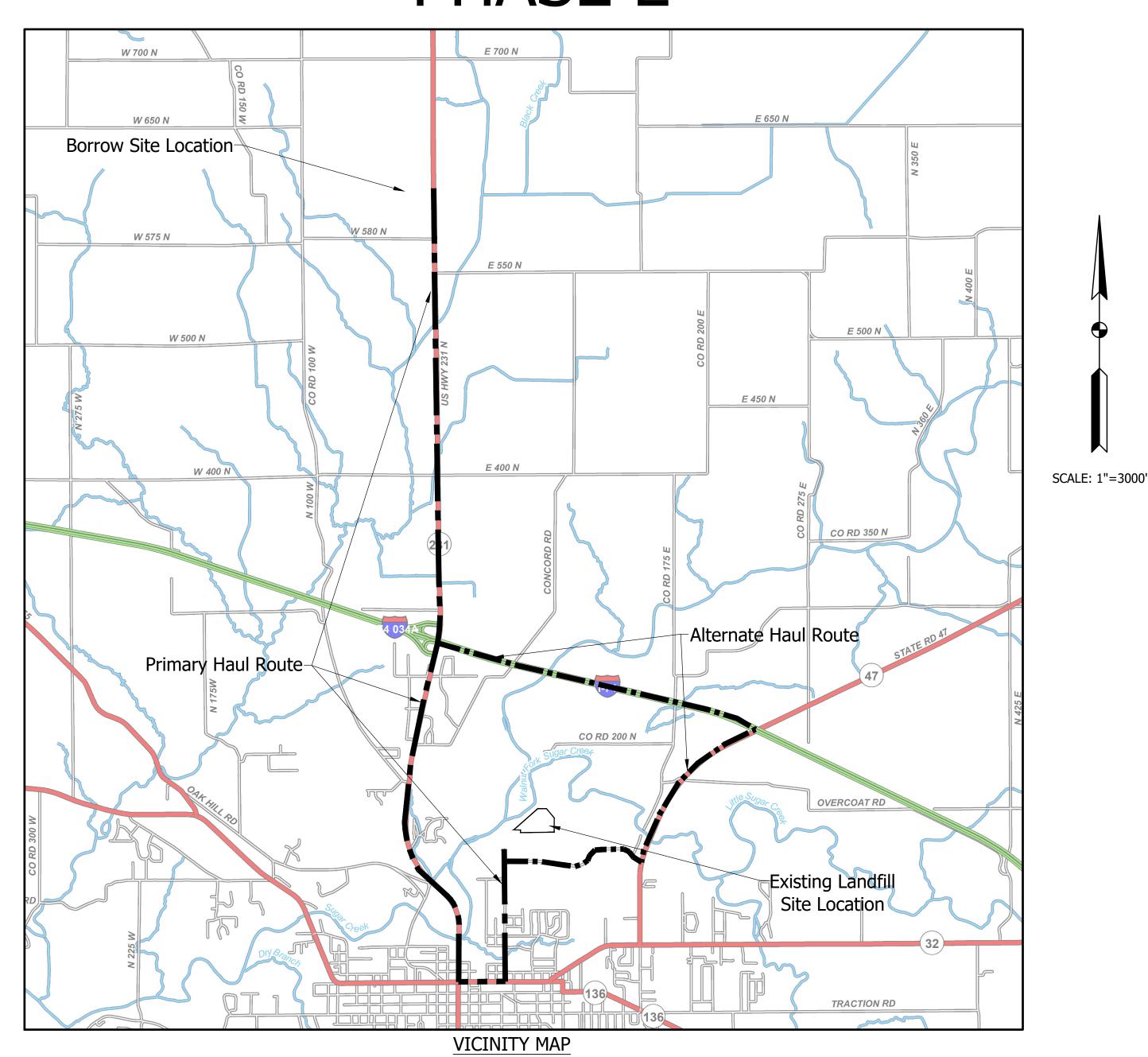
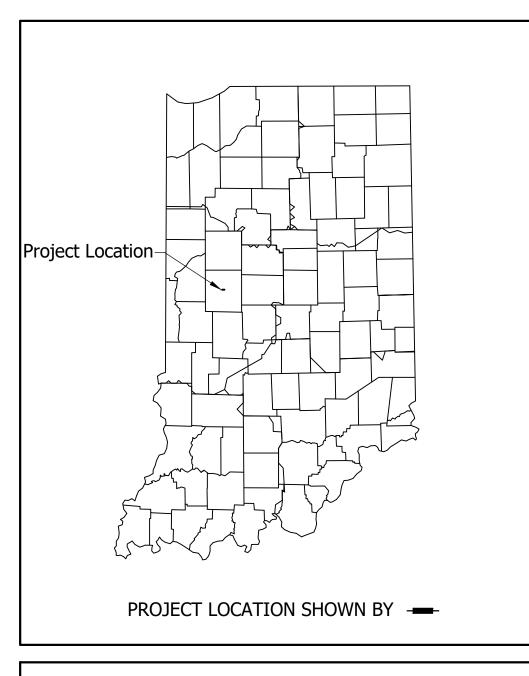
CITY OF CRAWFORDSVILLE, INDIANA MONTGOMERY COUNTY, INDIANA

LANDFILL GRADING IMPROVEMENTS PHASE 2



MONTGOMERY COUNTY



Approx. 40°03'30" N. Lat. & 86°53'30" W. Long.

	INDEX
SHEET NO.	DESIGNATION
1	TITLE SHEET
2	EXISTING LANDFILL SITE - EXISTING PLAN
3	STORMWATER POLLUTION PREVENTION SHEET
4 - 5	STORMWATER POLLUTION PREVENTION PLAN
6	EXISTING LANDFILL SITE - PROPOSED PLAN
7	EXISTING LANDFILL SITE - PROPOSED FILL AREA No. 1
8	EXISTING LANDFILL SITE - PROPOSED FILL AREA No. 2
9	EXISTING LANDFILL SITE - PROPOSED FILL AREA No. 3
10	EXISTING LANDFILL SITE - PROPOSED FILL AREA No. 4
11 - 12	DETAIL SHEET

INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2024 TO BE USED WITH THESE PLANS.

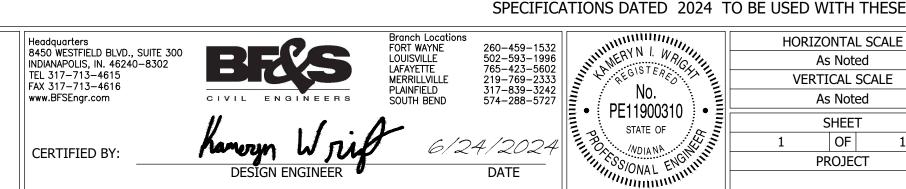
CAUTION

LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

Know what's below.

Call before you dig.

