

#2015-66 Casey's Gas Station – Special Use Permit Project Review for Planning and Zoning Commission

Meeting Date: February 3, 2016

3.

Requests:

1. Special Use Permit to allow a Gasoline Service Station and Convenience Store with a Gasoline Electronic Pricing signs.

2. Final Plat of Subdivision for 2 lots.

Variations from:

a. Article 2-400 13 c and d. Special Use Criteria for Gasoline Stations from the requirements to construct a solid fence adjacent to residential and a peaked canopy.

b. Article 4-200 Parking and Loading from the required on-site parking to allow 15 spaces, a variation of 2

spaces.

c. Article 4-1000 Signs to allow 252.05 square feet of wall signage, which is over 150 square feet of signage allowed, a variation of 102.05 square feet.

d. Article 5 Subdivision approving a deferral from the requirement to bury the overhead utility lines and install sidewalk along the frontage, until such time that an area wide program is established.

Location: 639 E. Terra Cotta Avenue (Route 176)

Acreage: Approximately 5 acres

Existing Zoning: B-2 General Commercial

Surrounding Properties: North: B-2 General Commercial

South: R-1 Single Family

East: B-2 General Commercial West: B-1 (McHenry County)

Staff Contact: Elizabeth Maxwell (815.356.3615)

Background:

• The site is currently vacant. It was the former location of the Crystal Lake Rib House.

• The proposed development is for a Casey's gas station and convenience store featuring 16 gas filling pumps and a 4,558 square foot convenience store.

Development Analysis:

Land Use/Zoning

- The site is currently zoned B-2 General Commercial. This is the appropriate zoning district for a gasoline service station, which requires a Special Use Permit in this district.
- The land use map shows the area as Commerce. This is an appropriate land use designation for Gasoline Service Station and Convenience Store.
- The petitioner has submitted the Environmental Impact Statement. The Environmental Impact Statement was prepared by St. John Mittelhauser & Associates, Inc. under contract with the City of Crystal Lake and according to our scope. The statement says, "Based on the design of the proposed station, there is no reason to expect that day to day operations of the proposed station will result in a release of sufficient magnitude to negatively impact the soil and groundwater surrounding the Site."

Site Layout

- The property is being subdivided, with the west half to be developed in the future. The east half would be the Casey's gas station and convenience store. Two access points are shown, one from Route 176 and one from Terra Cotta Road.
- A new gas canopy with 16 fueling stations is illustrated in front along Route 176 with the 4,558 square-foot convenience store behind.
- Casey's offers limited convenience store grocery items as well as hot pizza and sub sandwiches. They also sell packaged beverages.
- The trash enclosure has been located behind the building.

Building Elevations

- The convenience store features brick with soldier course banding all the way around the building providing architectural accents on all four sides.
- Large columns accentuate the front entry which projects from the main façade of the building.
- A light-colored EIFS with a dark colored top cap finish off the top of the building.
- New buildings are required to meet at least 6 of the architectural design criteria; this building meets 6 of the 10 criteria. Casey's has done a great job presenting a building that looks nice and meets the UDO requirements.

Parking

- Parking for a convenience store and gas station is as follows: 1/350 sq. ft. of convenience store space and 1 per every 4 gas pumps. This requires a total of 17 parking spaces.
- The site has provided 15 parking spaces, requiring a variation from the two required spaces.

Landscape

• The petitioner is removing trees on the site, the removal equates to 40 replacement trees. 43 new trees are being added to the site including the 11 street trees in the right-of-way.

- Foundation base landscape has been added around the building on three sides. The only side that does not have the foundation base landscape is the west side where the loading area is.
- Trees and shrubs need to be added to the landscape islands in the parking lot. A condition of approval has been added regarding this.

<u>Signage</u>

- A new free-standing sign is proposed at the corner of Route 176 and Terra Cotta Road. The proposed sign has a copy area of 38.49 square feet, but the overall brick structure is 117 square feet. Staff has added a condition of approval to work with staff to reduce the amount of brick around the sign.
- Sites are permitted a total of 150 sq. ft. of wall signage. For gas station properties this also includes the canopy signage. The petitioner has proposed 252.05 square feet of signage.

Findings of fact:

FINAL PLAT of SUBDIVISION

The petitioner is requesting Final Plat approval. The subdivision is a creating two lots, one for Casey's Gas Station and one to be sold to a future user. Both lots meet the requirements for the B-2 district. Two shared-access points have been planned, one from Route 176 and one from Terra Cotta Road. An access easement has been created over this shared access drive. The detention would also be shared between the two lots.

SPECIAL USE PERMIT

The petitioner is requesting approval of a Special Use Permit to allow a Gasoline Service Station and Convenience store and Gasoline Electronic Pricing Sign. A Special Use requires separate review because of its potential to impact surrounding properties and the orderly development of the City.

Section 2-400 B General Standards for all special uses in the Unified Ordinance establishes standards for all special uses in Crystal Lake. Briefly, the criteria are as follows:

1.	The use is necessary or desirable, at the proposed location, to provide a service or facility which will further the public convenience and general welfare.
	Meets Does not meet
2.	The use will not be detrimental to area property values.
3.	The use will comply with the zoning districts regulations.
4.	The use will not negatively impact traffic circulation. Meets

5.	req ser	use will not negatively impact public utilities or municipal service delivery systems. If ired, the use will contribute financially to the upgrading of public utilities and municipal ice delivery systems. Meets Does not meet
6.	_	use will not negatively impact the environment or be unsightly. Meets
7.	and	use, where possible will preserve existing mature vegetation, and provide landscaping architecture, which is aesthetically pleasing, compatible or complementary to bunding properties and acceptable by community standards. Meets Does not meet
8.		use will meet requirements of all regulating governmental agencies. Meets Does not meet
9.	_	use will conform to any conditions approved as part of the issued Special Use Permit. Meets
10.		use will conform to the regulations established for specific special uses, where applicable. **Meets** Does not meet**
		e Stations have specific Special Use Criteria they have to meet. Gasoline stations must with the following standards:
	1.	Location: Gasoline stations are not permitted within the City's wellhead protection areas. Stations in the Crystal Lake watershed require a site specific analysis by the City's watershed consultant Meets Does not meet
		The proposed station is outside of the wellhead protection area. A map is attached.
	2.	Environmental impact: No gasoline station shall commence operations unless it has first provided an environmental impact statement (EIS) from a qualified expert in the related field that the use will not negatively affect ground water resources or contaminate the soil.
		Meets Does not meet
		An EIS has been provided, which says that during normal operations no contamination is expected.
	3.	Screening: Gasoline stations adjacent to residential properties shall provide a 6-foot tall solid screen consisting of a solid wooden fence, in accordance with the provisions of Article 4-700, Fences, Walls and Screening or opaque landscaping along the perimeters

	of the property abutting the residential district or use, in accordance with the provisions of Article 4-400, Landscaping and Screening Standards.
	☐ Meets ☐ Does not meet
	The petitioner has designed the site that the large open detention area is adjacent to the residential property. The landscape plan illustrates trees along the north edge of the detention area. The back of the convenience store would face the residential property. The petitioner is requesting a variation from this criterion.
4.	Canopy: Flat canopies are not permitted. Canopies must have a minimum 4:12 pitch (Amended per Ord. 6970, 11-5-2013). The edge of the pump canopy shall be setback at least 15 feet from all property lines.
	The petitioner is requesting a variation from this criterion. The building has been designed with a flat top parapet style roof. This flat style gas canopy has been designed to match the style of the building.
5.	Curb cuts: There shall be a maximum of 2 curb cuts per property. Corner lots shall be limited to 1 curb cut per street frontage. Curb cuts for corner lots shall be located at least 75 feet from the intersection, or as deemed appropriate by the City Engineer.
	Petition meets this criterion.
6.	Vending machines: One vacuums and one air compressors shall be permitted on-site. Vending machines are treated as outside sales and display. Refer to the handout on Outdoor Sales, Service, Storage and Display available through the Planning and Economic Development Department for further clarification.
	Petitioner would comply with this.
7.	Outside sales: Outside product display and sales of seasonal items are prohibited. Propane tanks stored in 1 locked metal cage are not treated as outside sales and permitted subject to the approval of the City's Fire Prevention Bureau. For any other outside display and sales, refer to the handout on Outdoor Sales, Service, Storage and Display available through the Planning and Economic Development Department for further clarification.
	Petitioner would comply with this.
8.	Monitoring: Monitoring wells finished at appropriate depths and locations best suited to

detect a contaminate plume are required to be designed and located by a groundwater

	professional Engineer.	for stations within the	Crystal Lake watershed or as determined by the City
	Meets	Does not	meet
	No monitorin	ng wells are required.	
	Use Permit.	_	pricing signs must be requested as part of the Special
	Meets	☐ Does not	meet
	Sign has been	n requested as part of t	he Special Use Permit.
The and	d the site must me	specific design criteria eet a minimum of 6 of s listed and has made	a for new development. There are 10 criteria groups those. Staff has reviewed the proposed development a determination that the project meets 6 of 10 of the
1.	Building Form Meets	Does not meet	⊠ Not Applicable
2.	Building Massin Meets	g and Articulation Moes not meet	☐ Not Applicable
	Petitioner meets columns.	s all sub criteria exce	ept has not provided the 2-foot projections on the
3.	Rooflines and Pa	nrapets Does not meet	☐ Not Applicable
4.	Building Materia Meets [must meet a-f to	als Does not meet meet this criteria]	☐ Not Applicable
5.	Roof Materials Meets	Does not meet	⊠ Not Applicable
6.	Building Colors Meets	Does not meet	☐ Not Applicable
7.	Building Fenestr Meets	ation Does not meet	☐ Not Applicable

8.	Entran Me	ce Design	Does not meet	☐ Not Applicable	
9.	Canop	y/Awning i	Design Does not meet	⊠ Not Applicable	
10.	Overal Me	l Façade D ets	esign Does not meet	☐ Not Applicable	
ZO	NING		ICE VARIATION sesting several variations		
	a.		ent to construct a solid fe	cial Use Criteria for Gasoline Stations from nce between a gas station and the peaked roof of	
	b.		200 Parking and Loadi variation of 2 spaces.	ng from the required on-site parking to allow	15
	c.		9	2.05 square feet of wall signage, which is over ariation of 102.05 square feet.	150
	d.	utility line		deferral from the requirement to bury the overhong the frontage, until such time that an area v	
var hare a ze a u	iation. dship c oning h nique s	The grandaused by the transfer of the transfer	ting of a variation rests he Ordinance requirement e specific zoning require	pecific standards for the review and approval upon the applicant proving practical difficulty at as they relate to the property. To be considered to set backs, lot width and lot area must craresponsibility of the petitioner to prove hardship hearing.	y or ered eate
Wh	Ordina a.The s n	ance would e plight o urrounding aarrowness	I result in a practical diff f the property owner i s or conditions of the	dusively that literal enforcement of any provision culty or particular hardship because: Is due to unique circumstances, such as, unuproperty involved, or by reason of exception a zoning lot, or because of unique topography	sual onal
	b. <i>A</i>	Also, that th	ne variation, if granted, w	rill not alter the essential character of the locality et	y.

For the purposes of supplementing the above standards, the Commission may take into consideration the extent to which the following facts favorable to the application have been established by the evidence presented at the public hearing:

а.Т	That the conditions upon which the application for variation is based would not be applicable generally to other property within the same zoning classification; Meets Does not meet
b.	That the alleged difficulty or hardship has not been created by any person presently having interest in the property; \[\begin{align*} \textit{Meets} & \textit{Does not meet} \end{align*} \]
с.Т	That the granting of the variation will not be detrimental to the public welfare or injurious to other property or improvements in the neighborhood in which the property is located; or
d.	That the proposed variation will not impair an adequate supply of light or air to adjacent property, will not unreasonably diminish or impair the property values of adjacent property, will not unreasonably increase congestion in the public streets, substantially increase the danger of fire or otherwise endanger public safety.

Where the evidence is not found to justify such conditions, that fact shall be reported to the City Council with a recommendation that the variation be denied.

Comprehensive Land Use Plan 2020 Vision Summary Review:

The Comprehensive Plan designates the subject property as Commerce, which allows for existing and future business uses. The following goal is applicable to this request:

Land Use - Commerce

Goal: Maintain a dynamic and sustainable base of commercial uses that provides a solid tax base, goods, services and jobs to the City as well as the surrounding region through coordination in the Unified Development Ordinance, Comprehensive Land Use Plan and Economic Development Strategic Plan.

This can be accomplished with the following supporting action:

Supporting Action: Promote, retain and attract businesses that provide a diverse tax base.

Success Indicator: The number of new chain stores.

Recommended Conditions:

If a motion to recommend approval of the petitioner's request is made, the following conditions are recommended:

- 1. Approved plans, reflecting staff and advisory board recommendations, as approved by the City Council:
 - A. Application (ARC Design, received 12/30/15)
 - B. Plat of Subdivision (ARC Design, undated, received 01/22/16)
 - C. Site Plans (ARC Design, dated 1/19/16, received 1/22/16)
 - D. Elevations (Red Leonard Associates, undated, received 12/18/15)
 - E. Signage (Persona, dated 02/27/12, received1/21/16)
 - F. Truck Turning Plan (ARC Design, dated 08/27/15, received 01/21/16)
 - G. Stormwater Management Report (ARC Design, undated, received 12/16/15)
 - H. Environmental Impact Statement (St. John-Mittelhauser, dated 01/25/16, received 01/26/16)
- 2. Site and Landscape Plan
 - A. Add trees and shrubs to the landscape islands to meet the UDO requirements.
 - B. Work with staff to provide proper cross-access and site circulation between this development and the future development to the west.
- 3. Final Plat of Subdivision
 - A. The "County Highway" signature block needs to be amended to an IDOT signature block.
- 4. Provide the City with a hazard mitigation plan illustrating proper procedure in case of a spill or emergency.
- 5. Work with staff to reduce the size of the brick area around the free-standing sign.
- 6. Petitioner shall secure an IDOT permit and address any associated comments.
- 7. The petitioner shall address all of the review comments and requirements of the Community Development, Fire Rescue, Police, and Public Works Departments and of the City's Stormwater Consultant.

City of Crystal Lake Development Application

Office Use	e Only
File# .	

Project Title: __ Casey's - Crystal Lake, IL Action Requested **Preliminary PUD** Annexation **Preliminary Plat of Subdivision** Comprehensive Plan Amendment Conceptual PUD Review Rezoning **Special Use Permit Final PUD** Final PUD Amendment Variation Final Plat of Subdivision Other Owner Information (if different) Petitioner Information NorthSide Community Bank Pearl Street Commercial, LLC/ Arc Design Resources, Inc. Name: 800 N. Route 83 2519 Fielding Dr. Glenview, IL 60026 Address: Address: Mundelein, IL 60060 (Arc) 5291 Zenith Parkway, Loves Park, IL 61111 Phone: _____847-867-7200/ (Arc) 815-484-4300 Phone: (847) 837-8883 Fax: (815) 484-4300 Fax: (847) 837-8333 edward.egelston@nscombank.com stevenschwartz1@gmail.com/ryans@arcdesign.com Property Information The proposed development will consist of new construction of a Casey's General Store, **Project Description:** eight (8) fueling pumps with canopy, parking lot, storm water detention, and other associated amenities. A Special Use Permit is being requested due to the fuel operation. Southeast corner of the intersection of Terra Cotta Avenue (IL 176) and Terra Cotta Road Project Address/Location: PIN Number(s): ______14-33-426-016-0000, 14-33-426-019-0000, 14-33-426-020-0000, 14-33-426-010-0000, 14-33-426-014-0000

Development Team	Please include address, phone, fax and e-mail
Pearl Street Commercial Developer:	
TBD (By Casey's) Architect:	
N/A	
Arc Design Resources Engineer:	
Arc Design Resource: Landscape Architect:	S
N/A Planner:	
Arc Design Resources Surveyor:	
Other:	
Signatures PEAU Street Jon	my 12/8/12 Are Desan Resourcess 12-24-15
Steven L. Schwartz-Man	Mary, AM 2. Sy 12/23/15
PETITIONER: Print and Sign name (if lifferent from owner) Date
As owner of the property in question, I h	ereby authorize the seeking of the above requested action.
OWNER: Print and Sign name	Date

NOTE: If the property is held in trust, the trust officer must sign this petition as owner. In addition, the trust officer must provide a letter that names all beneficiaries of the trust.

Development Team	Please include address, phone, fax and e-mail
Pearl Street Commercial Developer:	
TBD (By Casey's) Architect:	
Attorney:	
Arc Design Resources Engineer:	
Arc Design Resources Landscape Architect:	
N/A Planner:	
Arc Design Resources	
Signatures	
PETITIONER: Print and Sign name (if diffe	erent from owner) Date
As owner of the property in question, I hereby Northside Community Ban	y authorize the seeking of the above requested action.
OWNER: Print and Sign name	Date 12/23/15

NOTE: If the property is held in trust, the trust officer must sign this petition as owner. In addition, the trust officer must provide a letter that names all beneficiaries of the trust.

PUBLIC NOTICE

BEFORE THE PLANNING AND ZONING COMMISSION OF THE CITY OF CRYSTAL LAKE, MCHENRY COUNTY, ILLINOIS

IN THE MATTER OF THE PETITION OF ARC Design Resources, Inc. and Pearl Street Commercial, LLC

LEGAL NOTICE

Notice is hereby given in compliance with the Unitled Development Ordinance (UDO) of the City of Crystal Lake, liftinois that a public hearing will be held before the Planning and Zoning Commission on the application by ARC Design Resources, inc., on behalf of Pearl Street Commercial, LLC, representing the owner NorthSide Community Bank, seeking a Special Use Permit and Variations for a Gas Station

at 639 E. Terra Cotta Avenue, Crystal Lake, Illinois. PiNs: 14-33-426-016, -019, -020, -010, -014.

O16, -019, -020, -010, -014.

This application is filed for the purpose of seeking a Special Use Permit for a Gasoline Service Station pursuant to Article 2-400 and Article 9-200 D and Variations from Article 2-400 13d Gasoline Stations from the requirement to provide a peaked canopy, Article 4-200D Parking from the required minimum parking, Article 4-1000F to allow over 150 square feel of wall/building signage and Article 51d and a deferment from the requirement to install sidewalk along the frontage and to bury the overhead utility lines, as well as any other variations as necessary to approve the plans as presented to approve this development. Plans for this project can be viewed at the Crystal Lake Community Development Department at City Hall.

A public hearing before the Planning and Zoning Commission on this request will be held at 7:30 p.m. on Wednesday, February 3, 2016, at the Crystal Lake City Hali, 100 West Woodstock Street, at which time and place any person determining to be heard may be present.

