

PLAN COMMISSION STAFF REPORT

То:	Members of the Plan Commission
From:	Tom Vander Woude, Planning Director
Meeting Date:	May 10, 2022
Agenda Item:	PC Docket No. 22-004
Hearing:	N/A
Application Type:	SUBDIVISION – FINAL PLAT
Summary:	Community Resources Inc. requesting approval of a final plat for Community Resources, Inc Phase 2
Applicant:	Community Resources, Inc.
Property Address:	Approximately 10200 Old Dyer Rd.
Current Zoning:	CD-3.R1 Neighborhood – 70' Lot One Family Residence Character District
Adjacent Zoning:	North: CD-3.R2 South: CD-3.R2 East: CD-3.R2 West: CD-3.R2
Action Requested:	Approve final plat
Additional Actions Rec	quired: N/A
Attachments:	Community Resources, Inc. Phase Two Final Plat dated 04.21.2022 Community Resources, Inc. Phase Two plans dated 12.21.2021



Figure 1 Subject property highlighted in blue.

BACKGROUND

The Town of Munster approved a preliminary plat for Community Resources, Inc. Phase 2 in October 2021. The approval included the following conditions:

- 1. Sidewalks will be installed along Donna Drive and all retention areas in Phase 1 and Phase 2.
- 2. Sidewalks will be installed along Richard McClaughry Drive to Columbia Avenue.
- 3. Ornamental railings to be approved by the Planning Director will be installed where sidewalks are adjacent to retention areas that do not meet the Town's minimum setback requirements.
- 4. Pine trees will be preserved along Donna Drive.
- 5. Where sidewalks are constructed without parkways, the required parkway trees will be planted in the proposed park or other public land within the subject subdivision.

1005 Ridge Road • Munster, IN 46321 • (219) 836-8810 • Police/Fire Emergencies 911 Police Non-Emergency (219) 836-6600 • Fire Non-Emergency (219) 836-6960 page 2

www.munster.org

- 7. Public access easements with sidewalks will be provided along the north edge of lot 12 and between Donna Drive and Andrew Lane to provide access to the proposed park property.
- 8. All other recommendations of the Community Resources Phase 2 park land recommendation prepared by the Board of Parks and Recreation dated October 5, 2021 will be implemented.
- 9. A drainage report for the subdivision must be approved by the Town Engineer.
- 10. Fencing consistent with the existing fencing will be installed along Columbia Avenue.

Plans dated 12.21.2021 were approved by staff as meeting the conditions and are attached here for reference.

The preliminary plat approval permits the installation of public improvements, but no structures may be constructed on the property until the final plat has been approved and recorded with Lake County.

DISCUSSION

Final plat approval is to be granted by the Plan Commission upon the following:

1. Verification of completion of improvements.

All public improvements that have been completed shall be inspected, determined to be constructed in accordance with Town standards, and accepted by resolution by the Town Council.

- Bond in lieu of completion of improvements.
 If there are any improvements that have not been completed or have not been accepted by the Town Council, the applicant must provide a bond or similar surety in an amount to cover their completion.
- 3. Guarantee of improvements.

All improvements must be accompanied by a written guarantee of all improvements against any defects or imperfections, at the developer's own expense and cost, for a period of two years following acceptance by the Town Council. This must be accompanied by a bond or similar surety in an amount equal to 15% of the improvements and an accurate set of as built drawings

Community Resources Inc. has provided a bond in lieu of completion of improvements. The bond amount is \$705,881.50 and is itemized below:

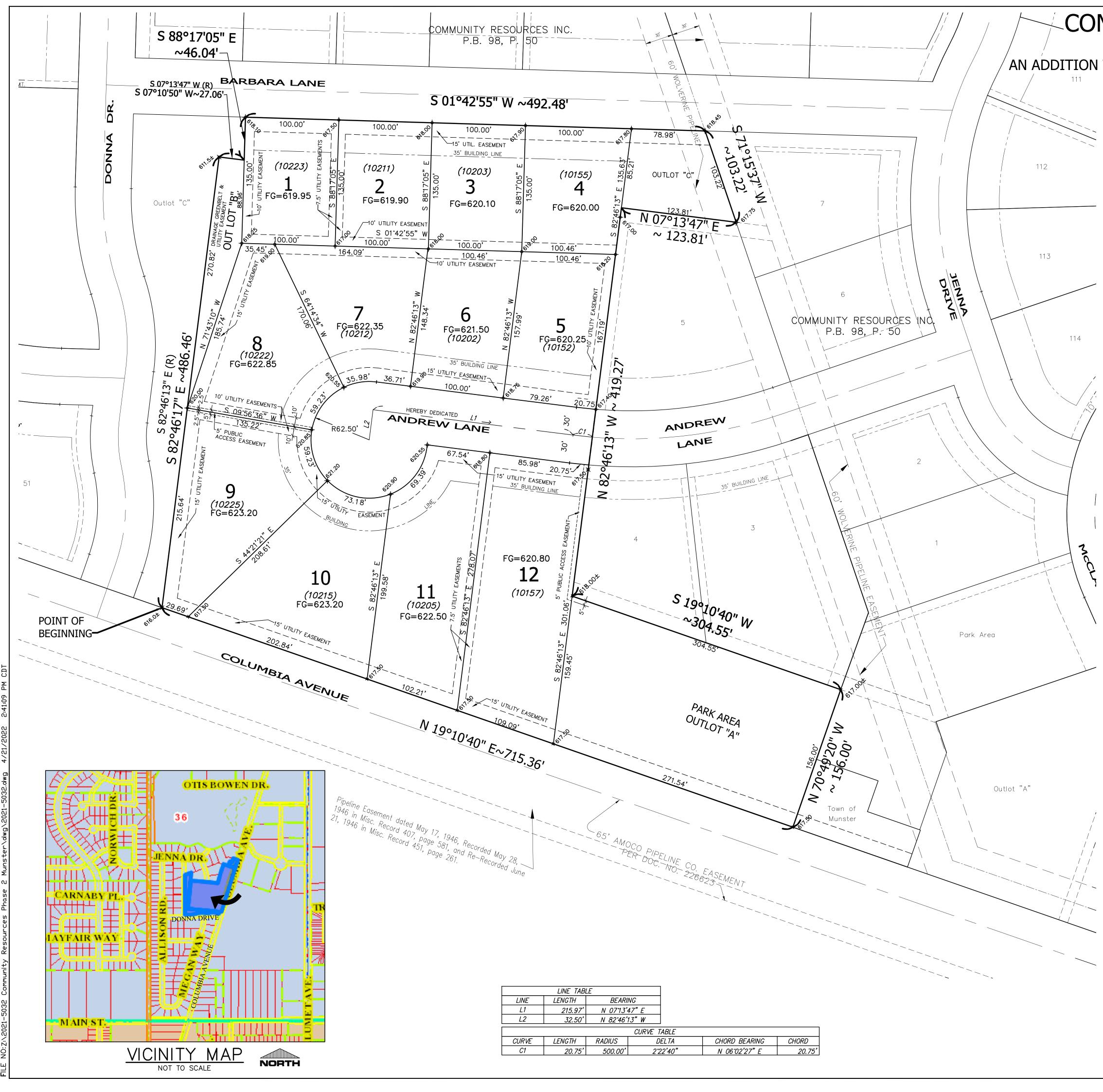
G.E. Marshall Hyre Electric TREE ESTIMATE FENCING ESTIMATE	\$22 \$26	,270.00 ,110.00 ,830.00 ,600.00
TOTAL CONSTRUCTION Performance Bond Valu		\$613,810.00 x 115% \$705,881.50

Staff has reviewed the contracts and estimate provided as verification of the cost of improvements and the bond documents and finds them to be acceptable.

RECOMMENDATION

The Plan Commission may wish to consider the following motion:

Motion to approve the Community Resources, Inc. Phase Two Final Plat.



COMMUNITY RESOURCES, INC. AN ADDITION TO THE TOWN OF MUNSTER, LAKE COUNTY, INDIANA

LEGAL DESCRIPTION

That part of Fractional Section 36, Township 36 North, Range 10 West of the Second Principal Meridian and part of Outlot "C" in Community Resources, Inc. an Addition to the Town of Munster as shown in Plat Book 98, page 50 in the Office of the Recorder of Lake County, Indiana, more particularly described as follows: Beginning at the Northeasterlymost corner of Outlot "C" in said Community Resource, Inc., and also being a point on the Westerly Right-of-Way line of Columbia Avenue (66 feet wide); thence North 19°10'40" East along said Westerly Right-of-Way line of Columbia Avenue, a distance of 715.36 feet; thence North 70°49'20" West, a distance 156.00 feet, to the Easterly most corner of Lot 3 in said Community Resources, Inc.; thence South 19°10'40" West along the Easterly line of Lots 3 and 4 in said Community Resources, Inc., a distance 304.55 feet to the Southeast corner of said Lot 4; thence North 82°46'13" West, a distance of 419.27 feet along the South line of Lots 4 and 5 in said Community Resources, Inc., to the Southwest corner of said Lot 5; thence North 07°13'47" East, a distance of 123.81 feet along the Westerly line of Lot 5 in said Community Resources, Inc., to the Northwest corner of said Lot 5, said line also lying on the Southerly line of Lot 7 in said Community Resources, Inc.; thence South 71°15'37" West, a distance of 103.22 feet along the Southerly line of Lot 7 in said Community Resources, Inc., to the Southwest corner of said Lot 7 also being the East Right-of-Way line of Barbara Lane (60 feet wide), as shown in said Community Resources, Inc.; thence South 01°42'55" West along said East Right-of-Way line of Barbara Lane, a distance of 492.48 feet; thence South 88°17'05" East, a distance of 46.04 feet to a point on the East line of Outlot "C" in said Community Resources, Inc.; thence South 07°10'50" West (South 07°13'47" West Recorded) along said East line of Outlot "C", a distance of 27.06 feet; thence South 82°46'17" East (South 82°46'13" East Recorded) along the North line of said Outlot "C", a distance of 486.46 feet to the point of beginning, containing 7.166 acres, more or less, all in the Town of Munster, Lake County, Indiana.

STATE OF INDIANA } § COUNTY OF LAKE

We, Community Resources, Inc., do hereby certify that we are the owner of the property herein above described, and that of our own free will and accord has caused said property to be surveyed and subdivided into lots, blocks and streets as hereon shown.

This subdivision shall be known and designated as Community Resources, Inc. Phase Two, an Addition to the Town of Munster, Lake County, Indiana. All streets, alleys and crosswalks shown and not heretofore dedicated are hereby dedicated to the public.

Community Resources, Inc.

Donald P. Fesko President / CEO of CFNI

STATE OF INDIANA } COUNTY OF LAKE

Before me, a Notary Public in and for said County and State, personally appeared Donald P. Fesko of Community Resources, Inc., known to me to be same person who signed the above certificate and acknowledged to me that he executed the same as their own free act and deed.

Witness my hand and Notarial Seal this day of

My Commission Expires: County of Residence

Notary Public

STATE OF INDIANA } COUNTY OF LAKE

Submitted to, approved and accepted by the Plan Commission of the Town of Munster, Lake County, Indiana, this day of

Plan Comm. Secretary

STATE OF INDIANA } § COUNTY OF LAKE

Plan Comm. President

I, Gary P. Torrenga, hereby certify that I am a Registered Professional Land Surveyor licensed under the Laws of the State of Indiana; that I have made a survey of the land shown and described herein and subdivided same as shown on the plat hereon drawn; that this plat is correctly shown and that all monuments or markers shown thereon actually exist, and that their locations, size, type and description are accurately shown.

Witness my hand and Seal this

TORRENGA ENGINEERING, INC.

Gary P. Torrenga - Registered L.S. #S0514

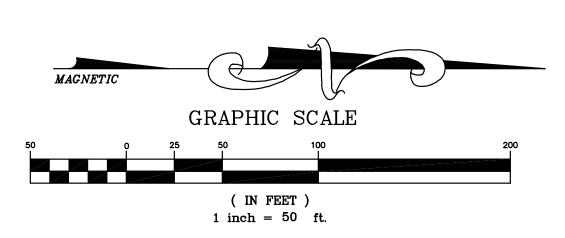


UTILITY EASEMENTS

An easement is hereby granted to the Town of Munster, Indiana, Ameritech, AT&T, Northern Indiana Public Service Company, and other companies identified by the Town of Munster, Indiana as supplying public service needs severally and their respective successors and assigns to install, lay, erect, construct, renew, operate, repair, replace and maintain sewers, water mains, gas mains, conduits, cables, poles and wires, underground with all necessary braces, guys, anchors and other appliances, in, upon, along and over the strip or strips of land designated by dashed lines on the plat and marked "utility easements" for the purpose of serving the public in general with sewer, water, gas, electric, telephone and cable television service, including aerial rights as to streets where necessary with aerial service wires to adjacent lots, together with the right to enter upon the said utility easements at all times for any and all of the purposes aforesaid and to trim and keep trimmed any trees, shrubs, or saplings that interfere with any such utility equipment. Any fences, trees, black tappings, vegetation improvements or other potential obstacles to the use of utility easements shown upon the subdivision plat shall be placed at the risk of the property owner and may be subject to removal in the event of any interference with the use of said utility easements or drainage of other lots. Changes of yard elevations in utility easements from those established upon the subdivision plat or noted on plats submitted and approved when building permits are issued that adversely impact drainage of adjoining lots shall be subject to regrading at the owner's expense. All designated utility easements are also hereby dedicated as drainage easements.

PUBLIC ACCESS EASEMENTS

Easements are hereby granted to the Town of Munster, Indiana and the General Public for the purpose of constructing 5 foot wide sidewalks to provide access to the Park designated on theis plat. Any fences, trees, vegetation improvements or other potential obstacles to the use of the access easements shown upon the subdivision plat shall be placed at the risk of the property owner and may be subject to removal in the event of any interference with the use of said access easements.



TORRENGA ENGINEERING, INC. consulting engineers & land surveyors 907 ridge road. MUNSTER. Indiana 46321	Tol No. (910) 836 8018	
COMMUNITY RESOURCES, INC. TO PHASE TWO		
	REVISIONS:	DATE: 04-21-2022
CLIENT: Community Resources, Inc. 905 Ridge Road Munster, Indiana 46321		SCALE: 1" = 50'
SHEET 1 OF 1		

COMMUNITY RESOURCES, INC. PHASE TWO AN ADDITION TO THE TOWN OF MUNSTER, LAKE COUNTY, INDIANA

	INDEX
PAGE	DESCRIPTION
COVER	TITLE PAGE
C-1.0	EXISTING TOPOGRAPHY & UTILITIES
C-1.1	TREE SURVEY
C-2.0	LOT LAYOUT
C-3.0 TO C-3.1	STORM SEWERS AND GRADING PLAN
C-4.0	SANITARY SEWERS, WATER MAIN, & STRE
C-4.1	PROFILE
C-5.0 TO C-5.2	STANDARD DETAILS & SPECIFICATIONS
C-6.0	STORM WATER POLLUTION PREVENTION PL
C-7.0 TO C-7.1	SWPPP DETAILS & SPECIFICATIONS
1 OF 1	FINAL PLAT





Date and Revisions:

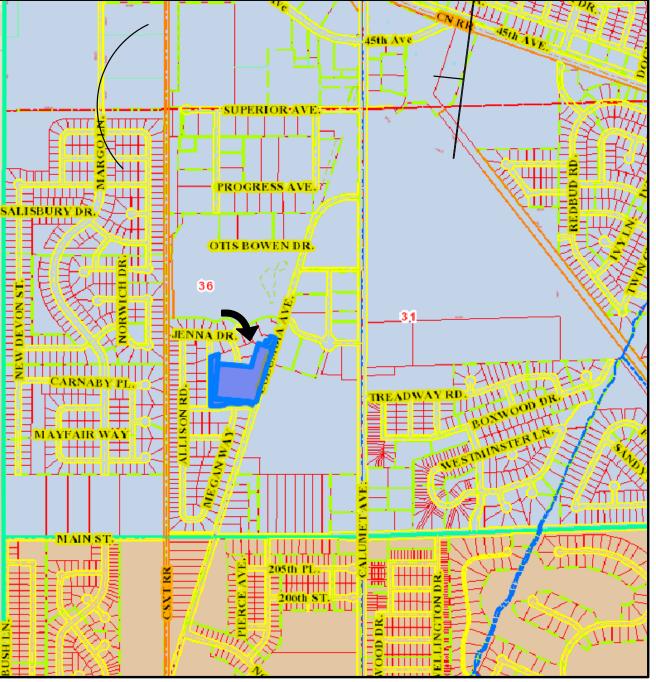
6	12-21-2021	6TH SUBMITTAL TO THE TOWN OF MUNSTER	DT
5	12-10-2021	5TH SUBMITTAL TO THE TOWN OF MUNSTER	DT
4	11-29-2021	4TH SUBMITTAL TO THE TOWN OF MUNSTER	DT/EM
3	11-16-2021	3RD SUBMITTAL TO THE TOWN OF MUNSTER	DT/EM
2	10-21-2021	2ND SUBMITTAL TO THE TOWN OF MUNSTER	DT/EM/SP/MH
1	09-24-2021	1ST SUBMITTAL TO THE TOWN OF MUNSTER	DT/EM/SP/MH
NO.	DATE	DESCRIPTION	BY

EET LIGHTS
LAN (SWPPP)

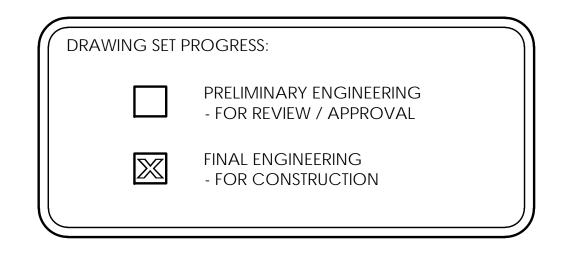
Lansing Municipal Airport
STON

CLIENT/DEVELOPER: COMMUNITY RESOURCES, INC. 905 Ridge Road Munster, Indiana 46321

