\bigcirc	TELEPHONE MANHOLE		WATER MATER
= MANHOLE	GP	GREASE PIT TANK	TV	CABLE RISER	G	GAS MANHOLE
= STRUCTURE	F	FOUNTAIN	(1)	CABLE MANHOLE	(GW)	GAS STORAGE WELL
= REGULATED DRAIN AND UTILITY		SHRUB	ф	LOOP DETECTOR	©	GAS METER
EASEMENT	P(STUMP	0	LOOP DETECTOR HOUSING	G	NATURAL GAS WELL
= DRAINAGE AND UTILITY EASEMENT	7	SATELITE DISH	S	SANITARY MANHOLE	ĞV	GAS VALVE
= SANITARY, DRAINAGE, AND UTILITY		ANTENNA	(W)	WET WELL	PT	PROPANE TANK
EASEMENT = WATER AND UTILITY EASEMENT		COAL CHUTE	(S)	LIFT STATION	$^{\odot}$	PETROLEUM TEST WELL
11		GUY WIRE	€W	FORCE MAIN MANHOLE	₽ ©	PETROLEUM VALVE
= SANITARY EASEMENT	T	SIGN		CLEAN OUT	®	TRAFFIC MANHOLE
= SANITARY SEWER		CROSS LIGHT	©	COMBINATION MANHOLE	$\stackrel{\text{(HH)}}{=}$	HAND HOLE
= HANDICAP RAMP	, - <u></u> ∠	GROUND LIGHT		STORM MANHOLE		CONTROLLER CABINET
= MATCH EXISTING		FLAG POLE		CURB INLET		TRAFFIC SIGNAL
= STORM SEWER		MAST ARM POLE		CATCH BASIN	(E)	ELECTRIC MANHOLE
= MINIMUM PAD ELEVATION				DROP INLET	E	ELECTRIC RISER
= NORMAL POOL			☐ FG	END SECTION	EM	ELECTRIC METER
= ELEVATION			!	FLAP GATE		TRANSFORMER
= TYPICAL		×× BA	ADD 14/15	DOWN SPOUT	lä.	ELECTRIC OUTLET
= PROPOSED			ARB-WIF	RE FENCE TV		CABLE TV LINE** ELECTRIC LINE**
= EXISTING				/EN FENCE ——— FO ——		FIBER OPTIC LINE
= RADIUS				NK FENCE === == ==		STORM SEWER
= BACK TO BACK			RON FEN			SANITARY SEWER
= RIGHT OF WAY			RIVACY		_	FORCE MAIN
= LINEAR FEET			UARD R			GAS LINE
= DRAINAGE EASEMENT			LOW LIN	-		TELEPHONE LINE**
				RUB LINE — W——		WATER LINE
				••		·

STORM STRUCTURE NUMBER

PROPOSED LEGEND FLOW LINE, PAVEMENT — FD — FOUNDATION DRAIN ADAPTER ——— TV ——— CABLE TV LINE** ELECTRIC LINE** BEND TEMP. FLUSH HYDRANT — FO — FIBER OPTIC LINE BLOW-OFF SUB-SURFACE DRAIN STORM UNDERDRAIN THRUST BLOCK STORM SEWER PLUG REDUCER SANITARY SEWER CROSS ——— G——— GAS LINE WATER METER TELEPHONE LINE** POST INDICATOR VALVE WATER LINE FIRE CONNECTION ----- 8"W -----TRANSFORMER PAD **PREFIX FOR UTILITY LINES: UG - UNDERGROUND RELOCATED ELECTRIC/TELEPHONE POLE OH - OVERHEAD HANDICAP PARKING FLOW ARROW CLEAN OUT EXISTING CONTOURS PROPOSED CONTOURS STORMTECH STORM CHAMBER SANITARY MANHOLE E:XXX.XX FLOW LINE ELEVATION SPOT ELEVATION STORM MANHOLE (XXX.XX H.P.) HIGH POINT ELEVATION STORM COMBINATION INLET (XXX.XX L.P.) LOW POINT ELEVATION STORM GRATE INLET TOP/BOTTOM TC:XXX.XX STORM BEEHIVE/YARD DRAIN lBC:XXX.XX CURB ELEVATION TOP/BOTTOM STORM END SECTION TW:XXX.XX WALL ELEVATION BW:XXX.XX BMP/AQUA-SWIRL

**PREFIX FOR UTILITY LINES:

ME - MATCH EXISTING GRADE

UG - UNDERGROUND

OH - OVERHEAD

SURVEY/EXISTING

CONDITION LEGEND

SURVEY NOTES:

- 1) The utilities indicated on these construction plans and on the survey may not be a compete inventory of all existing utilities currently on or near the site. The size and location of these utilities may be approximate. The engineer shall not be held liable for any inaccurate utility information indicated, or not indicated on this survey.
- 2) Topographic information provided herein was obtained by field work performed by another firm and provided to Fritz Engineering Services, LLC. Fritz Engineering Services, LLC shall not be responsible for any existing conditions shown within this set of plans.

DEMOLITION NOTES:

- 1) It shall be the responsibility of the contractor to remove any materials and/or structures not located on this
- 2) It shall be the responsibility of the contractor to verify all existing utilities and their locations pertaining to their phase of work, and to verify which utilities will be removed by the utility company. Any and all utilities not removed by the utility company shall be removed by the contractor.
- 3) Utility locations shown are approximate and shall be relocated and/or capped at the Right-Of-Way line and abandoned before construction at no additional cost to the owner.
- 4) The owner gets the first right of salvage.
- 5) All demolition material not being salvage shall be properly disposed of offsite by the contractor.
- 6) The contractor shall obtain all demolition permits required by the local and state agencies.
- 7) The contractor shall maintain streets and shared drives free and clear of sediment and debris.
- 8) The contractor is responsible for the protection of all existing utility lines unless otherwise stated.
- 9) Contractor shall coordinate all temporary shut down of existing utility services with the appropriate utility department, owner, authority, etc.
- 10) Contractor shall coordinate any necessary street or drive closures required.

SITE/LAYOUT NOTES:

- 1) See architectural plans for all building dimensions. Any dimensions shown herein shall be considered
- 2) All dimensions are to edge of pavement or face of curb, unless noted otherwise.
- 3) All dimensions are to face of brick or facing material, unless noted otherwise.
- 4) All parking area stripes are to be 4" white paint. Handicapped parking areas and access aisles shall be 4"
- 5) Provide smooth transitions from new areas to existing features as appropriate.
- 6) The edge of existing asphalt pavement shall be properly sealed with a tack coat material in all areas where new asphalt pavement is indicated to join existing pavement.
- 7) Provide chamfer ends at curbs.
- 8) Verify sign locations & sign requirements with local governing municipality.

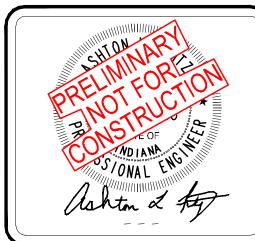
GRADING NOTES:

- 1) Earthwork & grading shall not start until erosion control measures have been properly installed.
- 2) Occupational safety and health administration (OSHA) standards for excavations; final rule 29 cfr part 1926, subpart "p" applies to all excavations exceeding five (5) feet in depth.

3) Provide positive drainage that assures no ponding in all areas. After installation, contractor to test for, and

- correct, in any, standing water conditions are present.
- 4) All proposed spot elevations are the final pavement and grade elevations. See appropriate details and specifications to determine the subgrade elevations below finish grade elevations for construction.
- 5) All sanitary manholes in non-paved areas shall be 3" above grade.
- 6) The maximum slope to be used in non-paved areas shall be 3:1.
- 7) All A.D.A. parking spaces & access aisles shall be level with surface slopes not to exceed 2% (1:50) in any direction as which to comply with A.D.A requirements.
- 8) All sidewalks cross slopes shall not exceed 2% (1:50) unless noted otherwise.
- 9) Provide smooth transitions from new areas to existing features as appropriate.

Fritz Engineering Services, LLC 14020 Mississinewa Drive Carmel, Indiana 46033 P: 317.324.8695 F: 317.324.8717 www.Fritz-Eng.com



REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

HUBLER FORD DEALERSHIP

2140 N MORTON ST. FRANKLIN, INDIANA 46131 JOHNSON COUNTY SECTION, TOWNSHIP, RANGE: $NE \frac{1}{4}$, S10, T12N, R4E

BDH REALTY

"IT'S THE

Know what's below.

Call before you dig.

2 WORKING DAYS BEFORE YOU DIG.

8220 SOUTH US 31 INDIANAPOLIS, INDIANA 46227

PLAN DATE: 8/11/2021 DESIGN: AF PROJECT NO. 2006003 SHEET NAME

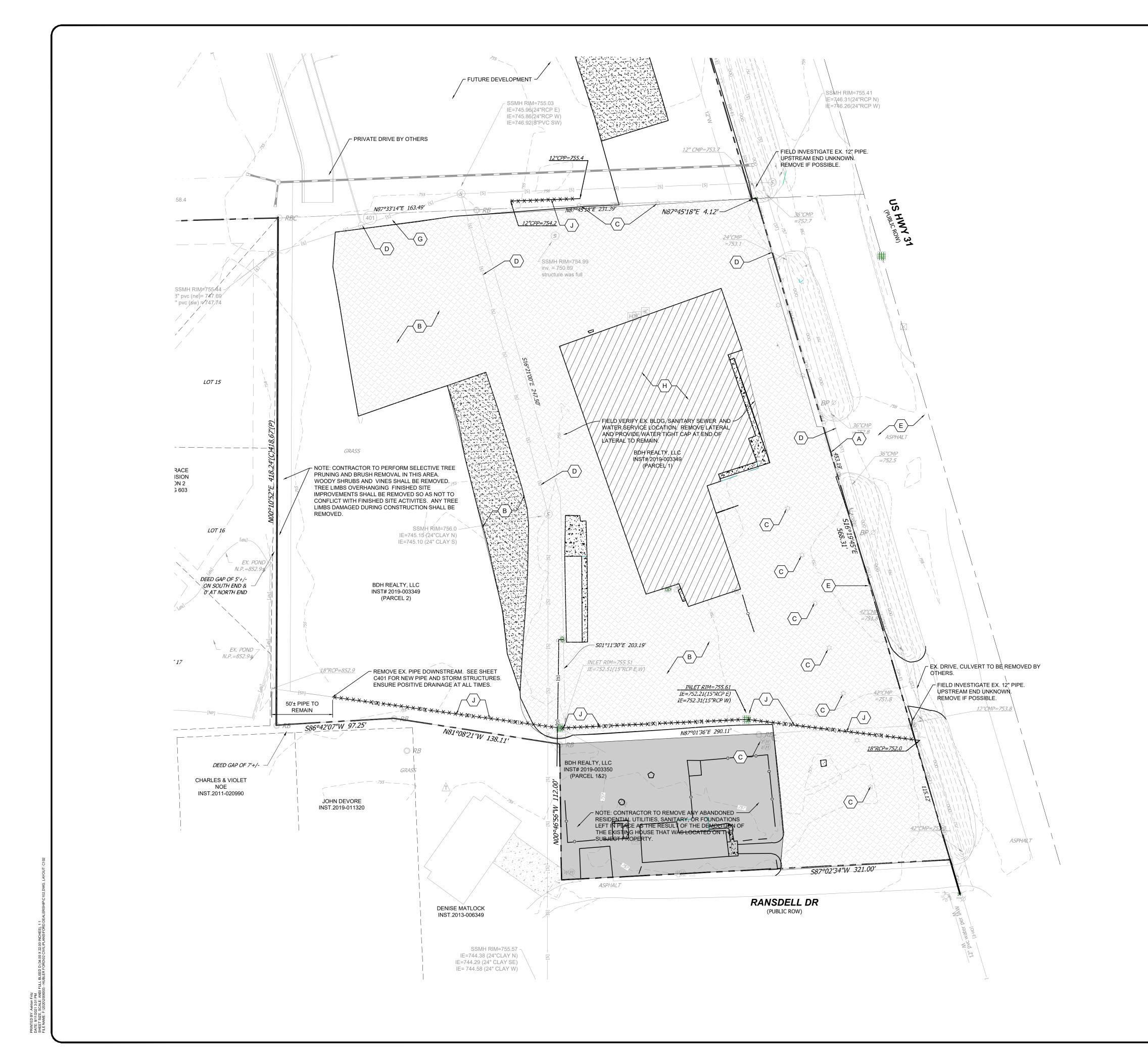
GENERAL INFORMATION PLAN

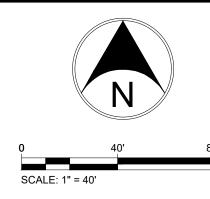
C101

0 250 500

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020 FLOOD MAP

elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.





KEY NOTES:

- A SAW CUT PAVEMENT/CURB/CONCRETE
- B REMOVE EX. PAVEMENT
- C REMOVE/RELOCATE EX. UTILITY, COORD. WITH SERVICE PROVIDER
- D PROTECT EX. UTILITY THROUGHOUT CONSTRUCTION
 E EXISTING PAVEMENT/SIDEWALK TO REMAIN
- F EXISTING TREE TO REMAIN IN PLACE

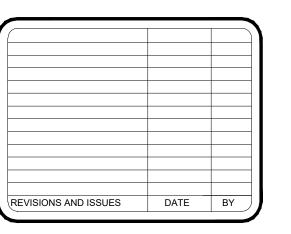
 (PROVIDE TREE PROTECTION FENCING PRIOR TO LAND DISTURBANCE
- G REMOVE EXISTING TREE
- H REMOVE EX. BUILDING, STRUCTURE, FOUNDATIONS, COMPLETE
- J REMOVE EX. STORM PIPE/STRUCTURE. REF. C401-404 FOR NEW STORM PIPE.

NOT

 SEE SHEET C501 FOR ALL INITIAL EROSION CONTROL MEASURES REQUIRED BEFORE LAND DISTURBANCE ACTIVITIES.







GENERAL NOTES / LEGEND:



HUBLER FORD DEALERSHIP

PROJECT LOCATION:

2140 N MORTON ST.

FRANKLIN, INDIANA 46131

JOHNSON COUNTY

SECTION, TOWNSHIP, RANGE:

NE \(\frac{1}{4}, \) S10, T12N, R4E

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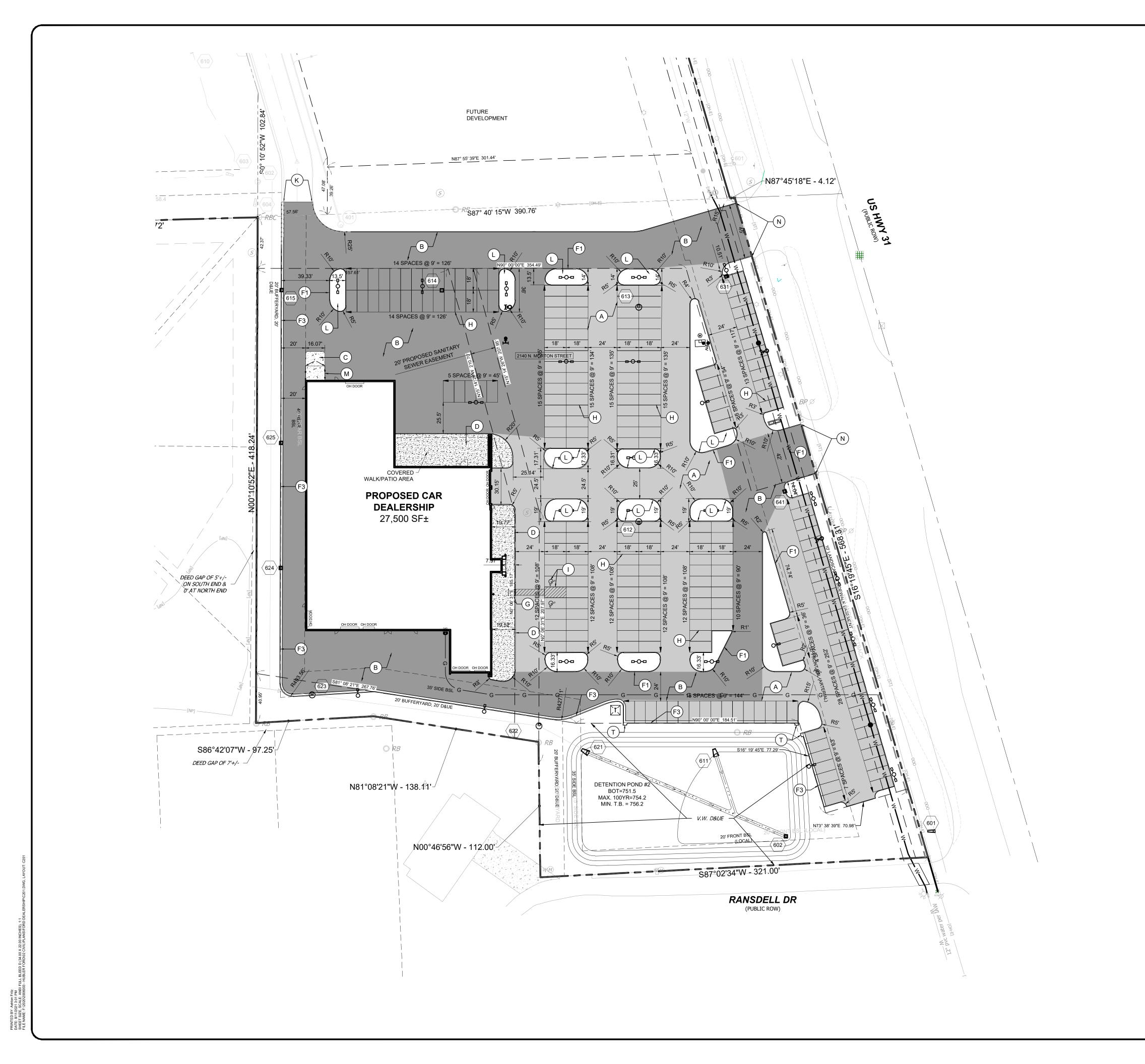
8220 SOUTH US 31 INDIANAPOLIS, INDIANA 46227

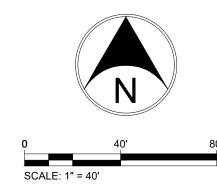
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PROJECT NO. 2006003

EXISTING CONDITIONS
DEMOLITION PLAN





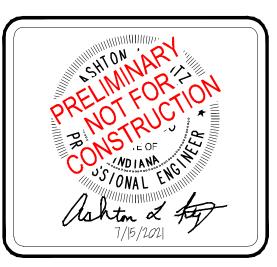
KEY NOTES: ⊗

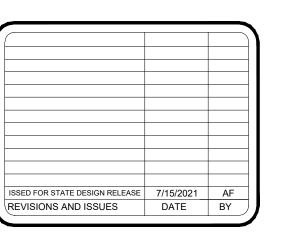
- A LIGHT DUTY ASPHALT PAVEMENT
- B HEAVY DUTY ASPHALT PAVEMENTC CONCRETE PAVEMENT
- D COMBINED CONCRETE CURB & WALK
- E CONCRETE WALK
- F1 6" CONCRETE CURB
- F2 VALLEY CURB & GUTTER
- F3 CHAIRBACK CURB & GUTTER
- F4 6" CONCRETE CURB WITH CONCRETE ISLAND
- G ADA RAMP (PER INDOT DETAIL)
- H 4" WHITE PAVEMENT STRIPING, TYP.
- I ADA BLUE PAVEMENT STRIPING, TYP.
- J PAVEMENT MARKING (AS SHOWN)

 K MATCH EXISTING PAVEMENT, CURB, OR WALK
- L LANDSCAPE AREA
- M DUMPSTER ENCLOSURE (REF. ARCH. PLAN)
- N EXISTING SIDEWALK/PAVEMENT TO REMAIN
- O SIDEWALK TRANSITION AT DRIVE (PER INDOT DETAIL)
- P BICYCLE PARKING
 (U-SHAPED, BLACK THERMOPLASTIC POWDER COATED)
- Q FLUSH CURB / CURB TAPER
- R MONUMENT SIGN (REF. SIGNAGE PLANS)
- S CONCRETE WHEEL BLOCK
- T CURB TURNOUT

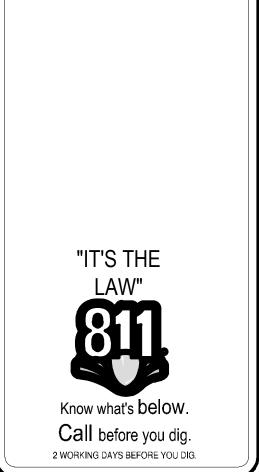
NOTES:







GENERAL NOTES / LEGEND:



HUBLER FORD DEALERSHIP

PROJECT LOCATION:

2140 N MORTON ST.

FRANKLIN, INDIANA 46131

JOHNSON COUNTY

SECTION, TOWNSHIP, RANGE:

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8220 SOUTH US 31 INDIANAPOLIS, INDIANA 46227

 8/11/2021

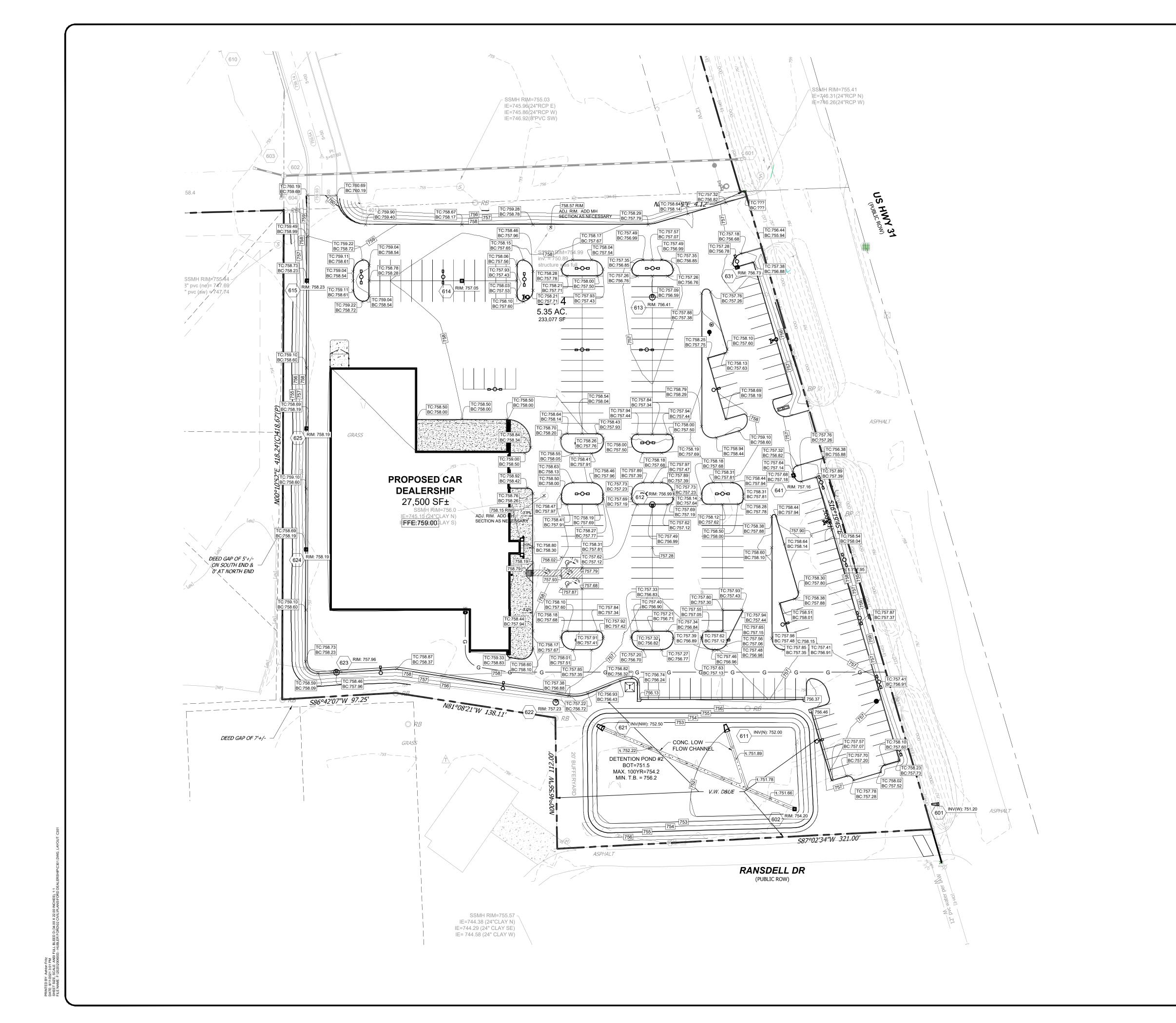
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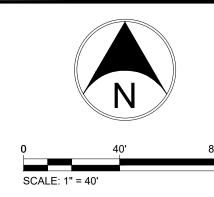
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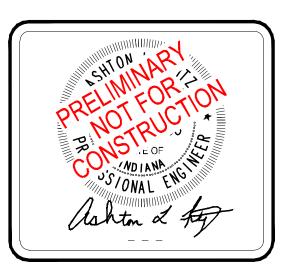
2006003
SHEET NAME
SITE DEVELOPMENT

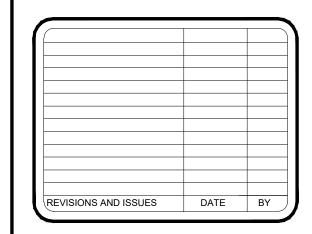
PLAN











GENERAL NOTES / LEGEND:



HUBLER FORD DEALERSHIP

2140 N MORTON ST.
FRANKLIN, INDIANA 46131
JOHNSON COUNTY
SECTION, TOWNSHIP, RANGE:
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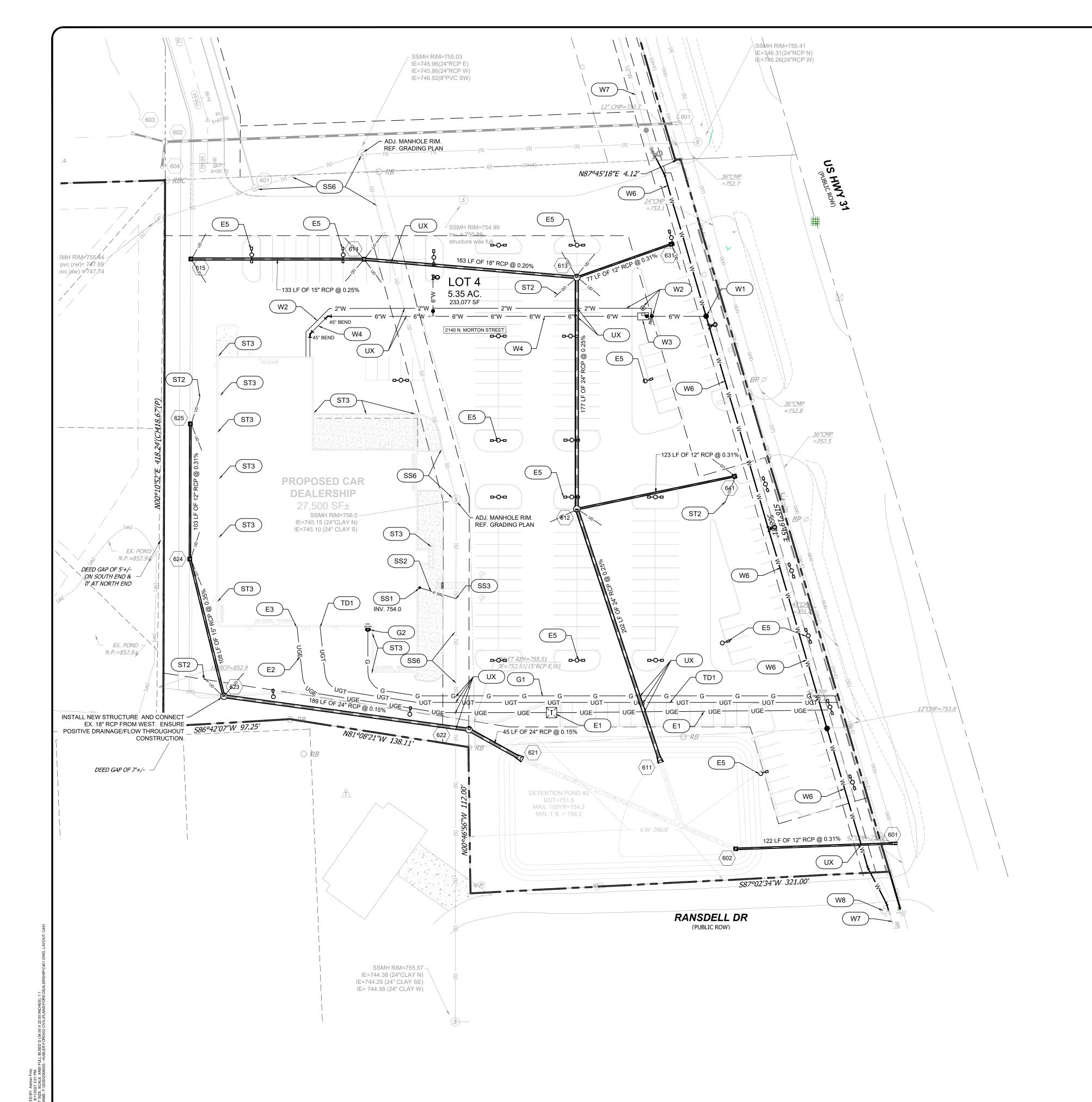
BDH REALTY

8220 SOUTH US 31 INDIANAPOLIS, INDIANA 46227

PROJECT NO. 2006003

SHEET NAME

GRADING PLAN



KEY NOTES:

- E1 ELECTRIC NEW TRANSFORMER, COORD. NEW SERVICE LINE WITH MEP PLANS AND POWER COMPANY.
- E2 ELECTRIC SECONDARY CONDUIT, COORD. WITH MEP PLANS FOR SIZE AND CABLE REQUIRED.
- E3 ELECTRIC COORDINATE POWER DISTRIBUTION ONSITE WITH MEP/SITE ELECTRICAL PLAN.
- ELECTRIC EXISTING POWER POLE AND DISTRIBUTION LINES. PROTECT THROUGHOUT CONSTRUCTION.
- E5 ELECTRIC PR. SITE LIGHTING. COORDINATE WITH SITE LIGHTING PLANS. ADJUST PER PROPOSED UTILITIES/STORM STRUCTURE LOCATIONS.
- G1 GAS SERVICE LINE, COORD. SIZE & LOCATION WITH MEP PLANS AND GAS CO.
- G2 GAS METER, COORD WITH MEP PLANS & GAS CO.
- SS1 SANITARY BLDG. CLEANOUT PER FRANKLIN SANITARY DISTRICT, SEE PLAN
- SS2 SANITARY 6" SDR 26 PVC LATERAL @ 1.04% MIN.
- SS3 SANITARY CONNECT LATERAL TO EX. SANITARY MAIN PER FRANKLIN SANITARY STANDARDS. CONTRACTOR SHALL COORDINATE CONNECTION WITH FRANKLIN SANITARY DISTRICT PRIOR TO CONSTRUCTION. DEEP CONNECTION MIGHT BE REQUIRED.
- SS4 SANITARY NEW SANITARY MANHOLE
- SS5 SANITARY CLEANOUT PER FRANKLIN SANITARY STANDARDS. SEE PLAN FOR
- SS6 SANITARY EXISTING SANITARY SEWER STRUCTURE/MAIN TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
- ST1 STORM PR. STRUCTURE, REF.
 - STORM STRUCTURE TABLE
- ST2 STORM 20 LF 6" PERFORATED UNDERDRAIN AT 1% TOWARDS INLET ST3 STORM - ROOFDRAIN DISCHARGE TO GRADE. REF. ARCH./MEP PLANS FOR
- EXACT LOCATIONS.
- REF. C402 FOR STORM STRUCTURE & STORM PIPE DATA TABLES.
- W1 WATER PR. 6" FIRE SERVICE TAP ON NEW WATER MAIN. WATER MAIN SHALL BE INSTALLED, TESTED AND ACCEPTED BY WATER CO. PRIOR TO TAP.
- W2 WATER PR. 2" DOMESTIC SERVICE VALVE, METER VAULT WITH 1.5" METERS PER INDIANA AMERICAN WATER STANDARDS. COORDINATE SIZE/LOCATION
- W3 WATER FIRE SERVICE VAULT PER INDIANA AMERICAN WATER STANDARDS. COORDINATE SIZE/LOCATION WITH MEP PLANS.
- W4 WATER 6" FIRE SERVICE, PVC C900, DR9.
- W5 WATER 6" TEE, HYDRANT BRANCH AND VALVE ON 6" FIRE SERVICE.
- W6 WATER PR. WATER MAIN. REF. C701 FOR WATER MAIN INFORMATION.
- W7 WATER EX. WATER MAIN TO REMAIN. PROTECT THROUGHOUT CONSTRUCITON.
- W8 WATER EX. FIRE HYDRANT TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
- TD1 TELE/DATA PR. TWO (2) 4" CONDUITS FOR TELEPHONE, DATA SERVICES. COORDINATE WITH OWNER AND SERVICE PROVIDERS.
- UX UTILITY CROSSING, APPROX. LOCATION SHOWN. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL EX. UTILITIES WITHIN AREA OF WORK PRIOR TO CONSTRUCTION. ENGINEER SHALL BE NOTIFIED OF ANY POTENTIAL CONFLICTS FOUND.

1. UTILITY CROSSINGS UNDER EX. PAVEMENT SHALL BE BORED OR JACK & BORED. OPEN CUTS SHALL BE AVOIDED.

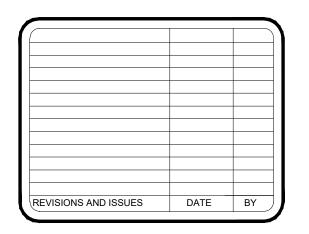
- 2. ALL PROPOSED END SECTIONS SHALL HAVE ANIMAL GUARDS INSTALLED.
- 3. ALL STORM INLET CASTINGS SHALL INCLUDE A FISH LOGO AND "DUMP NO WASTE-DRAINS TO STREAM".



SCALE: 1" = 40'

Fritz Engineering Services, LLC 14020 Mississinewa Drive Carmel, Indiana 46033 P: 317.324.8695 F: 317.324.8717 www.Fritz-Eng.com





GENERAL NOTES / LEGEND:

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2140 N MORTON ST. FRANKLIN, INDIANA 46131 JOHNSON COUNTY SECTION, TOWNSHIP, RANGE: $NE \frac{1}{4}$, S10, T12N, R4E

BDH REALTY

8220 SOUTH US 31 INDIANAPOLIS, INDIANA 46227

PLAN DATE: 8/11/2021 DESIGN: AF PROJECT NO. 2006003

SHEET NAME **UTILITY PLAN**

	STORM STRUCTURE DATA TABLE				
STRUCTURE I.D.	RIM ELEVATION	NEENAH CASTING DESIGNATION	INFLOW INV, SIZE, (DIRECTION), [UPSTREAM STR.]	OUTFLOW INV, SIZE, (DIRECTION), [DOWNSTREAM STR.]	DESCRIPTION & NOTES
641	757.16	R-3286-8V		INV:754.00 12" RCP (W)[612]	2'x2' BOX
631	756.73	R-3286-8V		INV:753.60 12" RCP (W)[613]	2'x2' BOX
625	758.19	R-3286-8V		INV:755.00 12" RCP (S)[624]	2'x2' BOX
624	758.19	R-3286-8V	INV:754.68 12" RCP (N)[625]	INV:754.43 15" RCP (S)[623]	2'x2' BOX
623	757.96	R-3010	INV:754.05 15" RCP (N)[624]	INV:752.85 24" RCP (E)[622]	48" DIA. MH
622	757.23	R-1772	INV:752.57 24" RCP (W)[623]	INV:752.57 24" RCP (SE)[621]	48" DIA. MH
621			INV:752.50 24" RCP (NW)[622]		24 " End Section
615	758.23	R-3286-8V		INV:754.31 15" RCP (E)[614]	2'x2' BOX
614	757.05	R-3472	INV:753.98 15" RCP (W)[615]	INV:753.78 18" RCP (E)[613]	2'x2' BOX
613	756.41	R-3472	INV:753.45 18" RCP (W)[614] INV:753.37 12" RCP (E)[631]	INV:753.05 24" RCP (S)[612]	48" DIA. MH
612	756.99	R-3010	INV:752.61 24" RCP (N)[613] INV:753.62 12" RCP (E)[641]	INV:752.51 24" RCP (S)[611]	48" DIA. MH
611			INV:752.00 24" RCP (N)[612]		24 " End Section
602	754.20	REF. DETAIL		INV:751.58 12" RCP (E)[601]	OUTLET CONTROL STRUCTURE. REF. DETAIL
601			INV:751.20 12" RCP (W)[602]		12 " End Section

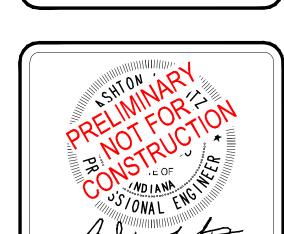
STORM SEWER PIPE DATA TABLE						
UPSTREAM STRUCTURE I.D.	DOWNSTREAM STRUCTURE I.D.	LENGTH OF PIPE	PIPE SIZE / TYPE	SLOPE %	UPSTREAM PIPE INV.	DOWNSTREAM PIPE INV.
641	612	123 LF	12" RCP	0.31%	754.00	753.62
631	613	77 LF	12" RCP	0.31%	753.60	753.37
625	624	103 LF	12" RCP	0.31%	755.00	754.68
624	623	108 LF	15" RCP	0.35%	754.43	754.05
623	622	189 LF	24" RCP	0.15%	752.85	752.57
622	621	45 LF	24" RCP	0.15%	752.57	752.50
615	614	133 LF	15" RCP	0.25%	754.31	753.98
614	613	163 LF	18" RCP	0.20%	753.78	753.45
613	612	177 LF	24" RCP	0.25%	753.05	752.61
612	611	202 LF	24" RCP	0.25%	752.51	752.00
602	601	122 LF	12" RCP	0.31%	751.58	751.20



FINISHED GRADE **EXISTING GRADE** GRANULAR BACKFILL STORM STRUCTURE ID 6XX



NOTE: ALL STORM INLET CASTINGS SHALL INCLUDE FISH LOGO AND "DUMP NO WASTE - DRAINS TO STREAM"

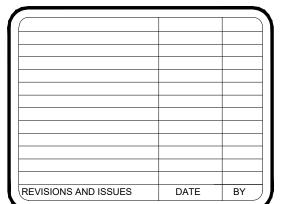


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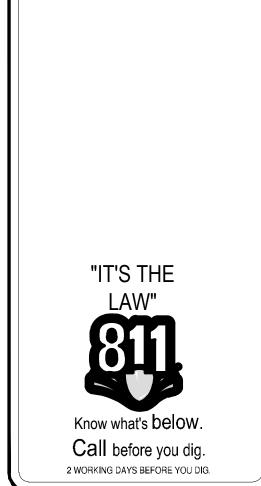
14020 Mississinewa Drive

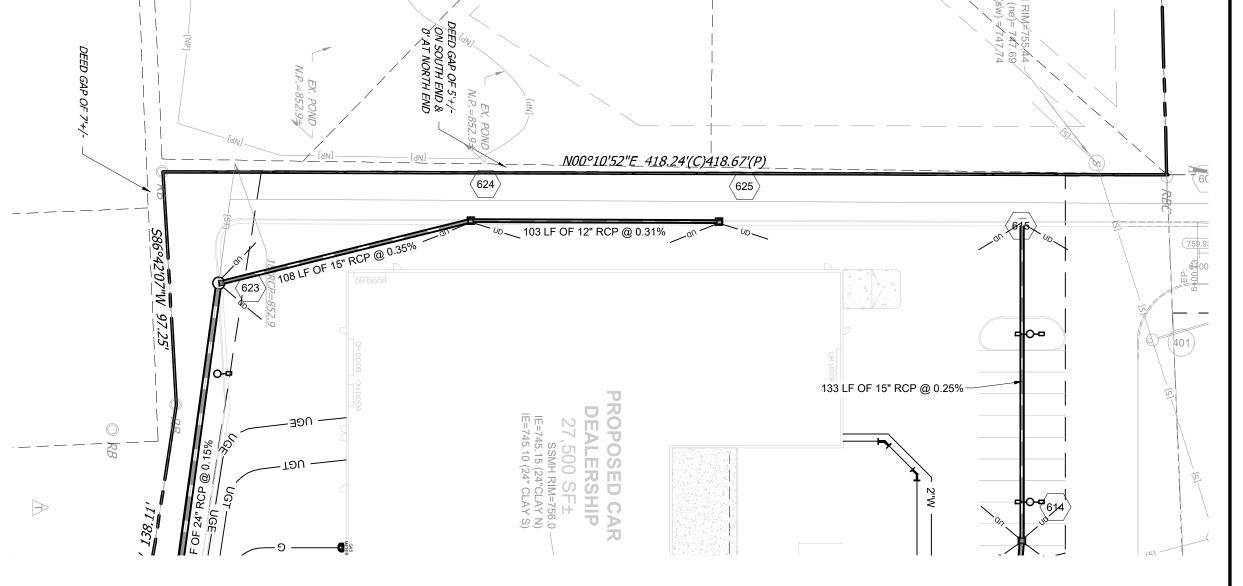
Carmel, Indiana 46033 P: 317.324.8695 F: 317.324.8717

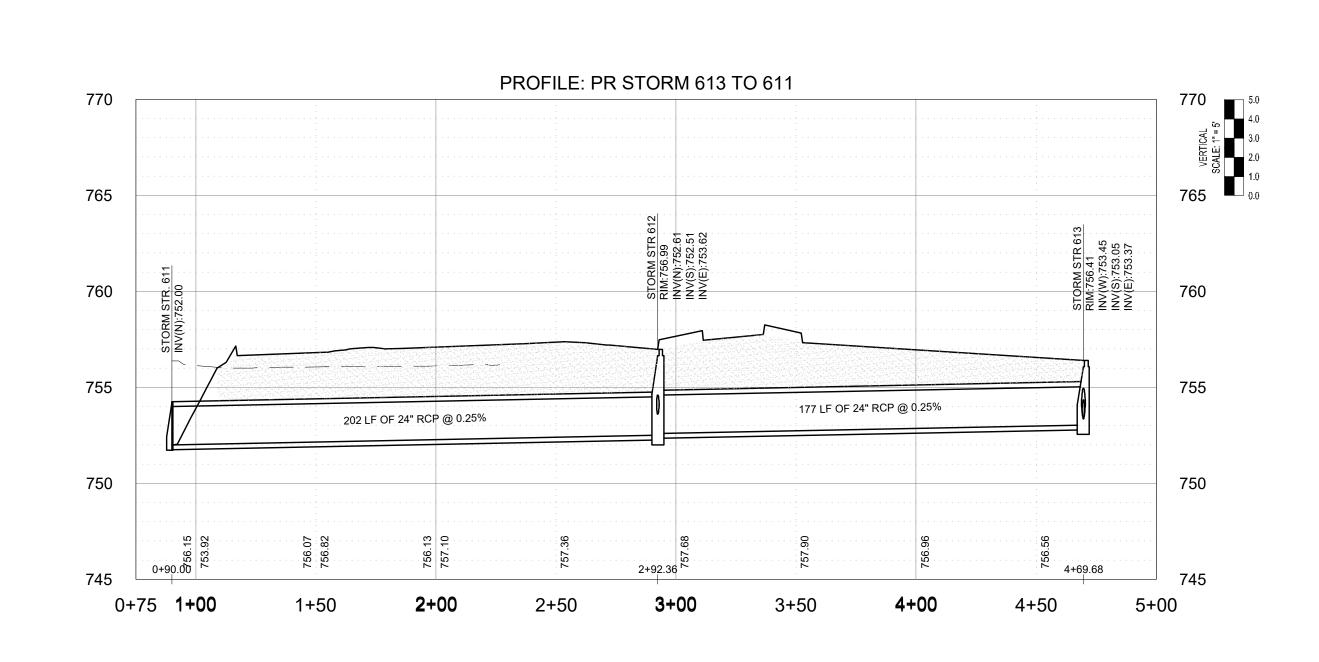
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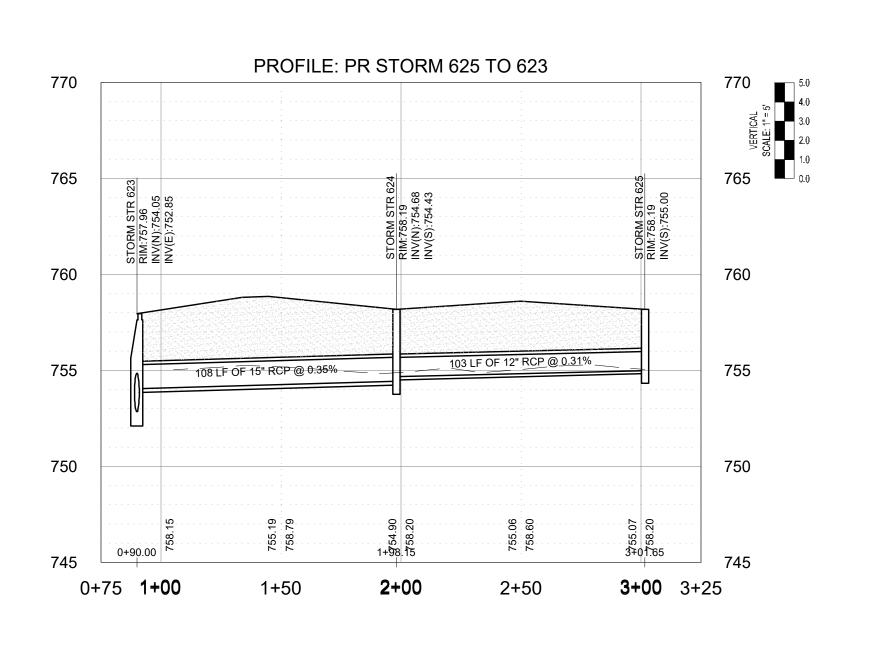
GENERAL NOTES / LEGEND:







177 LF OF 24" RCP @ 0.25%



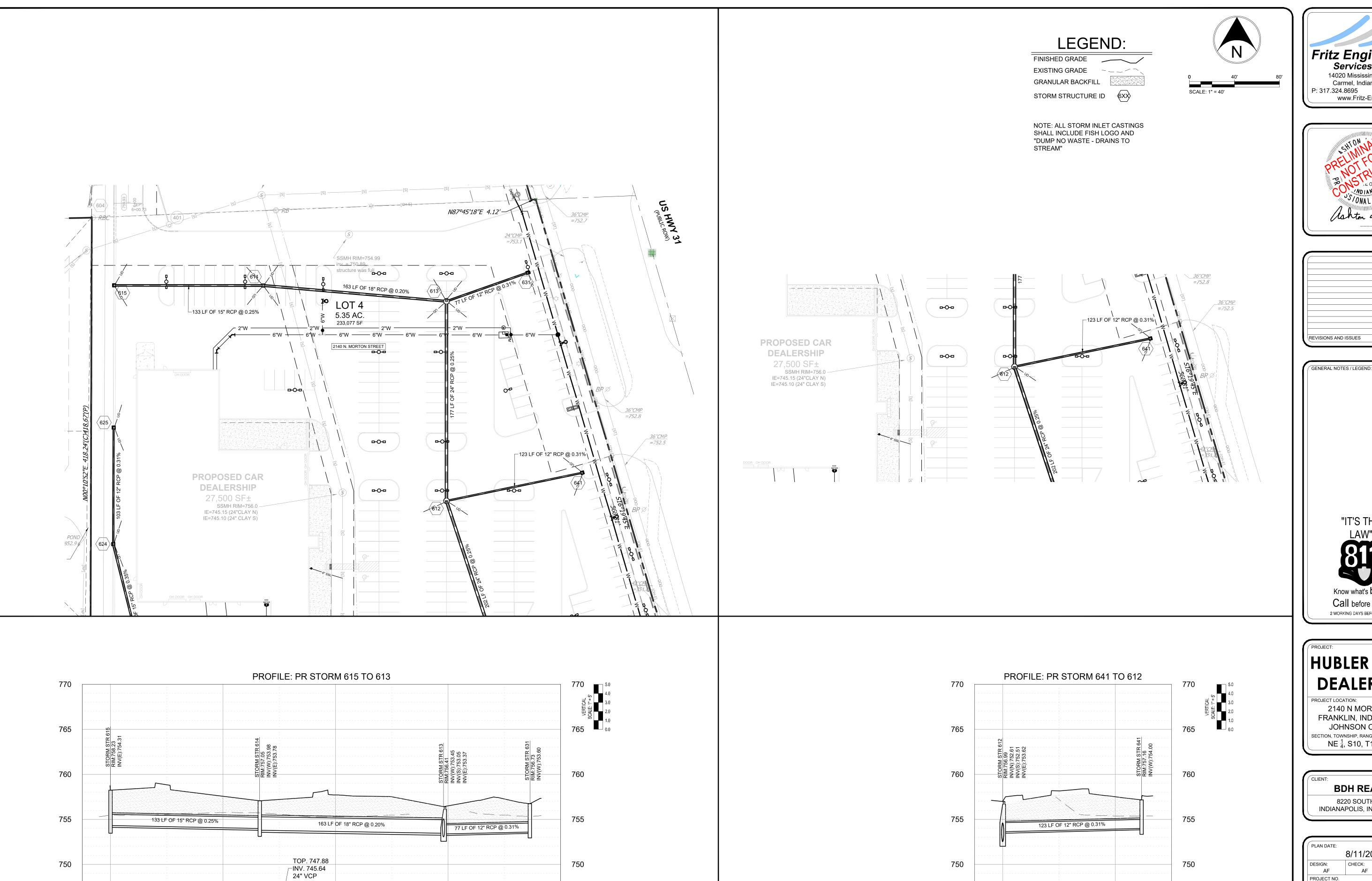
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> **BDH REALTY** 8220 SOUTH US 31 INDIANAPOLIS, INDIANA 46227

PLAN DATE: 8/11/2021 AF PROJECT NO. 2006003

SHEET NAME STORM DATA, PLAN & PROFILE



755.

3+00

745

0+75 **1+00**

1+50

2+00

2+50

755

3+50

3+95.97

4+00

755. 757.

4+50

4+82.64

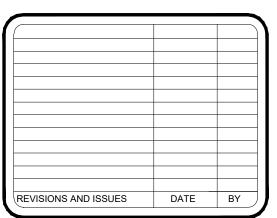
745

5+00

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BDH REALTY 8220 SOUTH US 31 INDIANAPOLIS, INDIANA 46227

8/11/2021 AF PROJECT NO. 2006003

STORM PLAN & **PROFILE** SHEET NO.

