DEPARTMENT OF PLANNING, BUILDING & ZONING
111 West Fox Street • Room 203
Yorkville, IL • 60560
(630) 553-4141 Fax (630) 553-4179

Petition 22-11
Tim Raymond on Behalf of TMF Plastic Solutions, LLC
Site Plan Approval

BACKGROUND AND INTRODUCTION

In December 2021, the Petitioner received approval to construct an approximately twenty thousand six hundred thirty (20,630) square foot addition to the north and east of the existing approximately forty-five thousand six hundred ninety-two (45,692) square foot building located on Parcel One of the subject property. The proposal also called for a stormwater pond north of the proposed addition. The addition will consist of two (2) new loading docks on the on the southeast side of the addition.

In April 2022, the Petitioner submitted a revised site plan showing a two thousand, eight hundred thirty-two (2,832) square foot addition to the southern parking lot. The proposal also increases the number of parking spaces in the southern parking lot from thirty-eight (38) to sixty-four (64), including increasing the number of handicapped accessible stalls from two (2) to three (3).

Section 13:10 of the Zoning Ordinance requires site plan review for structures on properties zoned M-1.

The property has been zoned M-1 since 1966.

The property received site plan approval for the construction of an approximately thirty-four thousand (34,000) square foot storage facility in 2008.

The revised site plan is included Attachment 1. The stormwater calculations are included as Attachment 2. WBK Engineering's comments are included as Attachment 3. The site plan that was approved in December 2021 is included as Attachment 4.

SITE INFORMATION

PETITIONER: Tim Raymond on Behalf of TMF Plastic Solutions, LLC

ADDRESS: 12127 Galena Road, Unit B

LOCATION: Approximately 0.3 Miles East of Jeter Road on the North Side of Galena Road

TOWNSHIP: Little Rock

PARCEL #: 01-01-200-002

LOT SIZE: 6.00 +/- Acres

EXISTING LAND USE: Offices and Warehouse of a Plastics Business

ZONING: M-1 Limited Manufacturing District

LRMP:

Future Land Use	Rural Estate Residential (Max Density 0.45 DU/Acre)
Roads	Galena Road is County maintained Major Collector Road.
Trails	The County has a trail planned along Galena Road.
Floodplain/ Wetlands	There is no floodplain on the property. There are no wetlands on the property.

REQUESTED ACTION: Site Plan Approval

APPLICABLE REGULATIONS: Section 13:10 – Site Plan Approval

SURROUNDING LAND USE

Location	Adjacent Land Use	Adjacent Zoning	Land Resource Management Plan	Zoning within ½ Mile
North	Single-Family Residential/Wooded	A-1 BP	Rural Estate Residential (Max Density 0.45 DU/Acre)	N/A
South	Industrial	M-1	Rural Estate Residential	N/A
East	Agricultural	A-1	Rural Estate Residential	N/A
West	Agricultural/Wooded	A-1	Rural Estate Residential	N/A

The subject property is not located within any municipal planning jurisdiction.

ACTION SUMMARY

LITTLE ROCK TOWNSHIP

Petition information was sent to Little Rock Township on May 16, 2022.

LITTLE ROCK-FOX FIRE PROTECTION DISTRICT

Petition information was sent to the Little Rock-Fox Fire Protection District on May 16, 2022.

DESIGN STANDARDS

Pursuant to Section 13:10.D of the Kendall County Zoning Ordinance, the following shall be taken into account

when reviewing Site Plans (Staff comments in bold):

Responsive to Site Conditions-Site plans should be based on an analysis of the site. Such site analysis shall examine characteristics such as site context; geology and soils; topography; climate and ecology; existing vegetation, structures and road network; visual features; and current use of the site. In addition to the standards listed below, petitioners must also follow the regulations outlined in this Zoning Ordinance. To the fullest extent possible, improvements shall be located to preserve the natural features of the site, to avoid areas of environmental sensitivity, and to minimize negative effects and alteration of natural features. Fragile areas such as wetlands and flood plains should be preserved as open space. Slopes in excess of 20 percent as measured over a 10-foot interval also should remain as open space, unless appropriate engineering measures concerning slope stability, erosion and safety are taken. **The majority of the subject property is already an improved industrial use. The only new landscaping will be around the pond. No floodplains or wetlands are located on the property. No excessive slopes exist on the property. A stormwater management permit will be required for the pond. The Petitioners are proposing to pay a fee-in-lieu as allowed by the Kendall County Stormwater Management Ordinance.**

Traffic and Parking Layout-Site plans should minimize dangerous traffic movements and congestion, while achieving efficient traffic flow. An appropriate number of parking spaces shall be provided while maintaining County design standards. The number of curb cuts should be minimized and normally be located as far as possible from intersections. Connections shall be provided between parking areas to allow vehicles to travel among adjacent commercial or office uses. Cross-access easements or other recordable mechanisms must be employed. **The property already possesses access off of Galena. The property presently has thirty-eight (38) parking spaces including two (2) handicapped parking space which will be increased to sixty-four (64) parking spaces including three (3) handicapped parking spaces**

Conflicts between pedestrians and vehicular movements should be minimized. When truck traffic will be present upon the site, the road size and configuration shall be adequate to provide for off-street parking and loading facilities for large vehicles. Barrier curb should be employed for all perimeters of and islands in paved parking lots, as well as for all service drives, loading dock areas, and the equivalent. Parking lots in industrial or commercial areas shall be paved with hot-mix asphalt or concrete surfacing. **No conflicts are foreseen. The parking lot will meet applicable surfacing requirements.**

Site Layout-Improvements shall be laid out to avoid adversely affecting ground water and aquifer recharge; minimize cut and fill; avoid unnecessary impervious cover; prevent flooding and pollution; provide adequate access to lots and sites; and mitigate adverse effects of shadow, noise, odor, traffic, drainage and utilities on neighboring properties. **Improvements are laid out to avoid adversely impacting ground water, avoid unnecessary impervious cover, prevent flooding and pollution, mitigate adverse effects of shadow, noise odor, traffic, drainage, and utilities on neighboring properties.**

Consistent with the Land Resource Management Plan-The proposed use and the design of the site should be consistent with the Land Resource Management Plan. **This is true because the use is existing.**

Building Materials-The proposed site plan design shall provide a desirable environment for its occupants and visitors as well as its neighbors through aesthetic use of materials, textures and colors that will remain appealing and will retain a reasonably adequate level of maintenance. Buildings shall be in scale with the ultimate development planned for the area. Monotony of design shall be avoided. Variations in detail, form, and setting shall be used to provide visual interest. Variation shall be balanced by coherence of design elements. **Not applicable as part of this amendment.**

Relationship to Surrounding Development-A site shall be developed in harmony with neighboring street pattern, setbacks and other design elements. **The proposed pavement addition and parking layout is in harmony with the existing use.**

Open Space and Pedestrian Circulation-Improvements shall be designed to facilitate convenient and safe pedestrian and bicycle movement within and to the property. **This is not an issue.**

Buffering-Measures shall be taken to protect adjacent properties from any undue disturbance caused by excessive noise, smoke, vapors, fumes, dusts, odors, glare or stormwater runoff. Incompatible, unsightly

activities are to be screened and buffered from public view. **Because the use is already in existence, there are no concerns regarding noise, smoke, vapors, fumes, dusts, odors or glare. The stormwater management permit will address any concerns regarding stormwater.**

Emergency Vehicle Access-Every structure shall have sufficient access for emergency vehicles. **Circulation already exists in the property for emergency vehicles.**

Mechanical Equipment Screening-All heating, ventilation and air conditioning equipment shall be screened on sides where they abut residential districts. **Not applicable as part of this amendment.**

Lighting-The height and shielding of lighting fixtures shall provide proper lighting without hazard to motorists on adjacent roadways or nuisance to adjacent residents by extending onto adjacent property. Cut-off lighting should be used in most locations, with fixtures designed so that the bulb/light source is not visible from general side view. **Lighting was addressed as part of the December 2021 site plan approval.**

Refuse Disposal and Recycling Storage Areas-All refuse disposal and recycling storage areas should be located in areas designed to provide adequate accessibility for service vehicles. Locations should be in areas where minimal exposure to public streets or residential districts will exist. Screening shall be required in areas which are adjacent to residential districts or are within public view. Such enclosures should not be located in landscape buffers. Refuse containers and compactor systems shall be placed on smooth surfaces of non-absorbent material such as concrete or machine-laid asphalt. A concrete pad shall be used for storing grease containers. Refuse disposal and recycling storage areas serving food establishments shall be located as far as possible from the building's doors and windows. The use of chain link fences with slats is prohibited. **Not applicable as part of this amendment.**

RECOMMENDATION

Pending comments from ZPAC members, Staff recommends approval of the proposed amendment to an existing site plan as proposed with the following conditions:

1. The site plan approved on December 7, 2021, shall be amended to incorporate the subject site plan (Attachment 1).

2. The site shall be developed in accordance with all applicable federal, state, and local laws related to site development and the type of use proposed for the site, including, but not limited to, securing the applicable building and stormwater permits.

ATTACHMENTS

1. Revised Site Plan
2. Stormwater Calculations
3. WBK Engineering Comments Dated May 6, 2022
4. December 8, 2021 Site Plan Approval Documents

ENGINEERING PLANS
FOR
TMF MANAGEMENT, LLC PARKING ADDITION

SECTION 1, TOWNSHIP 37 NORTH , RANGE 6 EAST
12127B GALENA RD
PLANO, IL 60545
KENDALL COUNTY
APRIL, 2022

LEGEND

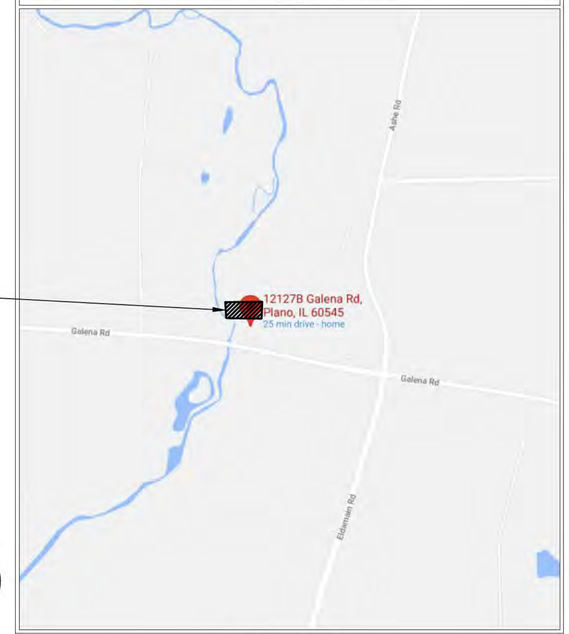
	PROPERTY BOUNDARY
600	EXISTING CONTOUR LINE
STM	EXISTING STORM SEWER
SAN	EXISTING SANITARY SEWER LINE
W	EXISTING WATERMAIN
UE	EXISTING UNDERGROUND ELECTRIC
OHE	EXISTING OVERHEAD ELECTRIC
GAS	EXISTING GAS SERVICE
T	EXISTING TELEPHONE
673	PROPOSED CONTOUR LINE
W	PROPOSED WATERMAIN
STM	PROPOSED STORM SEWER
SAN	PROPOSED SANITARY SEWER LINE
GREASE	PROPOSED GREASE SERVICE LINE
VENT	PROPOSED VENT LINE
F	EXISTING FENCELINE
SF	PROPOSED SILT FENCE
x 686.00	EXISTING SPOT SHOT
x 686.00	PROPOSED SPOT GRADE

	EXIST	PROP	
WATER:			B–BOX
			HYDRANT
			VALVE
			VALVE VAULT
STORM:			INLET–CURB
			INLET OR MANHOLE
			FLARED END SECTION
SANITARY:			CLEANOUT
			MANHOLE

R.O.W. MONUMENT	UTILITY POLE
PROPERTY PIN	GUY WIRE LOC.
P.K. NAIL	UTIL CABINET
CHISELED MARK	UTIL PEDESTAL
BENCHMARK	LIGHT POLE
HUB & TACK	TRAFFIC SIGNAL
SOIL BORING	ELECTRIC VAULT
OVERLAND RELIEF	GAS VALVE
FLOW DIRECTION	

INDEX TO SHEETS

LOCATION MAP
N.T.S.



Know what's **below.**
Call before you dig.

Contractor and or sub-contractors shall verify locations of all underground utilities prior to digging. Contact J.U.L.I.E. (Joint Utility Locating for Excavators) at 1-800-892-0123 or dial 811.

UTILITY STATEMENT

THE UTILITIES SHOWN HAVE BEEN LOCATED FROM VISIBLE FIELD EVIDENCE AND EXISTING DRAWINGS, MAPS AND RECORDS SUPPLIED TO SURVEYOR. THE SURVEYOR MAKES NO GUARANTEES THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM AVAILABLE INFORMATION. THE SURVEYOR HAS PHYSICALLY LOCATED VISIBLE STRUCTURES; HOWEVER, HE HAS NOT PHYSICALLY LOCATED THE UNDERGROUND LINES.

PROFESSIONAL ENGINEER'S CERTIFICATION
STATE OF ILLINOIS, COUNTY OF KENDALL

I JOHN J. TEBRUGGE, A LICENSED PROFESSIONAL ENGINEER OF ILLINOIS, HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY PERSONAL DIRECTION BASED ON AVAILABLE DOCUMENTS AND FIELD MEASUREMENTS FOR THE EXCLUSIVE USE OF THE CLIENT NOTED HEREON.