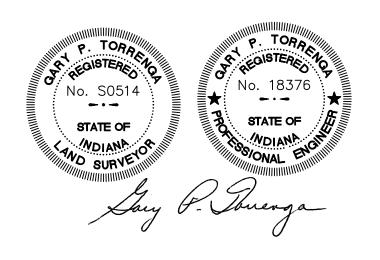
PREPARED BY: Torrenga Engineering, Inc. 907 Ridge Road Munster, Indiana 46321 (219)836-8918

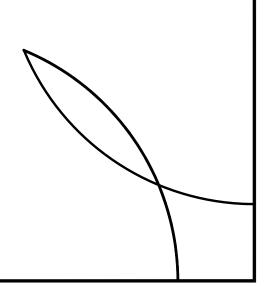


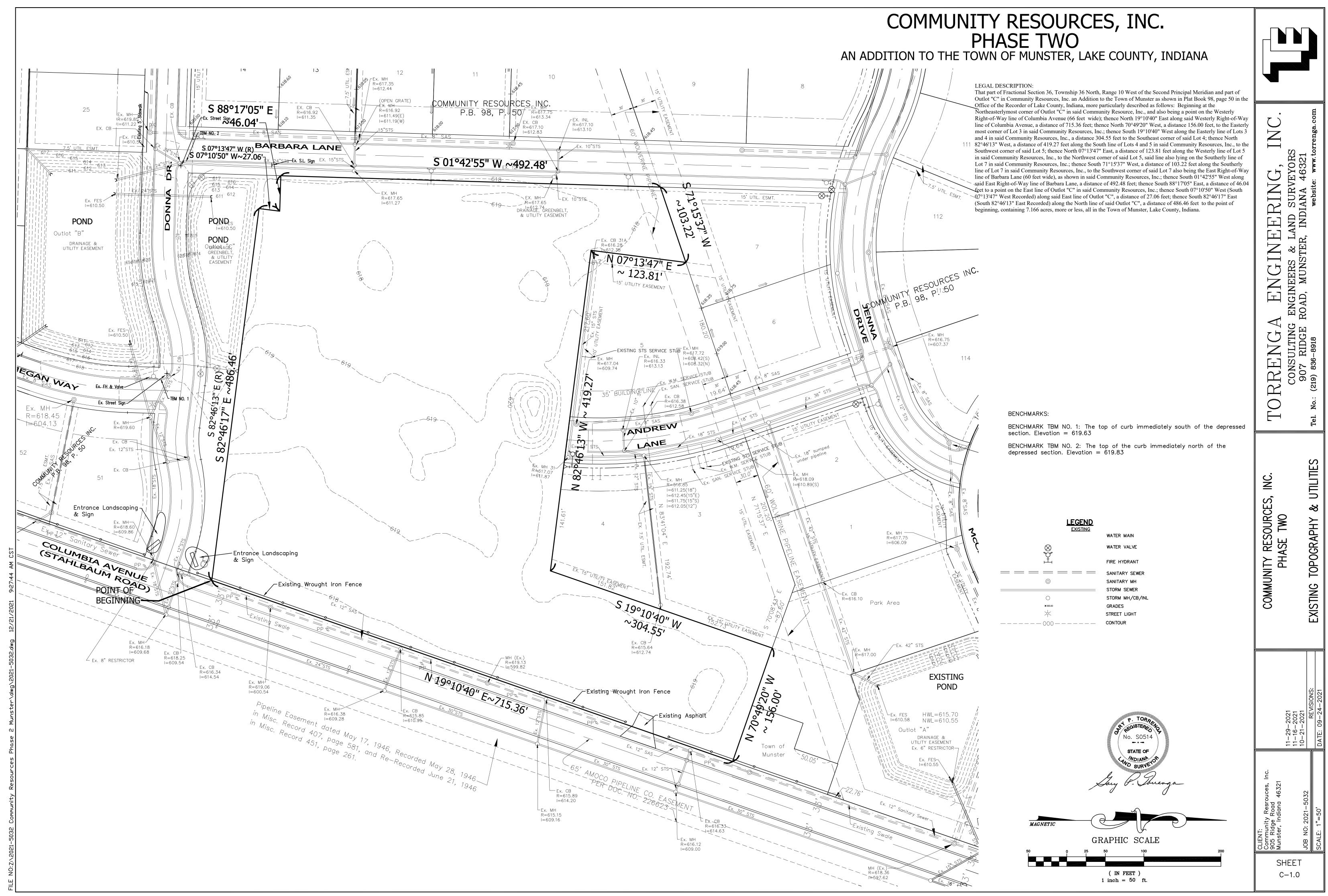
VICINITY MAP

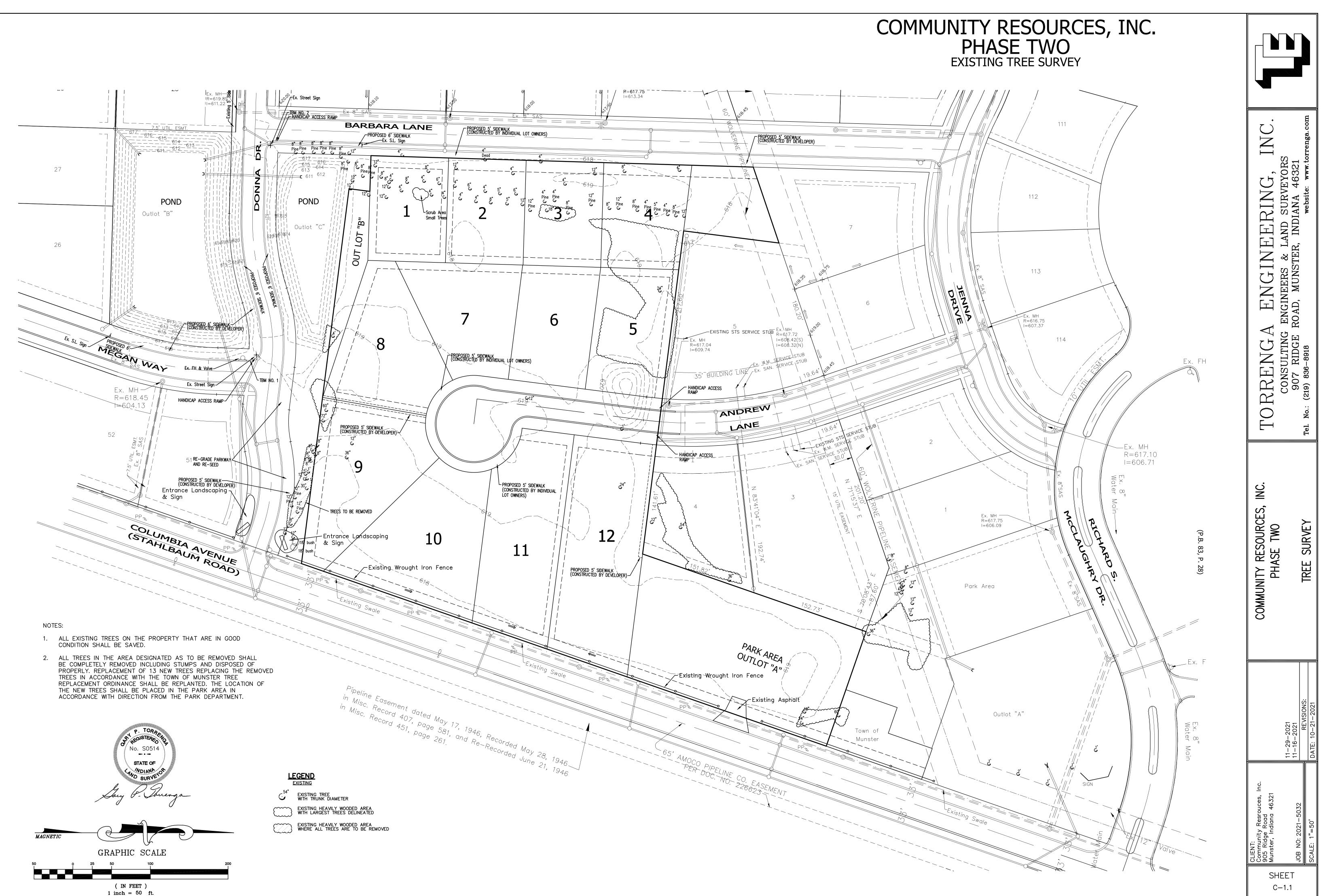


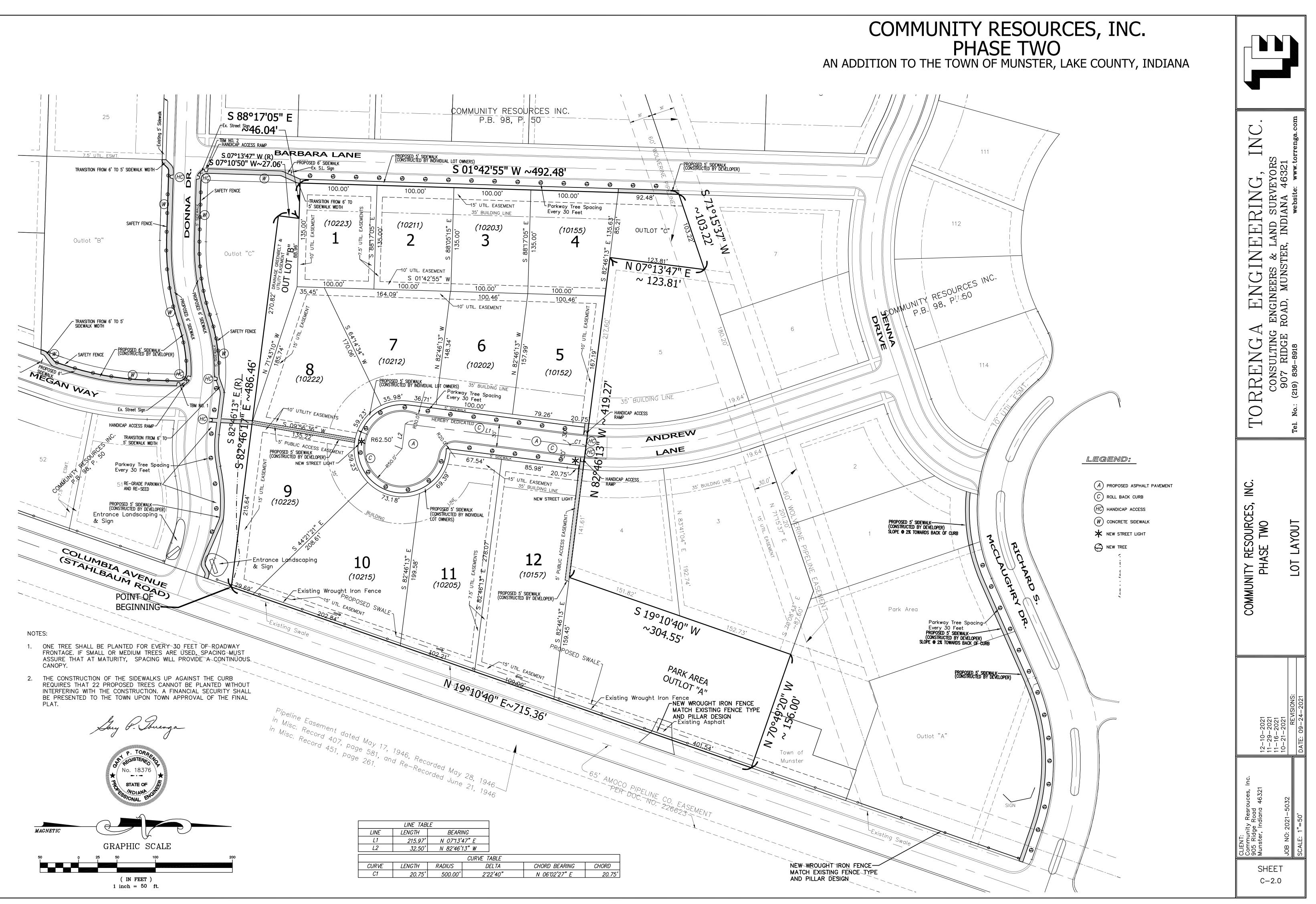
CERTIFIED BY: GARY P. TORRENGA P.E. # 18376 L.S. # S0514