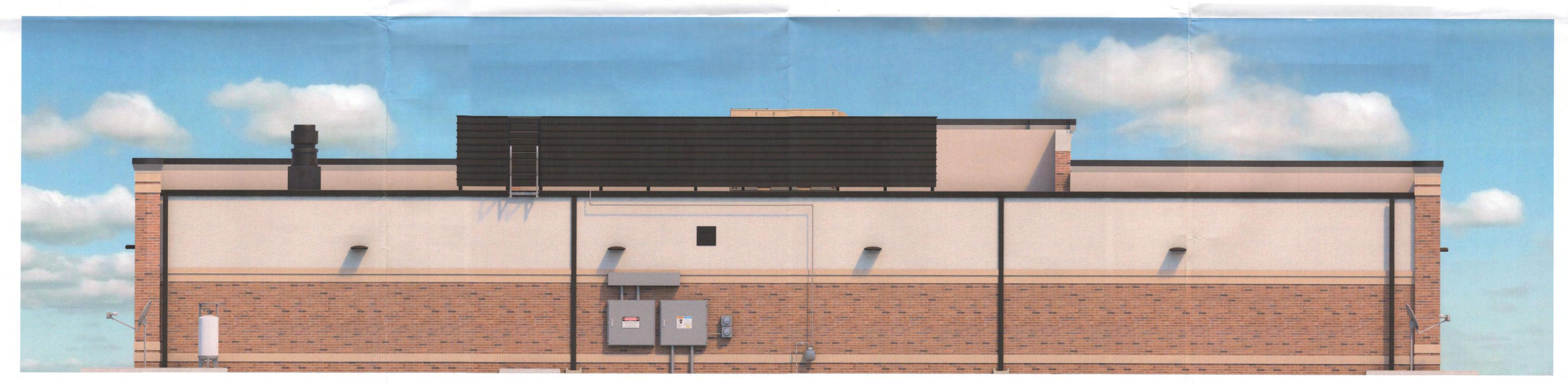
Tom Hayden, Chairperson Planning and Zoning Commission City of Crystal Lake

(Published in the Northwest Herald January 19, 2016) 1151046





FRONT ELEVATION



REAR ELEVATION

RECEIVED
DEC 1 8 2015
BY:

2015 66



LEFT ELEVATION

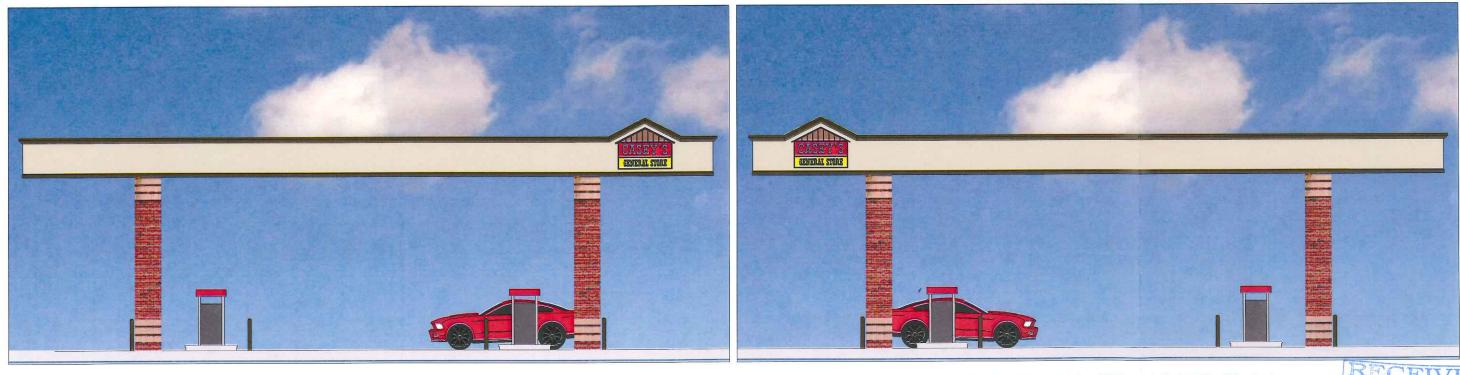


RIGHT ELEVATION

CRYSTAL LAKE, IL

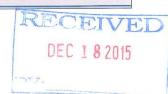


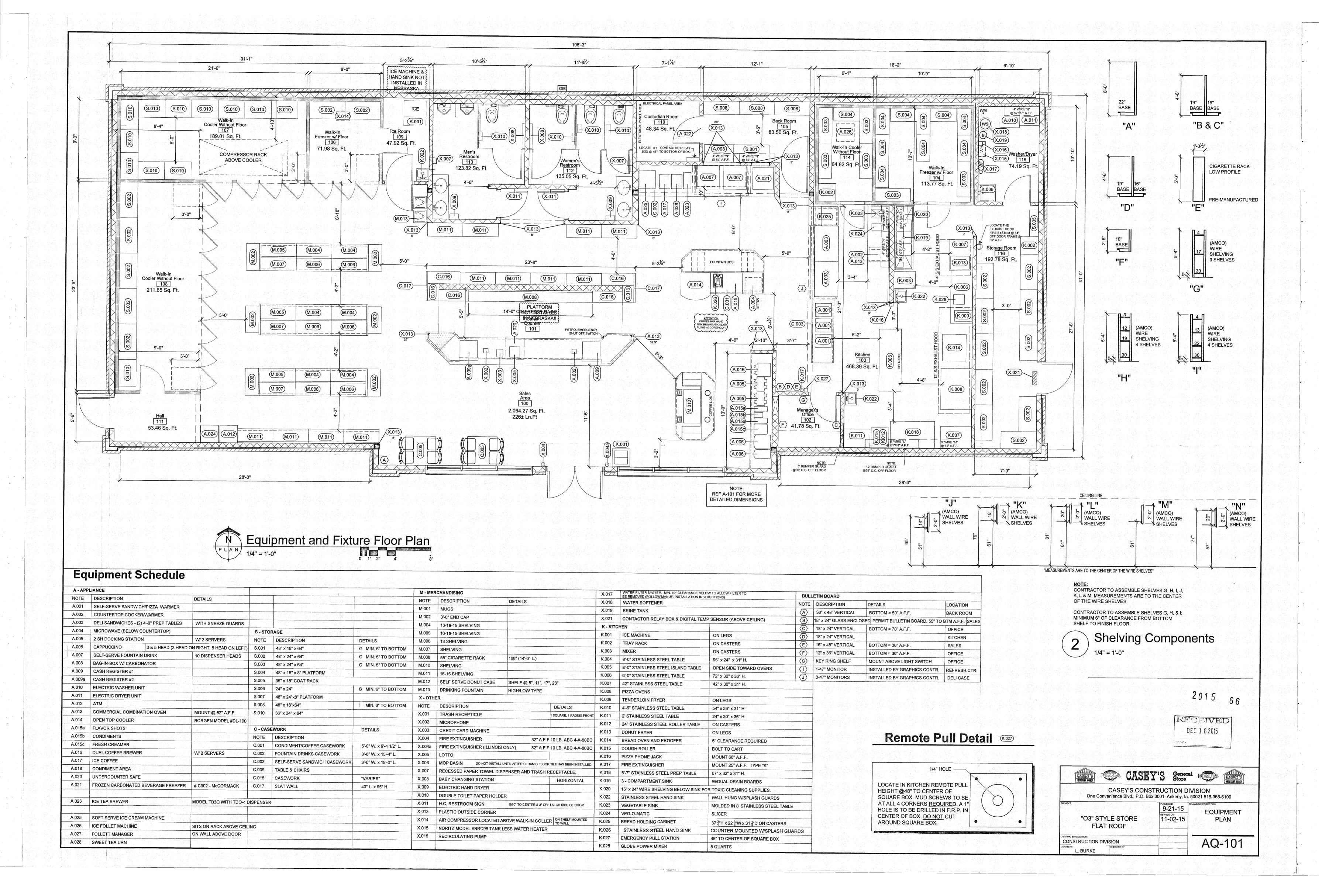
NORTH ELEVATION

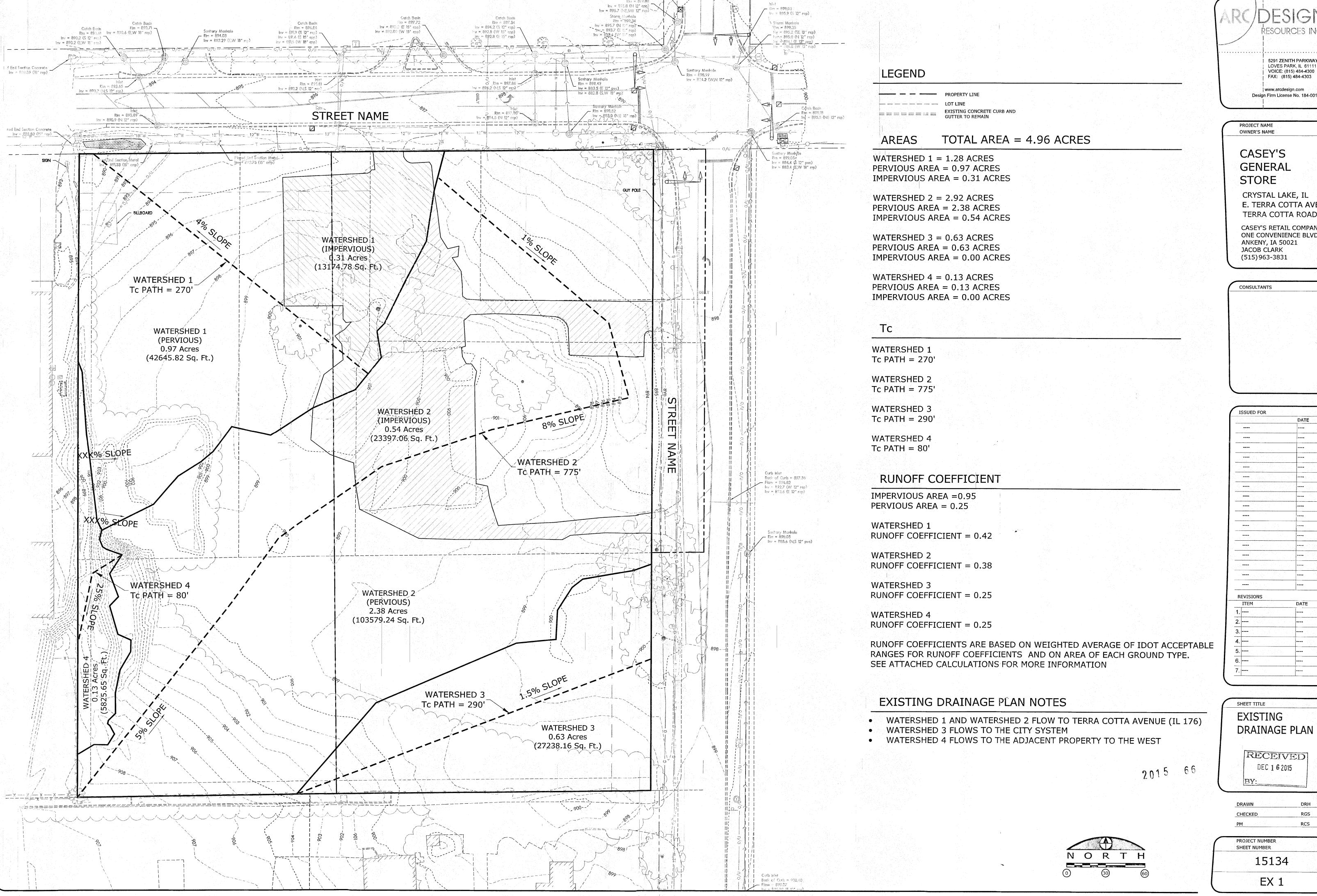


EAST ELEVATION

WEST ELEVATION







RESOURCES INC

5291 ZENITH PARKWAY LOVES PARK, IL 61111 VOICE: (815) 484-4300 FAX: (815) 484-4303

www.arcdesign.com Design Firm License No. 184-001334

CRYSTAL LAKE, IL E. TERRA COTTA AVE & TERRA COTTA ROAD

CASEY'S RETAIL COMPANY ONE CONVENIENCE BLVD

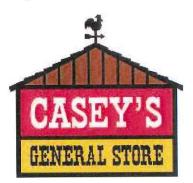
RCS



2015 66

Proposed Signage

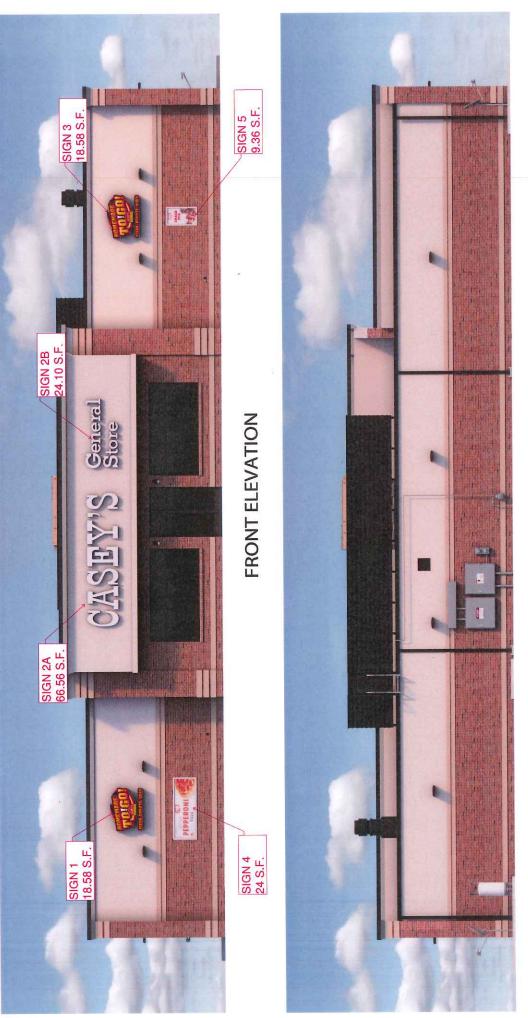
Casey's General Store



Crystal Lake, IL

January 18, 2016

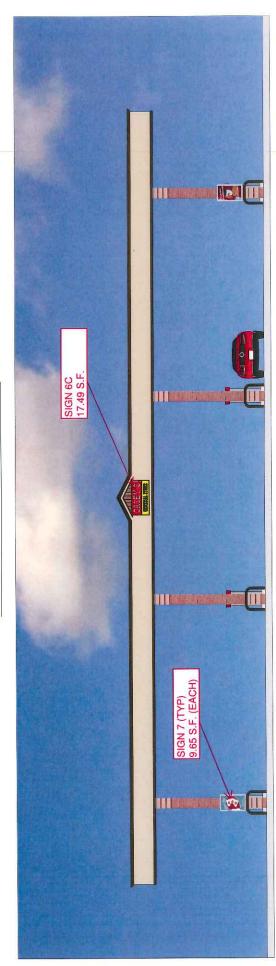
Project	Project Signage Schedule		Proposed	Casey's General Store, Inc	Store, Inc	Crystal Lake, IL
	Sign					
		Sign Type	Size	Mounting	Illumination	Actual Area (SF)
Building	Building and Canopy Wall Sign(s)					
⊣	Casey's Standard Sign (Oval Sign)	Surface	See Exhibit	Bldg. Front	Internally Illuminated	18.58
2A	Channel Letters "Casey's"	Surface	See Exhibit	Bldg. Front	Internally Illuminated	99.99
2B	etters Store"	Surface	See Exhibit	Bldg. Front	Internally Illuminated	24.1
8	Casey's Standard Sign (Oval Sign)	Surface	See Exhibit	Bldg. Front	Internally Illuminated	18.58
4	Casey's Standard (Banner Advertising)	Snap Frame	3' x 8'	Bldg. Front	Non Illuminated	24
ſΩ	Casey's Standard (General Advertising)	Snap Frame	2.4'x3.9'	Bldg. Front	Non Illuminated	9.36
6A		Surface		a. Canopy (side)	Internally	17.49
6B				b. Canopy (side)	Illuminated	17.49
29	Canopy Sign			c. Canopy (front)		17.49
7				Canopy Columns	Non	38.4
	Casey's Standard (General Advertising)	Snap Frame	2.5'x3.84' (X 4 EACH)		Illuminated	
			To	Total Building and Canopy Signage:	nopy Signage:	252.05
Monum	Monument Sign					
_∞	Casey's Logo	Monument		Free Standing	Internally Illuminated	17.49
6	Fuel Price	Monument		Free Standing	Non Illuminated	21
				-		
				Total Monu	Total Monument Signage:	38.49
				י אבום והוסיס	מומון אין מכנמו כי	



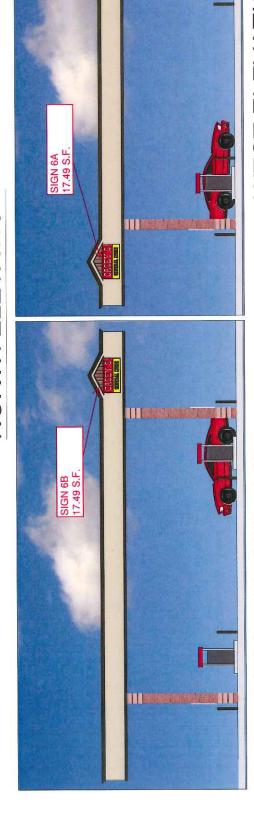
REAR ELEVATION

Casey's General Store Crystal Lake, IL

CRYSTAL LAKE, IL

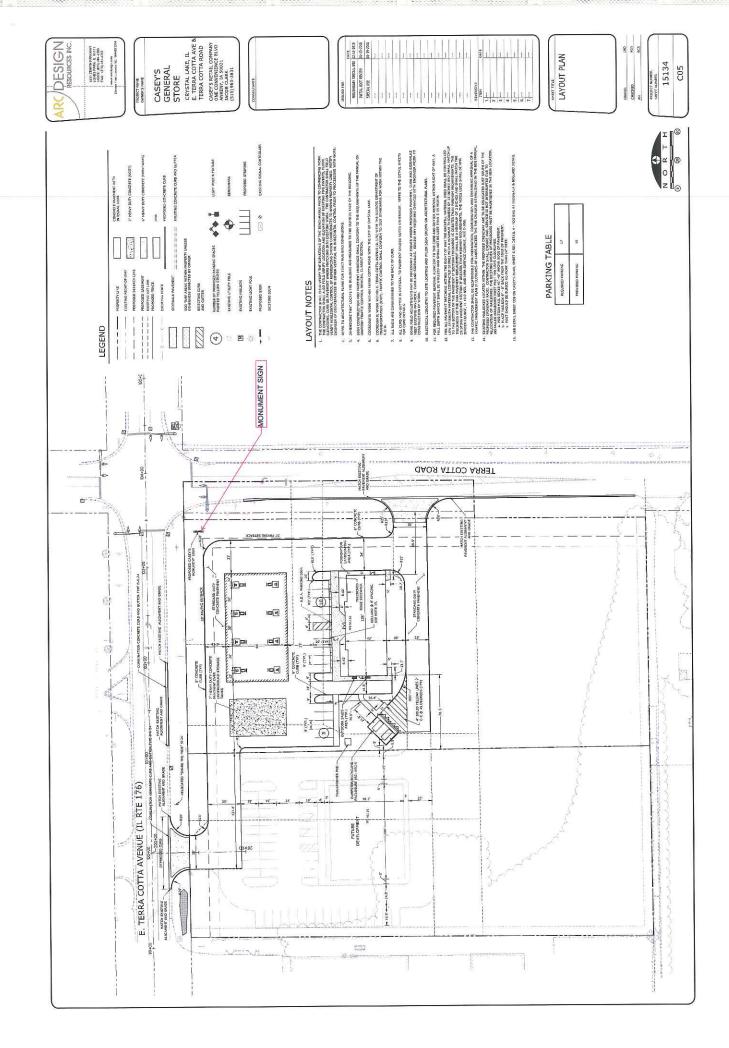


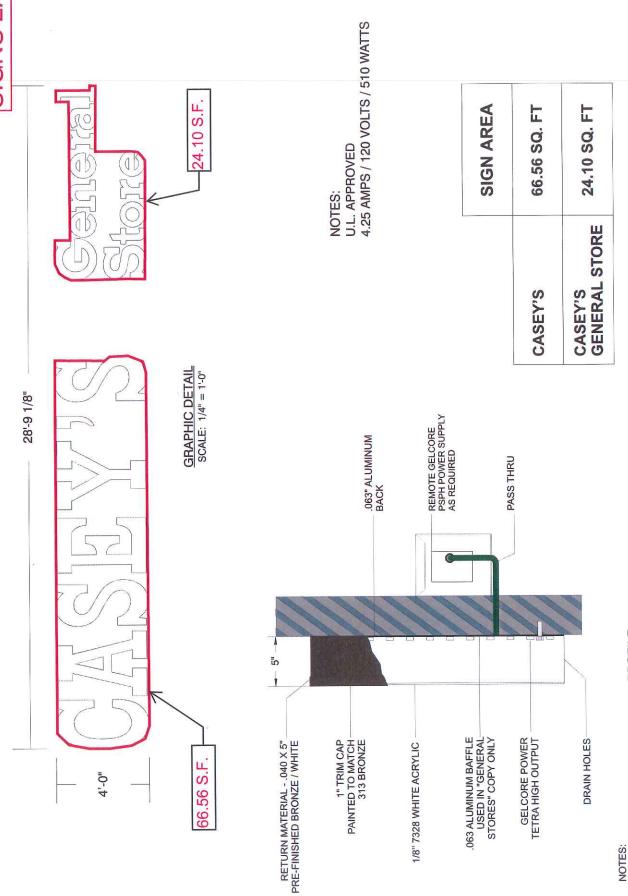
NORTH ELEVATION



WEST ELEVATION

EAST ELEVATION





	Date:	Prepared By:	Note: Color output may not be exact when viewing or printing this drawing. All colors used are PASs or the closest CMTK
CASEY'S	2-27-12	CM/IJA/MR	equivalent. If these colors are incorrect, please provide the correct PMS match and a revision to this drawing will be made.
	File Name:		Eng:
VARIOUS	4' INLINE CL		1

PROFILE NTS

U.L. APPROVED 5.4 AMPS / 120 VOLTS

Customer:

Location:

SIGN MAKERS IMAGE BUILDERS

DISTRIBUTED BY SIGN UP COMPANY 700 21st Street Southwest PO Box 210 Watertown, SD 57201-0210 1 (800) 843-9888 • www.persona-inc.com



in

080" ALUMINUM BACKER

INTERIOR FINISH: REFLECTIVE WHITE

EXTERIOR FINISH: PRE-FINISHED BRONZE

.063"X 5" ALUMINUM RETURNS;

OVAL: ROUTED ALUMINUM RETAINER

TAGLINE: 1" BLACK TRIMCAP INTERNAL LED POWER SUPPLIES

PAINTED BLACK

L L

= 18.58 SQ.

TOTAL

TAGLINE

3.50 SQ. FT

PIZZA,

ETC.

15.08 SQ. FT

MADETO GOOVAL

HOME

SIGN AREA

43" LOGO DISPLAY

> GRAPHIC DETAIL SCALE: 3/4" = 1'-0"



APPLIED 2ND SURFACE

W/ DIGITAL PRINT DECAL

WHITE LED'S AS REQUIRED 3/16" CLEAR POLY. FACE

AS REQUIRED

FLEXIBLE CONDUIT .063" ALUMINUM BACK INTERNAL LED PROFILE SCALE: NTS

ALUMINUM BAFFLE.

DRAIN HOLES

NOTE. Cohe oupur may not be exact when viening or printing this drawing. All cohes used are PAIS or the closest CAVIX equivalent. If these colors are incorrect, please provide the courset PAIS match and a recision to this drawing will be made.