2+33.35

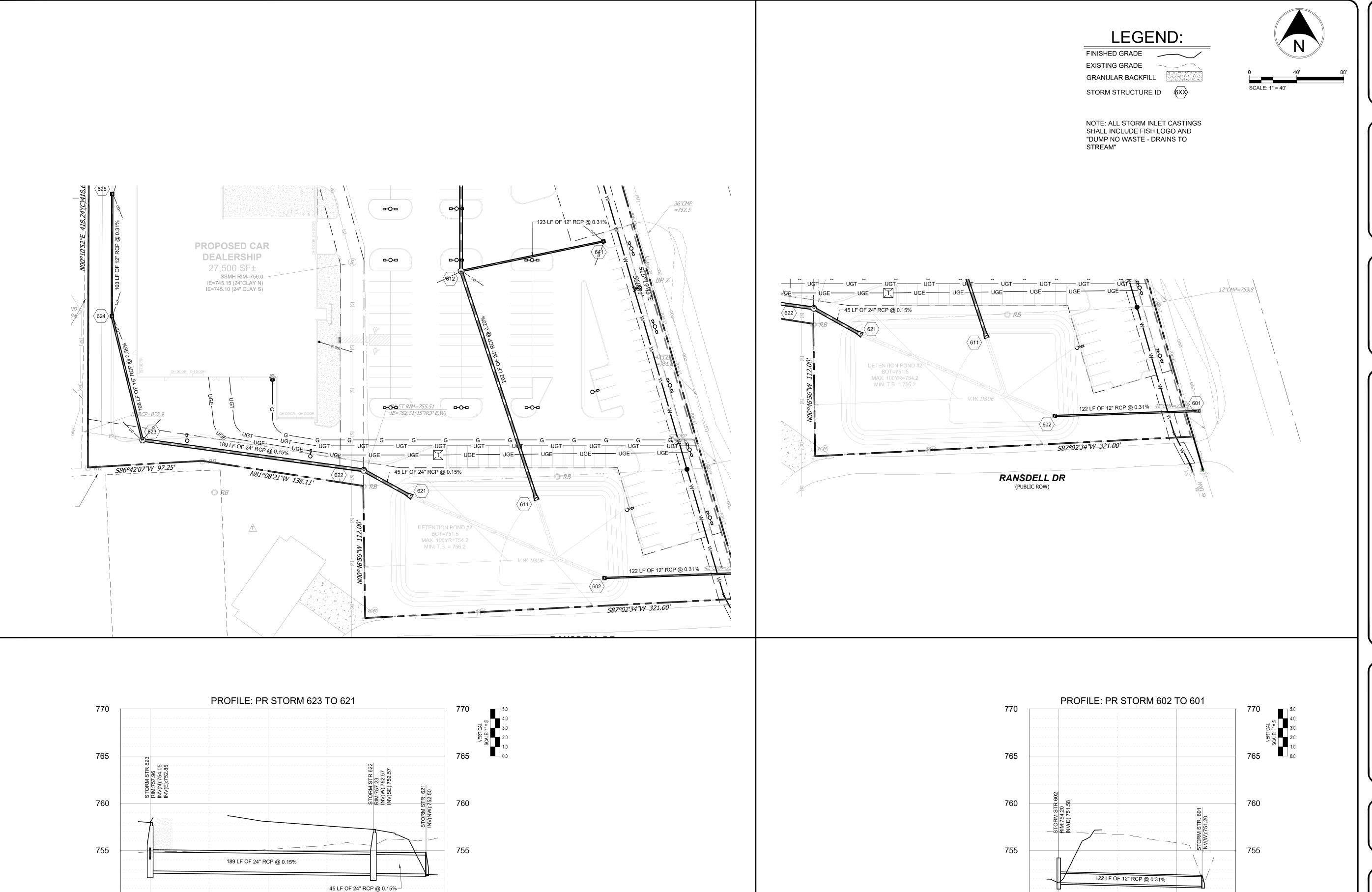
2+50

2+00

1+50

745

0+75 **1+00**



750

745

0+75 **1+00**

1+50

750

3+50

TOP. 747.02 INV. 744.79

24" VCP

3+00

20 20 1

2+50

2+00

1+50

750

745

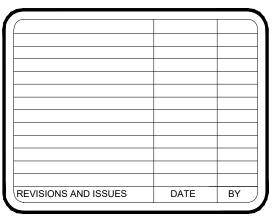
0+75 **1+00**

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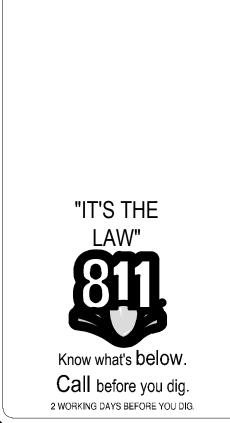
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GENERAL NOTES / LEGEND:



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SECTION, TOWNSHIP, RANGE:
NE \(\frac{1}{4} \), S10, T12N, R4E

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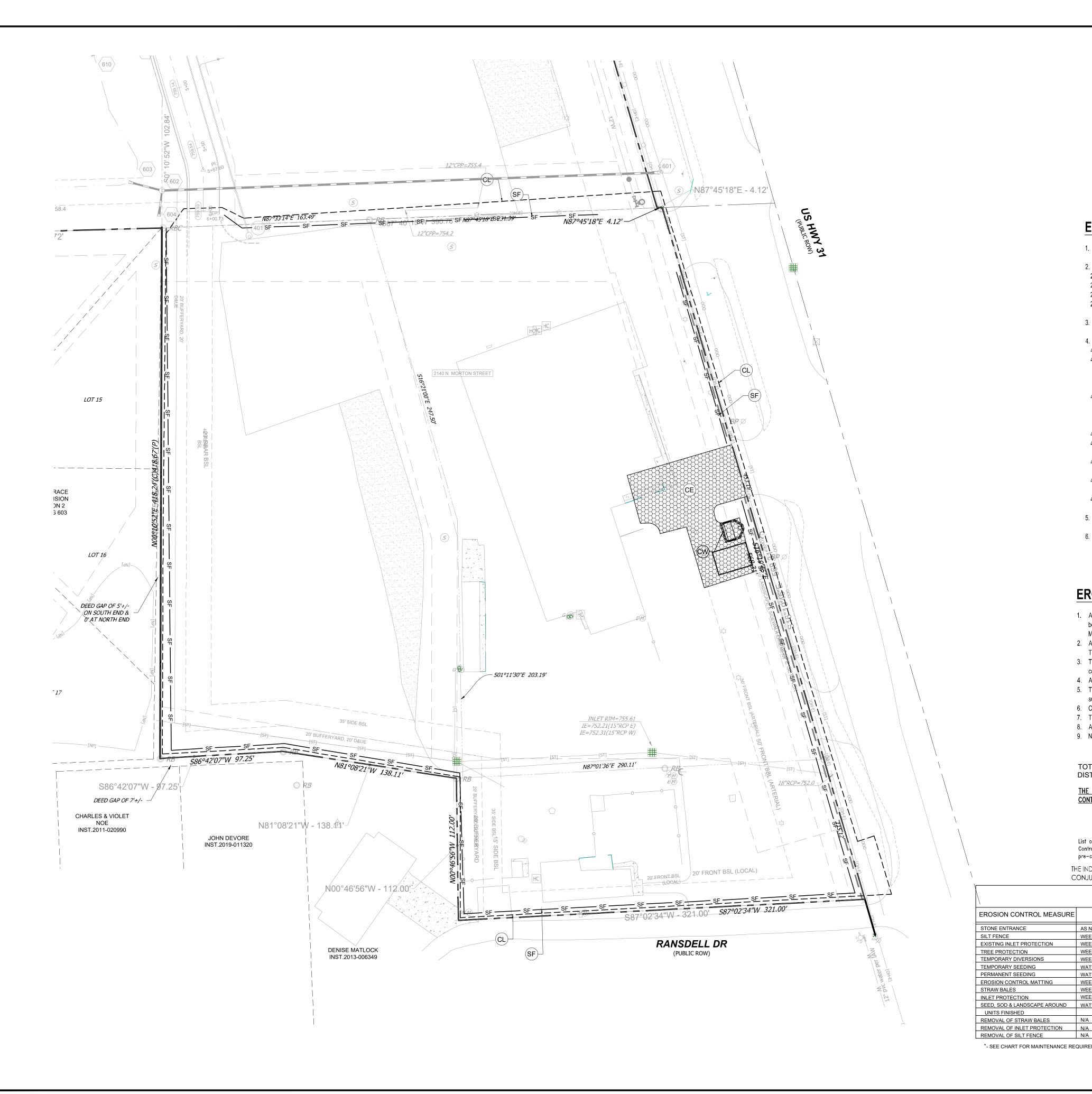
750

2+31.55

2+50

2+00

STORM PLAN & PROFILE



KEY NOTES: [∞]

- IP DROP INLET PROTECTION CE CONSTRUCTION ENTRANCE
- PS PERMANENT SEEDING
- TS TEMPORARY SEEDING EB EROSION CONTROL BLANKET
- WITH PERMANENT SEEDING SS SOIL STOCKPILE
- SF SILT FENCE CL CONSTRUCTION LIMITS
- CW CONCRETE WASHOUT
- SUB ASPHALT PAVEMENT SUBBASE

EROSION CONTROL SEQUENCE

- 1. Contractor shall schedule a Pre-Construction Meeting with the CITY OF FRANKLIN Stormwater Management Dept.) 317-873-4544
- 2. The following erosion control measures shall be in place prior to any land disturbing activities:
- 2.1. Create a stabilized construction entrance
- 2.2. Install Temporary Inlet Protection Measures on existing storm inlets.
- 2.3. Install Temporary Silt Fence and/or Silt Sock Protection as shown on approved plans
- 2.4. Install Temporary Concrete Washout
- 3. Contractor shall contact the CITY OF FRANKLIN for an initial Erosion Control Inspection to obtain full sign off on the Improvement Location Permit prior to earthwork activities.
- 4. Once land disturbing activities begin, the following practices shall be provided:
- 4.1. The Trained Individual shall make weekly site inspections and after every rainfall event of 0.5 inches and greater. 4.2. Positive drainage shall be maintained at all times. Contractor shall ensure the downstream drainage system and adjacent properties are not receiving sediment/debris laden runoff. If additional measures are necessary to protect adjacent properties or the downstream drainage system, the Contractor shall notify the Engineer and implement the
- necessary measures immediately. 4.3. Once earth disturbing activities begin, the adjacent roadways, adjacent drives and parking lots shall be continuously monitored for sediment tracking. If sediment is found, immediate action is required to clean the offsite areas and the current erosion control practices will need to be inspected and modified accordingly to prevent any further sediment from
- 4.4. Once the new storm structures/pipes are is in place, the appropriate type of inlet protection measures shall be placed.
- 4.5. Continued monitoring of all exposed areas shall be performed in order to verify the surrounding areas are not becoming sediment laden from construction activities onsite.
- 4.6. As the construction occurs, disturbed areas shall be stabilized as soon as they are at finished grade or will be left bare
- 4.7. Provide final grade stabilization upon final grading of all areas including erosion control blanketing, seeding and sodding
- 4.8. Storm sewers that become silted due to construction activities shall be cleaned with a jet vacuum and the material
- 5. Construction Phase BMP's shall remain in place and continue to be inspected until the entire site has reached the minimum vegetative cover, 70% established.
- 6. Upon the site reaching the required minimum established vegetative cover, the IDEM Rule 5 Notice of Termination shall be submitted to the MS4 Department for approval prior to submitting it to IDEM.

EROSION CONTROL NOTES:

- 1. All proposed erosion and sediment control shall be in conformance with CITY OF FRANKLIN Standards. Discrepancies between the plans and the Manual shall not alleviate the contractor from adhering to the requirements as set forth in the
- 2. All erosion control practices shall be in accordance with the "Indiana Storm Water Quality Manual" and the SCS "Field Office Technical Guide".
- 3. The CITY STORMWATER DEPARTMENT has the right to require additional erosion control measures in the field as conditions warrant.
- 4. Additional erosion and sediment control measures may be required by the inspector.
- 5. The storm water quality unit shown on these plans shall be the unit installed during the development of this property. No substitutions shall be permitted.
- 6. Copies of the letter of intent and response from CITY OF FRANKLIN office for Rule 5 compliance, when required.
- 7. There shall be no dirt, debris, or storage of materials in the street. 8. All erosion control materials shall be approved by CITY OF FRANKLIN prior to installation.
- 9. No soil will be removed or disposed of from the grading site.

TOTAL SITE AREA = 5.35 ACRES DISTURBED AREA = 5.0 ACRES

THE CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION AND MAINTENANCE OF EROSION CONTROL AND STORM WATER POLLUTION PREVENTION FOR THE PROJECT AREA:

Name: HUBLER AUTOMOTIVE GROUP c/o John Haines

Address: 8220 SOUTH US 31

Phone: 317-716-6636 Email: jhaines@drivehubler.com

List of Qualifications: Contractor is to inform CITY OF FRANKLIN of whom this stormwater pollution prevention individual is at the pre-construcion meeting, prior to any earth disturbing & construcion activities.

THE INDIANA STORM WATER QUALITY MANUAL & CITY OF FRANKLIN STANDARDS SHALL BE USED IN CONJUNCTION WITH THIS SET OF EROSION CONTROL PLANS.

EROSION CONTROL SCHEDULE				
//EASURE	*MAINTENANCE	INSTALLATION SEQUENCE		
	AS NEEDED	PRIOR TO CLEARING AND GRADING		
	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING		
ON	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING		
	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING		
	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	ALONG WITH ROUGH GRADING		
	WATER AS NEEDED	AFTER ROUGH GRADING		
	WATER AS NEEDED	AFTER FINISH GRADING		
NG	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	AFTER FINISH GRADING		
	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	AFTER FINISH GRADING		
	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	AFTER EACH INLET IS PLACED		
AROUND	WATER AS NEEDED	AFTER FINISHED GRADING AROUND FINISHED UNITS		
	_			

AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED

AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED





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DEVICIONE AND ICCUE	DATE	DV
REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

"IT'S THE

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2140 N MORTON ST. FRANKLIN, INDIANA 46131 JOHNSON COUNTY SECTION, TOWNSHIP, RANGE:

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BDH REALTY

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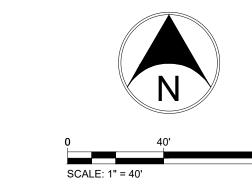
PLAN DATE: 8/11/2021 DESIGN: AF PROJECT NO.

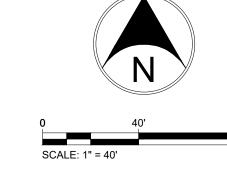
2006003 SHEET NAME **EROSION CONTROL & SWPPP**

C501

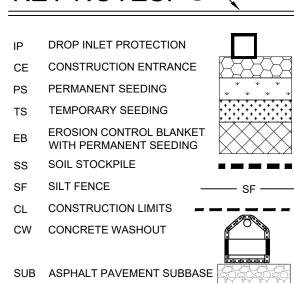
SHEET NO.

REMOVAL OF SILT FENCE *- SEE CHART FOR MAINTENANCE REQUIREMENTS



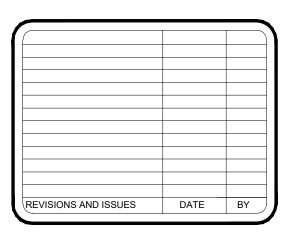


KEY NOTES: [∞]

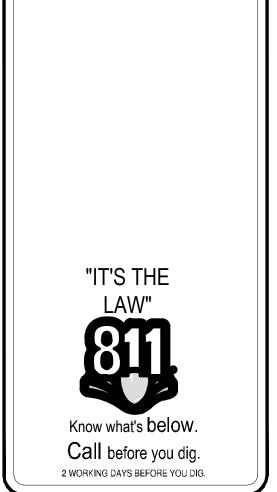








GENERAL NOTES / LEGEND:



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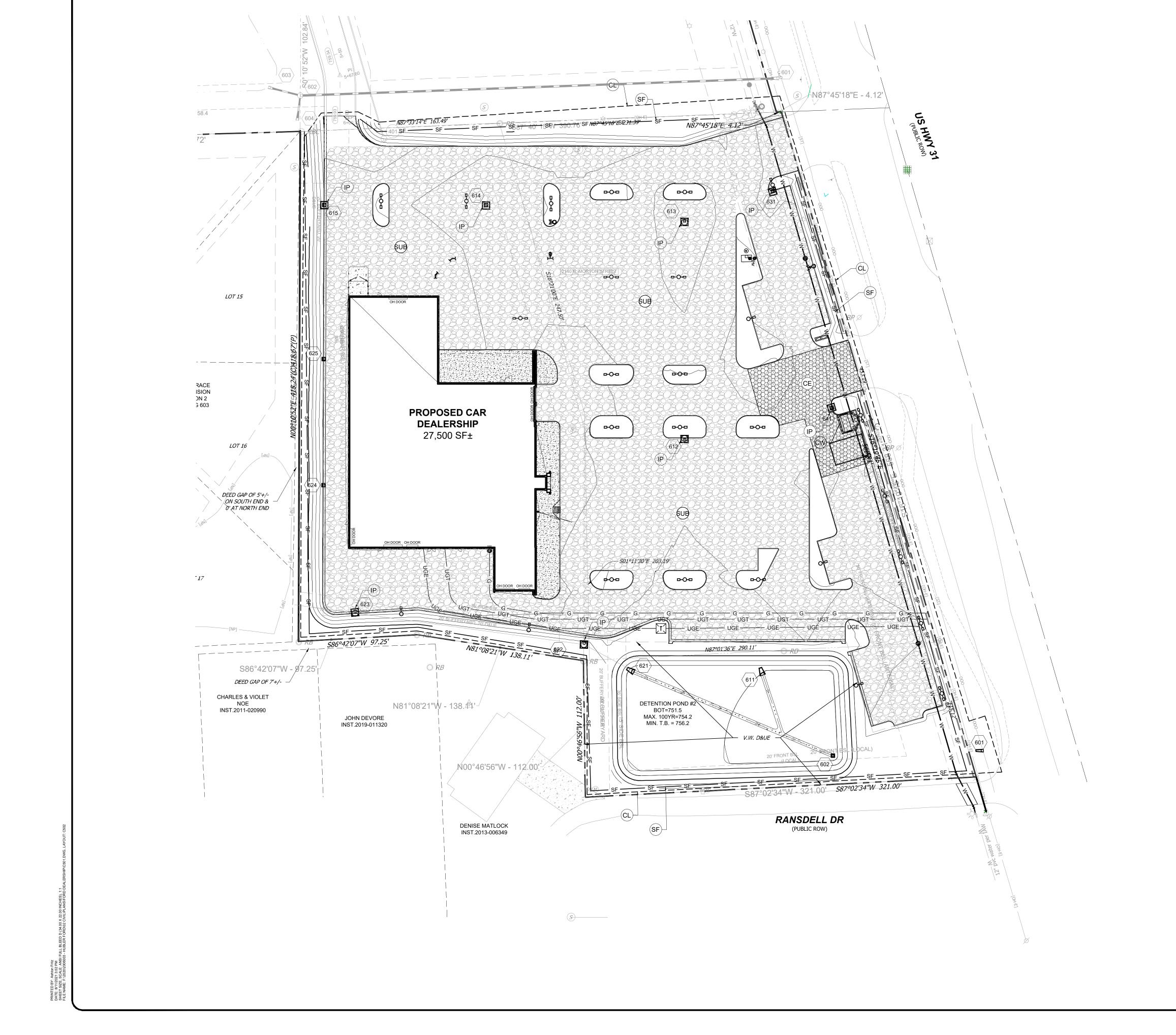
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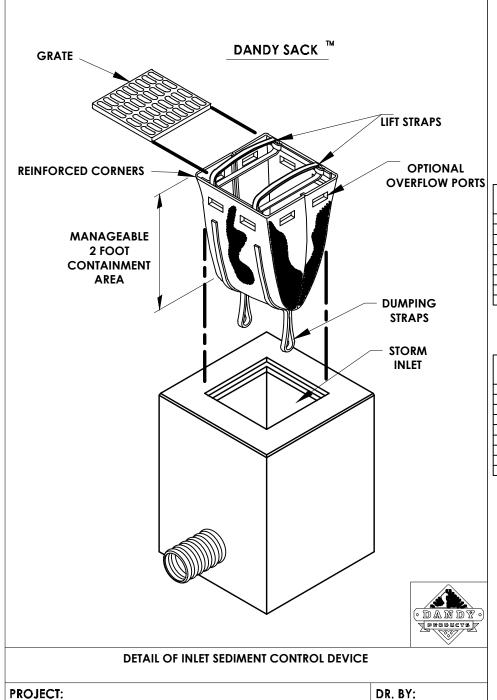
8220 SOUTH US 31 INDIANAPOLIS, INDIANA 46227

PLAN DATE:	8/11/2021	
DESIGN:	CHECK:	DRAWN:
AF	AF	KG
PROJECT NO.		
	2006003	

EROSION CONTROL

DETAILS C502





DATE:

1. Install silt fence parallel to the contour of the land.

3. Excavate trench 8 inches deep and 4 inches wide. . Install with stakes on the down slope side of fence.

. Backfill trench on both sides of fence and compact

7. Join silt fence sections by wrapping two posts and driving

Construction Entrance

minimum depth.

them in together. Do not use any other method of joining.

1. Install construction entrance from street

to face of proposed building or at a 50'

minimum length. Use #2 stone at a 6"

2. A geo-textile is required underneath the

entrance to extend its functionality.

Flare out entrance where it meets the

travel over disturbed ground. 4. Perimeter Controls (silt fence) should be

1. Install inlet protection on all curbside and rear of lot storm

2. Curbside inlet protection should be installed so that 3-4inches of the top of the casting is exposed to allow for

Wrapping geo-textile underneath the grate for protection

or straw bale barriers are PROHIBITED practices.

storm grate and installed per the manufacturer's

5. Inspect weekly and within 24 hrs of a ½" of rain.

Make sure inlet protection is securely fastened to the

Sediment accumulation or standing water around the inlet can indicate the need for maintenance. Clean

protection when clogged with sediment or when it

reaches ½ of the storage capacity or height of the control. Replace protection if torn or worn. Clean

sediment from street around the storm inlet and place

repairs before the next anticipated rain and by no later

back onto lot behind perimeter controls. Complete

than one week from the day they are noted.

inlets within the flow line of the active lot.

overflow, preventing excessive ponding.

street so that vehicle turn radiuses do not

turned into the lot for a few feet where

they meet the construction entrance.

5. Inspect weekly and within 24 hrs of a ½"

areas behind the fence.

8. Inspect weekly and within 24 hrs of a 1/2" of rain. Silt fence should be cleaned out when the sediment has reached 1/3 the height of the exposed fencing. Repair silt fence where torn or damaged. Complete

repairs before the next anticipated rain and by no later than one week from the date they are noticed.

of rain. Freshen or replace stone as needed to prevent off site tracking. If offsite tracking is occurring, clean up immediately, and correct the reason why the drive is failing as soon as possible. Complete repairs before the next anticipated rain and by no later than one week from the date they are noted.

recommendations.

inches toward the upslope side.

2. Extend ends of silt fence upslope 3-4 feet to allow for ponding

5. Bury 12 inches of fabric in the trench, extending the bottom 4

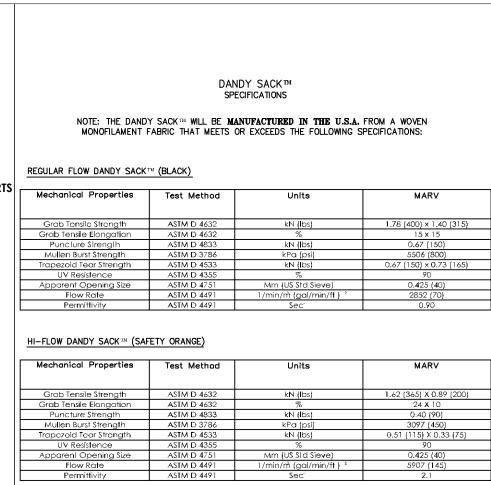
DR. NO:

CITY/STATE:

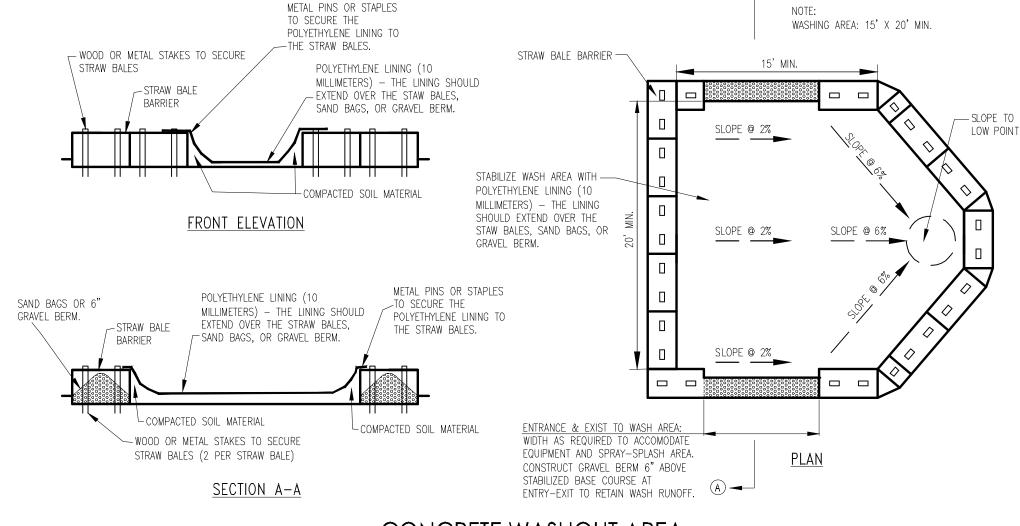
2"-3" Course Aggregate

Geo-textile Underlayment

BMP DETAILS



*Note: All Dandy Sacks™ can be ordered with our optional oil absorbent pillows



CONCRETE WASHOUT AREA

NOT TO SCALE

SEASONAL SOIL PROTECTION CHART: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC -WOVEN OR NON-WOVEN PREMANENT -NO JOINTS ALONG LENGTH -STAPLE OR WIRE TO POSTS -(AND WIRE FENCE IF USED) 6" X 6" TRENCH TO BE BACKFILLED TEMPORAR AND COMPACTED SODDING A = KENTUCKY BLUEGRASS 40 LBS/ACRE; CREEPING RED FESCUE 40 LBS/ACRE; PLUS 2 TONS STRAW MULCH/ACRE, OR ADD ANNUAL RYEGRASS 20 LBS/ACRE.

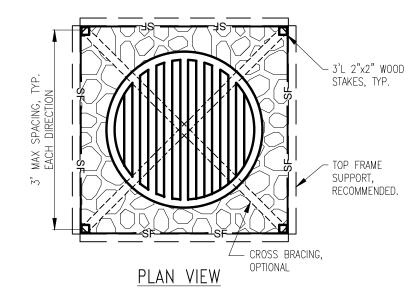
- B = KENTUCKY BLUEGRASS 60 LBS/ACRE; CREEPING RED FESCUE 60 LBS/ACRE; PLUS 2 TONS STRAW MULCH/ÁCRE, OR ADD ANNUAL RYEGRASS 30 LBS/ACRE.
- C = SPRING OATS 3 BUSHEL/ACRE
- D = WHEAT OR RYE 2 BUSHEL/ACRE
- E = ANNUAL RYEGRASS 40 LBS/ACRE

SEEDING

SEEDING

- G = STRAW MULCH 2 TONS/ACRE
- */I/* IRRIGATION NEEDED DURING JUNE, JULY, AND/OR SEPTEMBER
- ** IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD

SEASONAL SOIL PROTECTION CHART



INSTALLATION:

1. CUT FENCE FABRIC FROM A SINGLE ROLL TO ELIMINATE JOINTS.

- USE A MINIMUM OVERLAP 2' IF A JOINT IS NEEDED. BURY 12" OF FENCE FABRIC PER THE SILT FENCE SECTION DETAIL.
- SPACE SUPPORT EVENLY, WITH A MAXIMUM SPACING OF 3'.
- 4. SUPPORTS SHALL ABUT THE INLET PERIMETER WHEREEVER POSSIBLE. PROVIDE A 4" BED OF NO. 2 STONE WHERE OVERFLOW FALLS ONTO UNPROTECTED SOIL.
- 5. PREFABRICATED WELDED WIRE UNITS ARE ACCEPTABLE.