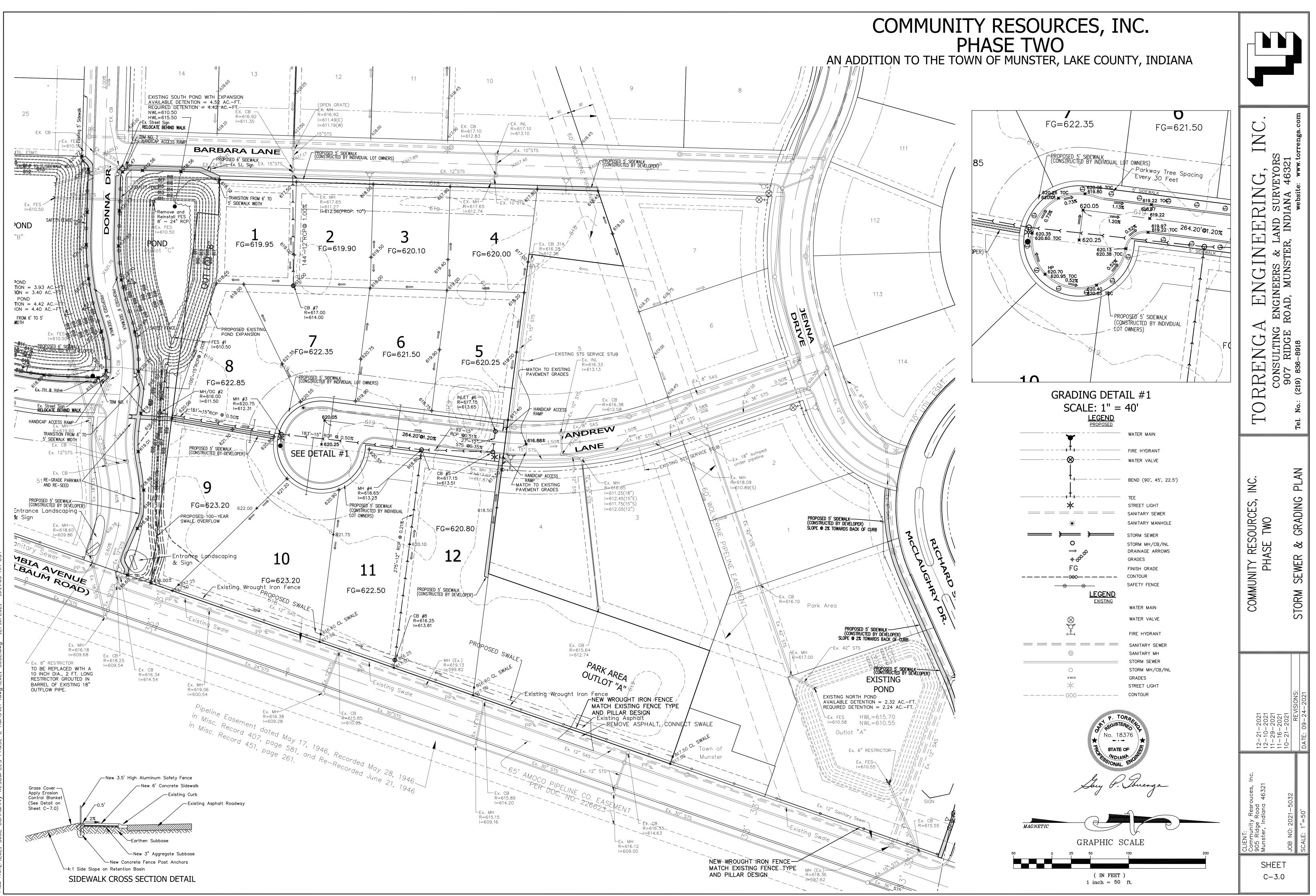


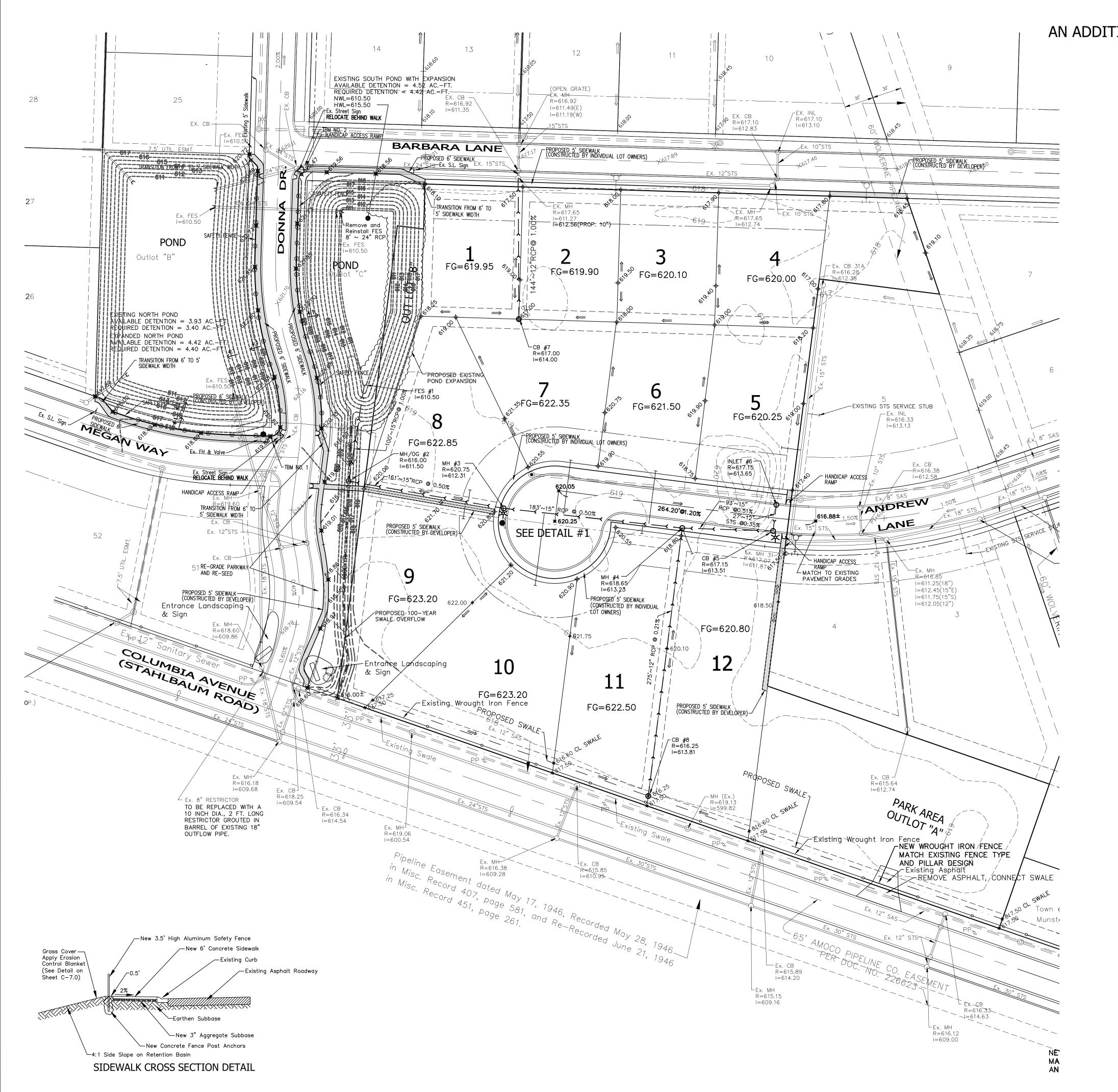


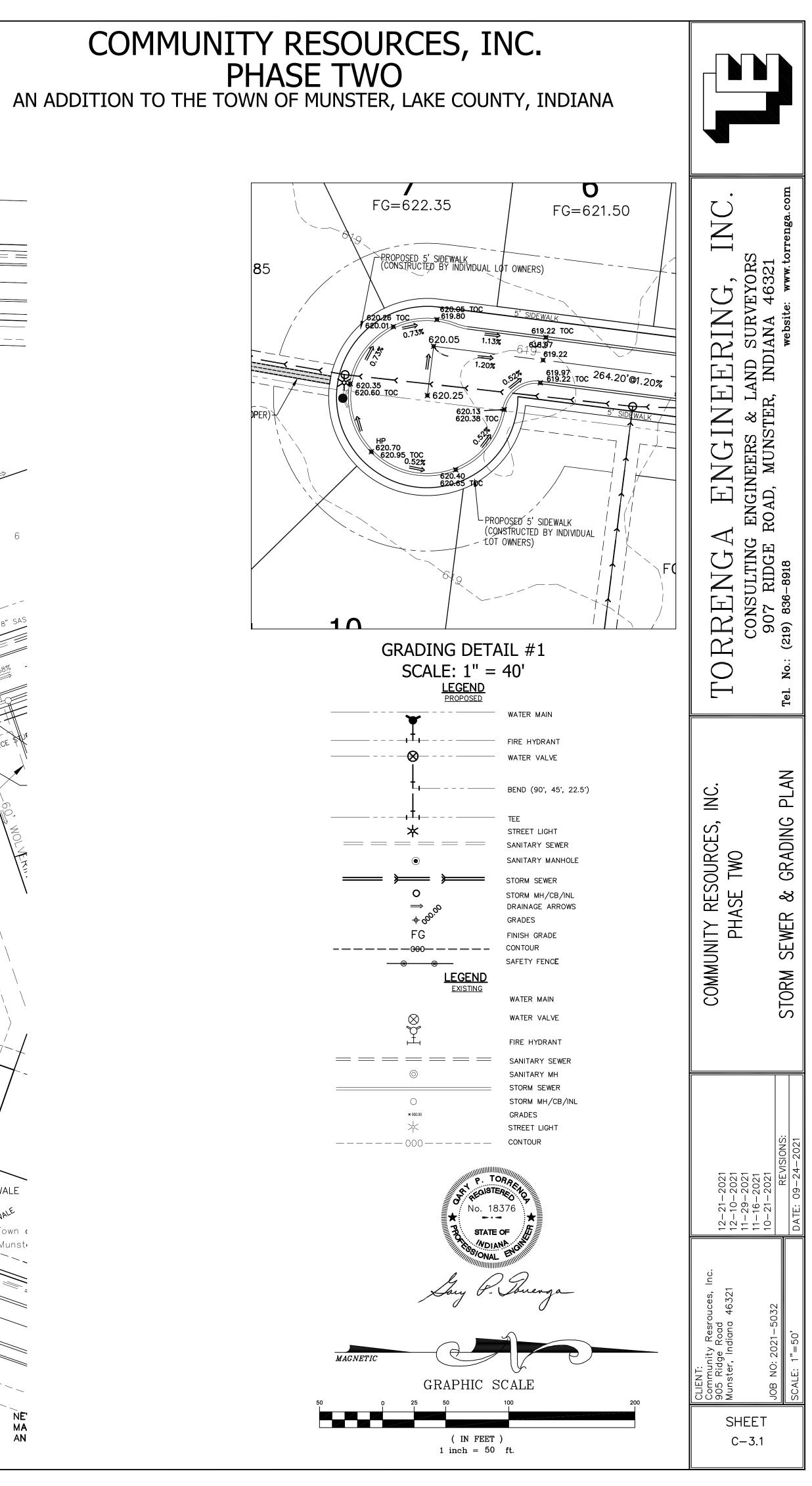


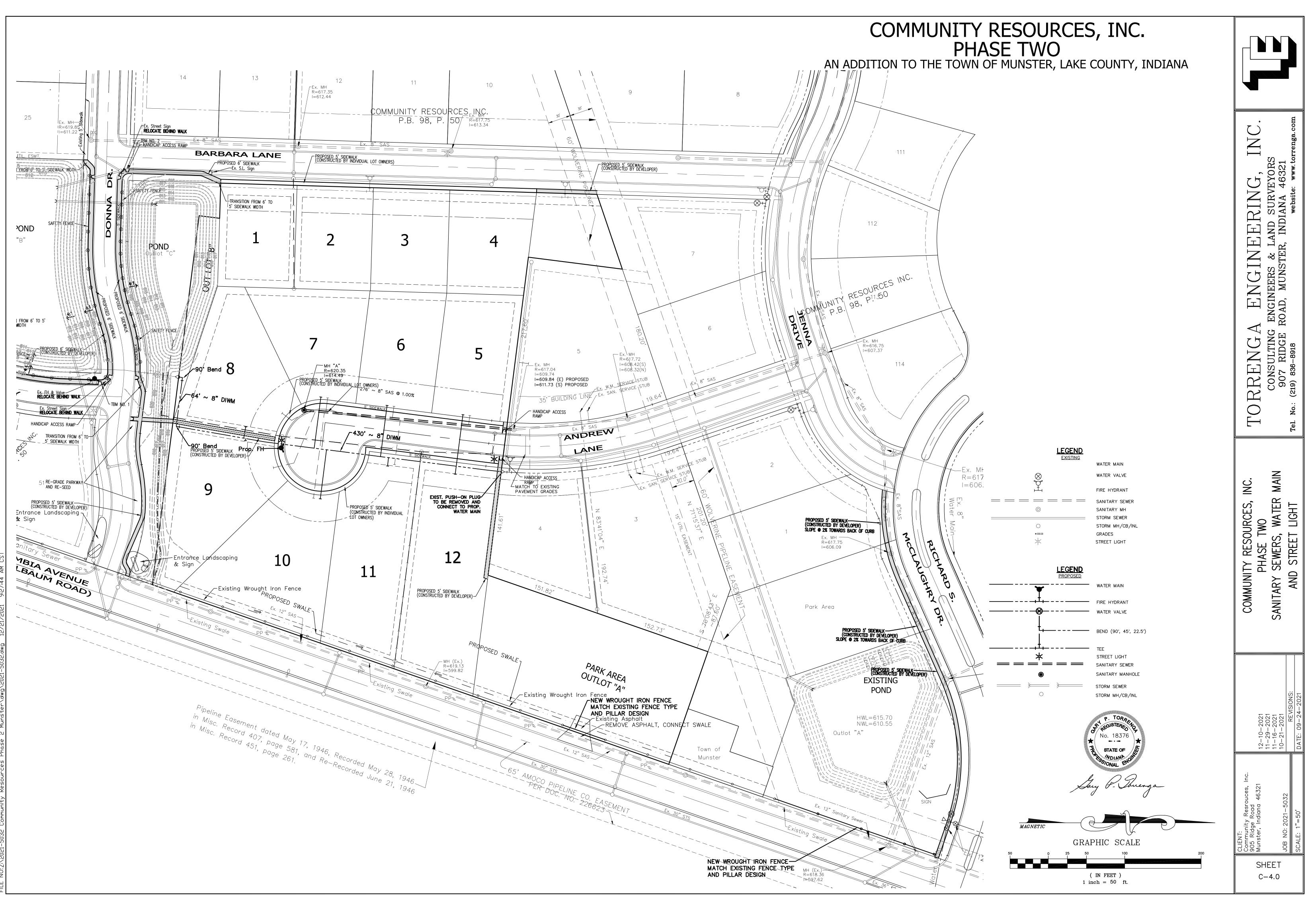




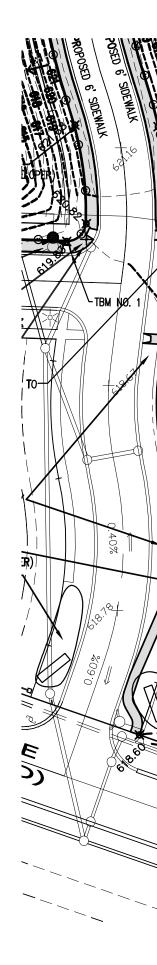


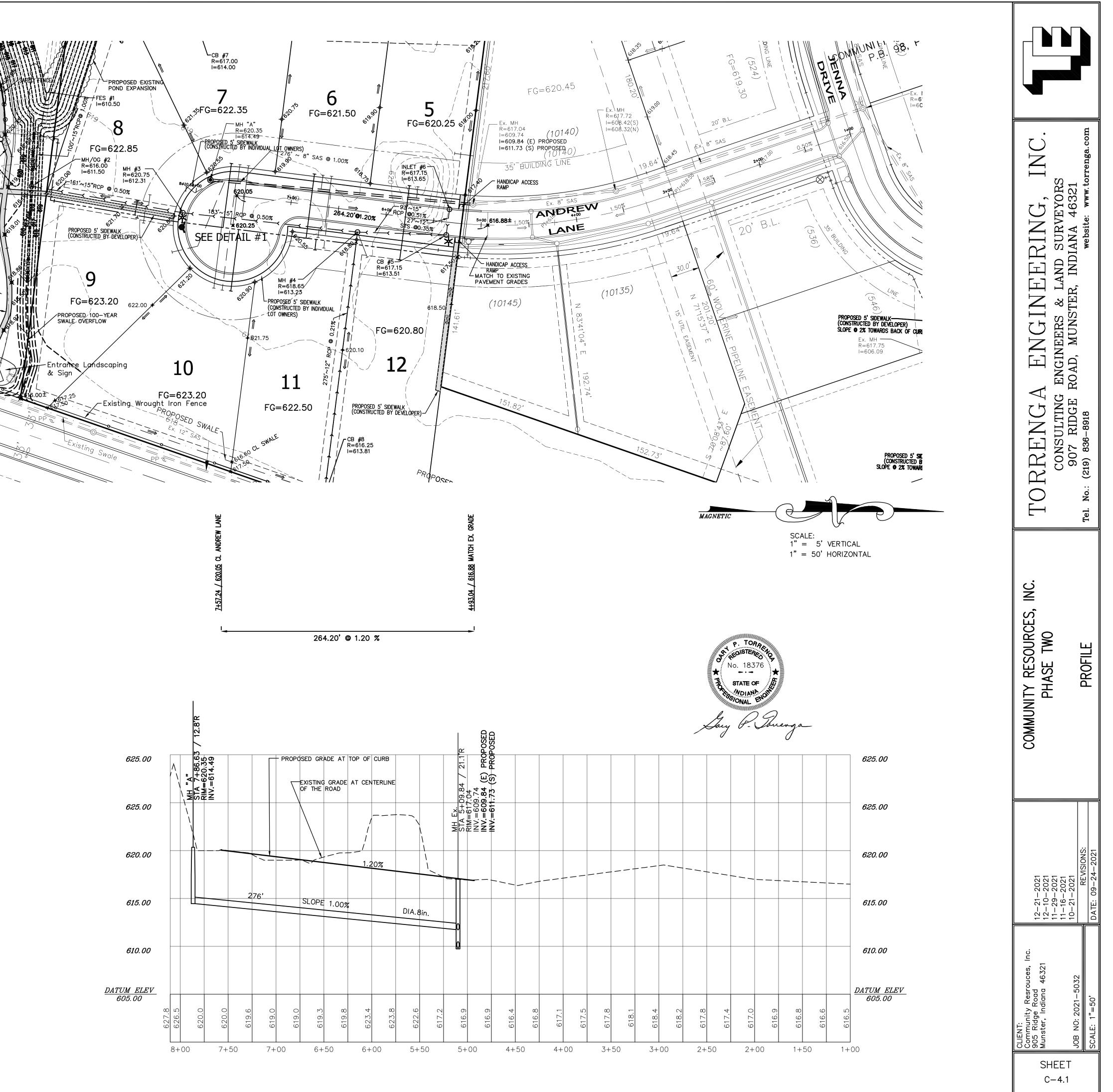






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GENERAL SPECIFICATIONS FOR SANITARY SEWER

1. All work shall be performed in accordance with the Codes, Ordinances and Standards of the Town of Munster, Lake County, and the State of Indiana.

2. All sanitary sewer pipe, branches and fittings shall conform to one of the following: Poly-vinyl chloride (PVC), SDR 26 (ASTM D-3034), with push-on rubber gasket joints (ASTM C-3212). Six inch service pipes shall be in accordance with the infrastructure improvement codes of the Town of Munster.

3. All sanitary sewer manholes shall be standard 48" diameter precast concrete units (ASTM C-478) conforming with the Standard Detail sheet of these plans.

4. The sanitary manhole base shall be precast with a minimum of 2 foot section, trough, ect.

5. Sanitary manholes shall be provided with a watertight gasketed cover.

6. Sanitary manholes shall be protected with an exterior watertight wrap such as Canusa Wrap.

7. All improvements installed across paved or future paved areas shall be backfilled with sand or graded stone aggregate to the subgrade.

8. All sanitary sewer manholes with rim elevations below Flood Protection Elevation shall be provided with water tight locking lids.

9. Each lot in this subdivision shall be provided with a 6" PVC (SDR 23.5) sanitary sewer service tap extended from the main sewer to the street right of way line (or easement line) and located as near as possible to the center of each lot.

10. The competed sanitary sewer system shall be air tested for infiltration and shall have a maximum infiltration of 100 GPD/inch/diameter/mile of sewer pipe. The completed sanitary sewer system shall be air pressure tested for infiltration/exfiltration with 4 lbs. of pressure for 4 minutes. The testing shall conform to the procedure described in ASTM C-838-86 for clay pipe, ASTM C 924 for concrete pipe, ASTM F-1417 for poly-vinyl chloride pipe, and for other materials test procedures approved by the regulatory agency. The Contractor shall be responsible for supplying all testing materials and appurtenances. The Town of Munster shall be notified when the system (or portion thereof) is ready for testing.

11. Deflection tests shall be performed on all flexible pipe materials placed. The contractor shall be responsible for supplying testing materials and appurtenances. The tests shall be conducted after the final backfill has been in place at least 30 days. No pipe shall exceed a deflection of 5%. If the deflection test is to be run using a rigid ball or mandrel, it shall have a diameter equal to 95% of the inside diameter of the pipe. The test shall be performed without mechanical pulling devices. The Town of Munster shall be notified when the system (or portion thereof) is ready for testing.

12. Care should be taken in parkway areas to assure compaction acceptable for the future stability of driveways and sidewalks. While special backfill material is not required, it shall be the responsibility of the Contractor to protect against substantial future settlement of backfilled areas. The contractor shall provide special backfill material across driveways and sidewalks in the event that a sewer or main is installed underneath.

13. All sewers shall be laid at least 10 feet (3.0m) horizontally

from any existing or proposed water main. The distance shall

be measured edge to edge. All sewers crossing water mains

shall be laid to provide a minimum vertical distance of 18

inches (46 cm) between the outside of the water main and

the outside of the sewer. This shall be the case where the

water main is either above or below the sewer. The crossing

support shall be provided for the sewer to prevent damage to

sewer shall be designed and constructed equal to water pipe.

Built" construction drawings showing actual sizes and lengths

valve, etc.), location of service taps and any structures added

Engineer) with one set of reproducible original "As-Built" Plans

and shall supply the Town of Munster with 2 copies thereof

prior to and as a condition of the final acceptance.

or omitted in comparison with these engineering plans. The

Contractor shall supply the Developer (through the Project

14. The Contractor is responsible for the preparation of "As

of pipe installed (i.e. from manhole to manhole or tee to

shall be arranged so that the sewer joints will be equidistant

and as far as possible from the water main joints. Where a

water main crosses under a sewer, adequate structural

the water main. When it is impossible to obtain proper

horizontal and vertical separation as stipulated above, the

GENERAL SPECIFICATIONS FOR WATER MAINS

1. All work shall be performed in accordance with the Codes, Ordinances and Standards of the Town of Munster, and the State of Indiana.

2. All water main pipe shall be Ductile Iron Pipe (AWWA C151 C-52) with bell and spigot push-on rubber gasket joints (AWWA CIII). All water main pipe shall be installed with a minimum cover of 5.0 feet from top of curb to top of pipe. All fire hydrants, tees, bends and fittings shall be suitably harnessed or thrust blocked with concrete. All ductile iron watermains shall be wrapped in a polyethelene encasement meeting AWWA C105 Low Density, 8 mil thickness.

3. All improvements installed across paved or future paved areas shall be backfilled with sand or graded stone aggregate to the subgrade.