GIVEN UNDER MY HAND & SEAL THIS 26TH DAY OF APRIL, 2022

JOHN J. TEBRUGGE
[redacted]
REGISTERED PROFESSIONAL ENGINEER
OF ILLINOIS

[redacted]
ILLINOIS REGISTERED PROFESSIONAL ENGINEER
NO. [redacted] EXPIRES NOV. 30, 2023

BENCHMARKS:

1. NATIONAL GEODETIC SURVEY MONUMENT PID - MF0523
   LOCATED 320 FEET EAST OF THE PLANO TRAIN STATION, 21 FEET NORTH OF THE CENTERLINE OF THE NORTH TRACK, AT AN ABANDONED SIGNAL BRIDGE FOUNDATION STANDARD DISK IN CONCRETE STAMPED "Y 49 1934"

   NAVD 88 DATUM
   ELEVATION = 649.12

2. ON-SITE BENCHMARK NORTH EAST CORNER OF ELECTRIC TRANSFORMER PAD (LOCATION ON PLAN)

   NAVD 88 DATUM
   ELEVATION = 671.88

PLANS PREPARED FOR:

TMF MANAGEMENT, LLC
12127 GALENA ROAD - UNIT B
PLANO, IL 60545
PHONE: (630) 552-7575

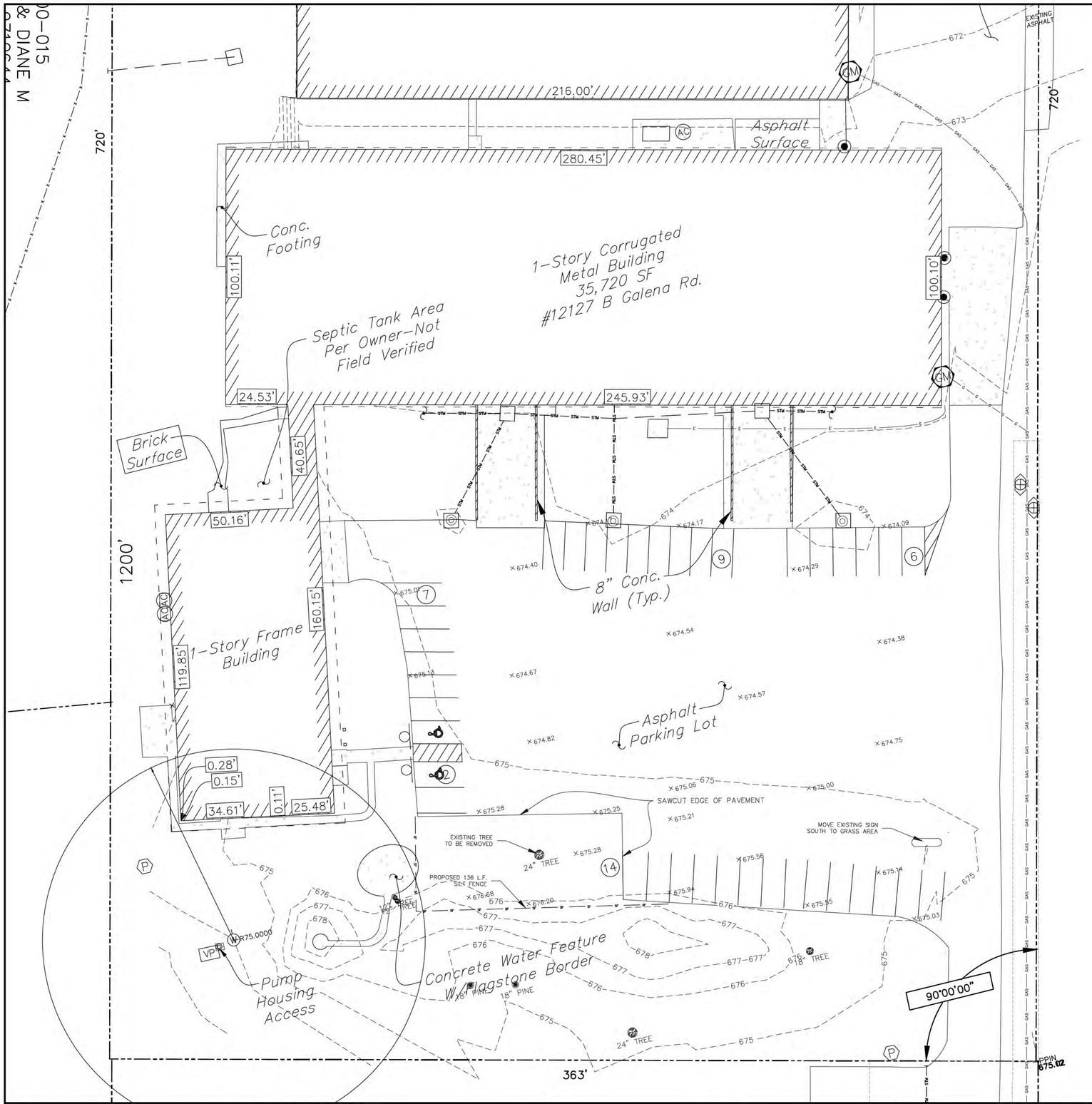
CIVIL ENGINEER:

TEBRUGGE ENGINEERING
410 E CHURCH ST - SUITE A
SANDWICH, ILLINOIS 60548
(815) 786-0195

INFO@TEBRUGGEENGINEERING.COM
WWW.TEBRUGGEENGINEERING.COM

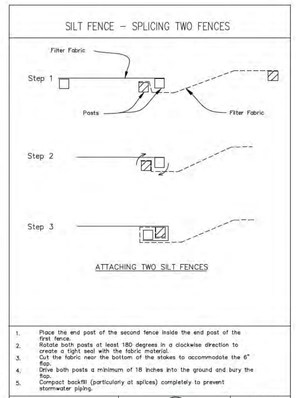
REVISIONS

NO.	DATE	NOTES
1	11.23.21	KENDALL COUNTY REVIEW EMAIL 11.23.21
2	12.13.21	WBK SITE PLAN REVIEW 12.06.21
3	12.29.21	WBK REVIEW EMAIL 12.27.21

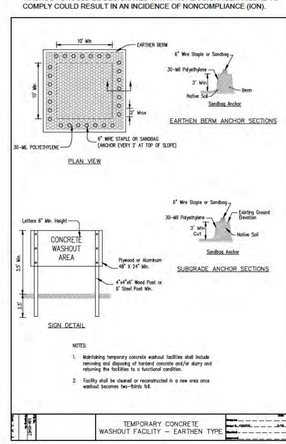


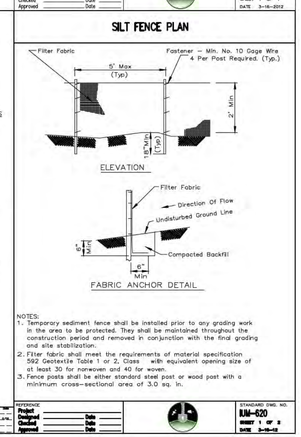
PARKING EXHIBIT

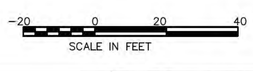
EXISTING PARKING STALLS - 36
EXISTING HANDICAP STALLS - 2
TOTAL PACKING STALLS - 38



CONCRETE WASH-OUT NOTE:
CONCRETE WASHOUT SHOULD BE CONTAINED AT ALL TIMES. WASHOUT MATERIAL SHOULD NOT BE ALLOWED TO ENTER WATER BODIES, STORM SEWERS OR LEACH INTO THE SOIL UNDER ANY CIRCUMSTANCES. ANY WASTE SHOULD BE DISPOSED OF PROPERLY AND THE LOCATION OF THE WASHOUT SHOULD BE DESIGNATED WITH PROPER SIGNAGE. FAILURE TO COMPLY COULD RESULT IN AN INCIDENCE OF NONCOMPLIANCE (ION).







TEBRUGGE ENGINEERING
410 E. CHURCH STREET - SUITE A • SANDWICH, IL 60548
PHONE: (815) 786-0195 TEBRUGGEENGINEERING.COM

REVISIONS	NO.	DATE	NOTES

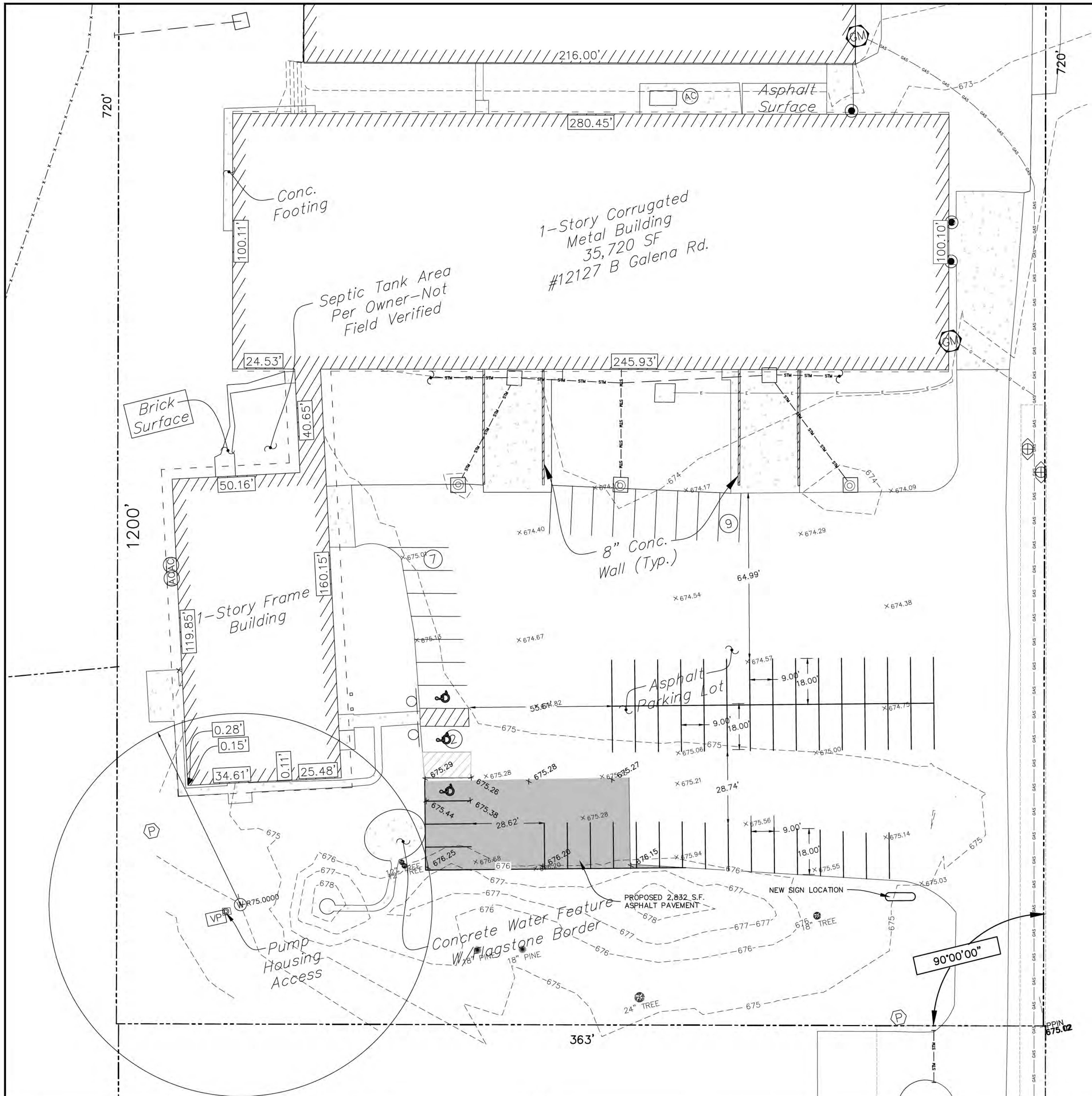
PREPARED FOR:
TMF MANAGEMENT, LLC
12127 GALENA RD-UNIT B, PLANO, IL 60545

TMF MANAGEMENT, LLC PARKING ADDITION

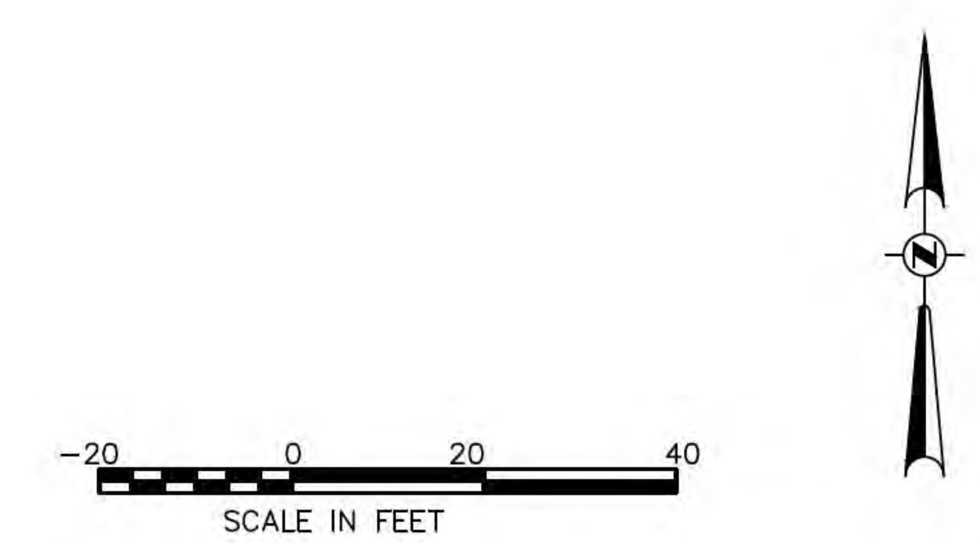
EXISTING CONDITIONS & DEMOLITION PLAN

PROJECT NO. 21 504 01
SCALE: 1" = 20'
DATE: APRIL 4, 2022

SHEET NO. 2 OF 4 SHEETS


216.00'
720'
Asphalt Surface
280.45'
Conc. Footing
1-Story Corrugated Metal Building 35,720 SF #12127 B Galena Rd.
100.11'
100.10'
Septic Tank Area Per Owner-Not Field Verified
24.53'
245.93'
Brick Surface
40.65'
50.16'
1200'
8" Conc. Wall (Typ.)
160.15'
1-Story Frame Building
119.85'
64.99'
Asphalt Parking Lot
9.00'
18.00'
28.74'
28.62'
0.28'
0.15'
34.61'
0.11'
25.48'
Concrete Water Feature W/Flagstone Border
Pump Housing Access
PROPOSED 2,832 S.F. ASPHALT PAVEMENT
NEW SIGN LOCATION
18" TREE
24" TREE
18" PINE
90°00'00"
363'

