



PLAN COMMISSION STAFF REPORT

To: 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 Required: 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 McClaughy 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.

6. Where sidewalks are constructed without parkways, the sidewalk will be wider than 5', wide enough to accommodate two people walking past each other.
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.
2. 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	\$532,270.00
Hyre Electric	\$22,110.00
TREE ESTIMATE	\$26,830.00
FENCING ESTIMATE	\$32,600.00
TOTAL CONSTRUCTION COST	\$613,810.00
Performance Bond Value	x 115%
	\$705,881.50

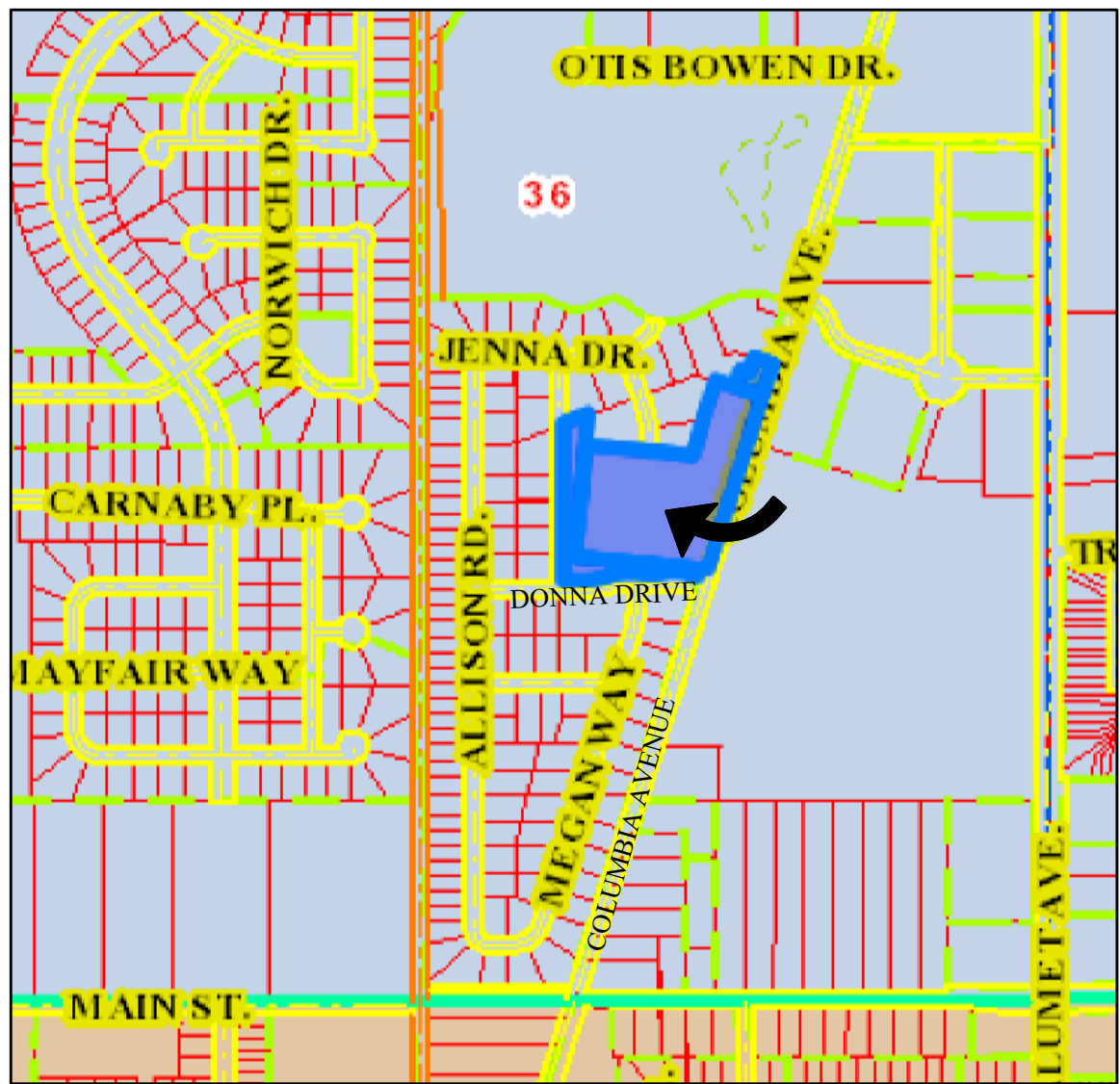
Staff has reviewed the contracts and estimate provided as verification of the cost of improvements and the bond documents and finds them to be acceptable.

RECOMMENDATION

The Plan Commission may wish to consider the following motion:

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

FILE NO:Z\2021-5032 Community Resources Phase 2 Munster.dwg 2021-5032.dwg 4/21/2022 2:41:09 PM CDT



VICINITY MAP
NOT TO SCALE



Pipeline Easement dated May 17, 1946, Recorded May 28, 1946 in Misc. Record 407, page 581, and Re-Recorded June 21, 1946 in Misc. Record 451, page 261.

LINE TABLE						
LINE	LENGTH	BEARING				
L1	215.97'	N 07°13'47" E				
L2	32.50'	N 82°46'13" W				
			CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD	
C1	20.75'	500.00'	2°22'40"	N 06°02'27" E	20.75'	

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 Northeasternmost corner of Outlot "C" in said Community Resources, 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: _____ 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 _____.

By: _____ Attest: _____
Plan Comm. President Plan Comm. Secretary

STATE OF INDIANA } §
COUNTY OF LAKE }

I, Gary P. Torrenge, 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 _____, _____.

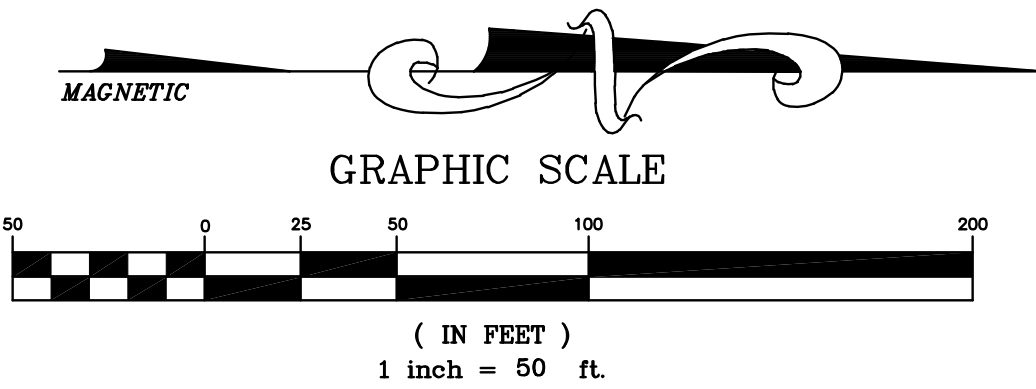
TORRENGA ENGINEERING, INC.

Gary P. Torrenge - 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 tapings, 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 their 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.

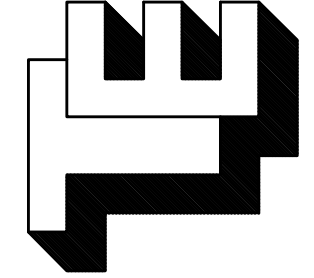


COMMUNITY RESOURCES, INC.
PHASE TWO
FINAL PLAT

CLIENT:
Community Resources, Inc.
905 Ridge Road
Munster, Indiana 46321
JOB NO: 2021-5032
SCALE: 1" = 50'

SHEET
1 OF 1

TORRENGA ENGINEERING, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
907 RIDGE ROAD, MUNSTER, INDIANA 46321
Tel. No.: (219) 836-8918
website: www.torrenge.com



Z:\2021-5032 Community Resources Phase 2 Munster\dwg\2021-5032.dwg 12/21/2021 9:27:44 AM CST

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, & STREET LIGHTS
C-4.1	PROFILE
C-5.0 TO C-5.2	STANDARD DETAILS & SPECIFICATIONS
C-6.0	STORM WATER POLLUTION PREVENTION PLAN (SWPPP)
C-7.0 TO C-7.1	SWPPP DETAILS & SPECIFICATIONS
1 OF 1	FINAL PLAT

HOLEY MOLEY SAYS

"DIG SAFELY"



"IT'S THE LAW"
CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-382-5544
CALL TOLL FREE
PER INDIANA STATE LAW IC8-1-26,
IT IS AGAINST THE LAW TO EXCAVATE
WITHOUT NOTIFYING THE UNDERGROUND
LOCATION SERVICE TWO (2) WORKING
DAYS BEFORE COMMENCING WORK.

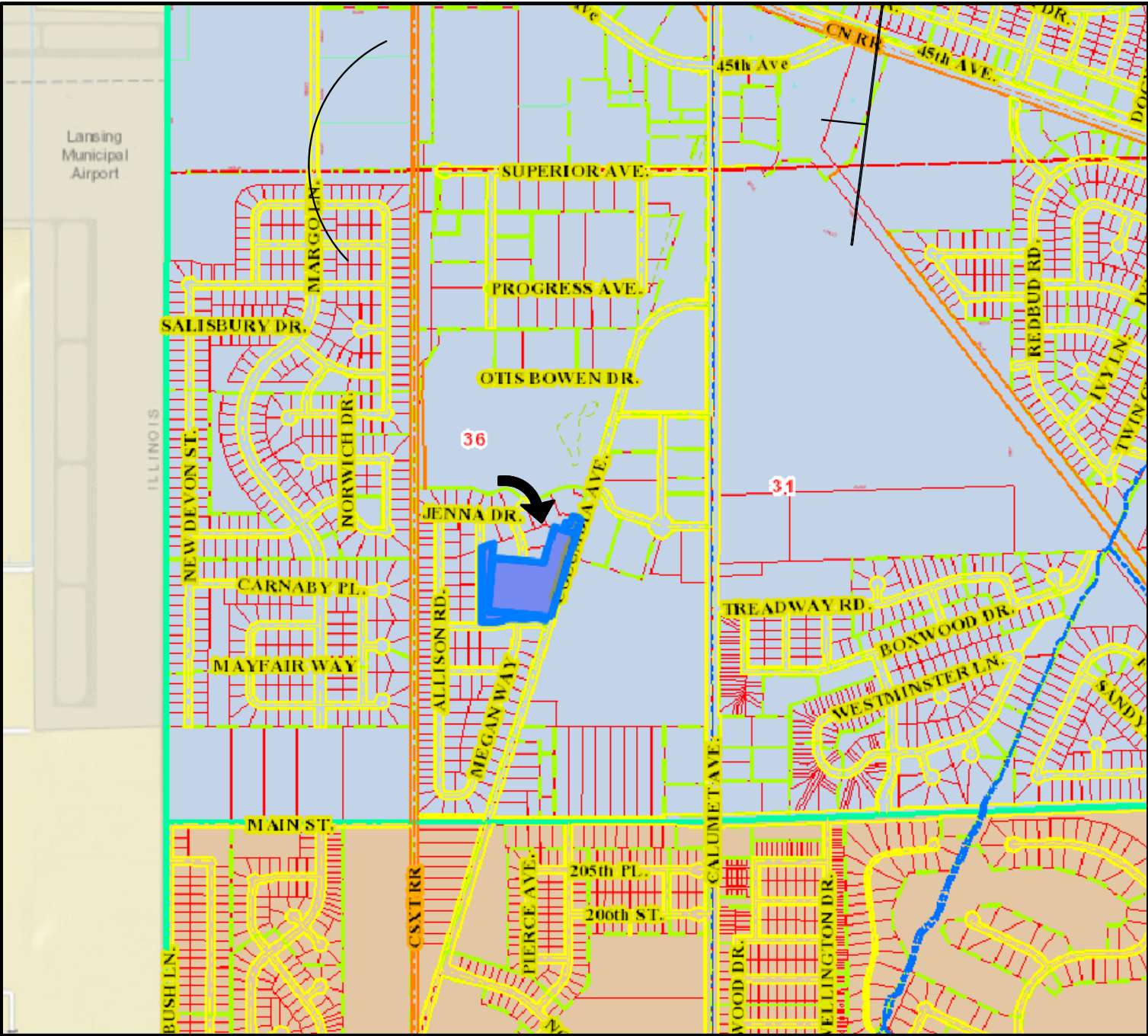
County: Lake

Part of Fractional, Sec. 36, T. 36 N., R. 10 W.

Township: North

Date and Revisions:

NO.	DATE	DESCRIPTION	BY
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/AM
3	11-16-2021	3RD SUBMITTAL TO THE TOWN OF MUNSTER	DT/AM
2	10-21-2021	2ND SUBMITTAL TO THE TOWN OF MUNSTER	DT/AM/SP/AM
1	09-24-2021	1ST SUBMITTAL TO THE TOWN OF MUNSTER	DT/AM/SP/AM



VICINITY MAP

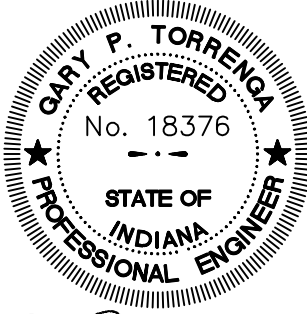
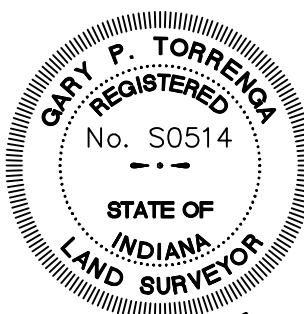
DRAWING SET PROGRESS:

- ☐ PRELIMINARY ENGINEERING
- FOR REVIEW / APPROVAL
- ☒ FINAL ENGINEERING
- FOR CONSTRUCTION

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

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



Gary P. Torrenga

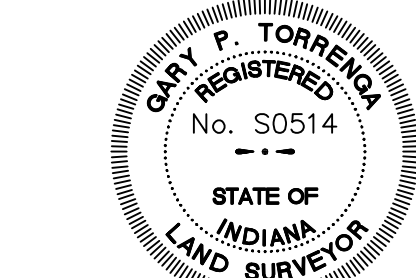
COMMUNITY RESOURCES, INC.
PHASE TWO
AN ADDITION TO THE TOWN OF MUNSTER, LAKE COUNTY, INDIANA

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 Northeastlymost 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.; thence North 07°13'47" East, a distance of 123.81 feet along the Westerly line of Lot 5 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.; 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.