4. All water valves 12" or larger shall be placed in vaults.

5. On 12" water main bends, restrained joints shall be used, megalug or equal. At 90° bends, the water main shall be additionaly restrained at 1 joint in each direction.

6. All fire hydrants shall be Mueller Super Centurion with 5" Storz adapter painted yellow, and shall be backfilled with 3/4" stone for drainage purposes.

7. All water mains shall be laid at least 10 feet (3.0m) horizontally from any existing or proposed sewer. The distance shall be measured from outside of pipe to outside of pipe. All sewers crossing water mains shall be laid to provide a minimum vertical distance of 18 inches (46 cm) between the outside of the water main and the outside of the sewer. This shall be the case where the water main is either above or below the sewer. The crossing shall be arranged so that the sewer joints will be equidistant and as far as possible from the water main joints. Where a water main crosses under a sewer, adequate structural support shall be provided for the sewer to prevent damage to the water main. When it is impossible to obtain proper horizontal and vertical separation as stipulated above, the sewer shall be designed and constructed equal to water pipe.

8. Care should be taken in parkway areas to assure compaction acceptable for the future stability of driveways and sidewalks. While special backfill material is not required, it shall be the responsibility of the Contractor to protect against substantial future settlement of backfilled areas. The Contractor shall provide special backfill material across driveways and sidewalks in the event that a water main is installed underneath.

9. Each lot in this subdivision shall be provided with a 1" diameter copper water service tap extended from the water main to the street right of way line (or easement line) and ending with an approved Buffalo Box. Water main service lines shall be installed with a minimum cover of 5.0 feet from the top of the curb to the top of the service line.

10. The Buffalo Boxes shall be arch pattern box style and shall be located in parkways, if possible. No Buffalo Boxes shall be located in concrete areas, and they shall have AWWA approved shut offs and corporation valves.

11. All water main pipe shall be disinfected by the use of liquid chlorine. The Contractor shall notify the town of Munster when the water main system (or portion thereof) is ready for testing.

12. The Contractor is responsible for water quality tests done by a State Certified Laboratory. The Town of Munster Water Department staff shall be notified and be present while tests are being performed. The approved water system shall be turned on by the Water Department Staff, only after the water quality reports have been approved.

13. The newly installed water main (or portions thereof) shall be subjected to a pressure and leakage test, using hydrostatic testing. Test pressure shall not be less than 1.5 times the working pressure or exceed pipe design pressure. Pressure shall not vary by more than \pm 5 PSI for a minimum of a 2 hour duration test. The exposed pipe and joints shall be examined carefully during the test and any damaged or defective pipe or joints shall be replaced, and the test shall be repeated. The allowable leakage shall not exceed 11.65 gpd/mi/in of nominal pipe diameter at a pressure of 150 PSI.

All visible leaks are to be repaired regardless of the amount of leakage. The contractor shall be responsible for supplying all testing materials and appurtenances. The Town of Munster shall be notified when the water main (or portion thereof) is ready for testing.

14. The contractor is responsible for the preparation of "As Built" construction drawings showing actual sizes and lengths of pipe installed (i.e. from manhole to manhole or tee to valve, etc.), location of service taps and any structures added or omitted in comparison with these engineering plans. The Contractor shall supply the Developer (through the Project Engineer) with one set of reproducible original "As-Built" Plans and shall supply the Town of Munster with 2 copies thereof prior to and as a condition of the final acceptance.

GENERAL SPECIFICATIONS FOR STORM SEWERS

2. Each Lot in this Subdivision shall be provided with a 4" diameter storm sewer service tap extended from the main sewer to the street right of way line (or utility easement line) and located as nearly as possible to the center of each lot.

3. All storm sewer pipe, branches and fittings shall conform to either of the following: Reinforced concrete pipe (ASTM C-76) with bell and spigot or tongue and groove push-on mastic joints. Class V reinforced concrete pipe shall be used for lines 15" diameter or under and Class III shall be used for lines 18" and over.

(ASTM C-478) conforming with the standard details sheet of these plans.

7. All improvements installed across paved or future paved areas shall be backfilled with sand or graded stone aggregate to the subgrade line.

8. Dumped Rip-Rap will be provided at all end sections, to produce a surface of approximate regularity. The finished surface shall not vary by more than 9 inches and the depth of Rip-Rap shall not be less than 12 inches nor more than 24 inches.

existing or proposed water main. The distance shall be measured edge to edge. All sewers crossing water mains shall be laid to provide a minimum vertical distance of 18 inches (46 cm) between the outside of the water main and the outside of the sewer. This shall be the case where the water main is either above or below the sewer. The crossing shall be arranged so that the sewer joints will be equidistant and as far as possible from the water main joints. Where a water main crosses under a sewer, adequate structural support shall be provided for the sewer to prevent damage to the water main. When it is impossible to obtain proper horizontal and vertical separation as stipulated above, the sewer shall be designed and constructed equal to water pipe.

10. The Contractor is responsible for the preparation of "As Built" construction drawings showing actual sizes and lengths of pipe installed (i.e. from manhole to manhole or tee to valve, etc.), location of service taps and any structures added or omitted in comparison with these engineering plans. The Contractor shall supply the Developer (through the Project Engineer) with one set of reproducible original "As-Built" and shall supply the Town of Munster with 2 copies thereof prior to and as a condition of final acceptance.

CURB NOTE: 1. Concrete Curb and Gutter shall be constructed in accordance with the state specifications except as herin modified.

a) Expansion joints shall be 3/4" in thickness, using premolded joint filler material and two 3/4" diameter smooth round dowel bars 30" long fully greased, placed in pairs at the ends of all radii, at roadway intersections, at the junction of new and existing curb, at all cold joints, at a minimum 40' interval between said radii locations.

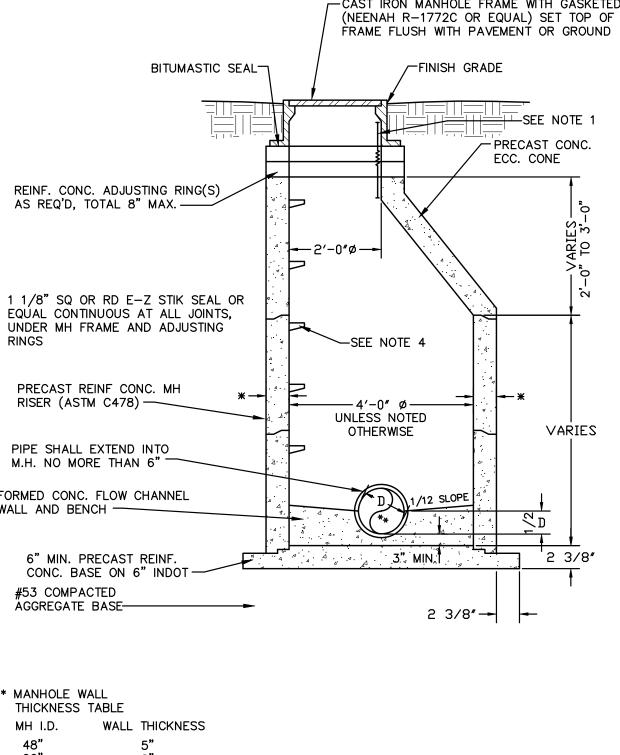
b) Said dowel shall be placed so that half their length is in either side of the joint. On the same end of each bar, there shall be placed a plastic, premolded expansion tip, which will allow lateral and expansion movement. The dowel bars shall be placed such that they shall be encased in concrete, a minimum of 3" in any direction.

EXISTING GRADE-

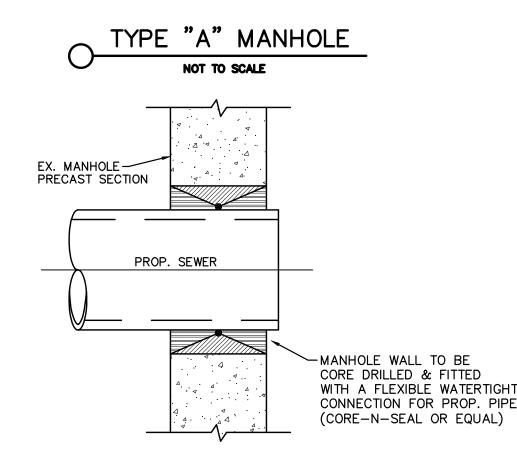
ASPHALT PAVE.

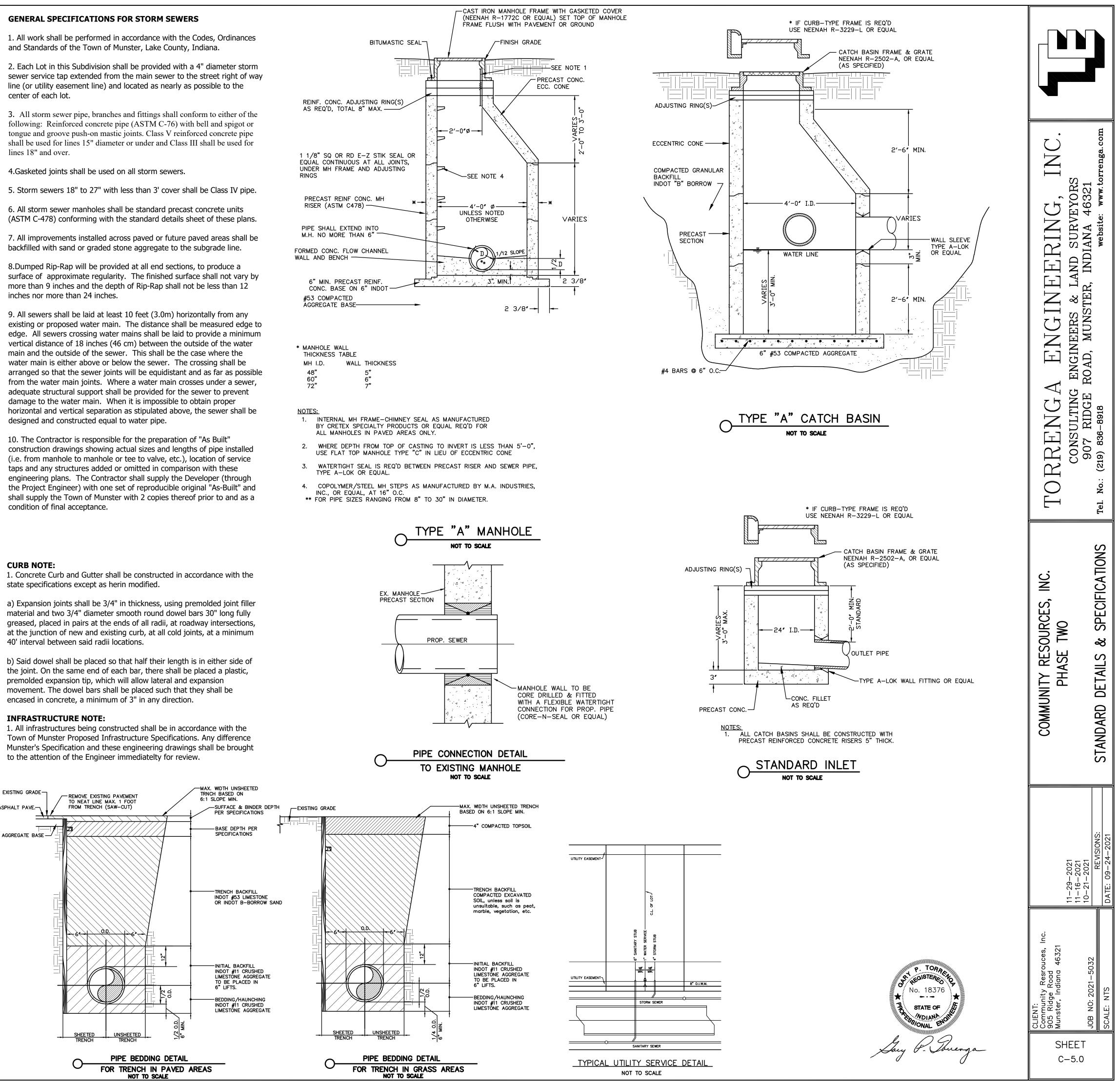
and Standards of the Town of Munster, Lake County, Indiana.

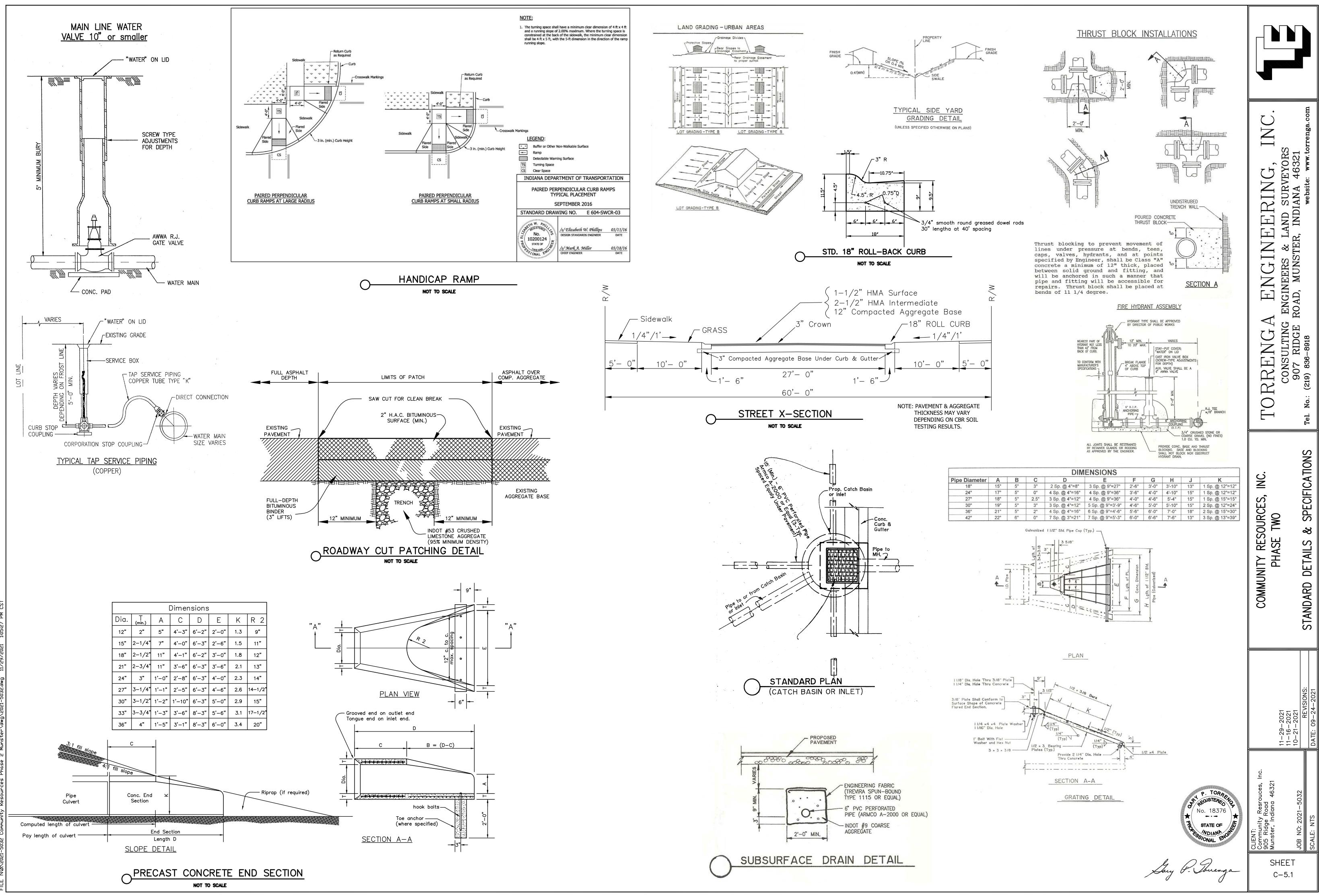
Town of Munster Proposed Infrastructure Specifications. Any difference

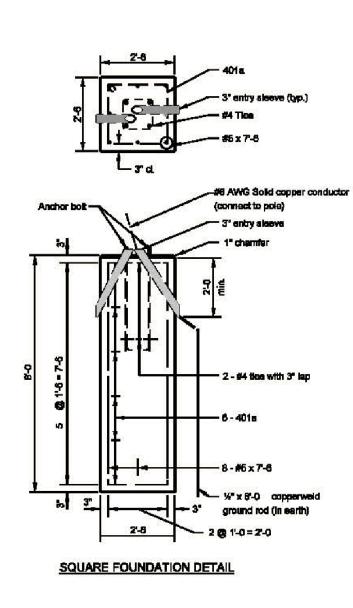


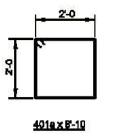
- TYPE A-LOK OR EQUAL

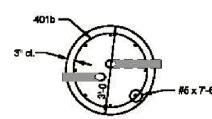


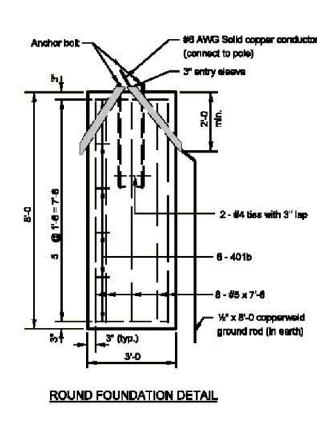




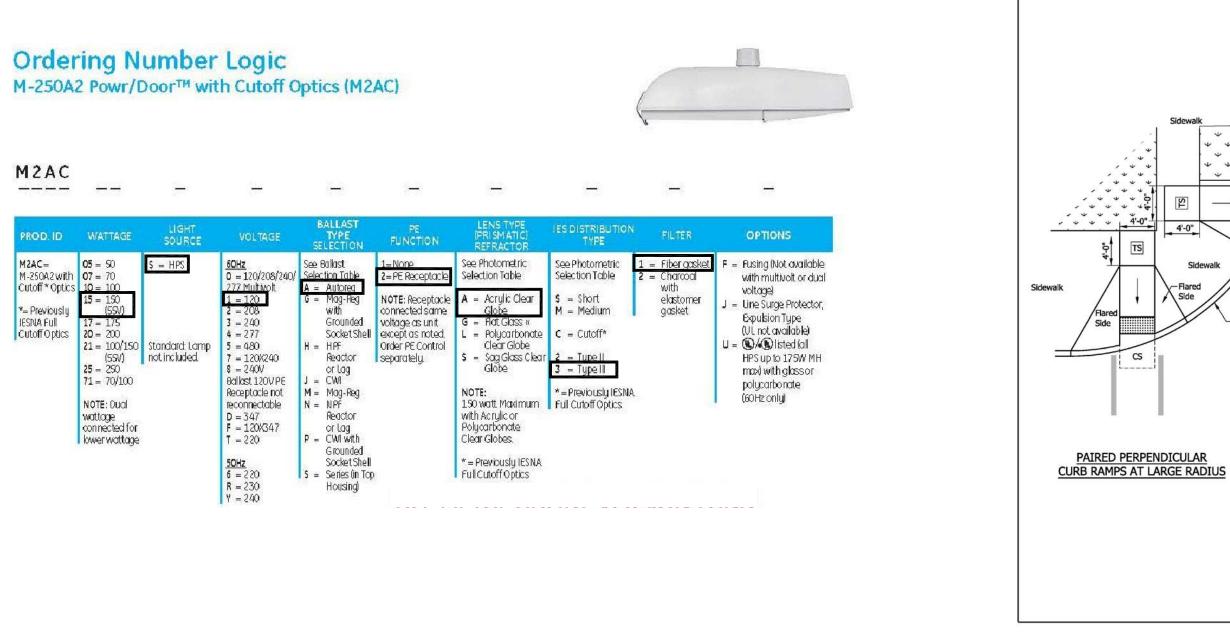








401bx9-4



AC = 250A2 with toff * Optics	0 0 10 1
Previously NA Full toff Optics	1 2 2
	27
	N
	W
	0

28' to 33' ROUND TAPERED ALUMINUM **valmont ∛** 4-Bolt Anchor Base STRUCTURES Client Name: Job Name: E Job Location - City: ____ State: _ Created By: - Date: -----Quote: ____ _ Date: _____ Customer Approval: ____



SPECIFICATIONS

Pole - The pole shaft is spun from seamless alloy aluminum.