SIGN MAKERS/IMAGE BUILDERS

DZ/SK

DISTRIBUTED BY SIGN UP COMPANY 700 21st Street Southwest PO Box 210

Watertown, SD 57201-0210 1 (800) 843-9888 • www.personasigns.com

File Name:

24", 32", 43" HOMEMADE-TO-GO LOGO C-PRINTS - R1

S Prepared By:

4/29/14

Date:

CASEY'S GENERAL STORE

Customer:

VARIOUS

Location:

DIGITAL PRINT DECAL APPLIED; WHITE BACKSPRAY

3/16" CLEAR POLYCARBONATE W/ 2ND SURFACE OVAL FACE IS EMBOSSED, TAGLINE FACE IS FLAT

BOTTOM OF OVAL, INTO TAGLINE FOR ELECTRICAL

CONNECTION

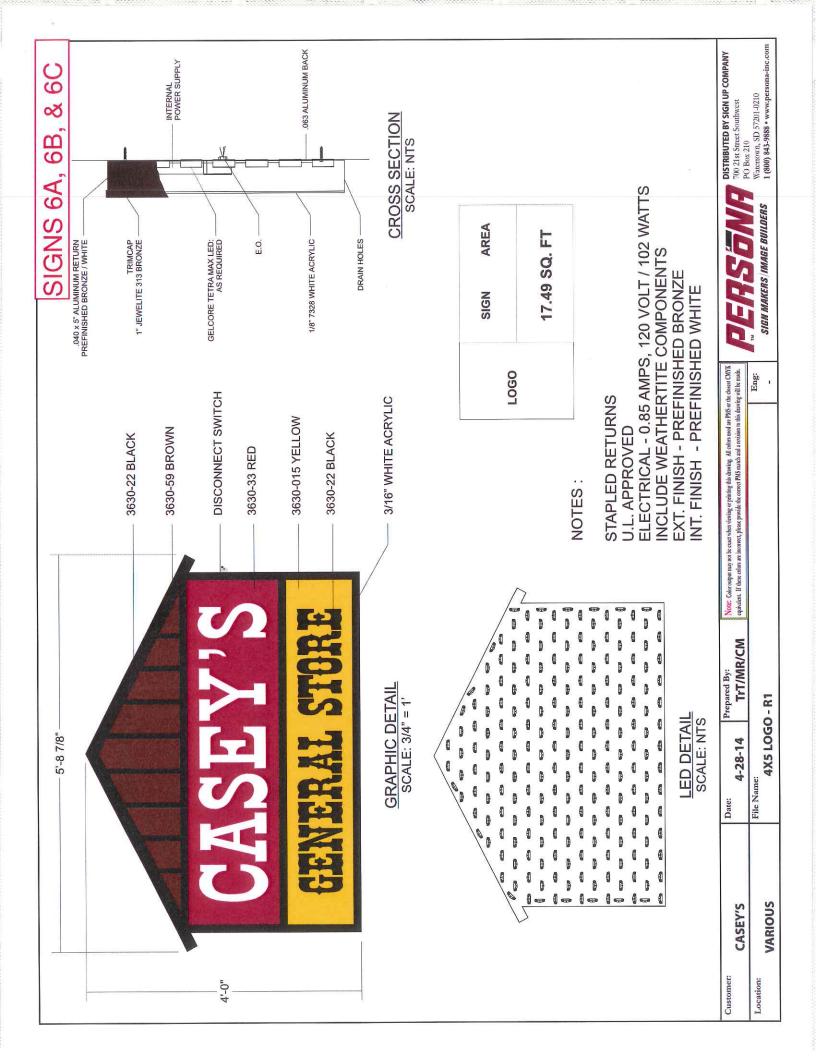
FACE NOTES:

BACKER PANEL PAINTED DURANODIC BRONZE OVAL & AGLINE ARE GLUED TO BACKER PANEL

WEATHERTITE COMPONENTS INCLUDED ELECTRICAL: 1.70 AMPS, 120 VOLTS

U.L. APPROVED

NIPPLE W/ WATERPROOF SEAL EACH END OUT



SIGN	TYPE	HEIGHT	WIDTH	TOP	BOTTOM	BOX FT²	TRUE FT ²
HOUSE LOGO	SURFACE	4'-0"	2'-8 7/8"	8'-6"	4'-6"	22.97 FT ²	22.97 FT ² 17.49 FT ²
PRICER	SURFACE	2'-9"	7:-7.5"	8'-6"	2'-0"	21 FT ²	21 FT ²
					- LOH	< L	50 40 FT2

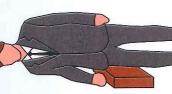


13'-0"

• 10" AMBER AND GREEN LED
• STATIC DIESEL, GREEN LABEL - WHITE
COPY, LABEL NON-INTERCHANGEABLE
• DIESEL ON THE RIGHT, BOTH SIDES
• STATIC OTHER, YELLOW LABEL - BLACK
COPY, LABEL NON-INTERCHANGEABLE

OTHER NOTES
CABINET IS BLACK IN COLOR
300' WIRELESS KEYPAD RANGE





DIESEL

UNLEADED

SUPER UNL.

101

..6-.Z

.0-,6

GENERAL STORE

..0-.17

*PRODUCT LABELS AND PRICING SUBJECT TO CHANGE

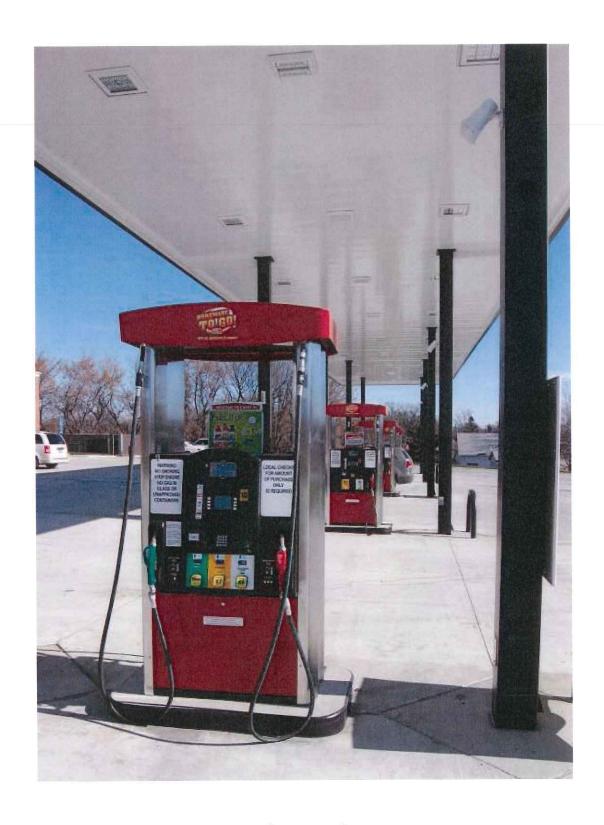


MONUMENT PRICE SIGN 3 PRODUCT

DRAWN BY:

J. CLARK

01-13-16



Typical Pump Signage

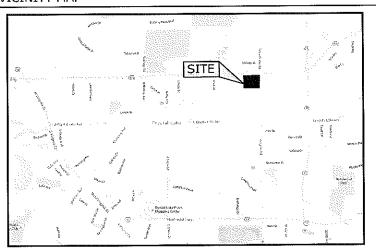
CASEY'S GENERAL STORE

CRYSTAL LAKE, IL 60014 E. TERRA COTTA AVENUE (IL ROUTE 176) AND TERRA COTTA ROAD

GENERAL NOTES

- The designs represented in these plans are in accordance with established practices of civil engineering for the design functions and uses intended by the owner at this time. Neither the engineer nor its personnel can or do warrant these designs or plans as constructed except in the specific cases where the engineer inspects and controls the physical construction on a contemporary basis at the site,
- The contractor, by agreeing to perform the work, agrees to indemnify and hold harmless the owner, the engine the City, and all agents and assigns of those parties, from all suits and claims arising out of the performance of said work, and further agrees to defend or otherwise pay all legal fees arising out of the defense of said parties.
- In accordance with generally accepted construction practices, the contractor shall be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours. Any construction observation by the engineer of the constactor's performance is not intended to include review of the adequacy of the contractors safety measures, in, or near the construction site. The contractor is responsible for maintaining adequate signs, barricades, fencing, traffic control devices and measures, and all other measures that are necessary to protect the safety of the site at all times.
- Maintain access for vehicular and pedestrian traffic as required for other construction activities. Use traffic control devices to include temporary striping, flagmen, barricades, warning signs, and warning lights shall be in accordance with current MUTCD and IDOT standards.
- All phases of the site work for this project shall meet or exceed industry standards and requirements set forth by the the owner's "Description of Work", City of Crystal Lake, the State of Illinois, and this plan set.
- 6. The City of Crystal Lake must be notified at least two (2) working days prior to the commencement or resumption o
- The contractor shall coordinate all permit and inspection requirements with responsible local, state, and federal agencies. The contractor shall include the costs of this coordination and all inspection fees in the bid price.
- 8. All work performed by the contractor shall come with a warranty against defects in workmanship and materials. This warranty period shall run concurrent with the required warranty periods the owner must provide to each local government agency, as a condition of the permit.
- The contractor will be held solely responsible for and shall take precautions necessary to avoid property damage to adjacent properties during the construction of this project.
- 10. All structures, inlets, pipes, swales, roads and public egresses must be kept clean and free of dirt and debris at all
- Any field tiles encountered during construction shall be recorded showing size, location, and depth by the contractor, and either reconnected and rerouted or connected to the storm sewer system. The owner shall be notified immediately upon encountering any tile.
- 12. The contractor shall field verify the elevations of the benchmarks prior to commencing work. The contractor shall also field verify the location and elevation of existing pipe inverts, curb or pavement where matching into existing work. The contractor shall field verify horizontal control by referencing property corners to known property lines. Notify the engineer of discrepancies in either vertical or horizontal control prior to proceeding.
- 13. All elevations are on USGS datum.
- 14. Parking areas designated as A.D.A. and all sidewalk shall be compliant with state and local A.D.A. requirements.
- 15. Tactile warning plates per IDOT specifications shall be placed at all locations where sidewalk that is to be replaced intersects public roads and at locations indicated in this plan set.
- The contractor shall verify the location of all utilities in the field prior to construction. This includes sanitary sewer water main, storm sewer, AT&T, ComEd, Nicor, and Mediacom, if any. The J.U.L.I.E. number is 1-800-892-0123.
- 17. Property corners shall be carefully protected until they have been referenced by a Professional Land Surveyor.
- 18. The contractor shall keep careful measurements and records of all construction and shall furnish the Engineer, the Owner and the City with record drawings in a digital format compatible with AutoCAD Release 14 upon completion of his work.
- 19. Any excess dirt or materials shall be placed by the contractor onsite at the owner's direction or as indicated on the
- Notify the owner and City of Crystal Lake of any existing wells. Obtain permit form the Illinois Bureau of Minerals
 and the State Water Survey. Cap and abandon wells in accordance with local, state, and federal regulations.
- 21. Finish grade shall in all areas not specifically reserved for storm water management shall drain freely. No ponding shall occur, Tolerances to be observed will be measured to the nearest 0.04 of a foot for paved surfaces and 0.10 of a foot for unpayed areas.

VICINITY MAP





OWNER:



CASEY'S RETAIL COMPANY

JACOB CLARK (515) 963-3831

ENGINEER:



INDEX OF SHEETS

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6	GRADING PLAN
7	DRAINAGE PLAN
8	UTILITY PLAN
19	DETAILS
0	DETAILS
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13	IDOT DETAILS
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5	CRYSTAL LAKE DETAILS
.6	CRYSTAL LAKE DETAILS
17	CRYSTAL LAKE DETAILS
_01	LANDSCAPING PLAN

APPROVAL	DATE	
CITY OF CRYSTAL LAKE IDOT	PENDING PENDING	

UTILITY OFFICIALS

LANDSCAPE NOTES

CITY HALL
CITY OF CRYSTAL LAKE
100 W. WOODSTOCK STREE
CRYSTAL LAKE, IL 60014

WATER AND SEWER DEPARTMENT

WASTEWATER DEPTARMINE CITY OF CRYSTAL LAKE DAN LANGGUTH WASTEWATER SUPT. (815) 459-2020 EXT. 4169

> CHARD JAN 1 1 7016 Country of the Countr

COMED 1(800)334-7661 P.O. BOX 805379 CHICAGO, IL 60680-5379

STREET DEPARTMENT

CITY OF CRYSTAL LAKE LARRY ZUREK STREETS DIVISION SUPT.

(815) 356-3614

CITY ENGINEER CITY OF CRYSTAL LAKE

ELECTRIC:



CASEY'S **GENERAL**

STORE

CRYSTAL LAKE, IL E. TERRA COTTA AVE TERRA COTTA ROAD

CASEY'S RETAIL COMPANY ONE CONVENIENCE BLVD ANKENY, IA 50021 1ACOR CLARK

7	ISSUED FOR		1
		DATE	
	PRELIMINARY SPECIAL USE	12-15-2015	
ı	INSTIAL IDOT REVIEW	01-15-2016	
l	SPECIAL USE	01-19-2016	
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CHECKED

PROJECT NUMBER 15134

GENERAL SITE-WORK: GRADING: . The grading and construction of the site Improvements shall not cause ponding of storm sever water. All areas adjacent to these improvements shall be graded to allow positive drainings. any grading or underground utility construction activities (act Development Department at 815-356-3605). The proposed grading elevations shows on the plans are finished grade. A minimum of six (6) inches of (cosell is to be placed before finished grade 2. 24-hour Emergency contact numbers shall be provided to City Staff at the Pre-Construction meeting. Working hours shall be similed to the locurs of 7:00 a.m., and 7:00 p.m., on weekdays only (except in cases of amangency). Non-emergency work on veekends or holdsays in not permitted per City Code anapoly under widem permission from the City Emplorer. The owner is reposable for the City Inspector cost of evertime inspection beyond the normal eight (8) hour day, including weekends and keildays. Embankment material within partively end open space areas shall be compacted to a minimum of neetly serveni. (BDR) of maximum density is accordance with ASTM Spacification D-1357 (modified proctor method), or to auch other density as may be detarellined appropried by the acts eagringer. Public/private steeks shall be kept free of dirt and dictris with regular cleaning, sweeping, and scraping conducted by the Contractor, Junk and debris shall not be allowed to economiate, blow, or All subgrade majerial shell have a minimum CBR (California Bearing Railo) of 3.0 as determined by the sols enginess, or base replacement and powerront design revisions shall be provided which are adequate to obtain equivalent pervenent sternyth. J.U.L.I.E. shall be contacted for utility locations on site and in the adjacent rights-of-way. Centractor shall provide and maintain fending, bentizades, traffic control signs, and other safeguarding measures during the course of all work to protect the public from the construction Proposed paremost areas, building pade, etiveways and sitewaks and yardiopen space areas shall be excavated or filled to plus or minus 0.1 (loc) of design subgrade elevations by the Contractor; Maiertais access to adjacent streets during construction, the choing of streets unless approved is list obtained from the agency with jurisdation (City of Coystal Laira, McHenry County Department of Transportation, Illinois Department of Transportation, atc). Any borrow pil locallons shall be identified by the Contractor on a copy of the approved sile plans and forwarded to the Engineering Division all least 24-hous prior to sexuation. Provide localitil compaction reports from a pecificational engineer and as-best plans to the Engineering Division for any borrow pit area. B. Any damage to public righti-of-way, public utilities, streets, ourb, etc. shall be repairedireplaced as soon as possible and as directed by the City Engineer. The contractor shall give the City of Crystal Lake, Illinois Department of Transportation, and any other governmental searcy having sindicition, at least two (2) working days actice excluding Saurday and Sunday gree to the enterior of any phase of construction. Contractor shall immediately entitly it construction has bested and season has two (2) working day forlication bleedafter. Backfill shall be monitored by a geotechnical engineer on-site with compaction reports forwarded to the Engineering Division for review. Water truck shall be on-site at all times during mass-grading operations and be available as needed for the purposes of dust control or at the request of City Staff commencement along or across existing strests or highways. The Costractor shall make arrangements for the proper bracing, shoring and other protection of all condways before Use of City fire hydrants is not aboved untess approved (separate from this permit by the Public Works Department and a hydran major and RPZ is obtained from the City of Crystal Late Water Division (616-355-3614). Only the City of Crystal Late Water Division may operate varies and hydrants.

STANDARD NOTES

AND SPECIFICATIONS

1. 06/12/2015

GE-02a

Date: 01/30/16

DD AW

Drawn Checked

Crystal Lake

11. The Contractor shall provide the necessary tools and equipment and perform the work necessary to less the defendion in the initiat 7.00 feet of installat severand not less than ten percent (10%) of the remplant of this exemp ongole of smooth notations selected by the engineers no socient thin 10 days after brickfilling has been completed. In this world that deficions necessit for installation initial of the pieces (10%), the Contractor that less all other raws feetile pipe for delection. Delection shall be Non-their stabiless steel couptings shall be used when connecting sever place of distribut materials and gloss with no hub joins. When connecting to an existing swriting severe by means other than an existing wye or manhole, contractor shall use a Sever-Tap and het-rays or habites suicke. Unless an atternate method is approved, water stop geskets shall be provided at all sanitary sever peachole connections. Type and manufacturer to be approved by the City. Company or that exit is univer new network pure to venezione, unacconstruction to leaded by use of pilling a manded or right bell having a demekter depail to highly-like personal (5%) of the inside dismosar of the pile, and the lest shall be performed using matchested pulling devices. Wherever the delightion limitation is exceeded, the constructor shall uncover the eight, cardfully replace compacted embedment and backfill PVC plastic sewer pipe and fittings of sizes 4-inch takeugh 15-inch shall conform to the latest revised specification requirements of ASTM D3034 for type PSM polyviryl chlorida (PVC) sewer pipe and fittings of minimum wait thickness SDR 35, Joints shall be either the solvent wold type conforming to the latest ravised expectionalion requirements of ASTM D2554 and ASTM D2855, or elastomenic gasket type conforming to the latest revised specification requirements of ASTM D1859 and ASTM D3212. A liticker walled pipe such as SDR 26 may be epacified by the engineer depending on design and/or field conditions. PVC plustio sawar pipa and tillings of sizes N2-inch shough 36-inch shall conform to the latest servised specification requirements of ASTM EST9 or polyherly chaldre (PVC) large diameter follow gravity severe pipa and filtings. with lestings abe gastered prints and obstromer's gastrials of form a velotingfer seal conforming to the filtest wested specification requirements IACAT NET4TY or ESTM DCV212. Cast Iron Soll Piper service weight cast Iron soll pipe and fittings conforming C.I.S.P.I. Specification HS-97 with compression type number gasket plants conforming to ASTM specification C564, or other autiable materials approved by the City Engineer. 7- Pipe and fillings shall be the products of one approved menufacturer only, and there shall not be any mixing of also and filtings of different manufacturers between manholes. The hending and installation of pipo, assembly or joints, and member connections what be in accordance with the memutacturer's recovenered allons. 9. Gasket-type waterstop collars consist of a neogrape collar and a staintess steel band or other approved masketo waterstop atlast be installed wherever the pipe passes through the membala walls to provide a waterslight joint to prohibit infatration into she newer system. 10. PVC pipe shall be installed in accordance with the talest revised specification registerents of ASTM D2321 using either compacted class tor class til granular ambadment materials til. 1, 06/12/2015 GE-02c STANDARD NOTES Date: 01/30/15 AND SPECIFICATIONS Drawn Checked Crystal Lake DD AW POSCODAR CONFIGURACION PARAMETER DE SANTARIO DE L'ANGUARDO

EROSION CONTROL: TOPSOIL STOCKPILING: Location of any on-site logistic stockpiles shall be identified on the approved plans with sit tence installed around the perimeter of the stockets. All specified erosion control measures shall be installed and maintained per the requirements of the Crystal Lake Stormwaler Ordinance in accordance with the active NPDES 2. Topsoil stockbilled for future use shall be relatively free from large roots, sticks 3. All overland flow routes to be stabilized by sad or blankel. 3. Toppoli shall be stockpied in sequence to eliminate any re-handling or double movements by the Contractor, Follars to properly sequence the stockpieng operations shall not constitute a clean for additional compression. On Porteglial shall be stockpiled in front yards, in utility essements, or in the right-of-way lines. Erosion control measures to be inspected and approved by City Engineering Division prior to additional work on site. Continuous monitoring of erosion control measures is required. Materialn records of weekly reports per the City of Crystal Lake Stormwater Circlinance. If a stockpile is to remain in place for more than (14) calendar days, it is required that the stockpite meet the requirements as outlined in section 595 of the City Code. The Contractor shall implement any additional erosion control measures deemed necessary by the City per the standards of the City Of Crystal Lake Stormwater Ordinance. 7. All shorn sewer catch basins, swinps and/or reterition basins provided are to be cleaned at the end of construction of the project prior to laval ecceptance. Cleaning may also be required duting the course of the constitution of the preject if it is determined that the slit and debris tags see not propelly functioning and their performance is impaired. UNDERGROUND UTILITY: The Confractor shall coordinate water main, water service, sanilary and storm sewer inspections and testing with the Community Development at least 24 hours in advance Projects of 1 Acre or greater must obtain an NPDES permit prior to commencement of any construction activity. All main line sanitary shall be cleaned and televised (provide DVD to the City's Engineering Division). All manhole or valve covers shall be imprinted "City of Crystal Lake Sanitary", or "City of Crystal Lake Storm", or "City of Crystal Lake Water" as directed by the City. Reference the latest addition of the Standard Specifications for Water and Sewer Main Construction in Binots. 5. Existing manholes to be circular cored and booted 1.08/12/2015 GE-02b STANDARD NOTES AND SPECIFICATIONS Oate: 01/30/15 Drawn Checked Crystal Lake DD AW

WATER MAIN: All subgrades and bases shall be proof-rolled and approved by the Engineering Division prior to base or binder installation. Weier mein shall be Duckle tion or Mollocularly Oriented Polyvinyl Chlocke (PVCO).
 Ductile Innu water maks shall be Class 32 controlling to ANSIAWWA C151/A21.51.49.
 Gaevies or ceal tion fittings add conform to ANSIAWWA C111/A21.11 and ANSIAWWA C110/A21.10 respectively.
 PVCO: Sec IO) Polati ILIV-17 and UV-13. Subgrade and proposed pavements shall be finished by the Excavation Contractor to within 0.1 foot plus or minus, of plan elevation. 3. The Paving Contractor shall ensure that the subgrate has been properly prepared and that the Misted top of subgrate elevation has been pasted within the this expectations of these specifications. Unless the Parity Contractor address the owner and replaced in willing plot to shar grading for base ocurse contraction. It is undestanded that the Contractor has approved and accepts inspirationally on subgrades. Thrust blocking or Mega-Lug or pre-approved equal shall be installed on water mains at all beads, leas, alboxs, etc. except as noted below. Thrust blocks not permitted with 45 degree vertical bends in water main (these shall be restrained with Mage-Lug or pre-approved equal. For the purpose of providing handleap accessibility and complying with the American Disability Act and City Standards, coths shall be depressed all locations where public walks or pediestrian paths intersect curb tines at street intersections and other tocalisms so directed. When specified, ductlic iron pipe shall be encased in polyethylene and shall conform with ANSI/AWWA C105/A21.10 - 10 and ASTM A674-10. Minimum cover from finished grade to top of water main shall be six (6) feet; Maximum cover shall be sight (5) feet. 'A linch links prenotided fiber expansion joints with two (2) No. 4 plain round sized dowel born shell be installed at designated intervels and at all P.C., P.T., curb returns and at the end of each pour. Alternatio ands of the dowel bars shall be greased and foliad with qualit expansion below: g. Waler Main Taps: An illinois licensed plumber is required for any waler main tap. 7. All water mains shall be subjected to a pressure test and a separate bankage test at system pressure for 24 hours by the Continutor. Hydrostalio pressure test and leakage test shall be based on 125 PSI for two (2) hours. Water mains shall be chlodinated in accordance with the Standard Specifications. Inch thick fiber expansion joints shall be used in pway case where the slidewalk consides with the cuto and gatter. Contraction joints shall be saw out at designated intervals in the cuto. The cost of these joints shall be considered as incidental to the out of the confract. The Underground Contractor shall consider incidents) to the contract any obtaination and testing of existing water main where connections to and conclusion of such mains is indicated on the drawing. All poured in place concrete curb and gutter shall incorporate two {2} No. 4 reinforcit bors installed wherever the curb and gutter crosses utility service lines, the cost of which shall be considered incidental to the cost of concrete curb and gutter.