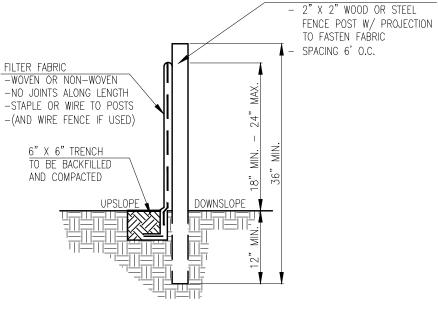
MAINTENANCE:

1. INSPECT FENCE WEEKLY AND AFTER EACH STORM EVENT.

2. IF FENCE IS DAMAGED, REPAIR OR REPLACE IT IMMEDIATELY.

- REMOVE DEPOSITED SEDIMENT WHEN IT REACHES ONE THIRD OF THE HEIGHT OF THE FENCE.
- TAKE CARE NOT TO UNDERMINE THE FENCE DURING SEDIMENT REMOVAL.
 AFTER THE CONTRIBUTING AREA HAS BEEN STABILIZED, REMOVED THE FENCE AND REMAINING SEDIMENT,
 BRING THE DISTURBED AREA TO GRADE, AND STABILIZE.
- 6. REPLACE THE FENCE WITH ANOTHER PRACTICE STRAW BALES (PRACTICE 3.54), GRAVEL RING (PRACTICE 3.56), OR GRAVEL BAGS (PRACTICE 3.66) - IF IT CONTINUALLY SUSTAINS SIGNIFICANT DAMAGE.

SILT FENCE INLET PROTECTION



1. THE BOTTOM 1' OF THE FENCE SHALL BE BURIED IN THE TRENCH ON THE UPSLOPE SIDE. 2. FENCE SHALL BE INSTALLED ALONG LEVEL GRADES, NOT ACROSS FLOW CHANNELS. 3. IF OPTIONAL SUPPORT WIRE FENCE IS USED, POST SPACING MAY BE EXTENDED TO 8' O.C.

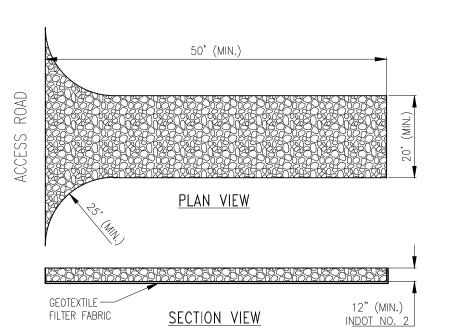
MAINTENANCE:

- . INSPECT SILT FENCE PERIODICALLY (WEEKLY) AND AFTER EACH STORM EVENT. 2. IF FABRIC IS TORN OR DAMAGED OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE
- AFFECTED PORTION IMMEDIATELY. 3. REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE FENCE, OR IT
- IS CAUSING THE FABRIC TO BULGE. 4. TAKE CARE NOT TO UNDERMINE THE FENCE DURING SEDIMENT REMOVAL. 5. AFTER THE CONTRIBUTING AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND REMAINING

SEDIMENT, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE.

SILT FENCE SECTION

NOT TO SCALE - PRACTICE 3.74



- MAINTENANCE:

 1. INSPECT WEEKLY, AND AFTER EACH STORM EVENT OR HEAVY USE.

 2. RESHAPE AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
- 3. TOPDRESS WITH CLEAN STONE AS REQUIRED. MAINTAIN MINIMUM DEPTH THROUGHOUT
- 4. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY SWEEPING OR BRUSHING. (DO NOT FLUSH AREA WITH WATER.)
- 5. REPAIR ANY BROKEN PAVEMENT IMMEDIATELY.

STABLIZED CONSTRUCTION ENTRANCE

NOT TO SCALE - PRACTICE 3.0

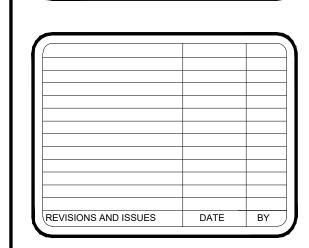
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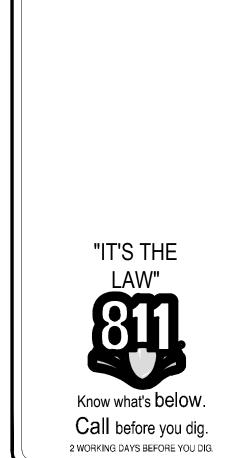
Services, LLC

14020 Mississinewa Drive

Carmel, Indiana 46033 P: 317.324.8695 F: 317.324.8717



GENERAL NOTES / LEGEND



HUBLER FORD DEALERSHIP

PROJECT LOCATION: 2140 N MORTON ST. FRANKLIN, INDIANA 46131 JOHNSON COUNTY SECTION, TOWNSHIP, RANGE:

 NE_{4}^{1} , S10, T12N, R4E

BDH REALTY 8220 SOUTH US 31 INDIANAPOLIS, INDIANA 46227

PLAN DATE: 8/11/2021 DESIGN: AF PROJECT NO.

SHEET NAME **EROSION CONTROL DETAILS**

SHEET NO.

2006003

B14 MONITORING AND MAINTENANCE GUIDELINES FOR POLLUTION PREVENTION MEASURES:

4. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.

INSPECT THE SILT FENCE PERIODICALLY AND AFTER EACH STORM EVENT.

2. IF FENCE FABRIC TEARS, STARTS TO DECOMPOSE OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION

3. REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE FENCE AT IT'S LOWEST POINT OR IS CAUSING THE

5. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, BRING THE

SILT FENCE MAINTENANCE REQUIREMENTS

DISTURBED AREA TO GRADE AND STABILIZE IT.

IMMEDIATELY.

FABRIC TO BULGE.

VEHICLE AND EQUIPMENT FUELING VEHICLE EQUIPMENT FUELING PROCEDURES AND PRACTICES ARE DESIGNED TO PREVENT FUEL SPILLS AND LEAKS, AND REDUCE OR ELIMINATE CONTAMINATION OF STORMWATER. THIS CAN BE ACCOMPLISHED BY USING OFFSITE FACILITIES, FUELING IN DESIGNATED AREAS ONLY.

QUALITY MEASURES DAYS BEFORE WORK IS TO COMMENCE. ADEQUATE VEGETATIVE COVER. ADDITIONAL STORMWATER POLLUTION PREVENTION MEASURES VEHICLE AND EQUIPMENT MAINTENANCE DESCRIPTION AND PURPOSI PREVENT OR REDUCE THE CONTAMINATION OF STORMWATER RESULTING FROM VEHICLE AND EQUIPMENT MAINTENANCE BY RUNNING A "DRY AND CLEAN SITE". THE BEST OPTION WOULD BE TO PERFORM MAINTENANCE ACTIVITIES AT AN OFFSITE FACILITY. IF THIS OPTION IS NOT AVAILABLE THEN WORK SHOULD BE PERFORMED IN DESIGNATED AREAS ONLY, WHILE PROVIDING COVER FOR MATERIALS STORED OUTSIDE, CHECKING FOR LEAKS AND SPILLS, AND CONTAINING AND CLEANING UP SPILLS IMMEDIATELY. SUITABLE APPLICATIONS THESE PROCEDURES ARE SUITABLE ON ALL CONSTRUCTION PROJECTS WHERE ON ONSITE YARD AREA IS NECESSARY FOR STORAGE AND MAINTENANCE OF HEAVY EQUIPMENT AND VEHICLES. ONSITE VEHICLE AND EQUIPMENT MAINTENANCE SHOULD ONLY BE USED WHERE IT IS IMPRACTICAL TO SEND VEHICLES AND EQUIPMENT OFFSITE FOR MAINTENANCE AND REPAIR. SENDING VEHICLES/EQUIPMENT OFFSITE SHOULD BE DONE IN CONJUNCTION WITH A STABILIZED CONSTRUCTION ENTRANCE/EXIT. OUTDOOR VEHICLE OR EQUIPMENT MAINTENANCE IS A POTENTIALLY SIGNIFICANT SOURCE OF STORMWATER POLLUTION. ACTIVITIES THAT CAN CONTAMINATE STORMWATER INCLUDE ENGINE REPAIR AND SERVICE, CHANGING OR REPLACEMENT OF FLUIDS, AND OUTDOOR FOUIPMENT STORAGE AND PARKING (ENGINE FLUID LEAKS) IF MAINTENANCE MUST OCCUR ONSITE. USE DESIGNATED AREAS. LOCATED AWAY FROM DRAINAGE COURSES. DEDICATED MAINTENANCE AREAS SHOULD BE PROTECTED FROM STORMWATER RUNON AND RUNOFF, AND SHOULD BE LOCATED AT LEAST 50 FT FROM DOWNSTREAM DRAINAGE FACILITIES AND WATERCOURSES DRIP PANS OR ABSORBENT PADS SHOULD BE USED DURING VEHICLE AND EQUIPMENT MAINTENANCE WORK THAT INVOLVES FLUIDS, UNLESS THE MAINTENANCE WORK IS PERFORMED OVER ON IMPERMEABLE SURFACE IN A DEDICATED MAINTENANCE AREA. PLACE A STOCKPILE OF SPILL CLEANUP MATERIALS WHERE IT WILL BE READILY ACCESSIBLE ALL FUELING TRUCKS AND FUELING AREAS ARE REQUIRED TO HAVE SPILL KITS AND/OR USE OTHER SPILL PROTECTION DEVICES. USE ABSORBENT MATERIALS ON SMALL SPILLS. REMOVE THE ABSORBENT MATERIALS PROMPTLY AND DISPOSE OF PROPERLY. INSPECT ONSITE VEHICLES AND EQUIPMENT DAILY AT STARTUP FOR LEAKS, AND REPAIR IMMEDIATELY. KEEP VEHICLES AND EQUIPMENT CLEAN; DO NOT ALLOW EXCESSIVE BUILD-UP OF OIL AND GREASE. SEGREGATE AND RECYCLE WASTES, SUCH AS GREASES, USED OIL OR OIL FILTERS, ANTIFREEZE, CLEANING SOLUTIONS, AUTOMOTIVE BATTERIES, HYDRAULIC AND TRANSMISSION FLUIDS. PROVIDE SECONDARY CONTAINMENT AND COVERS FOR THESE MATERIALS IF STORED ONSITE. TRAIN EMPLOYEES AND SUBCONTRACTORS IN PROPER MAINTENANCE AND SPILL CLEANUP PROCEDURES. DRIP PANS OR PLASTIC SHEETING SHOULD BE PLACED UNDER ALL VEHICLES AND EQUIPMENT PLACED ON DOCKS. BARGES, OR OTHER STRUCTURES OVER WATER BODIES WHEN THE VEHICLE OR EQUIPMENT IS PLANNED TO BE IDLE FOR MORE THAN 1 HOUR PROPERLY DISPOSE OF USED OILS, FLUIDS, LUBRICANTS, AND SPILL CLEANUP MATERIALS. DO NOT PLACE USED OIL IN A DUMPSTER OR POUR INTO A STORM DRAIN OR WATERCOURSE. PROPERLY DISPOSE OF OR RECYCLE USED BATTERIES. DO NOT BURY USED TIRES REPAIR LEAKS OF FLUIDS AND OIL IMMEDIATELY. LISTED BELOW IS FURTHER INFORMATION IF YOU MUST PERFORM VEHICLE OR EQUIPMENT MAINTENANCE ONSITE. INSPECT AND VERIFY THAT BMP'S ARE IN PLACE PRIOR TO THE COMMENCEMENT OF ASSOCIATED ACTIVITIES. WHILE ACTIVITIES ASSOCIATED WITH THE BMP ARE UNDER WAY, INSPECT WEEKLY TO VERIFY CONTINUED BMP IMPLEMENTATION. KEEP AMPLE SUPPLIES OF SPILL CLEANUP MATERIALS ONSITE. MAINTAIN WASTE FLUID CONTAINERS IN LEAK PROOF CONDITION. VEHICLES AND EQUIPMENT SHOULD BE INSPECTED ON EACH DAY OF USE. LEAKS SHOULD BE REPAIRED IMMEDIATELY OR THE PROBLEM VEHICLE(S) OR EQUIPMENT SHOULD BE REMOVED FROM THE PROJECT SITE. INSPECT EQUIPMENT FOR DAMAGED HOSES AND LEAKY GASKETS ROUTINELY. REPAIR OR REPLACE AS NEEDED.

FUELING PROCEDURES.

TEMPORARY GRAVEL CONSTRUCTION MAINTENANCE REQUIREMENTS 1. INSPECT ENTRANCE PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER STORM EVENTS OR HEAVY USE. 2. RESHAPE AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL. 3. TOPDRESS WITH CLEAN STONE AS NEEDED. 4. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO STREETS BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED IF THE WATER IS CONVEYED INTO A SEDIMENT TRAP OR BASIN. 5. REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY. TEMPORARY BEEHIVE INLET SEDIMENT TRAP MAINTENANCE REQUIREMENTS I. INSPECT TEMPORARY SEDIMENT TRAPS AFTER EACH STORM EVENT AND IMMEDIATELY REPAIR ANY EROSION AND PIPING HOLES. 2. REMOVE SEDIMENT WHEN IT HAS ACCUMULATED TO WITHIN 6" OF CASTING 3. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, REMOVE THE STRUCTURE AND SEDIMENT, SMOOTH THE SITE TO BLEND WITH ADJOINING AREAS AND STABILIZE IT. CURB INLET PROTECTION MAINTENANCE REQUIREMENTS AFTER EACH STORM EVENT REMOVE THE SEDIMENT AND REPLACE THE GRAVEL, REPLACE THE GEOTEXTILE FABRIC IF USED. 2. PERIODICALLY REMOVE SEDIMENT AND TRACKED-ON SOIL FROM THE STREET, WITHOUT FLUSHING, TO REDUCE THE THE SEDIMENT 3. INSPECT CASTING COVER PERIODICALLY FOR DAMAGE AND REPAIR. KEEP GRATES FREE OF DEBRIS 4. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE SEDIMENT DEPOSITS AND DISPOSE OF THEM EROSION CONTROL BLANKET MAINTENANCE REQUIREMENTS 1. DURING VEGETATIVE ESTABLISHMENT, INSPECT AFTER EACH STORM EVENT FOR ANY EROSION BELOW THE BLANKET 2. IF ANY AREA(S) SHOW EROSION, PULL BACK THAT PORTION OF THE BLANKET COVERING IT, RE-SEED THE AREA AND RELAY AND STAPLE 3. AFTER VEGETATIVE ESTABLISHMENT CHECK THE TREATED AREA PERIODICALLY. B15 EROSION & SEDIMENT CONTROL SPECIFICATIONS FOR INDIVIDUAL BUILDING LOTS -THERE ARE NO INDIVIDUAL BUILDING LOTS ASSOCIATED SECTION C - STORMWATER POLLUTION PREVENTION PLAN - POST-CONSTRUCTION PHASE DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE: SILT AND SEDIMENT FROM EXPOSED SOILS, LEAVES, MULCH, VEHICULAR SOURCES SUCH AS LEAKING FUEL OR OIL, BRAKE FLUID, BRAKE DUST, GREASE, ANTIFREEZE, METALS, RUBBER FRAGMENTS, ROAD GRIT, SALTS AND SANDS, CONSTRUCTION TRASH AND DEBRIS, FERTILIZERS, CLEANING AGENTS, CHEMICALS, PAINT, ANIMAL WASTE, ELEVATED STORM RUNOFF TEMPERATURES, PESTICIDES AND PATHOGENS. C2 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION: 1. INSPECT AND MAINTAIN ALL EROSION CONTROL MEASURES AS DETAILED IN THE STORMWATER POLLUTION PREVENTION MEASURES MAINTENANCE REQUIREMENTS BEGINNING IMMEDIATELY AFTER INSTALLATION AND CONTINUING UNTIL VEGETATION HAS BEEN SUFFICIENTLY ESTABLISHED AND ALL CONSTRUCTION ACTIVITY IS COMPLETE. 2. REMOVE ALL SILT FENCES, ETC. ONLY AFTER SEEDING AND SUFFICIENT VEGETATIVE GROWTH HAS BEEN ESTABLISHED IN EACH AREA TO A POINT WHERE SEDIMENT/POLLUTANTS WILL NOT ENTER THE CREEK. 3. INSPECTION AND MAINTENANCE OF ALL AREAS IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ACCEPTED BY THE GOVERNING MS4 OFFICE. INSPECTION AND MAINTENANCE OF BMP'S SHALL FOLLOW TIME TABLES SET FORTH IN THE MAINTENANCE AND OPERATIONS C3 DESCRIPTION OF PROPOSED POST CONSTRUCTION STORMWATER QUALITY MEASURES -1. PERMANENT SEEDING AND LANDSCAPE PLANT MATERIAL 2. ON GOING MAINTENANCE BY THE OWNER TO INSURE THAT SEDIMENT, TRASH AND POLLUTANTS DO NOT LEAVE THE SITE. 3. SEE BMP OPERATIONS AND MAINTENANCE MANUAL (O&M MANUAL) FOR DETAILS RELATED TO POST CONSTRUCTION STORMWATER C4 LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE - SEE STORMWATER POLLUTION PREVENTION PLAN SHEETS C501-C503 FOR LOCATIONS AND SHEET C504 FOR DETAILS AND SPECIFICATIONS. C5 DESCRIPTION OF MAINTENANCE GUIDELINES FOR POST CONSTRUCTION STORMWATER QUALITY MEASURE -EQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION: 1. INSPECT AND MAINTAIN ALL EROSION CONTROL MEASURES AS DETAILED IN THE STORMWATER POLLUTION PREVENTION MEASURES MAINTENANCE REQUIREMENTS BEGINNING IMMEDIATELY AFTER INSTALLATION AND CONTINUING UNTIL VEGETATION HAS BEEN SUFFICIENTLY ESTABLISHED AND ALL CONSTRUCTION ACTIVITY IS COMPLETE. REMOVE ALL SILT FENCES, ETC. ONLY AFTER SEEDING AND SUFFICIENT VEGETATIVE GROWTH HAS BEEN ESTABLISHED IN EACH AREA TO A POINT WHERE SEDIMENT/POLLUTANTS WILL NOT ENTER STORM INLETS, DETENTION FACILITY, OR ONSITE SWALES. 2. INSPECTION AND MAINTENANCE OF ALL AREAS IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ACCEPTED BY THE GOVERNING MS4 OFFICE. INSPECTION AND MAINTENANCE OF BMP'S SHALL FOLLOW TIME TABLES SET FORTH IN THE MAINTENANCE AND OPERATIONS MANUAL. THE PURPOSE OF STAGING CONSTRUCTION DURING THE VARIOUS PHASES OF THE PROJECT IS TO LIMIT THE AMOUNT OF GROUND DISTURBED AT ANY GIVEN TIME AND TO PREVENT SEDIMENT FROM LEAVING THE SITE. FOR THIS REASON THE FOLLOWING SEQUENCING SHOULD BE FOLLOWED CALL INDIANA UNDERGROUND PLANT PROTECTION SERVICE ("HOLEY MOLEY") AT 800-382-5544 TO CHECK THE LOCATION OF ANY UTILITIES TWO ESTABLISH ON-SITE LOCATION FOR OWNER/OPERATOR/CONTRACTOR PLACEMENT OF APPROVED PLANS AND RULE 5 NOI INSPECTION CITY OF FRANKLIN STORMWATER DEPARTMENT MUST BE NOTIFIED AT LEAST 48 HOURS BEFORE CONSTRUCTION IS SCHEDULED TO BEGIN. THE CONTRACTOR SHALL CONTACT THE DEPARTMENT TO SET UP A PRE-CONSTRUCTION MEETING PRIOR TO STARTING CONSTRUCTION. 1. INSTALL A TEMPORARY STONE ACCESS DRIVE OFF ROAD (SEE EROSION CONTROL PLAN, SHEET C501) 2. CONSTRUCT RULE 5 INFORMATION POSTING SITE, INSTALL TRASH DUMPSTER, AND PLACE PORT-O-LET. 3. INSTALL CONSTRUCTION AND SILT FENCING AS SHOWN ON THE PLANS. 4. PLACE TEMPORARY SEED IN ALL AREAS WHERE WORK WILL DISCONTINUE FOR 14 DAYS OR MORE. 5. IF SEEDED AREAS DO NOT PRODUCE A MINIMUM OF 70 PERCENT VEGETATIVE COVER CONTRACTOR SHALL RE-SEED TO OBTAIN

ENCLOSING OR COVERING STORED FUEL, IMPLEMENTING SPILL CONTROLS, AND TRAINING EMPLOYEES AND SUBCONTRACTORS IN PROPER

ONSITE VEHICLE AND EQUIPMENT FUELING SHOULD ONLY BE USED WHERE IT IS IMPRACTICAL TO SEND VEHICLES AND EQUIPMENT OFFSITE FOR

FUELING. SENDING VEHICLES AND EQUIPMENT OFFSITE SHOULD BE DONE IN CONJUNCTION WITH A STABILIZED CONSTRUCTION ENTRANCE/EXIT.

ABSORBENT SPILL CLEANUP MATERIALS AND SPILL KITS SHOULD BE AVAILABLE IN FUELING AREAS AND ON FUELING TRUCKS, AND SHOULD BE DISPOSED OF PROPERLY AFTER USE. DRIP PANS OR ABSORBENT POOLS SHOULD BE USED DURING VEHICLE AND EQUIPMENT FUELING, UNLESS THE FUELING IS PERFORMED OVER AN IMPERMEABLE SURFACE IN A DEDICATED FUELING AREA. USE ABSORBENT MATERIALS ON SMALL SPILLS. DO NOT HOSE DOWN OR BURY THE SPILL. REMOVE THE ABSORBENT MATERIALS PROMPTLY AND DISPOSE OF PROPERLY. AVOID MOBILE FUELING OF MOBILE CONSTRUCTION EQUIPMENT AROUND THE SITE; RATHER, TRANSPORT THE EQUIPMENT TO DESIGNATED FUELING AREAS. TRAIN EMPLOYEES AND SUBCONTRACTORS IN PROPER FUELING AND CLEANUP PROCEDURES. DEDICATED FUELING AREAS SHOULD BE PROTECTED FROM STORMWATER RUNON AND RUNOFF, AND SHOULD BE LOCATED AT LEAST 50 FT. AWAY FROM DOWNSTREAM DRAINAGE FACILITIES AND WATERCOURSES. FUELING MUST BE PERFORMED ON LEVEL-GRADE AREAS. PROTECT FUELING AREAS WITH BERMS AND DIKES TO PREVENT RUNON, RUNOFF, AND TO CONTAIN SPILLS. NOZZLES USED IN VEHICLE AND EQUIPMENT FUELING SHOULD BE EQUIPPED WITH AN AUTOMATIC SHUTOFF TO CONTROL DRIPS. FUELING OPERATIONS SHOULD NOT BE LEFT UNATTENDED. FEDERAL, STATE, AND LOCAL REQUIREMENTS SHOULD BE OBSERVED FOR ANY STATIONARY ABOVE GROUND STORAGE TANKS. VEHICLES AND EQUIPMENT SHOULD BE INSPECTED EACH DAY OF USE FOR LEAKS. LEAKS SHOULD BE REPAIRED IMMEDIATELY OR PROBLEM VEHICLES OR EQUIPMENT SHOULD BE REMOVED FROM THE PROJECT SITE. KEEP AMPLE SUPPLIES OF SPILL CLEANUP MATERIALS ONSITE. IMMEDIATELY CLEAN UP SPILLS AND PROPERLY DISPOSE OF CONTAMINATED SOIL AND CLEANUP MATERIALS. SOLID WASTE MANAGEMENT SOLID WASTE MANAGEMENT PROCEDURES AND PRACTICES ARE DESIGNED TO PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORMWATER FROM SOLID OR CONSTRUCTION WASTE BY PROVIDING DESIGNATED WASTE COLLECTION AREAS AND CONTAINERS, ARRANGING FOR REGULAR DISPOSAL, AND TRAINING EMPLOYEES AND SUBCONTRACTORS. HIS BMP IS SUITABLE FOR CONSTRUCTION SITES WHERE THE FOLLOWING WASTES ARE GENERATED OR STORED: SOLID WASTE GENERATED FROM TREES AND SHRUBS REMOVED DURING LAND CLEARING, DEMOLITION OF EXISTING STRUCTURES (RUBBLE), AND BUILDING CONSTRUCTION. PACKING MATERIALS INCLUDING WOOD, PAPER, AND PLASTIC. SCRAP OR SURPLUS BUILDING MATERIALS INCLUDING SCRAP METALS, RUBBER, PLASTIC, GLASS PIECES AND MASONRY DOMESTIC WASTES INCLUDING FOOD CONTAINERS SUCH AS BEVERAGE CANS, COFFEE CUPS, PAPER BAGS, PLASTIC WRAPPERS AND CIGARETTES CONSTRUCTION WASTES INCLUDING BRICK, MORTAR, TIMBER, STEEL AND METAL SCRAPS, PIPE AND ELECTRICAL CUTTINGS, NON-HAZARDOUS EQUIPMENT PORTS, STYROFOAM AND OTHER MATERIALS SEND TRANSPORT AND PACKAGE CONSTRUCTION MATERIALS. THE FOLLOWING STEPS WILL HELP KEEP A CLEAN SITE AND REDUCE STORMWATER POLLUTION: SELECT DESIGNATED WASTE COLLECTION AREAS ONSITE. • INFORM TRASH-HAULING CONTRACTORS THAT YOU WILL ACCEPT ONLY WATERTIGHT DUMPSTERS FOR ONSITE USE. INSPECT DUMPSTERS FOR LEAKS AND REPAIR ANY DUMPSTER THAT IS NOT WATERTIGHT. PROVIDE AN ADEQUATE NUMBER OF CONTAINERS WITH LIDS OR COVERS THAT CAN BE PLACED OVER THE CONTAINER TO KEEP RAIN OUT OR TO PREVENT LOSS OF WASTES WHEN IT IS WINDY. • PLAN FOR ADDITIONAL CONTAINERS AND MORE FREQUENT PICKUP DURING THE DEMOLITION PHASE OF CONSTRUCTION. COLLECT SITE TRASH DAILY, ESPECIALLY DURING RAINY AND WINDY CONDITIONS. REMOVE THIS SOLID WASTE PROMPTLY SINCE EROSION AND SEDIMENT CONTROL DEVICES TEND TO COLLECT LITTER. MAKE SURE THAT TOXIC LIQUID WASTES (USED OILS, SOLVENTS, AND PAINTS) AND CHEMICALS (ACIDS, PESTICIDES, ADDITIVES, CURING COMPOUNDS) ARE NOT DISPOSED OF IN DUMPSTERS DESIGNATED FOR CONSTRUCTION DEBRIS. DO NOT HOSE OUT DUMPSTERS ON THE CONSTRUCTION SITE. LEAVE DUMPSTER CLEANING TO THE TRASH HAULING CONTRACTOR. ARRANGE FOR REGULAR WASTE COLLECTION BEFORE CONTAINERS OVERFLOW. CLEAN UP IMMEDIATELY IF A CONTAINER DOES SPILL. MAKE SURE THAT CONSTRUCTION WASTE IS COLLECTED, REMOVED, AND DISPOSED OF ONLY AT AUTHORIZED DISPOSAL SOLID WASTE STORAGE AREAS SHOULD BE LOCATED AT LEAST 50 FT. FROM DRAINAGE FACILITIES AND WATER COURSES AND SHOULD NOT BE LOCATED IN AREAS PRONE TO FLOODING OR PONDING.