Pole Top - A pole top tenon is provided for top mount luminaire and/or bracket. A removable pole cap is available for poles receiving drilling patterns for side-mount luminaire arm assemblies side-mount luminaire arm assemblies.

Handhole - A covered handhole with hardware and grounding provision are provided.

Base Cover - Optional Dart Square-2T cast and decorative base covers available as special order.

Anchor Base - The anchor base is cast from 356 alloy aluminum. The completed assembly is heat-treated to a T6 temper. Aluminum nut covers are included with anchor base unless otherwise specified.

Anchor Bolts - Anchor bolts conform to ASTM F1554 Grade 55 and are provided with two hex nuts and two flat washers. Bolts have an "L" bend on one end and are galvanized a minimum of 12" on the threaded end.

Finish - The standard finish for the pole assembly and components is satin brushed, natural anodize, duranodic or polyester powder applied coating in ac-cordance with Valmont's Specifications. Additional finish options available upon request.

Design Criteria - Please reference Design Criteria Specification for appropriate design conditions.

STREET LIGHT

NOT TO SCALE

TA

28' to 33' ROUND TAPERED ALUMINUM 4-Bolt Anchor Base



0° - Handhole

Job Name:		Client Name:	
Job Location - City:	State:	Created By:	Date:
Product:	Quote:	Customer Approval:	Date:

ANCHORAGE DATA

P 0	IE		BASE	PLATE		ANCHOR	BOLTS		Anchor Base Detail	
BASE OD (IN)	WALL THK (IN)	BOLT CI DIA (IN)	RCLE ± (IN)	SQUARE (IN)	THK (IN)	DIA X LENGTH X HOOK (in)	PROJECTION (IN)	+/- (IN)	180° Bolt S	ots/Holes
7.00	0.156	10.56	0.43	11.26	0.750	1.00 x 36.00 x 4.00	4.13	N/A		
8.00	0.156	11.63	0.37	12.05	0.750	1.00 x 36.00 x 4.00	4.13	N/A	T D Bolt C	rcle
8.00	0.188	11.63	0.37	12.05	0.750	1.00 x 36.00 x 4.00	4.13	N/A		
8.00	0.250	11.63	0.37	12.05	0.750	1.00 x 36.00 x 4.00	4.13	N/A		
9.00	0.156	13.25	0.75	12.48	1.250	1.00 x 36.00 x 4.00	4.13	N/A	270° (As viewed) 90°	
9.00	0.188	13.25	0.75	12.48	1.250	1.00 x 36.00 x 4.00	4.13	N/A	7 270 (from top) 30	
10.00	0.188	14.25	0.75	13.19	1.250	1.00 x 36.00 x 4.00	4.75	N/A	T 💧 🔪 of pole. 🎢 🏌	
10.00	0.250	14.50	0.50	14.00	1.250	1.25 x 42.00 x 6.00	5.25	N/A		

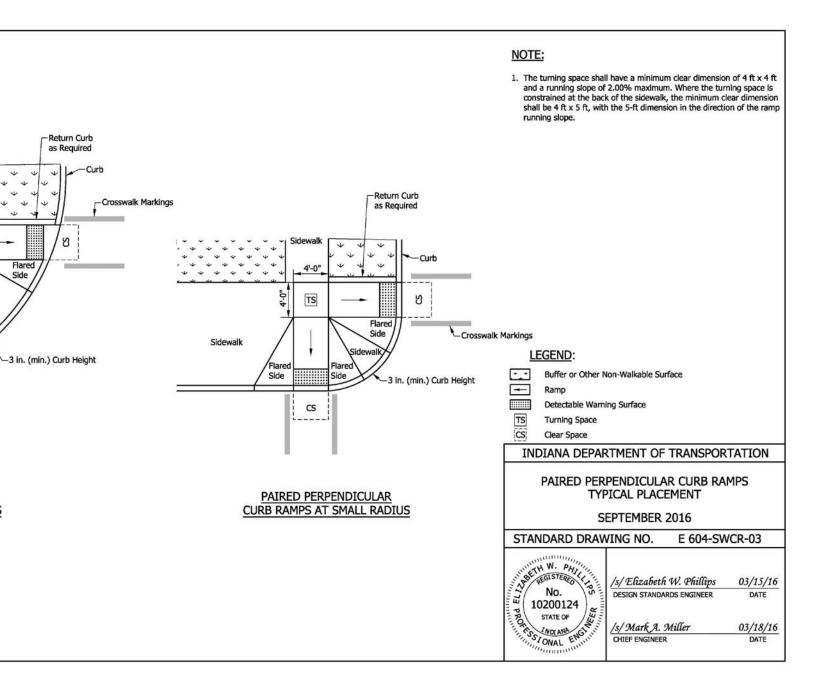
LOAD AND DIMENSIONAL DATA

	DE SIGN INFORMATION										P	OLE DIME	INSIONS			
	1.000	MP H GUST	100000	MPH GUST		MPH		MPH GUST		MPH GUST						
NOMINAL MOUNTING HEIGHT	MAX EPA' (SQ FT)	MAX WEIGHT (LBS)	MAX EPA' (SQ FT)	MAX WEIGHT (LBS)	MAX EPA' (SQ FT)	M AX WEIGHT (LBS)	MAX EPA' (SQFT)	MAX WEIGHT (LBS)	MAX EPA' (SQ FT)	MAX WEIGHT (LBS)	POLE HEIGHT	BASE OD (IN)	TOP OD (IN)	WALL THK (N)	STRUCTURE WEIGHT ² (LBS)	MODEL NUMBER
	10.5	150	7.1	150	5.0	150	3.7	150	2.8	150	27'-8"	7.00	4.00	0.156	92	+270840705T4
	15.5	150	11.1	150	8.3	150	6.5	150	5.1	150	27'-8"	8.00	4.50	0.156	105	270845805T4
	19.6	150	14.3	150	10.8	150	8.5	150	6.8	150	27'-8"	8.00	4.50	0.188	124	270845806T4
28'-0"	27.4	150	20.2	150	15.5	150	12.3	150	9.9	150	27'-8"	8.00	4.50	0.250	161	270845808T4
20-0	21.4	150	15.7	150	12.0	150	9.4	150	7.5	150	27'-8"	9.00	4.50	0.156	116	270845905T4
	26.8	150	19.8	150	15.2	150	12.0	150	9.7	150	27'-8"	S	10.12.00	111210-021210		270845906T4
	34.5	200	26.0	200	20.2	200	16.0	200	12.9	200	27'-8"					270860106T4
	46.6	300	35.3	300	27.5	300	22.0	300	17.8	300	27'-8"	1				270860108T4
	8.8	150	5.7	150	3.8	150	2.7	150	2.0	150	29'-8"					+290840705T4
	13.3	150	9.3	150	6.9	150	5.3	150	4.1	150	29'-8"					+290845805T4
	17.1	150	12.2	150	9.2	150	7.1	150	5.6	150	29'-8"					290845806T4
30'-0"	18.8	150	13.6	150	10.3	150	8.0	150	6.3	150	29'-8"	9.00	4.50	0.156	127	+290845905T4
30-0	23.7	150	17.4	150	13.3	150	10.4	150	8.3	150	29'-8"	9.00	4.50	0.188	149	290845906T4
	24.2	150	17.7	150	13.6	150	10.7	150	8.6	150	29'-8"	8.00	4.50	0.250	174	290845808T4
	30.9	200	23.2	200	17.9	200	14.1	200	11.3	200	29'-8"	10.00	6.00	0.188	175	290860106T4
	41.9	300	31.7	300	24.6	300	19.6	300	15.8	300	29'-8"	10.00	6.00	0.250	235	290860108T4
	10.4	150	7.1	150	5.1	150	3.8	150	2.9	150	32'-8"	8.00	4.50	0.156	124	+320845805T4
	13.8	150	9.7	150	7.1	150	5.5	150	4.2	150	32'-8"	8.00	4.50	0.188	147	320845806T4
	15.3	150	10.9	150	8.1	150	6.2	150	4.8	150	32'-8"	9.00	4.50	0.156	138	+320845905T4
33'-0"	19.7	150	14.2	150	10.7	150	8.4	150	6.6	150	32'-8"	9.00	4.50	0.188	163	320845906T4
	20.1	150	14.5	150	11.0	150	8.6	150	6.8	150	32'-8"	8.00	4.50	0.250	190	320845808T4
	26.0	200	19.4	200	14.9	200	11.7	200	9.2	200	32'-8"	10.00	6.00	0.188	191	320860106T4
	35.8	300	26.9	300	20.8	300	16.4	300	13.1	300	32'-8"	10.00	6.00	0.250	257	320860108T4

1. EPA represents the Effective Projected Area of each luminaire. Designs are limited to top mount or side-mount luminaires. Variations from sizes above are available upon inquiry at the factory. Satisfactory performance of poles is dependent upon the pole being properly attached to a supporting foundation of adequate design. 2. Structure weight is a nominal value which includes the pole shaft and base plate.

+ Pole includes factory installed vibration damper. PRODUCT OPPERING CODEC

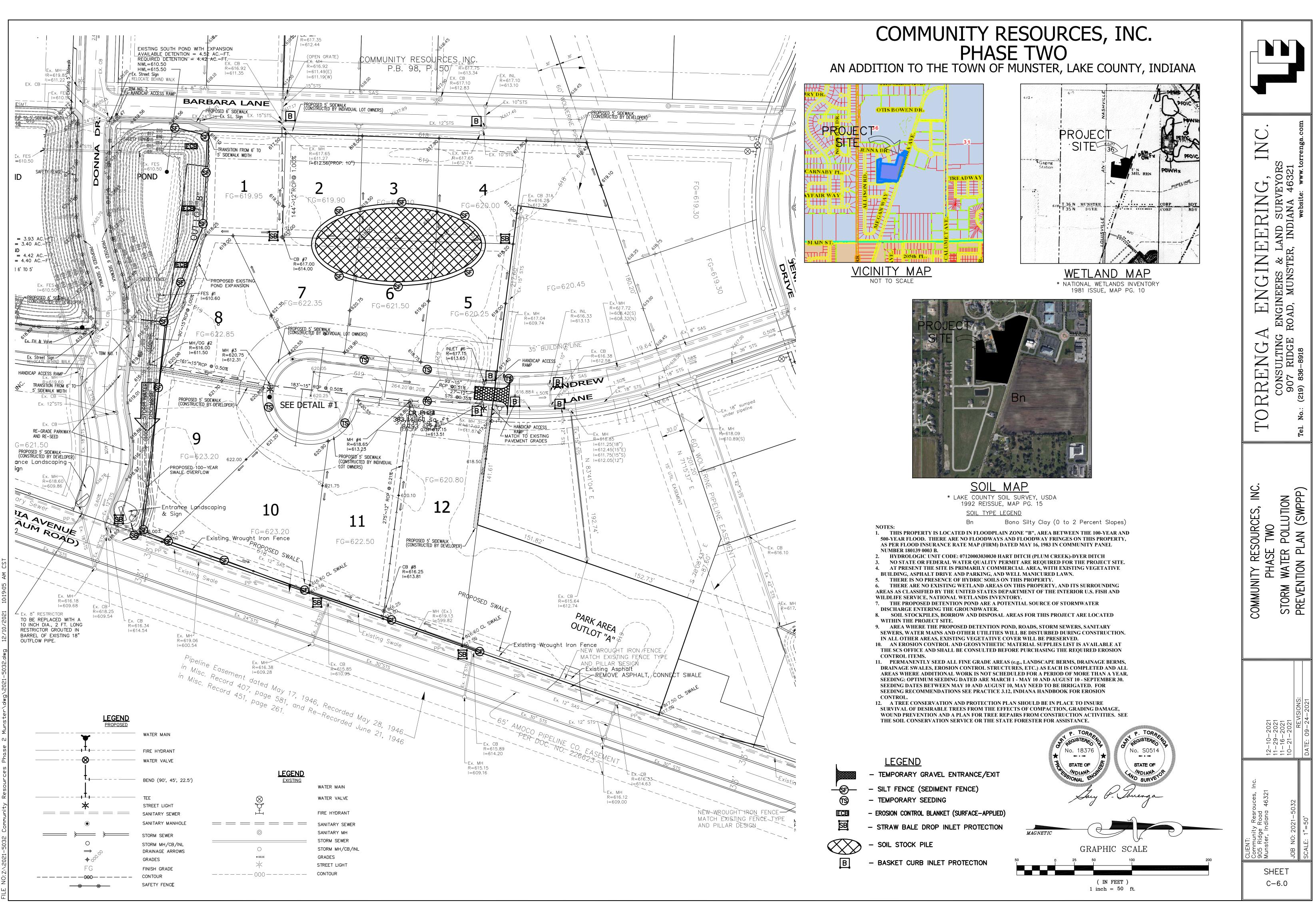
CROSS SECTION	MODEL NUMBER	FIXTURE MOUNTING	COL	OR	OP TIONS
R				7000	
R = Round	+27084070514 270845805T4 270845806T4 270845808T4 270845905T4 270865905T4 270860106T4 270860108T4 +290840705T4 +290845805T4 290845806T4 290845806T4 290845808T4 290860108T4 +320845805T4 320845805T4 320845806T4 320845808T4 320845808T4 320845808T4 320860106T4 320860106T4	Drill Mounting D1 = 1 Luminaire D2 = 2 @ 180° D3 = 3 @ 120° D4 = 4 @ 90° D5 = 2 @ 90° D6 = 3 @ 90° Tenon Mounting P2 = 2.38" OD × 4.00" P3 = 3.50" OD × 6.00" P4 = 4.00" OD × 6.00" P5 = 2.88" OD × 4.00" P7 = 2.38" OD × 12.00" PQ = 2.38" OD × 12.00" PD = 3.00" OD × 3.00" = Plain Top P9 = Other Tenon (C ontact Factory)	Polyester Powder DWH = White DSS = Sandstone BR = Burgundy HG = Hunter Green DNA = Natural Aluminum DCG = Charcoal Gray DMB = Medium Bronze SBN = Sanded Brown DNB = New Dark Bronze DDB = Dark Bronze SBK = Sanded Black DBL = Black DBL = Black DBL = Black DBL = Black DBR = Steel Blue DTG = Dark Green DBR = Red SC = Special Color (Contact Factory)	Anodized 204 = Clear Natural 311 = Light Bronze* 312 = Medium Bronze* 313 = Dark Bronze* 335 = Black* *Duranodic Anodize Brushed SBF = Satin Brushed	See Accessories at valmontstructures.com (Please Specify with Code)