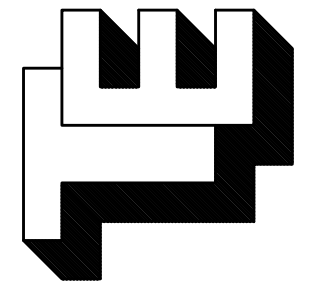
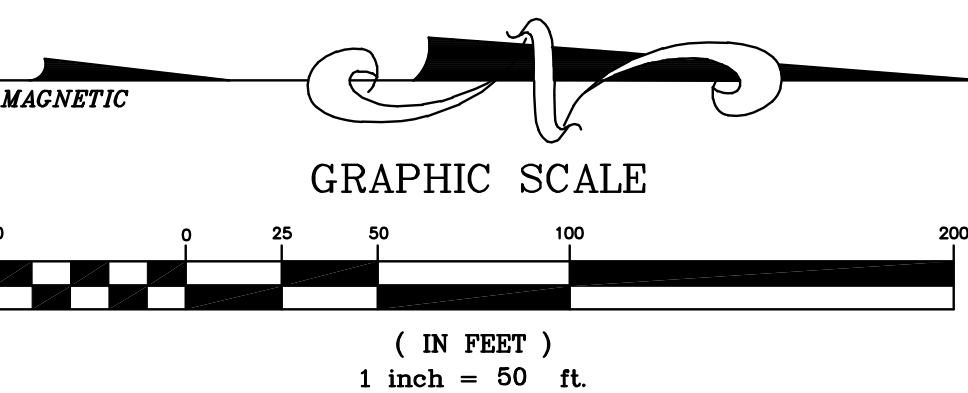
BENCHMARKS:
BENCHMARK TBM NO. 1: The top of curb immediately south of the depressed section. Elevation = 619.63
BENCHMARK TBM NO. 2: The top of the curb immediately north of the depressed section. Elevation = 619.83

LEGEND
EXISTING

	WATER MAIN
	WATER VALVE
	FIRE HYDRANT
	SANITARY SEWER
	SANITARY MH
	STORM SEWER
	STORM MH/CB/INL
	GRADES
	STREET LIGHT
	CONTOUR



Gary P. Torrenza



TORRENGA ENGINEERING, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
907 RIDGE ROAD, MUNSTER, INDIANA 46321
Tel. No.: (219) 836-8918
website: www.torrenza.com

COMMUNITY RESOURCES, INC.
PHASE TWO
EXISTING TOPOGRAPHY & UTILITIES

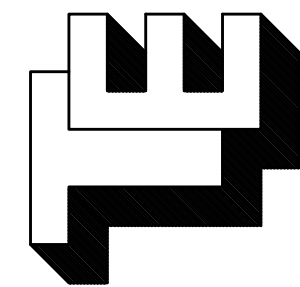
11-29-2021	REVISIONS:
11-16-2021	
10-21-2021	
DATE: 09-24-2021	

CLIENT:
Community Resources, Inc.
905 Ridge Road
Munster, Indiana 46321
JOB NO: 2021-5032
SCALE: 1"=50'

SHEET
C-1.0

FILE NO: 2021-5032 Community Resources Phase 2 Munster.dwg 2021-5032.dwg 12/21/2021 9:27:44 AM CST

COMMUNITY RESOURCES, INC.
PHASE TWO
EXISTING TREE SURVEY



TORRENGA ENGINEERING, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
907 RIDGE ROAD, MUNSTER, INDIANA 46321
Tel. No.: (219) 836-8918
website: www.torrenga.com

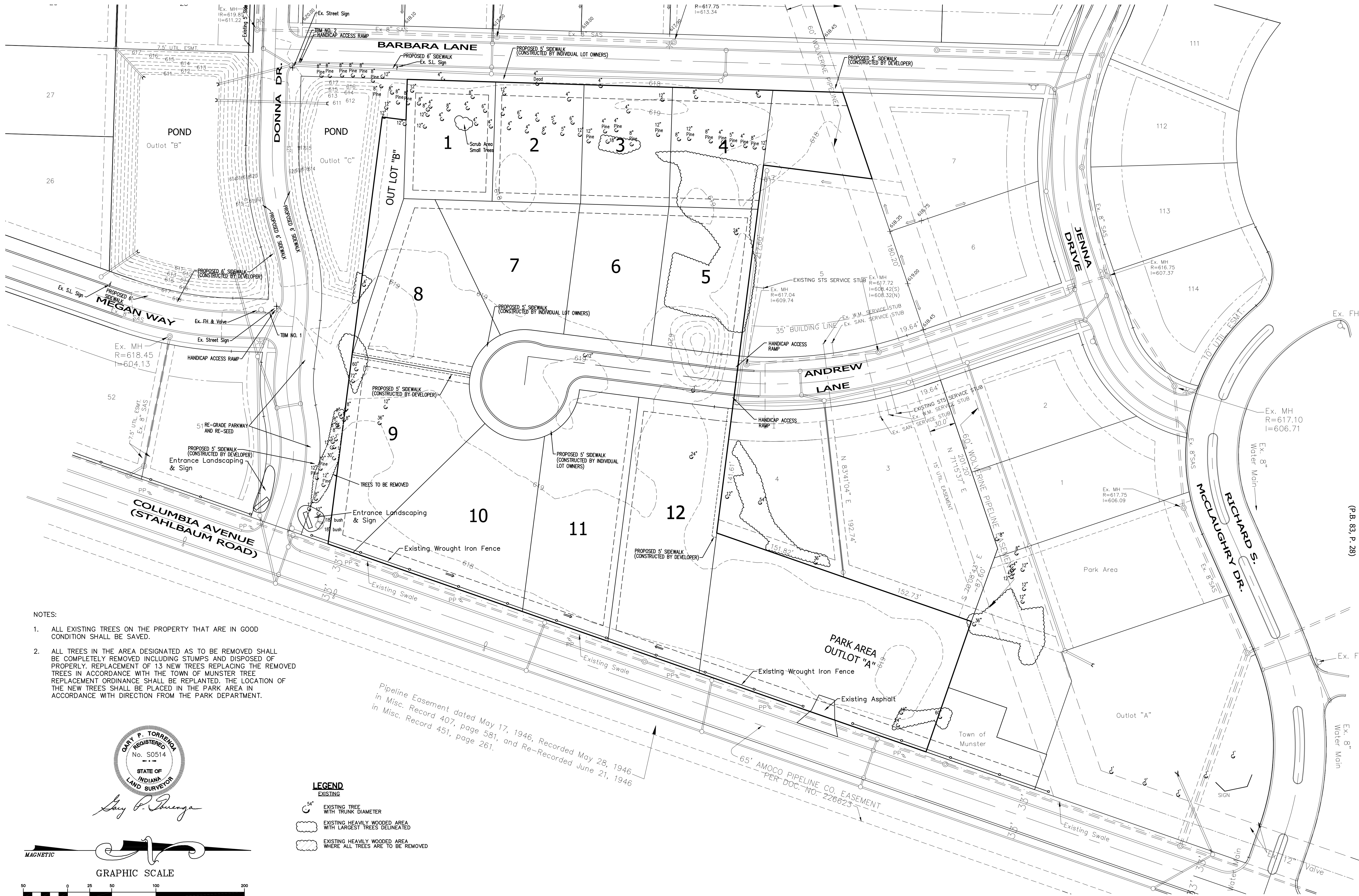
COMMUNITY RESOURCES, INC.
PHASE TWO
TREE SURVEY

CLIENT:
Community Resources, Inc.
905 Ridge Road
Munster, Indiana 46321

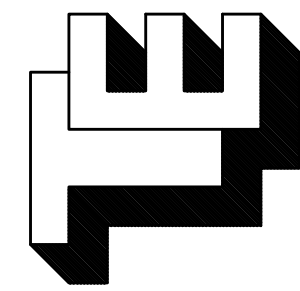
REVISIONS:
11-29-2021
11-16-2021
DATE: 10-21-2021

JOB NO: 2021-5032
SCALE: 1"=50'

SHEET
C-1.1



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



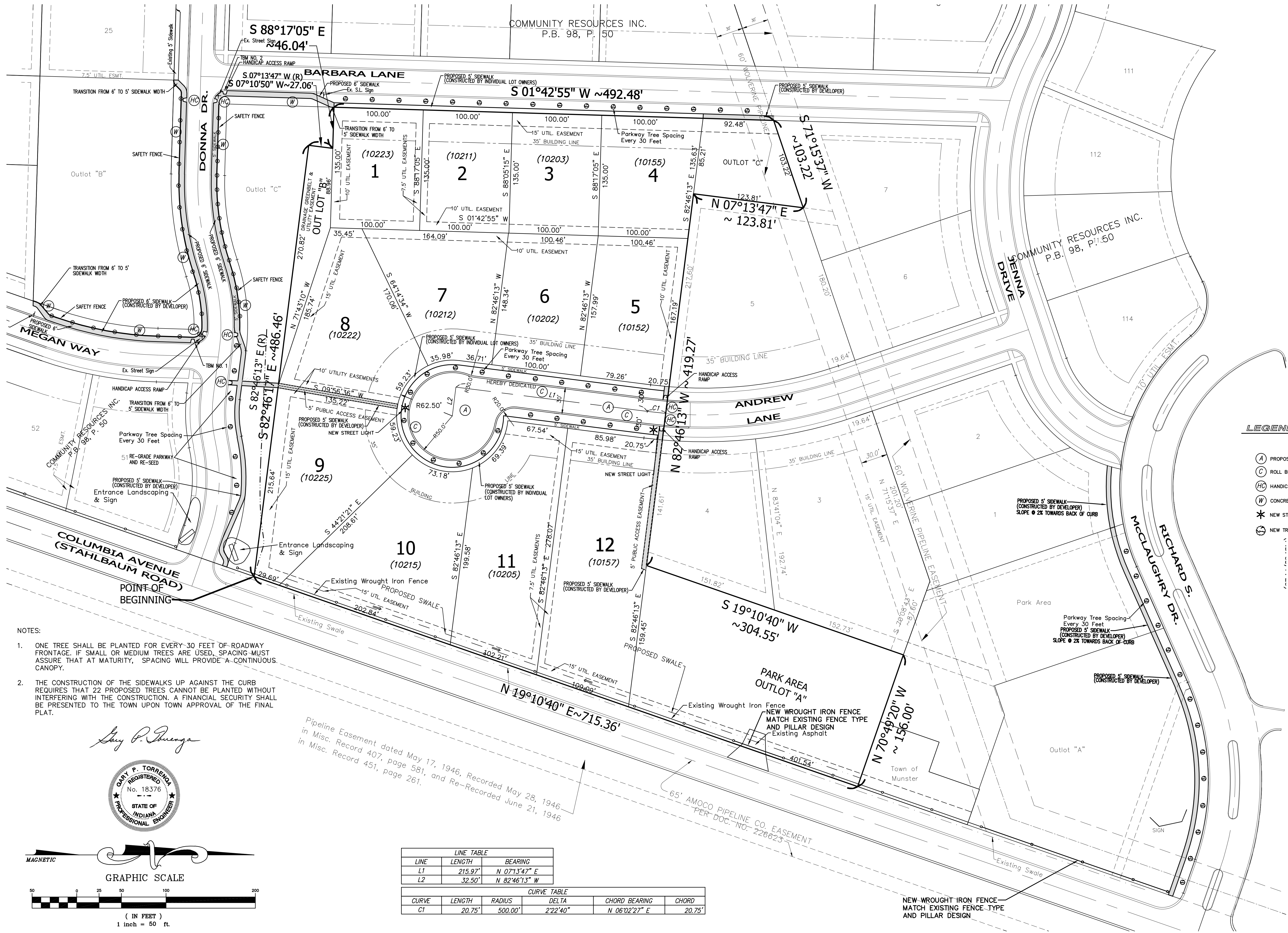
TORRENGA ENGINEERING, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
907 RIDGE ROAD, MUNSTER, INDIANA 46321
Tel. No.: (219) 836-8918
website: www.torrenga.com

COMMUNITY RESOURCES, INC.
PHASE TWO
LOT LAYOUT

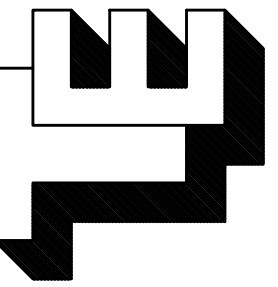
12-10-2021
11-29-2021
11-16-2021
10-21-2021
REVISIONS:
DATE: 09-24-2021

CLIENT:
Community Resources, Inc.
905 Ridge Road
Munster, Indiana 46321
JOB NO: 2021-5032
SCALE: 1"=50'

SHEET
C-2.0



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



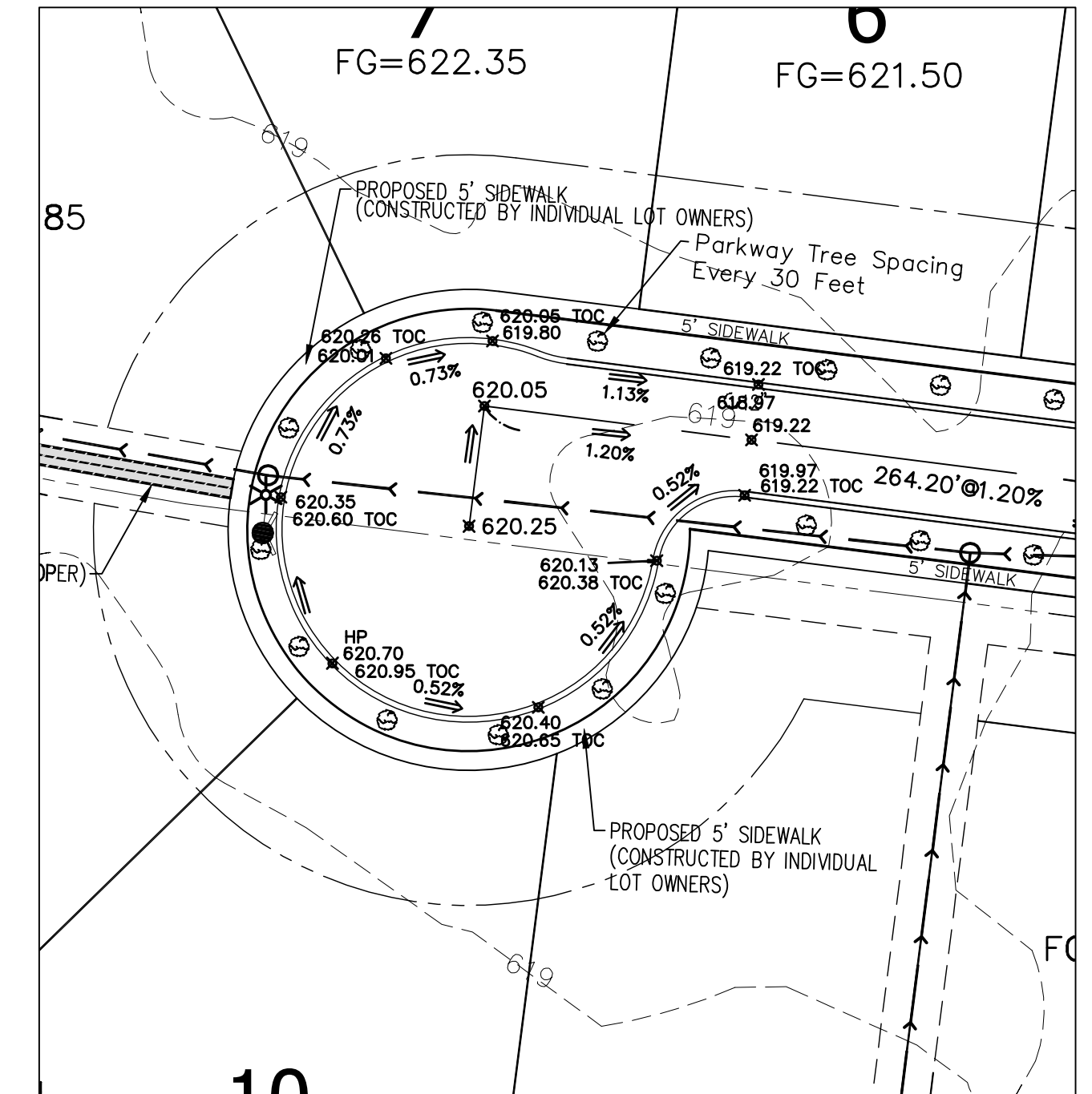
TORRENGA ENGINEERING, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
907 RIDGE ROAD, MUNSTER, INDIANA 46321
Tel. No.: (219) 836-8918
website: www.torrenga.com