FUELING AREA AT A SITE.

DISCOURAGE "TOPPING-OFF" OF FUEL TANKS.

 INSPECT THE STORM MANHOLE WITH SNOUT. REMOVE ANY FLOATING DEBRIS ON A REGULAR BASIS AND HAVE SUMPS PROFESSIONALLY CLEANED ONCE A YEAR. **CAUTION SHOULD BE NOTED - ALL SUMPS ARE DEEP AND POTENTIALLY DANGEROUS. EXTREME CARE AND SAFETY MEASURES ALONG WITH OSHA GUIDELINES SHOULD BE FOLLOWED. COLLECTION, STORAGE, AND DISPOSA ITTERING ON THE PROJECT SITE SHOULD BE PROHIBITED. TO PREVENT CLOGGING OF THE STORM DRAINAGE SYSTEM, LITTER AND DEBRIS REMOVAL FROM DRAINAGE GRATES, TRASH

USE OFFSITE FUELING STATIONS AS MUCH AS POSSIBLE. THESE BUSINESSES ARE BETTER EQUIPPED TO HANDLE FUEL AND

SPILLS PROPERLY. PERFORMING THIS WORK OFFSITE CAN ALSO BE ECONOMICAL BY ELIMINATING THE NEED FOR A SEPARATE

ROCKS, AND DITCH LINES SHOULD BE A PRIORITY. TRASH RECEPTACLES SHOULD BE PROVIDED IN THE CONTRACTOR'S YARD, FIELD TRAILER AREAS, AND AT LOCATIONS WHERE WORKERS CONGREGATE FOR LUNCH AND BREAK PERIODS.

LITTER FROM WORK AREAS WITHIN THE CONSTRUCTION LIMITS OF THE PROJECT SITE SHOULD BE COLLECTED AND PLACED IN WATERTIGHT DUMPSTERS AT LEAST WEEKLY, REGARDLESS OF WHETHER THE LITTER WAS GENERATED BY THE CONTRACTOR, THE PUBLIC, OR OTHERS. COLLECTED LITTER AND DEBRIS SHOULD NOT BE PLACED IN OR NEXT TO DRAIN INLETS, STORMWATER DRAINAGE SYSTEMS, OR WATERCOURSES. DUMPSTERS OF SUFFICIENT SIZE AND NUMBER SHOULD BE PROVIDED TO CONTAIN THE SOLID WASTE GENERATED BY THE

FULL DUMPSTERS SHOULD BE REMOVED FROM THE PROJECT SITE AND THE CONTENTS SHOULD BE DISPOSED OF BY THE TRASH HAULING CONTRACTOR. CONSTRUCTION DEBRIS AND WASTE SHOULD BE REMOVED FROM THE SITE BIWEEKLY OR MORE FREQUENTLY AS NEEDED. CONSTRUCTION MATERIAL VISIBLE TO THE PUBLIC SHOULD BE STORED OR STOCKED IN AN ORDERLY MANNER. STORMWATER RUNON SHOULD BE PREVENTED FROM CONTACTING STORED SOLID WASTE THROUGH THE USE OF BERMS, DIKES, OR OTHER TEMPORARY DIVERSION STRUCTURES OR THROUGH THE USE OF MEASURES TO ELEVATE WASTE FROM SITE

INSPECTION AND MAINTENANCE NSPECT AND VERIFY THAT ACTIVITY-BASED BMP'S ARE IN PLACE PRIOR TO THE COMMENCEMENT OF ASSOCIATED ACTIVITIES. WHILE ACTIVITIES ASSOCIATED WITH THE BMP ARE UNDER WAY. INSPECT WEEKLY TO VERIFY CONTINUED BMP IMPLEMENTATION INSPECT BMP'S SUBJECT TO NON-STORMWATER DISCHARGE DAILY WHILE NON-STORMWATER DISCHARGES OCCUR.

ARRANGE FOR REGULAR WASTE COLLECTION. EVALUATION FOR CONSTRUCTION PROJECTS

A trained individual shall perform a written evaluation of the project site a By the end of the next business day following each rainfall that exceeds 0.5" b A minimum of one (1) time per week.

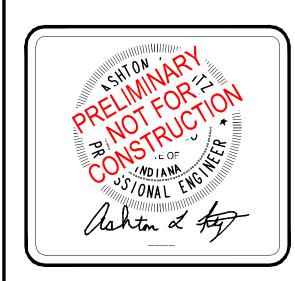
INSPECT CONSTRUCTION WASTE AREA REGULARLY.

Name of Trained Individual: _____ Date of Inspection: _____ Is this Evaluation following a rainfall _____ Yes _____ No __If yes – date the rain stopped: ______ Inches: _____ NO PROBLEM or CONCERN Is the site information posted at the entrance? Are all necessary permits attained and special provisions being implemented? 3 Is a construction entrance installed? Is it effective? Is it enough Public and private streets are clean? Are appropriate practices installed where stormwater leaves the site? Silt fence is entrenched into the ground? Silt fence is upright? Fabric and stakes meet specifications? Fabric is not to torn? Terminated to higher ground? Property joined at ends? Sediment basins and traps are installed according to the plan? The pipe or rock spillway is functional? The earthwork for erosion and sediment control practices is properly graded, seeded, and/or mulched? Diversion swales and/or waterbars are installed to plan and protected? Perimeter practices have adequate capacity and do not need to be cleaned out? Inlet protection is installed on all functional inlets? (not-filter fabric under grate) 13 Inlet protection is installed so water does not flow under it? The frame, cross-bracing, and/or stakes are adequate and meet specifications? The fabric, straw, mulch, and/or stone is intact without holes or tears Catch basin insert protection is installed where required? Sediment has been removed from the practice? 18 Swales and ditches have been stabilized or protected? 19 Stormwater outlets are adequately stabilized? Temporary Stabilization of distributed ground has been addressed? Disturbed areas that will lie dormant for 15 days are planned to be protected? All protected dormant areas meet a minimum 70% covierage Growing vegetation has sufficient water and/or nutrients to grow? Permanent stabilization of disturbed ground is progressing through the project? Final grading and stabilization is progressing on completed areas? The soil has been properly prepared for seeding? Hard or soft armoring is installed where natural vegetation will erode? 28 Water pumping operations have a protected outlet and discharge water is clear? A designated washout is established for concrete trucks 30 A dumpster is on-site for trash disposal? Fuel tanks and other toxic materials are safely stored and protected? 2 | Smaller construction sites not required to file a separate NOI are complying with the overall plan?

DANDY DEWATERING BAG DISCHARGE TIE DOWN STRAF HOSE SEWN IN SPOUT **DEWATERING BAG** FILTERED AGGREGATE OR STRAW SIDE VIEW (FOR ADDED FLOW)

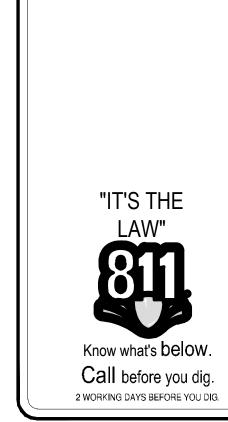
DETAIL OF A DEWATERING BAG

Fritz Engineering 14020 Mississinewa Drive Carmel, Indiana 46033 P: 317.324.8695 F: 317.324.8717 www.Fritz-Eng.com



REVISIONS AND ISSUES DATE BY

GENERAL NOTES / LEGEND



2140 N MORTON ST. FRANKLIN, INDIANA 46131 JOHNSON COUNTY SECTION, TOWNSHIP, RANGE: $NE_{\frac{1}{4}}$, S10, T12N, R4E

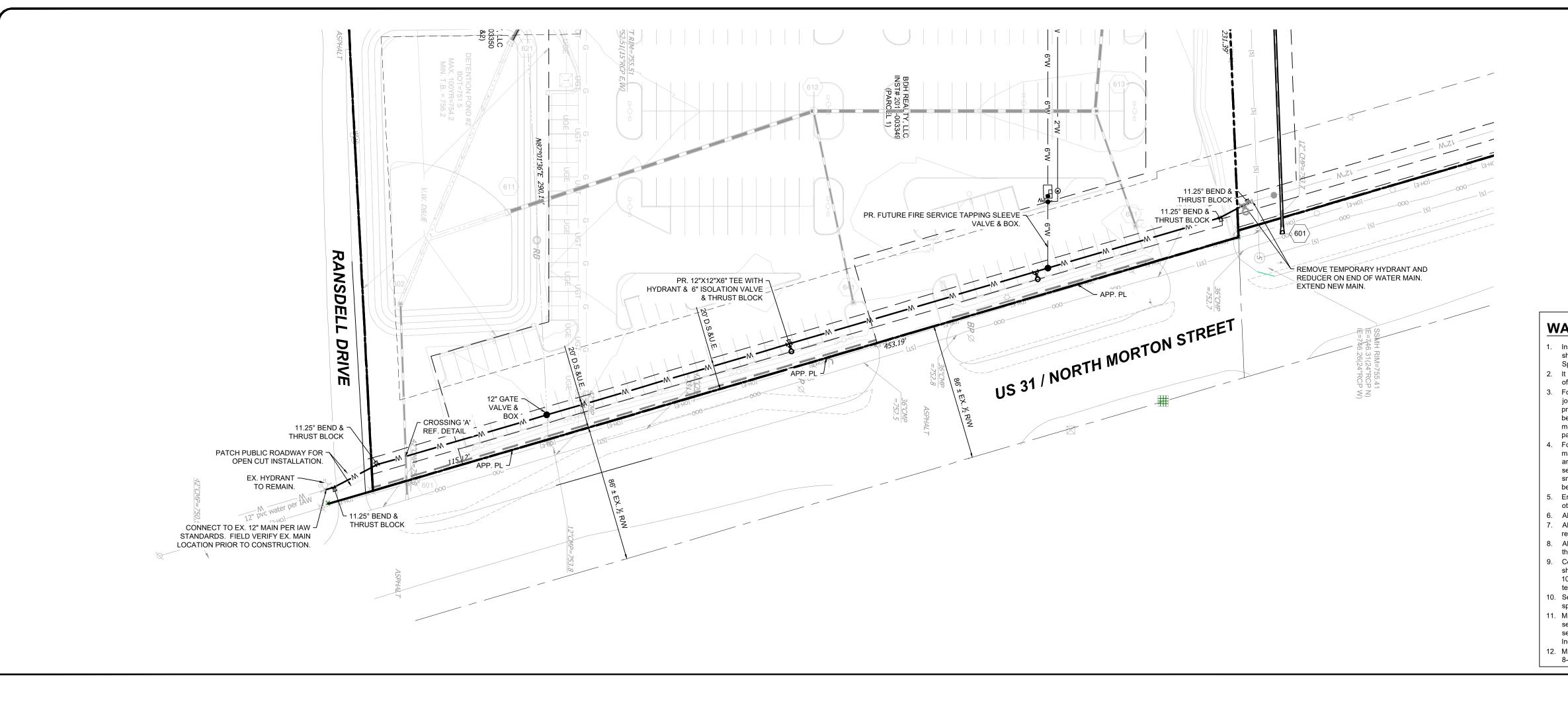
BDH REALTY 8220 SOUTH US 31 INDIANAPOLIS, INDIANA 46227

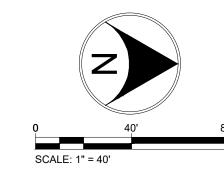
PLAN DATE 8/11/2021 DESIGN: AF PROJECT NO 2006003 SHEET NAME

SPECIFICATIONS

Contractor Representative contacted – name: _______ date: _____

ALL PROBLEMS OR CONCERNS NEED TO BE ADDRESSED WITH A CORRECTIVE ACTION Identify the problem by number and/or provide additional explanation as needed. Developer/Owner Representative contacted – name: _____





LEGEND:

FINISHED GRADE **EXISTING GRADE**

GRANULAR BACKFILL STORM STRUCTURE ID 6XX

Fritz Engineering
Services, LLC

14020 Mississinewa Drive Carmel, Indiana 46033 P: 317.324.8695 F: 317.324.8717 www.Fritz-Eng.com

REVISIONS AND ISSUES

GENERAL NOTES / LEGEND:

"IT'S THE

Know what's below.

Call before you dig. 2 WORKING DAYS BEFORE YOU DIG.

HUBLER FORD

DEALERSHIP

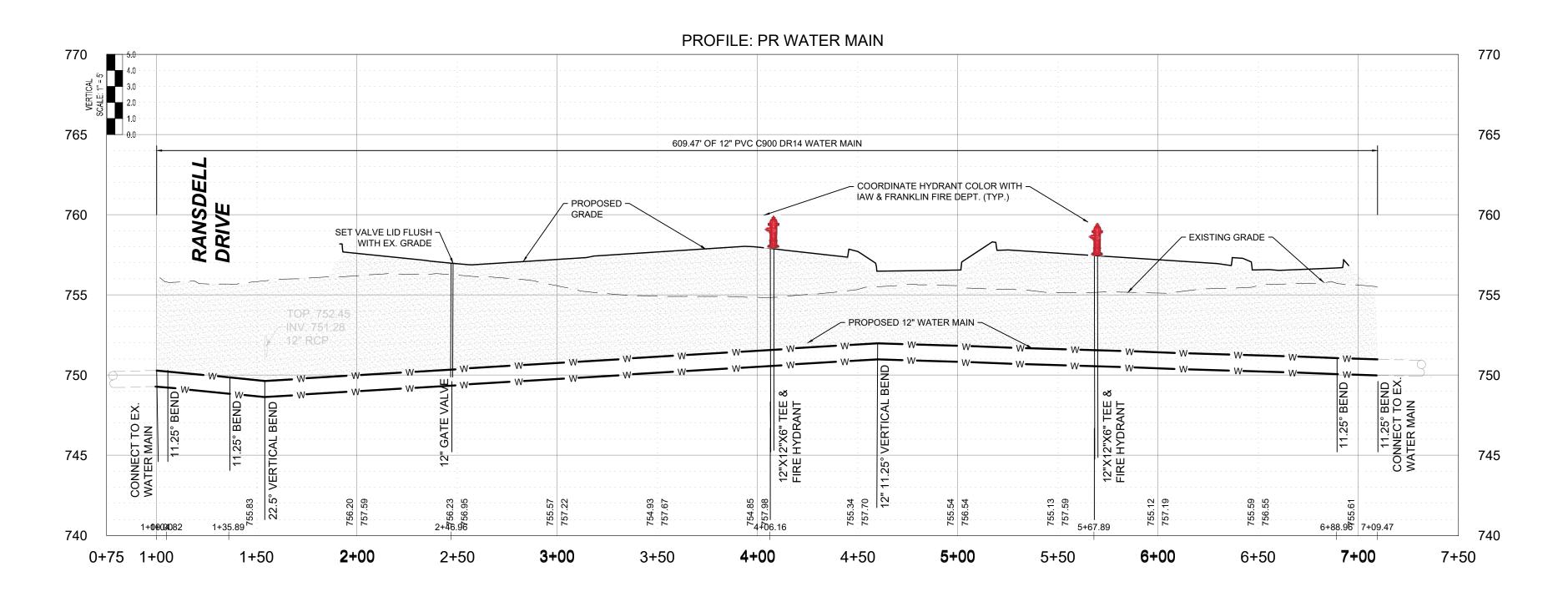
2140 N MORTON ST.

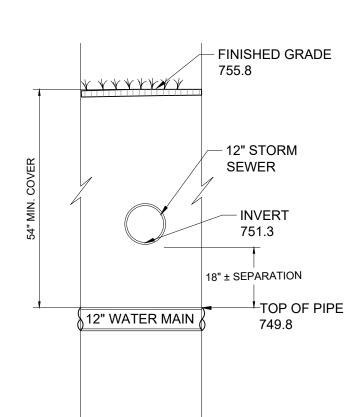
FRANKLIN, INDIANA 46131 JOHNSON COUNTY

 $NE^{\frac{1}{4}}$, S10, T12N, R4E

WATER UTILITY INSTALLATION NOTES

- Installation of water main, fittings, valves, fire hydrants, and appurtenances shall be in accordance with Indiana American Water Standards and Specifications, latest revision.
- It is the contractor's responsibility to field verify the location, size and material of the existing water main prior to construction.
- For PVC C900 pipe installation: DR14 pipe is required. Deflection of pipe joints and bending of pipes are not permitted. All angles shall be made with proper fittings. When restraint of pipe-to-pipe joints are required, all joints shall be restrained with external split serrated restraint harnesses. Select fill material required for bedding and embedment regardless of pipe's proximity to
- For Ductile Iron pipe installation: Thickness Class 52 for typical distribution mains 12-inch nominal size and smaller. When restraint of pipe-to-pipe joints are required, push-on restraining gaskets with integral stainless steel locking segments are permitted on pipe-to-pipe connections 12-inch nominal size and smaller only. Pipe-to-pipe connections greater than 12-inch nominal size shall be restrained per specification section 15105.
- Encase all ductile iron piping, ductile iron fittings, valves, hydrants, and all other metallic appurtenances in 12mil polyethylene.
- . All fire hydrant laterals shall be ductile iron pipe. All MJ T-bolts and flange bolts shall have Xylan or FluoroKote #1 corrosion
- 8. All fittings shall be restrained using MJ retainer glands or poured concrete
- thrust blocks. . Copper-clad steel tracer wire required on installation of all pipe. Tracer wire shall be taped to pipe or polyethylene encasement at a minimum spacing of 10-feet. Splices shall be encased in waterproof connectors. Continuity shall be
- tested after completion of backfill. 10. Select fill material required for final backfill when within 5-feet of pavement per specification section 02210.
- Maintain the required 10-feet of horizontal separation and 18-inches of vertical separation from sanitary and storm sewers. Maintain 8-feet of horizontal separation from sanitary and storm structures. See 327 IAC 8-3.2-9 of the Indiana Administrative Code for more information.
- 12. Maintain minimum cover depth of 54" and a maximum of 78". Per 327 IAC 8-3.2-17(d).





WATER MAIN CROSSING 'A

NOT TO SCALE

BDH REALTY 8220 SOUTH US 31 INDIANAPOLIS, INDIANA 46227

SECTION, TOWNSHIP, RANGE:

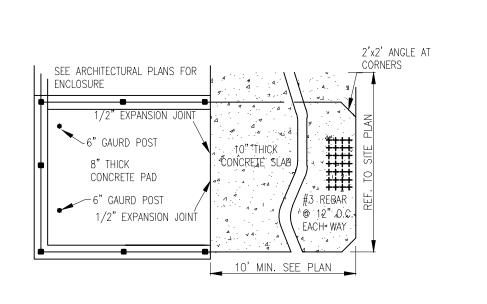
PLAN DATE: 8/11/2021 AF PROJECT NO.

SHEET NAME WATER MAIN PLAN &

C701

PROFILE SHEET NO.

2006003

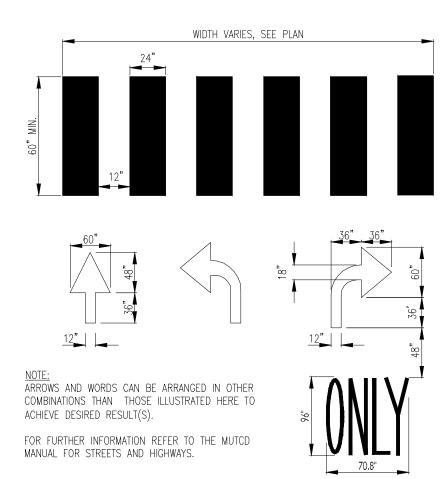


SEE ARCHITECTURAL PLAN FOR ENCLOSURE SLOPE FROM BACK TO FRONT -ELEVATION TO MATCH EDGE OF PAVEMENT /8" SLOPE ON CONC. SLAB, REF. GRADING PLAN

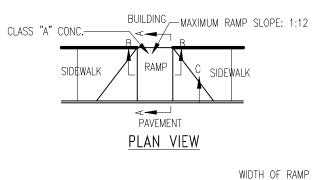
CONCRETE REQUIREMENTS

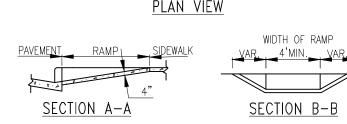
REFER TO PAVEMENT SPECIFICATIONS FOR

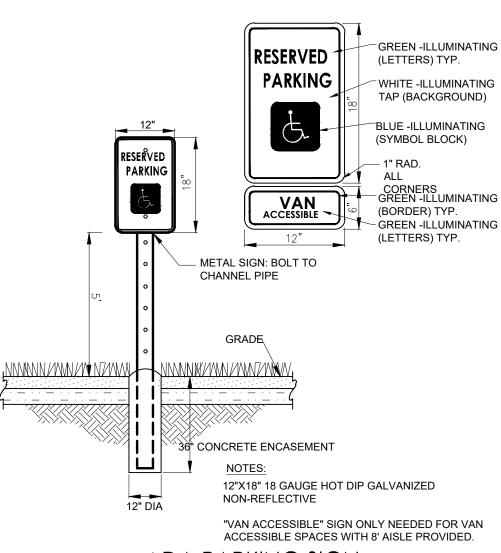
TRASH PAD (TYP)

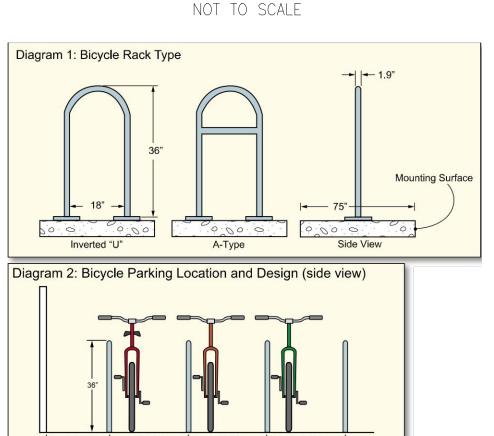


PAVEMENT MARKINGS





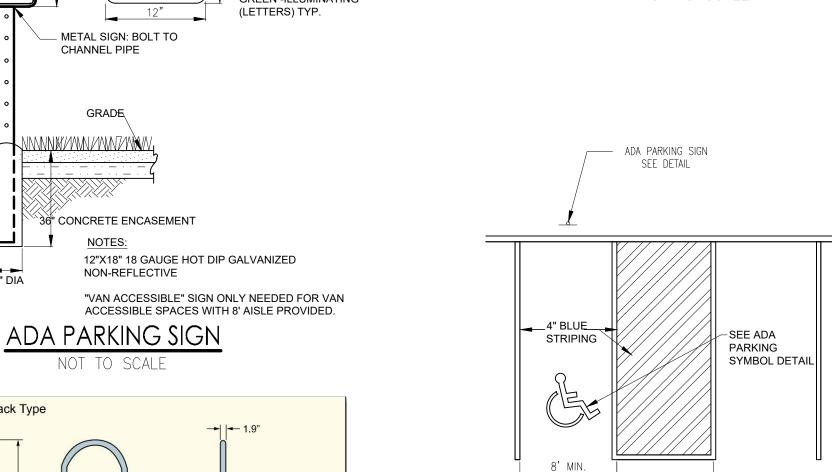




NOTES: TWO (2) BICYCLE PARKING SPACES REQUIRED, ONE (1) BICYCLE RACK REQUIRED 2. RACKS SHALL BE BLACK THERMOPLASTIC POWDER COATED AND FIXED IN PLACE WITH EITHER ANCHOR BOLTS OR CAST INTO CONCRETE PER MANUFACTURERS RECOMMENDATION AND REQUIREMENTS. 3. CONCRETE PAD SHALL BE MINIMUM OF 48" X 72" AND MATCH THE SIDEWALK

> BICYCLE PARKING LAYOUT DETAILS NOT TO SCALE

SECTION AND SPECIFICATIONS.