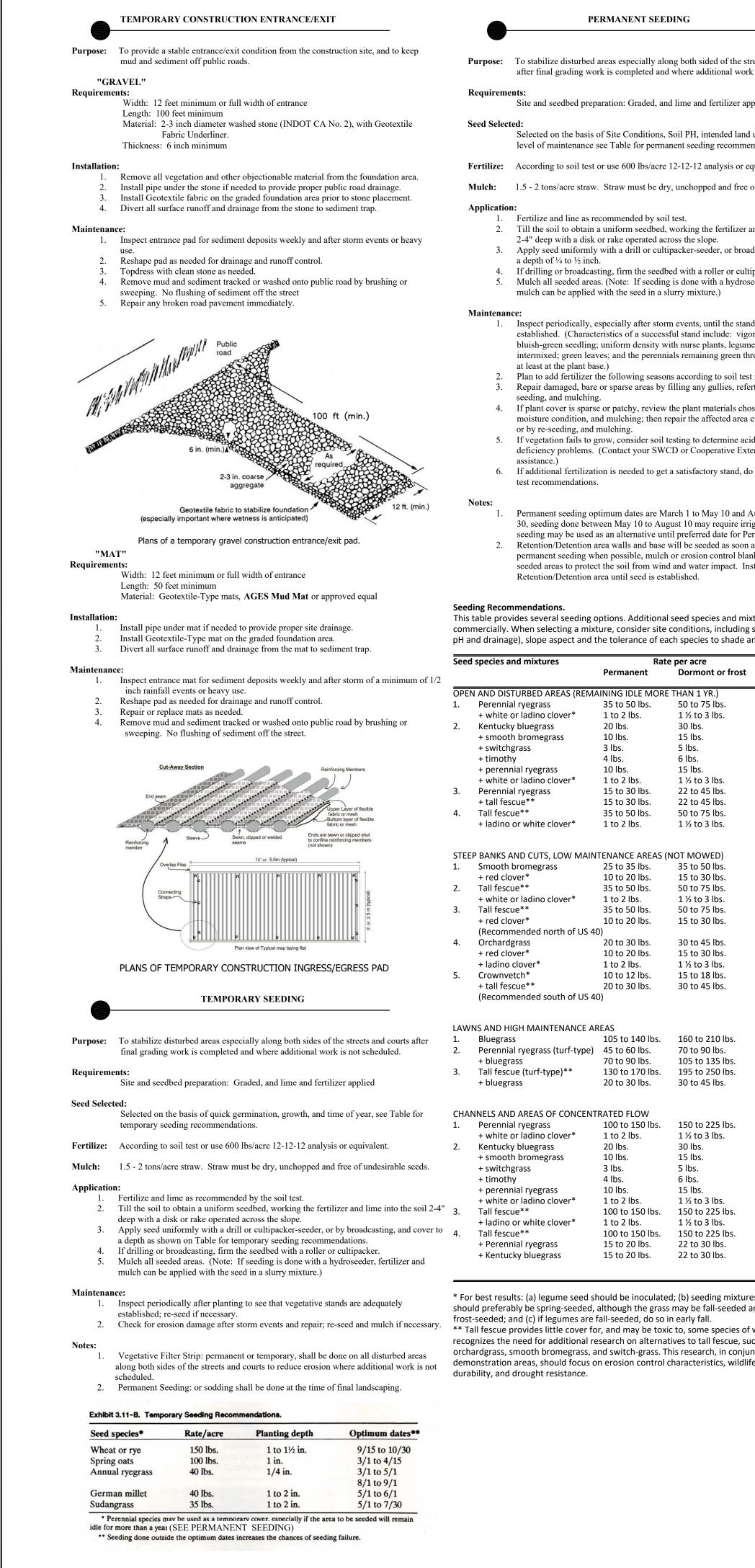


HANDICAP RAMP NOT TO SCALE

> No. 18376 -.-STATE OF Lary & Tonerga

TORRENGA ENGINEERING, INC. Consulting engineers & land surveyors 907 ridge road, munster, indiana 46321	Tel. No.: (219) 836–8918
COMMUNITY RESOURCES, INC. PHASE TWO	STANDARD DETAILS & SPECIFICATIONS
11-29-2021 11-16-2021 10-21-2021	DATE: 09-24-2021
CLIENT: Community Resrouces, Inc. 905 Ridge Road Munster, Indiana 46321 JOB NO: 2021-5032	SCALE: NTS
SHEET C-5.2	





		DOR	MANT AND F	ROST SEEDING		EROSION CONTROL BLANKET (SURFACE-APPLIED)
e streets and courts	Purpo	 To provide early germa To reduce sediment run 	noff to downstre	stabilization in the spring. am areas.	Purpose:	To prevent erosion by protecting the soil from rainfall impact, overland water flow, concentrated runoff, or wind. To conserve moisture and increase seed germination and seedling growth.
vork is not scheduled.		 To repair previous seed ements: Site and seedbed prepa 	-	lime and fertilizer applied.	Requireme	Material: Either an organic (straw, excelsior, woven paper, coconut, fiber, etc.) or a synthetic mulch incorporated into a polypropylene or similar netting material. It may
and use, and expected	Seed Se		f Site Conditior	s, Soil PH, intended land use, and expected level		be biodegradable, photodegradable or permanent. North American Green or approved equal. Anchoring: Use of staples or stakes to prevent movement of displacement.
mendations.	Fertiliz			t or frost seeding recommendations. ps/acre 12-12-12 analysis or equivalent.	Installation	n: Grade the site as specified in the construction plan.
or equivalent. ree of undesirable seeds.	Applic	ation:			2. 3.	Add topsoil where appropriate. Prepare the seedbed, fertilize and seed the area immediately after grading.
er and lime into the soil		temperatures are too lo	w for germinati	manent seeding application at a time when soil on to occur (less than 50 °F) Frost seeding is a cation in early spring when soils are in the	4. 5.	Following manufacture's directions, lay the blankets on the seeded area such that they are in continuous contact with the soil and that the upslope or upstream ones overlap the lower ones by at least 8 inches. Tuck the uppermost edge of the upper blankets into a check slot (slit trench), backfill
roadcasting, and cover to	For Do	rmant Seeding: (Seeding da 1. Site preparation and m		b. 28) Ione months ahead of actual seeding, apply mulch	6.	with the soil, and tamp down. Anchor the blankets as specified by the manufacturer by driving 6-8 in. metal staples into the ground in a pattern determined by the site conditions.
cultipacker. roseeder, fertilizer and		 upon completion of gra Broadcast fertilizer as Broadcast seeding on t 	iding (Practice 3 recommended b op of the mulch e preparation oc	.15)	Maintenar 1. 2.	
tand is successfully vigorous dark green or sumes, and grasses well a throughout the summer,		 Seeding: (Seeding dates: Broadcast fertilizer as Select an appropriate s 	Feb. 28 - Mar. recommended b eed species or n		3.	re-seed the area, and re-lay and staple the blanket. After vegetative establishment, check the treated area periodically.
test recommendations. refertilizing, over- or re-		cover at the rate shown				AMERICAN GREEN OR APPROVED EQUAL)
chosen, soil fertility,	Mainte			r equivalent fertilizer between Apr. 15 and May	/	MANUFACTURER SPECIFICATIONS
rea either by over-seeding acidity or nutrient		2. Re-seed and mulch any results, re-seed within	areas that have	inadequate cover by mid- to late April. For best ed dates shown for temporary seeding or for		RADE
Extension office for		permanent seeding.				
, do so according to soil		Temporary Dorma	ant or Frost Se	eding Recommendations.		TOPSOIL TO BE FERTILIZED AND SEEDED
nd August 10 to September		Seed specie		Rate per acre	×	
irrigation. Temporary r Permanent Seeding. oon as possible using		Wheat or ry Spring oats Annual ryeg		150 lbs. 150 lbs. 60 lbs.		EROSION CONTROL BLANKET DETAIL
blankets are to be used on Install silt fences around		*Perennial species	may be used	as temporary cover, especially		(30 ¹² °)
		if the area to be se		ain idle for more than a year.		
mixtures are available ing soil properties (e.g., soil			MULCH	ING		
le and droughtiness.	Purp	ose: To promote seed gern and protecting the so		edling growth, a temporary surface stabilization,		
Optimum soil pH st	Requ	irements:		-		
5.6 to 7.0	-	Material: Straw, hay and commo Comments:		excelsior, see table for Mulch Materials, Rates,		
5.5 to 7.5				lacement by wind or water, see table for Mulch		
	Appl	Anchoring Methods.			(15 ⁶ CM)	
5.6 to 7.0		 Apply mulch at the r Spread uniformly by 25% of the surface v 	hand, hay fork,	te. mulch blower, or hydromulcher with no more than	<u></u>	EROSION CONTROL BLANKET DETAIL
5.5 to 7.5		 Anchor immediately - Crimp with mulch 	if using straw of anchoring tool.	hay, using one of the folliwing methods:		
		 Hydromulch with s Apply liquid tackif Cover with netting 	ier.			6' (1.8m)
5.5 to 7.5 5.5 to 7.5	Main			or movement of mulch or for erosion. resent, repair the surface, then re-seed, re-mulch.		
5.5 to 7.5				n is firmly established.		3.3' (1.0m)
5.6 to 7.0		Exhibit 3.15-B. Mulch Mate	erials, Rates, and Rate	Comments.		1.15 STAPLES PER SQ. YD. (1.35 STAPLES PER SQ. M)
		Straw or hay	11/2-2	Should be dry, unchopped, free of		STAPLE PATTERN DETAIL
5.6 to 7.0			tons/acre	undesirable seeds. Spread by hand or machine. Must be crimped or anchored (see		GRASS LINED CHANNEL
		Wood fiber or	1 ton	Exhibit 3.15-D). Apply with a hydromulcher and use	Purpo	se: To carry concentrated runoff from a small watershed area to a stable outlet without
5.5 to 7.0 5.6 to 7.0		cellulose Long fiber wood	/acre 1/2-3/4	with tacking agent. Anchor in areas subject to wind.	Doqui	damage from erosion or flooding. rements:
5.6 to 7.5		(excelsior)	ton/acre		-	See Channel Cross Section Detail (Sheet C-6.1)
		Exhibit 3.15-D. Mulch Anch	oring Methods.		Seed:	Turf type tall fescue300-350 lbs/acreWheat1/2 bushel/acre
5.6 to 7.0	1	Anchoring method Mulch anchoring tool <u>OF</u>		How to apply punch the straw or hay into the soil 2-4 in.	Fertili	izer: Fertilize according to soil test. If testing is not done, use 600 lbs./acre of 12-12-12
5.5 to 7.5		Farm disk (dull, serrated, and set straight) Cleating with dozer track		machinery on the contour of the slope.		analysis or equivalent fertilizer.
		Wood hydromulch fibers	the track	ozer up and down slope, not across, or else (s will form rills. tons/acre using a hydromulcher at a rate	Erosic Install	on Control Blanket: North American Green or equal lation:
5.5 to 7.5			of 750 ll to contr	s./acre with a tacking agent (or according actor specifications). Do not use in areas		1. Remove all vegetation, brush, trees and other debris from the channel area and dispose of property.
5.5 to 7.5		Asphalt emulsion	Emulsifie	ntrated flow. I asphalt should conform to the require- f ASTM Spec. #977. Apply with suitable		 Excavate and shape the channel to dimensions shown on the plans, dispose of excess soil so surface can enter the channel freely. Add topsoil where the soils exposed during excavation would be unsuitable for grass
			equipme	ent at a rate of 0.05 gal./sq. yd. Do not use of concentrated flow.		species.4. Till the soil to obtain uniform seedbed, working the fertilizer into the soil.5. Sod or apply seed uniformly with a drill or cultipacker-seeder or by broadcasting, and
tures containing legumes		Synthetic tackifier, binder or soil stabilizer		ording to manufacturer's recommendation.		cover to a depth of 1/4 inch.Blanket sides and bottom of channel with Erosion Control Blanket North American
ed and the legume		Biodegradable netting (polypropylene or simi- lar material)*	Follow 1	r mulch and staple with 6-8 in. wire staples. nanufacturer's recommendations for in- n. Best suited to slope application.	Maint	Green or equal.
s of wildlife. The IDNR , such as buffalograss, njunction with		* Install the netting immedi	ately after applyin	g the mulch. In areas of concentrated water flow, lay , lay it either parallel or perpendicular to direction of		1. Inspect the channel following storm events during and after vegetative establishment, repair and reseed as needed.
dlife toxicity, turf		flow. Edges of adjacent netting	strips should over	lap 4-6 in., with the strip on the upgrade side of any site specific, so follow manufacturer's directions.		 Check the channel outlet for blockage, sediment and make repairs. Remove significant sediment and debris from the channel to maintain design cross section and grade.
				P. TORAS		OSION BLANKET
			N S S	o. 18376	(NORTH AM S150 OR E	IERICAN GREEN QUAL) SEED & EROSION E (NORTH AMERICAN
						3:1 S150 OR EQUAL)
				ONAL ENTITIE		
			1	$\cap \cap$		

GRASS-LINED CHANNEL

NOT TO SCALE

Lary P. Ibuerga

<form><form><form><form></form></form></form></form>	<form><form><form><form><form></form></form></form></form></form>	<form><form><form><form><form></form></form></form></form></form>	SELF-MONITORING PROGRAM		
<form><form><form><form></form></form></form></form>	<form><form><form></form></form></form>	<form><form><form><form><form><form><form></form></form></form></form></form></form></form>			
<form><form><form><form></form></form></form></form>	<form><form></form></form>	<form><form><form><form><form> d. Buike of correct series incomended and corrected. d. Buike of correct series in the series defined that is in the operation of the series of the operation of the series of the operation of the series of the</form></form></form></form></form>	 of one (1) time per week and by the end of the next business day following each measurable storm event. 2. The evaluation must address the maintenance of existing storm water quality measures to ensure they are functioning properly and identify additional measures necessary to remain in compliance with all applicable statutes and rules. 3. Written evaluation reports must include: a. the name of individual performing the evaluation; b. the date of evaluation; 		
<section-header> ODDEDCORPORT DEDUCEDENCIA ADD MAINTERANCE LOC DEMOREDUCE DE CONSTRUCTION CONSTRUCTION TOTO DE CONSTRUCTION CONSTRUCTION TOTO DE CONSTRUCTION CONSTRUCTION CONSTRUCTION TOTO DE CONSTRUCTION CONSTRUCTION TOTO DE CONSTRUCTION CONSTRUCTION CONSTRUCTION TOTO DE CONSTRUCTION CONSTRUCTION<td><form> <section-header> OPTOLUCION DIFENSION CONCURNENCE UNABUNE CONCURNED CONCURN</section-header></form></td><td><form> OCHEMICIAN DIFFUSION CONTRACT UNDER UNDER CONTRACT States of the state of the states of th</form></td><td> d. details of corrective actions recommended and completed. 4. All evaluation reports for the project site must be made available to the MS4 Operator or other designated entity within forty-eight (48) hours of a request. 5. Evaluation reports must be maintained for a period of two (2) years from date of NOT. </td><td>INC.</td><td>rrenga.com</td></section-header>	<form> <section-header> OPTOLUCION DIFENSION CONCURNENCE UNABUNE CONCURNED CONCURN</section-header></form>	<form> OCHEMICIAN DIFFUSION CONTRACT UNDER UNDER CONTRACT States of the state of the states of th</form>	 d. details of corrective actions recommended and completed. 4. All evaluation reports for the project site must be made available to the MS4 Operator or other designated entity within forty-eight (48) hours of a request. 5. Evaluation reports must be maintained for a period of two (2) years from date of NOT. 	INC.	rrenga.com
<section-header> ODDEDCEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDED</section-header>	<form> OUCLOUGNE IN INSPECTION ADDITIONATION CONCERNING The Concentration Property Owner and the concentration of a conce</form>	<section-header> ODDITUDUSTION DEFINING Provide and provide</section-header>	Project: Inspected by:	, ORS	321 ww.to
<text></text>	<form></form>	<form></form>	CONSTRUCTION SITE INSPECTION AND MAINTENANCE LOG (To be Completed by Property Owner or Agent)	NG VEV	14
eliminates the discharge of spilled material to the drainage system or watercourses.	azardous Waste Products:Other Waste Products:• Petroleum Products,• Soil stabilizers/binders• Asphalt Products,• Dust palliatives• Concrete Curing Compounds,• Herbicides• Pesticides,• Growth inhibitors• Acids,• Fertilizers• Paints,• Deicing/anti-icing chemicals• Stains,• Fuels• Wood Preservatives,• Other petroleum distillates	 azardous Waste Products. Petroleum Products, Asphalt Products, Concrete Curing Compounds, Pesticides, Pesticides, Pesticides, Pesticides, Pesticides, Pertilizers binders Dust palliatives Growth inhibitors Fertilizers Deciong/anti-cing chemicals Fuels Lubricants Other Parts 110, 117, 261, or 302 Differentials and substances to storm water in 40 CFR Parts 110, 117, 261, or 302 Differentials and substances to storm water runoff: The contractors and subcontractors shall be for explored materials shall be done in accordance with Federal, State and Local waste disposal of spilled materials shall be done in accordance with Federal, State and Local waste disposal regulations. All disposals of spilled materials shall be done in accordance with Federal, State and Local waste disposal regulations. All be oncentry on sylls that may occur of liquid or dry materials. Cleanup of sediments that have been tracked by vehicles or have been transported by wind or storm water about the site or onto nearby roadways. Epose Practices: The Vent that a large spill occurs (that which requires extensive cleanup actions, refer to M By Sheets for information), the following procedures shall be followed to minimize 	<text></text>	NGA ENGI	907 RIDGE ROAD, MUNSTER, INDI No.: (219) 836–8918

nel to maintain design cross - SEED & EROSION BLANKET

(NORTH AMERICAN GREEN S150 OR EQUAL)

e. The spill area shall be isolated from all surrounding areas with absorbent pads, booms, and pillows designed for the use of spill containment and absorption. f. The spill kits that are required to be on site shall be utilized.

c. Notify: for local contact, the Lake County Emergency Management at Phone:

if the material enters any nearby storm sewer structures or open waters.

d. Notify: for local contact, the Lake County Emergency Management at Phone:

219-755-3549, and/or Fax: 219-755-3559; the Indiana Emergency Response

219-755-3549, and/or Fax: 219-755-3559; the Federal Emergency Spill Hotline at

1-800-424-8802 within 2 hours for spills above the reported allowable quantity, or

g. Emergency Response teams shall be contacted for extensive spills above and beyond the containment by available methods.

Waste Disposal Management Practices:

Hotline at 1-888-233-7745.

All solid waste associated with the construction and development of this project shall be removed and disposed of properly with in all applicable state and federal laws associated with the waste generated. Developer and/or contractor are to provide on-site dumpsters, rented from a licensed solid waste management company, to ensure waste is collected and disposed of properly. All trash and construction debris from the site will be deposited in a dumpster. No construction waste will be buried onsite. All personnel will be instructed regarding the correct procedure for waste disposal.

- a. Select a designated waste collection area onsite. b. Provide an adequate number of containers with lids or covers throughout the site, and frequent pickups
- Provide immediate cleanup of any container spills. d. Make sure that construction waste is collected, removed, and disposed of only at authorized areas.