8. Sidewalls, before acquised) shall be of the flickness and dimensions as shown in the construction plans. All sidewalls concrete shall be a minimum of 6.1 stag risk or IDOT class. Si correctly and said linewise printinum of 3.80 size is compressed shall not facilities (14) drays. Controction ploths shall be set all five (5) feet centres, and constall fine (15) (thing) personated free expression, brists at 16 feet (5) feet centres, and where the sidewalls are left for controlling or constalling of the control research of the control research of the controlling of the contr

STANDARD NOTES

AND SPECIFICATIONS

GE-02d

Drawn Checked

AW

Date: 01/30/15

1 06/12/2015

OLESOPETROS DELAITA VADARAMAKIN

GENERAL NOTES

 DRAWN
 LND

 CHECKED
 RG5

 PM
 RCS

DESIGN resources inc

> 5291 ZENITH PARKWAY LOVES PARK, IL 61111 VOICE: (815) 484-4900 FAX: (815) 484-4903

OWNER'S NAME

CASEY'S

GENERAL

CRYSTAL LAKE, IL

E. TERRA COTTA AVE 8

TERRA COTTA ROAD

CASEY'S RETAIL COMPANY

ONE CONVENIENCE BLVD

ANKENY, IA 50021

(515) 963-3831

CONSULTANTS

ISSUED FOR

SPECIAL USE

PRELIMINARY SPECIAL USE 12-15-2015
INSTIAL IDOT REVIEW 03-15-2016

01-19-2016

STORE

PROJECT NUMBER SHEET NUMBER 15134

C01

SHEET TITLE

EARTHWORK NOTES

Unswikable Materials:

Assume that if unswitable materials are encountered and the replacement of these materials is required, this situation shall be handled as follows:

A. The elite contractor shall notify the general contractor immediately. The project superintendent, prior to the undercutting being completed, must approve any additional undercutting. The quantities must be verified by the engineer as the additional removal is being completed, must approve any additional undercutting. The quantities must be verified by the engineer as the additional removal is being completed.

If approved by the general contractor, these materials is an internoved and replace with compacted granulur materials and compacted in accordance to required standards. The cost of this work shall be an extra to the contract, with the cost being adjusted by change order.

If the site contractor is furnishing any of off the materials, a representative sample of such materials shall be furnished to the general contractor's approved testing agency to declaring a prodor.

D. These materials shall be gladed as homogeneously as possible to facilitate accurate compaction and moisture testing.

These materials shall be placed as homogeneously as possume to recursace contents of the content
D. Topsoil ph shall be between 5,0 and 3,0. topsoil organic content shall not be less than 1.5% by weight. Topsoil shall contain no substance that is potentially toxic to plant growth.

E. "Existing on-site material" is defined as material of such a quality that this specified compaction can be met without any additional work other than "densifying" with a roller. Scarification and drying of this material will not need to be done prior to compaction.

F. "Existing on-site material" is defined as material with a high moisture content that can not meet specified compaction requirements without scarification and drying, chemical stabilization, etc. of this material prior to compaction.

G. "Unsuitable material" is defined as any materials that:

G.1. Cannot be utilized as "toppoin", (reparalless of moisture content and/or does not structurally meet the standards of the project owner's angineer's materials.

G.2. Cannot be utilized as "engineered fill".

G.3. The project owner's angineer's fill or the project owner's angineer's materials from "demolition" and/or excevated areas; i.e., they are materials that would not be suitable for 'engineered fill".

Off-site meetable is defined as an year-laid materials from "demolition" and/or excevated areas; i.e., they are materials that would not be suitable for 'engineered fill".

Off-site meetable is defined as an year-laid that are brought from any area not indicated on this plan set.

sultable for "engineered fill".

1. "Off-site material" is defined as any materials that are brought from any area not indicated on this plan set.

2. "Trench backfill" shall be defined as any materials used for the purposes of backfilling any trench and/or any excavation requiring backfilling. Refer to the section titled "standards for fill areas" for determine acceptable materials and procedures.

3. the term "stripping" or "stip" as used herein shall be defined as the removal of all" organic materials" from a given area, the term "organic materials" is defined as material having an organic content over 8% based on ASTM test method D-2974 or as defined by the owner's engineer.

3. Standards for rule areas:

Standards for cut areas:

A. A "cut area; is defined as any area where "engineered fill" is not required to bring the site to design subgrade elevation, instead excavation or "cutting" is required to achieve design subgrade elevation. ("Engineered fill" being defined as any material being "offsite material".)

In "cut areas," the site contracts shall perform one of the following procedures at the discretion and is the presence of a representative of the owner's

B. In "out areas" the site contractor shall perform one of the following procedures at the discretion and in the presence of a representative of the owner's engineer and the project architect:

5.1. Bern 1 for exposed building or parking lot subgrades consisting primarily of granular soils the exposed subgrade should be compacted/densified by at least one (1) pass of a smooth-drummed vibratory roller having a minimum gross weight of 10 tons.

5.2. Bern 2 for exposed building or parking lot subgrades consisting primaryly of consists explicitly, the exposed subgrades should be proof-rolled with a fully-loaded sh-wheel truck having a minimum gross weight of 25 tons. The maximum allowable deflection under the specified equipment shall be 1/2".

C. In the event that adequate stability of granular soils subgrades cannot be achieved by the procedures as outlined in 1, above, or that deflections of greater than 1/2" are observed during the "proof rolling" of colleave soils subgrades, as outlined in item 2, above, additional corrective measures will be required. These measures could include, but not unexcastly be limited to, excitation, on confidencing, and compaction, underscutting & replacement with engineered fill and chemical stabilization, etc., and the proposed contractive the engineered fill and chemical stabilization, act., and they need that contractor's expensibility to perform scrification and allow for drying of the contractor.

Any proposed corrective measures by the contractors should be entitled to activate of the contractors and the contractors should be entitled to activate of the contractors should be contractors should be entitled to a source of the contractors should be entitled to a source of the contractors and the contractors should be entitled to a source of the contractors and the contractors should be entitled to the expectation of the contractors should be entitled to the contractors.

Any proposed corrective measures with the contractors should be entitled to the contractors.

C. Any proposed

the subgrade per illinois dot standards (scorify a 16' dayls). If this does not work then additional drying measures shall be an extra to the contract.

E. Any proposed corrective measures by the contractor should be reviewed by the owner's angineer and the project architect. In the event that in the opinion of the event of the event of the project architect. In the event that in the opinion of the event
Areas under foundations bases:

ALLA, 35% standard protter for all fill placed below foundation base elevation in the building area.

ALLB, areas under floor slabs and above foundations/fooling bases:

ALLC, 55% standard protter for all fill placed more than 12 inches below final grade for support of floor slabs and above foundation base elevation in the building area.

the building area.

A.1.D. 39% standard proctor for fill placed in the upper 12 inches of design subgrade below slabs. The granular fill under the floor slab should be compacted to at least 39% standard proctor.

A.2. Area under payerment sections:
A.2.A. 39% standard proctor for all fill placed more than 12 inches below passenger cur payerment sections and 95% standard proctor for the top 12

A.2. A 59% standard proctor for all fill placed more than 12 inches below passenger car pavement sections and 95% standard proctor for the top 12 inches.

A.3. Landscaped areas:

A.3.A. 39% standard proctor for all fill placed in landscape areas. These areas should be brought to grade with "oppsell" to a depth of 12 inches in areas to be seeded, and calculate the sections:

A.4. Base course purion of pavement sections:

A.4. By 5% standard proctor for all base course materials that are part of a "pavement section".

B. The option of utilizing the modified proctor (ASTM D-1557) in lieu of the specified standard proctor (ASTM D-595) shall be at the discretion of the general contractor, contingent upon written approved by the profest and owner's explainer and approved by the project architect.

C. of the section of utilizing the modified proctor of the section of the

DEMOLITION NOTES

1. The contractor shall be responsible for the demolition and removal of all items that impede the proper placement of any items proposed by this plan set.

1. The removal work shall include but not be limited to: obtaining all demolition permits required, removal of the existing trees, sealing of the existing water well(s), removal any septic system or dry wells (if any) and other items to complete the removals.

3. The contractor shall removal all materials deemed unustable by the engineer within eight inches of the proposed building footprint to the depth that such unsuitable materials exist. Voids shall be filled in accordance with the "Earthwork Notes" on this plan sheat.

4. These enemeds shall include the complete termould of all trees in the sedere shift inches of the proposed building footprint to the depth that such unsuitable materials exist. Voids shall be filled in accordance with the "Earthwork Notes" on this plan sheat.

5. The contractor shall be preserved and description of shall trees to deemed necessary by the contractor, the contractor shall offer written notification ten business days prior to demolition to the engineer. Writtens approval must be obtained prior to removal of said trees.

5. The contractor shall coordinate disconnection, removal, and relocation of the existing utilities with the appropriate building companies. The contractor shall be responsible for all fees that are levised by utility companies in conjunction with demolition and removal of existing utilities.

5. Disposal of all materials shall comply with all local, state, and federal regulations. All water material shall be disposed of off site, contractor shall be removal of all materials from the site along with all associated permits and regulatory requirements, procedures and access to equipment required to properly seal wells ("In "Only "The contractor shall be responsible to obtain, complete, and the the appropriate terms through the city of Crystal take and the Illinois Environment Protection Agency (EPA).

For dec

Protection Agency (EPA).

8. The contractor shall maintain all existing utility services to adjacent lots. Interruption of services to adjacent lots shall not occur without proper approval. 48 hrs solice shall be given to the property owners prior to the connection of the new services. The contractor shall be responsible for costs associated with the connection of temporary utility services. Frequired, to fedilate construction stagling.

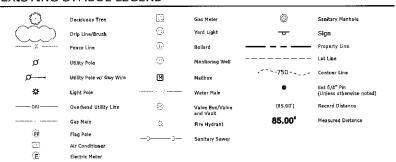
9. The contractor shall maintain all existing parking, sidewalks, drives, etc. to be clear and free of any construction activity and/or excavated and hauled material to ensure easy and safe podestrain and vehicular traffic to and from adjacent sites.

10. Existing propone tanks, if any, to be removed by supplier prior to demolition.

11. The contractor shall perform a full-depth saw cut along the perimeter of pavement removal that abuts existing pavement that is to remain.

12. Any demage sustained by kenns that are to remain in place shall be repaired or replaced to the owner's satisfaction at no cost to the owner.

EXISTING SYMBOL LEGEND



PAVEMENT MARKING NOTES

Apply two (2) costs for all pavement markings.

Naterial description: a fast drying, high hiding marking paint for concrete, brick and bituminatus surface, this product has been designed for painting centerlines and edgelines of highways, city crosswalks and stop zones, parking lets, traffic asistes, etc. Do not apply to in temperatures below 50 F.

Paint properties:

A. Pigment 4991, yellow -- lead-free organic yellow min. 4.8% titanium dioxide min. 2.8 % calcium carbonate max. 93%

B. the percentage pigment by weight of the finished product shall not be less than 50% no more than 54%, (ASTM D3723)

C. Vehicle: the non-voisible portion of the vehicle shall be composed of a 100% acytic polymer and shall not be less than 44% by weight. (ASTM D2697)

D. Organic volatiles: the finished point shall contain less than 150 grams of voisible organic matter per liter of total paint. (ASTM D3960)

Trafa solicit: the finished point shall contain less than 150 grams of voisible organic matter per liter of total paint. (ASTM D3960)

Organic volatiles: the finished paint shall contain less than 150 grams of volatile organic matter per liter of total paint. (ASTM D3960)
Total solidist: the finished paint shall not be less than 73% total non-volatile by weight (ASTM D2360)
Grind: the paint shall have a grind of not less than 3 on a hegman grind gauge. (ASTM D210)
Viscosity: the consistency of the paint shall not be less than 33 on one than 98 ker builts at 77° F. (ASTM D520)
Freeze / There stability: the paint shall show no congulation or change in consistency greater than 10 krab units after 3 cycles. (ASTM D2243)
Heat stability: the paint shall show no congulation, discoleration, or change in consistency greater than 10 krab units when restend in accordance conference or consistency greater than 10 krab units when restend in accordance consistency greater than 10 krab units when restend in accordance consistency greater than 10 krab units when restend in accordance consistency greater than 10 krab units when restend in accordance that the paint shall show to consistency greater than 10 krab units when restend in accordance that the paint shall show to consistency greater than 10 krab units when restend in accordance that the paint shall show to consistency greater than 10 krab units when restend in accordance that the paint shall show to consistency greater than 10 krab units when restend in accordance that the paint shall show to consistency greater than 10 krab units when restend in accordance that the paint shall show the consistency greater than 10 krab units when restend in accordance that the paint shall show the consistency greater than 10 krab units when restend in accordance that the paint shall show the consistency greater than 10 krab units when restend in accordance that the paint shall show the paint shall show the paint shall show the paint shall show the paint shall be paint shall show the paint shall

reverse specification (1-Y-19528, section 4.5.8.

Storage stability: after 30 days storage in a three quarters filled, closed container, the paint shall show no caking, skinning, fivering, curding, biological growth, or hard setting, the viscosity shall not change more than 5 kreb units from the original sample.

No pick-up time: the no pick-up time shall be less than 10 minutes, the test shall follow the requirements of ASTM D711 with a wet film thickness of 0.38 mm (15 mils).

mm (25 mms).

Dry through time: the pallst, when applied to a non-absorbent substrate at a wet film thickness of 0.38 mm (45 mils) and placed in a humidity chamber controlled at 90 + 7-5% r.h. and 72.59 + 7-1.49 F shall have a dry through time not greater than 15 minutes when tested in a coordance with ASTM D1640.

STORM SEWER NOTES

1. Storm sewer shall be constructed in accordance with the following:

A. "Standard Specifications for Water and Sewer Main Construction in Illinois" (Standard Specifications), seventh edition dated May 2014, and all revisions and supplements thereto.

B. Concrete paverment shall be constructed in accordance with the Illinois Department of Transportation (IDOT) "Standard Specifications for Road and Bridge Constructions" (Standards and Standards shared Specifications), latest edition, including all updates and standards thereto.

C. Standards and Standards and Standards and Standards and Standards and Standards shared Standards and Standar

DR35, respectively. oncrete sewer pipe (10" diameter and smaller), minimum Class 3, ASTM C14.

Concrete sewer pipe (10" diameter and smaller), minimum Class 3, ASTM C14.

Rainforcad concrete pipe, (12" diameter and largni, circular indirocument, minimum Class 3, wall B, ASTM C76.

Rainforcad concrete arch. culvert pipe—double libe reinforcement, minimum Class 3, ASTM C506.

Rainforcad concrete eligibital culviert pipe—minimum Class HF-III Or VE-III, ASTM C507.

PVC underdrain pipe (4" and 6")—ASTM D2728, SDN33.

Calvantened, corresponded sete culverte pipe ASTM D1466, Type B, minimum wall thickness 14 gauge (shall only be used for culverts).

Sewer Pips Joints.

a. ABS piper-ASTM C443.
b. PVC piper-ASTM C443.
b. PVC piper-ASTM D343.
c. Reinforced concrete piper-ASTM C443 ("O" ring).
d. Reinforced arch or elliptical piper-ASTM C443 ("O" ring).
d. Reinforced arch or elliptical piper-ASTM C877.
Casing Pipers. Steal piper-ASTM A120, 378" minimum thickness.

Whatbless and C4tch Babiss.

Size and Catch Sacino.

Precast reinforcact concrete—ASTM C478.

Size:

For saver righteen inches in diameter or less, manhole shall have a forty-eight inches inside diameter.

For saver righteen inches in diameter or less, manhole shall have a sorty inch inside diameter.

For saver twenty-one to birity-six inches in diameter, manhole shall have a moffest diare pipe of forty-eight inches inside diameter.

For saver greater than thity-six inches in diameter, manhole shall have a moffest diare pipe of forty-eight shall have a moffest pipe of the pipe of the shall be allowed.

Adjustment: No more than two precast concrete adjusting rings with six inch maximum helph a quartment shall be allowed.

Adjustment: No more than two precast concrete adjusting rings with six inch maximum helph a quartment shall be allowed.

Bottom sections: All bottom sections shall be monolithically precast including bases and invert flowlines.

Bottom sections: All bottom sections shall be monolithically precast including bases and invert flowlines.

act reinforced concrete ASTM C478 and ASTM C443

Precast reinforced concrete-ASIM CAPES and ASIM CAPES.

Size, linkets had have a twenty-frow rinch hairde diameter days with kind reinforced concrete. Size of the second Castings (Unless otherwise noted within the plans)
Manholer frame and cover-use are linet as isteed below unless specified as a "closed lid" in this plan set. Closed lid frame and covers shall be Neenah No.
R-1772-C embossed "STORM SEWER".
Manhole tipe—Seenah No. R-1891-1.
Manhole tipe—Seenah No. R-1891-1.

a. Manhole stope—Receal No. R-1981-1.

b. Six inch curb and gibter infelt—Neemah No. R-3032,
c. Yard infelt—Neemah No. R-2579,
d. Parking for infelt—Neemah No. R-2599,
d. All and sanctions St^* and greater hall come equipped with trash grate and foe block in compliance with illinois Department of Transportation standard.
All and sanctions St^* and greater hall come equipped with trash grate and for block in compliance with illinois Department of Transportation standard.
All and sanctions St^* and greater hall come equipped with trash grate affective, damaged or unacound pipe or pipe that has been discurred after laying. Protect open ends with a stopper to prevent earth or other material from entering the pipe daring construction. Remove dist, excess water, and other foreign materials from the laterier of the pipe during the pipe sixing progress, and other foreign materials from the laterier of the required location as included in the laterier of the route. Lay Pipe to the required line and slope gradients with the accessary littings, bends, manhole, fixers and other appurtaments placed at the required location as noted on Developer.

s. ander and within two feet of any existing or proposed pavernent shall be backfilled with granular backfill material IDOT gradation FA-6 or approved All atom secures under and within two feet of any existing or proposed paverment shall be DECEMBED WILL INCOME.
 All atom secures under and within two feet of any existing or proposed paverment shall be DECEMBED.
 Campact backfill to 98 percent of maximum density in accordance with ASTM DEST, or proposed paverment shall be DECEMBED.

Compact Described by ASSHTO TIZEO.
 Do not backfilk treaches until required tests are performed and utility systems comply with and are accepted by applicable governing authorities.
 Backfill trenches to contours and elevations shown on the drawlinds.

GENERAL PAVING NOTES

1. All pavement shall be constructed in accordance with the following:

A. Concrete polymement that B or constructed in accordance with the following:

A. Concrete polymement that B or constructed in accordance with the Illinois Department of Transportation (IDOT) "Standard Specifications for Road and Bridge
Construction" (Shandards send requirements so City of Crystal Lake.

C. Additional details and requirements provided in the contract documents, including this plan set.

2. All proposed pavement areas shall be stripped of all topsoil and unsuitable material and accavated or filled to within 0.10 feet of design subgrade.

3. The cubgrade of pavement areas shall be refer all unsuitable material and state or minimum 95 per cent of Standard proctor density.

4. The cubgrade of pavement areas shall be refer all unsuitable material and shall be compacted to a minimum 95 per cent of Standard proctor density.

4. The cubgrade of pavement areas shall be refer all unsuitable material and shall be compacted to a minimum 95 per cent of Standard proctor density.