COMMUNITY RESOURCES, INC.
PHASE TWO
STORM SEWER & GRADING PLAN

12-21-2021
11-29-2021
11-16-2021
10-21-2021
REVISIONS:
DATE: 09-24-2021

CLIENT:
Community Resources, Inc.
905 Ridge Road
Munster, Indiana 46321
JOB NO: 2021-5032
SCALE: 1"=50'

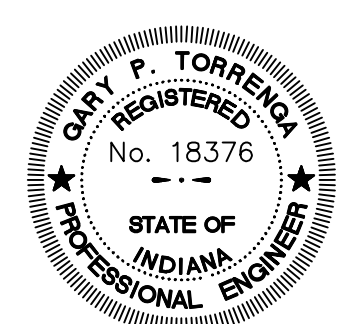
SHEET
C-3.0



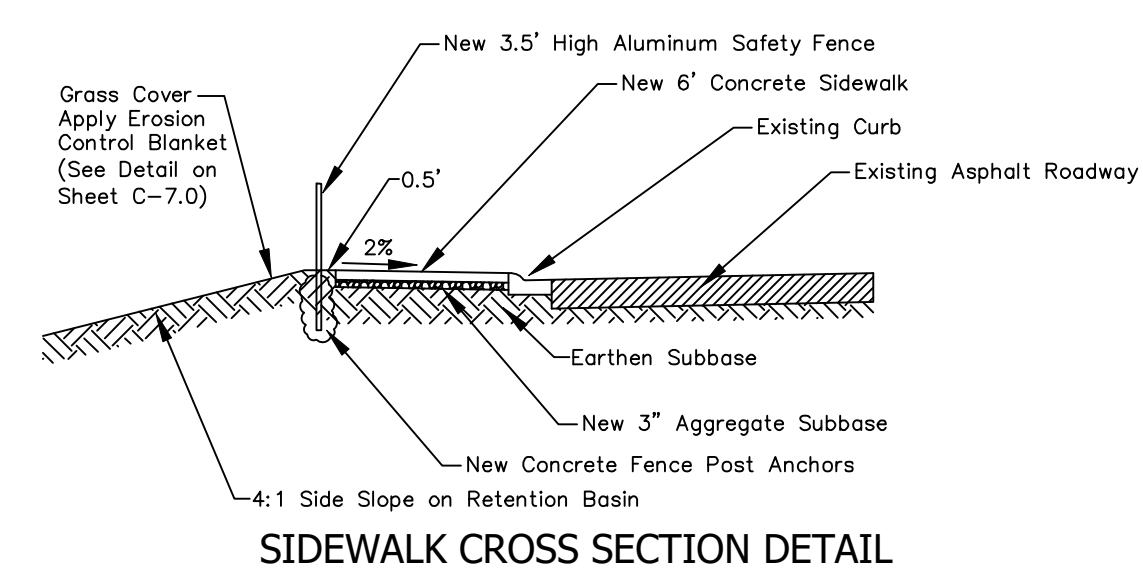
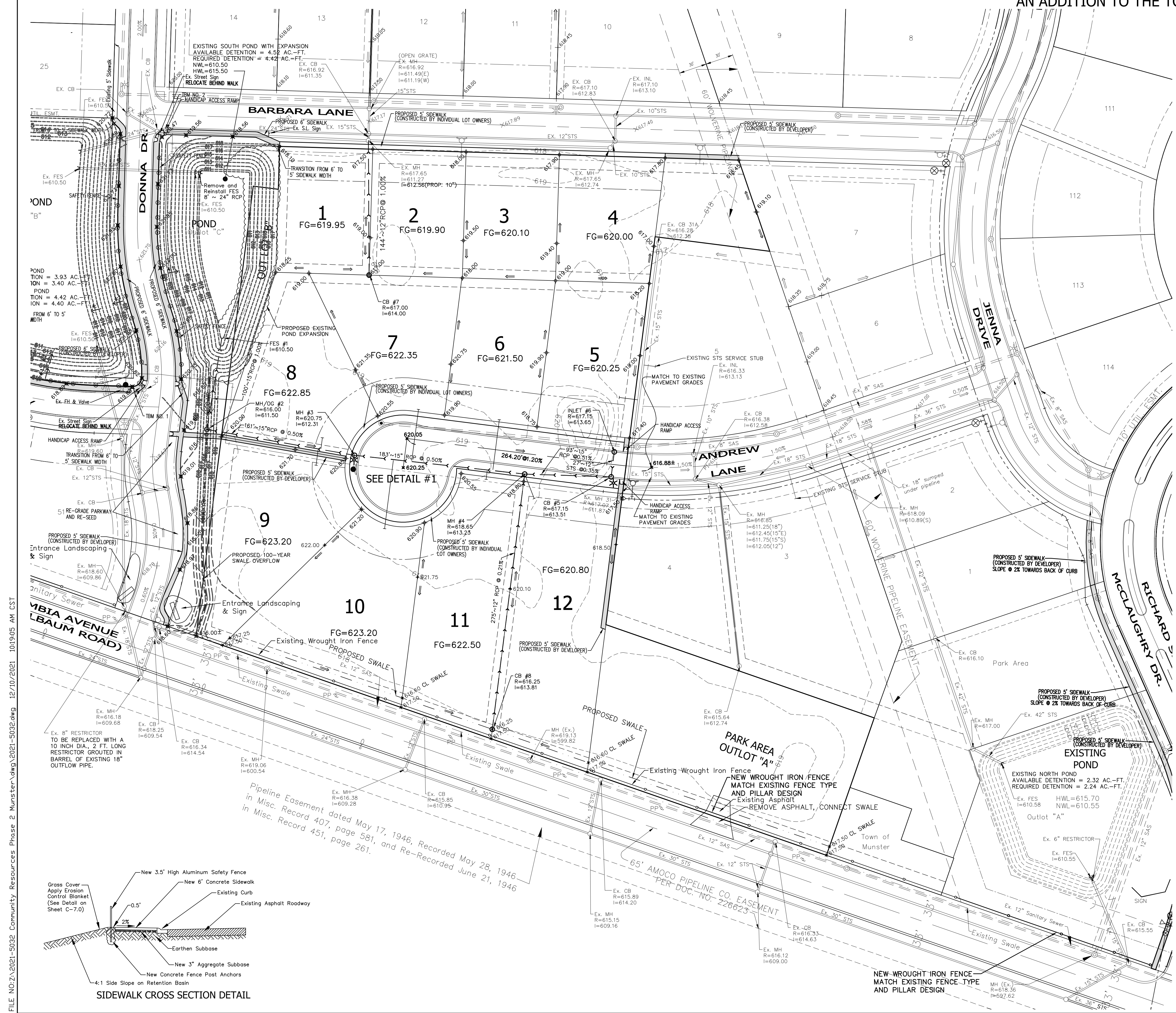
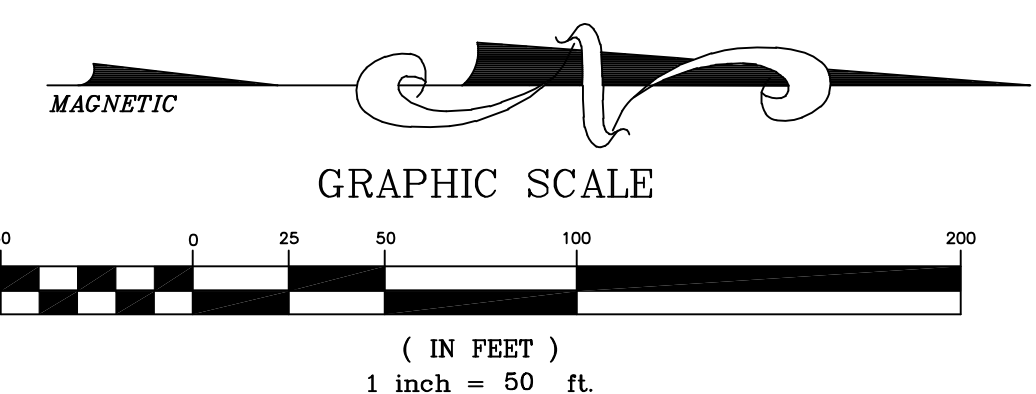
GRADING DETAIL #1

SCALE: 1" = 40'

LEGEND	
PROPOSED	EXISTING

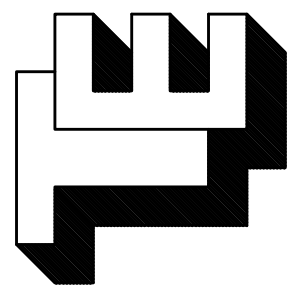


Gary P. Torrenga



FILE NO: 2021-5032 Community Resources Phase 2 Munster.dwg 2021-5032.dwg 12/10/2021 10:19:05 AM CST

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



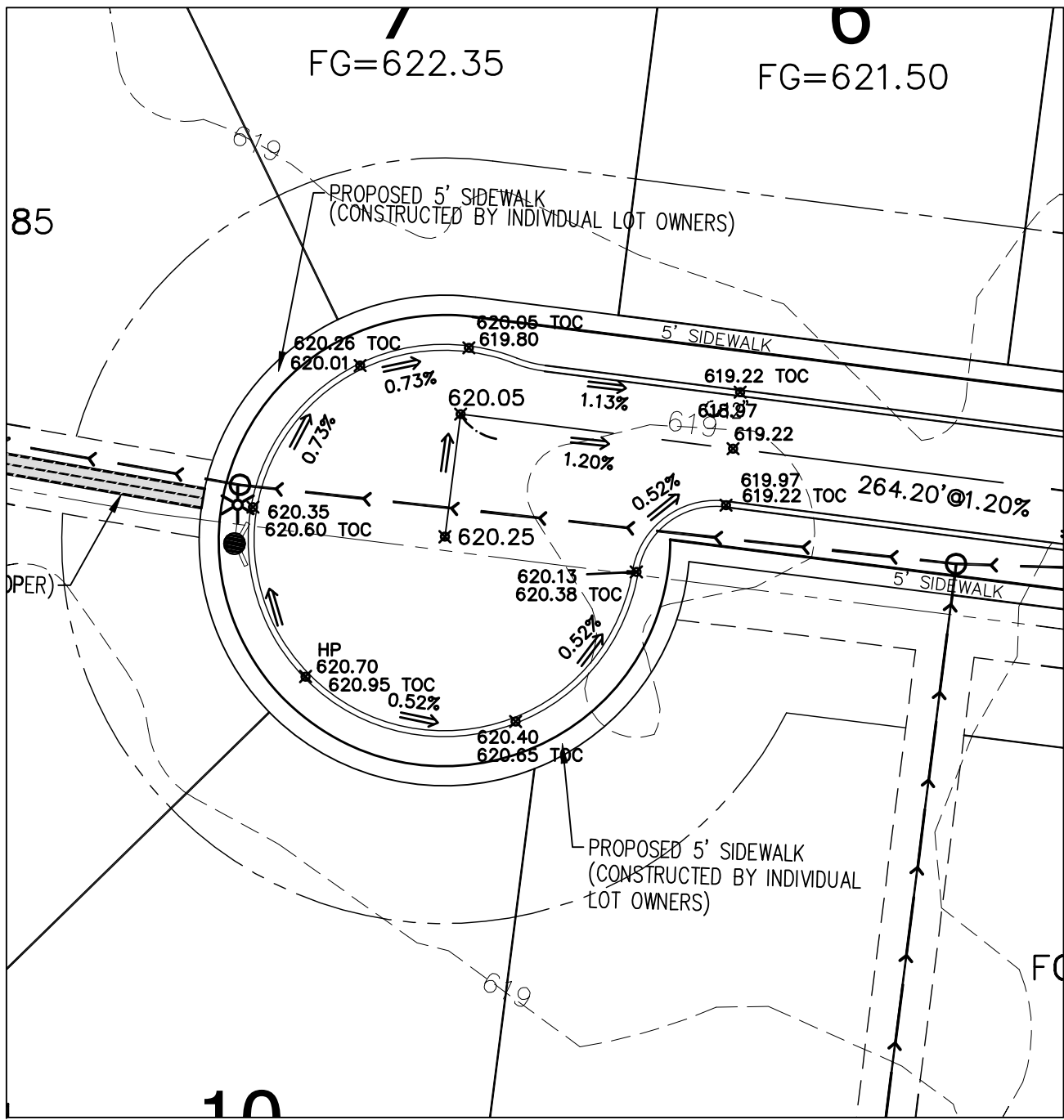
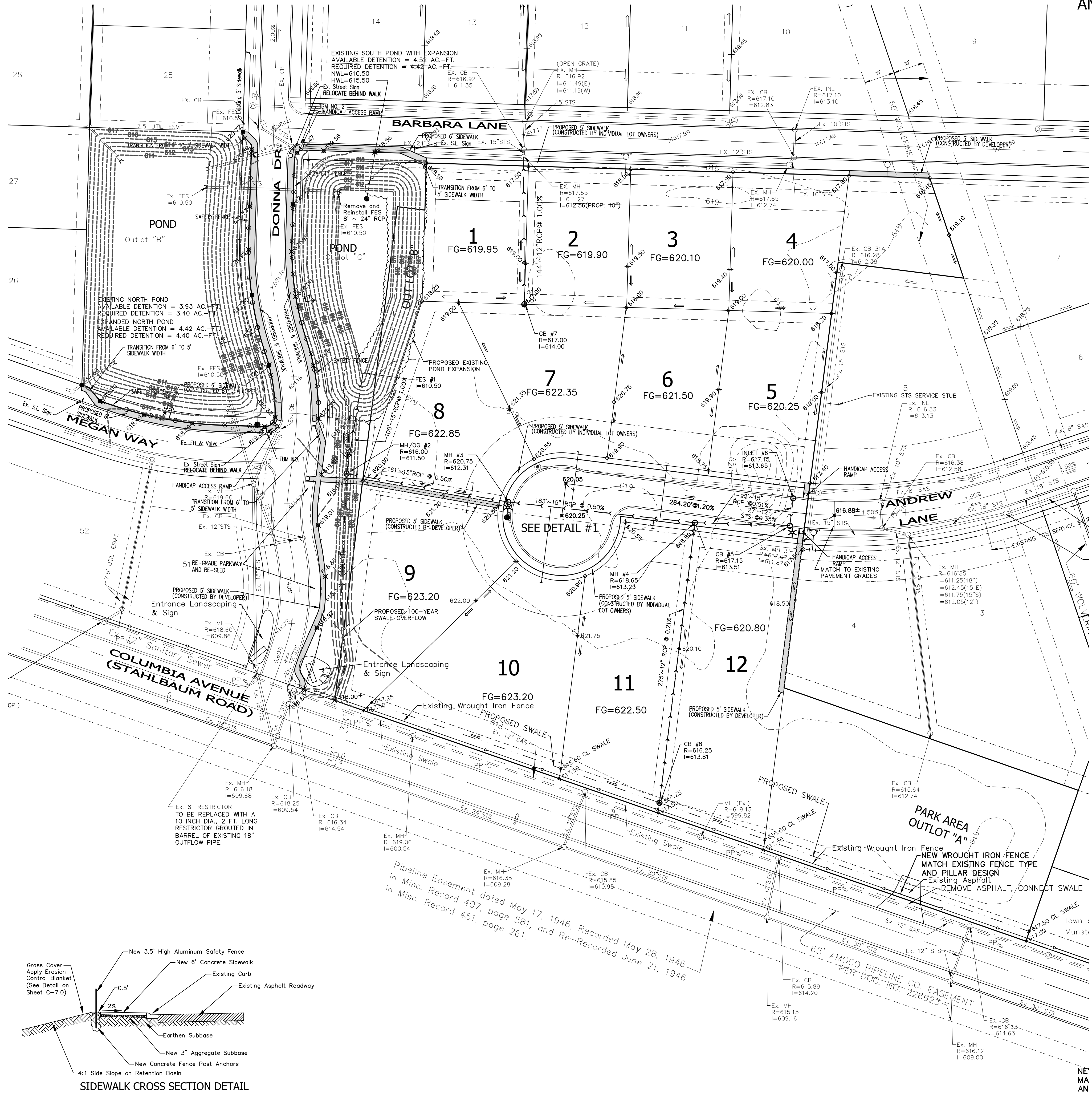
TORRENGE ENGINEERING, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
907 RIDGE ROAD, MUNSTER, INDIANA 46321
Tel. No.: (219) 836-8918
website: www.torrenge.com