SHEET

C-7.0

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FABRIC DROP INLET PROTECTION

Purpose: To capture sediment at the entrance to a storm drain, allowing full use of the storm drain system during the construction period.

uirements:	
Contributing Area:	1 acre maximum.
Capacity:	Runoff from 2-yr, 24-hr. Storm without bypass flow.
Fabric material:	Geotextile fabric for filtration.
Height of fabric:	1 to 1-1/2 ft., measured from top of inlet.
Approach:	Pool area flat (less than 1 % slope) with sediment storage of
	945 cu.ft./acre disturbed.
Stability:	Structure must withstand 1-1/2 ft. head of water and sediment
	without collapsing or undercutting.
Support posts:	Steel fence post or 2 x 2 in. or 2 x 4 in. hard wood post, 3 ft. min.
	length, 3 ft. max. spacing; top of frame support recommended.
	Cross bracing tops of posts to opposite corners greatly

strengthens support.

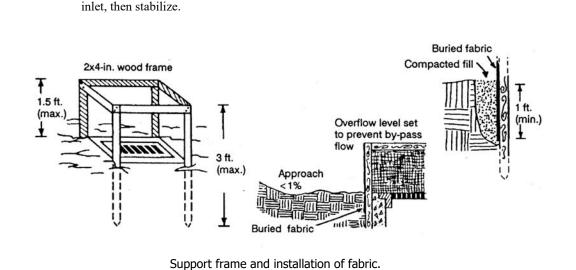
Installation

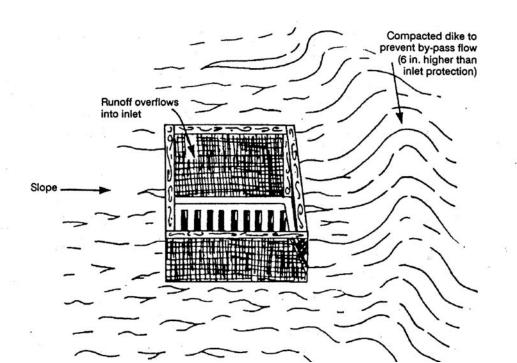
Require

- To prevent runoff from bypassing the inlet, set top of the fabric at least 6" below the downslope ground elevation, or build a temporary dike (compacted to 6" higher than the fabric) on the low side of the inlet. (See Exhibit 3.52-C).
- 2. Cut the fabric from a single roll to eliminate joints. (Provide at least 2' of overlap if a joint is needed)
- Bury the bottom of the fabric at least 1 ft. deep, backfill, and compact the backfill (See Exhibit 3.52-B).
- Space the support posts evenly against the inlet perimeter a maximum of 3 ft. apart, and drive the about 1-1/2 ft. into the ground. (Overflow must fall directly into the inlet and not on unprotected soil.

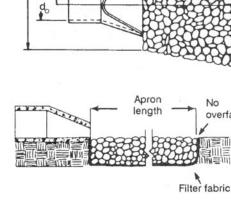
Maintenance

- Inspect the fabric barrier after storm events, and make needed repairs immediately.
- Remove sediment from the pool area to provide storage for the next storm. Avoid damaging or undercutting the fabric during sediment removal.
- When the contributing drainage area has been stabilized, remove and properly dispose of all construction material and sediment, grade area to the elevation on the top of the





Prevent Bypass flow with temporary dike downslope of inlet.



Requirements:

Installation:

Maintenance:

Subgrade Replacement:

Filter Placement:

RipRap Replacement:

Pipe outlet aprons for a channel (left) that is not well defined and (right) that is well defined.

especially down stream or down slope.

substituted for this practice.

Apron at zero grad



STEP 1. EVALUATE THE SITE.

Before construction, evaluate the entire site, marking for protection any important trees and associated rooting zones, unique areas to be preserved, on-site septic system absorption fields, and vegetation suitable for filter strips, especially in perimeter areas

- Identify Vegetation To Be Saved. Select and identify the trees, shrubs, and other vegetation that you want to save (see "Vegetative Filter Strips" under Step 2 below).
- Protect Trees and Sensitive Areas. To prevent root damage, do not grade, burn, place soil piles, or park vehicles near trees or in areas marked for
- Place plastic mesh or snow fence barriers around the tree's dripline to protect the area below their branches.
- Place a physical barrier, such as plastic fencing, around the area designated for a septic system absorption field (if applicable)
- STEP 2. INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS.

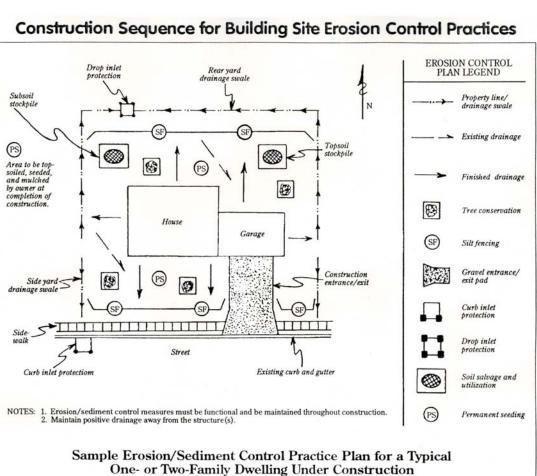
Identify the areas where sediment-laden runoff could leave the construction site, and install perimeter controls to minimize the potential for off-site sedimentation. It's import tant that perimeter controls are in place before any other earth-moving activities begin.

Protect Down-Slope Areas.

- With Vegetative Filter Strips ■ On slopes of less than 6 percent, preserve a 20- to 30-foot wide vegetative buffer strip around the perimeter of the property, and use it as a filter strip for trapping sediment.
- Do not mow filter strip vegetation shorter than 4 inches. With Silt Fence
- Use silt fencing along the perimeter of the lot's downslope side(s) to trap sedimen

Install Gravel Drive. Restrict all lot access to this drive to prevent vehicles from

- tracking mud onto roadways Protect Storm Sewer Inlets. Protect nearby storm sewer curb inlets with stone-filled or
- gravel-filled geotextile bags or equivalen measures before disturbing soil.
- Protect on-site storm sewer drop inlets with silt fence material , straw bales, or equivalent mea-sures before disturbing soil.



STEP 3. PREPARE THE SITE FOR CONSTRUCTION. STEP 4. BUILD THE STRUCTURE(S) AND Prepare the site for construction and for installation of utilities. Make sure all contracators (especially the excavating contractor) are aware of areas to be protected.

- Salvage and Stockpile the Topsoil/Subsoil. ■ Remove topsoil (typically the upper 4 to 6 inches of soil
- material) and stockpile. Remove subsoil and stockpile separately from the topsoil

ment barriers around the perimeter of the piles.

- Locate the stockpiles away from any downslope street, driveway, stream, lake, wetland, ditch, or drainageway.
- Immediately after stockpiling, temporary-seed the stock-

INSTALL THE UTILITIES. Construct the home and install the utilities; also install the sewage disposal system and drill the water well (if aple); then consider the following.

Install Downspout Extenders. ■ Although not required, downspout extenders are highly ended as a means of preventing lot erosion from

- roof runoff ■ Add the extenders as soon as the gutters and downspouts are installed
- piles with annual rye or winter wheat and/or place sedistreet, sidewalk, or a well vegetated area.



- FOR INDIVIDUAL LOT

NOTE: Erosion control measures shown on this detail are the responsibility of the developer. Each lot builder will be responsible for proper implementation of these items. The developer, as the permit holder is responsible to ensure these measures are in place.

CONTROL MEASURES.



- and after each storm event, making any needed repairs immediatel
- up any soil washed off-site.

- over rough-graded areas. ing contractor.
- is 2 inches tall
- bales of straw per 1,000 square feet.

- trol practices, such as: etated areas, allowing for maximum infiltration) Storm sewer inlet protection measures.

_	
Purpose:	To protect slopes, stream banks and channels, which are subject to erosion. Where run
	off velocity is great, at the outlet pipe of a detention basin, channel or culvert.

l	rements: Rock: Hard angular, weather-resistant and well graded stone, the largest pieces should not exceed two times the specified stone diameter.
	Thickness: 12" minimum or two times the specified stone diameter, which ever is greater.
	Filter: Under permanent riprap install geotextile fabric for stabilization and filtration

Remove brush, trees, stumps, and other debris. Excavate only deep enough for both filter and riprap.

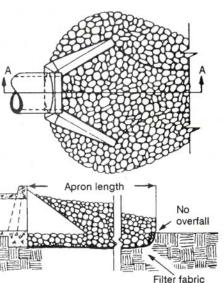
ROCK CHUTE

1. Place geotextile fabric on a smoothed foundation, overlap the edges at least 12 inches and secure with anchor pins spaced every 3 feet along the overlap. 2. If fabric is damaged, remove the riprap and repair damaged area by 12 inches.

Immediately after installing the filter, add the riprap to full thickness in one operation to the design elevation, and extend riprap to the top of the bank. Place smaller rock in voids to form a dense, uniform, well-graded mass. Blend the riprap smoothly to the surrounding grade. Stabilize all disturbed areas immediately following installation.

Inspect periodically for displaced rock material, slumping, and erosion at edges,

At owner's discretion, oulet protection & grade stabilization Scour Stop TM may be



STEP 5. MAINTAIN THE CONTROL PRACTICES. Maintain all erosion and sediment control practices until construction is completed and the lot is stabilized. Inspect the control practices a minimum of twice a week

Toward the end of each work day, sweep or scrape up any soil tracked onto roadways. Do not flush areas with water By the end of the next work day after a storm event, clean

STEP 6. REVEGETATE THE BUILDING SITE.

Immediately after all outside construction activities are completed, stabilize the lot with sod, seed, and/or mulch.

Redistribute the Stockpiled Subsoil and Topsoil.

Spread the stockpiled subsoil to rough grade. Spread the stockpiled topsoil to a depth of 4 to 6 inches

Fertilize and lime according to soil test results or recommendations of a seed supplier or a professional landscap-

Seed or Sod Bare Areas.

 Contact local seed suppliers or professional landscaping contractors for recommended seeding mixtures and rate Follow recommendations of a professional landscaping contractor for installation of sod. ■ Water newly seeded/sodded areas every day or two to

keep the soil moist. Less watering is needed once grass Mulch Newly Seeded Areas. Spread straw mulch on newly seeded areas, using 1¹/₂ to 2

On flat or gently sloping land, anchor the mulch by crimping it 2 to 4 inches into the soil. On steep slopes, anchor he mulch with netting or tackifiers. An alternative to anchored mulch would be the use of erosion control blan-

STEP 7. REMOVE REMAINING TEMPORARY

Once the sod and/or vegetation is well established, remove any remaining temporary erosion and sediment con-Downspout extenders. (Or shorten to outlet onto the veg-



SILT FENCE	
To retain sediment from small sloping disturbed areas by reducing the veloci	ty of sheet

Requirements 8" minimum depth, flat bottom or v-shaped, filled with compacted soil Trench or gravel to bury lower portion of support wire and/or fence fabric. 2" x 2" hardwood posts set at lease 1 foot deep. Support posts: Spacing of Posts: 8-foot maximum if fence supported by wire, otherwise 6 foot for extra strength fabric without wire backing. Fence height: A 3 feet minimum or high enough so depth of impounded water does not

exceed 1.5 feet at any point along fence line. 14 gauge, 6" mesh wire fence. (needed if using standard-strength fabric Support wire : (optional) Fence Fabric: Woven or non-woven Geotextile fabric with specified filtering efficiency and tensile strength and containing UV inhibitors and stabilizers to

ensure 6 months minimum life at temperatures 0-120 degrees F.

Installatio Along the entire intended fence line, maintain contour as much as possible, dig an 8" deep flat bottom or v-shaped trench.

2. On the downslope side of the trench, drive the post at least 1 foot into the ground. (Note: If the fence has pre-attached posts or stakes, drive them deep enough so the fabric is satisfactorily in the trench per step 6)

- Fasten support wire fence to the upslope side of the posts, extending it 8" into trench. (use only if required by manufacturer)
- 4. Run a continuous length of Geotextile fabric along upslope side of posts. 5. If a joint is necessary, nail the overlap to the nearest post with a wood lath.
- 6. Place the bottom 1' of fabric in the 8" deep trench, extending the remaining 4" of fabric

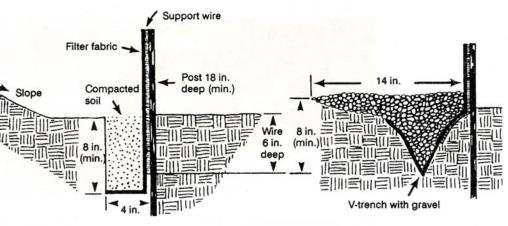
toward the upslope side. 7. Backfill the trench with compacted earth.

Maintenance

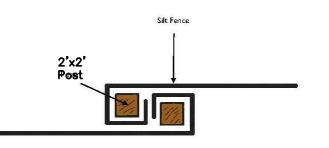
Purpose:

Inspect silt fence periodically and after each storm event.

- If fence fabric tears, starts to decompose, or becomes ineffective, replace the affected 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 clean out.
- After watershed has been stabilized, remove fence and sediment deposits, bring the disturbed area to grade and stabilize.



Detailed example of silt fence installation (showing flat-bottom and v-shaped trenches).







Purpose: To prevent excessive sediment from entering storm sewers at inlet/catch basin, allowing full use of the storm drain system during the construction period.

Requirements: Steel Frame with top width-length dimensions such that the basket fits into the inlet and/or catch basin (circular and/or rectangular), and a replaceable Geotextile fabric bag attached with a steel band locking cap that is suspended from the frame, Catch -all Inlet Protector Hancor Flo-Gard bt Nyloplast or approved equal.

Installation: Install protection to existing and newly installed inlet/catch basin in a new development before land disturbing activities begin in a stabilized area. Remove the grate, and place the basket assembly under the grate on the lip of the

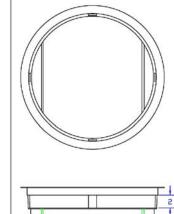
structure frame.

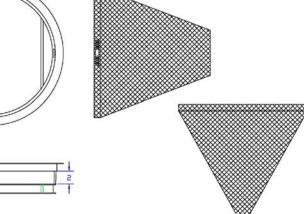
Replace the inlet/catch basin grate.

Maintenance: Inspect weekly during construction and after each storm event of a minimum of 1/2inch rainfall, and remove built-up sediment.

Replace bag every six (6) months.

Replace the Geotextile fabric bag if there is a hole and/or won't pass water. Replace the Geotextile fabric bag after any oil, gasoline or solvent spill.





GENERAL NOTES FRAME: Top flange fabricated from 1¼*x1¼*x1½* angle. Base rim fabricated from 1½*x1½*x34* channel. Handles and suspension brackets fabricated from 1¼*x14* flat stock. All steel conforming to ASTM-A36. SEDIMENT BAG: Bag fabricated from 4 oz./sq.yd. non-woven polypropylene geotextile reinforced with polyester mesh. Bag secured to base rim with a stabless steel band and lock tainless steel band and lock. TYPICAL INLET/CATCH BASIN PROTECTION INSERT DETAIL

:	To reduce the discharge of pollutants associated with
	through consolidation of solids and retention of liquids.

Requirements:

- karst features, or storm drains/manmade conveyance systems.
- 2.) Locate concrete washout systems in relatively flat areas with established vegetative cover and do not receive runoff from adjacent land areas.
- 3.) Locate in areas that provide easy access for concrete trucks and other construction
- equipment. 4.) Locate away from other construction traffic to reduce the potential for damage to the
- system. 5.) Minimum of ten millimeter polyethylene sheeting that is free of holes, tears, and other
- defects. The sheeting selected should be of an appropriate size to fit the washout system without seams or overlap of the lining. Signage. 6.)
- 7.) Orange safety fencing or equivalent. Straw bales, sandbags (bags should be ultraviolet-stabilized geotextile fabric), soil 8.) material, or other appropriate materials that can be used to construct a containment system (above grade systems).

Purpose

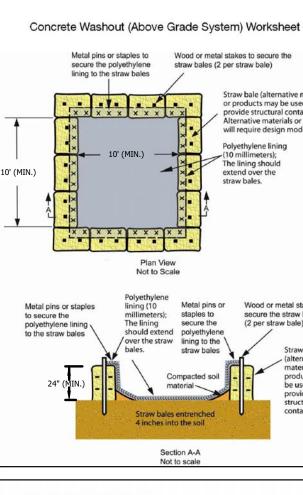
Dependent upon the type of system, either excavate the pit or install the containment 1.)

- 2.) A base shall be constructed and prepared that is free of rocks and other debris that may cause tears or punctures in the polyethylene lining.
- entire excavation. The lining for bermed systems should be installed over the pooling area with enough material to extend the lining over the berm or containment system. The lining
- should be secured with pins, staples, or other fasteners. 4.) Place flags, safety fencing, or equivalent to provide a barrier to construction equipment and other traffic.
- 5.) Place a non-collapsing, non-water holding cover over the washout facility prior to a predicted rainfall event to prevent accumulation of water and possible overflow of the system (optional). Install signage that identifies concrete washout areas.
- Post signs directing contractors and suppliers to designated locations. 7.) Maintenance

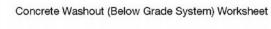
1.) Inspect daily and after each storm event. 2.)