<u>UTILITIES</u>



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No. No.		DESIGN	ENGINEER	DATE							As Noted		
PE11900310 STATE OF WOJANA WOJANA	DESIGNED:	G. Nulliner	_ DRAWN:	G. Nulliner	Headquarters: 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240-8302	BE	25	Branch Locations: COLUMBUS, OH ELKHART, IN FORT WAYNE, IN	800-553-0863 800-553-0863 260-459-1532	2	SHEET	12	
SONAL ENGINEER	CHECKED:	K. Wright	_ CHECKED:	K. Wright	TEL 317-713-4615 FAX 317-713-4616 www.BFSEngr.com	CIVIL ENG	INEERS	JEFFERSONVILLE, IN LAFAYETTE, IN MERRILLVILLE, IN PLAINFIELD, IN	502-593-1996 765-423-5602 219-769-2333 317-839-3242		PROJECT		BFS NC

PE11900310

STATE OF

G. Nulliner

K. Wright

CHECKED:

8450 WESTFIELD BLVD., SUITE 300

INDIANAPOLIS, IN. 46240-8302 TEL 317-713-4615

FAX 317-713-4616

www.BFSEngr.com

G. Nulliner

K. Wright

DESIGNED:

CHECKED:

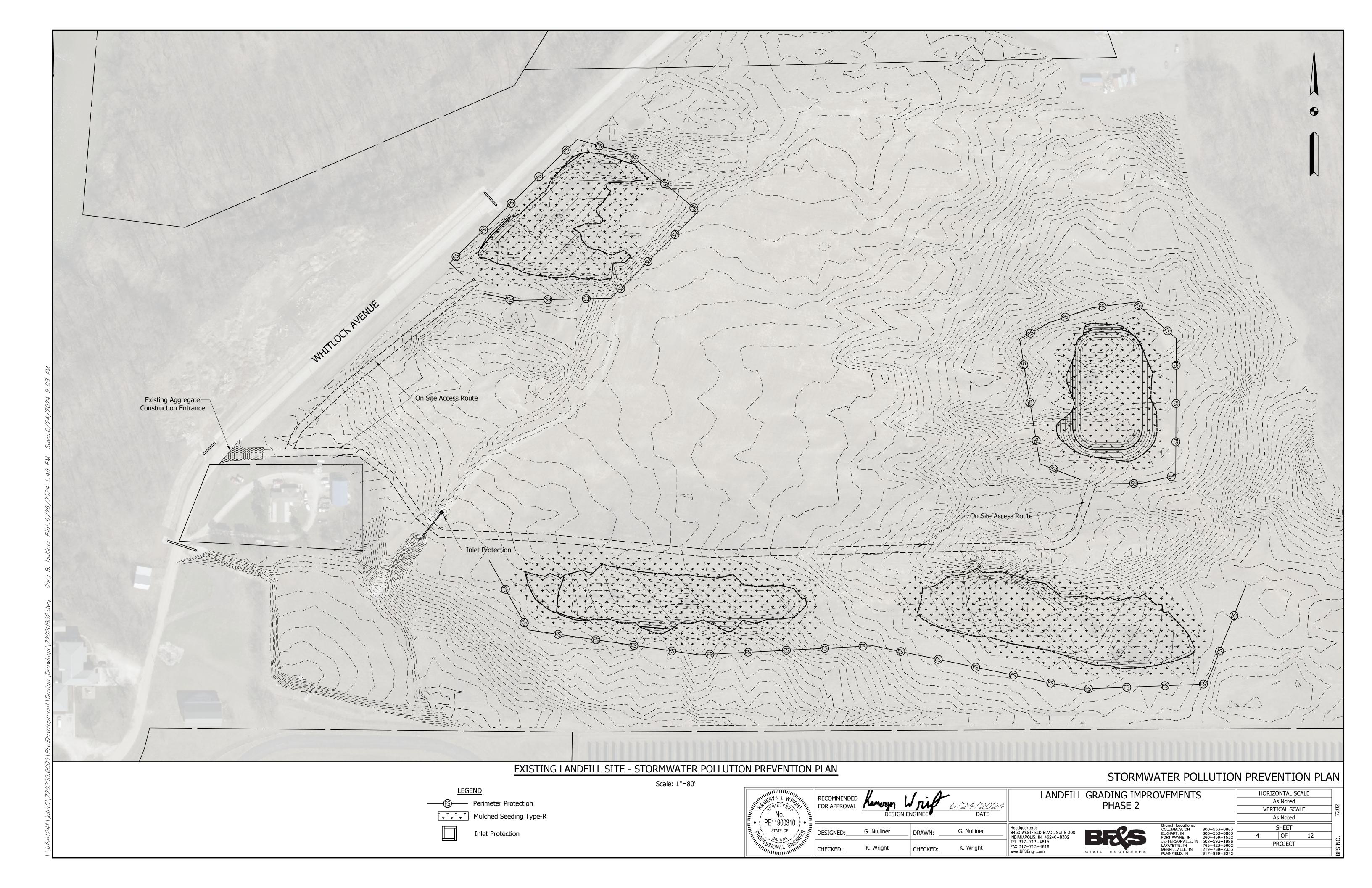
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OF

PROJECT

12

COLUMBUS, OH ELKHART, IN FORT WAYNE, IN





STORMWATER POLLUTION PREVENTION PLAN

Perimeter Protection

Mulched Seeding Type-R

Inlet Protection

No. PE11900310	RECOMMENDED FOR APPROVAL:	harvyn DESI
STATE OF OF	DESIGNED:	G. Nulliner
STATE OF MOIANA WORKS	CHECKED:	K. Wright

11111111	RECOMMENDED FOR APPROVAL:	harryn h DESIGN EI	Sif	6/24/2024 DATE	
111111111111111111111111111111111111111	DESIGNED:	G. Nulliner	DRAWN:	G. Nulliner	He 84 INI

_ CHECKED: K. Wright

LANDFILL GRADING IMPROVEMENTS
PHASE 2

Headquarters:
8450 WESTFIELD BLVD., SUITE 300
INDIANAPOLIS, IN. 46240-8302
TEL 317-713-4615
FAX 317-713-4616
www.BFSEngr.com

CIVIL ENGINEERS

Branch Locations:
COLUMBUS, OH
ELKHART, IN
800FORT WAYNE, IN
260JEFFERSONVILLE, IN
765MERRILLVILLE, IN
219PLAINFIELD, IN
317-

VERTICAL SCALE

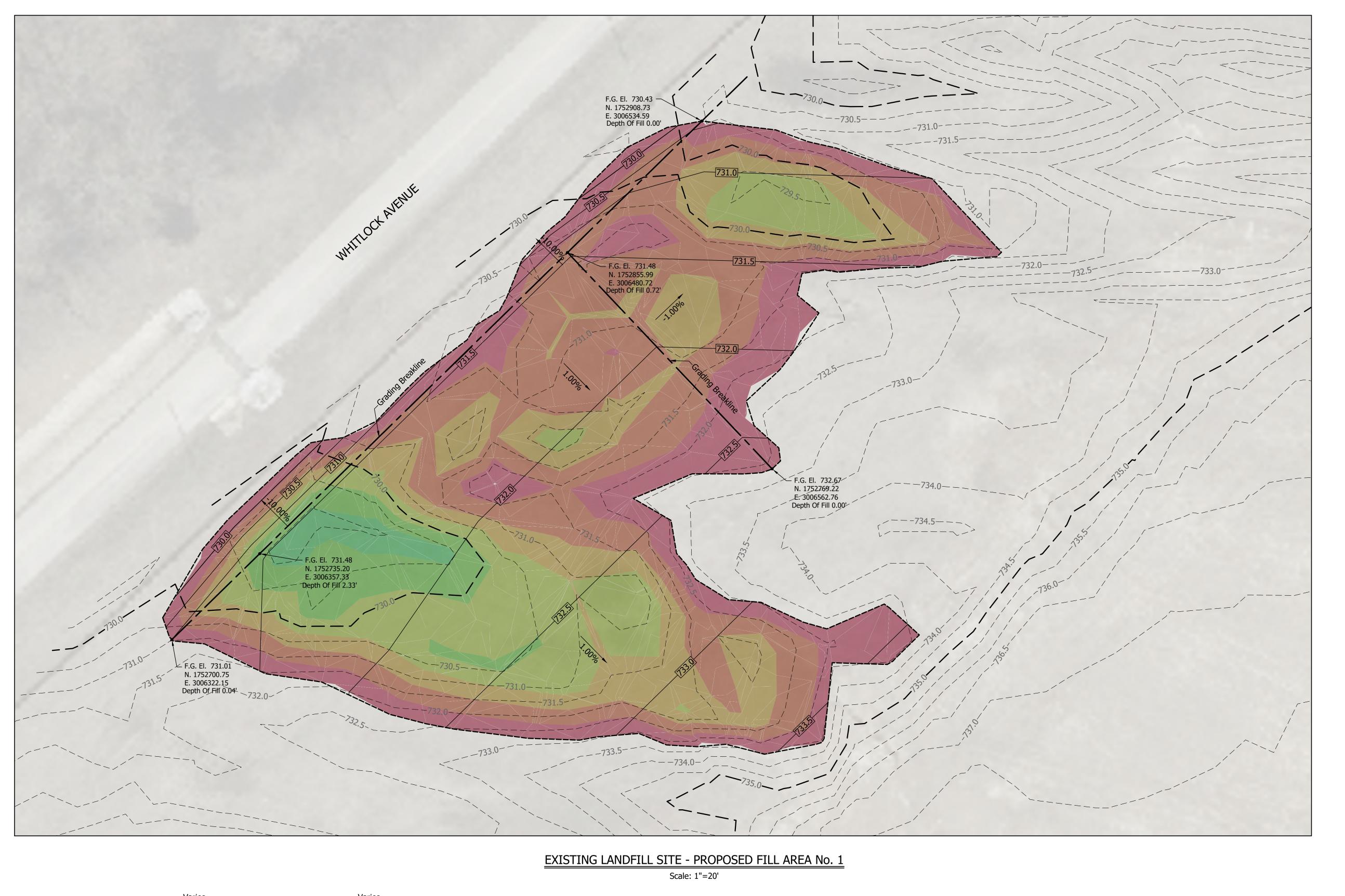
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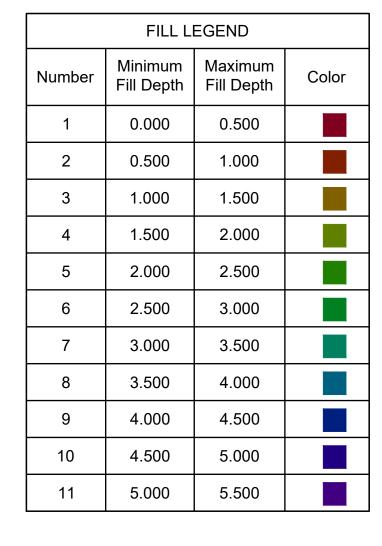
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RT WAYNE, IN
260-459-1532
FFERSONVILLE, IN
765-423-5602
RRILLVILE, IN
219-769-2333
ANFIELD, IN
317-839-3242