COMMUNITY RESOURCES, INC.
PHASE TWO
STORM SEWER & GRADING PLAN

12-21-2021
12-10-2021
11-29-2021
11-16-2021
10-21-2021
DATE: 09-24-2021

CLIENT: Community Resources, Inc.
905 Ridge Road
Munster, Indiana 46321
JOB NO: 2021-5032
SCALE: 1" = 50'

SHEET
C-3.1

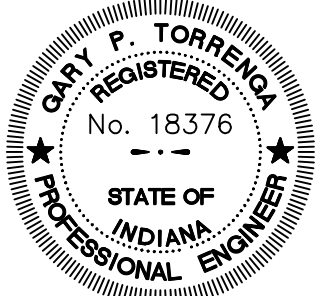


GRADING DETAIL #1

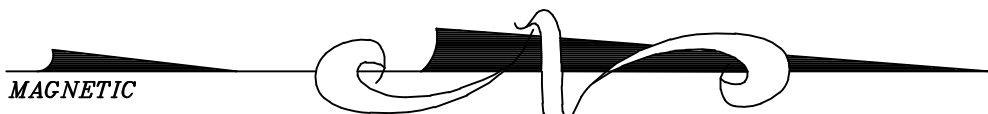
SCALE: 1" = 40'

LEGEND

	WATER MAIN
	FIRE HYDRANT
	WATER VALVE
	BEND (90°, 45°, 22.5°)
	TEE
	STREET LIGHT
	SANITARY SEWER
	SANITARY MANHOLE
	STORM SEWER
	STORM MH/CB/INL
	DRAINAGE ARROWS
	GRADES
	FINISH GRADE
	CONTOUR
	SAFETY FENCE
	WATER MAIN
	WATER VALVE
	FIRE HYDRANT
	SANITARY SEWER
	SANITARY MH
	STORM SEWER
	STORM MH/CB/INL
	GRADES
	STREET LIGHT
	CONTOUR

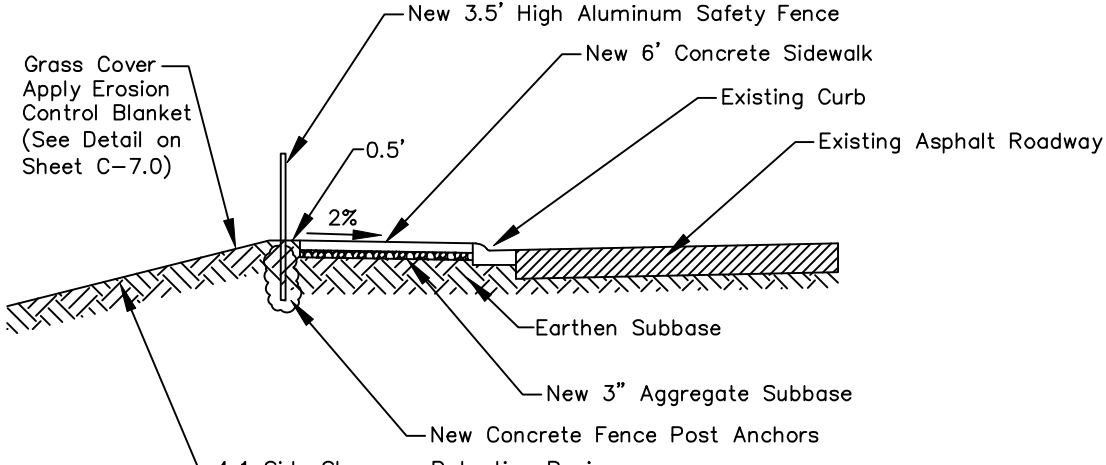


Gary P. Torrenge



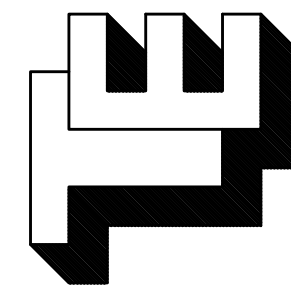
GRAPHIC SCALE

1 inch = 50 ft.



SIDEWALK CROSS SECTION DETAIL

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



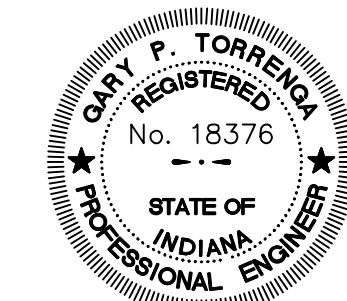
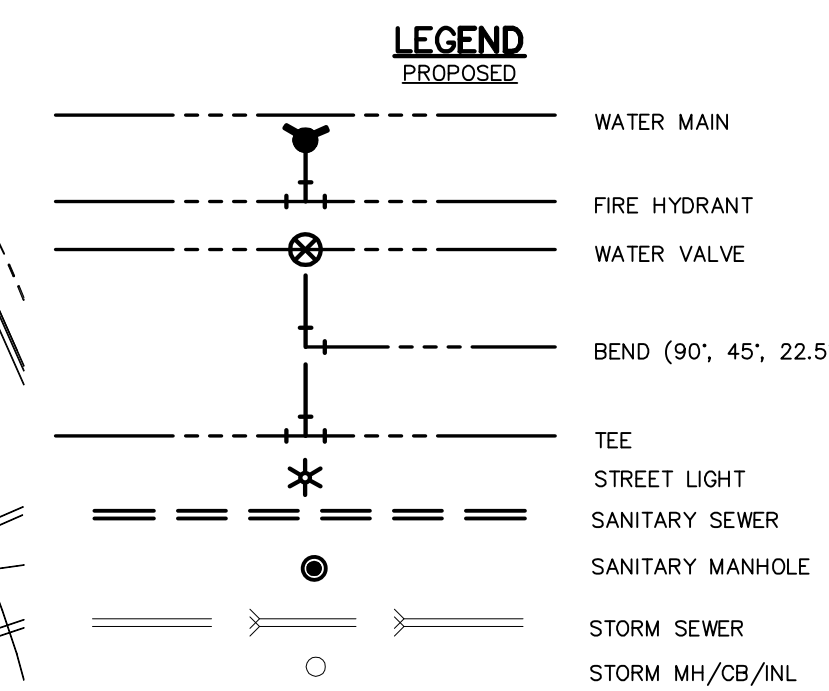
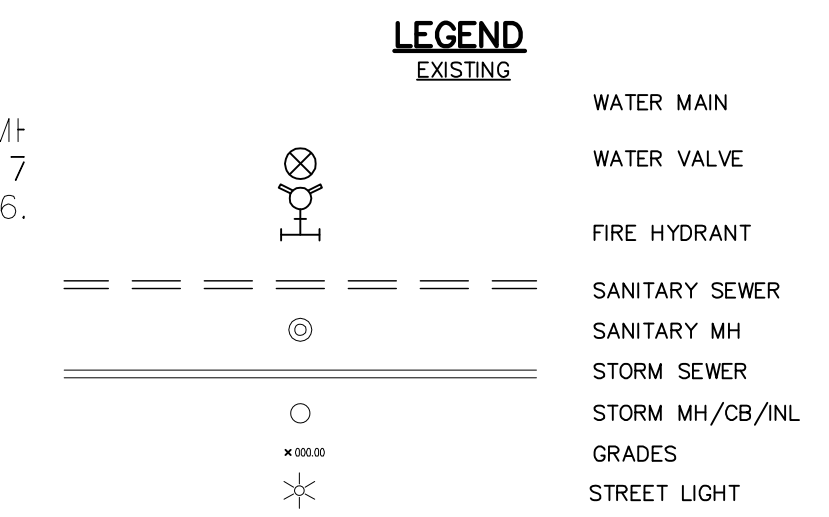
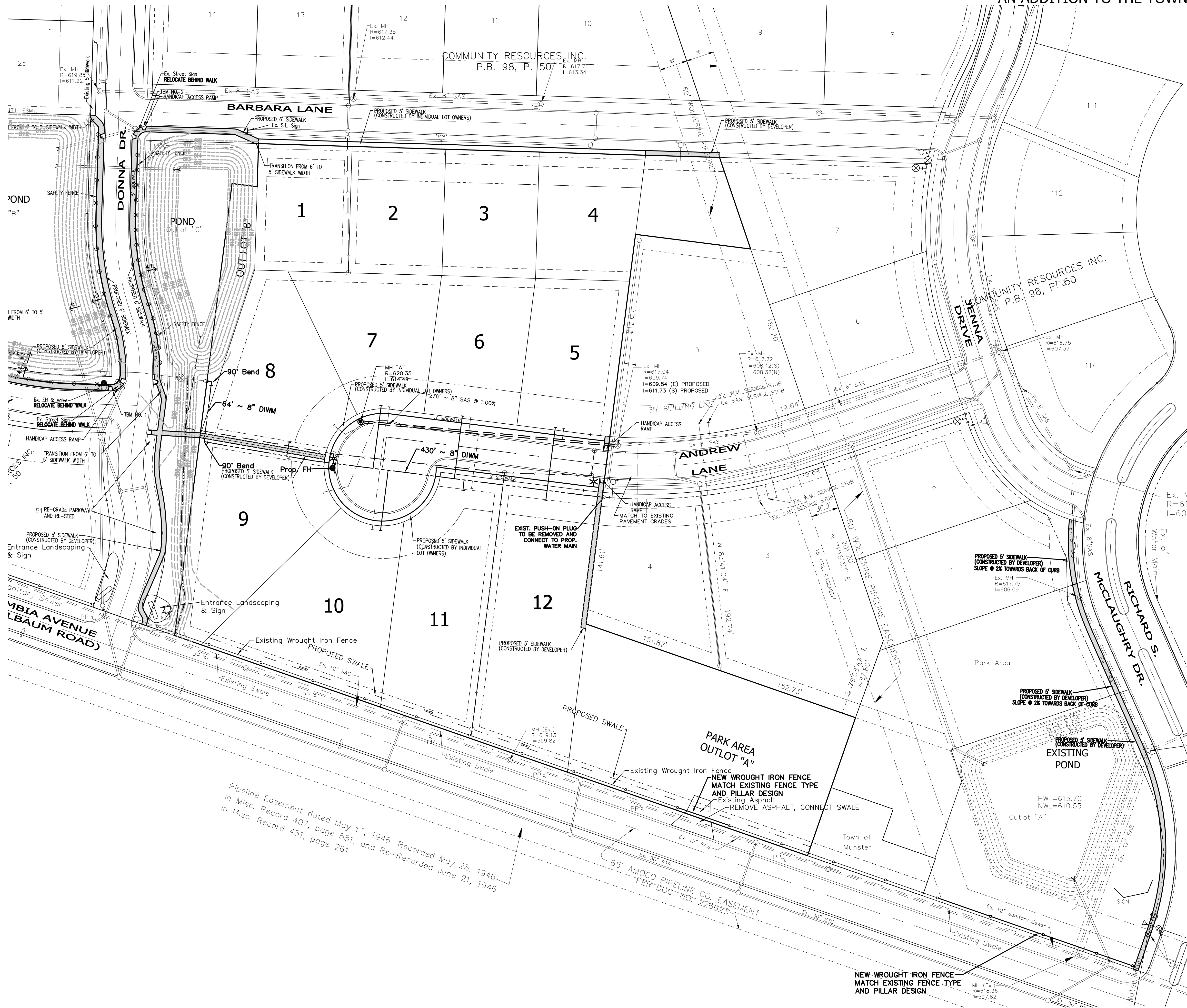
TORRENGA ENGINEERING, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
907 RIDGE ROAD, MUNSTER, INDIANA 46321
Tel. No.: (219) 836-8918
website: www.torrenga.com

COMMUNITY RESOURCES, INC.
PHASE TWO
SANITARY SEWERS, WATER MAIN
AND STREET LIGHT

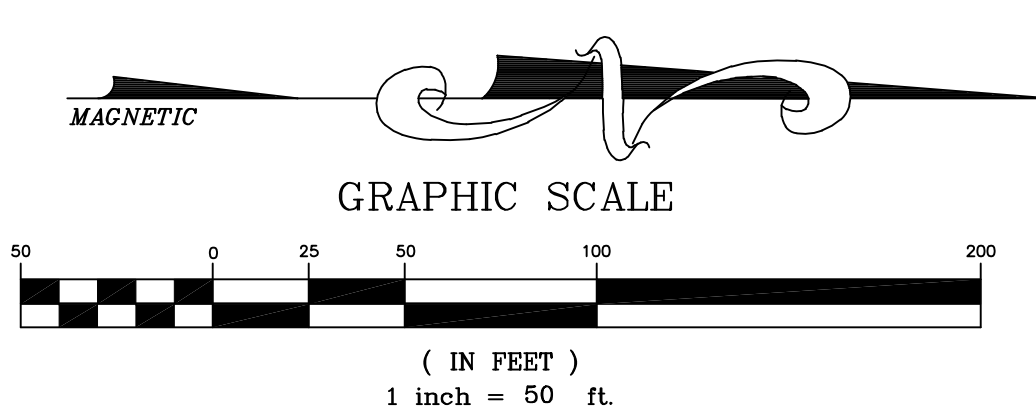
12-10-2021
11-29-2021
11-16-2021
10-21-2021
REVISIONS:
DATE: 09-24-2021

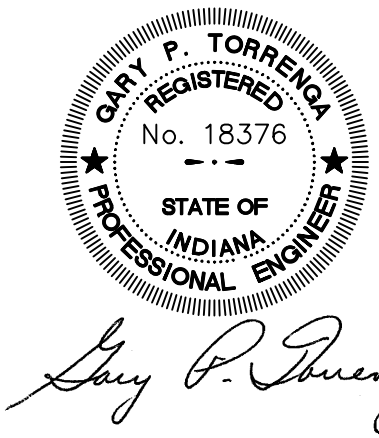
CLIENT: Community Resources, Inc.
905 Ridge Road
Munster, Indiana 46321
JOB NO: 2021-5032
SCALE: 1"=50'