VAN ACCESSIBLE

SPACE. SEE SITE PLANS FOR

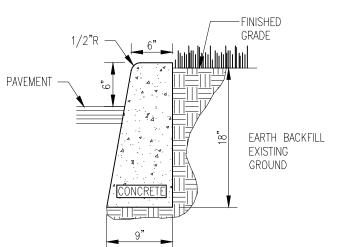
LOCATIONS

MAX. 2% SLOPE ANY DIRECTION

NOTE: ALL STRIPES TO BE

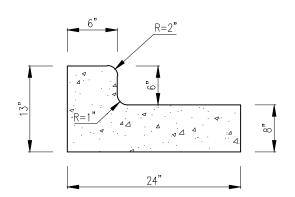
4" PAINTED BLUE

"ADA" PARKING SYMBOL DETAIL

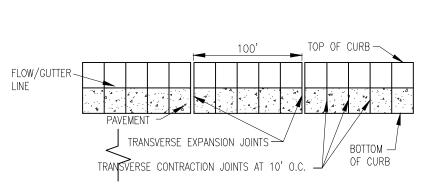


NOTE:

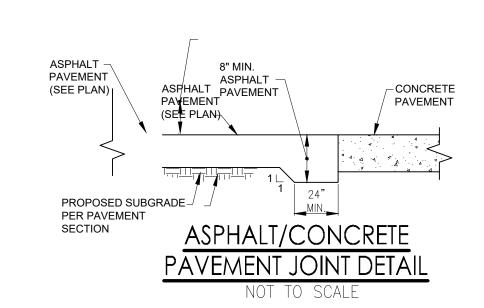
6" X 18" MONOLITHIC CURB DETAIL

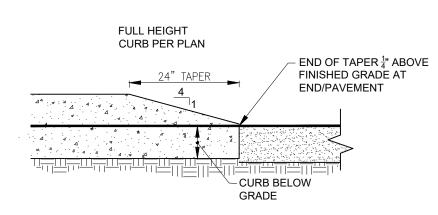


TYPICAL COMBINED **CURB & GUTTER** NOT TO SCALE

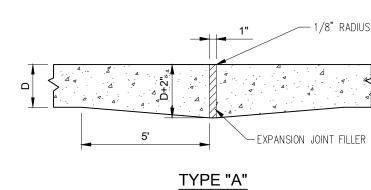


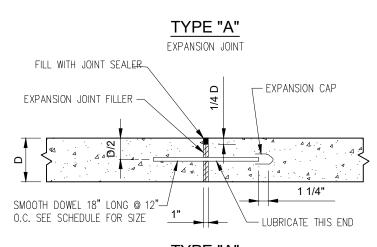
PROPOSED SUBGRADE PER PAVEMENT **CURB JOINT DETAIL** NOT TO SCALE

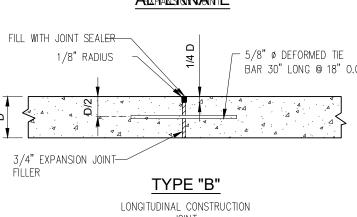


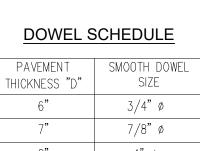


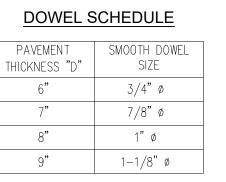
CONCRETE CURB TAPER DETAIL NOT TO SCALE

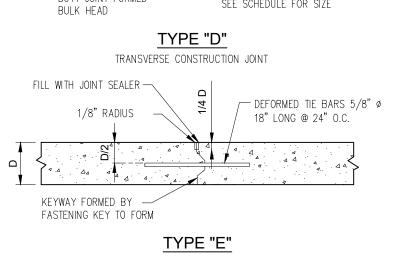












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1.5" 9.5MM BITUMINOUS

-2.5" 19MM BITUMINOUS

6" COMPACTED #53

CRUSHED LIMETSTONE

COMPACTED SUBGRADE

1.5" 9.5MM BITUMINOUS

-2.5" 12.5MM BITUMINOUS

-2.5" 19MM BITUMINOUS

8" COMPACTED #53

CRUSHED LIMETSTONE

COMPACTED SUBGRADE

-8" CONCRETE WITH #5 BARS 12" O.C. EACH WAY

__ 1-1/2" R

- PREMOLDED STRIP

/- PAVEMENT

6" COMPACTED #53 CRUSHED LIMETSTONE

COMPACTED SUBGRADE

INTERMEDIATE

LIGHT DUTY ASPHALT

NOT TO SCALE

HEAVY DUTY ASPHALT

NOT TO SCALE

CONCRETE PAVEMENT - TYPE 1

NOT TO SCALE

NOTES:

1. SUBGRADE SHALL BE PREPARED PER INDOT STANDARD SPECIFICATIONS SECTION 207, TYPE II.

COMPACTED SUBGRADE-

3. CONTRACTOR SHALL COORDINATE AND VERIFY PAVEMENT SECTIONS SHOWN W/ OWNER'S GEOTECHNICAL CONSULTANT.

TYPICAL PAVEMENT SECTION DETAILS

NOT TO SCALE

1:50 (MAX.)

SCORE 1/4" R

CONCRETE CURB AND WALK

FILL WITH JOINT SEALER

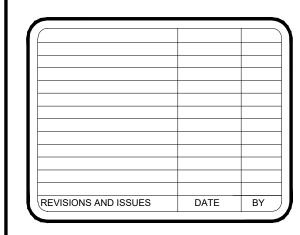
6' WIDE UNLESS NOTED OTHERWISE

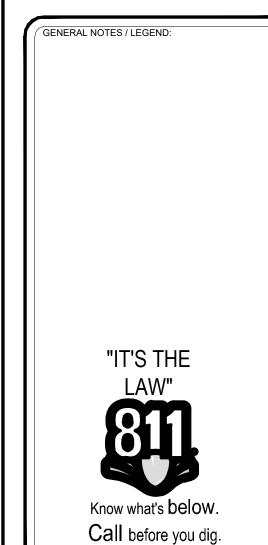
2. ADD TACK COAT BETWEEN ASPHALT LIFTS.

BUILDING -

GRADE\







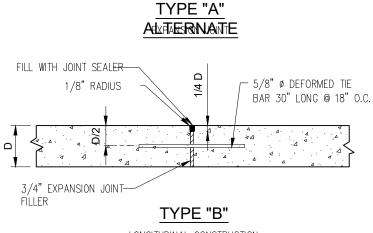


2 WORKING DAYS BEFORE YOU DIG.

2140 N MORTON ST. FRANKLIN, INDIANA 46131 JOHNSON COUNTY SECTION, TOWNSHIP, RANGE: $NE \frac{1}{4}$, S10, T12N, R4E

BDH REALTY 8220 SOUTH US 31 INDIANAPOLIS, INDIANA 46227

PLAN DATE: 8/11/2021 DESIGN: AF PROJECT NO. 2006003 SHEET NAME **GENERAL DETAILS** C801



─SMOOTH DOWEL 18" LONG @ 12" O.C. SEE SCHEDULE FOR SIZE TYPE "C" SAWED JOINT (LONGITUDINAL OR TRANSVERSE) FILL WITH JOINT SEALER └SMOOTH DOWEL 18" LONG @ 12" O.C. SEE SCHEDULE FOR SIZE

JOINT DETAILS

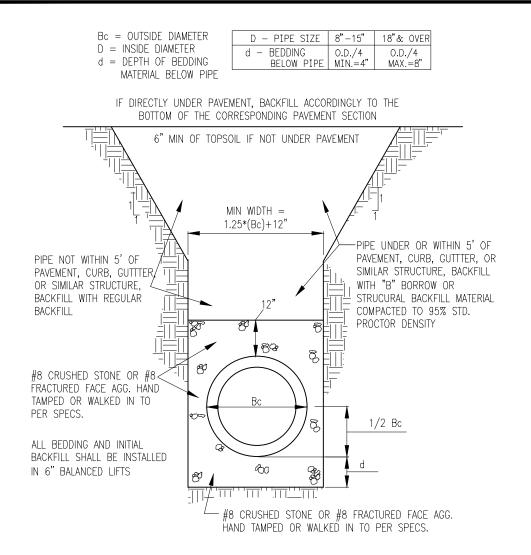
CONTRACTION JOINT (TYP.) SECTION C-C FLARED CURB RAMP NOT TO SCALE

6" GALVANIZED IRON — PIPE, SCHD 40 FILL WITH CONCRETE -PAINT POST WITH TWO -COATS OF ZINC CHROMATE PRIMER (YELLOW) 3000 PSI CONCRETE-TYPICAL PIPE BOLLARD /

ROUND OFF CONCRETE-

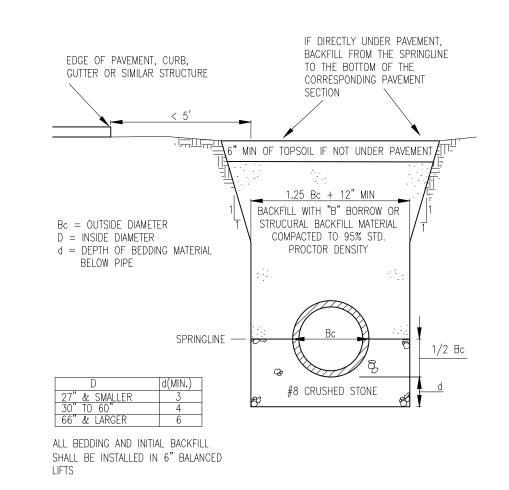
GUARD POST DETAIL NOT TO SCALE

TIED TRANSVERSE CONSTRUCTION JOINT



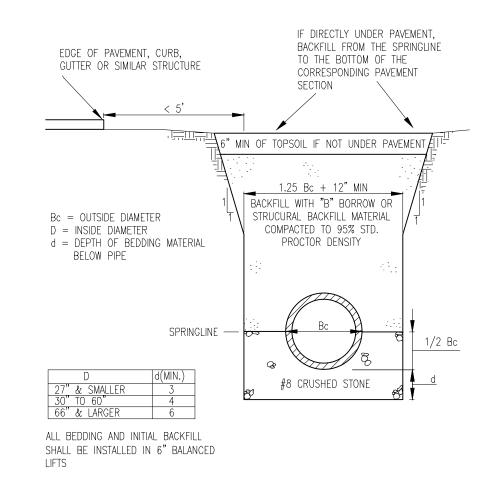
HDPE BEDDING SECTION DETAIL

ALSO FOR PVC/FLEXIBLE NOT TO SCALE PIPE AND SERVICE LATERALS

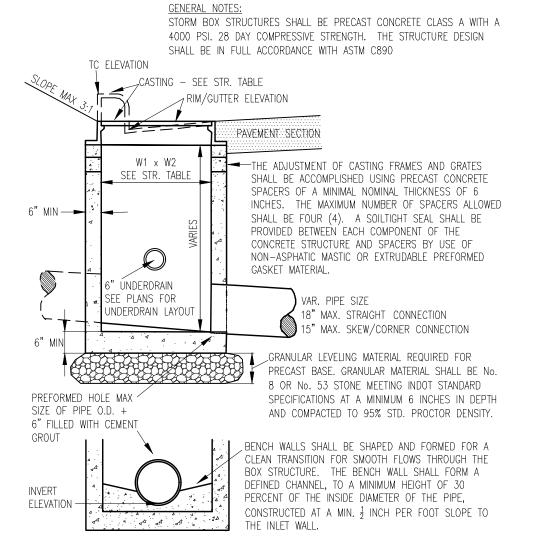


RCP BEDDING SECTION < 5' FROM **EDGE OF PAVEMENT**

NOT TO SCALE

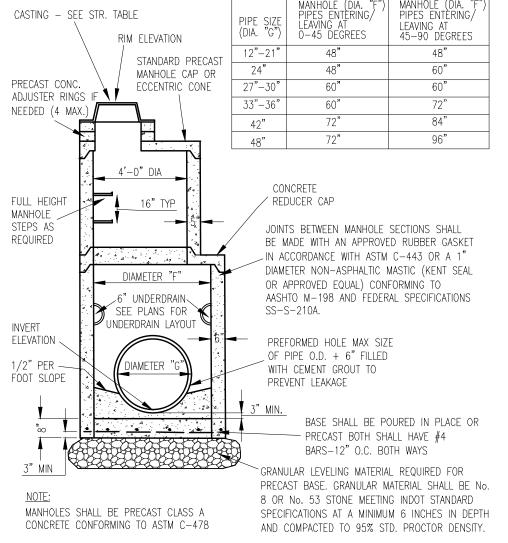


RCP BEDDING SECTION < 5' FROM **EDGE OF PAVEMENT** NOT TO SCALE



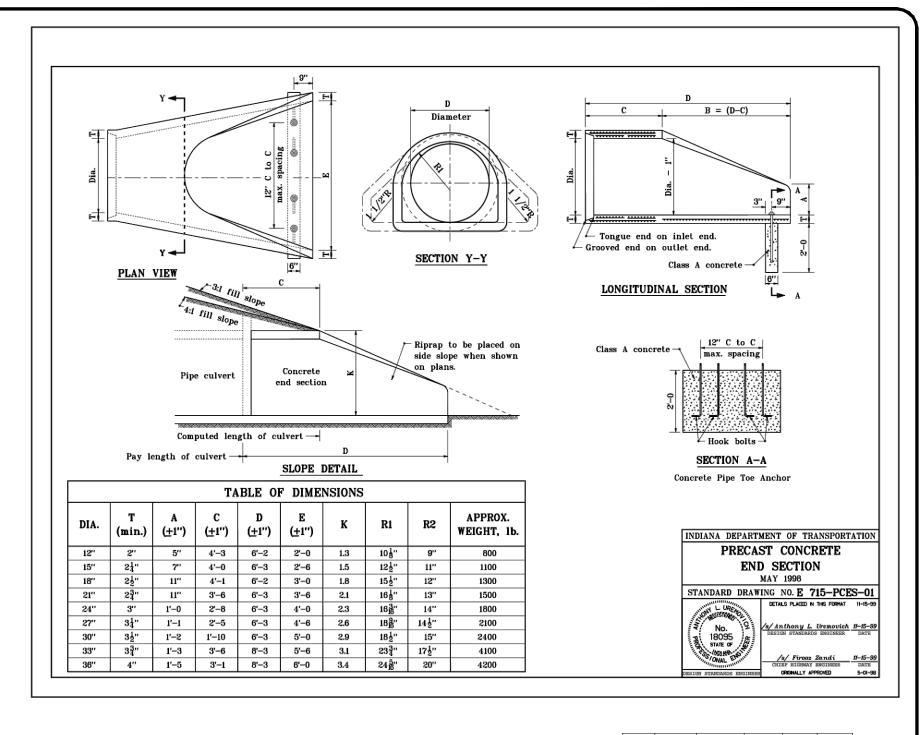
STORM BOX STRUCTURE

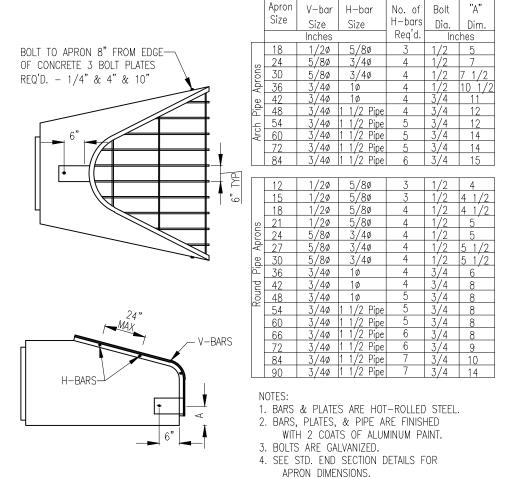
NOT TO SCALE



STANDARD STORM MANHOLE

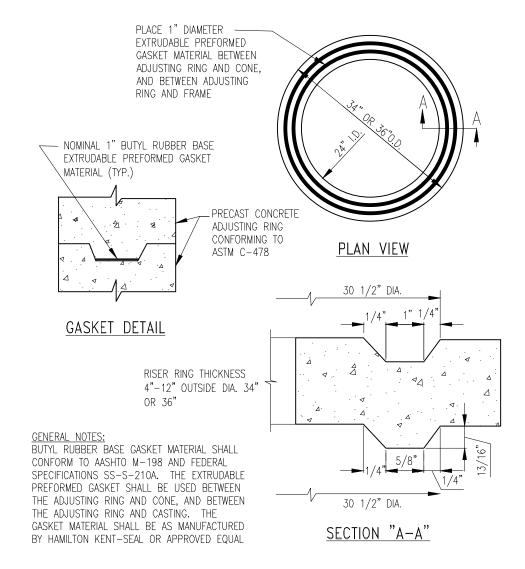
NOT TO SCALE





ANIMAL/TRASH GUARDS FOR CONC. END SECTIONS

NOT TO SCALE



ADJUSTING RING DETAIL

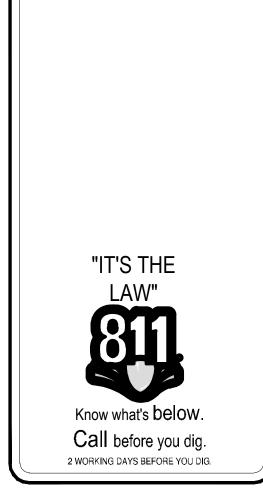
NOT TO SCALE





REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND



HUBLER FORD **DEALERSHIP**

PROJECT LOCATION: 2140 N MORTON ST. FRANKLIN, INDIANA 46131 JOHNSON COUNTY SECTION, TOWNSHIP, RANGE: $NE \frac{1}{4}$, S10, T12N, R4E

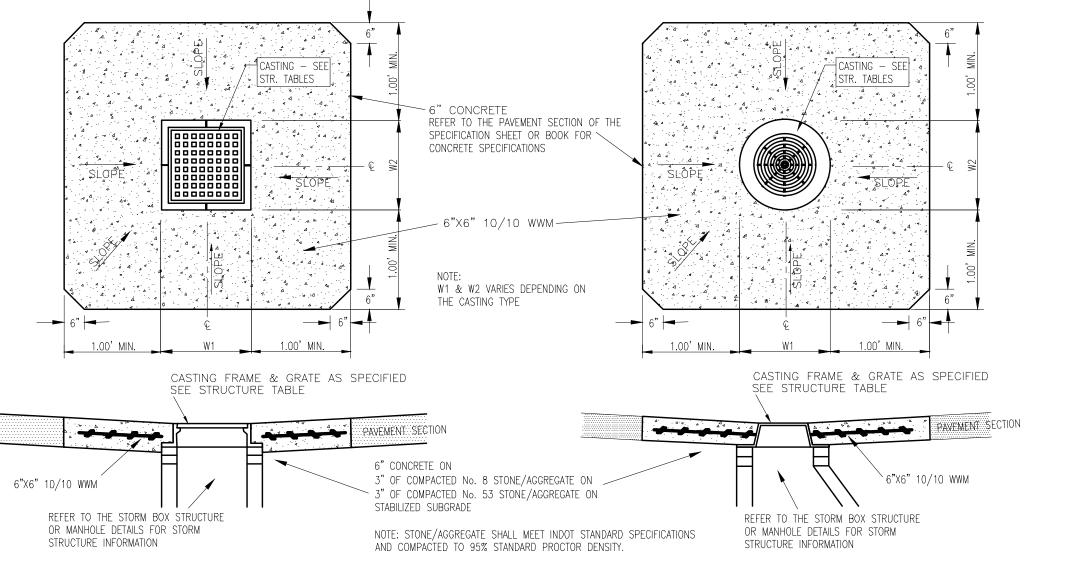
BDH REALTY 8220 SOUTH US 31

INDIANAPOLIS, INDIANA 46227

PLAN DATE: 8/11/2021 AF PROJECT NO. 2006003

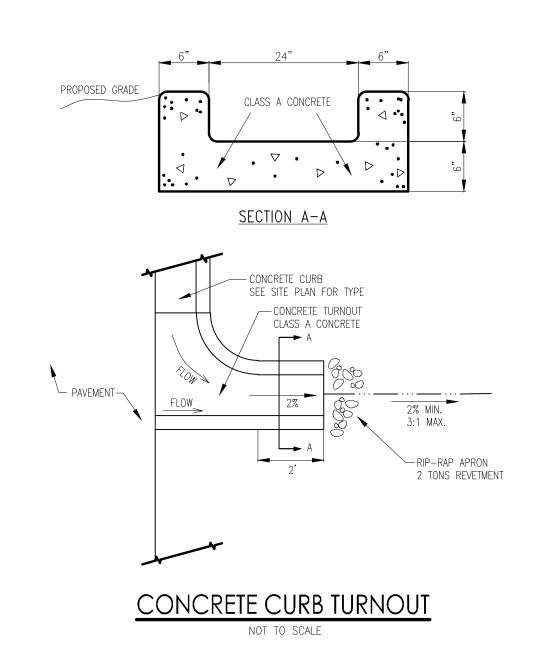
SHEET NAME **GENERAL DETAILS**

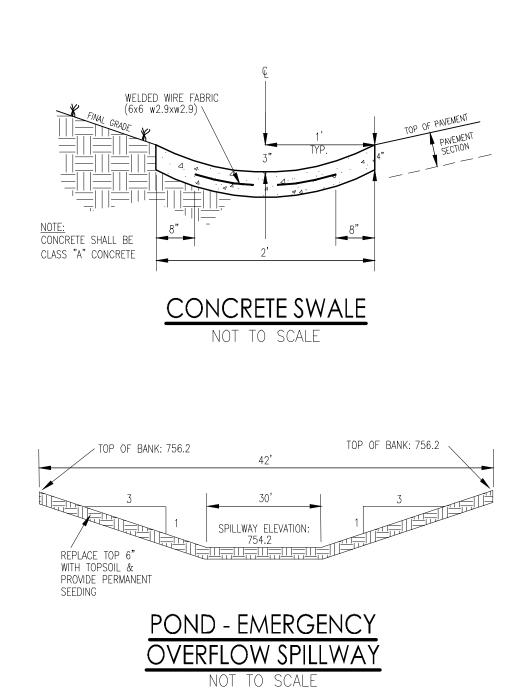
C802

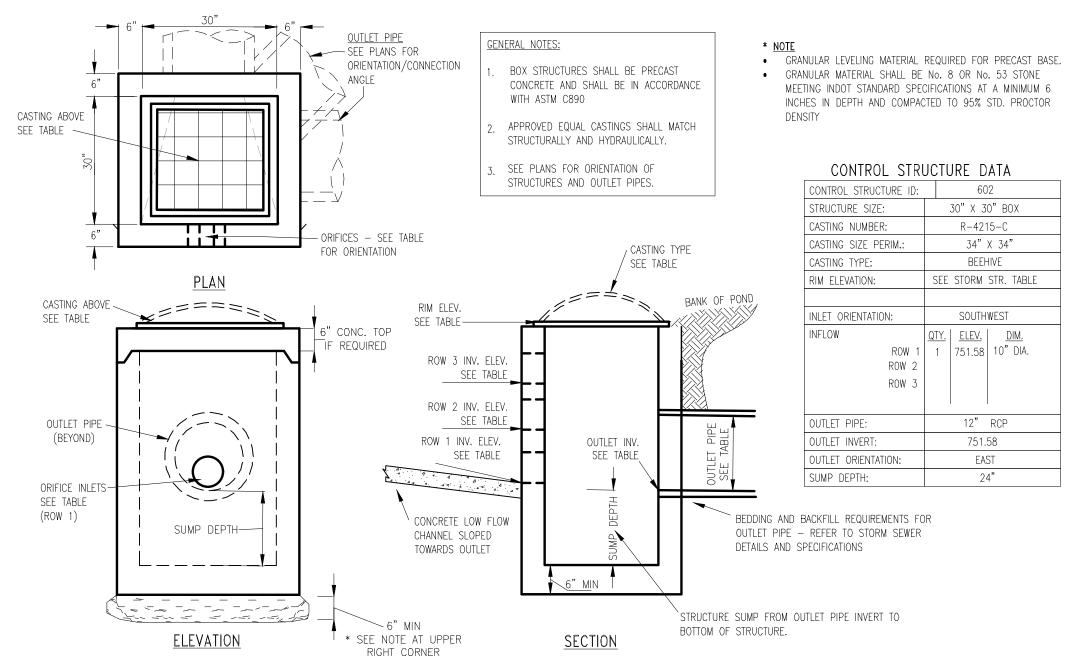


STORM STRUCTURE CONCRETE APRON

NOT TO SCALE

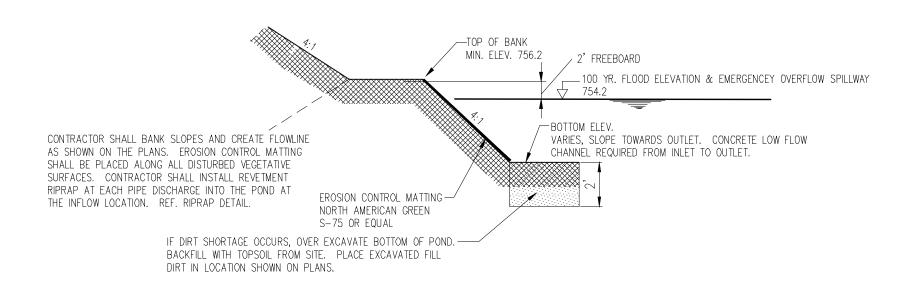






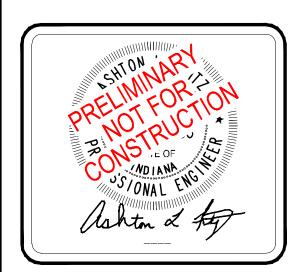
DETENTION POND OUTLET CONTROL STRUCTURE DETAIL

NOT TO SCALE



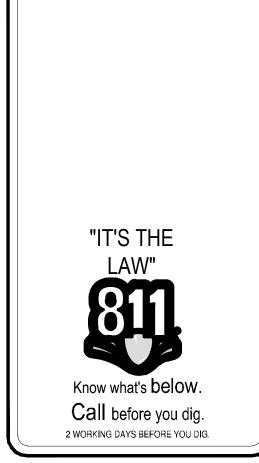
DETENTION POND TYPICAL SECTION





		$\overline{}$
		\top
REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:



HUBLER FORD DEALERSHIP

PROJECT LOCATION:

2140 N MORTON ST.

FRANKLIN, INDIANA 46131

JOHNSON COUNTY

SECTION, TOWNSHIP, RANGE:

 $NE \frac{1}{4}$, S10, T12N, R4E

BDH REALTY

8220 SOUTH US 31 INDIANAPOLIS, INDIANA 46227

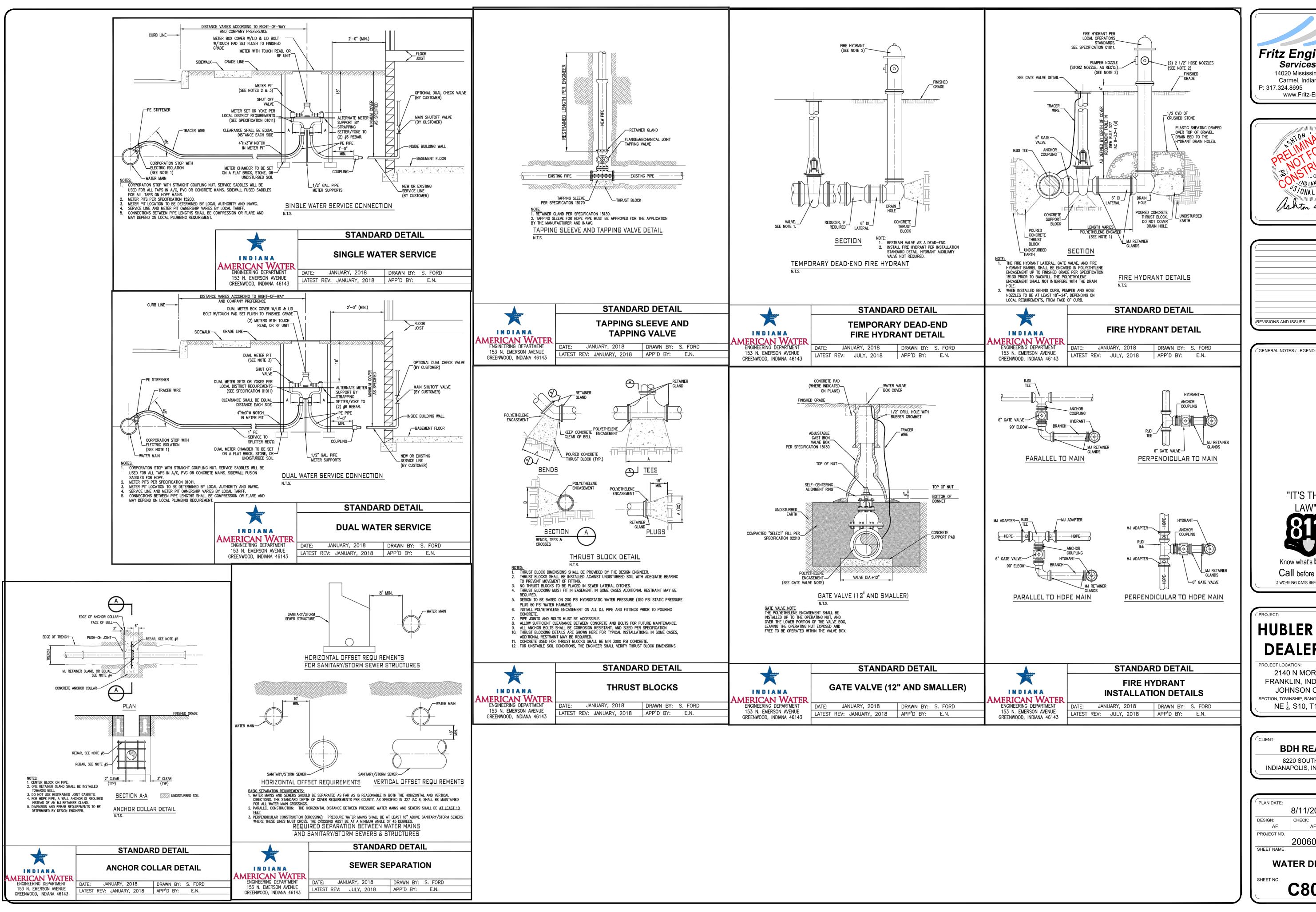
DETENTION BASIN
DETAILS

C803

SHEET NO.