TOTAL NEW & EXISTING STALLS - 61
TOTAL NEW & EXISTING HANDICAP STALLS - 3
TOTAL PARKING STALLS - 64



TEBRUGGE ENGINEERING 410 E. CHURCH STREET - SUITE A • SANDWICH, IL 60548 PHONE: (815) 786-0195 TEBRUGGEENGINEERING.COM	REVISIONS: NO. / DATE / NOTES	PREPARED FOR: TMF MANAGEMENT, LLC 12127 GALENA RD-UNIT B, PLANO, IL 60545	TMF MANAGEMENT, LLC PARKING ADDITION **CIVIL SITE PLAN**

PROJECT NO.	21 504 01
SCALE:	1" = 20'
DATE:	APRIL 4, 2022
SHEET NO.	**3** OF 4 SHEETS

GENERAL CONDITIONS

1. ALL EARTHWORK, ROADWAY WORK, DRAINAGE WORK OR STORM SEWER WORK SHALL BE PERFORMED UTILIZING MATERIALS AND METHODS IN STRICT ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION, AS WELL AS THE STANDARD DETAIL SHEETS ATTACHED TO THESE PLANS. ALL MUNICIPAL, COUNTY, STATE AND FEDERAL REQUIREMENTS AND STANDARDS SHALL BE STRICTLY ADHERED TO IN WORK PERFORMED UNDER THIS CONTRACT.

2. ALL SANITARY SEWER AND WATER MAIN WORK SHALL BE PERFORMED USING METHODS AND MATERIALS IN STRICT ACCORDANCE WITH THE LATEST EDITION OF "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION, AS WELL AS THE STANDARD DETAIL SHEETS ATTACHED TO THESE PLANS. ALL MUNICIPAL, COUNTY, STATE AND FEDERAL REQUIREMENTS AND STANDARDS SHALL BE STRICTLY ADHERED TO IN WORK PERFORMED UNDER THIS CONTRACT.

3. ANY SPECIFICATIONS WHICH ARE SUPPLIED ALONG WITH THE PLANS SHALL TAKE PRECEDENCE IN THE CASE OF A CONFLICT WITH THE STANDARD SPECIFICATIONS NOTED IN ITEMS NO. 1 AND 2 ABOVE. THE ABOVE STANDARD SPECIFICATIONS & THE CONSTRUCTION PLANS ARE TO BE CONSIDERED AS PART OF THE CONTRACT DOCUMENTS. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE TO BE CONSIDERED A PART OF THE CONTRACT.

4. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT SAME TO THE ENGINEER BEFORE DOING ANY WORK, OTHERWISE THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.

5. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED AGAINST ALL DEFECTS IN MATERIALS AND WORKMANSHIP OF WHATEVER NATURE BY THE CONTRACTOR AND HIS SURETY FOR A PERIOD OF 12 MONTHS FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE GOVERNING MUNICIPALITY, OTHER APPLICABLE GOVERNMENTAL AGENCIES, AND THE OWNER.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FOR CONSTRUCTION ALONG OR ACROSS EXISTING STREETS OR HIGHWAYS. HE SHALL MAKE ARRANGEMENTS FOR THE PROPER BRACING, SHORING AND OTHER REQUIRED PROTECTION OF ALL ROADWAYS BEFORE CONSTRUCTION BEGINS, ALONG WITH ADEQUATE TRAFFIC CONTROL MEASURES. HE SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE STREETS OR ROADWAYS AND ASSOCIATED STRUCTURES AND SHALL MAKE REPAIRS AS NECESSARY TO THE SATISFACTION OF THE ENGINEER, AT NO ADDITIONAL COST TO THE OWNER.

7. THE UTILITY LOCATIONS, AND THE DEPTHS SHOWN ON THESE PLANS ARE APPROXIMATE ONLY, AND SHALL BE VERIFIED BY THE CONTRACTOR WITH ALL AFFECTED UTILITY COMPANIES PRIOR TO INITIATING CONSTRUCTION OPERATIONS. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY FOR THE ADEQUACY, SUFFICIENCY OR EXACTNESS OF THESE UTILITY REPRESENTATIONS.

8. PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL CONTACT THE OFFICE OF J.U.L.I.E. AT 1-800-892-0123 FOR EXACT FIELD LOCATION OF ALL UNDERGROUND UTILITIES IN THE PROXIMITY OF, AND ON, THE PROJECT SITE; IF THERE ARE ANY UTILITIES WHICH ARE NOT MEMBERS OF THE J.U.L.I.E. SYSTEM, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THIS AND MAKE ARRANGEMENTS TO HAVE THESE UTILITIES FIELD LOCATED.

9. EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR RELOCATING THESE FACILITIES AT HIS EXPENSE TO ACCOMMODATE THE NEW CONSTRUCTION.

10. ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL BE CONNECTED TO THE PROPOSED STORM SEWER OR EXTENDED TO OUTLET INTO A PROPOSED DRAINAGE WAY. IF THIS CANNOT BE ACCOMPLISHED, THEN IT SHALL BE REPAIRED WITH NEW PIPE OF SIMILAR SIZE AND MATERIAL TO THE ORIGINAL LINE AND PUT IN ACCEPTABLE OPERATIONAL CONDITION. A RECORD OF THE LOCATION OF ALL FIELD TILE FOR ONSITE DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE CONTRACTOR AND TURNED OVER TO THE ENGINEER UPON COMPLETION OF THE PROJECT. THE COST OF THIS WORK SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

11. IT SHALL BE THE RESPONSIBILITY OF EACH RESPECTIVE CONTRACTOR TO REMOVE FROM THIS SITE ANY AND ALL MATERIALS AND DEBRIS WHICH RESULT FROM HIS CONSTRUCTION OPERATIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.

12. THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OF FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.

13. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND FEDERAL SAFETY REGULATIONS AS OUTLINED IN THE LATEST REVISIONS OF THE FEDERAL CONSTRUCTION SAFETY STANDARDS (SERIES 1926) AND WITH APPLICABLE PROVISIONS AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS OF THE WILLIAMS STELGER OCCUPATIONAL HEALTH STATE SAFETY ACT OF 1970(REVISED). THE CONTRACTOR, ENGINEERS, AND OWNER SHALL EACH BE RESPONSIBLE FOR HIS OWN RESPECTIVE AGENTS AND EMPLOYEES.

14. THE CONTRACTOR SHALL INDEMNIFY THE OWNER, THE ENGINEER, AND ALL GOVERNING AUTHORITIES, THEIR AGENTS SUCCESSORS AND ASSIGNS FROM ANY AND ALL LIABILITY WITH RESPECT TO THE CONSTRUCTION, INSTALLATION AND TESTING OF THE WORK REQUIRED ON THIS PROJECT. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM THE WORK OF THIS CONTRACT IN A MANNER WHICH STRICTLY COMPLIES WITH ANY AND ALL PERTINENT LOCAL, STATE OR NATIONAL CONSTRUCTION AND SAFETY CODES. THE ENGINEER, OWNER, AND GOVERNING AUTHORITIES ARE NOT RESPONSIBLE FOR ENSURING COMPLIANCE BY THE CONTRACTOR WITH SAID CODES AND ASSUME NO LIABILITY FOR ACCIDENTS, INJURIES, OR DEATHS, OR CLAIMS RELATING THERETO WHICH MAY RESULT FROM LACK OF ADHERENCE TO SAID CODES.

UNDERGROUND UTILITIES

1. ALL UTILITY TRENCHES BENEATH PROPOSED OR EXISTING UTILITIES, PROPOSED OR EXISTING PAVEMENT, DRIVEWAYS, SIDEWALKS AND FOR A DISTANCE OF TWO FEET ON EITHER SIDE OF SAME, AND/OR WHEREVER ELSE SHOWN ON THE CONSTRUCTION PLANS SHALL BE BACKFILLED WITH SELECT GRANULAR BACKFILL (CA-6 OR CA-7) AND THOROUGHLY COMPACTED IN ACCORDANCE WITH THE EARTHWORK SPECIFICATIONS.

2. UNLESS OTHERWISE INDICATED ON THE PLANS, STORM SEWER PIPE SHALL BE REINFORCED CONCRETE CULVERT PIPE OF THE CLASS AS INDICATED ON THE PLANS, AND CONFORMING TO ASTM C-76. JOINTS SHALL TYPICALLY BE A "TROWEL APPLIED" BITUMINOUS MASTIC COMPOUND IN ACCORDANCE WITH ASTM C-76 (OR C-14 AS MAY BE APPLICABLE OR RUBBER "O"-RING GASKET JOINTS CONFORMING TO ASTM C-443). LOCATIONS WHERE THE STORM SEWER CROSSES WATERMAINS AN "O"-RING JOINT IN ACCORDANCE WITH ASTM C-361 SHALL BE USED.

3. STORM SEWER MANHOLES SHALL BE PRECAST STRUCTURES, WITH THE DIAMETER DEPENDENT ON THE PIPE SIZE AND WITH APPROPRIATE FRAME AND LIDS (SEE CONSTRUCTION STANDARDS). LIDS SHALL BE IMPRINTED "STORM SEWER". ALL FLARED END SECTIONS SHALL HAVE A FRAME & GRATE INSTALLED.

4. THESE FRAME AND GRATES FOR STORM STRUCTURES SHALL BE USED UNLESS OTHERWISE INDICATED ON THE PLAN SET, USE NEENAH R-1712 OPEN LID (OR EQUAL) IN PAVEMENT AREAS, USE NEENAH R-1772-B OPEN OR CLOSED LID (OR EQUAL) IN GRASS AREAS, USE NEENAH R-3015 (OR EQUAL) FOR B6.12 CURB AREAS, AND NEENAH R-3509 (OR EQUAL) FOR DEPRESSED CURB AREAS.

5. STRUCTURES FOR SANITARY AND STORM SEWERS AND VALVE VAULTS FOR WATER SHALL BE IN ACCORDANCE WITH THESE IMPROVEMENT PLANS AND THE APPLICABLE STANDARD SPECIFICATIONS. WHERE GRANULAR TRENCH BACKFILL IS REQUIRED AROUND THESE STRUCTURES THE COST SHALL BE CONSIDERED AS INCIDENTAL AND SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE STRUCTURE.

6. ALL STORM SEWERS AND WATERMAINS SHALL HAVE COMPACTED CA-7 GRANULAR BEDDING, A MINIMUM OF 4" BELOW THE BOTTOM OF THE PIPE FOR THE FULL LENGTH. BEDDING SHALL EXTEND TO THE SPRING LINE OF THE PIPE. COST FOR THE BEDDING SHALL BE INCLUDED WITH THE UNIT PRICE BID FOR THE PIPE.

7. THE UNDERGROUND CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING ANY EXCAVATION FOR THE INSTALLATION OF THE SEWER OR WATER SYSTEMS. ANY DEWATERING ENCOUNTERED SHALL BE INCIDENTAL TO THE RESPECTIVE UNDERGROUND UTILITY.

8. ALL STRUCTURES SHALL HAVE A MAXIMUM OF 8" OF ADJUSTING RINGS, UNLESS OTHERWISE NOTED.

9. ALL TOP FRAMES FOR STORM AND VALVE VAULT COVERS AND B-BOXES ARE TO BE ADJUSTED TO MEET FINAL FINISH GRADE UPON COMPLETION OF FINISHED GRADING AND FINAL INSPECTIONS. THIS ADJUSTMENT IS TO BE MADE BY THE UNDERGROUND CONTRACTOR AND THE COST IS TO BE INCIDENTAL. THE UNDERGROUND CONTRACTOR SHALL INSURE THAT ALL ROAD AND PAVEMENT INLETS OR STRUCTURES ARE AT FINISHED GRADE. ANY ADJUSTMENTS NECESSITATED BY THE CURB OR PAVING CONTRACTOR TO ACHIEVE FINAL RIM GRADE, RESULTING IN AN EXTRA FOR SAID ADJUSTMENTS, WILL BE CHARGED TO THE UNDERGROUND CONTRACTOR.

10. ALL FLOOR DRAINS AND FLOOR DRAIN SUMP PUMPS SHALL DISCHARGE INTO THE SANITARY SEWER.

11. ALL DOWNSPOUTS, FOOTING DRAINS AND SUBSURFACE STORM WATERS SHALL DISCHARGE INTO THE STORM SEWER OR ONTO THE GROUND AND BE DIRECTED TOWARDS A STORM SEWER STRUCTURE.

12. ANY ANTICIPATED COST OF SHEETING SHALL BE REFLECTED IN THE CONTRACT AMOUNTS. NO ADDITIONAL COST WILL BE ALLOWED FOR SHEETING OR BRACING.

13. THE CONTRACTOR SHALL INSTALL A 2"x4"x8' POST ADJACENT TO THE TERMINUS OF THE SANITARY SERVICE, WATERMAIN SERVICE, SANITARY MANHOLES, STORM STRUCTURES, AND WATER VAULTS. THE POST SHALL EXTEND A MINIMUM OF 4 FT. ABOVE THE GROUND. SAID POST SHALL BE PAINTED AS FOLLOWS: SANITARY-GREEN, WATER-BLUE, AND STORM-RED.