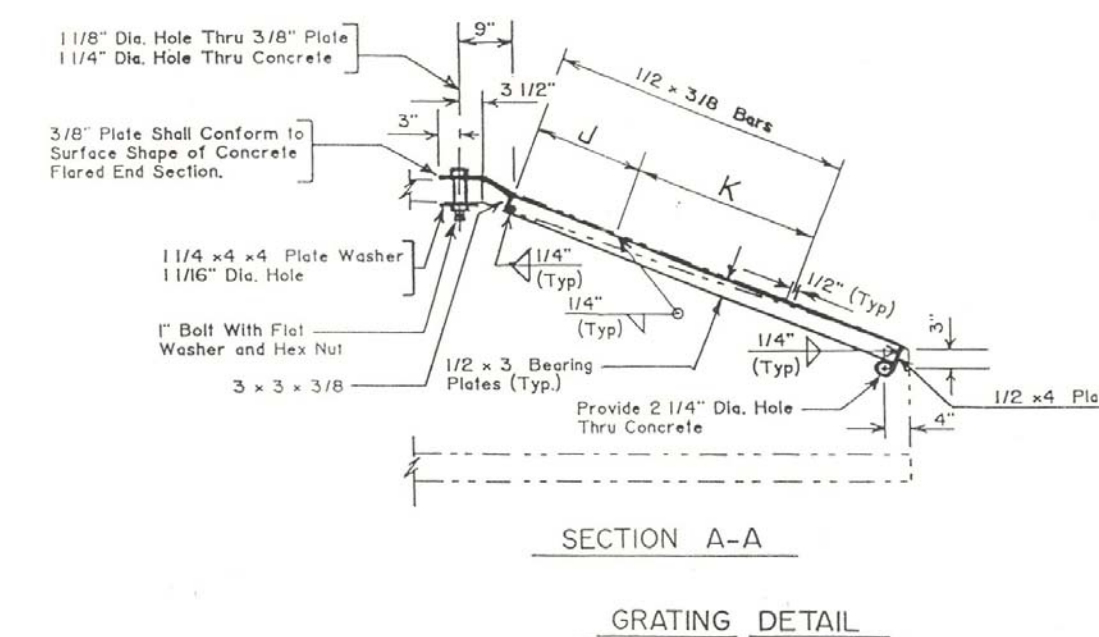
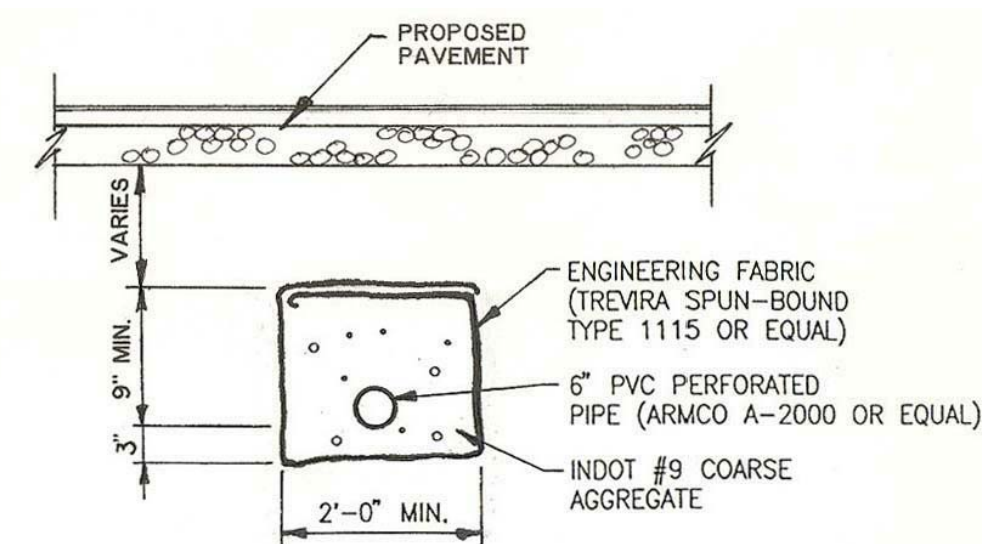
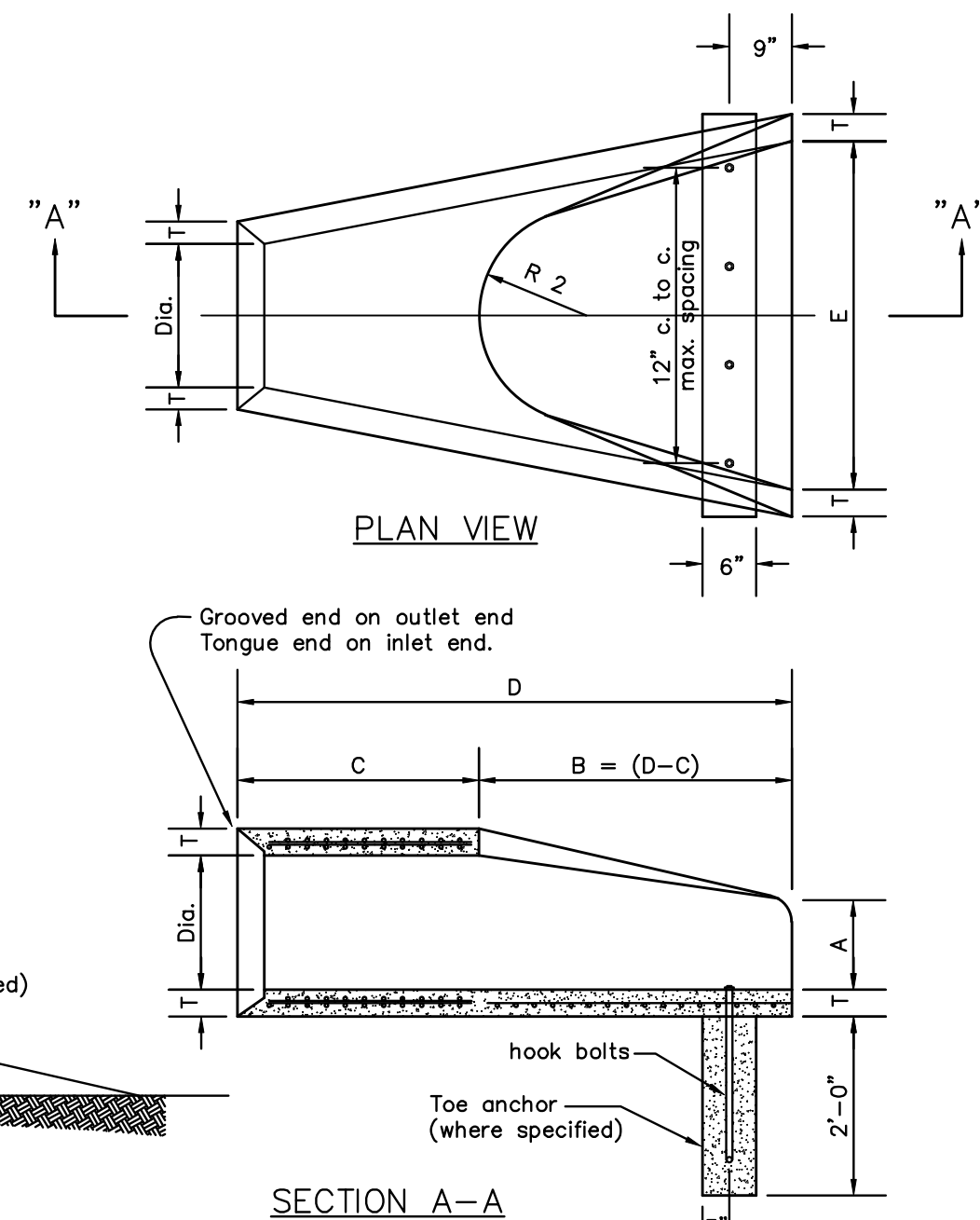
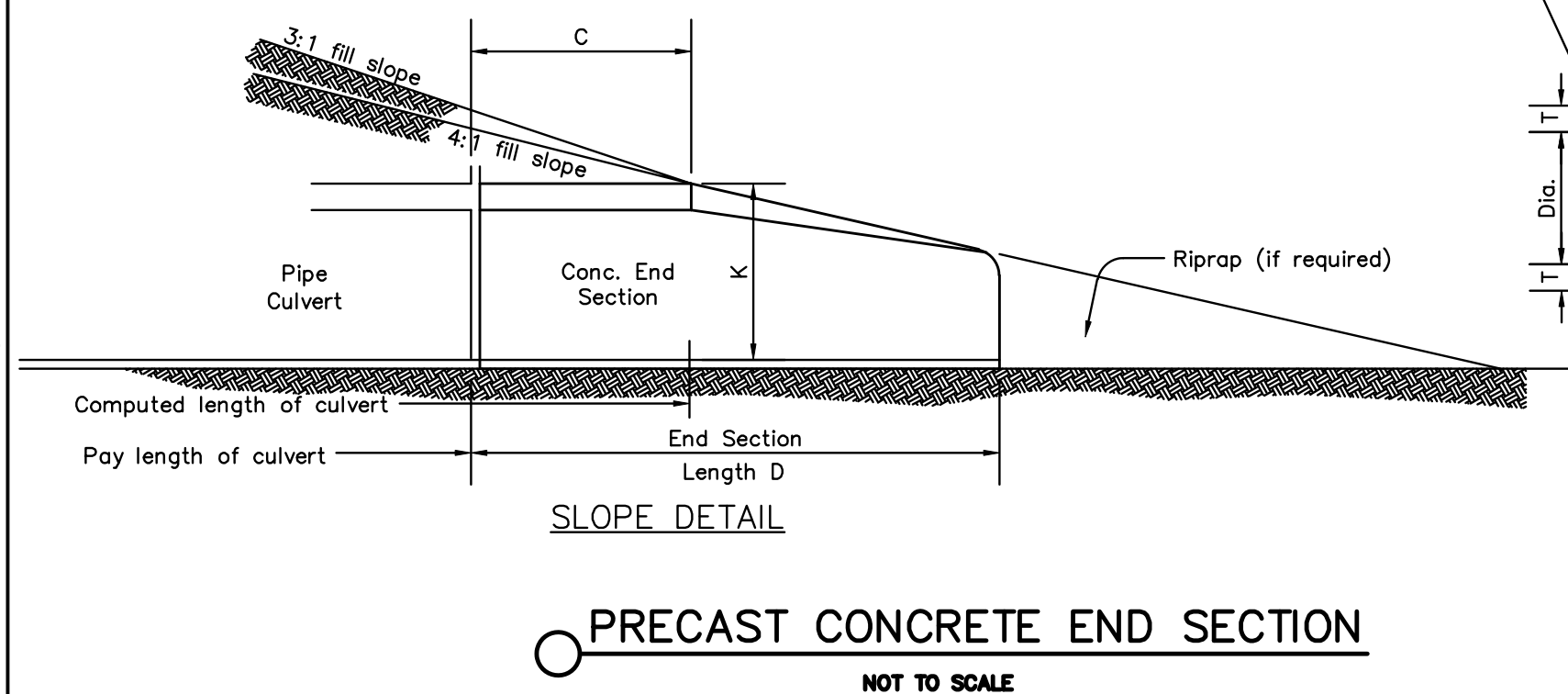
SHEET
C-4.0