PKINI EU BY: Asnion Fritz
DATE: 81/12021 3:02 PM
SHEET SIZE, SCALE: ANSI FULL BLEED D (34.00 X 22.00 INCHES), 1:1
FILE NAME: F:\u00d3020000003 - HUBLER FORDIOZ ON/ILPANSIFORD DEALERSHIP/C801.DWG,

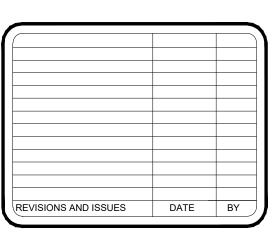
shton Fritz



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HUBLER FORD DEALERSHIP

PROJECT LOCATION: 2140 N MORTON ST. FRANKLIN, INDIANA 46131 JOHNSON COUNTY SECTION, TOWNSHIP, RANGE: NE_{4}^{1} , S10, T12N, R4E

BDH REALTY

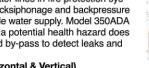
8220 SOUTH US 31 INDIANAPOLIS, INDIANA 46227

PLAN DATE 8/11/2021 DESIGN: AF PROJECT NO. 2006003 SHEET NAME

WATER DETAILS



Designed for installation on water lines in fire protection systems to protect against both backsiphonage and backpressure of polluted water into the potable water supply. Model 350ADA shall provide protection where a potential health hazard does not exist. Incorporates metered by-pass to detect leaks and unauthorized water use.





Standards Compliance (Horizontal & Vertical) ASSE® Listed 1048 AWWA Compliant C510 (with gates only), and C550

 CSA® Certified B64.5 UL® Classified

 C-UL® Classified FM® Approved Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of

Southern California • NYC MEA 221-04M-2 (2 1/2" - 8") Meets the requirements of NSF/ANSI 61* *(0.25% MAX, WEIGHTED AVERAGE LEAD CONTENT)

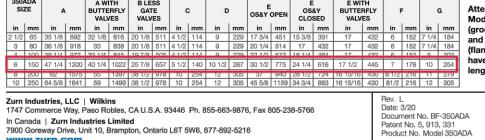
By-Pass Backflow Assembly 3/4" Model 950XLD Main valve body Ductile Iron ASTM A 536 Ductile Iron ASTM A 536 Access covers Coatings NSF Approved electrostatic epoxy

Stainless steel, 300 Series Internals Fasteners & Springs Stainless Steel, 300 Series EPDM (FDA approved) Buna Nitrile (FDA approved) Polymers NÖRYL™

Sizes: 2 1/2"*, 3"* , 4", 6", 8", 10" Maximum working water pressure Maximum working water temperature 140°F 350 PSI Hydrostatic test pressure End connections (Grooved for steel pipe) AWWA C606 (Flanged bolt pattern) ASME B16.42 Class 150

*2 1/2" & 3" sizes use 4" body & reducer couplings

Dimensions & Weights (do not include pkg.) in. mm lbs. kg lbs. kg lbs. kg lbs. kg lbs. kg



In Canada | Zurn Industries Limited 7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, 877-892-5216

(Suffixes can be combined) with flanged end OS & Y gate valves (standard) less shut-off valves (grooved body connections)

less water meter with gallon meter (standard) □ CFM with cu ft meter with cu meter meter with grooved end connections with flanged inlet connection and grooved outlet connection with Post Indicator Gate Valves

with grooved end butterfly valves with

integral supervisory switches

with flanged end butterfly valves with integral supervisory switches Repair kit (rubber only) Thermal expansion tank (Model XT)

□ OS & Y Gate valve tamper switch (OSY-40)

Model 350ADA

(grooved body) and Model 350D/

(flange body) have different lay

The Double Check Detector Backflow Prevention Assembly shall be certified to NSF/ANSI 61, ASSE® Listed 1048, and supplied with full port gate valves. The main body and access cover shall be epoxy coated ductile iron (ASTM A 536), the seat ring and check valve shall be Noryl™ (NSF Listed), the stem shall be stainless steel (ASTM A 276) and the seat disc elastomers shall be EPDM. The first and second check valves shall be accessible for maintenance without removing the device from the line. The Double Check Detector Backflow Prevention Assembly shall be a ZURN WILKINS Model 350ADA.

Zurn Industries, LLC | Wilkins 1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph. 855-663-9876, Fax 805-238-5766 In Canada | Zurn Industries Limited 7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, 877-892-5216

MODEL 350ADABG (Vertical Installation)

Flow Characteristics

Typical Installation

the unit can be submerged.

Local codes shall govern installation requirements. Unless

otherwise specified, the assembly shall be mounted at a mini-

mum of 12" (305mm) and a maximum of 30" (762mm) above

adequate drains with sufficient side clearance for testing and

maintenance. The installation shall be made so that no part of

Page 2 of 2

♦Rated Flow (established by approval agencies)

Capacity thru Schedule 40 Pipe (GPM)

Pipe size 5 ft/sec 7.5 ft/sec 10ft/sec 15 ft/sec

4" 198 298 397 595

Mrashka siMrashMra Valleshkas

DIRECTION OF FLOW →

MODEL 350ADA (Outdoor Installation)

115 173 230 346

MODEL 350ADA 2 1/2", 3" & 4" (STANDARD & METRIC)

FLOW RATES (I/s)

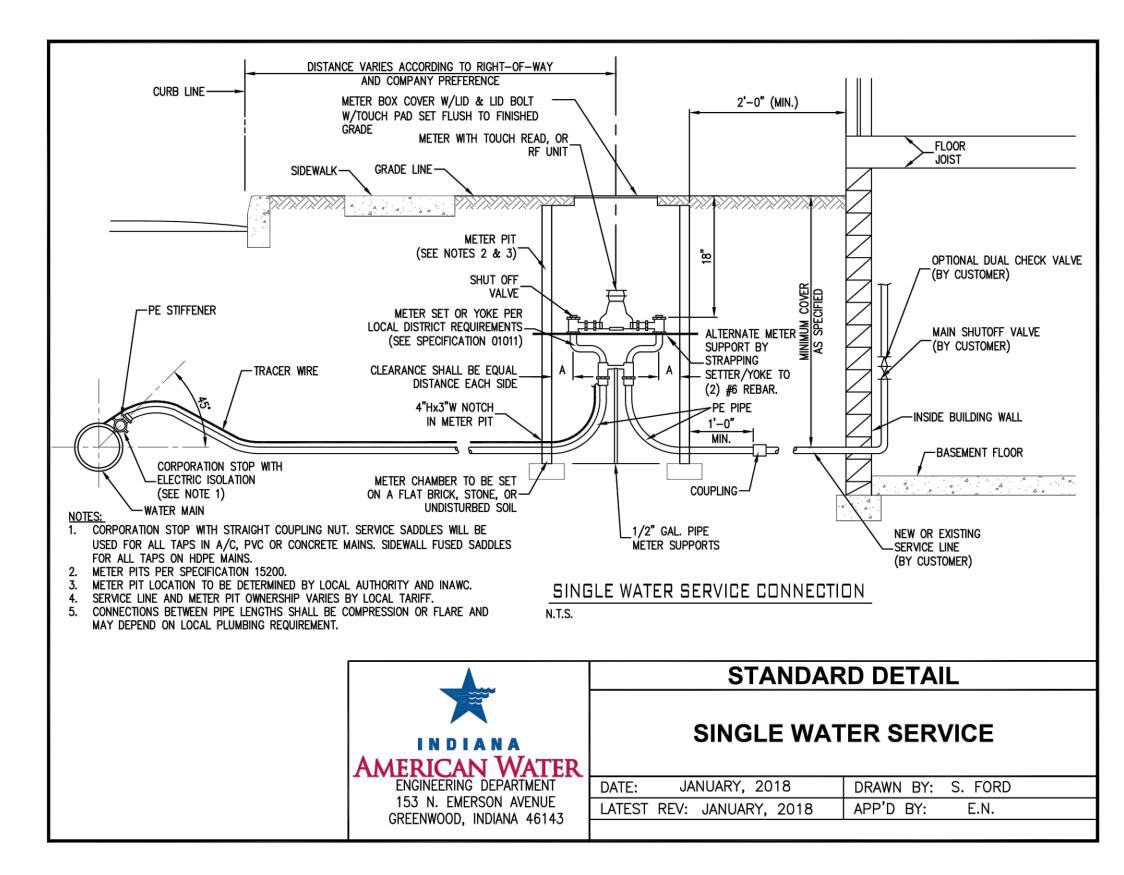
25.2

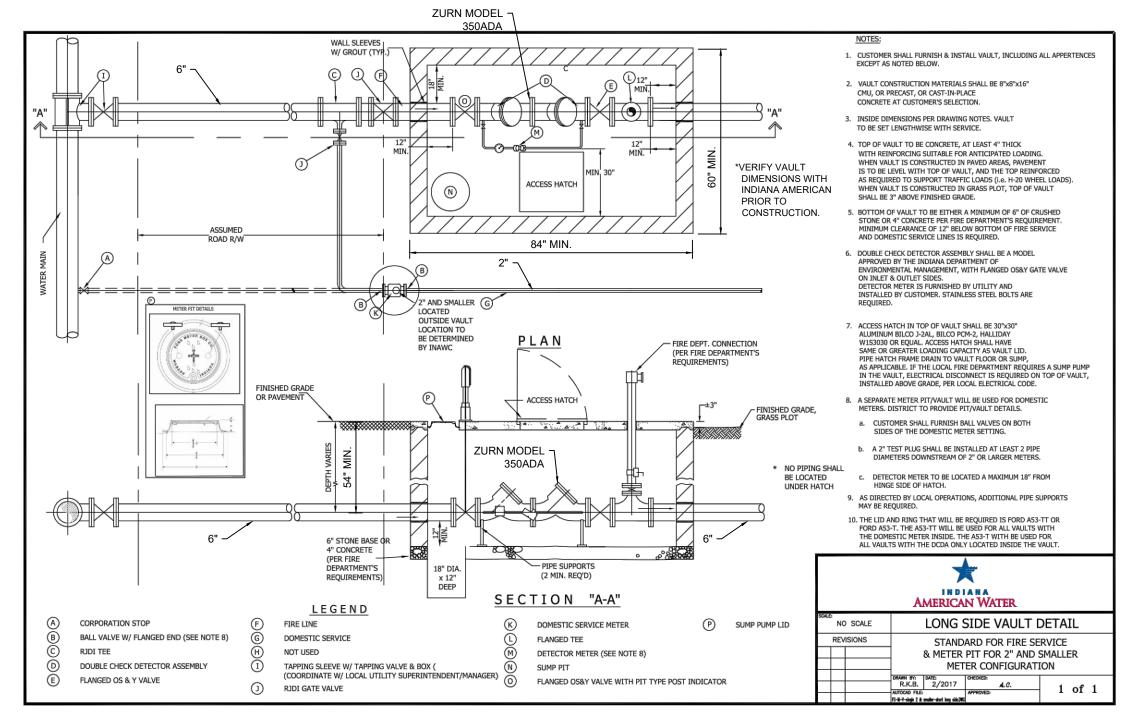
FLOW RATES (GPM)

MODEL 350ADA 6", 8" & 10" (STANDARD & METRIC)

126.2

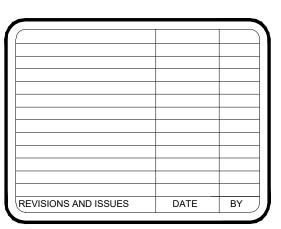
FLOW RATES (GPM)



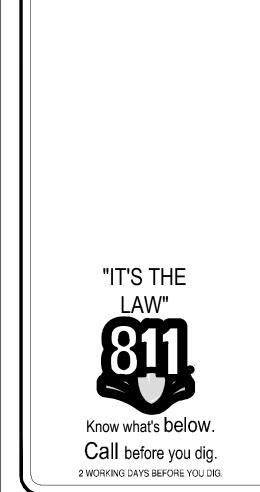








GENERAL NOTES / LEGEND:



HUBLER FORD **DEALERSHIP**

PROJECT LOCATION: 2140 N MORTON ST. FRANKLIN, INDIANA 46131 JOHNSON COUNTY SECTION, TOWNSHIP, RANGE: $NE \frac{1}{4}$, S10, T12N, R4E

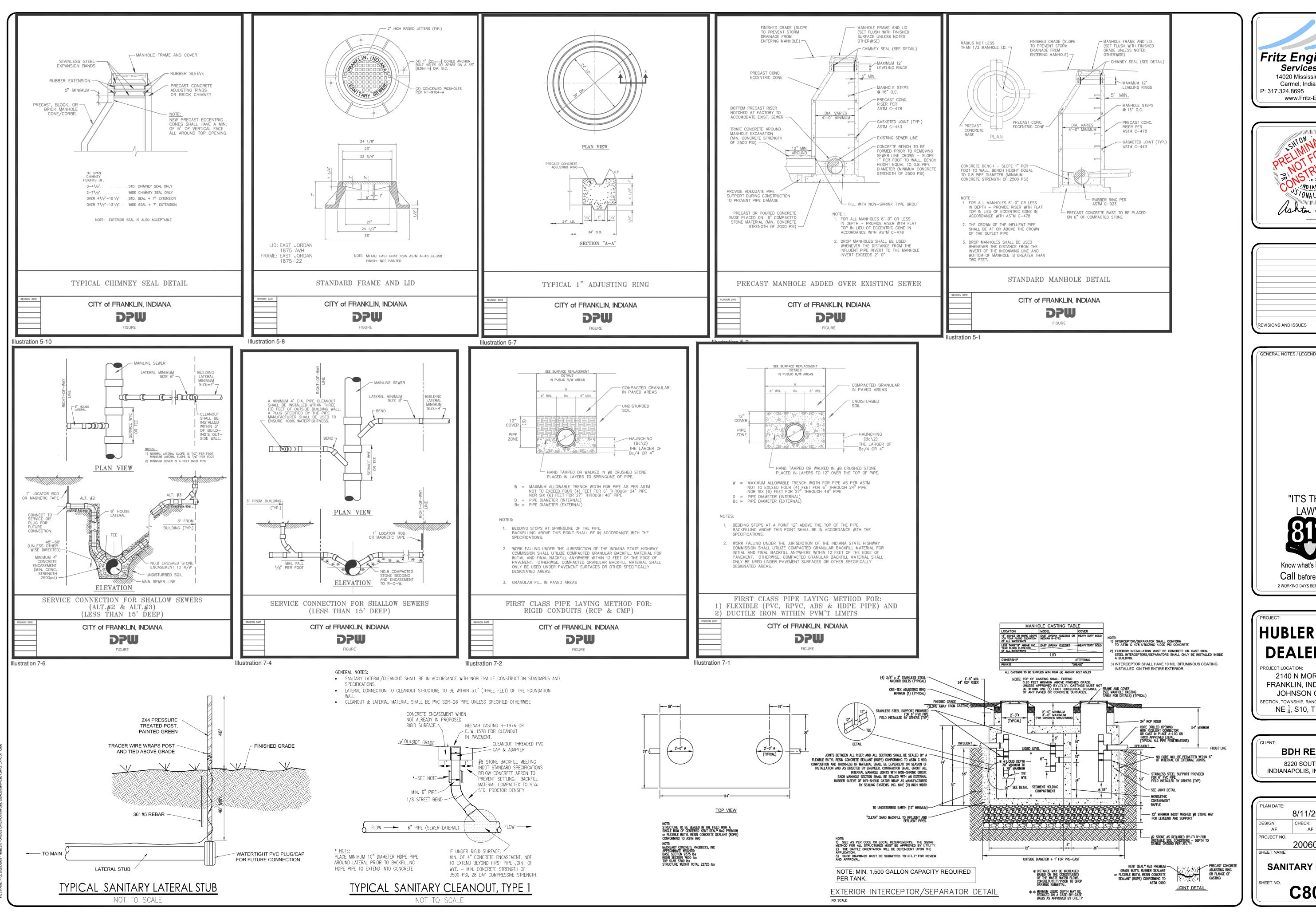
BDH REALTY

8220 SOUTH US 31 INDIANAPOLIS, INDIANA 46227

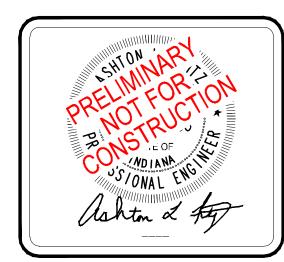
PLAN DATE:

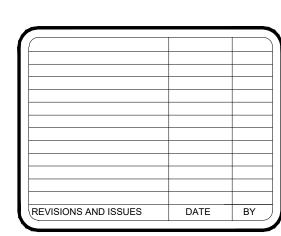
8/11/2021 DESIGN: AF KG PROJECT NO. 2006003 SHEET NAME

WATER DETAILS



Fritz Engineering Services, LLC 14020 Mississinewa Drive Carmel, Indiana 46033 P: 317.324.8695 F: 317.324.8717 www.Fritz-Eng.com







HUBLER FORD **DEALERSHIP**

PROJECT LOCATION: 2140 N MORTON ST. FRANKLIN, INDIANA 46131 JOHNSON COUNTY SECTION, TOWNSHIP, RANGE: $NE \frac{1}{4}$, S10, T12N, R4E

BDH REALTY 8220 SOUTH US 31 INDIANAPOLIS, INDIANA 46227

PLAN DATE: 8/11/2021

DESIGN: AF KG PROJECT NO. 2006003 SHEET NAME **SANITARY DETAILS**

A. SCOPE OF WORK

- 1. The work required under this section includes all exterior concrete and bituminous paving and related items necessary to complete the work indicated on drawings and described in the specifications, including but not limited to:
- All drives, parking areas within contract limits

Sidewalks, concrete slabs, exterior steps

- Curbs and gutters
- B. MATERIALS

1. Concrete: Concrete shall be ready-mixed and shall be a mix of proportioned fine and coarse aggregates with Portland cement and water. Minimum cement content shall be 6 bags per cubic yard of concrete and maximum water content shall be 5.5 U.S. gallons per sack of cement, including moisture in the aggregate. Slump for normal weight concrete shall be a maximum of 4 inches and a minimum of 2 inches. The slump of machine placed concrete shall be no less than 1-1/4 inches or more than 3 inches. Standard test ASTM C-143 shall be used to measure slump. Minimum compressive strength of concrete at 28 days shall be 4000 psi. All exterior concrete shall have air entrainment of 5% to 8% by volume per ASTM C-260.

- a. Portland cement: conforming to ASTM C-150, Type IA or type IIIA.
- b. Aggregates: conforming to ASTM C-33.c. Water: Shall be clear and free from injurious amounts of oils, acids, alkalics organic materials or other deleterious substances.

Re-tempering of delivered concrete shall not be permitted. Concrete shall be composed of:

- 2. Pre-molded Joint Filler: Shall be non-extruding type meeting ASTM D-544, except that pre-molded joint filler used in concrete walk construction may be either non-extruding or recilient.
- 3. Bituminous Pavement Materials: All materials proposed for the construction of bituminous pavements shall comply with the Indiana Department of Transportation Standard Specifications, latest revisions.
- 4. Compacted Aggregate Sub-base
 - If a certain type of aggregate is specified and labeled per the plans and/or details, than that aggregate shall meet and be in accordance with the INDOT Standard Specifications.
 - If the aggregate is not specified or labeled than it shall be crushed stone or gravel meeting the following requirements. Crushed gravel shall be a minimum of 35% crushed material. Fines shall be limited to a maximum of 8% of the total. Material shall be free from an excess of flat, elongated, thinly laminated soft or disintegrated pieces, and shall be free from fragments coated with dirt. Compacted aggregate shall have a gradation as presented below.

SIEVE SIZE	% PASSING
1-1/2"	100
1"	80-100
3/4"	70-90
1/2"	55-80
#4	35-60
#8	25-50
#30	2-30
#200	5-10
11200	0.0

C. <u>APPLICATION</u>

- 1. Grading: Do any necessary grading in addition to that performed in accordance with EARTHWORK Section, to bring sub-grades, after final compaction, to the required grades and sections for site improvement.
- 2. Preparation of Sub-grade: Remove spongy and otherwise unsuitable material and replace with stable material. No traffic shall be allowed on prepared sub-grade prior to paving.
- 3. Compaction of Sub-grade: Refer to Section 207 of the INDOT Standard Specification Manual.
- 4. Utility Structures: Check for correct elevation of all manhole covers, inlets, valve boxes and similar structures located within areas to be paved and mark, or have made any necessary adjustments to such structures.

5. Placing Concrete:

- a. Sub-grade: Place concrete only on a moist, compacted sub-grade of base free from loose material. No concrete shall be placed on a muddy or frozen subgrade.
- b. Forms: All forms shall be free from warp, tight enough to prevent leakage and substantial enough to maintain their shape and position without springing or settling when concrete is placed. Forms shall be clean and smooth immediately before concreting.
- c. Placing Concrete: Concrete shall be deposited so as to require as little handling as practicable. When concrete is to be placed at an atmospheric temperature of 35 degrees (F) or less, the Indiana Department of Transportation Standard Specifications, latest revision shall be followed.

6. Concrete Curb and Gutter:

- a. Expansion Joints: Shall be 1/2 inch thick pre-moulded at ends of all returns and a maximum spacing of 100 feet.
- b. Contraction Joints: Unless otherwise provided, contraction joints shall be joints spaced 10 feet on center.
- c. Finish: Tamp and spread concrete as soon as placed, and fill any honeycombed places.

 Finish square corners to 1/4 inch radius or as otherwise required.

7. Concrete Walks and Exterior Steps:

- a. Slopes: Provide 1/4 inch per foot cross slope. Contractor shall make field adjustments in slopes at walk intersections as necessary to provide proper drainage.
- b. Dimensions: Walks and steps shall be one course construction and of widths and thickness shown on the drawings.
- c. Finish: Spread concrete and trowel with a steel trowel to a hard dense surface after surface water has disappeared. Apply medium broom finish and scribe control joints at 6 foot spacing. Provide 1/2 inch expansion joints where sidewalks intersect and at a maximum spacing of 48 feet along walks.
- 8. Curing Concrete: Except as otherwise specified, cure all concrete by one of the methods described in the Indiana Department of Transportation Standard Specifications, latest revision.
- 9. Bituminous Pavement: Hot asphalt concrete pavement shall be as specified in the Indiana Department of Transportation Standard Specifications, latest revisions. Paving will not be permitted during unfavorable weather or when the temperature is 40 degrees (F) or below and falling
- 10. Compacted Aggregate Sub-base: The thickness shown on the drawings is the minimum thickness of the fully compacted sub-base: Compaction shall be accomplished by rolling with a smooth wheeled roller weighing 8 to 10 tons. Compact to 95% compaction using Standard Testing Procedures. Along curbs, headers and walls and at all places not accessible to the roller, the aggregate material shall be tamped with mechanical tampers.

EARTHWORK

SCOPE OF WORK The work required under this section consists of all excavating, filling, rough graditions of the section consists of all excavating.

- Extent: The work required under this section consists of all excavating, filling, rough grading and related items necessary to complete the work indicated on the drawings and described in the specifications. The Contractor shall notify in writing the Owners and the Engineer of any changes, errors, or omissions found on the plans or in the field, before work is started or resumed.
- a. In general, the items of work to be performed under this section shall include clearing and grubbing, removal of trees and stumps (where required), protection of trees to remain, stripping and storage of topsoil, fill, compaction and rough grading of entire site as indicated on the drawings.
- of topsoil, fill, compaction and rough grading of entire site as indicated on the drawings.
 b. Excavated material that is suitable may be used for fill. All unsuitable material and all surplus excavated material not required shall be removed from the site by the Contractor. The location of dump and length of haul shall be the Contractor's responsibility.
- c. Provide and place any additional fill material from off the site as may be necessary to produce the grades required. Fill obtained from offsite shall be of kind and quality as specified herein, and as approved by the Engineer & Owner.
- 2. The Contractor shall accept the site as he finds it and shall remove all trash, rubbish and debris from the site prior to starting excavation.
- 3. Work not included: The following items of related work are specified and included in other sections of these specifications.
- a. Excavation, grading and backfilling for utility lines.
- b. Storm drainage systems.
- c. Sanitary sewer systems.
- d. Water supply systems.e. Drives and paving
- e. Drives and paving.