14. IT SHALL BE THE RESPONSIBILITY OF THE UNDERGROUND CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIALS AND DEBRIS WHICH RESULT FROM HIS CONSTRUCTION OPERATIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.

EARTHWORK

1. ALL EARTHWORK OPERATIONS SHALL BE IN ACCORDANCE WITH SECTION 200 OF THE I.D.O.T. SPECIFICATIONS.

2. THE CONTRACTOR SHALL PROTECT ALL PROPERTY PINS AND SURVEY MONUMENTS AND SHALL RESTORE ANY WHICH ARE DISTURBED BY HIS OPERATIONS AT NO ADDITIONAL COST TO THE CONTRACT.

3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL MATERIAL QUANTITIES AND APPRISE HIMSELF OF ALL SITE CONDITIONS. THE CONTRACT PRICE SUBMITTED BY THE CONTRACTOR SHALL BE CONSIDERED AS LUMP SUM FOR THE COMPLETE PROJECT. NO CLAIMS FOR EXTRA WORK WILL BE RECOGNIZED UNLESS ORDERED IN WRITING BY THE OWNER.

4. PRIOR TO ONSET OF MASS GRADING OPERATIONS THE EARTHWORK CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SOIL EROSION CONTROL SPECIFICATIONS. THE INITIAL ESTABLISHMENT OF EROSION CONTROL PROCEDURES AND THE PLACEMENT OF SILT FENCING, ETC. TO PROTECT ADJACENT PROPERTY SHALL OCCUR BEFORE MASS GRADING BEGINS, AND IN ACCORDANCE WITH THE SOIL EROSION CONTROL CONSTRUCTION SCHEDULE.

5. THE GRADING OPERATIONS ARE TO BE CLOSELY SUPERVISED AND INSPECTED, PARTICULARLY DURING THE REMOVAL OF UNSUITABLE MATERIAL AND THE CONSTRUCTION OF EMBANKMENTS OR BUILDING PADS, BY THE SOILS ENGINEER OR HIS REPRESENTATIVE. ALL TESTING, INSPECTION AND SUPERVISION OF SOIL QUALITY, UNSUITABLE REMOVAL AND ITS REPLACEMENT AND OTHER SOILS RELATED OPERATIONS SHALL BE ENTIRELY THE RESPONSIBILITY OF THE SOILS ENGINEER.

6. THE GRADING AND CONSTRUCTION OF THE SITE IMPROVEMENTS SHALL NOT CAUSE PONDING OF STORM WATER. ALL AREAS ADJACENT TO THESE IMPROVEMENTS SHALL BE GRADED TO ALLOW POSITIVE DRAINAGE.

7. THE PROPOSED GRADING ELEVATIONS SHOWN ON THE PLANS ARE FINISH GRADE. A MINIMUM OF SIX INCHES (6") OF TOPSOIL IS TO BE PLACED BEFORE FINISH GRADE ELEVATIONS ARE ACHIEVED.

8. THE SELECTED STRUCTURAL FILL MATERIAL SHALL BE PLACED IN LEVEL UNIFORM LAYERS SO THAT THE COMPACTED THICKNESS IS APPROXIMATELY SIX INCHES (6"); IF COMPACTION EQUIPMENT DEMONSTRATES THE ABILITY TO COMPACT A GREATER THICKNESS, THEN A GREATER THICKNESS MAY BE SPECIFIED. EACH LAYER SHALL BE THOROUGHLY MIXED DURING SPREADING TO INSURE UNIFORMITY.

9. EMBANKMENT MATERIAL WITHIN ROADWAY, PARKING LOT, AND OTHER STRUCTURAL CLAY FILL AREAS SHALL BE COMPACTED TO A MINIMUM OF NINETY-FIVE PERCENT (95%) OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM SPECIFICATION D-1557 (MODIFIED PROCTOR METHOD), OR TO SUCH OTHER DENSITY AS MAY BE DETERMINED APPROPRIATE BY THE SOILS ENGINEER. EMBANKMENT MATERIAL FOR BUILDING PADS SHALL BE COMPACTED TO A MINIMUM OF NINETY-FIVE (95%) OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM DESIGNATION D-1557 (MODIFIED PROCTOR METHOD) OR TO SUCH OTHER DENSITY AS MAY BE DETERMINED APPROPRIATE BY THE SOIL ENGINEER.

10. EMBANKMENT MATERIAL (RANDOM FILL) WITHIN NON-STRUCTURAL FILL AREAS SHALL BE COMPACTED TO A MINIMUM OF NINETY PERCENT (90%) OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM SPECIFICATION D-157 (MODIFIED PROCTOR METHOD).

11. THE SUB GRADE FOR PROPOSED STREET AND PAVEMENT AREAS SHALL BE PROOF-ROLLED BY THE CONTRACTOR AND ANY UNSTABLE AREAS ENCOUNTERED SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE SOILS ENGINEER.

12. SOIL BORING REPORTS, IF AVAILABLE, ARE SOLELY FOR THE INFORMATION AND GUIDANCE OF THE CONTRACTORS. THE OWNER AND ENGINEER MAKE NO REPRESENTATION OR WARRANTY REGARDING THE INFORMATION CONTAINED IN THE BORING LOGS. THE CONTRACTOR SHALL MAKE HIS OWN INVESTIGATIONS AND SHALL PLAN HIS WORK ACCORDINGLY. ARRANGEMENTS TO ENTER THE PROPERTY DURING THE BIDDING PHASE MAY BE MADE UPON REQUEST OF THE OWNER. THERE WILL BE NO ADDITIONAL PAYMENT FOR EXPENSES INCURRED BY THE CONTRACTOR RESULTING FROM ADVERSE SOIL OR GROUND WATER CONDITIONS.

13. IT SHALL BE THE RESPONSIBILITY OF THE EXCAVATION CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIALS AND DEBRIS WHICH RESULT FROM HIS CONSTRUCTION OPERATIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.

PAVING & WALKS

1. WORK UNDER THIS SECTION SHALL INCLUDE FINAL SUBGRADE SHAPING AND PREPARATION: FORMING, JOINTING, PLACEMENT OF ROADWAY AND PAVEMENT BASE COURSE MATERIALS AND SUBSEQUENT BINDER AND/OR SURFACE COURSES; PLACEMENT, FINISHING AND CURING OF CONCRETE; FINAL CLEAN-UP; AND ALL RELATED WORK.

2. ALL PAVING AND SIDEWALK WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS (I.D.O.T.) AND PER LOCAL REGULATIONS.

3. SUBGRADE FOR PROPOSED PAVEMENT SHALL BE FINISHED BY THE EXCAVATION CONTRACTOR TO WITHIN 0.1 FOOT, PLUS OR MINUS, OF THE PLAN ELEVATION. THE PAVING CONTRACTOR SHALL SATISFY HIMSELF THAT THE SUBGRADE HAS BEEN PROPERLY PREPARED AND THAT THE FINISH TOP SUBGRADE ELEVATION HAS BEEN GRADED WITHIN TOLERANCES ALLOWED IN THESE SPECIFICATIONS. UNLESS THE PAVING CONTRACTOR ADVISES THE OWNER AND ENGINEER IN WRITING PRIOR TO FINE GRADING FOR BASE COURSE CONSTRUCTION, IT IS UNDERSTOOD THAT HE HAS APPROVED AND ACCEPTS THE RESPONSIBILITY FOR THE SUBGRADE. PRIOR TO PLACEMENT OF PAVEMENT BASE MATERIALS, THE PAVING CONTRACTOR SHALL FINE GRADE THE SUBGRADE SO AS TO INSURE THE PROPER THICKNESS OF PAVEMENT COURSES. NO CLAIMS FOR EXCESS BASE MATERIALS DUE TO IMPROPER SUBGRADE PREPARATION WILL BE HONORED.

4. THE PROPOSED PAVEMENT SHALL CONSIST OF THE SUB-BASE COURSE, BITUMINOUS AGGREGATE BASE COURSE, BITUMINOUS BINDER COURSE. AND BITUMINOUS SURFACE COURSE, OF THE THICKNESS AND MATERIALS AS SPECIFIED ON THE CONSTRUCTION PLANS. PRIME COAT SHALL BE APPLIED TO THE SUB-BASE COURSE AT A RATE OF 0.5 GALLONS PER SQUARE YARD. UNLESS SHOWN AS A BID ITEM, PRIME COAT SHALL BE CONSIDERED AS INCIDENTAL TO THE COST OF THE CONTRACT. ALL PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "I.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," CURRENT EDITION.

5. AFTER THE INSTALLATION OF THE BASE COURSE, ALL TRAFFIC SHALL BE KEPT OFF THE BASE UNTIL THE BINDER COURSE IS LAID. AFTER INSTALLATION OF THE BINDER COURSE AND UPON INSPECTION AND APPROVAL BY GOVERNING AUTHORITY, THE PAVEMENT SHALL BE CLEANED, PRIMED AND THE SURFACE COURSE LAID. ALL DAMAGED AREAS IN THE BINDER, BASE OR CURB AND GUTTER SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER PRIOR TO LAYING THE SURFACE COURSE. THE PAVING CONTRACTOR SHALL PROVIDE WHATEVER EQUIPMENT AND MANPOWER IS NECESSARY, INCLUDING THE USE OF POWER BROOMS TO PREPARE THE PAVEMENT FOR APPLICATION OF THE SURFACE COURSE. EQUIPMENT AND MANPOWER TO CLEAN PAVEMENT SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CONTRACT. PRIME COAT ON THE BINDER COARSE SHALL BE CONSIDERED AS INCIDENTAL TO THE COST OF THE CONTRACT AND SHALL BE APPLIED TO THE BINDER AT A RATE OF 0.5 GALLONS PER SQUARE YARD.

6. CURING AND PROTECTION OF ALL EXPOSED CONCRETE SURFACES SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

7. SIDEWALKS SHALL BE OF THE THICKNESS AND DIMENSIONS AS SHOWN IN THE CONSTRUCTION PLANS. ALL SIDEWALK CONCRETE SHALL DEVELOP A MINIMUM OF 3,500-PSI COMPRESSIVE STRENGTH AT 28 DAYS. CONTRACTION JOINTS SHALL BE SET AT 5' CENTERS, AND 3/4" PRE-MOLDED FIBER EXPANSION JOINTS SET AT 50' CENTERS AND WHERE THE SIDEWALK MEETS THE CURB, A BUILDING, OR ANOTHER SIDEWALK, OR AT THE END OF EACH POUR. ALL SIDEWALKS CONSTRUCTED OVER UTILITY TRENCHES SHALL BE REINFORCED WITH THREE NO. 5 REINFORCING BARS (10' MINIMUM LENGTH). ALL SIDEWALKS CROSSING DRIVEWAYS SHALL BE A MINIMUM OF 6" THICK AND REINFORCED WITH 6X6 #6 WELDED WIRE MESH. ALL SIDEWALKS SHALL BE BROOM FINISHED. IF A MANHOLE FRAME FALLS WITHIN THE LIMITS OF A SIDEWALK, A BOX-OUT SECTION SHALL BE PLACED AROUND THE MANHOLE FRAME WITH A 3/4" EXPANSION JOINT.

8. BACKFILLING ALONG PAVEMENT SHALL BE THE RESPONSIBILITY OF THE EARTHWORK CONTRACTOR.

9. IT SHALL BE THE RESPONSIBILITY OF THE PAVING CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIAL AND DEBRIS, WHICH RESULTS FROM HIS CONSTRUCTION OPERATIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.

10. TESTING OF THE SUB-BASE, BASE COURSE, BINDER COURSE, SURFACE COURSE AND CONCRETE WORK SHALL BE REQUIRED IN ACCORDANCE WITH THE "I.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" CURRENT EDITION, AND IN ACCORDANCE WITH THE SPECIFIC REQUIREMENTS OF THE GOVERNING MUNICIPALITY. A QUALIFIED TESTING FIRM SHALL BE EMPLOYED BY THE OWNER TO PERFORM THE REQUIRED TESTS.

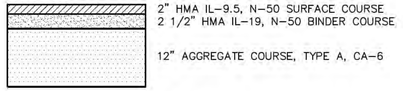
11. PAINTED PAVEMENT MARKINGS AND SYMBOLS, OF THE TYPE AND COLOR AS NOTED ON THE CONSTRUCTION PLANS, SHALL BE INSTALLED IN ACCORDANCE WITH SECTION T-502 OF SAME SPECIFICATIONS.

12. PAINTED PAVEMENT MARKINGS AND SYMBOLS SHALL BE INSTALLED ONLY WHEN THE AMBIENT AIR TEMPERATURE IS 40 DEGREES FAHRENHEIT AND THE FORECAST CALL FOR RISING TEMPERATURES.

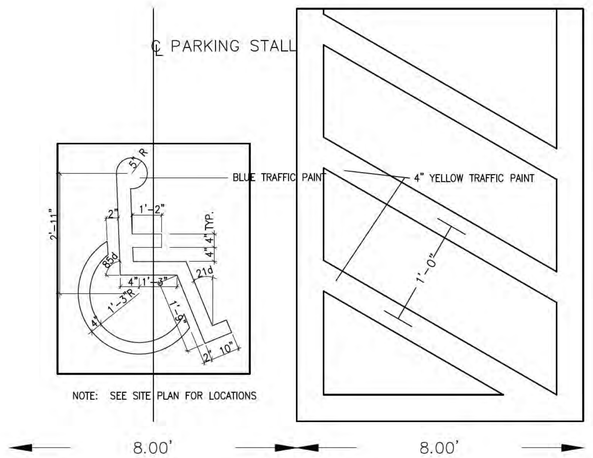
13. ALL EXISTING CURB AND PAVEMENT SHALL BE PROTECT DURING CONSTRUCTION. ANY DAMAGE TO THE CURB OR PAVEMENT WILL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.