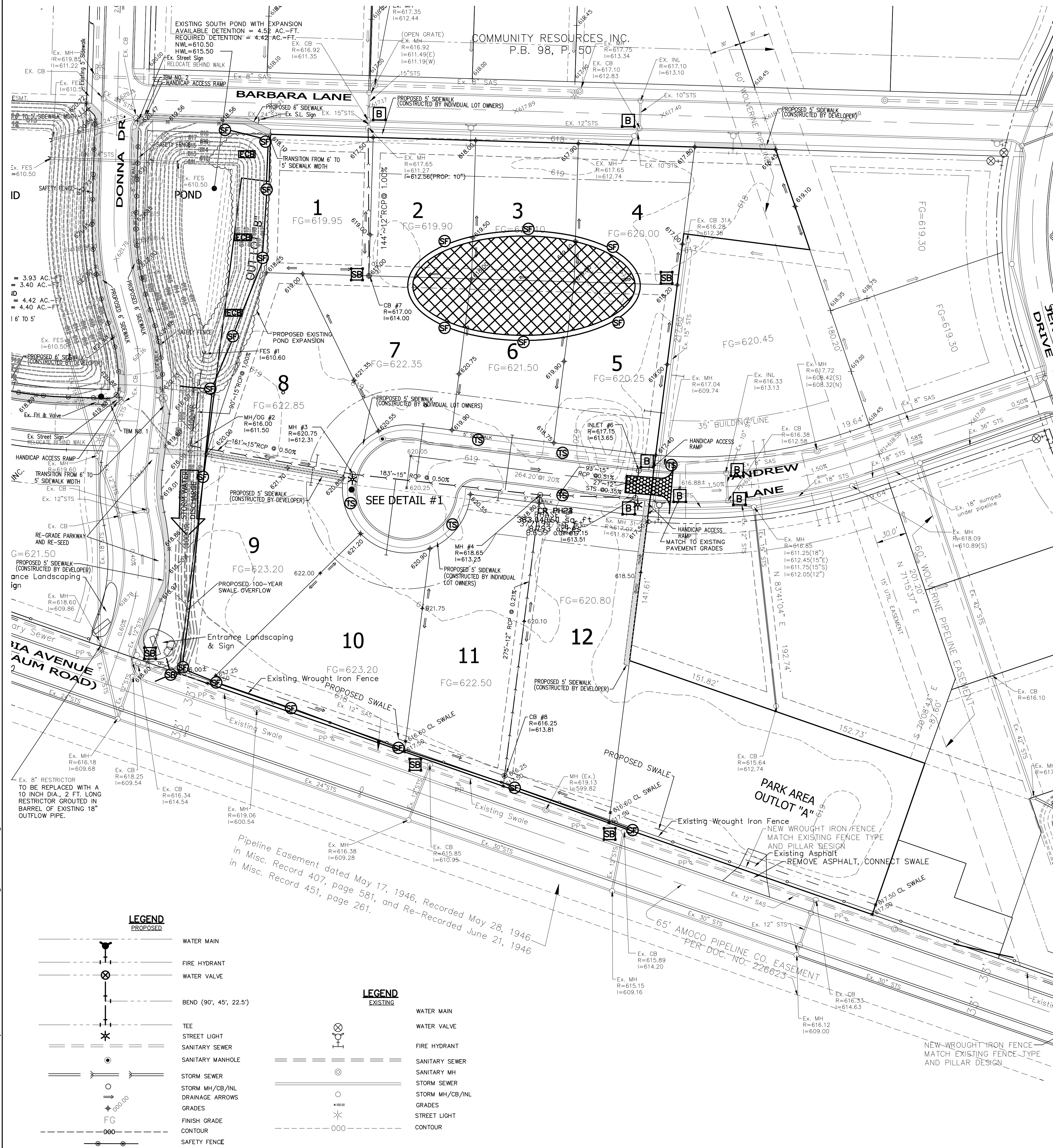
Gary P. Torrenga



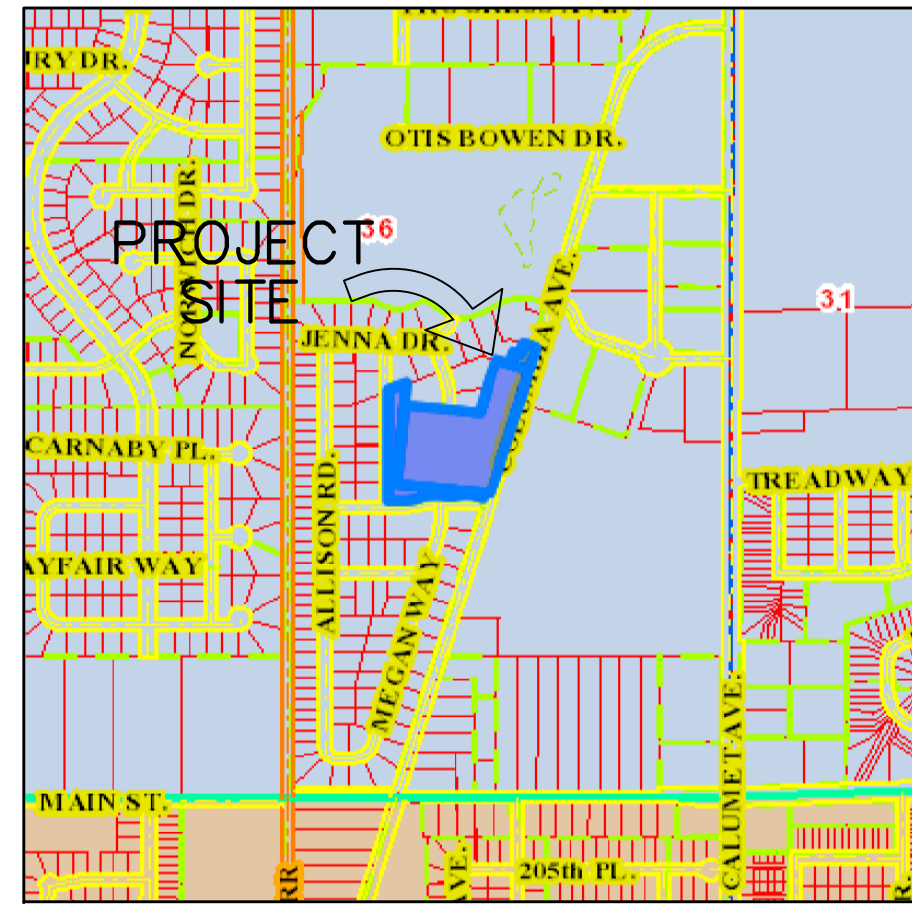




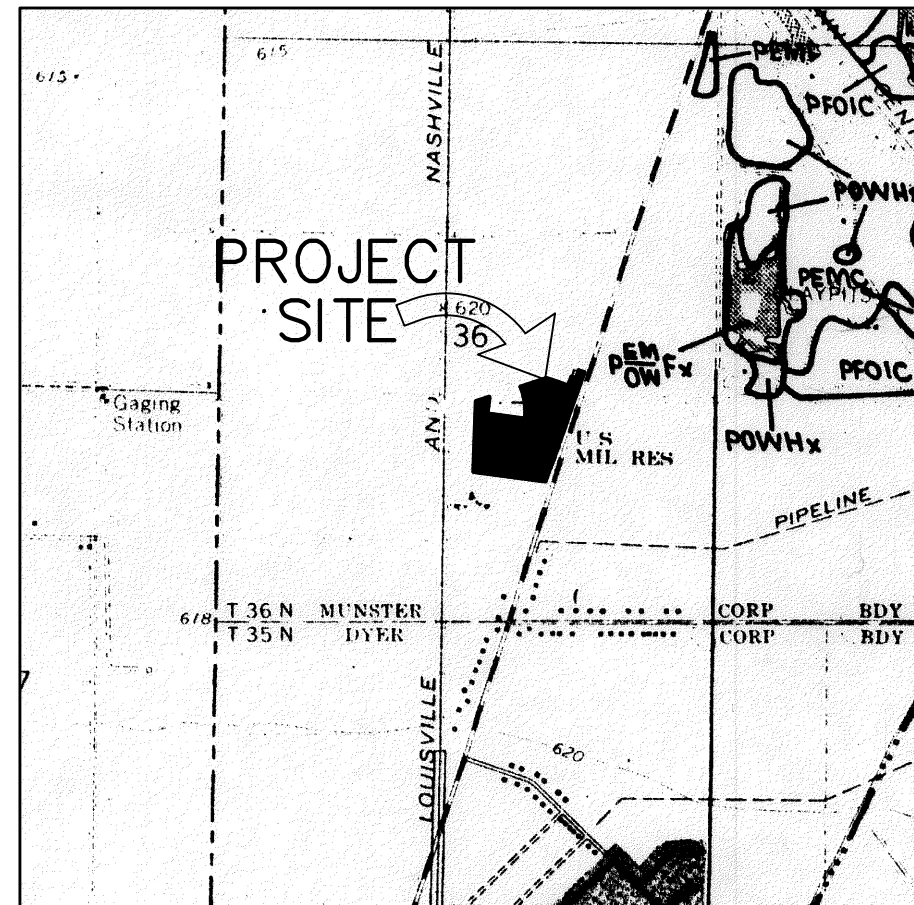
DIMENSIONS										
Pipe Diameter	A	B	C	D	E	F	G	H	J	K
18"	15"	5"	3"	2 Sp. @ 4"x8"	3 Sp. @ 5"x27"	2-6"	3-0"	3-10"	13"	1 Sp. @ 12"x12"
24"	17"	5"	0"	4 Sp. @ 4"x16"	4 Sp. @ 5"x36"	3-6"	4-0"	4-10"	15"	1 Sp. @ 12"x12"
18"	27"	5"	2.5"	3 Sp. @ 4"x12"	5 Sp. @ 5"x36"	4-0"	4-0"	5-10"	15"	2 Sp. @ 15"x15"
30"	19"	3"	3"	3 Sp. @ 4"x12"	5 Sp. @ 5"x36"	4-6"	5-0"	5-10"	15"	2 Sp. @ 12"x24"
36"	21"	5"	2"	4 Sp. @ 4"x16"	8 Sp. @ 5"x36"	5-6"	6-0"	7-0"	18"	2 Sp. @ 15"x30"
42"	22"	6"	0"	7 Sp. @ 5"x21"	7 Sp. @ 5"x54"	6-0"	6-6"	7-6"	13"	3 Sp. @ 13"x39"



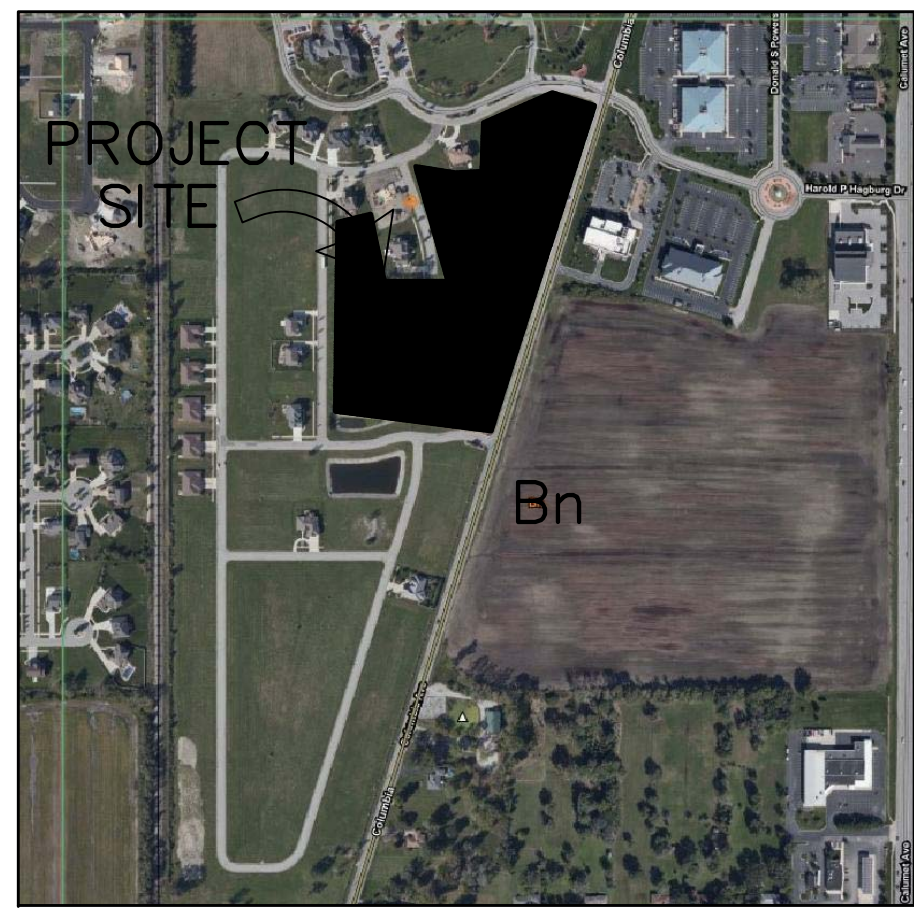
COMMUNITY RESOURCES, INC. PHASE TWO AN ADDITION TO THE TOWN OF MUNSTER, LAKE COUNTY, INDIANA



VICINITY MAP
NOT TO SCALE



WETLAND MAP
* NATIONAL WETLANDS INVENTORY
1981 ISSUE, MAP PG. 10



SOIL MAP

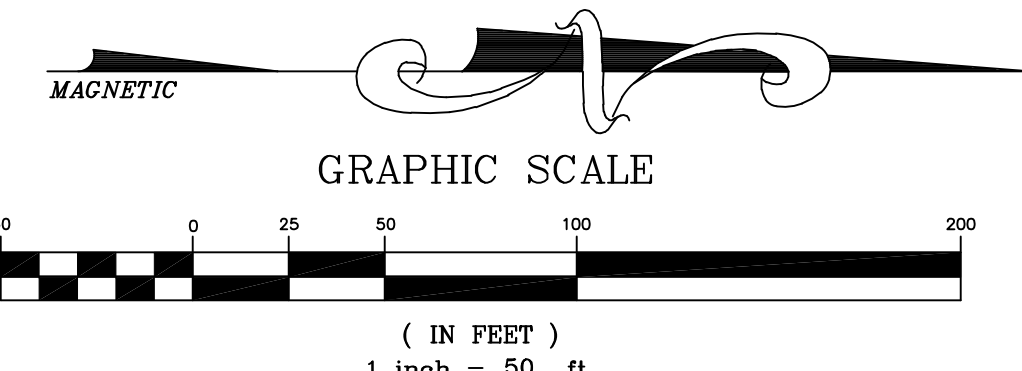
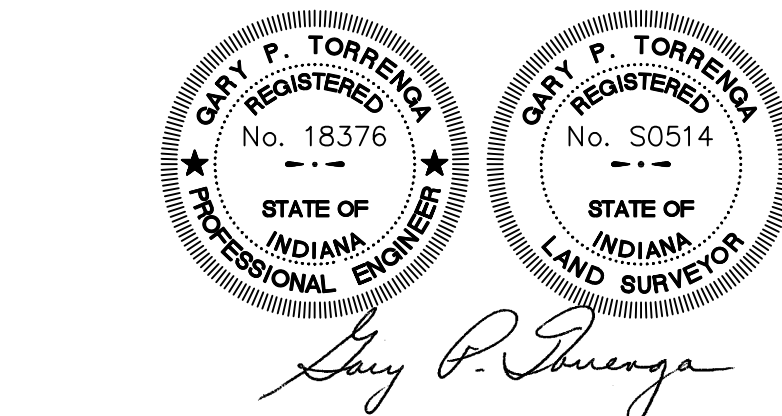
* LAKE COUNTY SOIL SURVEY, USDA
1992 REISSUE, MAP PG. 15

SOIL TYPE LEGEND

Bn Bono Silty Clay (0 to 2 Percent Slopes)

- NOTES:
1. THIS PROPERTY IS LOCATED IN FLOODPLAIN ZONE "B", AREA BETWEEN THE 100-YEAR AND 500-YEAR FLOOD. THERE ARE NO FLOODWAYS AND FLOODWAY FRINGS ON THIS PROPERTY, AS PER FLOOD INSURANCE RATE MAP (FIRM) DATED MAY 16, 1983 IN COMMUNITY PANEL NUMBER 180139 0003 B.
 2. HYDROLOGIC UNIT CODE: 07120003030030 HART DITCH (PLUM CREEK)-DYER DITCH
 3. NO STATE OR FEDERAL WATER QUALITY PERMIT ARE REQUIRED FOR THE PROJECT SITE.
 4. AT PRESENT THE SITE IS PRIMARILY COMMERCIAL AREA, WITH EXISTING VEGETATIVE BUILDING, ASPHALT DRIVE AND PARKING, AND WELL MANICURED LAWN.
 5. THERE IS NO PRESENCE OF HYDRIC SOILS ON THIS PROPERTY.
 6. THERE ARE NO EXISTING WETLAND AREAS ON THIS PROPERTY, AND ITS SURROUNDING AREAS AS CLASSIFIED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR U.S. FISH AND WILDLIFE SERVICE, NATIONAL WETLANDS INVENTORY.
 7. THE PROPOSED DETENTION POND ARE A POTENTIAL SOURCE OF STORMWATER DISCHARGE ENTERING THE GROUNDWATER.
 8. SOIL STOCKPILES, BORROW AND DISPOSAL AREAS FOR THIS PROJECT ARE LOCATED WITHIN THE PROJECT SITE.
 9. AREA WHERE THE PROPOSED DETENTION POND, ROADS, STORM SEWERS, SANITARY SEWERS, WATER MAINS AND OTHER UTILITIES WILL BE DISTURBED DURING CONSTRUCTION. IN ALL OTHER AREAS, EXISTING VEGETATIVE COVER WILL BE PRESERVED.
 10. AN EROSION CONTROL AND GEOSYNTHETIC MATERIAL SUPPLIES LIST IS AVAILABLE AT THE SCS OFFICE AND SHALL BE CONSULTED BEFORE PURCHASING THE REQUIRED EROSION CONTROL ITEMS.
 11. PERMANENTLY SEED ALL FINE GRADE AREAS (e.g., LANDSCAPE BERMS, DRAINAGE BERMS, DRAINAGE SWALES, EROSION CONTROL STRUCTURES, ETC.) AS EACH IS COMPLETED AND ALL AREAS WHERE ADDITIONAL WORK IS NOT SCHEDULED FOR A PERIOD OF MORE THAN A YEAR. SEEDING: OPTIMUM SEEDING DATED ARE MARCH 1 - MAY 10 AND AUGUST 10 - SEPTEMBER 30. SEEDING DATES BETWEEN MAY 10 AND AUGUST 10, MAY NEED TO BE IRRIGATED. FOR SEEDING RECOMMENDATIONS SEE PRACTICE 3.12, INDIANA HANDBOOK FOR EROSION CONTROL.
 12. A TREE CONSERVATION AND PROTECTION PLAN SHOULD BE IN PLACE TO INSURE SURVIVAL OF DESIRABLE TREES FROM THE EFFECTS OF COMPACTION, GRADING DAMAGE, WOUND PREVENTION AND A PLAN FOR TREE REPAIRS FROM CONSTRUCTION ACTIVITIES. SEE THE SOIL CONSERVATION SERVICE OR THE STATE FORESTER FOR ASSISTANCE.