4. The cubgrade shall be proof rolled, inspected and approved by the City of Crystal Lake prior to placing the base material. Notify the engineer at least 48 hours prior to Instinct output of the process of the

e preparation.
rated shall be responsible for removal of spoil material from the Underground contractors, preparing the readway subgrade, proof rolled, placing
m depth of 4 inches to finished grade in the parkways areas only, grading of drainage swales, and all other tasks as directed by the owner or

engineer.
The quantities contained in these documents are approximate and estimated, and are presented as a guide to the contractor in determining the scope of work. It is the Contractor's responsibility to determine all quantities and to become familiar with the site and soil conditions.
The paying Contractor is responsible for the final subgrade preparation, proof refiling, the payment beaus, binder, and surface, and all final clean-up and related

In a guardess' constraint of these accounts of the contractor's responsibility to determine all quarties and a summation of the contractor's responsibility to determine all quarties and to become familiar with the piece and all straints and a surface, and all final clean-up and related work associated with the paving operation.

The proposed pavement shall be of the type and thickness as specified in the engineering drawings, and constructed in strict conformance with the previously referenced IDOT standard specifications and City of Crystal Lake.

Areas of deficitive paving, including compaction, anotherses, thickness, and asphalt mixture, shall be delineated, removed, and replaced in compliance with Specifications requirements unless corrected otherwise as directed and approved by the owner.

Field quality control tests aspecified herein will be conducted by the owner.

Field quality control tests aspecified herein will be conducted by the owner.

Field quality control tests aspecified servine and conducted by the owner's independent Testing Laboratory (TI) at no cost to the costractor. Any testing and inspection resulting from the requirements of necessary permits by City of Crystal Lake or the State of Illinois shall be at the constractor. Any testing and historical control tests aspectively accordance to the contractor of the control of the state of Illinois shall be at the control of the state of Illinois shall be at the control of the section of the state of Illinois shall be and the control of the state of Illinois shall be profromed on finished surface of seal aspects control of the state of Illinois shall be profromed on finished surface of seal aspectation correct courters for smoothness, using 10°0 of varieties appeared by the control of the state of the state of Illinois shall be profromed on finished surface of seal aspectation correct courters for smoothness, using 10°0 of varieties appeared by the control of the state
REGARDING NOTE CONFLICTS

In the event of a conflict between the general notes on this sheet and the City of Crystal Lake specifications and standards, the City requirements shall take

ADDITIONAL ASPHALT PAVING NOTES

그런 이 사람들 중심하는 사람들을 살아가 되는 아니다. 사람들은 사람들은 살아 있는 것이 없는 사람들은 사람들은 사람들이 사람들이 가득했다.

1. Weather Limitations:

A. Apply prime and tack costs when ambient or base surface temperature is above 40 F, and when temperature has been above 35 F for 12 hours immediately prior to application. Do not apply when base is wet, contains excess moisture, during rain, or when frezen.

B. Construct asphalitic concrete parking when ambient temperature is above 40 F.

Naterials hall comply with the following standards of quality:

A. Asphalit Cement: Comply with AASHTO M 226; Table 2 AC_10, AC_20, or AC_40, viscosity grads, depending on local mean annual air temperature in accordance with the following chart: Hear annual air temperature 45 F or lowerAC_10 85/80 pts. Mean annual air temperature 8 F and 75 F AC_20 60/70 pts. Mean annual air temperature AC_40 75 F or higher

B. Prims Cost: Medium conting out, beck-payling out, beck-pa

specimeatoris.
Asphalt_Aggregate Mixture: Unless otherwise noted on the Drawings, design mix shall have minimum stability based on 75_blow Marshall complying with
AASHTO T245 of 1000 pounds with flow between 0.08 and 0.16 laches. The design mix shall be within sleve analysis and bitumen ranges specified below

MASTICL 124S of LOD points with Nov interest of an involved mode and of London.

Includes approved otherwise by the eighber prior to placament.

It design shall comply with the following:

Base Course: Illinois Department of Transportation (IDOT) approved mix for Hot-Mix Asphalt Surface Course, Mix "C", NSD.

Surface (Wearing), Course: Illinois Department of Transportation (IDOT) approved mix for Hot-Mix Asphalt Sinder Course, Mix "C", NSD.

Surface (Wearing), Course: Illinois Department of Transportation (IDOT) approved mix for Hot-Mix Asphalt Sinder Course, IL-12.5, NSO.

move loose material from compacted base material surface immediately before applying prime cost.

Remove loose makeful from compacted base material surface immediately before applying prime coat.
Establish and matrix nequired lines and elevation.

Cover the surfaces of curiss, getters, meaholes and other structures on which the asphaltic concrete mixture will be placed, with a thin, uniform coat of liquid
applate. Where the asphaltic controle mixture will be placed against the vertical face of an existing pavement, clean the vertical face to remove foreign substances
and apply a coating of liquid asphaft at a rate of approximately 0.25 gallons per square yard.

ne Coast.
Apply to base material surfaces at least 24 hours in advance.
Apply at minimum rate of 0.25 gaf per sq. vd over compacted base material. Apply to penetrate and seal, but not flood surface.
Take necessary precautions to protect adjacent areas from over spray.
Cure and dry as long as necessary to attails penetration of compacted base and evaporation of volatile substances.

ck Coat:
Apply to contact surfaces of previously constructed asphaltic concrete base courses or Portland coment concrete and surfaces abettling or projecting into asphaltic concrete paverneat.
Apply tack cost to asphaltic concrete base course or and asphalt base course. Apply emulsified asphalt tack cost between each lift or layer of full depth asphaltic concrete and sand asphalt bases and on surface of bases where asphaltic concrete and sand asphalt bases and on surface of bases where asphaltic concrete paving will be constructed.
Apply at minimum rate of 0,0 Sp alp rest, vid of surface.
Allow drying until at proper condition to receive paving.
Constructed inclusion of completed compacted subgrade surface, spread, and strike off. Spread mixture at following minimum ambient temperature

paving. pacted subgrade surface, spread, and strike off. Spread mixture at following minimum ambient temperatures:

Institute 40 F. Initiatin temperature: 25 F.
Information possible arter assumements. 25 F.
Information possible arter assumement by finishing machine; however, inaccessible or irregular areas may be placed by hand methods. Spread hot mixture validarily to required depth with hot showels and rakes. After spreading, carefully amonth hot mixture to remove segregated course aggregate and rake marks. Rakes and letse used for hand spreading shall be type deglared for use on a spalar intribute. To not dump loads fairth at they can be properly spread. Workers shall not stand on loose mixture while spreading.
Paving Machine Plecement: Apply successive little of appliable concrete in transverse directions with surface course placed parallel to flow of traffic. Place asphalite paving in typical strips not less than 10°-0° wide. Asphalite concrete povement, including base and surface course, shall be placed in two or more aqual Mrs. Each little between old and now povements, or between successive days and work in manner that will provide course and only provided and only povements or between successive days and work in manner that will provide course. Clean contact surfaces of joints and apply tack coat.

work. Construction joints main any states exture, century, and shoutments as over sections or spince confections. The apply tack cast, and apply tack cast.

10. After being spread, mixture shall be compacted by rolling as soon as it will bear the weight of relief without undue displacement. Number, weight, types of rolliers, and sequences of rolling operations shall be such that the required density and surface are consistently attained while the mixture is in workable condition.

11. Compact mixture with not hand tampiers or vibrating plats compactors in a reast inaccessible to rollers.

12. Breakdown Aolling: Perform breakdown or inflain origing immediately following rolling of joints and outside adjec. Check surface after breakdown rolling and repair

eakdown Rolling! Perform breakdown or infair rolling immediately following frolling of joints and potates usige. Unless state easter of except when the placed areas by bosenhing and filling with hot material balls while maker in the Common state of the property of the p

Patching: Remove and replace paving areas mixed with foreign materials and defective areas. Cut out such areas and fill with fresh, hot asphaltic concrete. Compact by rolling to maximum surface denilty and smoothness.

Protection: After final rolling, do not permit vehicular traffic on paverment until it has cooled and hardened. Erect barricades to protect paving from traffic until mixture has cooled enough not to become marked. Any masked or marred finish surfaces shall be repaired or smoothed. Place and happlatic paving layer as continuous as possible to keep the number of joints to a minimum. Creatis joints between old and new paverment, between successive days word, and where the mixture has become coid (less than 140 degrees P). Make these joints in auch a manner as to create a continuous bond because the surface of the continuous bond continuous bond and the surface of the

concursed.

Longitudinal Joints: Coat longitudinal joints that are not completed before the previously laid mixture has cooled to a temperature below 140 degrees F, with liquid asphalt just before paving is continued.

ADDITIONAL CONCRETE PAVING NOTES

1. Naterials shall comply with the following standards of quality:
A. Perland Cement: ASTM C150 Type J, Normal ASTM C150 Type II, Migh-Early-Strength.
B. Fine Aggregate: ASTM C33, chan said grade between #100 and #4 sieve limits.
C. Conzes Aggregate: ASTM C33, uncoated crushed stone or washed gravel.
D. Water: Petable and fit of drink.
E. Water: Petable and fit of drink.
E. Water: Reducing Admixture: ASTM C494 Type A (normal) or Type D (relarder).
F. Air Entraining Agent: ASTM C599.
E. Permouded Filler Strips: ASTM D594.

Curing Compound: ASTM C309, Type 2 (white, pigmented).

ement: ASTM A615, Grade 40

I. Reinforcement: ASTN A615, Grade 40.

Physical characteristics shall comply with the following:

A. Strength: 4,000 PSI compressive strength in 28 days.

B. Mix: Hinlimen 6 bag mix.

C. Slump: Maximum 47.

D. Water to Cament Ratio: Shall not exceed 0.45 by weight.

E. Alf Entrainment: 67% ± 17%

All curb and gutter and sideworks shall be broom finished.

And cours any query and supervers are no en process missings.

Carring and protection of all contracts shall be in strict conformance with the provisions of Section 1020.13 of the Standard Specifications.

The curb and gutter shall have 1" thick premoted fiber expansion joints with 3/4" – diameter by 18-inches fong pilon round steel dowel bars at 100-foot intervals, at all PCS and PTS, and at all curb returns. Construction joints table in constructed at 20-foot intervals. The cost of these joints shall be incidental to the curb and gutter. Curb joints and ties shall be constructed in accordance with DOT standard 605001.

gutter. Curb joints and ties shall be constructed in accordance with IDOT standard 605001.

Depressed curb shall be provided for handicapped ramps and at driveway locations in accordance with IDOT standard 605001.

Sidewalk shall be a minimum of thick ktrough all driveway crossing.

Concrete Pavement Joints shall comply with the following:

Concrete Pavement Joints shall comply with the following:

A construct expansion, weskened-plane control (contraction), and construction joints straight with face perpendicular to concrete surface. Construct transverse joints perpendicular to centerline, unless otherwise detailed.

Provide points at spacing of 55-0° on centers, maximum each way. Panels shall be kept as square as possible with the length to width ratio not exceeding 125% unless otherwise noted, construct control joints for depth equal to at least 1/4 of the concrete thickness, as follows:

B. Form tooled joints in first concrete by growing top with recommended tool and finishing depth with jointer.

Form saved joints using powered save equipped with shatterproof abrative or diamond-rimmed blades. Cut joints into hardened concrete as soon as surface will not be torm, abraded, or otherwise damaged by cutting action. Contractor shall savecut tank farm and island / canopy area to mid-depth within 24 Sidensity control limits.

hours of pour.

Sidewalk contraction joint spacing shall not exceed corresponding width of sidewalk. 12' wide sidewalks shall have a longitudinal contraction joint along the center of the sidewalk and transverse contraction plotts shall be spaced at 6' max.

Center of the sidewalk and transverse contraction plotts shall be spaced at 6' max.

Administration of the sidewalk and but be seas for all required contraction and insplication provided by the seas for all required contractions and spaced as a season of the sidewalk of the season of the

objects.

D. But rights: For joints against existing pavement, place 16" long dowels eight inches into holes drilled into center of existing slab. epoxy dowels into holes with approved gropy compound, place dowels prior to concrete placement for new concrete. dowel spacing to be 24" on center unless otherwise shown on construction drawings, saw joint and fill with joint sealer.

9. Joint fillers: Extend joint fillers full-width and depth of joint, and not less than 1/2-inch or more than 1-inch below finished surface where joint sealer is indicated. (traish) joint fillers in 1-joint sealents: All joints soll be sealed with white or gray approved exterior pavement joint sealents: All joints shall be installed in accordance with manufacturer's recommendations.

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> OWNER'S NAME CASEY'S **GENERAL** STORE

CRYSTAL LAKE, IL E. TERRA COTTA AVE 8 TERRA COTTA ROAD CASEV'S RETAIL COMPANY

ANKENY, IA 50021 TACOR CLARK

CONSULTANTS

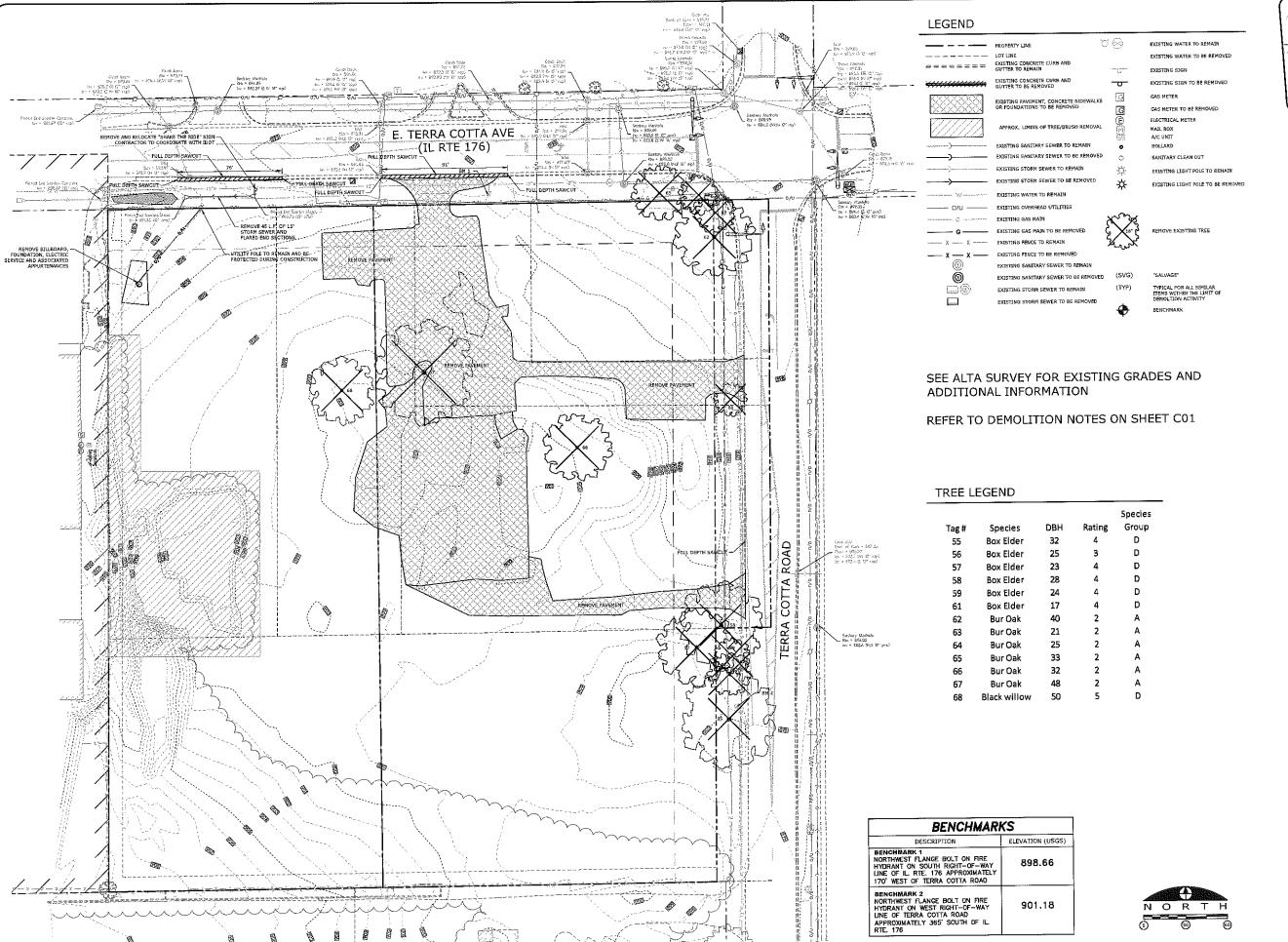
ISSUED FOR

PRELIMINARY SPECIAL USE 12-15-2015 INITIAL IDOT REVIEW 01-15-2016 SPECIAL USE 01-19-2016 REVISIONS DATE TTEM

GENERAL NOTES

DRAWN RGS CHECKED RCS

PROJECT NUMBER 15134 C02



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CONSULTANTS

ISSUED FOR	
	DATE
	12-15-2015
INITIAL IDOT REVIEW	01-15-2016
SPECIAL USE	01-19-2016
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REMOVALS PLAN

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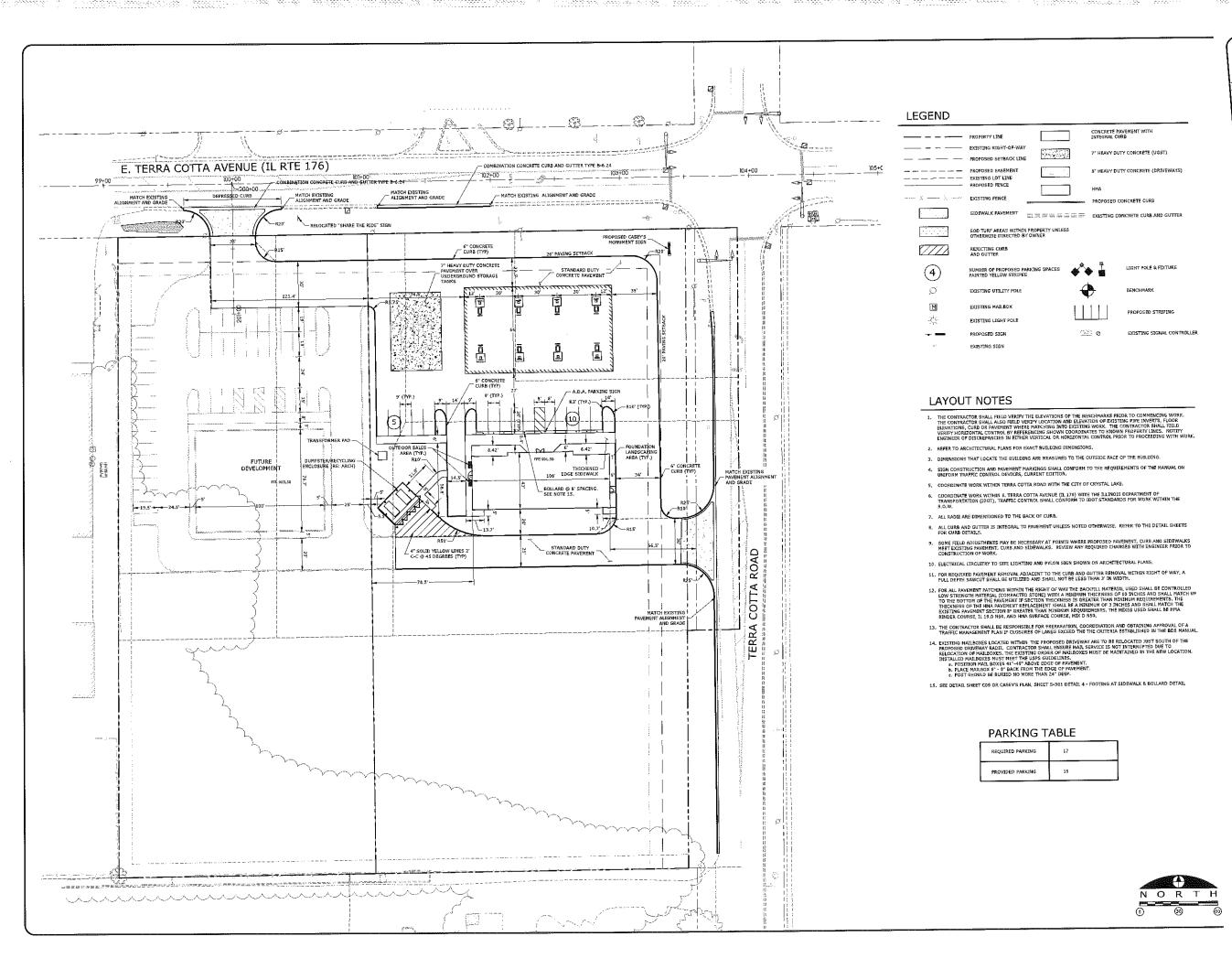
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PROJECT NUMBER
SHEET NUMBER