14. ANY SIDEWALK THAT IS DAMAGED OR NOT ADA COMPLIANT, INCLUDING SIDEWALK RAMPS, MUST BE REPLACED PRIOR TO FINAL INSPECTION APPROVAL.

ALL DISTURBED AREAS SHALL BE SEEDED WITH IDOT CLASS 1A SEEDMIX

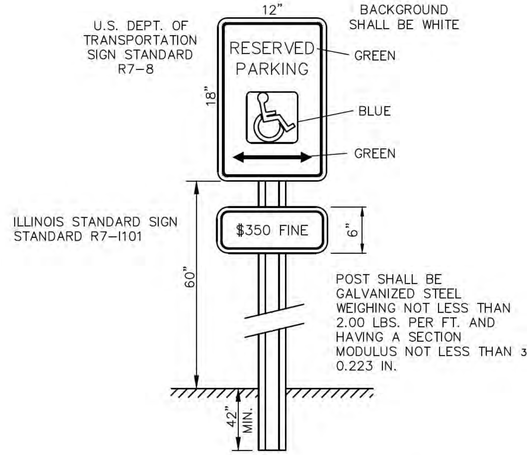


TYPICAL PAVEMENT DETAIL



HANDICAPPED PARKING DETAIL

N.T.S.



LOCATE SIGN AT EACH END OF HANDICAP PARKING AREA, 2 FT. FROM EDGE OF PAVEMENT

HANDICAP PARKING SIGN

TEBRUGGE ENGINEERING
410 E. CHURCH STREET - SUITE A • SANDWICH, IL 60548
PHONE: (815) 786-0195 TEBRUGGEENGINEERING.COM

REVISIONS	NO.	DATE	NOTES

PREPARED FOR:
TMF MANAGEMENT, LLC
12127 GALENA RD-UNIT B, PLANO, IL 60545

TMF MANAGEMENT, LLC PARKING ADDITION

GENERAL NOTES & DETAILS

PROJECT NO.	21 504 01
SCALE:	NTS
DATE:	APRIL 4, 2022

SHEET NO. **4** OF 4 SHEETS

STORMWATER MANAGEMENT
FEE-IN-LIEU DESIGN COMPUTATIONS
FOR TMF PLASTICS SOUTH PARKING LOT ADDITION
LOCATED AT 12127B GALENA ROAD - PLANO, IL IN KENDALL COUNTY
BY
TEBRUGGE ENGINEERING
410 E. CHURCH ST. SUITE A
SANDWICH, IL
REVISED 12.13.21

TMF PLASTICS IS PLANNING TO CONSTRUCT A SMALL PARKING LOT ADDITION ON THE SOUTH PARKING LOT COVERING 2,832 SF. DUE TO SITE CONSTRAINTS ALONG THE SOUTH PROPERTY LINE, WE ARE PROVIDING FEE-IN-LIEU CALCULATIONS FOR THE 2,832 SF OF NEW IMPERVIOUS AREA IN THE SOUTH PARKING LOT.

NEW ASPHALT PAVEMENT = 2,832 SF= 0.065 AC
CN = 96
HYDROGRAPH REPORT No.10 SHOWS A REQUIRED STORAGE VOLUME = 1,285 CF = 0.029 AC-FT.

A 2 FOOT DEEP POND WAS ANALYZED COVERING AN AREA OF APPROXIMATELY 1560 SF

EXCAVATION COST : 2000 CF / 27 = 74 CY X $20/CY = $1,480.
TOPSOIL COST 540 CF / 27 = 20 CY X $20/CY = $ 400
OUTFALL PIPE & INLET = $ 700
SEEDING $120

TOTAL COST FOR FEE IN LIEU = $2,700.00

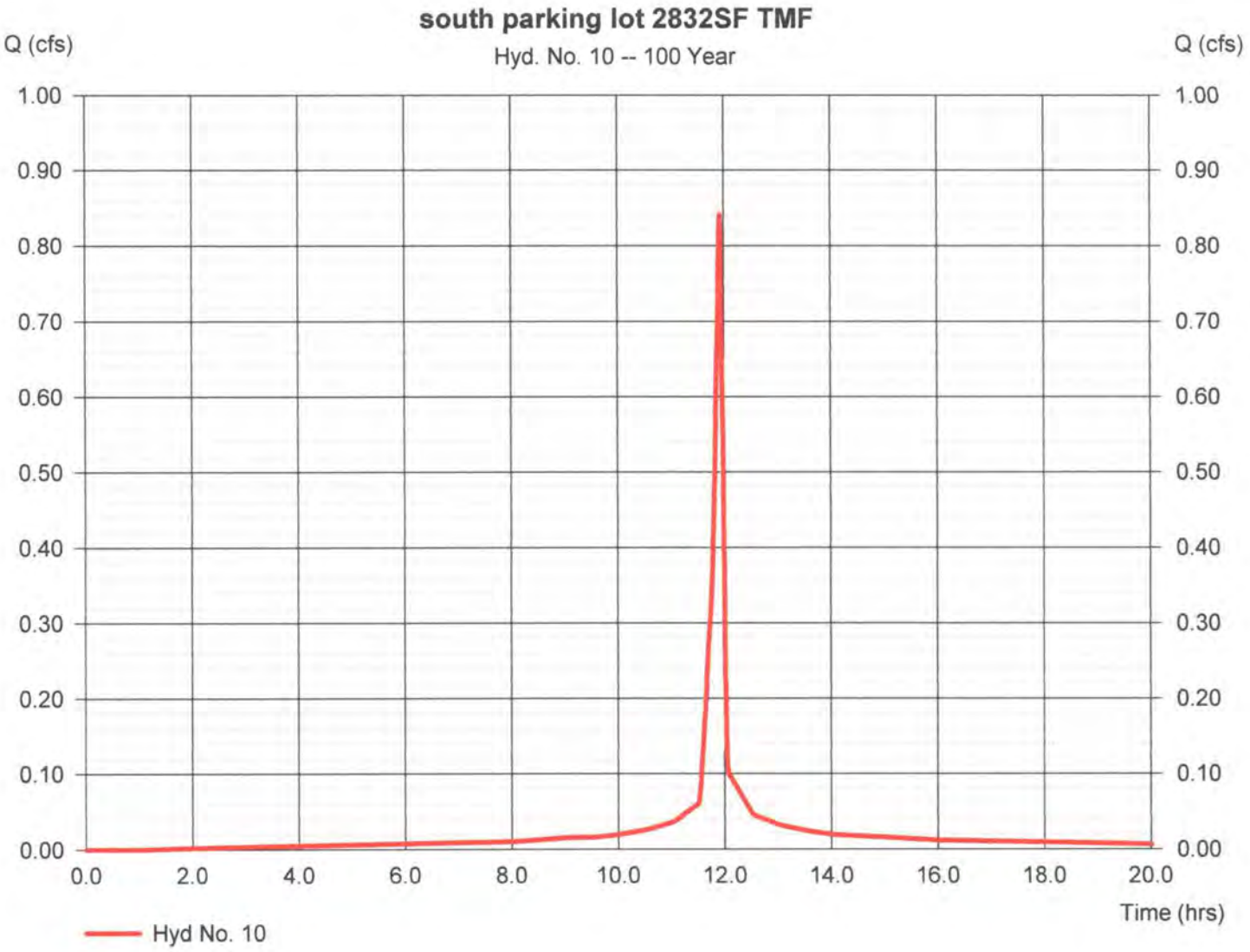
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021 — Wednesday, 03 / 30 / 2022

Hyd. No. 10

south parking lot 2832SF TMF – SOUTH PARKING LOT – FEE IN LIEU

Hydrograph type	= SCS Runoff	Peak discharge	= 0.842 cfs
Storm frequency	= 100 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 1,789 cuft
Drainage area	= 0.065 ac	Curve number	= 96
Basin Slope	= 1.0 %	Hydraulic length	= 80 ft
Tc method	= LAG	Time of conc. (Tc)	= 2.24 min
Total precip.	= 8.57 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

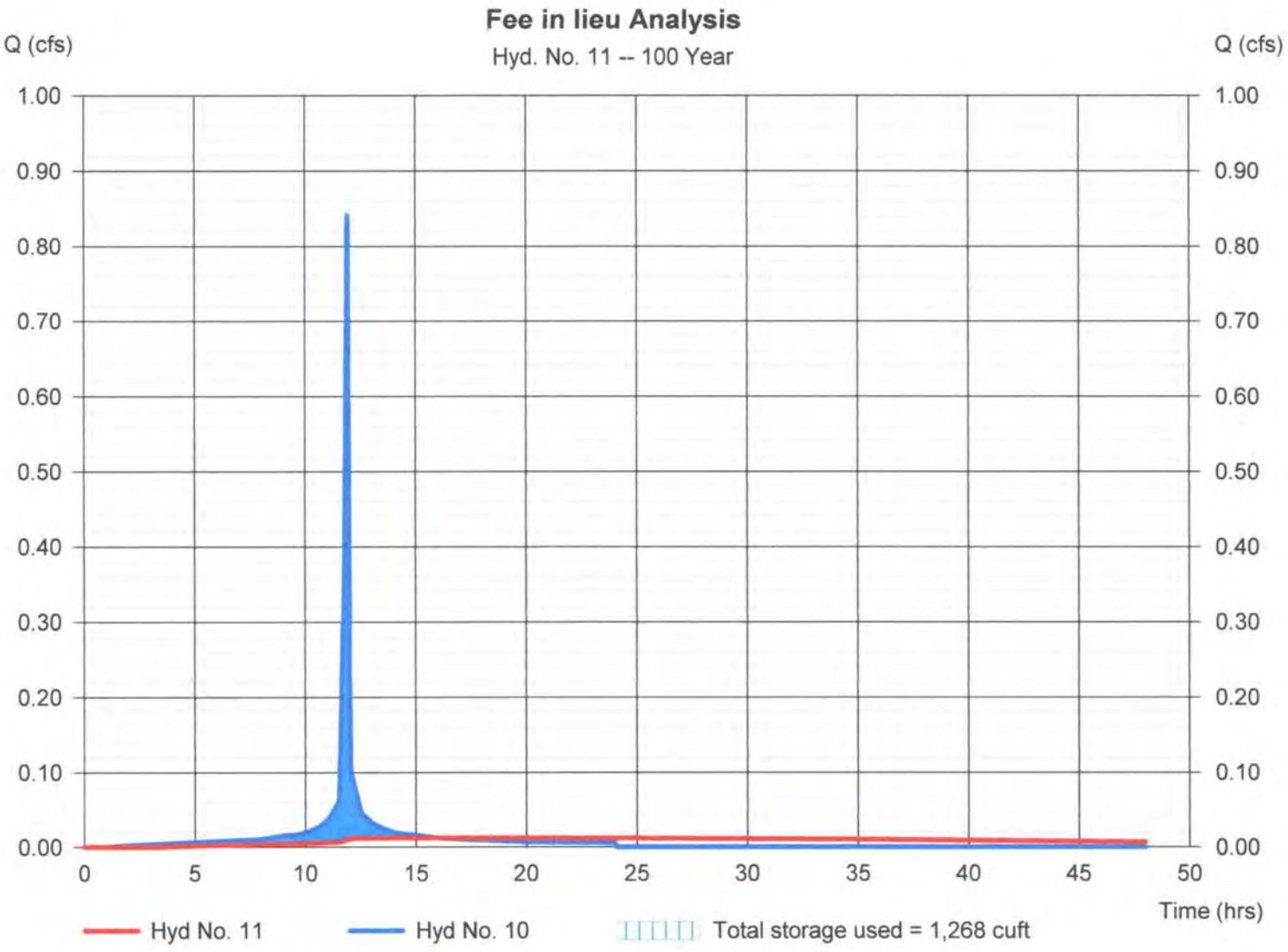
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021 Wednesday, 03 / 30 / 2022

Hyd. No. 11

Fee in lieu Analysis - TMF PLASTICS - SOUTH PARKING LOT

Hydrograph type	= Reservoir	Peak discharge	= 0.012 cfs
Storm frequency	= 100 yrs	Time to peak	= 15.95 hrs
Time interval	= 1 min	Hyd. volume	= 1,485 cuft
Inflow hyd. No.	= 10 - south parking lot 2832SF TMF	Max. Elevation	= 675.48 ft
Reservoir name	= fee in lieu pond	Max. Storage	= 1,268 cuft

Storage Indication method used.