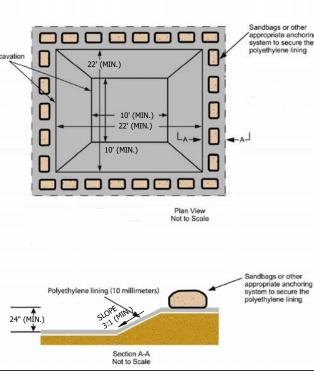
- containment system
- 3.) Inspect the system for leaks, spills, and tracking of soil by equipment. Inspect the polyethylene lining for failure, including tears and punctures. 4.) Once concrete wastes harden, remove and dispose of the material. 5.) Excess concrete should be removed when the washout system reaches 50 percent of the 6.)
- be initiated to clean the structure. Prefabricated systems should also utilize this criterion, unless the manufacturer has alternate specifications. 7.) Upon removal of the solids, inspect the structure. Repair the structure as needed or
- construct a new system. Dispose of all concrete in a legal manner. Reuse the material on site, recycle, or haul 8.) the material to an approved construction/demolition landfill site. Recycling of material is encouraged. The waste material can be used for multiple applications including but not
- limited to roadbeds and building. The availability for recycling should be checked locally. 9.) The plastic liner should be replaced after every cleaning; the removal of material will usually damage the lining. 10.) The concrete washout system should be repaired or enlarged as necessary to maintain
- capacity for concrete waste. 11.) Concrete washout systems are designed to promote evaporation. However, if the liquids do not evaporate and the system is near capacity it may be necessary to vacuum or remove
- the liquids and dispose of them in an acceptable method. Disposal may be allowed at the local sanitary sewer authority provided their National Pollutant Discharge Elimination System permits allow for acceptance of this material. Another option would be to utilize a secondary containment system or basin for further dewatering. 12.) Prefabricated units are often pumped and the company supplying the unit provides this service
- 13.) Inspect construction activities on a regular basis to ensure suppliers, contractors, and others are utilizing designated washout areas. If concrete waste is being disposed of improperly, identify the violators and take appropriate action. 14.) When concrete washout systems are no longer required, the concrete washout systems shall be closed. Dispose of all hardened concrete and other materials used to construct the
- 15.) Holes, depressions and other land disturbances associated with the system should be backfilled, graded, and stabilized.

CONCRETE WASHOUT



CONCRETE WASHOUT





CONCRETE WASHOUT

concrete waste

1.) Locate concrete washout systems at least 50 feet from any creeks, wetlands, ditches,

3.) Install the polyethylene lining. For excavated systems, the lining should extend over the

Inspect the integrity of the overall structure including, where applicable, the

design capacity. Use of the system should be discontinued until appropriate measures can

Wood or metal stakes to secure the straw bales (2 per straw bale) Straw bale (alternative mate r products may be used to provide structural containment.
 Alternative materials or products will require design modification. he lining should extend over the straw bales.

> Wood or metal stakes to secure the straw bales (2 per straw bale) Straw bale aterials or be used to provide structural

FILTER TUBE / FILTER SOCK

Purpose: To trap sediment by intercepting runoff and reducing the velocity of sheet flow or concentrated flow. Filter socks capture sediment by ponding water to allow settling and deposition.

Requirements: Materials: Geotextile fabric sock or a non-biodegradable netting matrix.

Permeable Materials:

- Compost / Mulch: Feedstocks may include, but are not limited to, well-composted vegetable matter, leaves, yard trimmings, food scraps, composted manures, paper fiber, wood bark, Class A biosolids (as defined in federal regulations 40 CFR Part 503), or any combination thereof.
 - Compost shall be produced using an aerobic composting process meeting CFR 503 Regulations, including time and temperature data indicating effective weed seed, pathogen and insect larvae kill.
- Compost shall be well decomposed, stable, and weed free. 4. Variable particle size with maximum dimensions of two inches in length, one-half inch in width, and one-half inch in depth.
- Refuse free (less than one percent by weight).
- Free of any contaminants and materials toxic to plant growth. Inert materials not to exceed one percent by dry weight.
- pH of 5.5 to 8.0.
- Carbon-nitrogen ratio not to exceed 100. 10. Moisture content not to exceed 45 percent by dry weight.

Aggregate 1. INDOT CA No. 5 or No. 8 aggregate.

Straw, Excelsior, etc.:

1. Premanufactured.

Anchoring Method: 2" x 2" hardwood or steel posts.

Bonding Agents (optional):

Tackifiers, flocculants, or microbial additives may be used to remove sediment and/or additional pollutants from storm water runoff. (All additives combined with compost materials should be tested for physical results at a certified erosion and sediment control laboratory and biologically tested for elevated beneficial microorganisms at a United States Compost Council, Seal of Testing Assurance approved testing laboratory.)

Installation

- 1. Lay out the location of the filter sock barrier 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 filter sock barrier up slope such that the barrier end terminates at a higher
- elevation than the top of the filter sock barrier at its lowest point. Excavate a trench with a depth and width equal to at least one-fourth the diameter of the filter sock or follow the manufacturer's recommendations. Where applicable, the trench may also be excavated upslope of a curb or sidewalk. Placing product against the curb or sidewalk will provide additional stability and resistance to surface flow.
- Construct the filter sock or utilize a pre-manufactured product. For compost use a pneumatic blower or similar device to provide adequate and consistent fill in the sock. (Seed or sod may be applied at the time of installation for permanent applications.)
- 4. If more than one sock is placed in a row, the socks should be overlapped; not abutted. Anchor the filter sock barrier in place by driving posts through the barrier and into the underlying soil material. Posts should be spaced no more than five feet apart and driven through the middle of the sock. The posts should be driven a minimum of 18 inches deep into the soil. The stake should be flush with the top of the sock.
- 6. Backfill the trench with excavated soil placed against the filter sock barrier to ground level on the down-slope side and to two inches above the ground level on the up-slope side of the filter sock barrier. Compact the fill material to keep it in place.

Options for installation:

- These products may be placed in a series on the contour at intervals on a slope. Follow the manufacturer's recommendations for this application, including spacing
- and diameter of product. This application will require careful layout and installation. Alternatives, including immediate stabilization, should be considered as the first alternative. This application also requires extensive maintenance and daily inspections.
- Typical applications include:
- 1. Slopes less than 20 percent (5:1). Place socks at a maximum interval of 20
- feet (a closer spacing is more effective). Slopes between 20 percent (5:1) and less than 50 percent (2:1). Place socks at
- a maximum interval of 15 feet (a closer spacing is more effective). Slopes greater than 50 percent (2:1). Place socks at a maximum interval of 10 feet (a closer spacing is more effective).
- Maintenance: Inspect within 24 hours of a rain event and at least once every seven calender days. When installed in series at intervals on a slope, inspection should be done daily. Remove accumulated sediment when it reaches one-quarter the height of the filter sock.
- Inspect to ensure that the sock is maintaining its integrity and producing adequate flow. Repair eroded and damaged areas. If ponding becomes excessive, socks should be removed and either reconstructed or a new
- product installed. Reseed, if applicable.
- If the filter sock is not designed as a permanent filter or part of the natural landscape and the contributing drainage area has been stabilized, use a blade or knife to cut open sock and use a bulldozer, loader, rake, or other device to incorporate the organic material into the soil, or spread it over the top of the soil surface for final seeding. Remove and dispose of sock if necessary.

TOPSOIL SALVAGE & UTILIZATION

Purpose: To provide a method of preserving topsoil for use in establishing vegetation to achieve final site stabilization.

Specifications:

- Free of stumps, rock, and construction debris.
- Stockpile covered with vegetation or a tarp.
- Stockpile outside rooting zone of trees to be protected.

Application

- Salvaging and Stockpiling Topsoil
 - Determine depth and suitability of topsoil at site. Prior to stripping topsoil, install any site-specific down slope measures
 - needed to control storm water runoff and sedimentation.
 - Remove soil material no deeper than the "surface soil".
 - Stockpile the material in accessible locations that will not interfere with other construction activities or block drainage. Stockpiled soil should be temporarily seeded and surrounded by a sediment control measure.

Spreading Topsoil

- Prior to applying topsoil, grade the subsoil and roughen the top three to four inches by disking
- Apply topsoil evenly to a depth of a minimum of four inches, then compact slightly to improve contact with the subsoil.
- Do not apply topsoil when the site is wet, muddy, or frozen. After spreading the topsoil, grade and stabilize the site.

Maintenance

Inspect daily Check for damage to perimeter barrier; repair immediately. Check for erosion or damage to newly spread topsoil; repair immediately and revegetate

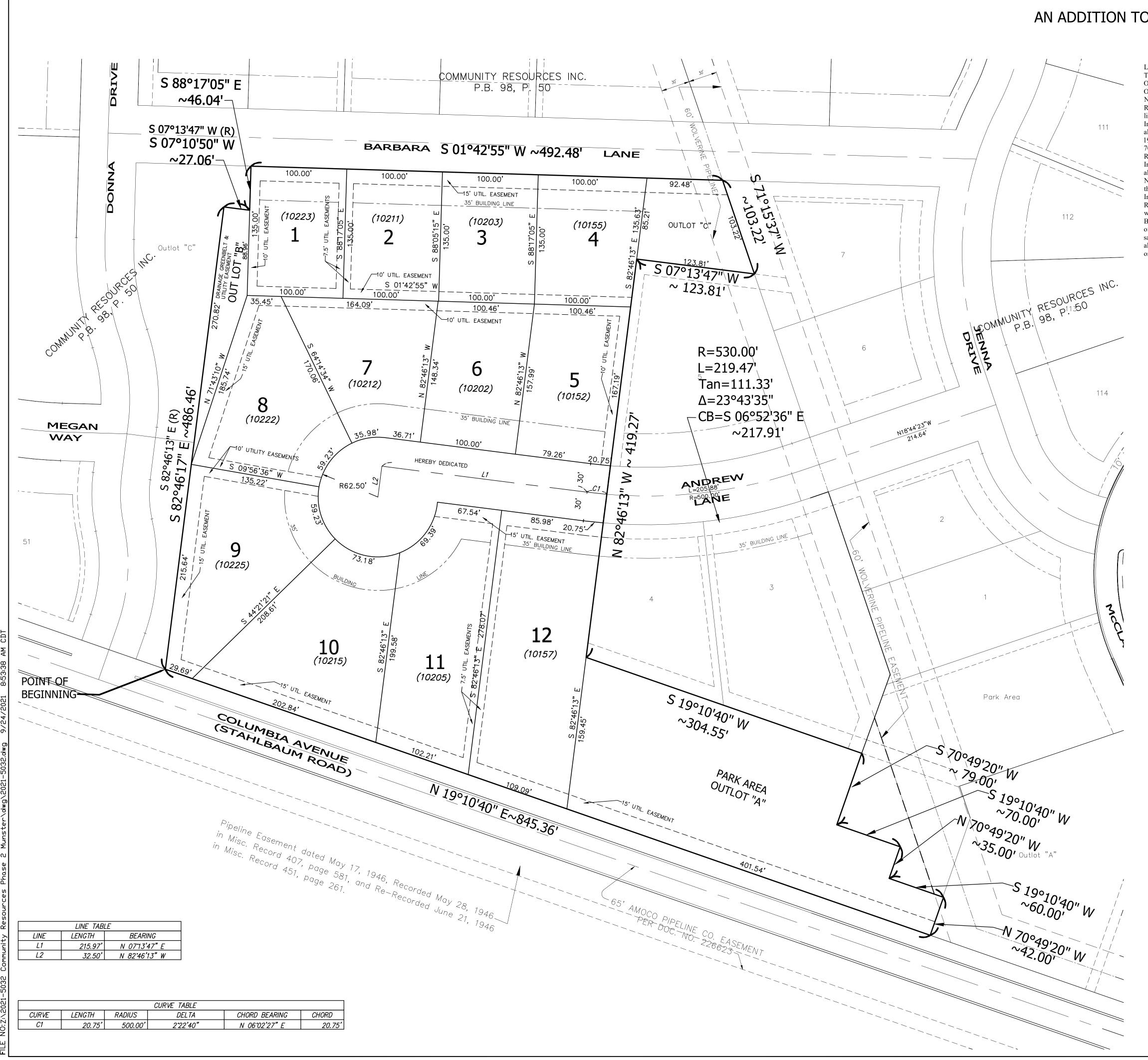
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 - ш'n SHEET

C-7.1

Typically the darker, friable, loamy surface layer of soil found immediately below vegetation.

Storage Area

- Surrounded by a sediment barrier or sediment filter.



COMMUNITY RESOURCES, INC. PHASE TWO AN ADDITION TO THE TOWN OF MUNSTER, LAKE COUNTY, INDIANA

LEGAL DESCRIPTION:

That part of Fractional Section 36, Township 36 North, Range 10 West of the Second Principal Meridian and part of Outlot "C" in Community Resources, Inc. an Addition to the Town of Munster as shown in Plat Book 98, page 50 in the Office of the Recorder of Lake County, Indiana, more particularly described as follows: Beginning at the Northeasterlymost corner of Outlot "C" in said Community Resource, Inc., and also being a point on the Westerly Right-of-Way line of Columbia Avenue (66 feet wide); thence North 19°10'40" East along said Westerly Right-of-Way line of Columbia Avenue, a distance of 845.36 feet to the Southeast corner of Outlot "A" in said Community Resources, Inc.; thence North 70°49'20" West along the South line of said Outlot "A", a distance of 42.00 feet; thence continuing along the South line of Park Area in said Community Resources, Inc. as described in the next four (4) calls, South 19°10'40" West, a distance 60.00 feet; North 70°49'20" West, a distance 35.00 feet; South 19°10'40" West, a distance 70.00 feet; North 70°49'20" West, a distance 79.00 feet, to the Easterly most corner of Lot 3 in said Community Resources, Inc.; thence South 19°10'40" West along the Easterly line of Lots 3 and 4 in said Community Resources, Inc., a distance 304.55 feet to the Southeast corner of said Lot 4; thence North 82°46'13" West, a distance of 419.27 feet along the South line of Lots 4 and 5 in said Community Resources, Inc., to the Southwest corner of said Lot 5; thence North 07°13'47" West, a distance of 123.81 feet along the Westerly line of Lot 5 in said Community Resources, Inc., to the Northwest corner of said Lot 5, said line also lying on the Southerly line of Lot 7 in said Community Resources, Inc.; thence South 71°15'37" West, a distance of 103.22 feet along the Southerly line of Lot 7 in said Community Resources, Inc., to the Southwest corner of said Lot 7 also being the East Right-of-Way line of Barbara Lane (60 feet wide), as shown in said Community Resources, Inc.; thence South 01°42'55" West along said East Right-of-Way line of Barbara Lane, a distance of 492.48 feet; thence South 88°17'05" East, a distance of 46.04 feet to a point on the East line of Outlot "C" in said Community Resources, Inc.; thence South 07°10'50" West (South 07°13'47" West Recorded) along said East line of Outlot "C", a distance of 27.06 feet; thence South 82°46'17" East (South 82°46'13" East Recorded) along the North line of said Outlot "C", a distance of 486.46 feet to the point of beginning, containing 7.348 acres, more or less, all in the Town of Munster, Lake County, Indiana.

STATE OF INDIANA } § COUNTY OF LAKE

We, Community Resource, Inc., do hereby certify that we are the owner of the property herein above described, and that of our own free will and accord has caused said property to be surveyed and subdivided into lots, blocks and streets as hereon shown.

This subdivision shall be known and designated as Community Resource, Inc. Phase two, an Addition to the Town of Munster, Lake County, Indiana. All streets, alleys and crosswalks shown and not heretofore dedicated are hereby dedicated to the public.

Community Resource, Inc.

President

STATE OF INDIANA } § COUNTY OF LAKE

Before me, a Notary Public in and for said County and State, personally appeared of Community Resource, Inc., known to me to be same person who signed the above certificate and acknowledged to me that he executed the same as their own free act and deed.

Witness my hand and Notarial Seal this day of

My Commission Expires:

Notary Public County of Residence : STATE OF INDIANA } §

COUNTY OF LAKE

Submitted to, approved and accepted by the Plan Commission of the Town of Munster, Lake County, Indiana, this

day of

Plan Comm. President Plan Comm. Secretary

STATE OF INDIANA } § COUNTY OF LAKE

I, Gary P. Torrenga, hereby certify that I am a Registered Professional Land Surveyor licensed under the Laws of the State of Indiana; that I have made a survey of the land shown and described herein and subdivided same as shown on the plat hereon drawn; that this plat is correctly shown and that all monuments or markers shown thereon actually exist, and that their locations, size, type and description are accurately shown.

Witness my hand and Seal this _____ day of

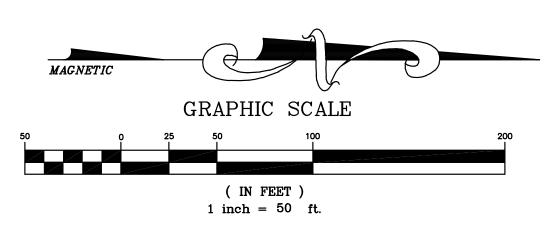
TORRENGA ENGINEERING, INC.

Gary P. Torrenga - Registered L.S. #S0514



UTILITY EASEMENTS

An easement is hereby granted to the Town of Munster, Indiana, Ameritech, AT&T, Northern Indiana Public Service Company, and other companies identified by the Town of Munster, Indiana as supplying public service needs severally and their respective successors and assigns to install, lay, erect, construct, renew, operate, repair, replace and maintain sewers, water mains, gas mains, conduits, cables, poles and wires, underground with all necessary braces, guys, anchors and other appliances, in, upon, along and over the strip or strips of land designated by dashed lines on the plat and marked "utility easements" for the purpose of serving the public in general with sewer, water, gas, electric, telephone and cable television service, including aerial rights as to streets where necessary with aerial service wires to adjacent lots, together with the right to enter upon the said utility easements at all times for any and all of the purposes aforesaid and to trim and keep trimmed any trees, shrubs, or saplings that interfere with any such utility equipment. Any fences, trees, black tappings, vegetation improvements or other potential obstacles to the use of utility easements shown upon the subdivision plat shall be placed at the risk of the property owner and may be subject to removal in the event of any interference with the use of said utility easements or drainage of other lots. Changes of yard elevations in utility easements from those established upon the subdivision plat or noted on plats submitted and approved when building permits are issued that adversely impact drainage of adjoining lots shall be subject to regrading at the owner's expense. All designated utility easements are also hereby dedicated as drainage easements.



ENGINEERS & LAND 20AD, MUNSTER, INDI	website: www.torrenga.com
TORRENGA consulting 907 RIDGE F	Tel. No.: (219) 836–8918
COMMUNITY RESOURCES, INC. PHASE TWO	HINAL PLAI
	DATE: 09-24-2021
CLIENT: Community Resources, Inc. 905 Ridge Road Munster, Indiana 46321 JOB NO: 2021—5032	SCALE: 1" = 50'
SHEET 1 OF 1	