15134

C04



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PRELIMINARY SPECIAL USE	12-15-2015
INITIAL IDOT REVIEW	01-15-2016
SPECIAL USE	91-19-2016
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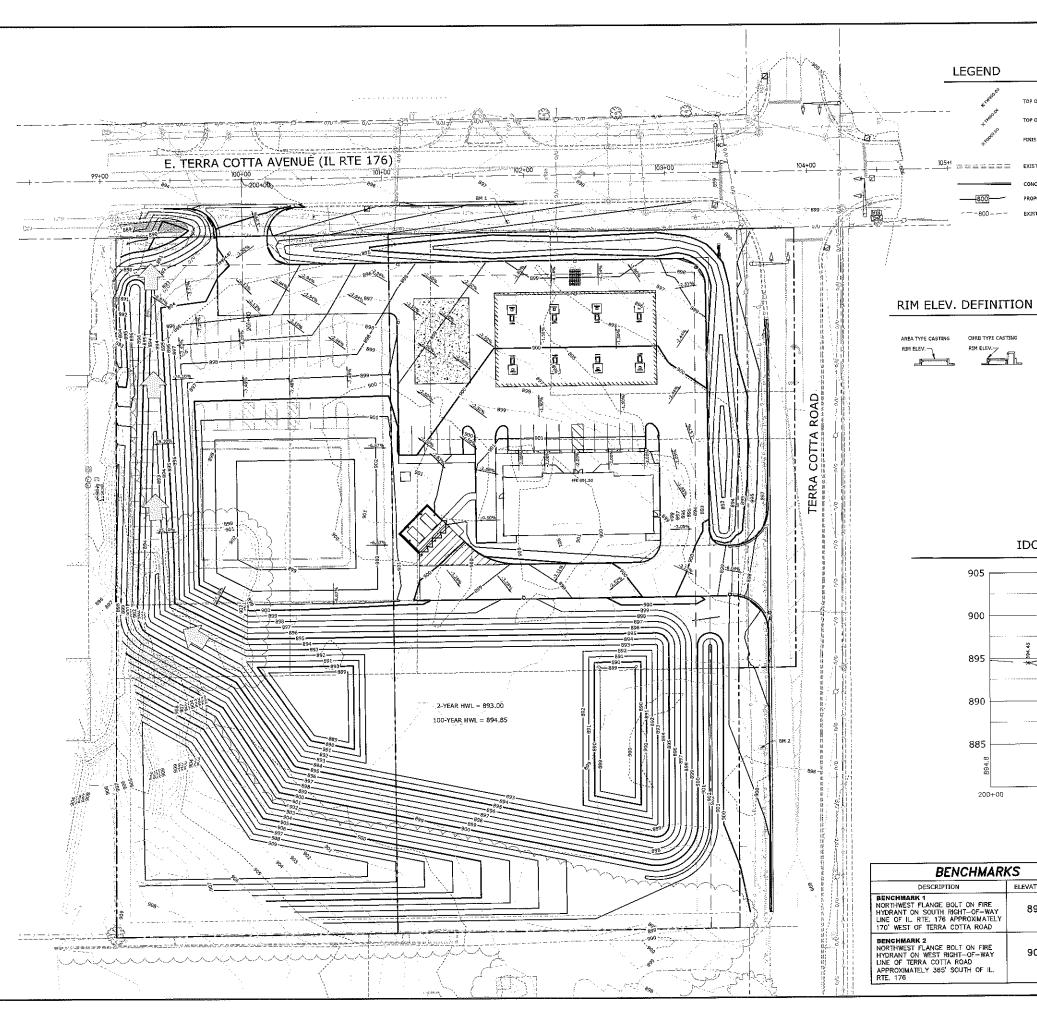
LAYOUT PLAN

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PROJECT NUMBER
SHEET NUMBER

15134

C05



LEGEND TOP OF WALK ELEVATION PROPOSED GRADE BREAK LINE FYISTING MANHOLE OR CATCH BASIN CATCH BASIN OR MANHOLE, SEE STRUCTURE TABLE FINISHED GRADE ELEVATION

DIRECTION OF SHEET FLOW PROPOSED STORM SEWER PROPOSED CONTOUR LINE EXISTING CONTOUR LINE

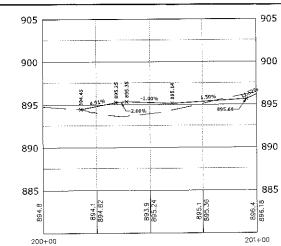
GRADING NOTES

800

RIM ELEV.

- THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO CONNENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING PIPE INNERTS, FLOOR ELEVATIONS CURB OR PAVENETY WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL OR VERTICAL CONTROL BY REFERENCING SHOWN CORDINATES OR ELEVATIONS TO HORIZONTAL OR VERTICAL CONTROL CONTROL PRIOR SHOWN CORDINATES OR ELEVATIONS TO HORIZONTAL OR VERTICAL CONTROL CONTROL PRIOR SHOWN CORDINATES OR ELEVATIONS TO HORIZONTAL OR VERTICAL CONTROL PRIOR TO PRICEEDING WITH WORK.
- ALL UNSURFACED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL AND SODDED (OR SEEDED WHERE NOTED) AND WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
- ALL STORM SYMER PIPE IS TO BE REINFORCED CONCRETE CULVERT PIPE CLASS IV UNLESS OTHERWISE NOTED. WHERE HOPE OR PVC PIPE IS LISTED AS ACCEPTABLE MATERIALS, PVC SDR 35, HOPE DOUBLE WALL (ADS 1-12), OR PVC SCHEDULE 40 MAY BE USED AT THE CONTRACTOR'S DISCRETION. THE MAXIMUM SLOPE RATIO ON CUT/FILL SLOPES IS 3.5 HORIZONYAL TO 1 VERTICAL,
- ITTE PRANTION SLAVE PAIL ON CHIPPEL STADE STADE STADE WHITE AND TO STANE PAIL BE.
 PROPERTY CORNERS SHALL BE CAREFULLY PROTECTED UNTIL THEY HAVE BEEN REFERENCED BY A PROFESSIONAL LAND SURVEYOR. PROPERTY MONUMENTS DISTURBED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL SET ALL CLEANOUT, MANHOLE AND INLET CASTINGS, FIRE HYDRANTS AND VALVE BOXES TO FINISHED GRADE.
- ALL PROPOSED PAVED AREAS SHALL BE STRIPPED OF ALL TOPSOIL AND UNSUITABLE MATERIAL AND EXCAVATED OR FILLED TO WITHIN 0.10 FEET OF DESIGN SUBGRADE.
- THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE AT THE CONCLUSION OF EACH WORKING DAY.
- 3. ROOF AND CANDPY DRAIN SHALL INCORPORATE BOOT PER DETAIL, 6" PVC PIPE SHALL EXTEND TO A MAIN AS SHOWN ON THE PLAN FOSITIVE DRAINAGE SHALL BE MAINTAINED TOWARD MAIN AT D.5% MAINIMUM SLOPE, 6" PVC CONNECTION TO BE MODE WITH INSERT-A-TEE OR ENGINEER APPROVED EQUIVALENT BETWEEN DISSIMILIAR MATERIALS.

IDOT DRIVEWAY PROFILE



BENCHMARI	(S
DESCRIPTION	ELEVATION (USGS)
ENCHMARK 1 ORTHWEST FLANGE BOLT ON FIRE TYDRANT ON SOUTH RIGHT-OF-WAY INE OF IL. RTE. 176 APPROXIMATELY 70' WEST OF TERRA COTTA ROAD	898.66
JENCHMARK 2 ORTHWEST FLANCE BOLT ON FIRE IYDRANT ON WEST RIGHT—OF—WAY INE OF TERRA COTTA ROAD IPPROXIMATELY 365' SOUTH OF IL.	901.18



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CASEY'S **GENERAL** STORE

CRYSTAL LAKE, IL E. TERRA COTTA AVE & TERRA COTTA ROAD

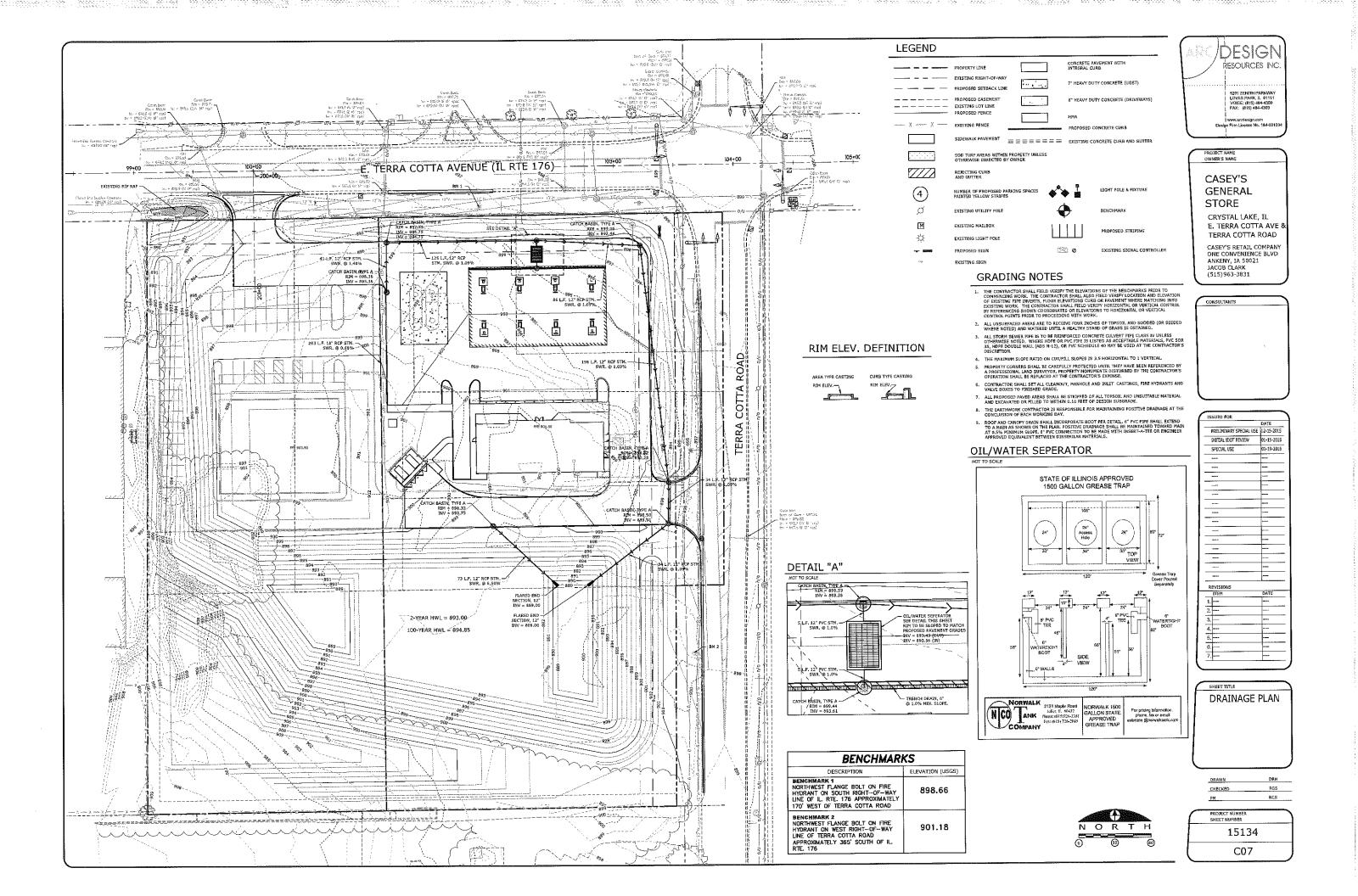
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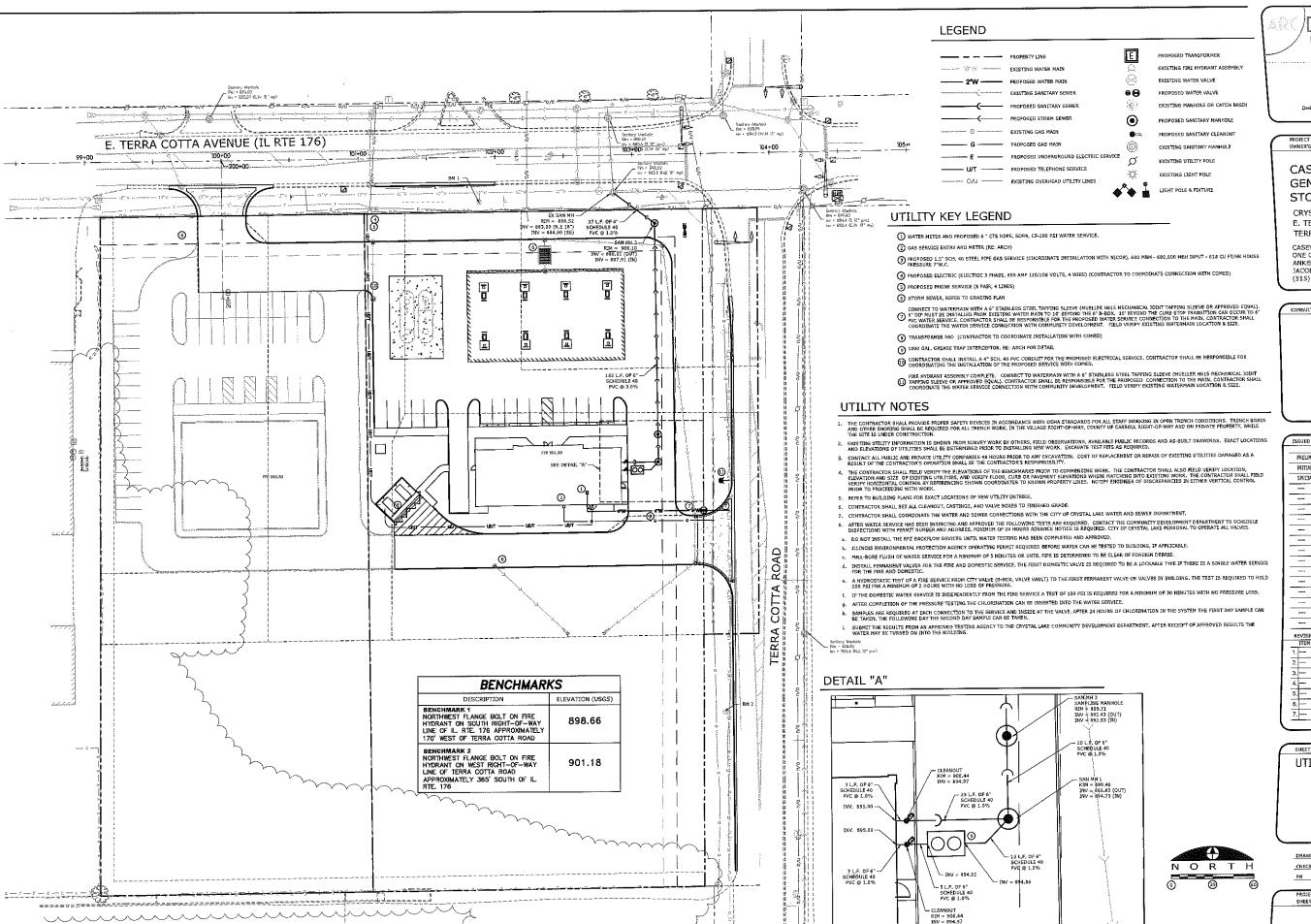
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DESIGN RESOURCES INC LOVES PARK, IL 6111' VOICE: (615) 484-4300 FAX: (815) 484-4303 Design Firm License No. 184-0013

CASEY'S **GENERAL** STORE

CRYSTAL LAKE, IL E. TERRA COTTA AVE 8 TERRA COTTA ROAD

CASEY'S RETAIL COMPANY ONE CONVENIENCE BLVD ANKENY, IA 50021 JACOB CLARK (515)963-3831

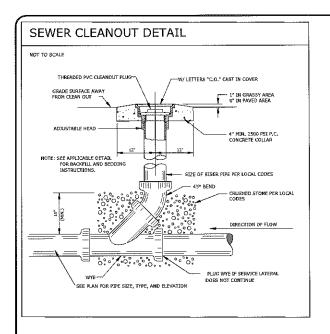
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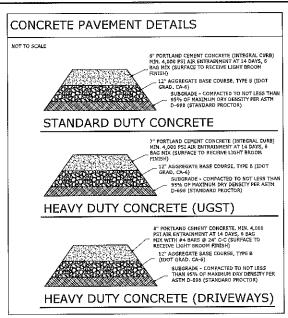
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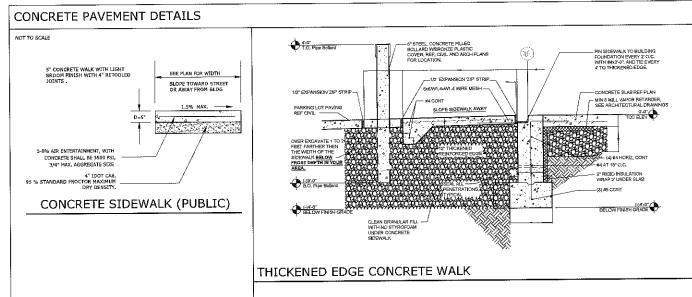
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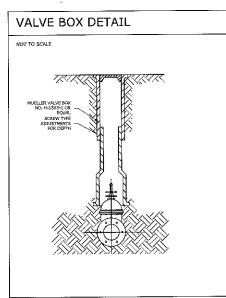
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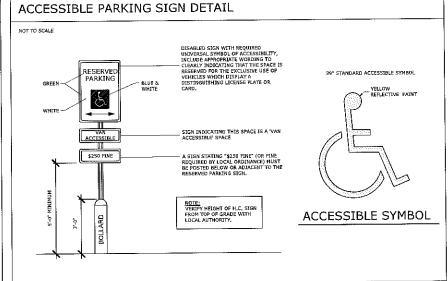
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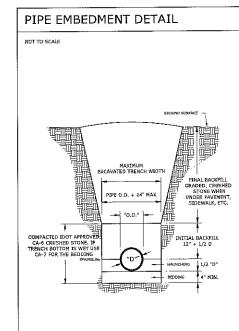


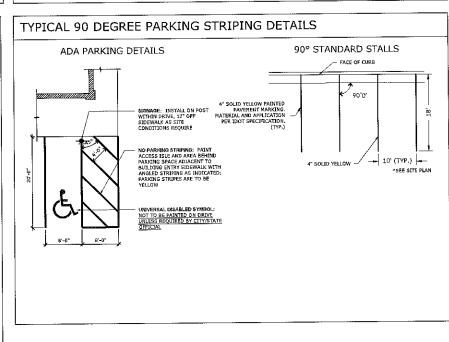










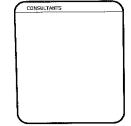




CASEY'S GENERAL STORE

CRYSTAL LAKE, IL E. TERRA COTTA AVE 8 TERRA COTTA ROAD

CASEY'S RETAIL COMPANY ONE CONVENIENCE BLVD ANKENY, IA 50021 IACOB CLARK (515)963-3831



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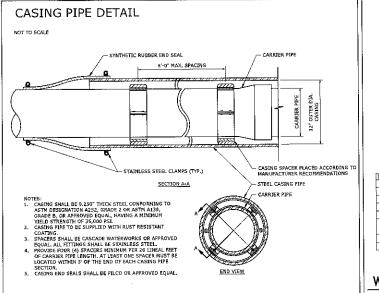
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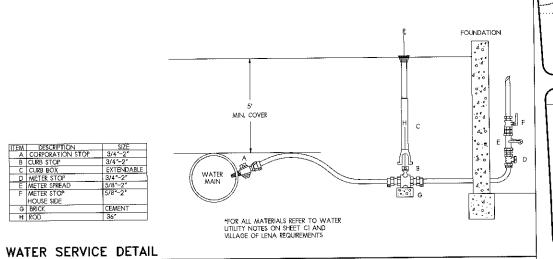
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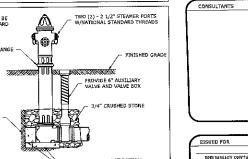




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CRYSTAL LAKE, IL E. TERRA COTTA AVE & TERRA COTTA ROAD

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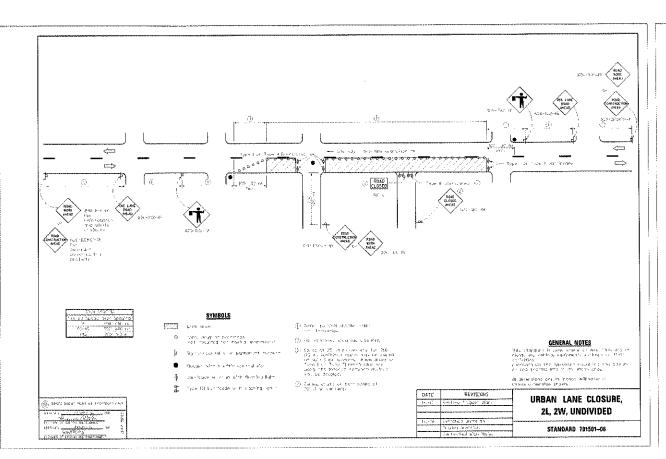
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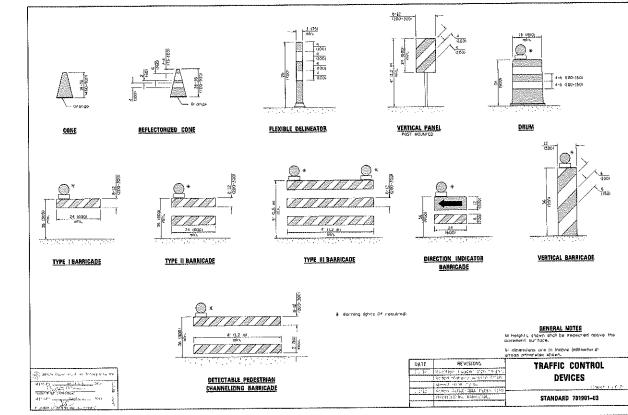
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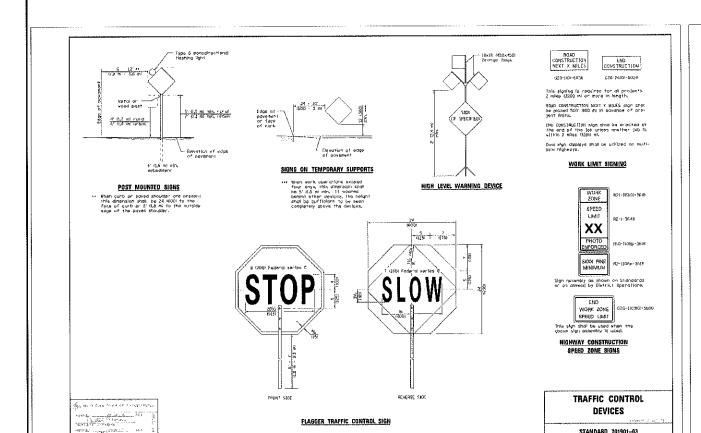
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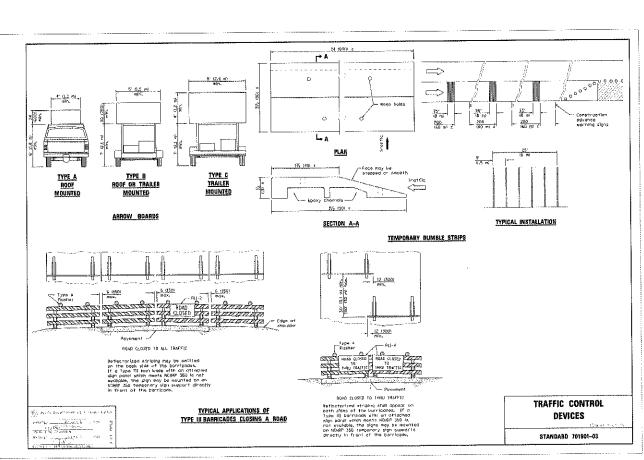
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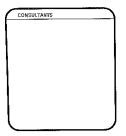