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021 — Wednesday, 03 / 30 / 2022

Hyd. No. 11

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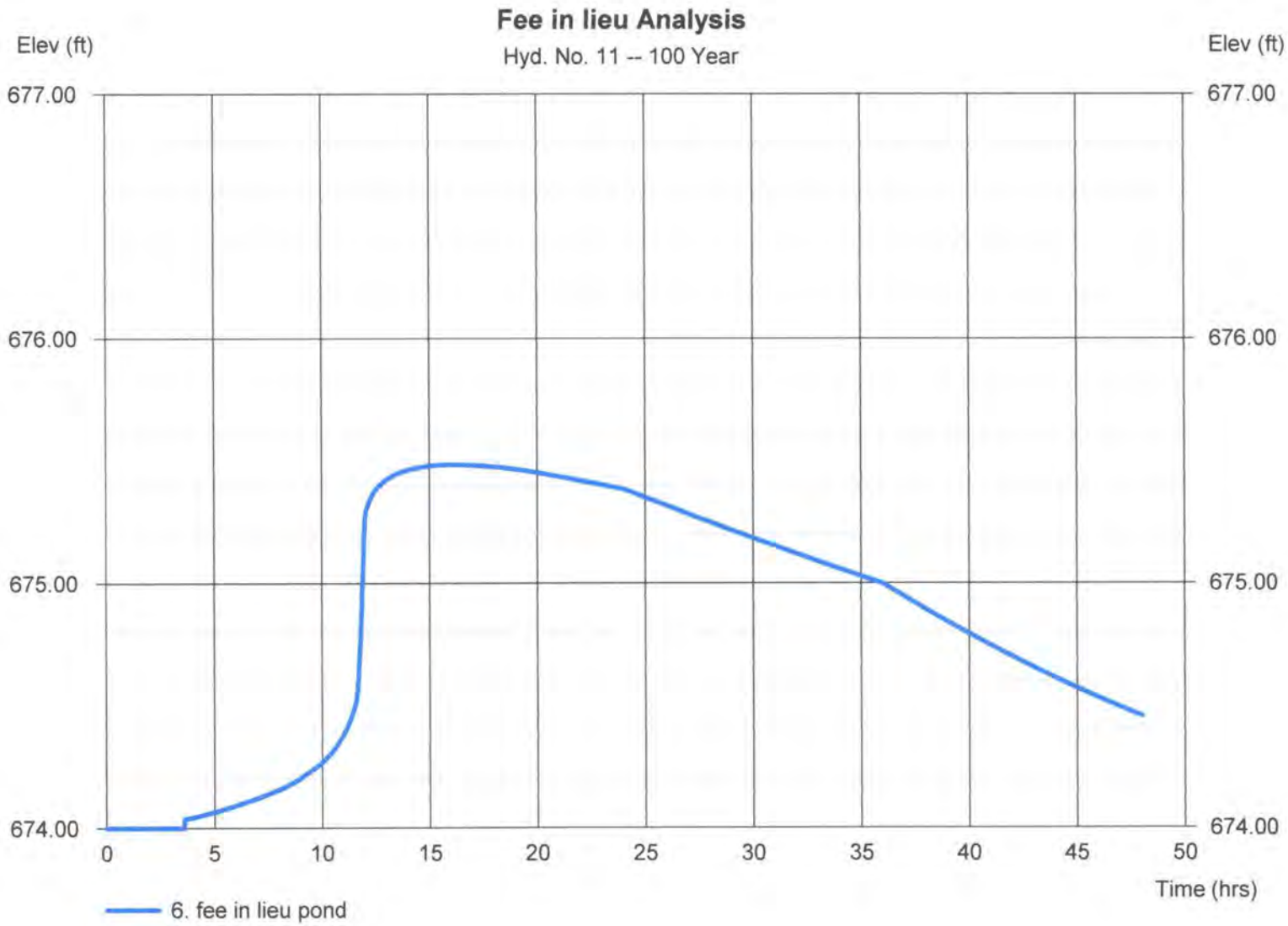


Pond Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021 Wednesday, 03 / 30 / 2022

Pond No. 6 - fee in lieu pond

Pond Data

Contours -User-defined contour areas. Conic method used for volume calculation. Begining Elevation = 674.00 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	674.00	436	0	0
1.00	675.00	935	670	670
2.00	676.00	1,568	1,238	1,908

Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	= 0.63	0.00	0.00	0.00
Span (in)	= 0.63	0.00	0.00	0.00
No. Barrels	= 1	0	0	0
Invert El. (ft)	= 674.00	0.00	0.00	0.00
Length (ft)	= 0.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 0.00	0.00	0.00	0.00
Crest El. (ft)	= 0.00	0.00	0.00	0.00
Weir Coeff.	= 3.33	3.33	3.33	3.33
Weir Type	= ---	---	---	---
Multi-Stage	= No	No	No	No

Exfil.(in/hr) = 0.000 (by Wet area)

TW Elev. (ft) = 0.00

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).

Stage / Storage / Discharge Table

Stage ft	Storage cuft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PrfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	User cfs	Total cfs
0.00	0	674.00	0.00	---	---	---	---	---	---	---	---	---	0.000
0.10	67	674.10	0.00 ic	---	---	---	---	---	---	---	---	---	0.003
0.20	134	674.20	0.00 ic	---	---	---	---	---	---	---	---	---	0.004
0.30	201	674.30	0.01 ic	---	---	---	---	---	---	---	---	---	0.005
0.40	268	674.40	0.01 ic	---	---	---	---	---	---	---	---	---	0.006
0.50	335	674.50	0.01 ic	---	---	---	---	---	---	---	---	---	0.007
0.60	402	674.60	0.01 ic	---	---	---	---	---	---	---	---	---	0.008
0.70	469	674.70	0.01 ic	---	---	---	---	---	---	---	---	---	0.008
0.80	536	674.80	0.01 ic	---	---	---	---	---	---	---	---	---	0.009
0.90	603	674.90	0.01 ic	---	---	---	---	---	---	---	---	---	0.010
1.00	670	675.00	0.01 ic	---	---	---	---	---	---	---	---	---	0.010
1.10	794	675.10	0.01 ic	---	---	---	---	---	---	---	---	---	0.011
1.20	917	675.20	0.01 ic	---	---	---	---	---	---	---	---	---	0.011
1.30	1,041	675.30	0.01 ic	---	---	---	---	---	---	---	---	---	0.012
1.40	1,165	675.40	0.01 ic	---	---	---	---	---	---	---	---	---	0.012
1.50	1,289	675.50	0.01 ic	---	---	---	---	---	---	---	---	---	0.012
1.60	1,412	675.60	0.01 ic	---	---	---	---	---	---	---	---	---	0.013
1.70	1,536	675.70	0.01 ic	---	---	---	---	---	---	---	---	---	0.013
1.80	1,660	675.80	0.01 ic	---	---	---	---	---	---	---	---	---	0.014
1.90	1,784	675.90	0.01 ic	---	---	---	---	---	---	---	---	---	0.014
2.00	1,908	676.00	0.01 ic	---	---	---	---	---	---	---	---	---	0.014

WBK engineering

May 6, 2022

Mr. Matt Asselmeier
Kendall County Planning, Building, & Zoning
111 West Fox Street
Yorkville, IL 60560-1498

Subject: 12127B Galena Road TMF Management South Parking Lot Addition
(WBK Project 19-102.AK)

Dear Mr. Asselmeier:

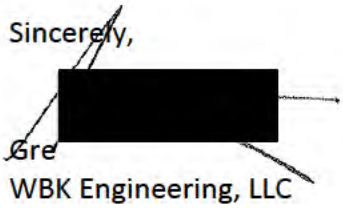
We have received the following information for the subject project:

- Stormwater Management Fee-In-Lieu Computations for TMF Plastics South Parking Lot Addition prepared by Tebrugge Engineering dated December 13, 2021 and received April 29, 2022.
- Engineering Plans for TMF Management Building Addition prepared by Tebrugge Engineering dated April 26, 2022 and received April 29, 2022.

We find the fee-in-lieu calculations and engineering plans to be acceptable. Contact our office prior to construction of the parking area to verify erosion control measures.

The applicant's design professionals are responsible for performing and checking all design computations, dimensions, details, and specifications in accordance with all applicable codes and regulations, and obtaining all permits necessary to complete this work. In no way does this review relieve applicant's design professionals of their duties to comply with the law and any applicable codes and regulations, nor does it relieve the Contractors in any way from their sole responsibility for the quality and workmanship of the work and for strict compliance with the permitted plans and specifications. If you have any questions or comments, please contact us at (630) 443-7755.

Sincerely,



Gre
WBK Engineering, LLC

WBK Engineering, LLC
WBKEngineering.com
Part of the Mno-Bmadsen Family

St. Charles Office
116 West Main Street, Suite 201
St. Charles, IL 60174
630.443.7755

DEPARTMENT OF PLANNING, BUILDING & ZONING
111 West Fox Street • Room 204
Yorkville, IL • 60560
(630) 553-4141 Fax (630) 553-4179

December 8, 2021

Tim Raymond
TMF Plastic Solutions, LLC
12127 Galena Road Unit B
Plano, IL 60545

RE: *Site Plan Approval for Building Addition*
12127 Galena Road, Unit B, Plano, Little Rock Township (PIN # 01-01-200-002)

Dear Mr. Raymond:

At their meeting on December 7, 2021, the Kendall County ZPAC approved the site plan at the above referenced property for the construction of an approximately twenty thousand six hundred thirty (20,630) square foot addition to the north and east of the existing approximately forty-five thousand six hundred ninety-two (45,692) square foot building located on Parcel One of the subject property. The proposal also calls for a stormwater pond north of the proposed addition. The addition will consist of two (2) new loading docks on the on the southeast side of the addition. This approval is conditional on the following:

1. The site plan approved in 2008 shall be amended to incorporate the subject site plan.

2. The site shall be developed substantially in conformance with the attached site plan, civil plan, photometric plan, and elevations. The metal siding shall be gray to match the existing building.

3. The November 23, 2021, letter from Tebrugge Engineering will be included as part of the site plan.

4. The site shall be developed in accordance with all applicable federal, state, and local laws related to site development and the type of use proposed for the site, including, but not limited to, securing the applicable building and stormwater permits.

Should you have any questions or concerns about this matter, please feel free to me at (630) 553-4139 or masselmeier@co.kendall.il.us.

Kind Regards,

[redacted]

Matthew H. Asselmeier, AICP, CFM
Senior Planner


PIN: 01-01-200-013
OWNER: KONICEK FAMILY LTD.
PARTNERSHIP PER DOC. 0000277
ZONING: A1 - AGRICULTURAL
PIN: 01-01-200-024
OWNER: WADE R JOYNER &
TRACEY FISHER-JOYNER PER
DOC. 9605497
ZONING: A1-BP -
AGRICULTURAL
FIP 3/4"
(698.70')
720'
480'
363'
PROPOSED BUILDING
ADDITION
FF = 671.81
PROPOSED BUILDING
ADDITION 20,630 SF
FF = 671.81
EXISTING COMMERCIAL
BUILDING
45,692 SF
FF = 671.81
PARCEL ONE
PIN: 01-01-200-002
OWNER: TMF MANAGEMENT
ZONING: M1 - LIMITED
MANUFACTURING
Asphalt Surface
1-Story Corrugated
Metal Building
35,720 SF
#12127 B Galena Rd.
Asphalt
Parking Lot
Concrete Water Feature
W/Flagstone Border
Pump
Housing
Access
1-Story Frame
Building
NO PAVEMENT
1-Story Corrugated
Metal Building
19,256 SF
PIN: 01-01-200-003
OWNER: OLD SECOND
NATIONAL BANK OF
AURORA AS TRUSTEE
UNDER TRUST #5801 PER
DOC. 9500700
ZONING: M1 - LIMITED
MANUFACTURING
PIN: 01-01-200-015
OWNER: BRYAN W & DIANE M
APPEL PER DOC. 9710644
ZONING: A1 - AGRICULTURAL
PIN: 01-01-200-022
OWNER: ROBERT E DAVIDSON JR.
PER DOC. 9710645
ZONING: A1 - AGRICULTURAL
495.26'
1200'
SCALE IN FEET

SITE DATA:

TOTAL ACRES - 6.0 AC

EXISTING PARKING - 39 STALLS
2 HANDICAP

NEW PARKING - 0 STALLS

BUILDING COVERAGE:

EXISTING BLDGS - 83,227 S.F.
PROPOSED BLDGS - 20,630 S.F.
TOTAL BLDGS - 103,857 S.F.

TOTAL LOT - 261,359 S.F.
SITE COVERAGE - 40%

TEBRUGGE ENGINEERING
410 E. CHURCH STREET - SUITE A • SANDWICH, IL 60548
PHONE: (815) 786-0195 TEBRUGGEENGINEERING.COM

REVISIONS	NO.	DATE	NOTES
	1	11.23.21	KENDALL COUNTY REVIEW EMAIL 11.23.21

PREPARED FOR:
TMF PLASTIC SOLUTIONS, LLC
12127 GALENA RD-UNIT B, PLANO, IL 60545

TMF PLASTIC BUILDING ADDITION

FINAL PLAN

PROJECT NO. 21 504 01
SCALE: 1" = 30'
DATE: NOV 15, 2021
SHEET NO. 1 OF 1 SHEET

ENGINEERING PLANS
FOR
TMF PLASTIC BUILDING ADDITION

SECTION 1, TOWNSHIP 37 NORTH , RANGE 6 EAST
12127B GALENA RD
PLANO, IL 60545
KENDALL COUNTY
NOVEMBER, 2021

LEGEND

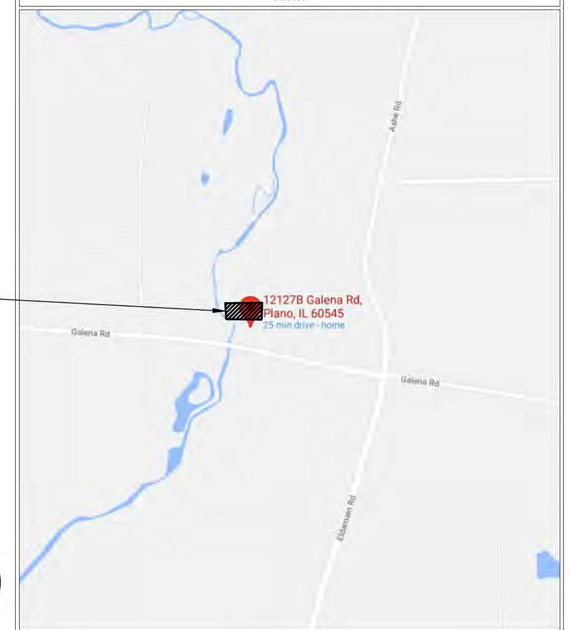
	PROPERTY BOUNDARY
600	EXISTING CONTOUR LINE
STM	EXISTING STORM SEWER
SAN	EXISTING SANITARY SEWER LINE
W	EXISTING WATERMAIN
UE	EXISTING UNDERGROUND ELECTRIC
OHE	EXISTING OVERHEAD ELECTRIC
GAS	EXISTING GAS SERVICE
T	EXISTING TELEPHONE
673	PROPOSED CONTOUR LINE
W	PROPOSED WATERMAIN
STM	PROPOSED STORM SEWER
SAN	PROPOSED SANITARY SEWER LINE
GREASE	PROPOSED GREASE SERVICE LINE
VENT	PROPOSED VENT LINE
F	EXISTING FENCELINE
SF	PROPOSED SILT FENCE
x 686.00	EXISTING SPOT SHOT
x 686.00	PROPOSED SPOT GRADE

	EXIST	PROP	
WATER:			B-BOX
			HYDRANT
			VALVE
			VALVE VAULT
STORM:			INLET-CURB
			INLET OR MANHOLE
			FLARED END SECTION
SANITARY:			CLEANOUT
			MANHOLE

R.O.W. MONUMENT	UTILITY POLE
PROPERTY PIN	GUY WIRE LOC.
P.K. NAIL	UTIL CABINET
CHISELED MARK	UTIL PEDESTAL
BENCHMARK	LIGHT POLE
HUB & TACK	TRAFFIC SIGNAL
SOIL BORING	ELECTRIC VAULT
OVERLAND RELIEF	GAS VALVE
FLOW DIRECTION	

INDEX TO SHEETS

LOCATION MAP
N.T.S.