HORIZONTAL SCALE

As Noted

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	TA SEGISTERES TO THE	FOR APPROVAL:		N SUP	6/24/2024		PHASE 2			VEI	RTICAL SCALE	Ē	202
11111111111111111111111111111111111111			DESIGN I	ENGINEER	DATE						As Noted		
		DESIGNED:	G. Nulliner	DRAWN: _	G. Nulliner	Headquarters: 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240–8302	RECS	Branch Locations: COLUMBUS, OH ELKHART, IN FORT WAYNE, IN	800-553-0863 800-553-0863 260-459-1532	6	SHEET	12	
	STATE OF MOIANA MOINTING SONAL ENGINEERING	CHECKED:	K. Wright	CHECKED:_	K. Wright	TEL 317-713-4615 FAX 317-713-4616 www.BFSEngr.com	CIVIL ENGINEERS	JEFFERSONVILLE, IN LAFAYETTE, IN MERRILLVILLE, IN PLAINFIELD, IN	502-593-1996 765-423-5602 219-769-2333 317-839-3242		PROJECT		BFS NO.





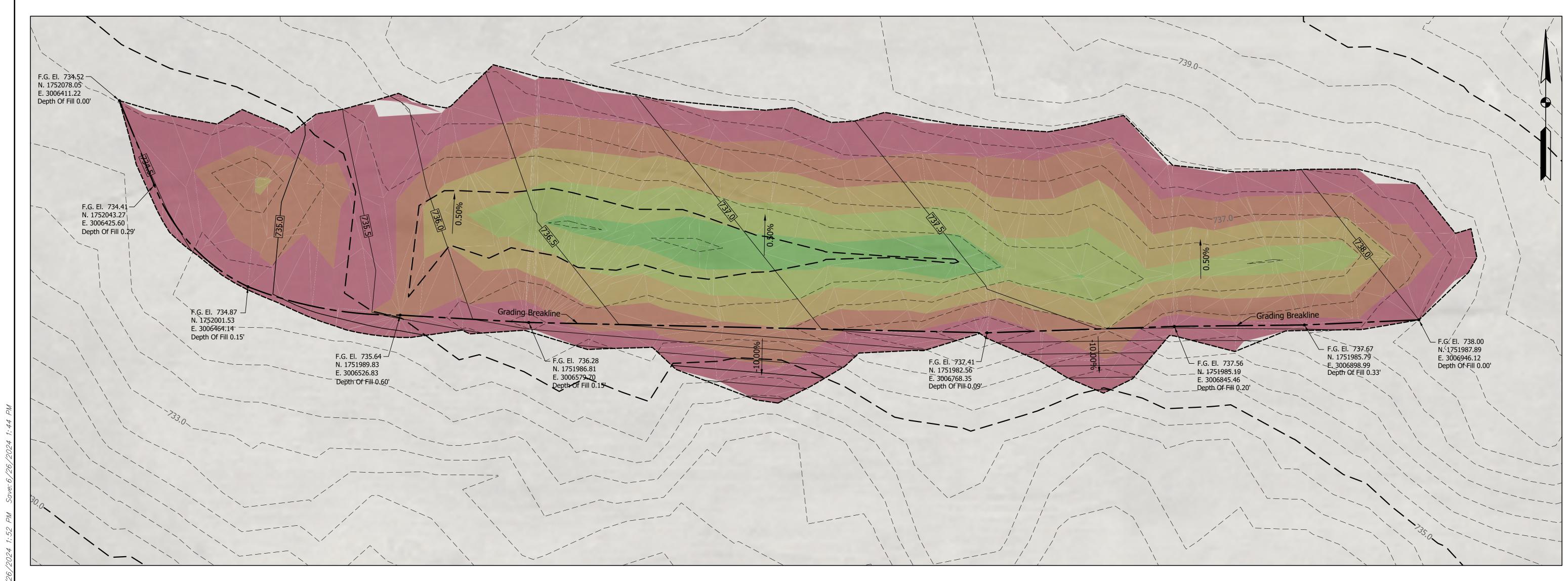
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JEFFERSONVILLE, IN 502-593-1996
LAFAYETTE, IN 765-423-5602
MERRILLVILLE, IN 219-769-2333
PLAINFIELD, IN 317-839-3242

Approximate Surface Aera 0.96 Ac.
Approximate Fill Volume 1,579 Cyd.
Approximmate Top Soil Volume 545 Cyd.

_Min. 4" Top Soil —Grading Breakline Existing Ground— Proposed Fill Limits (As Shown) TYPICAL SECTION - PROPOSED FILL AREA No. 1

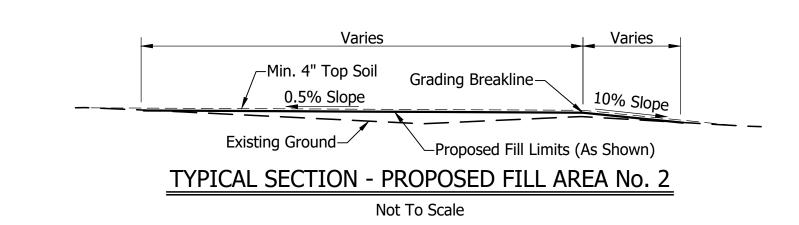
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					<u>EXI</u>	<u>STING LANDFII</u>	<u>LL SITE - PR</u>	ROPOSE	ED FILL ARE	EA No.	_1
THINIMININI WAR	RECOMMENDED FOR APPROVAL:	Kareren 1	Waid	6/24/2024		GRADING IMPRO	OVEMENTS		HORIZONTAL SCALE As Noted		
No. PE11900310 •	DESIGN ENGINEER DATE						VERTICAL SCALE As Noted				
. : : =	DESIGNED:	G. Nulliner	DRAWN:	G. Nulliner	Headquarters: 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240-8302	RECS	ELKHART, IN 800- FORT WAYNE, IN 260-	0-553-0863 0-553-0863 0-459-1532	SHEET 7 OF	12	
STATE OF STA	CHECKED:	K. Wright	CHECKED:	K. Wright	TEL 317-713-4615 FAX 317-713-4616 www.BFSEngr.com	CIVIL ENGINEERS	LAFAYETTE, IN 765- MERRILLVILLE, IN 219-	2-593-1996 5-423-5602 9-769-2333 7-839-3242	PROJECT		BFS NO