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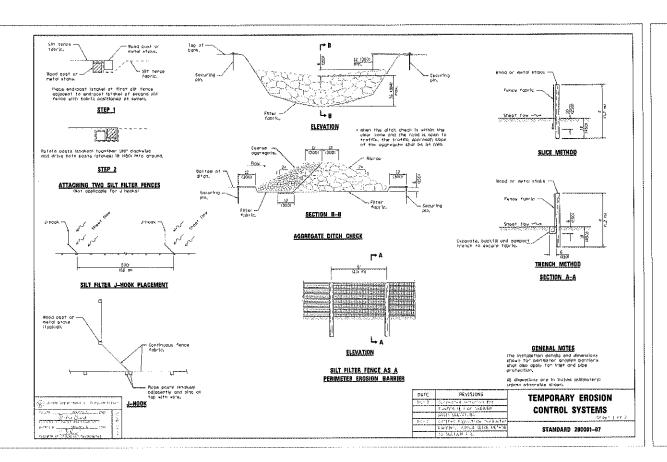
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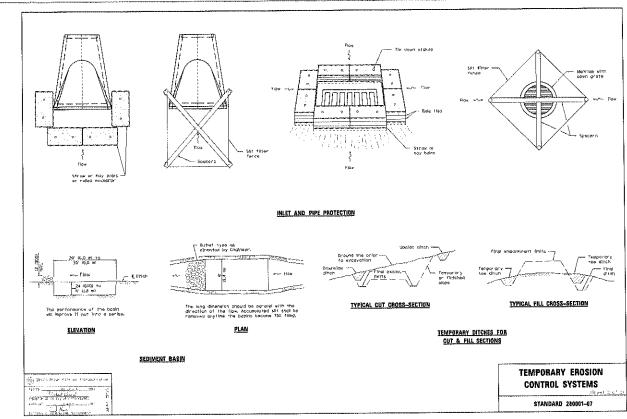
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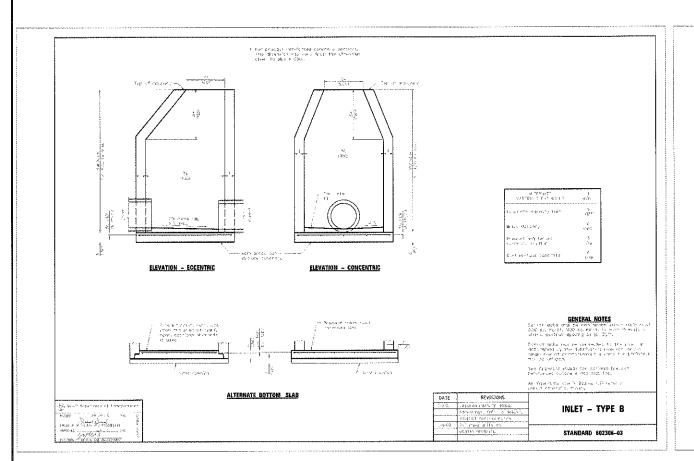
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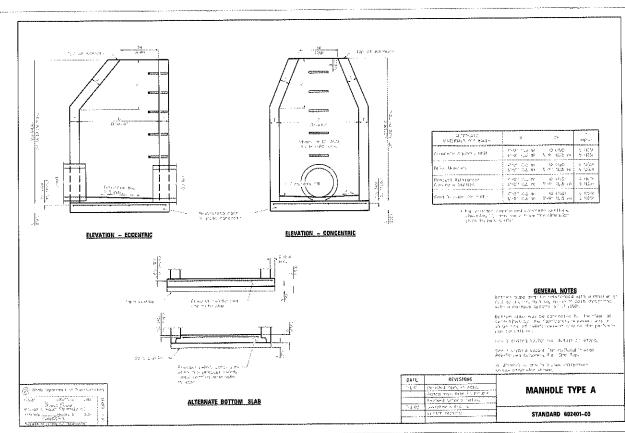
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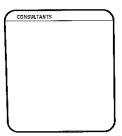




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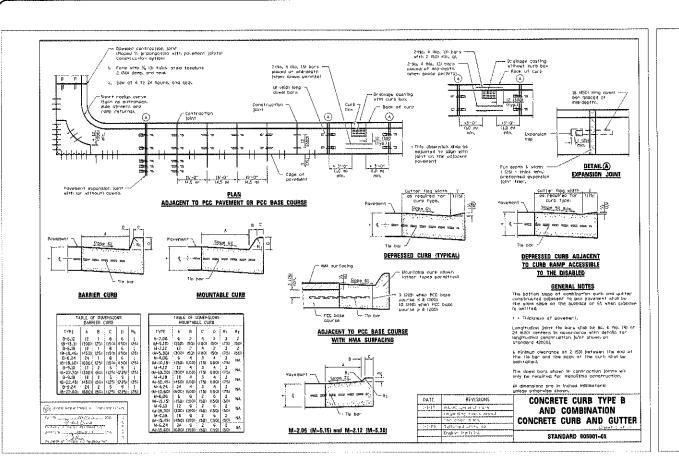


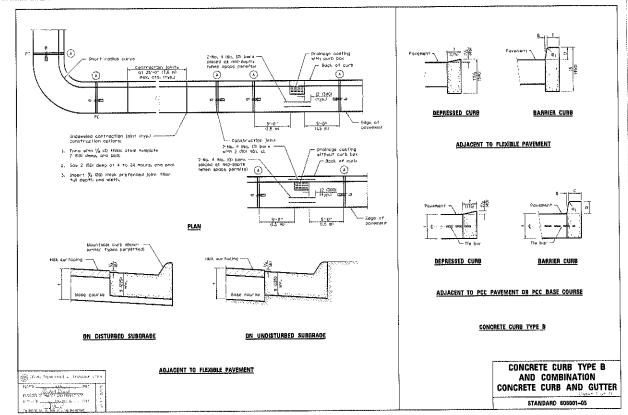
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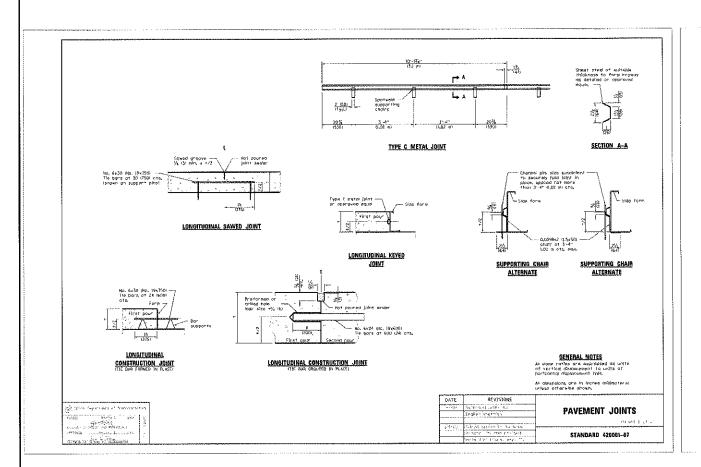
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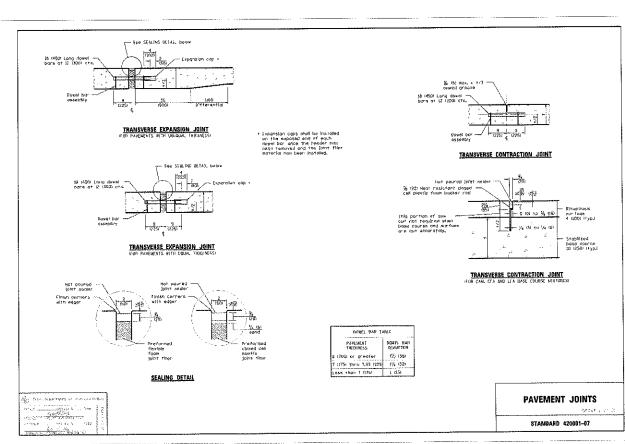
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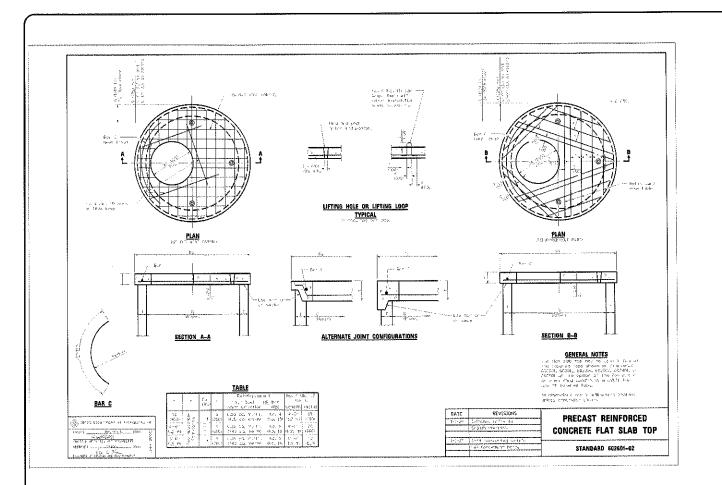
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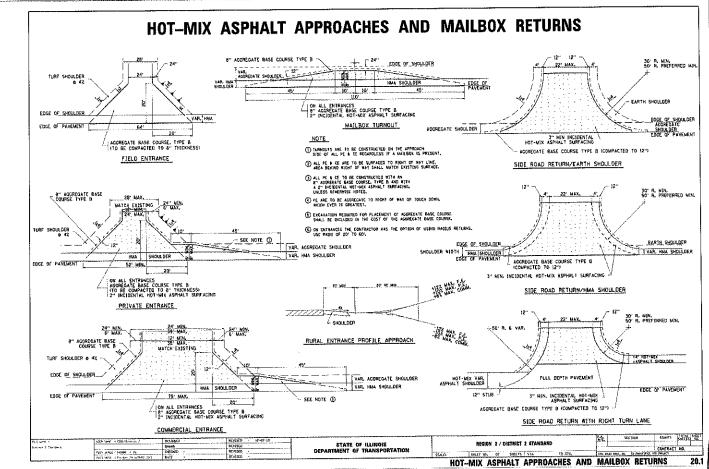
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CASEY'S GENERAL STORE

CRYSTAL LAKE, IL E. TERRA COTTA AVE & TERRA COTTA ROAD

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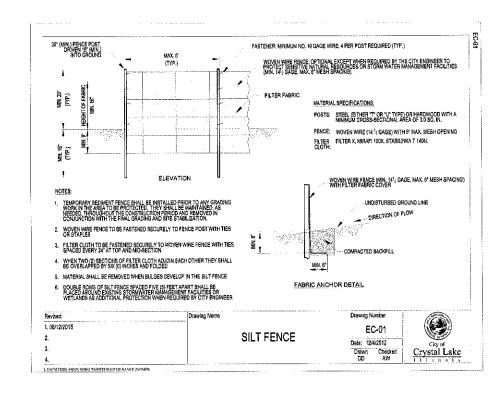


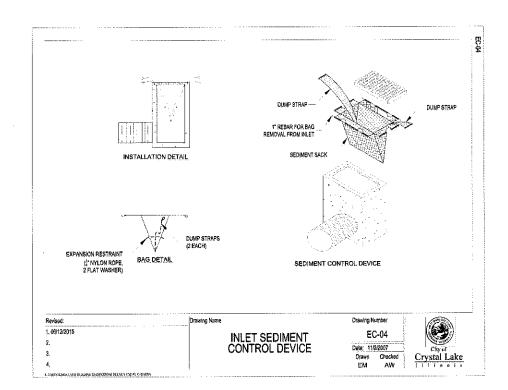
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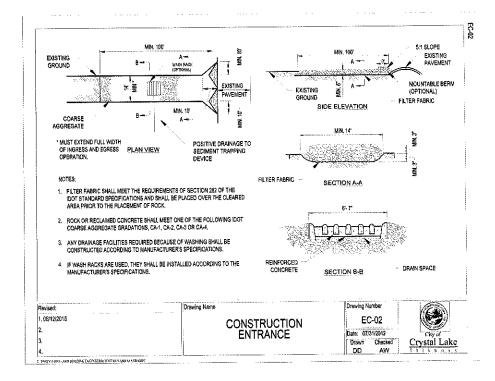
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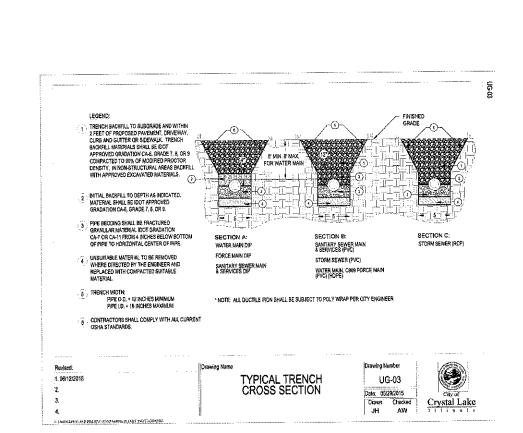
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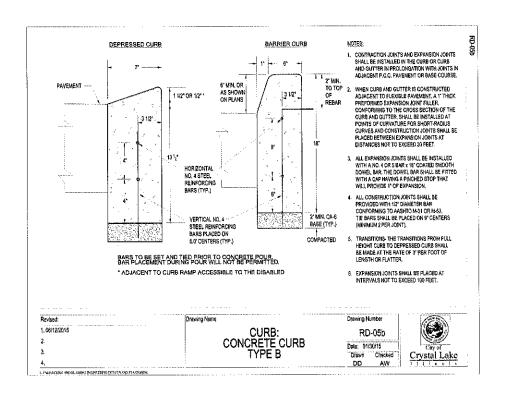
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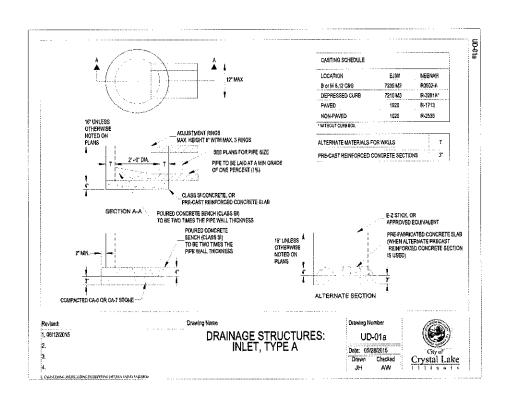


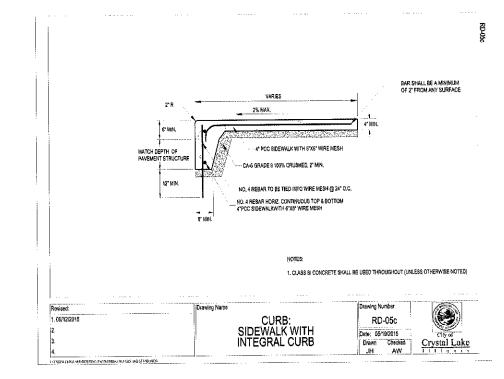
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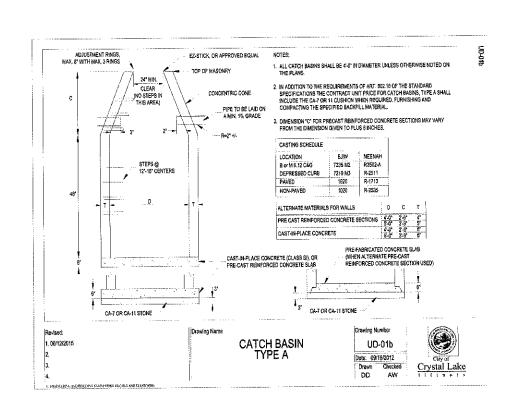
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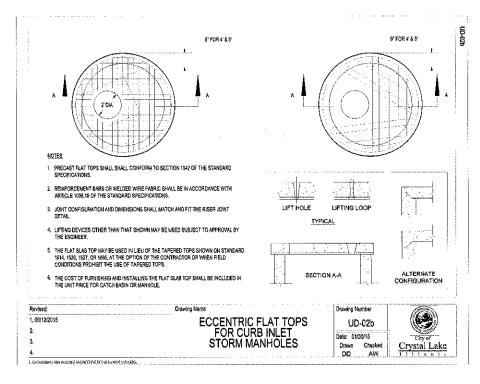
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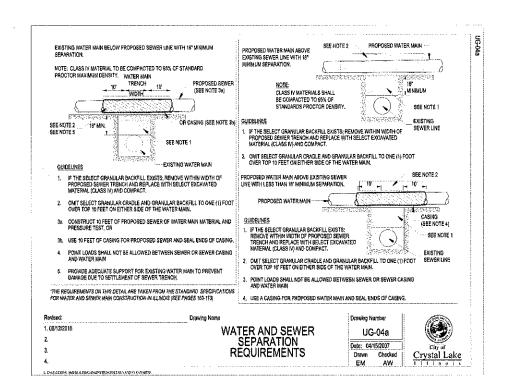


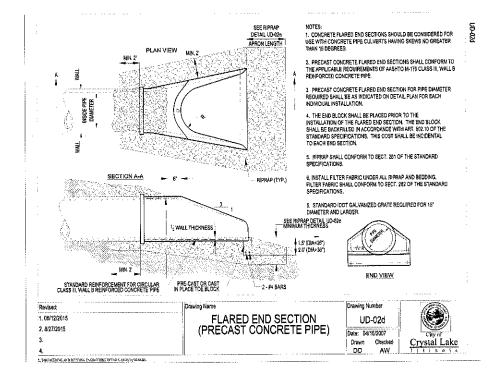
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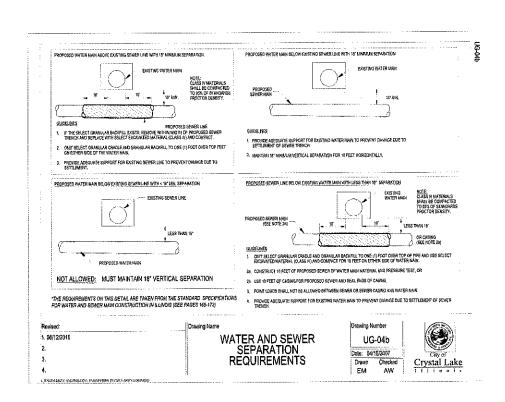
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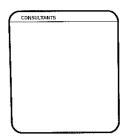


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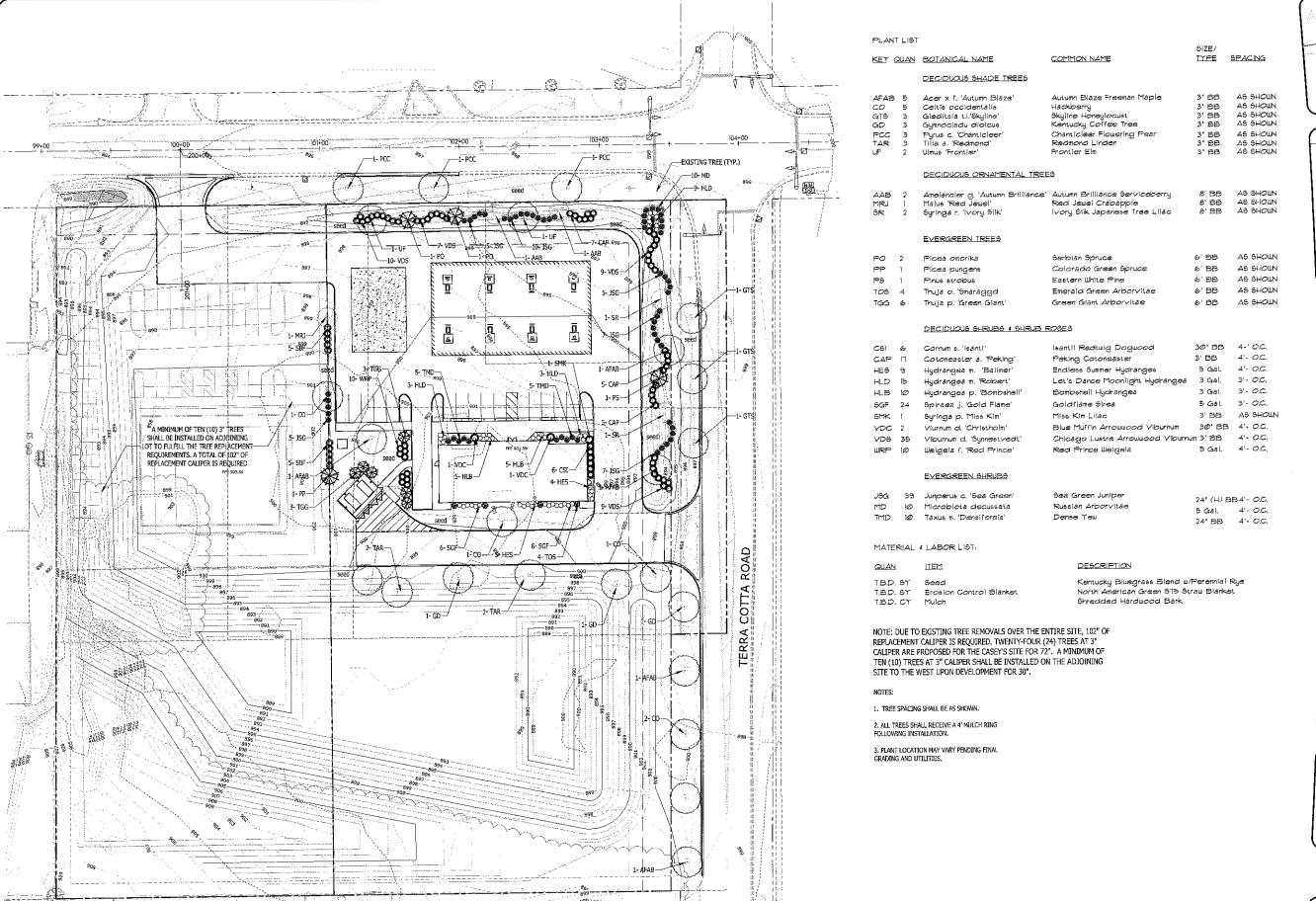


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DESIGN
RESOURCES INC.