Know what's **below.**
Call before you dig.

Contractor and or sub-contractors shall verify locations of all underground utilities prior to digging. Contact J.U.L.I.E. (Joint Utility Locating for Excavators) at 1-800-892-0123 or dial 811.

UTILITY STATEMENT

THE UTILITIES SHOWN HAVE BEEN LOCATED FROM VISIBLE FIELD EVIDENCE AND EXISTING DRAWINGS, MAPS AND RECORDS SUPPLIED TO SURVEYOR. THE SURVEYOR MAKES NO GUARANTEES THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM AVAILABLE INFORMATION. THE SURVEYOR HAS PHYSICALLY LOCATED VISIBLE STRUCTURES; HOWEVER, HE HAS NOT PHYSICALLY LOCATED THE UNDERGROUND LINES.

PROFESSIONAL ENGINEER'S CERTIFICATION
STATE OF ILLINOIS, COUNTY OF KENDALL

I JOHN J. TEBRUGGE, A LICENSED PROFESSIONAL ENGINEER OF ILLINOIS, HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY PERSONAL DIRECTION BASED ON AVAILABLE DOCUMENTS AND FIELD MEASUREMENTS FOR THE EXCLUSIVE USE OF THE CLIENT NOTED HEREON.

GIVEN UNDER MY HAND & SEAL THIS 23RD DAY OF NOVEMBER, 2021

JOHN J. TEBRUGGE
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

[redacted]
ILLINOIS REGISTERED PROFESSIONAL ENGINEER
NO. 0[redacted] EXPIRES NOV. 30, 2021

BENCHMARKS:

1. NATIONAL GEODETIC SURVEY MONUMENT PID - MF0523
   LOCATED 320 FEET EAST OF THE PLANO TRAIN STATION, 21 FEET NORTH OF THE CENTERLINE OF THE NORTH TRACK, AT AN ABANDONED SIGNAL BRIDGE FOUNDATION
   STANDARD DISK IN CONCRETE STAMPED "Y 49 1934"

   NAVD 88 DATUM
   ELEVATION = 649.12

2. ON-SITE BENCHMARK NORTH EAST CORNER OF ELECTRIC TRANSFORMER PAD (LOCATION ON PLAN)

   NAVD 88 DATUM
   ELEVATION = 671.88

PLANS PREPARED FOR:

TMF PLASTIC SOLUTIONS, LLC
12127 GALENA ROAD - UNIT B
PLANO, IL 60545
PHONE: (630) 552-7575

CIVIL ENGINEER:

TEBRUGGE ENGINEERING
410 E CHURCH ST - SUITE A
SANDWICH, ILLINOIS 60548
(815) 786-0195

INFO@TEBRUGGEENGINEERING.COM
WWW.TEBRUGGEENGINEERING.COM

REVISIONS

NO.	DATE	NOTES
1	11.23.21	KENDALL COUNTY REVIEW EMAIL 11.23.21

ZONING: A1-BP - AGRICULTURAL

363'

PROPOSED 370 L.F. SILT FENCE

FIP 3/4"

670.54

OUTFALL STRUCTURE & PIPE TO BE REMOVED

36.30'

EXISTING BUILDING (TO REMAIN) FF = 670.56

48.55'

48.50'

36.40'

STORM MANHOLE TO BE REMOVED

STORM MANHOLE TO BE REMOVED

FES TO BE REMOVED

ADS PIPE TO BE REMOVED

EXISTING ASPHALT

STORM INLET TO BE REMOVED

FES & GRAVEL TO BE REMOVED

PROPOSED 200 L.F. SILT FENCE

ASPHALT TO BE REMOVED 11,107 S.F.

X688.40

216.00'

EXISTING COMMERCIAL BUILDING 45,692 SF FF = 671.81

Gravel Surface (TO BE REMOVED)

88.32'

140 L.F. PIPE TO BE REMOVED

10.00'

7.08'

10.00'

10.00'

PARCEL ONE

261,359 S.F.
6.000 ACRES,
MORE OR LESS

212.00'

PIN: 01-01-200-002
OWNER: TMF MANAGEMENT
ZONING: M1 - LIMITED MANUFACTURING

PIN: 01-01-200-015

720'

ON SITE BENCHMARK ELEV = 671.88

Asphalt Surface

EXISTING ASPHALT

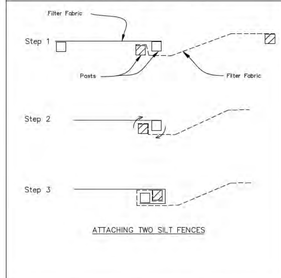
720'

216.00'

280.45'

Asphalt Surface

SILT FENCE – SPLICING TWO FENCES



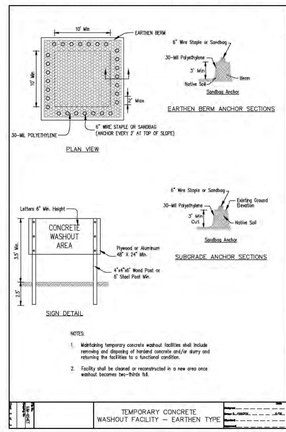
ATTACHING TWO SILT FENCES

1. Place the end post of the second fence inside the end post of the first fence.
2. Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
3. Cut the fabric near the bottom of the stakes to accommodate the 6" flap.
4. Drive both posts a minimum of 18 inches into the ground and bury the flap.
5. Compact backfill (particularly at splices) completely to prevent stormwater piping.

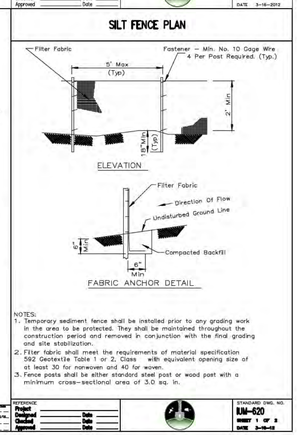
REFERENCE
Project
Designed — Date
Drawn — Date
Checked — Date
Approved — Date

STANDARD DWG. NO. ILM-620(W)
SHEET 1 OF 1
DATE 3-16-2012

CONCRETE WASH-OUT NOTE:
CONCRETE WASHOUT SHOULD BE CONTAINED AT ALL TIMES. WASHOUT MATERIAL SHOULD NOT BE ALLOWED TO ENTER WATER BODIES, STORM SEWERS OR LEACH INTO THE SOIL UNDER ANY CIRCUMSTANCES. ANY WASTE SHOULD BE DISPOSED OF PROPERLY AND THE LOCATION OF THE WASHOUT SHOULD BE DESIGNATED WITH PROPER SIGNAGE. FAILURE TO COMPLY COULD RESULT IN AN INCIDENCE OF NONCOMPLIANCE (ION).



SILT FENCE PLAN



NOTES:
1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class with equivalent opening size of at least 30 for nonwoven and 40 for woven.
3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

REFERENCE
Project
Designed — Date
Drawn — Date
Checked — Date
Approved — Date

STANDARD DWG. NO. ILM-620
SHEET 2 OF 2
DATE 3-16-12

−20 0 20 40
SCALE IN FEET

TEBRUGGE ENGINEERING
410 E. CHURCH STREET - SUITE A • SANDWICH, IL 60548
PHONE: (815) 786-0195 TEBRUGGEENGINEERING.COM

REVISIONS	NO.	DATE	NOTES
	1	11.23.21	KENDALL COUNTY REVIEW EMAIL 11.23.21

PREPARED FOR:
TMF PLASTIC SOLUTIONS, LLC
12127 GALENA RD-UNIT B, PLANO, IL 60545

TMF PLASTIC BUILDING ADDITION

EXISTING CONDITIONS & DEMOLITION PLAN

PROJECT NO. 21 504 01
SCALE: 1" = 20'
DATE: NOV 15, 2021

SHEET NO. 2 OF 5 SHEETS

TEBRUGGE ENGINEERING
410 E. CHURCH STREET - SUITE A • SANDWICH, IL 60548
PHONE: (815) 786-0195 TEBRUGGEENGINEERING.COM

REVISIONS	NO.	DATE	NOTES
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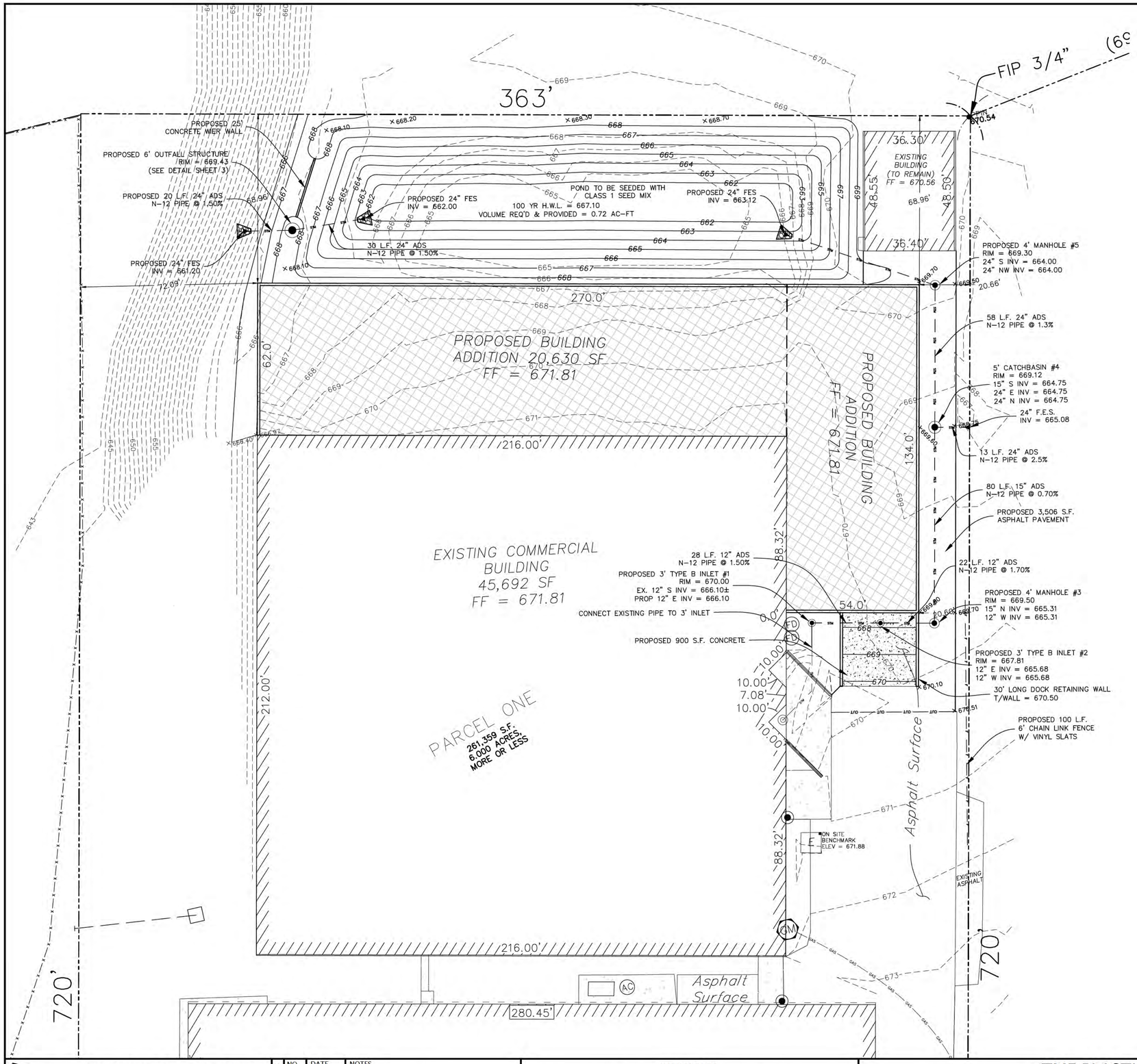
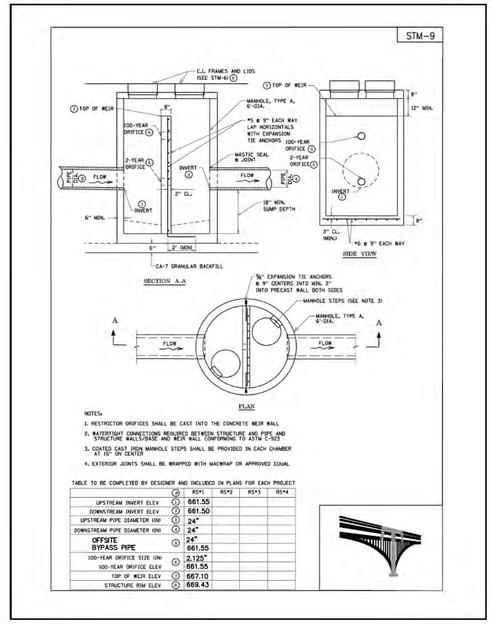
PREPARED FOR:
TMF PLASTIC SOLUTIONS, LLC
12127 GALENA RD-UNIT B, PLANO, IL 60545

TMF PLASTIC BUILDING ADDITION
OVERALL SITE PLAN

PROJECT NO.	21 504 01
SCALE:	1" = 20'
DATE:	NOV 15, 2021

SHEET NO. 3 OF 5 SHEETS

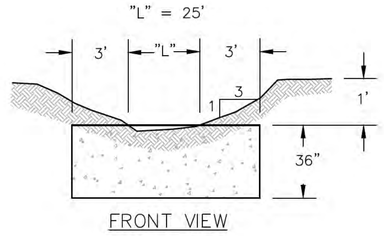




BUILDING COVERAGE:

EXISTING BLDGS - 83,227 S.F.
PROPOSED BLDGS - 20,630 S.F.
TOTAL BLDGS - 103,857 S.F.