EXISTING LANDFILL SITE - PROPOSED FILL AREA No. 2

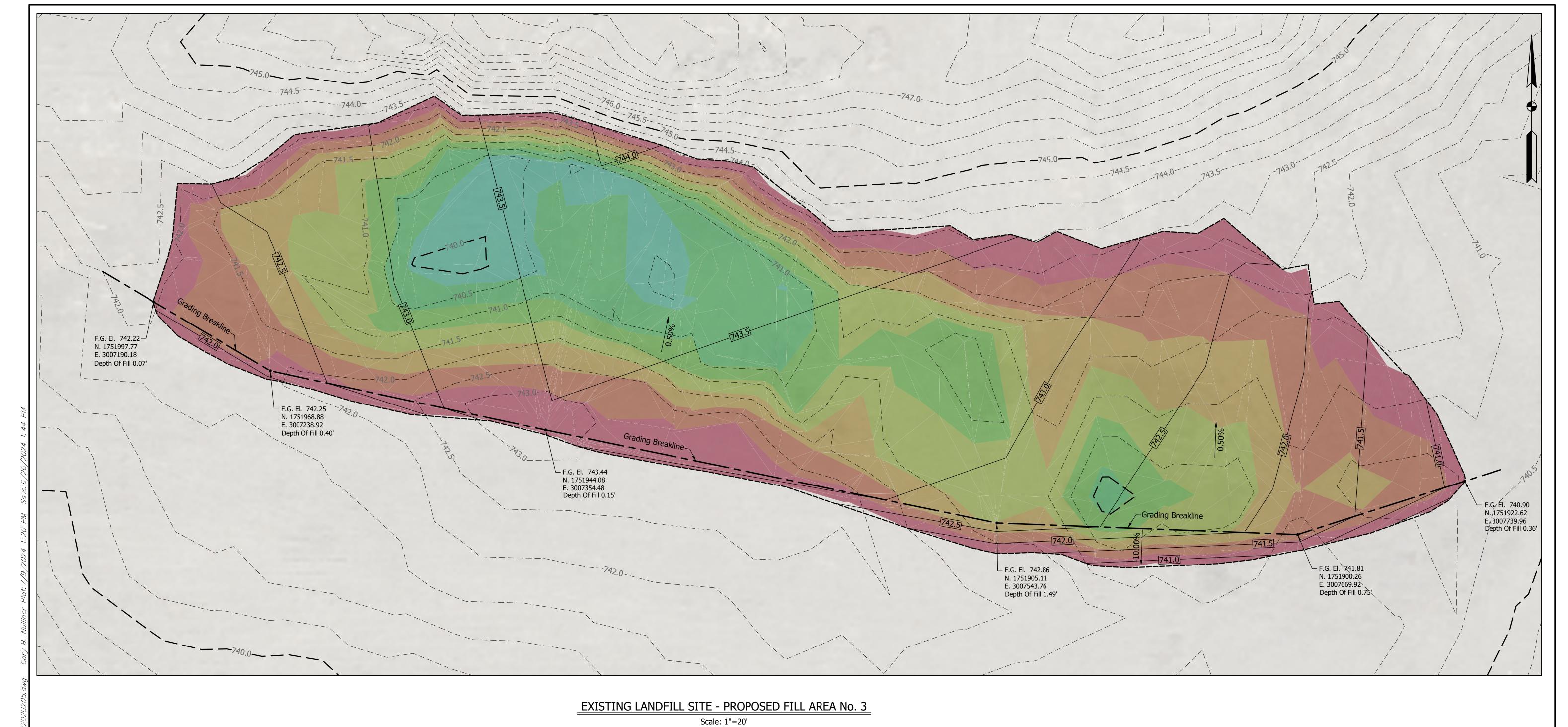
Scale: 1"=20'



FILL LEGEND										
Number	Minimum Fill Depth	Maximum Fill Depth	Color							
1	0.000	0.500								
2	0.500	1.000								
3	1.000	1.500								
4	1.500	2.000								
5	2.000	2.500								
6	2.500	3.000								
7	3.000	3.500								
8	3.500	4.000								
9	4.000	4.500								
10	4.500	5.000								
11	5.000	5.500								

- NOTES
 1. Approximate Surface Aera 1.10 Ac.
 2. Approximate Fill Volume 1,546 Cyd.
 3. Approximate Top Soil Volume 613 Cyd.

HILLIAM I. WAR	RECOMMENDED FOR APPROVAL: RECOMMENDED FOR APPROVAL: LANDFILL GRADING IMPROVEMENTS PHASE 2							HORIZONTAL SCALE As Noted				
No.	TORAL ROVAL		N ENGINEER	DATE		THASE Z			\	/ERTICAL SCA As Noted	LE	7202
	DESIGNED:	G. Nulliner	DRAWN:		Headquarters: 8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240-8302	BECS	Branch Locations: COLUMBUS, OH ELKHART, IN FORT WAYNE, IN	800-553-0863 800-553-0863 260-459-1532	8	SHEET	12	
STATE OF STA	CHECKED:	K. Wright	CHECKED:	K. Wright	TEL 317-713-4615 FAX 317-713-4616 www.BFSEngr.com	CIVIL ENGINEERS	JEFFERSONVILLE, IN LAFAYETTE, IN MERRILLVILLE, IN PLAINFIELD, IN	502-593-1996 765-423-5602 219-769-2333 317-839-3242		PROJECT		BFS NC



FILL LEGEND										
Number	Minimum Fill Depth	Maximum Fill Depth	Color							
1	0.000	0.500								
2	0.500	1.000								
3	1.000	1.500								
4	1.500	2.000								
5	2.000	2.500								
6	2.500	3.000								
7	3.000	3.500								
8	3.500	4.000								
9	4.000	4.500								
10	4.500	5.000								
11	5.000	5.500								