- LEGEND
- TEMPORARY GRAVEL ENTRANCE/EXIT
 - SILT FENCE (SEDIMENT FENCE)
 - TEMPORARY SEEDING
 - EROSION CONTROL BLANKET (SURFACE-APPLIED)
 - STRAW BALE DROP INLET PROTECTION
 - SOIL STOCK PILE
 - BASKET CURB INLET PROTECTION



TORRENGA ENGINEERING, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
907 RIDGE ROAD, MUNSTER, INDIANA 46321
Tel. No.: (219) 836-8918
website: www.torrengea.com

COMMUNITY RESOURCES, INC.
PHASE TWO
STORM WATER POLLUTION
PREVENTION PLAN (SWPPP)

CLIENT: Community Resources, Inc.
905 Ridge Road
Munster, Indiana 46321
JOB NO: 2021-5032
SHEET C-6.0
DATE: 09-24-2021
REVISIONS:
12-10-2021
11-29-2021
10-21-2021
SCALE: 1"=50'

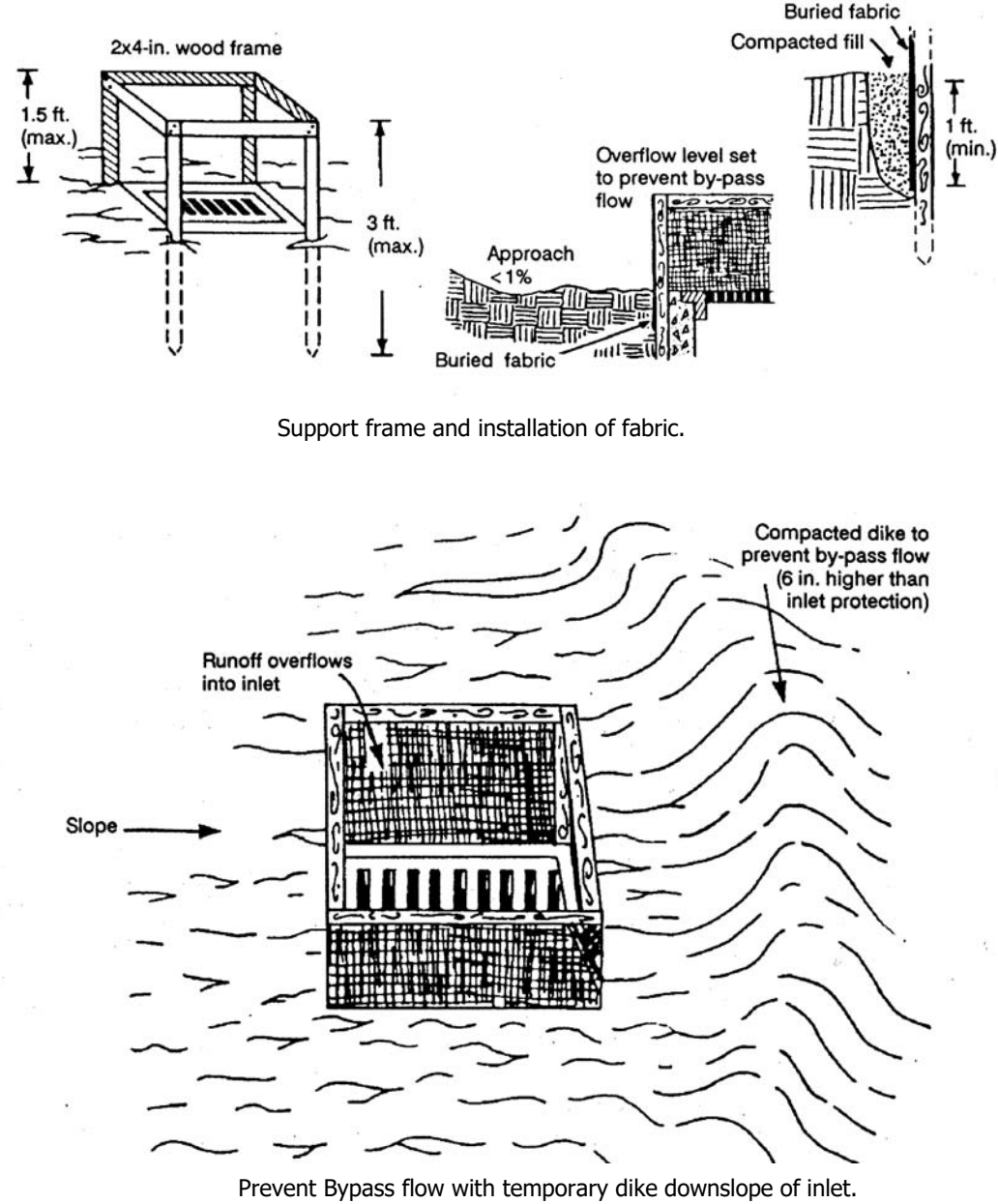
FABRIC DROP INLET PROTECTION

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

- Requirements:**
- 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:**
- 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.)
 - 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 inlet, then stabilize.



Construction Sequence for Building Site Erosion Control Practices

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 preservation.
- Place plastic mesh or snow fence barriers around the tree's drip-line 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 important that perimeter controls are in place before any 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 sediment.

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 equivalent measures before disturbing soil.
- Protect on-site storm sewer drop inlets with silt fence material, straw bales, or equivalent measures before disturbing soil.

STEP 3. PREPARE THE SITE FOR CONSTRUCTION.

Prepare the site for construction and for installation of utilities. Make sure all contractors (especially the excavating contractor) are aware of areas to be protected.

Subsage 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. Locate the stockpiles away from any downspout street, driveway, stream, lake, wetland, ditch, or drainage-way.
- Downspout street, stream, lake, wetland, ditch, or drainage-way.
- Immediately after stockpiling, temporary seed the stock piles with annual rye or winter wheat and/or place sediment barriers around the perimeter of the piles.

STEP 4. BUILD THE STRUCTURE(S) AND INSTALL THE UTILITIES.

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

Install Downspout Extenders.

- Although not required, downspout extenders are highly recommended as a means of preventing lot erosion from roof runoff.
- Add the extenders as soon as the gutters and downspouts are installed.
- Be sure the extenders have a stable outlet, such as the street, sidewalk, or a well vegetated area.

Seed or Sod Bare Areas.

- Contact local seed suppliers or professional landscaping contractors for recommended seeding mixtures and rates.
- Follow recommendations of a professional landscaping contractor for installation of seed.
- Water newly seeded/sodded areas every day or two to keep the soil moist. Less watering is needed once grass is 2 inches tall.

Mulch Newly Seeded Areas.

- Spread straw mulch on newly seeded areas, using 1½ to 2 bales of straw per 1,000 square feet.
- On flat or gently sloping land, anchor the mulch by crimping 1/2 to 4 inches into the soil. On steep slopes, anchor the mulch with netting or tackifiers. An alternative to anchored mulch would be the use of erosion control blankets.

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

STEP 6. REVEGETATE THE BUILDING SITE.

Immediately after all outside construction activities are completed, stabilize the lot with seed, sod, 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 over roughgraded areas.
- Fertilize and lime according to soil test results or recommendations of a seed supplier or a professional landscaping contractor.

Seed or Sod Bare Areas.

- Contact local seed suppliers or professional landscaping contractors for recommended seeding mixtures and rates.
- Follow recommendations of a professional landscaping contractor for installation of seed.
- Water newly seeded/sodded areas every day or two to keep the soil moist. Less watering is needed once grass is 2 inches tall.

Mulch Newly Seeded Areas.

- Spread straw mulch on newly seeded areas, using 1½ to 2 bales of straw per 1,000 square feet.
- On flat or gently sloping land, anchor the mulch by crimping 1/2 to 4 inches into the soil. On steep slopes, anchor the mulch with netting or tackifiers. An alternative to anchored mulch would be the use of erosion control blankets.

STEP 7. REMOVE REMAINING TEMPORARY CONTROL MEASURES.

Once the soil and/or vegetation is well established, remove any remaining temporary erosion and sediment control practices, such as:

- Downspout extenders. (Or shorten to outlet onto the vegetated areas, allowing for maximum infiltration).
- Storm sewer inlet protection measures.

EROSION CONTROL PRACTICES 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.

ROCK CHUTE

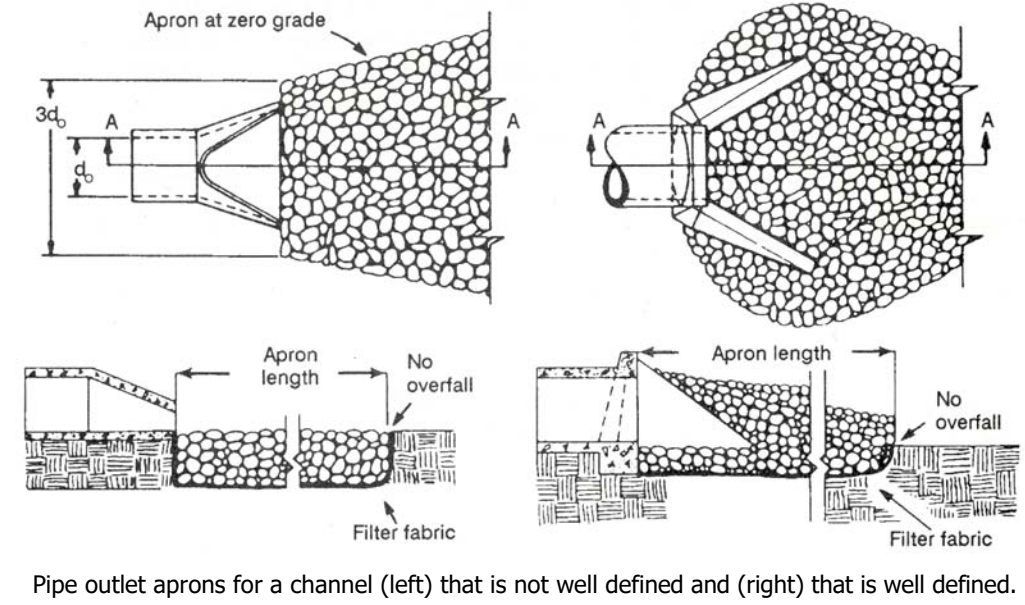
Purpose: To protect slopes, stream banks and channels, which are subject to erosion. Where runoff velocity is great, at the outlet pipe of a detention basin, channel or culvert.

- Requirements:**
- 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

- Installation:**
- Subgrade Replacement:
 - Remove brush, trees, stumps, and other debris.
 - Excavate only deep enough for both filter and riprap.
 - Filter Placement:
 - 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.
 - If fabric is damaged, remove the riprap and repair damaged area by 12 inches.
 - RipRap Replacement:
 - 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.

- Maintenance:**
- Inspect periodically for displaced rock material, slumping, and erosion at edges, especially down stream or down slope.

- Note:**
- At owner's discretion, outlet protection & grade stabilization Scour Stop TM may be substituted for this practice.



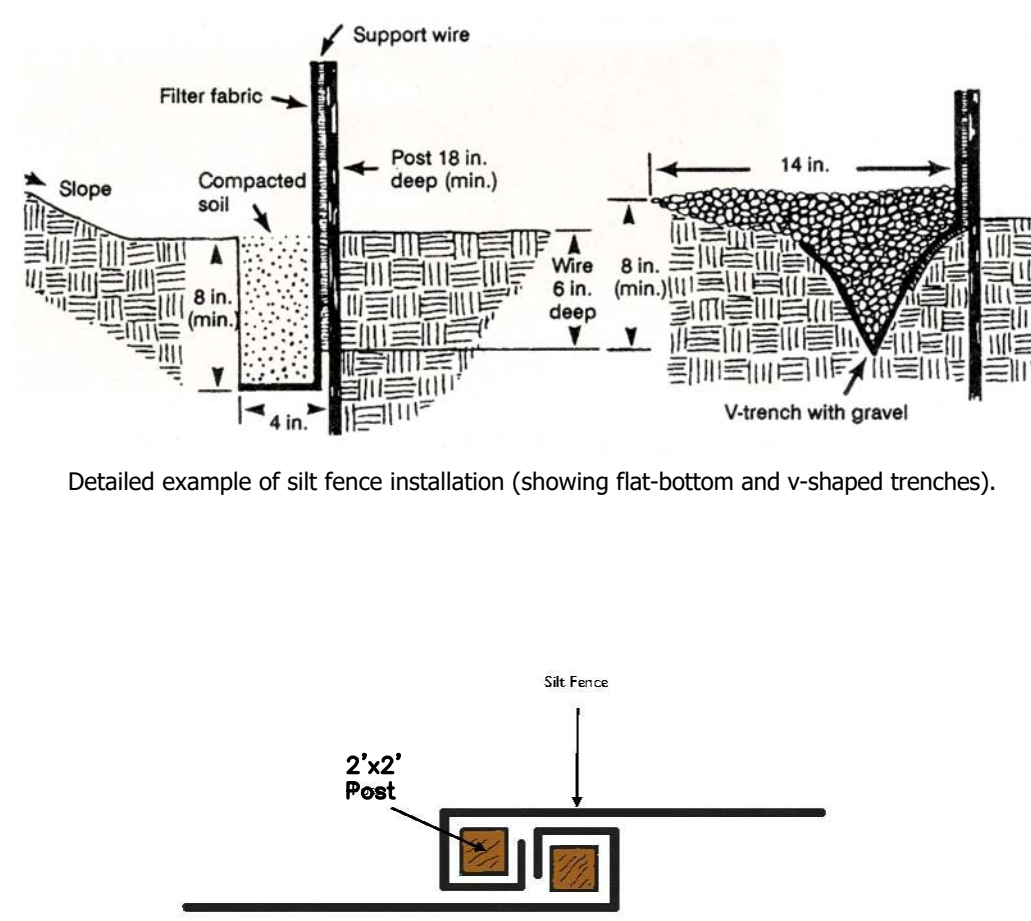
SILT FENCE

Purpose: To retain sediment from small sloping disturbed areas by reducing the velocity of sheet flow.

- Requirements:**
- Trench: 8" minimum depth, flat bottom or v-shaped, filled with compacted soil or gravel to bury lower portion of support wire and/or fence fabric.
 - Support posts: 2" x 2" hardwood posts set at least 1 foot deep.
 - 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 to depth of impounded water does not exceed 1.5 feet at any point along fence line.
 - Support wire : (optional) 14 gauge, 6" mesh wire fence. (needed if using standard-strength fabric)
 - 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.

- Installation:**
- Along the entire intended fence line, maintain contour as much as possible, dig an 8" deep flat bottom or v-shaped trench.
 - On the downslope side of the trench, drive 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)
 - Run a continuous length of Geotextile fabric along upslope side of posts.
 - If a joint is necessary, nail the overlap to the nearest post with a wood lath.
 - Place the bottom 1' of fabric in the 8" deep trench, extending the remaining 4" of fabric toward the upslope side.
 - Backfill the trench with compacted earth.

- Maintenance:**
- Inspect silt fence periodically and after each storm event.
 - If fence fabric tears, starts to decompose, or becomes ineffective, replace the affected portion.
 - 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.