B. BENCHMARKS

 Maintain carefully all bench marks, monuments and other reference points. If disturbed or destroyed, replace as directed by the Engineer.

C. REMOVAL OF TREES

- 1. Remove all trees and stumps from area to be occupied by road and surfaced areas. Removal of trees outside these areas shall only be done as noted on drawings or approved by the Owner.
- 2. All brush, stumps, wood and other refuse from the trees shall be removed from the site or burned with proper permits (where applicable).

D. PROTECTION OF TREES

1. General Protection: the Contractor shall be responsible for the protection of tops, trunks and roots of existing trees on the project site that are to remain. Existing trees subject to construction damage shall be boxed, fenced or otherwise protected before any work is started; do not stockpile within branch spread. Remove interfering branches without injury to trunks and cover scars with tree paint.

E. STRIPPING OF TOPSOIL

1. Remove topsoil to a depth of 6 inches (or as indicated by Owner's Geotechnical Engineer) from the areas to be occupied by roads, walks, buildings, and parking areas. Pile and store topsoil at a location where it will not interfere with construction operations. Top soil shall be reasonably free from subsoil, debris and stones larger than 2 inches.

F. DISPOSITION OF UTILITIES

- 1. Rules and regulations governing the respective utilities shall be observed in executing all work under this
- 2. It shall be the responsibility of each contractor to verify all existing utilities and conditions pertaining to his phase of the work. It shall be the contractor's responsibility to contact the owners of the various utilities before work is started. The contractor shall notify in writing the owners or the engineers of any changes, errors or omissions found on these plans, and/or in the field before work is started or resumes.
- 3. Where active utilities are encountered but not shown on the drawings, the Contractor shall notify the Utility Company, Owner and Engineer prior to proceeding with any work. An appropriate course of action shall be agreed upon by the Utility Company, Owner and Engineer prior to work commencing.
- 4. Inactive and abandoned utilities encountered in excavating and grading operations shall be reported to the Engineer. They shall be removed, plugged or capped as directed by the Engineer and/or Utility Company.

G. SITE GRADING

- 1. Grades: Perform all cutting, filling, compacting of fills and rough grading required to bring entire project area to subgrade as shown on the drawings. Undercut open areas 4" for topsoil.
- 2. Rough grading: the tolerance for paved areas shall not exceed 0.10 feet above established subgrade. All other areas shall not exceed 0.10 feet plus or minus the established grade. Provide roundings at top and bottom of banks and other breaks in grade. All open areas shall be graded a minimum of 0.5% and a maximum of 3H:1V slope.
- 3. Sub-grade shall be proof rolled with suitable equipment and all spongy and otherwise unsuitable material shall be removed and replaced with suitable material. Contractor shall coordinate the proof roll procedure with the agency having jurisdiction to ensure proper representation is in attendance for the test.
- 4. Sub-grade for building areas shall be compacted to a minimum compaction of 95% Modified Proctor Density or per the Archetectual/Structural Construction Plans for the corresponding building area. The Archetectual/Structural plans shall govern.
- 5. Sub-grade for streets and paved areas See PAVEMENT specifications.
- See PAVEMENT section for additional information.
- 7. All fill material shall be formed from soil free of deleterious material. Prior to placement of fill, a sample of the proposed material shall be submitted to the Owner's Geotechnical Engineer for approval. The fill material shall be placed in layers not to exceed 8" in loose thickness and shall be spread and compacted at the proper moisture content.
- 8. All fill material in areas outside of building and pavement areas shall be compacted lightly with each lift and protected from erosion. Areas of building construction shall have suitable fill material placed and compacted in accordance with the Soils Engineer's report and per sub-section 4 described above in this Section.
- 9. The Contractor shall verify all earthwork quantities prior to the start of construction. The Contractor shall notify the Owner and Engineer in writing if excess or shortage of earth quantities is encountered and verify requirements for stockpiling, removal or importing earth. Owner and Engineer hereby reserve the right to allow minor adjustments in proposed grades to reduce an earth quantity disparity.

H. SEEDING PREPARATION

- 1. Contractor shall resolve any surface or subsurface drainage problems and construct permanent erosion control structures.
- 2. Remove all rocks, roots or other materials that may interfere with seedbed preparation.
- 3. Perform the major filling, shaping and smoothing of gullied or severely eroded areas.
- 4. Have soil tested to check pH and fertility levels. Apply lime at rate specified in seeding specifications on the plans
- 5. Work all lime and fertilizer into the soil to a depth of 2-3 inches with a small disk, harrow or rake operated across the slope as much as possible.
- 6. Firm the soil bed where possible. Do not over pack the soil to ensure compacting does not restrict water and root penetration into the soil.

STORM SEWER SYSTEMS

Storm construction procedures, materials, testing, details and specifications shall be in accordance with CITY OF FRANKLIN STORMWATER AND ENGINEERING TECHNICAL AND CONSTRUCTION STANDARDS. Please refer to these standards, specifications, and details for all storm sewer system construction.

WATER & FIRE SUPPRESSION SYSTEMS

Water construction procedures, materials, testing, details and specifications shall be in accordance with INDIANA AMERICAN WATER WATER TECHNICAL & CONSTRUCTION STANDARDS. Please refer to these standards, specifications, and details for all water system construction.

Fire Suppression systems construction procedures, materials, testing, details and specifications shall be in accordance with INDIANA AMERICAN WATER UTILITY AND FRANKLIN FIRE DEPARTMENT TECHNICAL & CONSTRUCTION STANDARDS. Please refer to these standards, specifications, and details for all fire suppression system construction.

DEWATERING AND CONTROL OF SURFACE WATER

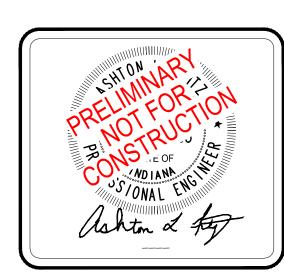
Whenever groundwater is encountered, the CONTRACTOR shall make every practical effort to secure a dry trench bottom before laying pipe. The CONTRACTOR shall provide, install and operate sufficient trenches, sumps, pumps, hose, piping, well points, etc. to depress and maintain the groundwater level below the base of the excavation. If the CONTRACTOR is unable to remove the standing water in the trench, the CONTRACTOR shall over-excavate the proposed bottom grade of the sewer bedding, and place not less than three (3) inches of No. 8 crushed stone in the over-excavated area.

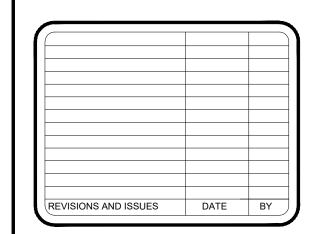
The CONTRACTOR shall keep the site free of surface water at all times and shall install drainage ditches, dikes, pumps, and perform other work necessary to divert or remove rainfall and other accumulation of surface water from excavations. The diversion and removal of surface and/or groundwater shall be performed in a manner which will prevent the accumulation of water within the construction area. UNDER NO CIRCUMSTANCES SHALL SURFACE WATER AND/OR GROUNDWATER BE DISCHARGED TO, DISPOSED OF OR ALLOWED TO FLOW INTO AN ACTIVE SANITARY SEWER SYSTEM.



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GENERAL NOTES / LEGEND

"IT'S THE LAW"
SILLAW"
Know what's below.
Call before you dig.

HUBLER FORD
DEALERSHIP

2 WORKING DAYS BEFORE YOU DIG.

PROJECT LOCATION:

2140 N MORTON ST.

FRANKLIN, INDIANA 46131

JOHNSON COUNTY

SECTION, TOWNSHIP, RANGE:

NE \(\frac{1}{4} \), S10, T12N, R4E

BDH REALTY

8220 SOUTH US 31 INDIANAPOLIS, INDIANA 46227

SHEET NO

GENERAL SPECIFICATIONS

C901

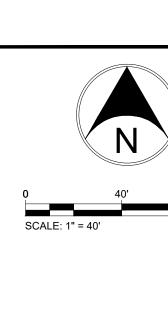
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DATE: 8/11/2021 3:06 PM
SHEET SIZE, SCALE: ANSI FULL BLEED D (34.00 X 22.00 INCHES), 1:1

3. IN THE EVENT THESE PLANS OR SUPPLEMENTAL SPECIFICATIONS ARE IN CONFLICT WITH SAID STANDARDS, THE MORE STRINGENT REQUIREMENTS SHALL BE USED.

I. ALL WORK SHALL BE IN ACCORDANCE WITH ALL CITY OF FRANKLIN CONSTRUCTION STANDARDS AND SPECIFICATIONS (STANDARDS) UNLESS SPECIFICALLY NOTED

2. INDIANA STATE DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD

SPECIFICATIONS, LATEST EDITION, TO BE USED WITH THESE PLANS. (SUPPLEMENTAL



SYMBOL LEGEND

EXISTING TREE

PROPOSED CANOPY TREE

PROPOSED ORNAMENTAL TREE/ LARGE SHRUB

PROPOSED EVERGREEN TREE

PROPOSED SHRUB

PLANT MATERIAL SHALL BE SELECTED AND INSTALLED TO COMPLY WITH THE FOLLOWING REQUIREMENTS:

- 1. LANDSCAPE MATERIALS SELECTED SHALL BE APPROPRIATE TO LOCAL GROWING AND CLIMATE CONDITIONS AND FOLLOW THE GUIDELINES SET BY THE AMERICAN STANDARD FOR NURSERY STOCK. ANSI Z60.1 (CURRENT EDITION) AMERICAN ASSOCIATION OF NURSERYMEN, INC.
- 2. ALL PLANTS SHALL BE OF SPECIMEN QUALITY, SUPERIOR FORM, HEALTHY, VIGOROUS, WELL BRANCHED, DENSELY FOLIATED WHEN IN LEAF, FREE OF DISEASE AND INSECTS EGGS OR LARVAE AND SHALL HAVE WELL-DEVELOPED ROOT SYSTEMS. PLANTS SHALL BE FREE FROM DAMAGE OR CONDITIONS THAT WOULD PREVENT NORMAL GROWTH.
- 3. ALL PLANTING MATERIAL SHALL BE IN ACCORDANCE WITH THE MOST CURRENT PUBLICATION OF THE AMERICAN STANDARD FOR NURSERY STOCK AS PRODUCED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE, INC.
- a. ALL PLANT MATERIAL SHALL BE MAINTAINED ALIVE, HEALTHY, AND FREE FROM DISEASE AND PESTS AND ALL PLANT MATERIALS WHICH DIE FOLLOWING THEIR INSTALLATION SHALL BE REPLACED WITH IDENTICAL VARIETIES OR SUITABLE SUBSTITUTIONS.
- b. ALL LANDSCAPED AREAS SHALL BE FREE OF WEEDS, LITTER, GRAFFITI, AND SIMILAR SIGNS OF DEFERRED MAINTENANCE.

c. ALL LANDSCAPE STRUCTURES SUCH AS FENCES AND WALLS SHALL BE REPAIRED OR REPLACED PERIODICALLY

- TO MAINTAIN AESTHETICALLY APPROPRIATE AND STRUCTURALLY SOUND CONDITIONS.

 d. THE MAINTENANCE AND ROUTINE CARE OF PLANT MATERIAL LOCATED WITHIN THE RIGHTS-OF-WAY SHALL BE
- THE RESPONSIBILITY OF THE ADJACENT PROPERTY OWNERS.

 FOR PURPOSES OF THIS SECTION, MAINTENANCE AND CARE SHALL INCLUDE BUT NOT BE LIMITED TO PRUNING,
- WATERING, FERTILIZING, AND MULCHING, OR ANY ITEM THAT WOULD CONSTITUTE A SAFETY HAZARD TO PEDESTRIAN OR VEHICULAR TRAFFIC.
- 4. IRRIGATION SYSTEMS SHALL NOT BE INSTALLED IN THE CITY OWNED RIGHT-OF-WAY WITHOUT APPROVAL BY THE BOARD OF PUBLIC WORKS. THE CITY DOES NOT ASSUME RESPONSIBILITY FOR ANY DAMAGE INCURRED TO AN UNPERMITTED IRRIGATION SYSTEM THAT IS CAUSED BY WORK BEING PERFORMED IN THESE AREAS.
- 5. IT SHALL BE THE RESPONSIBILITY OF THE OWNERS AND THEIR AGENTS TO INSURE PROPER MAINTENANCE OF ALL TREES, SHRUBBERY AND OTHER LANDSCAPING APPROVED AS PART OF THE DEVELOPMENT PLAN/ADLS PLANS. THIS SHOULD CONSIST OF WATERING, FERTILIZING, PROPER MULCHING, CLEARING OF DEBRIS AND WEEDS, MONITORING FOR PESTS AND DISEASE, MOWING, PRUNING, THE REMOVAL AND TIMELY REPLACEMENT OF DEAD, HAZARDOUS OR DYING PLANTS, TREATING FOR DISEASE OR INJURY, OR ANY OTHER SIMILAR ACT(S) WHICH PROMOTES GROWTH, HEALTH, BEAUTY AND THE LIFE OF TREES, SHRUBS, TURF AND OTHER PLANTS.

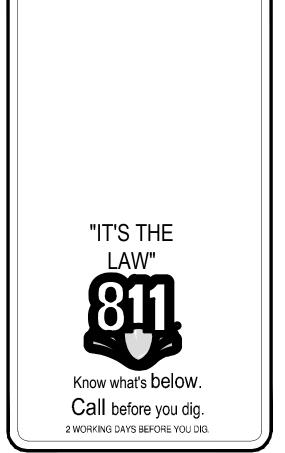
PLANT MA	PLANT MATERIAL CALCULATIONS TABLE					
ZONING CLASSIFICATION, CITY OF FRANKLIN	SITE IS ZONED MX	С				
	REQUIRED	PROVIDED				
U.S. 31 OVERLAY ZONE	2' WIDE PLANTING STRIPS ALONG SIDEWALK, PLANTINGS OF TREES/SHRUBS 50% OF LENGTH	TURF AREA, 1 CANOPY TREE PER 35' O.C.				
BUFFER YARDS	WEST - EXISTING SCREEN CONIFER SCREEN SOUTHEAST- 1 DECIDUOUS TREE OR 2 CONIFERS PER 25'	EXISTING CONIFER SCREEN AND 5 CANOPY TREES PER 25' O.C.				
BUILDING FOUNDATION	GRASSES, PERENNIALS, SHRUBS	GRASSES, PERENNIALS SHRUBS				
PARKING LOT INTERIOR	5% OF PARKING, LOADING, DRIVE SHALL BE ISLANDS, 1 TREE PER 300 SF ~140,000 SF PAVEMENT=7,000 LANDSCAPE AREA REQUIRED	~9,000 SF ISLAND AREA AND 23 TREES PROVIDED				
PARKING LOT PERIMETER	10' WIDE STRIP ADJACENT TO R/W 1 TREE PER 80 LF 1 SHRUB REQUIRED PER TREE EAST PERIMETER=411 LF SOUTH PERIMETER=277 LF	EAST PERIMETER= 5 TREES, 5 SHRUBS SOUTH PERIMETER= 4 TREES, 4 SHRUBS				
SITE INTERIOR	1 TREE PER 1,500 SF OF YARD AREA YARD AREA=16,355 SF	11 TREES ON SITE				
DUMPSTER SCREENING	6' HIGH OPAQUE SCREEN	VEGETATIVE AND ARCHITECTURAL SCREEN				
MONUMENT SIGN	GRASSES, PERENNIALS, SHRUBS	GRASSES, PERENNIALS SHRUBS				





REVISIONS AND ISSUES	DATE	BY
	1	

GENERAL NOTES / LEGEND:



HUBLER FORD DEALERSHIP

PROJECT LOCATION:

2140 N MORTON ST.

FRANKLIN, INDIANA 46131

JOHNSON COUNTY

SECTION, TOWNSHIP, RANGE:

NE \(\frac{1}{4} \), S10, T12N, R4E

BDH REALTY

8220 SOUTH US 31

INDIANAPOLIS, INDIANA 46227

PLAN DATE: 8/11/2021

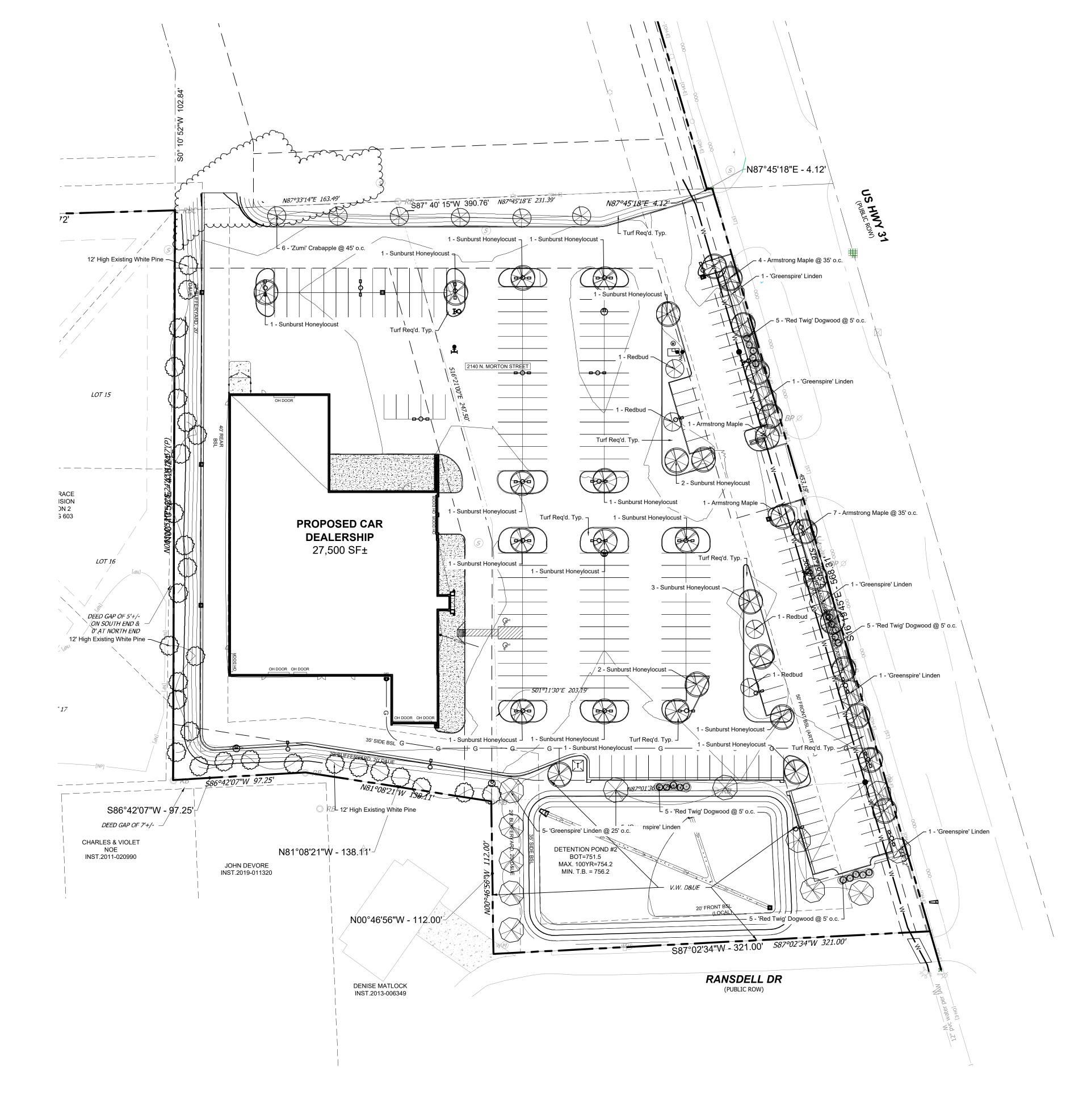
PROJECT NO. 2006003

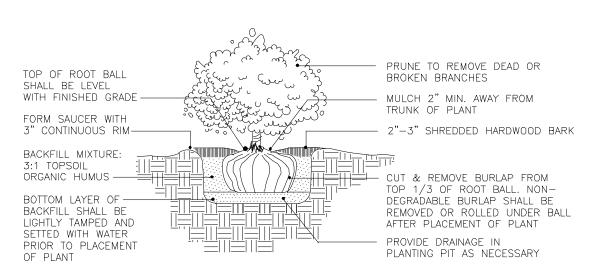
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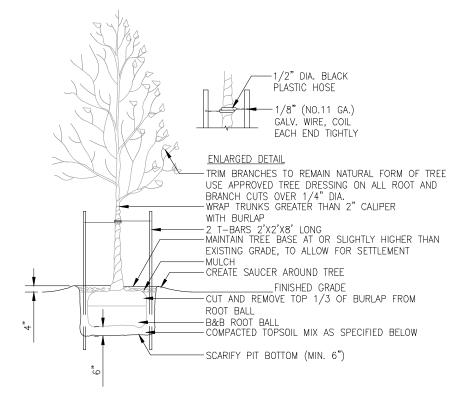
LANDSCAPE PLAN

L101

AF







SPECIFICATIONS:

1. TOPSOIL MIX. TOP 6 INCHES OF SOIL TO BE A 50/50 MIX OF NATIVE SOIL AND GENERAL PLANTING MIX.

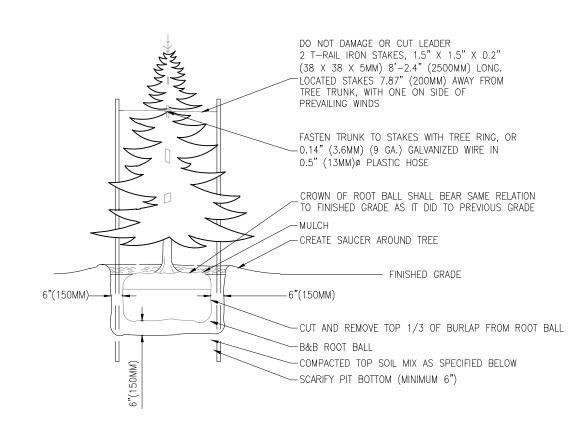
2. DO NOT DAMAGE MAIN ROOTS OR DESTROY ROOT BALL WHEN INSTALLING TREE STAKE.

3. WATER THOROUGHLY AFTER INSTALLATION.

4. REMOVE THEE RINGS AND STAKES TWO YEARS AFTER INSTALLATION.

4. REMOVE TREE RINGS AND STAKES TWO YEARS AFTER INSTALLATION.
5. PROVIDE DRAINAGE FOR PLANTING PIT IN IMPERMEABLE SOIL.
6. ALL TREES MUST BE TAGGED AND APPROVED BY CONSULTANT WITHIN 14 DAYS AFTER TENDER CLOSING.

TREE PLANTING DETAIL



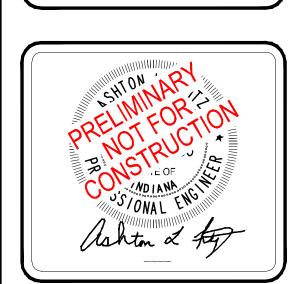
SPECIFICATIONS:

1. DO NOT DAMAGE MAIN ROOTS OR DESTROY ROOT BALL WHEN INSTALLING TREE STAKE.

2. WATER THOROLICALLY AFTER INSTALLATION

2. WATER THOROUGHLY AFTER INSTALLATION.
3. REMOVE TREE RINGS AND STAKES TWO YEARS AFTER INSTALLATIONS
4. PROVIDED DRAINAGE FOR PLANTING PIT IN IMPERMEABLE SOIL.
5. TOPSOIL MIX, TOP 6" OF SOIL TO BE A 50/50 MIX OF NATIVE SOIL AND GENERAL PLANTING MIX.

CONIFEROUS TREE PLANTING DETAIL



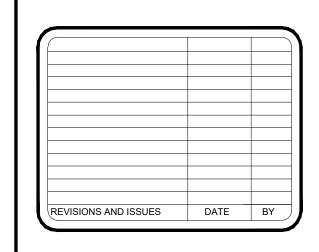
Fritz Engineering

Services, LLC

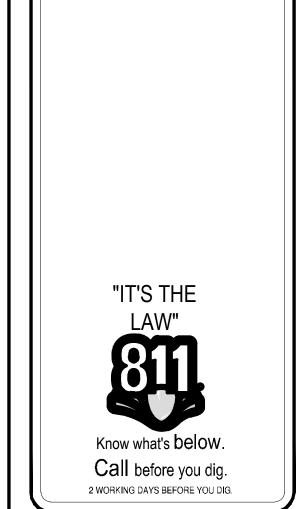
14020 Mississinewa Drive Carmel, Indiana 46033

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GENERAL NOTES / LEGEND:



HUBLER FORD DEALERSHIP

PROJECT LOCATION:

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FRANKLIN, INDIANA 46131

JOHNSON COUNTY

SECTION, TOWNSHIP, RANGE:

NE \(\frac{1}{4}, \) S10, T12N, R4E

BDH REALTY

8220 SOUTH US 31 INDIANAPOLIS, INDIANA 46227

TEM BATE.		
DESIGN:	CHECK:	DRAWN:
AF	AF	K
PROJECT NO.		
	2006002	

2006003 NAME

LANDSCAPE DETAILS

L102

NOTE: ALL PLANT MATERIAL TO MATCH THE CURRENT CITY OF FRANKLIN PLANT MATERIAL LIST

SHRUB PLANTING DETAIL

Quantity	Botanical Name	Common Name	Condition	Size	Comments
Canopy T	rees				·
21	Gleditsia triacanthos 'Sunburst'	Sunburst Honeylocust	B&B	2.5" Cal.	For spacing see plan
15	Tilia cordata 'Greenspire'	Greenspire' Linden	B&B	2.5" Cal.	For spacing see plan
13	A cer rubrum 'A rmstrong'	Armstrong Maple	B&B	2.5" Cal.	For spacing see plan
Ornamen	tal Trees				
4	Cercis canadensis	Redbud	B&B	2.5" Single	For spacing see plan
6	Malus Zumi	Zumi Crabapple	B&B	2.5" Cal.	For spacing see plan
Deciduous	Shrub				
15	Cornus alba	Red Twig Dogwood	Cont.	24"	For spacing see plan