-Min. 4" Top Soil

Existing Ground—

0.5% Slope

TYPICAL SECTION - PROPOSED FILL AREA No. 3

Not To Scale

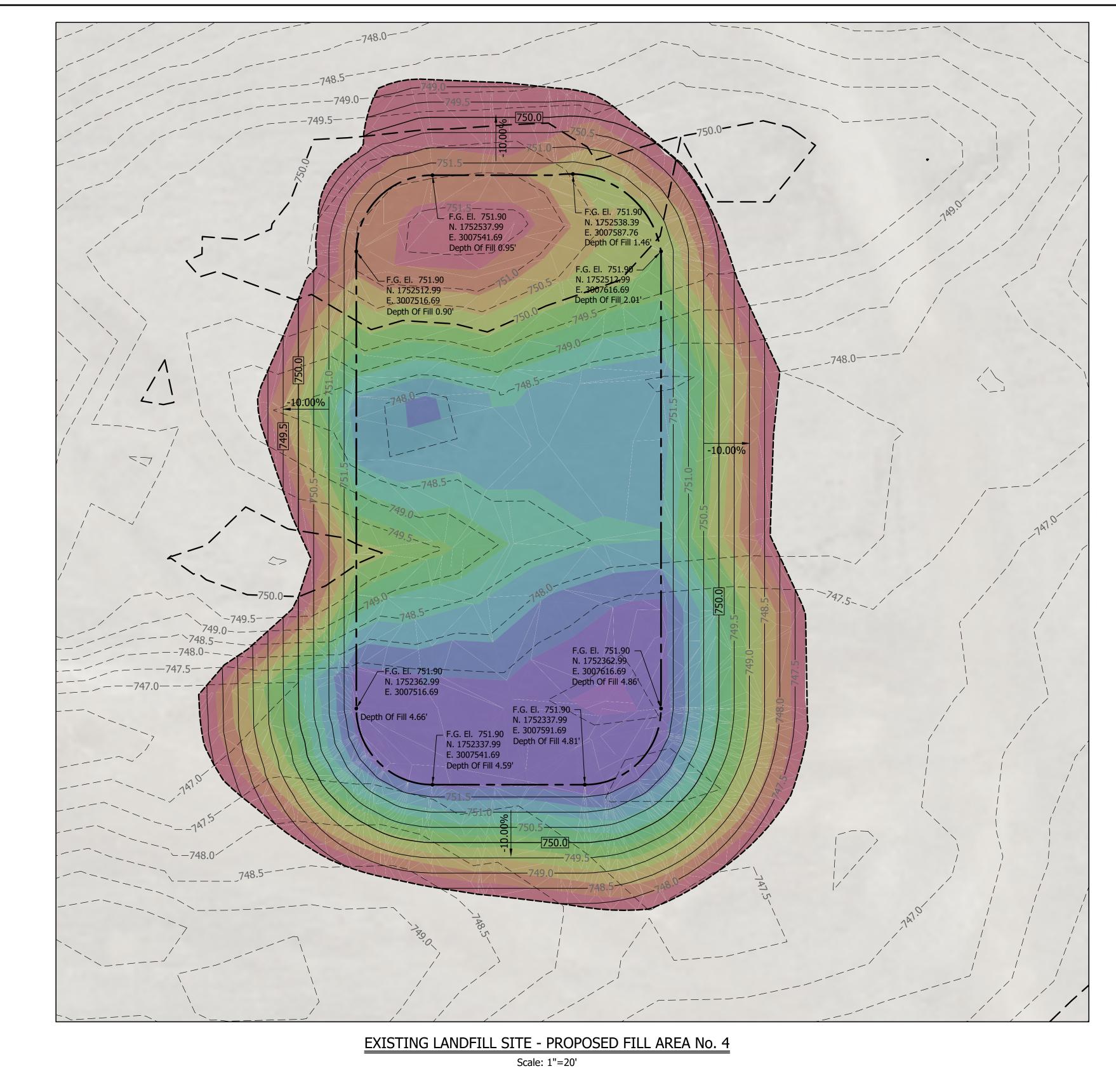
Grading Breakline —

Proposed Fill Limits (As Shown)

- NOTES
 1. Approximate Surface Aera 1.46 Ac.
 2. Approximate Fill Volume 3,430 Cyd.
 3. Approximate Top Soil Volume 800 Cyd.

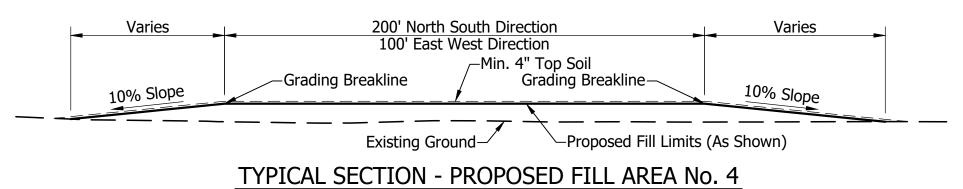
EXISTING LANDFILL SITE - PROPOSED FILL AREA No. 3

	HIMERYN I. WASSILL	RECOMMENDED	//	11.1		LANDFILI	L GRADING IMPR	OVEMENTS	6	HOF	RIZONTAL SC	ALE	$\overline{1}$
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			DEST	GN ENGINEER	DATE					VE	RTICAL SCAL	<u>.</u> E	7202
	E : 5-11000010 : E		DESI	SIV LIVOTIVLLIX	DATE						As Noted		' ' `
- 1	PE11900310 • = STATE OF STATE OF	DESIGNED:	G. Nulliner	DRAWN:	G. Nulliner	Headquarters: 8450 WESTFIELD BLVD., SUITE 300	DECC	Branch Locations: COLUMBUS, OH ELKHART, IN	800-553-0863 800-553-0863	0	SHEET	12	
	WDIANA WONTE					INDIANAPOLIS, IN. 46240-8302 TEL 317-713-4615		FORT WAYNE, IN JEFFERSONVILLE, IN		9	PROJECT	12	⊢ ⊊
	STATE OF WDIANA CHEMINITAL SOLONIAL ENGINEERS	CHECKED:	K. Wright	CHECKED:_	K. Wright	FAX 317-713-4616 www.BFSEngr.com	CIVIL ENGINEERS	LAFAYETTE, IN MERRILLVILLE, IN PLAINFIELD, IN	765-423-5602 219-769-2333 317-839-3242		TROJECT		RF



FILL LEGEND Minimum Maximum Fill Depth Fill Depth 0.000 0.500 0.500 1.000 1.000 1.500 1.500 2.000 2.000 2.500 2.500 3.000 3.000 3.500 3.500 4.000 4.000 4.500 5.000 4.500 10 5.000 5.500

Approximate Surface Aera
 Approximate Fill Volume
 Approximate Top Soil Volumer
 516 Cyd.



Not To Scale

EXISTING LANDFILL SITE - PROPOSED FILL AREA No. 4 No. PE11900310 PE11900310 Headquarters:
8450 WESTFIELD BLVD., SUITE 300
INDIANAPOLIS, IN. 46240-8302
TEL 317-713-4615
FAX 317-713-4616
www.BFSEngr.com G. Nulliner G. Nulliner DESIGNED: K. Wright K. Wright CHECKED: CHECKED:_

LANDFILL GRADING IMPROVEMENTS HORIZONTAL SCALE As Noted PHASE 2 VERTICAL SCALE As Noted Branch Locations:
COLUMBUS, OH 800-553-0863
ELKHART, IN 800-553-0863
FORT WAYNE, IN 260-459-1532
JEFFERSONVILLE, IN 502-593-1996
LAFAYETTE, IN 765-423-5602
MERRILLVILLE, IN 219-769-2333
PLAINFIELD, IN 317-839-3242 SHEET 10 OF PROJECT

Place The Bales Lengthwise In the Trench So The Bindings Are Oriented Around The Sides, Rather Than Top And Bottom.

Allow The Bales To Overlap At The Corners And Abut Them Tightly Against Each Other.

Anchor The Bales With (2) 36 Inch Long 2"x2" Hardwood Stakes Or Rebar.

Tightly Wedge Straw Into Any Gaps Between Bales To Prevent Sediment Laden Water From Flowing Directly Into The Inlet.

Backfill Excavated Soil Material, Four Inches High, Against The Outside Perimeter Of The Straw Bale Barrier And Compact In Place.

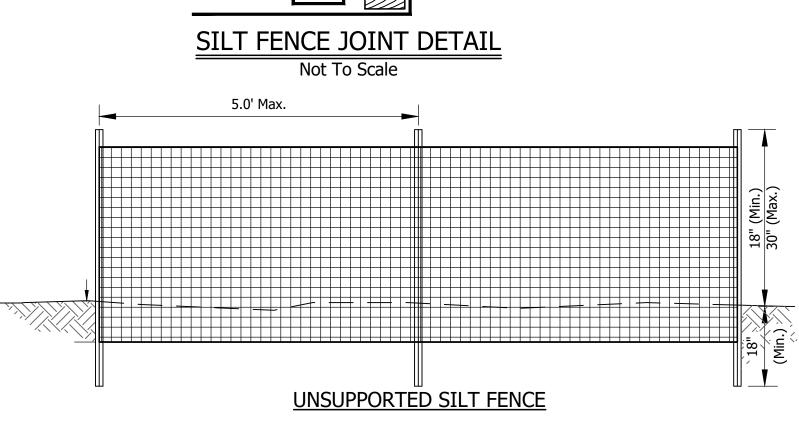
Inspect The Straw Bale Drop Inlet Protection Daily And After Each Storm Event And Make Needed Repairs Immediately.