Silt Fence Wrap Joint Detail

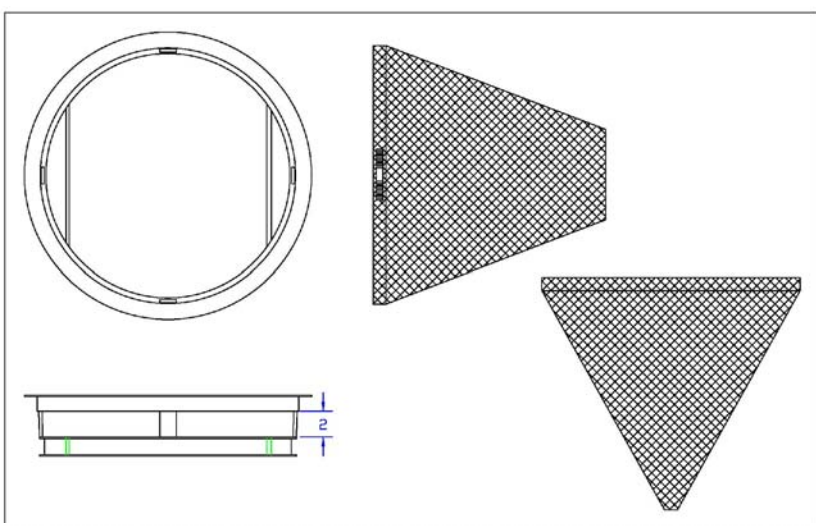
BASKET INLET / CATCH BASIN PROTECTION

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** by Nylotap 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 1/2 inch 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 1/2"x1/2"x1/2" angle. Base rim Fabricated from 1/2"x1/2" channel. Hangers and suspension brackets Fabricated from 1/2"x1/2" flat stock. All steel conforming to ASTM-A36.
SEDIMENT BAG: Fabricated from 4 oz./sq.yd. non-woven polypropylene geotextile reinforced with polyester mesh. Bag secured to base rim with a stainless steel band and lock.
TYPICAL INLET/CATCH BASIN PROTECTION INSERT DETAIL

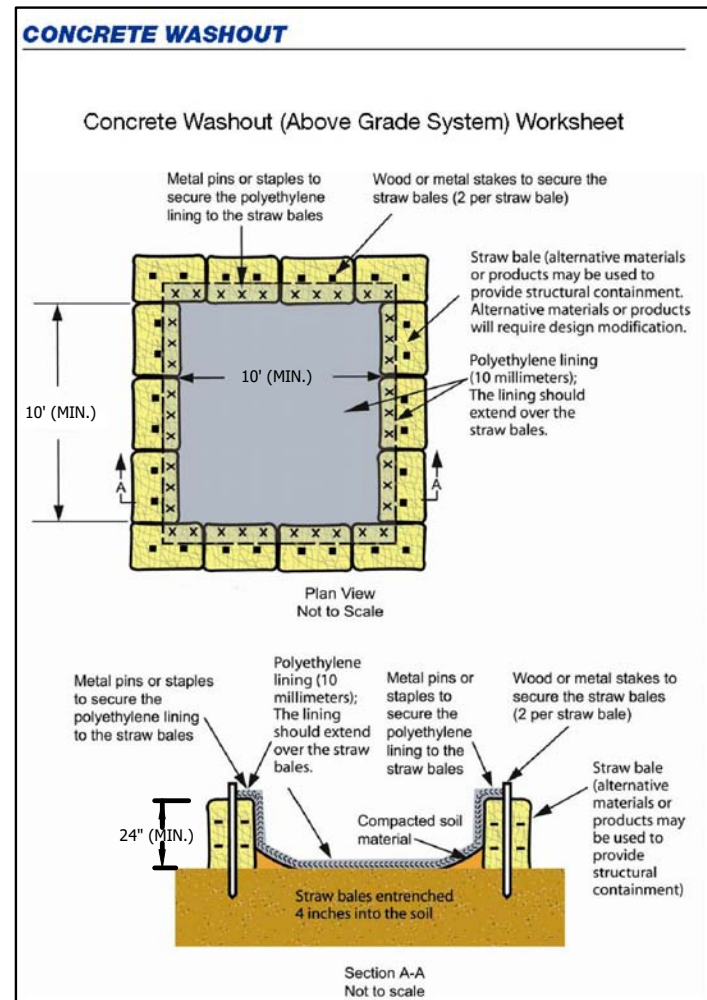
CONCRETE WASHOUT

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

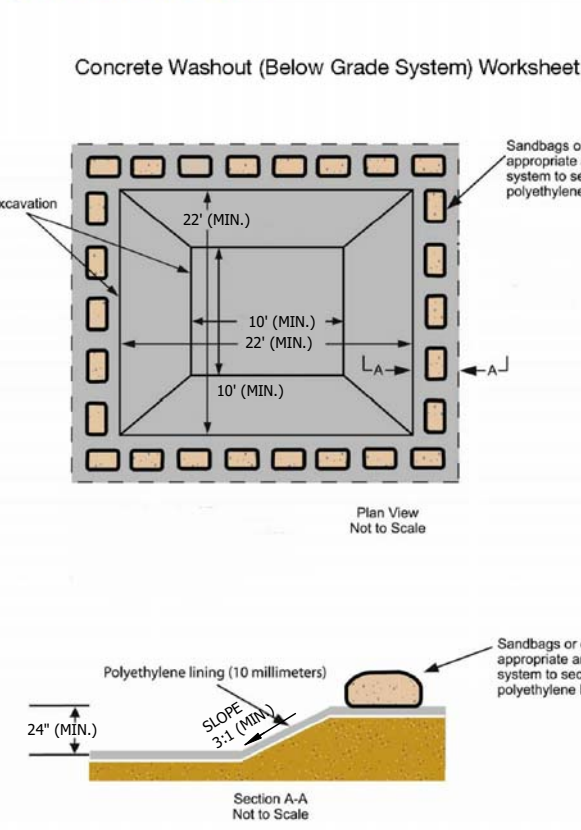
- Requirements:**
- Locate concrete washout systems at least 50 feet from any creeks, wetlands, ditches, karst features, or storm drains/natural conveyance systems.
 - Locate concrete washout systems in relatively flat areas with established vegetative cover and do not receive runoff from adjacent land areas.
 - Locate in areas that provide easy access for concrete trucks and other construction equipment.
 - Locate away from other construction traffic to reduce the potential for damage to the system.
 - 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.
 - Orange safety fencing or equivalent.
 - Straw bales, sandbags (bags should be ultraviolet-stabilized geotextile fabric), soil material, or other appropriate materials that can be used to construct a containment system (above grade systems).

- Installation:**
- Dependent upon the type of system, either excavate the pit or install the containment system.
 - 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.
 - Install the polyethylene lining. For excavated systems, the lining should extend over the 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.
 - Place flags, safety fencing, or equivalent to provide a barrier to construction equipment and other traffic.
 - 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.

- Maintenance:**
- Inspect daily and after each storm event.
 - Inspect the integrity of the overall structure including, where applicable, the containment system.
 - Inspect the system for leaks, spills, and tracking of soil by equipment.
 - Inspect the polyethylene lining for failure, including tears and punctures.
 - Once concrete wastes harden, remove and dispose of the material.
 - Excess concrete should be removed when the washout system reaches 50 percent of the design capacity. Use of the system should be discontinued until appropriate measures can be initiated to clean the structure. Prefabricated systems should also utilize this criterion, unless the manufacturer has alternate specifications.
 - 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 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.
 - The plastic liner should be replaced after every cleaning; the removal of material will usually damage the lining.
 - The concrete washout system should be repaired or enlarged as necessary to maintain capacity for concrete waste.
 - 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.
 - Prefabricated units are often pumped and the company supplying the unit provides this service.
 - 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.
 - 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 system.
 - Holes, depressions and other land disturbances associated with the system should be backfilled, graded, and stabilized.



CONCRETE WASHOUT



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.
 - 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.
 - Moisture content not to exceed 45 percent by dry weight.

- Aggregate:**
- INDOT CA No. 5 or No. 8 aggregate.

- Straw, Excelsior, etc.:**
- 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:**
- 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.)
 - 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.
 - 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:
 - 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 calendar 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:

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

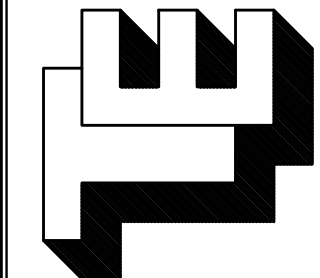
Storage Area

- Free of stumps, rock, and construction debris.
- Stockpile covered with vegetation or a tarp.
- Surrounded by a sediment barrier or sediment filter.
- 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 future land 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 disk.
 - 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.



TORRENGA ENGINEERING, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
907 RIDGE ROAD, MUNSTER, INDIANA 46321
website: www.torrenga.com
Tel. No.: (219) 836-8918

COMMUNITY RESOURCES, INC.
PHASE TWO
SWPPP DETAILS

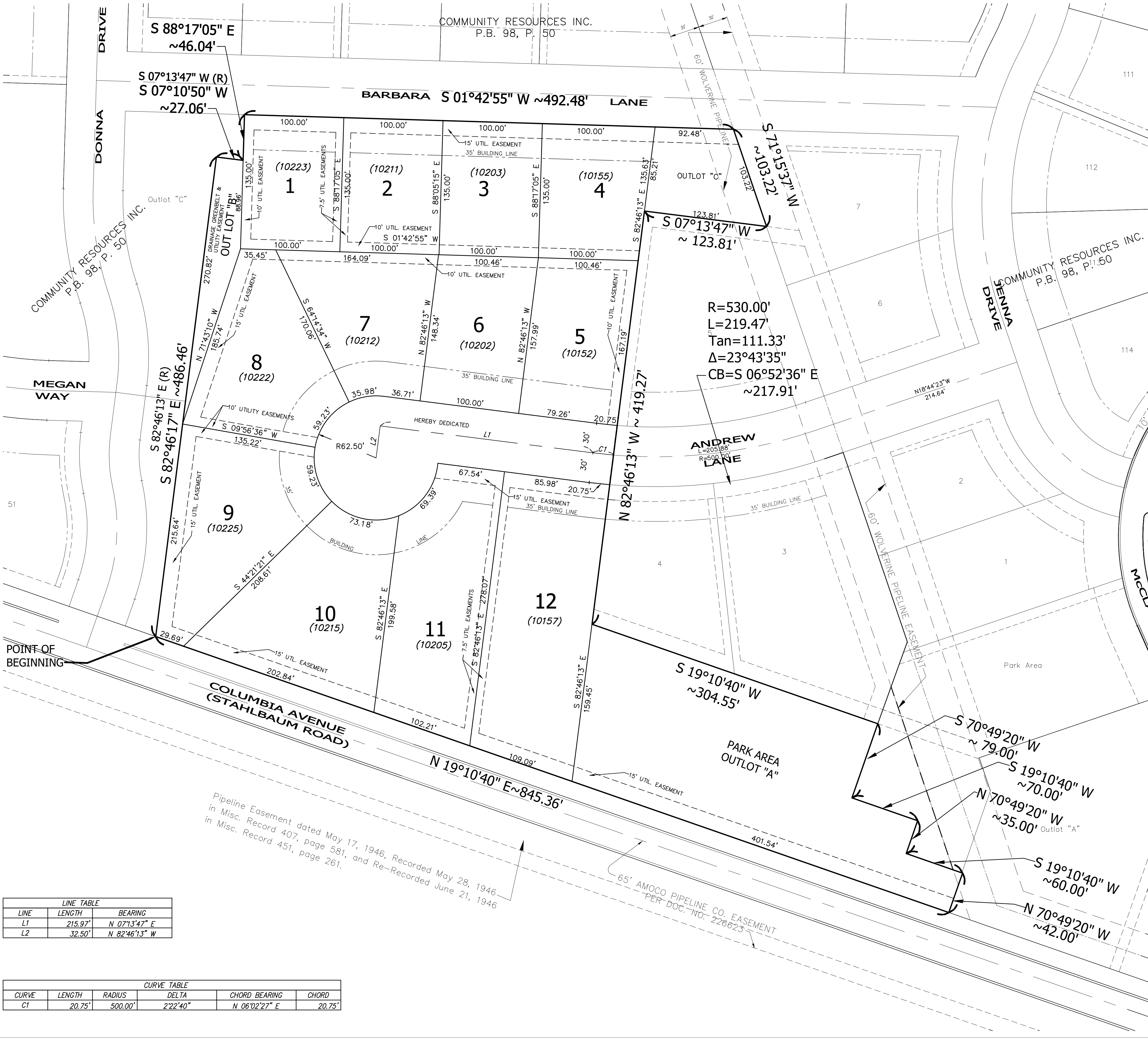
CLIENT: Community Resources, Inc.
905 Ridge Road
Munster, Indiana 46321
JOB NO: 2021-5032
SCALE: NTS
REVISIONS: DATE: 09-24-2021

SHEET
C-7.1

FILE NO:Z\2021-5032 Community Resources Phase 2 Munster.dwg 2021-5032.dwg 9/24/2021 8:53:38 AM CDT

LINE TABLE		
LINE	LENGTH	BEARING
L1	215.97'	N 07°13'47" E
L2	32.50'	N 82°46'13" W

CURVE TABLE				
CURVE	LENGTH	RADIUS	DELTA	CHORD BEARING
C1	20.75'	500.00'	2°22'40"	N 06°02'27" E



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 Northeastlymost 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°46'13" 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 _____,

By: _____ Attest: _____
Plan Comm. President Plan Comm. Secretary

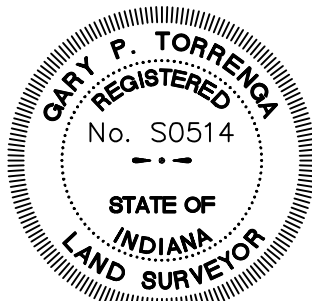
STATE OF INDIANA }
COUNTY OF LAKE }

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.

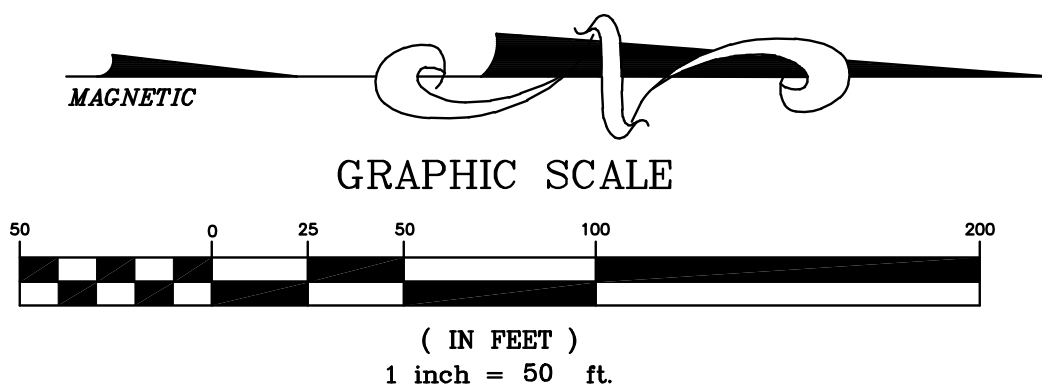
Witness my hand and Seal this _____ day of _____,

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 damage 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.



TORRENGA ENGINEERING, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
907 RIDGE ROAD, MUNSTER, INDIANA 46321
Tel. No.: (219) 836-8918
website: www.torrenga.com

COMMUNITY RESOURCES, INC.
PHASE TWO
FINAL PLAT

CLIENT: Community Resources, Inc.
905 Ridge Road
Munster, Indiana 46321
JOB NO: 2021-5032
SCALE: 1" = 50'
REVISIONS: DATE: 09-24-2021

SHEET
1 OF 1