S291 ZENTH PARKWAY
LOVES PARK, IL, 61111
VOICE: (61) 464-4303
FAX: (81) 484-4303
Iww.aucdssign.com
Design Firm License No. 184-001334

PROJECT NAME
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CASEY'S
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CRYSTAL LAKE, IL E. TERRA COTTA AVE 8 TERRA COTTA ROAD

CASEY'S RETAIL COMPANY ONE CONVENIENCE BLVD ANKENY, IA 50021 JACOB CLARK (515)963-3831

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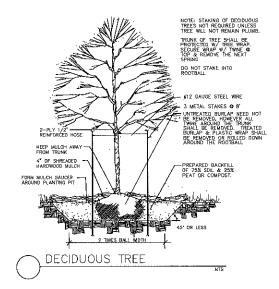
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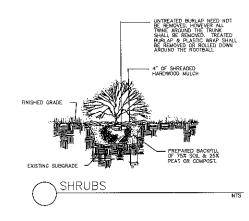
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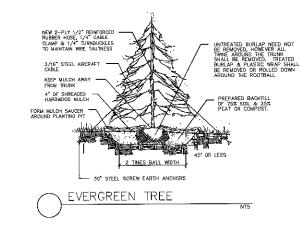
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CASEY'S GENERAL STORE

CRYSTAL LAKE, IL E. TERRA COTTA AVE 8 TERRA COTTA ROAD

CASEY'S RETAIL COMPANY ONE CONVENIENCE BLVD ANKENY, IA 50021 JACOB CLARK (515)963-3831

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GENERAL NOTES:

Plant material shall be nursery grown and be either balled and burlapped or container grown. Sizes and apreads on plant list represent minimum requirements.

Size 4 grading standards of plant naterials shall conform to the latest addition of ANSI Zeo. AMERICAN STANDARD OF NURSERY STOCK, by the American Nursery 4 Landscape Association.

Any materials with damaged or crooked/disfigured leaders, bark abrasion, sunscald, insect damage, stc. are not acceptable and will be rejected. Trees with multiple leaders will be rejected unless called for in the plant list as multi-stem or clump (cl.).

Grading shall provide slopes which are smooth and continuous. Positive drainage shall be provided in all areas,

Quantity lists are supplied as a convenience. However, the contractor should verify all quantities. The drawings shall take precedence over the lists.

All plant species specified are subject to availability. Material shortages in the landscape industry may require substitutions. All substitutions must be approved by the Landscape Architect and/or Owner.

Contractor shall verify location of all underground utilities prior to digging, For location outside the City of Chicago call "JULJE." (Joint Utility Location for Excavators) |-800-892-0123.

Contractor shall report any discrepancies in the field to the Landscape Architect and/or Owner.

Plant symbols illustrated on this plan are a graphic representation of proposed plant material types and are intended to provide for visual clarity. However, the symbols do not necessarily represent actual plant spread at the time of installation.

All planting beds and tree saucers shall be mulched with a minimum of three inches (3°) of shredded wood mulch, with the exception of evergreen trees which shall receive one inch (1°) of shredded hardwood mulch over two inches (2°) of southern plne bark.

All bed lines and tree saucers shall require a hand spaded edge between laws and mulched areas.

All areas that are disturbed by construction shall be at a minimum seeded with a Kentucky Bluegrass/Perennial Rye blend

All On-site green spaces that are not in planting or mulch beds shall be seeded with a kentuckey Bluegrass/Perennial Rye blend.

All plant material shall be guaranteed for one (i) year from the date of acceptance.

PND.	1" IRON PIPE	FND. 1* IR	ON PIPE		1	ND. 5/8* IRON PIN	\searrow		
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		J. STORIIVATER HERE	LOT 2	\ su	BO14151567 C. NO. 820587	ACES	¥	1 4 7 1	
						Sor Building OF GREACL	<u>,</u>	E LINE SE 1/4 SEC38-144N-R8E	
						8 9 9 1	33,20	E	
	SOUTH LINE LOT 2 C	F FINAL			10' UTILITY EASEMENT FINAL PLAT OF GERAC	PER :	00.03		
	SUB	IN IN IN IN IN IN IN IN IN IN IN IN IN I			ACRES SUBDIVISION 240.59'		_ \ v		
			16'54" W 4	39.72' (440.00')	FND. 1" IRON PIPE	<i>7/</i> [1 i	
	FND. 5/8" IRON PIN 0.46" E, 0.19" S					0.06" W & ONLINE THE	/		
	OWNER C	ERTIFICATION .				(TEAT ROLYTIC			
ATE OF DUNTY OF)) s.s.					ENGINEER'S DE	RAINAGE CERTI	FICATION	
e undersigned,					do hereby state that to it be changed by the re-				
d subdivided, accordi	rty embroced within the attac ing to the plat, into isombored	lots for the convenience in	selling, streets for	urveyed w the use su	ater drainage will be ch ch surface waters into p	nged, regsonable p	rovision has be	en made for	collection and diver
blic utilities services o	etual easements for storm dr as indicated, and labeled there on this plat are hereby dedic	on. All streets, Alleys, walk	ways, parks, playgr	for ac	cordance with the storm esigned by Arc Design Re	water design for			
	hat to the best of my knowle			vithin the	arted thisday of _		2016 A.D.		
undertes of the follo	wing School Districts:			_					
	Consolidated School District	· -	District 155	U)1ı	nois Licensed Professiona	Engineer			
inosa niy nana ana si	047 1143 049 01	, 246.				CITY COLB	NCIL CERTIFICA	TION	
					TATE OF ILLINOIS)		veni i i n.A		
				c	OUNTY OF MAHENRY)			,	
				A	pproved by the City Cou	ncil of Crystal Lake	thisday	/ of	, 2016.
	NOTARY PU	BLIC CERTIFICATION		M	gyor		.	_	
TATE OF	}***								
OUNTY OF) S.S. 	and for the County of		· Āi	trast: City Clerk				
the State of	do hereby certify	that			CRYSTAL L	AKE PLANNING AN	D ZONING CO	MANISSION CE	ERTIFICATION
ersonally known to m ppeared before me t	ne to be the same person wh this day and acknowledged th	ose name is subscribed to t at they signed, sealed and a	he foregoing instru delivered said instru	mentas ST	TATE OF ILLINOIS)	r			
neir free and volunta	ry act for the uses and purpo	ses therein set forth.		Ç	DUNTY OF MOHENRY) S				
	and Notarial Seal this	lav af -	nen e	l.			Chairman AF 1		e Planning and Zoni

Chairman

NOTARY PUBLIC

CASEY'S CRYSTAL LAKE SUBDIVISION

BEING A RESUBDIVISION OF LOTS 1 & 2 OF THE FINAL PLAT OF GERACI ACRES SUBDIVISION AND PART OF THE NORTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 33, TOWNSHIP 44 NORTH, RANGE 8 EAST OF THE THIRD PRINCIPAL MERIDIAN, MCHENRY COUNTY, ILLINOIS

	COUNTY HIGHWAY CERTIFICATE
STATE OF ILLINOIS) COUNTY OF MCHENRY 35.5	
Chapter 765, Act 205, Sec Cotto Avenue. Direct acces Access Control and Right-o	of this
County Engineer	
	COUNTY CLERK CERTIFICATION
STATE OF ILLINOIS) COUNTY OF MAHENRY) S	s.
l, unpaid forfelted taxes and statutory fees in connection	, County Clerk of Michemy County is the State of Illinots, do hereby certify that there are no delirquent taxes, no no redemnable tax sales against any of the land included in the subject plat. I further certify that I have received all with the subject plat.
Given under my hand and S	ed of the County Clerk, dated this day of, A.D. 2016.
COUNTY CLERK	
STATE OF ILLINOIS)	COUNTY RECORDER CERTIFICATION

SURVEYOR CERTIFICATION

This instrument was filed for recording in the Recorder's Office of McHenry County, Illinois, dated this _____day of _____

2016 at ______ O'dock, ___.M., and recorded as Document No. __

STATE OF ILLINOIS)
COUNTY OF WINNEBAGO S.S. I HERERY CERTIFY that at the request of the owners, I have surveyed and subdivided according to the attached Casey's Crystal Lake Subdivision, to locate the boundaries and corners thereof, that monuments were found or set as indicated thereon, and that the survey conforms to the normal standard of care of surveyors performing boundary surveys in Michery County, Illhois. Dimensions are given in feet and decinals of a foot, distances along curves are shown as chard lengths, Iron pips 3/4 that hi diameter and 4 feet long have been set at all other corners, unless otherwise noted.

PROPERTY DESCREED AS: Lots 1 and 2 in Geraci Acres Subdivision, being a subdivision of part of the Northeast Quarter of the Southeast Quarter of Section 33, Township 44 North, Range 8 East of the Third Principal Martidian, according to the Flat thereof recorded July 27, 1981 as Decument No. 820587, in the Recorder's Office of Malfarry County, Blacks and part of the Northeast Quarter of the Southeast Quarter of Section 33, Township 44 North, Range 8 East of the Third Principal Martidian, more particularly bounded and described as follows, to-wit:

Commencing at the Northeast corner of the Southeast Quarter of said Section 38; thence South 00"03"50" West along the East Nee of the Southeast Quarter of said Section 38; thence South 00"03"50" West along the East Nee of the Southeast Quarter of said Section 38; a distance of 300.62 feet to the North Nee, extended Eastery, of said Lot 2; therce South 89"1522" West along the North Nee, extended Eastery, of said Lot 2; and Section 38; a distance of 40.05 feet to the West Hope of Terra Cotta Road; thence South 00"03"50" West along the North Nee, extended Eastery, of said Lot 2; and said Lot 2; and said Lot 2; and said Lot 2; and said Lot 3; and said Lot 3; and said Lot 2; therce South 89"1654" West doing the South Nie of said Lot 2; and said Lot 3; and said Lot 2; therce North 80"250" East along the South right—of—way of said Terra Cotta Road; the West line of said Lot 2 and said Lot 1; a distance of 49.972 feet to the West line of said Lot 2; therce North 80"250" East along the South right—of—way of said Terra Cotta Avenue (L. Route 176), a distance of 49.922 feet Lot He West line of said Lot 2; therce North 89"2200" East along the South right—of—way of said Terra Cotta Avenue (L. Route 176), a distance of 49.922 feet Lot He Point of Beginning, containing, 5,239 cores (228,200 square feet), more or less, all being situated in the County of McHenry and State of Binols.

I FURTHER CERTIFY that I have made no independent search of the records for easements, encombrances, ownership, or titlle evidence, or any other facts which an occurate and ourrent titlle search may disclose, as part of this survey, but have reised upon the unerdical and representations supplied to me by the owners representative, and that a current Title Commitment was not farmabled to me as part of this survey.

I FURTHER CERTIFY that reference has been made upon the accompanying plat of survey to known and permanent monuments from which future re-surveys may be made and that I have found or set survey monuments as shown thereon. Discrepancies between the platted and measured location of monuments have been noted on the accompanying plat.

I FURTHER CERTIFY that no buildings on the adjacent property encroach on this property and that no buildings on this property encroach on the adjacent

I FURTHER CERTIFY that no swestigation concerning environmental and subsurface conditions, or for the existence of underground or overhead containers or facilities which may affect the use or development of this property was made as part of this survey. FURTHER CERTIFY that the location, size and/or existence of any utility service lines to the property and subsurface improvements on and adjacent to the

I FURTHER CERTIFY that this plat is situated within the corporate limits of a city which has a city plan and is exercising the special powers outhorized by Division 12 of Article II of the illinois Municipal Code, as now or hereafter amended.

I FURTHER STATE that the above described property lies within an area designated as Zone X (Areas determined to be outside the 0.2% annual chance floodplain) as identified by the Federal Emergency Management Agency on Flood Insurance Rate Map No. If III.C03351, effective date November 16, 2006. This may does not necessarily show all areas subject to flooding in the community or all planimetric features outside the special flood hazard areas. This does not guarantee that the surveyed property will or will not flood.

Dated this	day of	, 2016.

Benjomin S. Christiansen Illinois Professional Land Surveyor No. 035–3913 Arc Daujan Resources, Inc. 5291 Zenith Parkwa Loves Park, IL. 61111 (815) 484–4300



LEGEND

0	FOUND MONUMENT
N 45°52'36" E	MEASURED BEARING
586.78'	MEASURED DISTANCE
	PROPOSED BUILDING SETBACK LINE
	EXISTING BUILDING SETBACK LINE
	PROPOSED EASEMENT LINE
	EXISTING EASEMENT LINE
	SECTION LINE
	PROPOSED RIGHT-OF-WAY LINE
	EXISTING RIGHT-OF-WAY LINE
	EXISTING LOT LINE
	EXTERIOR BOUNDARY LINE
1	LOT NUMBER
S.F.	SQUARE FEET

OWNERS.

CASEY'S RETAIL COMPANY

ARC/DESIGN RESOURCES INC

5291 ZENITH PARKWA LOVES PARK, IL 61111 VOICE: (815) 484 - 430 FAX: (815) 484 - 4303 www.orcdesign.com Pasign Firm License No. 184-00133

REC	E	/ de	V	Store	CD
JAN	9	Q Q	20	6	
RY:					

SITE

66



VICINITY MAP

MUNICIPAL UTILITY EASEMENT PROVISIONS

An easement is hereby reserved exclusively for the use of the city of crystal lake as shown by dashed lines on the plat designated as "municipal utility easement" (MLLE.), to install, lay, construct, renew, operate and maintain water males with all necessary appliances for the purpose of serving the subdivision and adjoining property with water including the right to use the streets where necessary, together with the right to enter at all times to install lay, construct, review, operate and maintain said water mains. No trees, strubs, hedges, buthes, playground equipment, hads or budding may be placed within any port of said "municipal utility excernent". Fence which do not obstruct surface water drainings are allowable in said "municipal utility easement" but will not be restored by the city of Crystal Lake in the event they are removed for construction access. Any fences must not conflict with any existing use of the "municipal utility accessment" perpendicularly or near perpendicularly. No madification shall be made to the existing continues or grades of the easement as as to interfer ow with their proper operation and maintenance of overland drainings as designed without the spedific written consent of the city of Crystal Lake.

CITY OF CRYSTAL LAKE MUNICIPAL UTILITY MAINTENANCE AGREEMENT

This agreement made by and between the City of Crystal Lake, on likeois municipal corporation, referred to herein as "City" and Doller General, LLC, referred herein as "Fesporable party", for the property described lareon, which is located in the City of Crystal Lake, lithois Lake property hereinafter referred to a "premised to a "ferred to

Whereas, the term "municipal utilities" shall be defined as the following:

Water mains and service lines, located in easements designated as municipal utility easements, up to and including
the service valve and
 Seaflary sever mains, located in easements designated as municipal utility easements, up to and including the
markole.

Whereas, the responsible party is responsible for all municipal utilities to which the responsible party has a comection to located in those areas on the responsible party's premises outside of dedicated street rights-of-way and within the municipal utility oceanments.

Whereas, the city and the responsible party have held negotiations and reached agreement on the proper role of both parties regarding the maintenance of certain municipal utilities, the mustapal utilities considered for materianace by the city are those located in the parties of the responsible party's premities described as the "municipal utility accentent". Now, therefore, the City and responsible party hereby agree to the following terms and conditions:

Now, therefore, the City and responsible party hareby agree to the following terms and coadificate:

1. The city will matriate those municipal utilities described in the essement document as municipal utility element up to and including the shut off volves, the mandroles, fire hydrants and the controy sewer man, but not including the service connections and laterals (referred to as the "system"). The city's duties will include all necessary work up to and including the backfill stage in the event of repair and replacement work on the system. The reposition port of the properties be party and serviced in this responsible porty of secretzed in this ensurement document has extend in the responsible party of secretzed in this ensurement document.

2. The surface of the manifeld utility estement as shown on the plat may be grass, sod, or powerent only other makes in advantage and shown on a leadagoup plan approved by the city in the process of the manifeld utility essement.

3. The responsible perty will be responsible for prompt, quality restoration of all surface and observe grade improvements meeting or exceeding the original construction requirements of all areas on the responsible party will be responsible party and the process of respective presumpting or constructing manifeld utilities. The city agrees to exercise reasonable core in repairs made so as not to cause the responsible party to incur unnecessary demanges. Here subject to restoration by the responsible profix foother or the limited to the following (whether located is essements or dedicated rights-of-ways) private lighting cable or conduits, powerments, curb and defined and shall be binding upon and sure to the benefit of the responsible party, their successors, and assigns.

Sheet 1 of 1



Environmental Impact Statement

Proposed Service Station Southwest Corner of RT 176 and Terra Cotta Street Crystal Lake, Illinois

January 25, 2016 SMA Project No. 15-15003.00-001

Prepared For:

City of Crystal Lake 100 W. Woodstock Street Crystal Lake, Illinois 60014

Prepared By:

St. John – Mittelhauser & Associates, Inc. 1401 Branding Avenue, Suite 315 Downers Grove, Illinois 60515



EXECUTIVE SUMMARY

The City of Crystal Lake (Crystal Lake) retained St. John – Mittelhauser & Associates, Inc., (SMA) to provide assistance in the development of an environmental impact statement (EIS) for a proposed gasoline service station at the southwest corner of Rt. 176 and Terra Cotta Street in Crystal Lake, McHenry County, Illinois (the Site).

The Site is located in an area of permeable sand and gravel within 20 feet of land surface. These coarse grained soils are well drained and are expected to convey liquids vertically with little to no lateral migration. According to the Illinois State Water Survey (ISWS), groundwater flow is to the east - southeast, towards the Fox River. The closest municipal wells (City of Crystal Lake Municipal Well Nos. 10, 11, and 14) are located approximately 2,000 feet north-northwest (upgradient) of the Site. The nearest downgradent potable water well is located approximately 400 feet east of the Site. The nearest downgradient wetland is located approximately 4,200 feet to the southeast (at the corner of East Crystal Lake Avenue and Prairie Ridge Road).

According to information provided by Arc Design Resources, Inc. (Arc Design) and Casey's General Stores (Casey's), the proposed station will utilize current technology designed to prevent a release of petroleum into the subsurface. This technology includes the use of double wall tanks, double wall piping, and containment sumps. Furthermore, electronic leak detection sensors will be placed throughout the interstitial (secondary containment) areas to monitor the UST system 24/7. In accordance with Casey's Operation and Maintenance Manual, the leak detection sensor system is inspected daily by Casey's personnel to ensure the system is functioning normally. In addition, all records are inspected by the Office of the Illinois State Fire Marshal on an annual basis. Based on the design of the proposed station, there is no reason to expect that day to day operations of the proposed station will result in a release of sufficient magnitude to negatively impact the soil and groundwater surrounding the Site.



Should a sensor indicate a release into the interstitial area, the UST and/or piping will be emptied of product, inspected, and repaired by the manufacturer. All inspections and repairs are completed under the direction of the Illinois State Fire Marshal.

Studies of petroleum plumes associated with releases from USTs indicate 75% of all containment plumes either stabilize, or are decreasing within 250 feet of the source. Additionally, this surficial sand and gravel groundwater is expected to exhibit elevated concentrations of dissolved oxygen that would significantly attenuate any released gasoline constituents. Based on this, a petroleum plume into the subsurface from the Site would likely terminate within a short distance.

Baxler & Woodman. crysta Leb., Illinois 815.452.1200 Burlington, Wasensin 414.702.7324 Out Ferel, Illinois 702.502.7070 CITY OF CRYSTAL LAKE, ILLINOIS WELLHEAD PROTECTION PROGRAM - PIR WELL NOS. 10, 11, 14 5 5-YEAR CAPTURE ZONE 10-YEAR CAPTURE ZONE-