Remove Sediment And Debris From The Pool Area To Ensure Adequate Runoff Storage For The Next Rain, Taking Care To Not Damage Or Undercut The Bales.

When The Contributing Drainage Area Has Been Stabilized, Remove All Bales, Construction Material And Sediment And Dispose Of Properly. Grade The Disturbed Area To The Elevation Of The Top Of The Inlet And Stabilize.

STRAW BALE DROP INLET PROTECTION

Not To Scale



Installation:

NOTES:

Silt Fence Is Not Recommended For Use As A Diversion And Should Not Be Used Across A Stream, Channel, Ditch, Swale, Or Anywhere That Concentrated Flow Is Anticipated.

Lay Out The Location Of The Fence So That It Is Parallel To The Contour Of The Slope And At Least 10 Feet Beyond The Toe Of The Slope To Provide A Sediment Storage Area. Turn The Ends Of The Fence Up Slope Such That The Point Of Contact Between The Ground And The Bottom Of The Fence End Terminates At A Higher Elevation Than The Top Of The Fence At Its Lowest Point

Lay Out Silt Fence Around Spoil Piles, Ensuring Runoff Will Not Have A Direct Exit By Staggering Endpoints And Hooking Ends.

Along The Entire Fence Line, Dig An 8 Inch Deep Flat Bottomed Or V-Shaped Trench. Place Fence According To Manufacturer's Recommendations.

Inspect The Silt Fence Weekly And After Each Storm Event.

If Fence Fabric Tears, Starts To Decompose, Or In Any Way Becomes Ineffective, Replace The Affected Portion Immediately.

Remove Deposited Sediment When It Reaches Half The Height Of The Fence At Its Lowest Point Or Is Causing The Fabric To Bulge. Take Care To Avoid Undermining The Fence During

After The Contributing Drainage Area Has Been Stabilized, Remove The Fence And Sediment Deposits, Bring The Disturbed Area To Grade, And Stabilize.

> SILT FENCE (SEDIMENT FENCE) Not To Scale

TRENCH DETAIL

SEEDS:

The Following Table Is For General Seeding Information Only. Consult The Indiana Storm Water Quality Manual For Recommendations Relating To Steep Banks And Cuts, High Maintenance Areas, And Channels And Areas Of Concentrated

FERTILIZER:

40 Percent Kentucky Bluegrass Commercial Fertilizer (12-12-12) 40 Percent Creeping Red Fescue

20 Percent Annual Rye Grass

Clean And Free Of Weed Seeds

Spread Fertilizer Uniformly Over Finish Graded Surfaces At A Rate Of 20 Pounds Per 1,000 Square Feet. Thoroughly Disk, Harrow, Or Rake Fertilizer Into Soil To Depth Not Less Than 2 Inches.

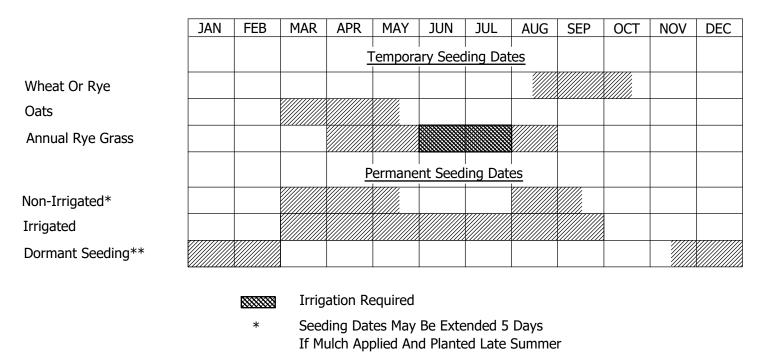
STRAW:

Distribute Seed Mix Same Day As Fertilizer Is Applied. Spread Evenly At A Rate Of 3 Pounds Per 1,000 Square Feet. Rake Lightly And Compact Areas With 100 Pound Roller.

Cover Areas With Straw Evenly Spread At A Rate Of 2 Tons Per Acre Immediately After Seeding. Water Areas With Fine Spray. Do Not Flood Or Create Washes. Protect Seeded Areas From Erosion.

Continue Watering Of These Areas On A Daily Basis For The Remainder Of The Construction Period.

Hold Sloped Areas Steeper Than 2 (Horizontal) To 1 (Vertical) With Wire Mesh Or Stakes And Wire.

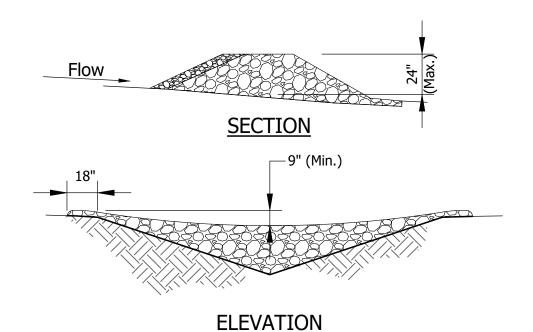


** Increase Seeding Rate By 50%

NOTES:

If Construction Activities Take Place During The Months Of November Through February, Use Dormant Seeding Practices In Place Of Temporary And Permanent Seeding Practices.

See Chapter 7 Of The Indiana Storm Water Quality Manual, For Additional Seeding Recommendations.



NOTES:

Excavate A Cutoff Trench Into The Swale Banks And Extend It A Minimum Of 18 Inches Beyond The Top Of Bank. Place The Rock In The Cutoff Trench And Channel to The Limits And Dimensions Shown.

Extend The Rock At Least 18 Inches Beyond The Top Of Bank To Keep Overflow Water From Undercutting The Dam As It Re-Enters The Channel.

Space Dams So That The Upstream Dam Toe Elevation And The Overflow Weir Of The Downstream Dam Top Elevation (A 1% Swale Slope Would Equal 200' Spacing)

Stabilize The Channel Above The Uppermost Dam. Erosion Resistant Lining Shall Extend At Least 6" Below Lowest

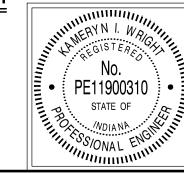
Inspect Check Dams And The Channel After Each Half Inch Storm Event, And Repair Any Damage Immediately. If Significant Erosion Occurs Between Dams, Install A Riprap Liner In That Portion Of The Channel.

Remove Sediment Accumulated Behind Each Dam Regularly To Maintain Channel Capacity, To Allow Drainage Through The Dam, And To Prevent Large Flows From Displacing Sediment.

Add Aggregate To The Dams As Needed To Maintain Design Height And Cross Section.

When The Dams Are No Longer Needed, Remove The Aggregate And Stabilize Channel Using An Erosion Resistant Lining, If Necessary.





RECOMMENDED G. Nulliner G. Nulliner DESIGNED:

CHECKED:

K. Wright

CHECKED:

8450 WESTFIELD BLVD., SUITE 300 INDIANAPOLIS, IN. 46240-8302 TEL 317-713-4615

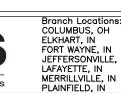
FAX 317-713-4616

www.BFSEngr.com

K. Wright

LANDFILL GRADING IMPROVEMENTS PHASE 2





As Noted VERTICAL SCALE As Noted SHEET OF 12 PROJECT

NOTES:

Avoid Locating On Steep Slopes Or At Curves In Public Roads.

Remove All Vegetation And Other Objectionable Material From The Foundation Area, And Grade The Foundation And Crown For Positive

If Longitudinal Slope Is In Excess Of 2%, Construct A Water Bar (Ridge) About 15 Feet From The Entrance To Divert Runoff Away Form

Install Pipe Under The Pad (If Needed) To Maintain Proper Public Road Drainage.

If Wet Conditions Are Anticipated, Place Geotextile Fabric On The Graded Foundation To Improve Stability.

Place Aggregate To Dimensions And Grade Shown On The Erosion Control Plan, Leaving The Surface Smooth And Sloped For Drainage.

Divert All Surface Runoff And Drainage From The Stone Pad To A Sediment Trap Or Basin.

<u>Maintenance:</u>
Inspect Daily And After Each Storm Event Or Heavy Use.

Reshape Pad And Topdress As Needed For Drainage And Runoff Control. Immediately Remove Mud And Sediment Tracked Or Washed Onto Public Roads By Brushing Or Sweeping. Flushing Should Only Be Used If The Water Is Conveyed Into A Sediment Trap Or Basin.

> TEMPORARY GRAVEL CONSTRUCTION ENTRANCE Not To Scale

> > **DETAIL SHEET**

HORIZONTAL SCALE

Undisturbed Area

Undisturbed Area

Filter Sock Should Maintain Solid Contact With The Soil And Be Installed In A Manner That Minimizes Gaps Between The Bottom Of The Sock And The Underlying Substrate.

Filter Socks Should Be Installed Parallel To The Contour With Both Ends Of The Sock Extended Upslope At A 45 Degree Angle To The Rest Of The Sock.

Socks Placed On Earthen Slopes Should Be Staked In The Center Of The Sock Or Immediately Downslope Of The Sock At The Interval Recommended By The Manufacturer. Socks Installed On Paved Surfaces Shall Have Concrete Blocks Placed Immediately Downslope Of The Sock At An Interval Recommended By The Manufacturer.

NOTES:

Traffic Shall Not Be Permitted To Cross Filter Socks.

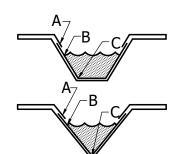
Inspect The Structure Weekly And After Each Rainfall Event. Damaged Socks Shall Be Repaired According To The Manufacturer's Specifications Or Replaced Within 24 Hours Of Inspection.

Remove Deposited Sediment When It Reaches Half The Height Of The Filter Sock At Its Lowest Point.

Take Care To Avoid Undermining The Filter Sock During Clean Out.

After The Contributing Drainage Area Has Been Stabilized, Remove And Properly Dispose Of Any Unstable Sediment And Construction Material, And Stabilize.





Critical Points A. Overlaps And Seams B. Projected Water Line C. Channel Bottom/Side Slope Vertices

- 1. Prepare Soil Before Installing Blankets, Including Any Necessary Application Of Lime, Fertilizer, Or Seed.
- 2. Begin At The Top Of The Channel By Anchoring The Blanket In A 6 Inch Deep By 6 Inch Wide Trench With Approximately 12 Inches Of Blanket Extended Beyond The Upslope Portion Of The Trench. Anchor The Blanket With A Row Of Staples/Stakes Approximately 12 Inches Apart In The Bottom Of The Trench. Backfill And Compact The Trench After Stapling. Apply Seed To Compacted Soil And Fold Remaining 12 Inch Portion Of Blanket Back Over Seed And Compacted Soil. Secure Blanket Over Compacted Soil With A Row Of Staples/Stakes Spaced Approximately 12 Inches Apart Across The Width Of The Blanket.
- 3. Roll Center Blanket In Direction Of Water Flow In Bottom Of Channel. Blankets Will Unroll With Appropriate Side Against The Soil Surface. All Blankets Must Be Securely Fastened To Soil Surface By Placing Staples/Stakes In Appropriate Locations As Shown In The Staple Pattern Guide. When Using Optional Dot System, Staples/Stakes Should Be Placed Through Each Of The Colored Dots Corresponding To The Appropriate Staple Pattern.
- Place Consecutive Blankets End Over End (Shingle Style) With A 4-6 Inch Overlap. Use A Double Row Of Staples Staggered 4 Inches Apart And 4 Inches On Center To Secure Blankets.

Prepare Soil Before Installing Blankets, Including Any Necessary Application Of Lime, Fertilizer, And Seed.

Through Overlapped Area, Approximately 12 Inches Apart Across Entire Blanket Width.

Overlap The Blankets With The Direction Of The Flow Of The Water

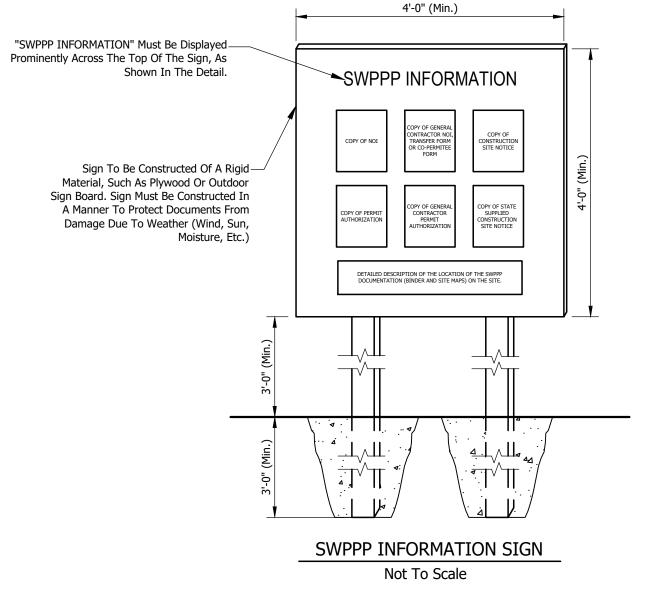
- 5. Full Length Edge Of Blankets At Top Of Side Slopes Must Be Anchored With A Row Of Staples/Stakes Approximately 12 Inches Apart In A 6 Inch Deep By 6 Inch Wide Trench. Backfill And Compact The Trench After Stapling.
- Adjacent Blankets Must Be Overlapped Approximately 2-5 Inches, (Depending On Blanket Type) And Stapled. To Ensure Proper Seam Alignment, Place The Edge Of The Overlapping Blanket (Blanket Being Installed On Top) Even With The Colored Seam Stitch On The Blanket Being Overlapped.
- In High Flow Channel Applications, A Staple Check Slot Is Recommended At 30-40 Foot Intervals. Use A Double Row Of Staples Staggered 4 Inches Apart And 4 Inches On Center Over Entire Width Of The Channel.
- The Terminal End Of The Blankets Must Be Anchored With A Row Of Staples/Stakes Approximately 12 Inches Apart In A 6 Inch Deep By 6 Inch Wide Trench. Backfill And Compact The Trench After Stapling.

EROSION CONTROL BLANKET - FLOWLINE APPLICATION

Not To Scale

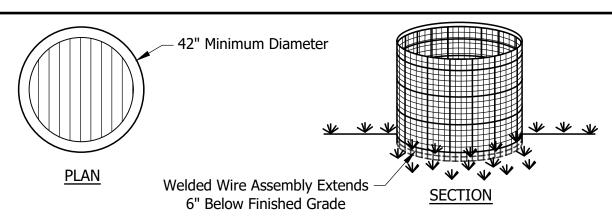
* Horizontal Staple Spacing Should Be Altered If Necessary To Allow Staples To Secure The Critical Points Along The Channel Surface.

** In Loose Soil Conditions, The Use Of Staple Or Stake Lengths Greater Than 6 Inches May Be Necessary To Properly Anchor The Blankets.



- 1.) The SWPPP Information Sign Must Be Located Near The Construction Entrance Of This Site, Such That It Is Accessible And Viewable By The General Public, But Not Obstructing Views As To Cause A Safety Hazard.
- 2.) All Posted Documents Must Be Maintained In A Clearly Readable Condition At All Times Throughout Construction And Until The Notice-Of-Termination (NOT) Is Filed For The Permit.
- 3.) Contractor Shall Post Other Storm Water And/Or Erosion And Sediment Control Related Permits On The Sign As Required.
- 4.) Sign Shall Be Located Outside Of Public Right-Of-Way And Easements Unless Approved By The Plainfield MS4 Operator.

__ 1'-6" (Min.)



NOTES:

6" x 6" Welded Wire Mesh Shall Be Formed Of 10Ga. Steel Conforming To ASTM A-185.

Geotextile Shall Be Wrapped Three Inches Over The Top Member Of The 6" x 6" Welded Wire Mesh And Shall Be Secured With Fastening Rings Through Both Geotextile Layers And Close Around A Steel Member At Six Inches On Center. Fastening Rings Shall Be Constructed Of Wire Conforming To ASTM A-641, A-809, A-370, And A-938.

Geotextile Shall Be Secured To The Sides Of Welded Wire Mesh With Fastening Rings At A Spacing Of One Per Square Foot Except For The Bottom 2-Inches Which Shall Extend Past The Welded Wire And Be Left Unsecured For Entrenchment.

Welded Wire Assembly Shall Be Formed Into A Minimum 42" Diameter Circle With a 3" Minimum Overlap On The Ends Secured By Wire Or Zip Ties.

Welded Wire Assembly Shall Then Be Placed In A 6" Deep Trench And Backfilled And Compacted Over The Geotextile Flap.

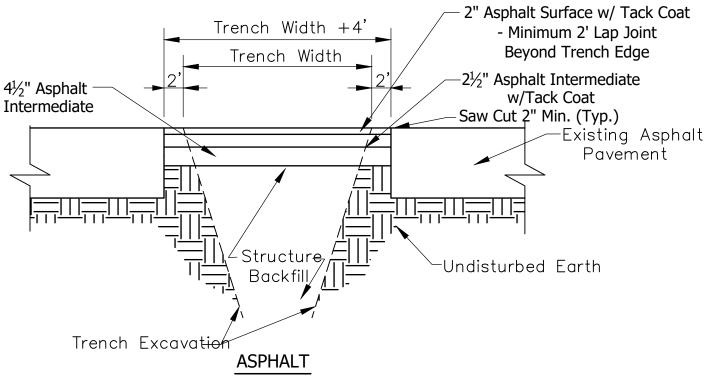
Inspect The Welded Wire Inlet Protector Daily And After Each Rainfall Event.

If Geotextile Tears, Start To Decompose, Or In Any Way Becomes Ineffective, Replace The Affected Portion Immediately.

Remove The Deposited Sediment When It Reaches One Third The Height Of The Structure At Its Lowest Point Or Is Causing The Structure To Shift. Take Care To Avoid Undermining The Structure During Clean Out.

After The Contributing Drainage Area Has Been Stabilized, Remove The Structure And Sediment Deposits, Bring The Disturbed Area To Grade, And Stabilize.

WELDED WIRE INLET PROTECTION Not To Scale



Not To Scale

Intermediate PAVEMENT RECONSTRUCTION DETAILS

Finished Ground; However, Contractor Shall Coordinate Grade To Ensure Proper Pavement Section Or To Allow Placement Of Approved Loam Material To A Depth Of 8" For Seeding Or Sodding.

www.BFSEngr.com

Whenever A Non-Parallel Trench Opening Encroaches Within 5' Of A Proposed Street, Private Drive Or Sidewalk, Granular Backfill If Testing Confirms Compaction, #8 Crushed Stone Or #8 Fractured Face Aggregate Or Flowable Fill Shall Be Used For Trench Backfill. Whenever A Non-Parallel Trench Opening Encroaches Within 5' Of An Existing Street, Flowable Fill Shall Be Used For Trench Backfill.

Coarse Aggregate No. 8 Or Granular Backfill Compacted To 95% Max. Density As Confirmed By Compaction Testing.

RCP PIPE BEDDING DETAIL

(Use Max.)

9" Or 0.3 (O.D.)

Scale: None

LANDFILL GRADING IMPROVEMENTS

DETAIL SHEET

HORIZONTAL SCALE

As Noted

VERTICAL SCALE

As Noted

SHEET

OF

PROJECT

No. E PE11900310 STATE OF **DESIGNED:**

CHECKED:

G. Nulliner

Headquarters: 8450 WESTFIELD BLVD., SUITE 300 G. Nulliner INDIANAPOLIS, IN. 46240-8302 TEL 317-713-4615 FAX 317-713-4616 K. Wright K. Wright CHECKED:

PHASE 2

Branch Locations:
COLUMBUS, OH
ELKHART, IN
FORT WAYNE, IN
260-459-1532
JEFFERSONVILLE, IN
502-593-1996
LAFAYETTE, IN
765-423-5602

Installed Blanket.

Inches Apart Across The Width Of The Blanket.

In Loose Soil Conditions, The Use Of Staple Or Stake Lengths Greater Than 6 Inches May Be Necessary To Properly Secure The Blankets.

Consecutive Blankets Spliced Down The Slope Must Be Placed End Over End (Shingle Style) With An Approximate 3 Inch Overlap. Staple

Begin At The Top Of The Slope By Anchoring The Blanket In A 6 Inch Deep By 6 Inch Wide Trench With Approximately 12 Inches Of Blanket

Roll The Blankets (A.) Down Or (B.) Horizontally Across The Slope. Blankets Will Unroll With Appropriate Side Against The Soil Surface. All

Blankets Must Be Securely Fastened To Soil Surface By Placing Staples/Stakes In Appropriate Locations As Shown In The Staple Pattern Guide.

The Edges Of Parallel Blankets Must Be Stapled With Approximately 2-5 Inches Overlap Depending On Blanket Type. To Ensure Proper Seam

Alignment, Place The Edge Of The Overlapping Blanket (Blanket Being Installed On Top) Even With The Colored Seam Stitch On The Previously

When Using Optional Dot System, Staples/Stakes Should Be Placed Through Each Of The Colored Dots Corresponding To The Appropriate Staple

Extended Beyond The Upslope Portion Of The Trench. Anchor The Blanket With A Row Of Staples/Stakes Approximately 12 Inches Apart In The Bottom Of The Trench. Backfill And Compact The Trench After Stapling. Apply Seed To Compacted Soil And Fold Remaining 12 Inch Portion Of Blanket Back Over Seed And Compacted Soil. Secure Blanket Over Compacted Soil With A Row Of Staples/Stakes Spaced Approximately 12

EROSION CONTROL BLANKET - SLOPE APPLICATION

Not To Scale

Smooth Foundation -Geotextile² Under Filter

NOTES:

Installation: Excavate Only Deep Enough For Both Filter And Riprap. Compact Any Fill Material To The Density Of The Surrounding Undisturbed Soil.

Cut A Keyway In Stable Material At The Base Of The Slope To Reinforce The Toe. Keyway Depth Should

Times The Design Thickness Of The Riprap, And Should Extend A Horizontal Distance Equal To The Design Thickness.

Place Geotextile Fabric On The Smoothed Foundation, Overlapping The Edges 12 Inches Minimum. Secure With Anchor Pins Spaced Every 3 Feet Along The Overlap.

Immediately After Installing The Filter, Add The Riprap To Full Thickness In One Operation. Do Not Dump Through Chutes Or Use Any Method That Causes Segregation Of Rock Sizes, Or That Will Dislodge Or Damage The Underlying Filter Material.

If Fabric Is Damaged, Remove The Riprap And Repair By Adding Another Layer Of Fabric, Overlapping The Damaged Area By 12 Inches.

Place Smaller Aggregate In Voids To Form A Dense, Uniform, Well Graded Mass. Blend The Riprap Surface Smoothly With The Surrounding Area To Eliminate Protrusions Or Over Falls.

Maintenance:

Inspect Periodically For Displaced Aggregate Material, Slumping And Erosion At Edges, Especially Downstream Or Downslope.

> RIPRAP Not To Scale