TOTAL LOT - 261,359 S.F.
SITE COVERAGE - 40%



NOTE:
"L" IS SIZED TO PASS 100 YR EVENT WITH ONE FOOT DEPTH OF WATER

CONCRETE OVERFLOW DETAIL
N.T.S.

SCALE IN FEET

TEBRUGGE ENGINEERING
410 E. CHURCH STREET - SUITE A • SANDWICH, IL 60548
PHONE: (815) 786-0195 TEBRUGGEENGINEERING.COM

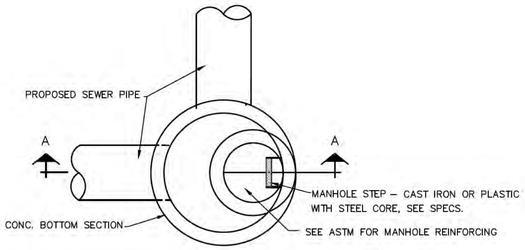
REVISIONS	NO.	DATE	NOTES
	1	11.23.21	KENDALL COUNTY REVIEW EMAIL 11.23.21

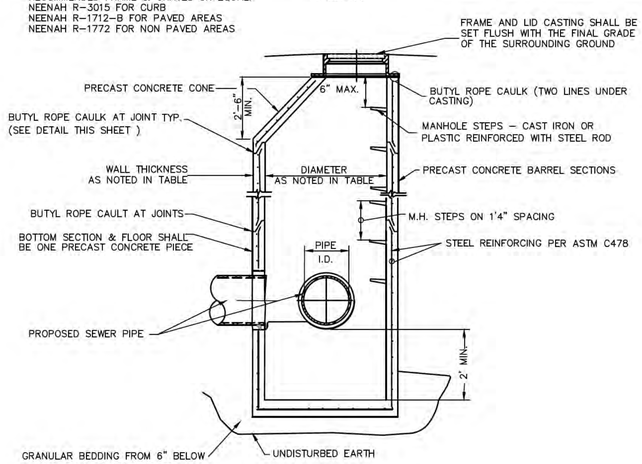
PREPARED FOR:
TMF PLASTIC SOLUTIONS, LLC
12127 GALENA RD-UNIT B, PLANO, IL 60545

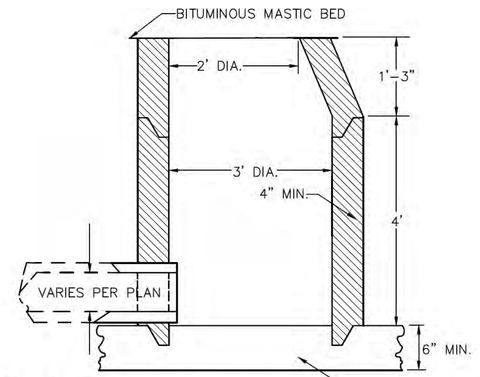
TMF PLASTIC BUILDING ADDITION
CIVIL SITE PLAN

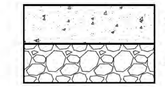
PROJECT NO. 21 504 01
SCALE: 1" = 20'
DATE: NOV 15, 2021

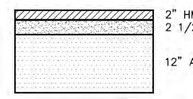
SHEET NO. 4 OF 5 SHEETS

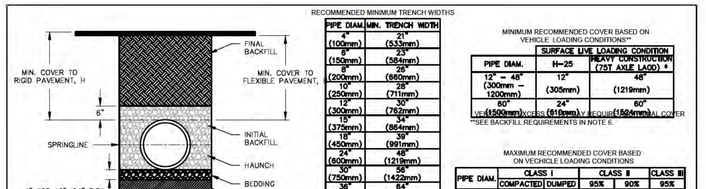












GENERAL CONDITIONS

1. ALL EARTHWORK, ROADWAY WORK, DRAINAGE WORK OR STORM SEWER WORK SHALL BE PERFORMED UTILIZING MATERIALS AND METHODS IN STRICT ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION, AS WELL AS THE STANDARD DETAIL SHEETS ATTACHED TO THESE PLANS. ALL MUNICIPAL, COUNTY, STATE AND FEDERAL REQUIREMENTS AND STANDARDS SHALL BE STRICTLY ADHERED TO IN WORK PERFORMED UNDER THIS CONTRACT.

2. ALL SANITARY SEWER AND WATER MAIN WORK SHALL BE PERFORMED USING METHODS AND MATERIALS IN STRICT ACCORDANCE WITH THE LATEST EDITION OF "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION, AS WELL AS THE STANDARD DETAIL SHEETS ATTACHED TO THESE PLANS. ALL MUNICIPAL, COUNTY, STATE AND FEDERAL REQUIREMENTS AND STANDARDS SHALL BE STRICTLY ADHERED TO IN WORK PERFORMED UNDER THIS CONTRACT.

3. ANY SPECIFICATIONS WHICH ARE SUPPLIED ALONG WITH THE PLANS SHALL TAKE PRECEDENCE IN THE CASE OF A CONFLICT WITH THE STANDARD SPECIFICATIONS NOTED IN ITEMS NO. 1 AND 2 ABOVE. THE ABOVE STANDARD SPECIFICATIONS & THE CONSTRUCTION PLANS ARE TO BE CONSIDERED AS PART OF THE CONTRACT DOCUMENTS. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE TO BE CONSIDERED A PART OF THE CONTRACT.

4. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT SAME TO THE ENGINEER BEFORE DOING ANY WORK, OTHERWISE THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.

5. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED AGAINST ALL DEFECTS IN MATERIALS AND WORKMANSHIP OF WHATEVER NATURE BY THE CONTRACTOR AND HIS SURETY FOR A PERIOD OF 12 MONTHS FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE GOVERNING MUNICIPALITY, OTHER APPLICABLE GOVERNMENTAL AGENCIES, AND THE OWNER.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FOR CONSTRUCTION ALONG OR ACROSS EXISTING STREETS OR HIGHWAYS. HE SHALL MAKE ARRANGEMENTS FOR THE PROPER BRACING, SHORING AND OTHER REQUIRED PROTECTION OF ALL ROADWAYS BEFORE CONSTRUCTION BEGINS, ALONG WITH ADEQUATE TRAFFIC CONTROL MEASURES. HE SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE STREETS OR ROADWAYS AND ASSOCIATED STRUCTURES AND SHALL MAKE REPAIRS AS NECESSARY TO THE SATISFACTION OF THE ENGINEER, AT NO ADDITIONAL COST TO THE OWNER.

7. THE UTILITY LOCATIONS, AND THE DEPTHS SHOWN ON THESE PLANS ARE APPROXIMATE ONLY, AND SHALL BE VERIFIED BY THE CONTRACTOR WITH ALL AFFECTED UTILITY COMPANIES PRIOR TO INITIATING CONSTRUCTION OPERATIONS. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY FOR THE ADEQUACY, SUFFICIENCY OR EXACTNESS OF THESE UTILITY REPRESENTATIONS.

8. PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL CONTACT THE OFFICE OF J.U.L.I.E. AT 1-800-892-0123 FOR EXACT FIELD LOCATION OF ALL UNDERGROUND UTILITIES IN THE PROXIMITY OF, AND ON, THE PROJECT SITE; IF THERE ARE ANY UTILITIES WHICH ARE NOT MEMBERS OF THE J.U.L.I.E. SYSTEM, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THIS AND MAKE ARRANGEMENTS TO HAVE THESE UTILITIES FIELD LOCATED.

9. EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR RELOCATING THESE FACILITIES AT HIS EXPENSE TO ACCOMMODATE THE NEW CONSTRUCTION.

10. ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL BE CONNECTED TO THE PROPOSED STORM SEWER OR EXTENDED TO OUTLET INTO A PROPOSED DRAINAGE WAY. IF THIS CANNOT BE ACCOMPLISHED, THEN IT SHALL BE REPAIRED WITH NEW PIPE OF SIMILAR SIZE AND MATERIAL TO THE ORIGINAL LINE AND PUT IN ACCEPTABLE OPERATIONAL CONDITION. A RECORD OF THE LOCATION OF ALL FIELD TILE FOR ONSITE DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE CONTRACTOR AND TURNED OVER TO THE ENGINEER UPON COMPLETION OF THE PROJECT. THE COST OF THIS WORK SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

11. IT SHALL BE THE RESPONSIBILITY OF EACH RESPECTIVE CONTRACTOR TO REMOVE FROM THIS SITE ANY AND ALL MATERIALS AND DEBRIS WHICH RESULT FROM HIS CONSTRUCTION OPERATIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.

12. THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OF FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.

13. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND FEDERAL SAFETY REGULATIONS AS OUTLINED IN THE LATEST REVISIONS OF THE FEDERAL CONSTRUCTION SAFETY STANDARDS (SERIES 1926) AND WITH APPLICABLE PROVISIONS AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS OF THE WILLIAMS STELGER OCCUPATIONAL HEALTH STATE SAFETY ACT OF 1970(REVISED). THE CONTRACTOR, ENGINEERS, AND OWNER SHALL EACH BE RESPONSIBLE FOR HIS OWN RESPECTIVE AGENTS AND EMPLOYEES.

14. THE CONTRACTOR SHALL INDEMNIFY THE OWNER, THE ENGINEER, AND ALL GOVERNING AUTHORITIES, THEIR AGENTS SUCCESSORS AND ASSIGNS FROM ANY AND ALL LIABILITY WITH RESPECT TO THE CONSTRUCTION, INSTALLATION AND TESTING OF THE WORK REQUIRED ON THIS PROJECT. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM THE WORK OF THIS CONTRACT IN A MANNER WHICH STRICTLY COMPLIES WITH ANY AND ALL PERTINENT LOCAL, STATE OR NATIONAL CONSTRUCTION AND SAFETY CODES; THE ENGINEER, OWNER, AND GOVERNING AUTHORITIES ARE NOT RESPONSIBLE FOR ENSURING COMPLIANCE BY THE CONTRACTOR WITH SAID CODES AND ASSUME NO LIABILITY FOR ACCIDENTS, INJURIES, OR DEATHS, OR CLAIMS RELATING THERETO WHICH MAY RESULT FROM LACK OF ADHERENCE TO SAID CODES.

UNDERGROUND UTILITIES

1. ALL UTILITY TRENCHES BENEATH PROPOSED OR EXISTING UTILITIES, PROPOSED OR EXISTING PAVEMENT, DRIVEWAYS, SIDEWALKS AND FOR A DISTANCE OF TWO FEET ON EITHER SIDE OF SAME, AND/OR WHEREVER ELSE SHOWN ON THE CONSTRUCTION PLANS SHALL BE BACKFILLED WITH SELECT GRANULAR BACKFILL (CA-6 OR CA-7) AND THOROUGHLY COMPACTED IN ACCORDANCE WITH THE EARTHWORK SPECIFICATIONS.

2. UNLESS OTHERWISE INDICATED ON THE PLANS, STORM SEWER PIPE SHALL BE REINFORCED CONCRETE CULVERT PIPE OF THE CLASS AS INDICATED ON THE PLANS, AND CONFORMING TO ASTM C-76. JOINTS SHALL TYPICALLY BE A "TROWEL APPLIED" BITUMINOUS MASTIC COMPOUND IN ACCORDANCE WITH ASTM C-76 (OR C-14 AS MAY BE APPLICABLE OR RUBBER "O"-RING GASKET JOINTS CONFORMING TO ASTM C-443). LOCATIONS WHERE THE STORM SEWER CROSSES WATERMAINS AN "O"-RING JOINT IN ACCORDANCE WITH ASTM C-361 SHALL BE USED.

3. STORM SEWER MANHOLES SHALL BE PRECAST STRUCTURES, WITH THE DIAMETER DEPENDENT ON THE PIPE SIZE AND WITH APPROPRIATE FRAME AND LIDS (SEE CONSTRUCTION STANDARDS). LIDS SHALL BE IMPRINTED "STORM SEWER". ALL FLARED END SECTIONS SHALL HAVE A FRAME & GRATE INSTALLED.

4. THESE FRAME AND GRATES FOR STORM STRUCTURES SHALL BE USED UNLESS OTHERWISE INDICATED ON THE PLAN SET. USE NEENAH R-1712 OPEN LID (OR EQUAL) IN PAVEMENT AREAS, USE NEENAH R-1772-B OPEN OR CLOSED LID (OR EQUAL) IN GRASS AREAS, USE NEENAH R-3015 (OR EQUAL) FOR B6.12 CURB AREAS, AND NEENAH R-3509 (OR EQUAL) FOR DEPRESSED CURB AREAS.

5. STRUCTURES FOR SANITARY AND STORM SEWERS AND VALVE VAULTS FOR WATER SHALL BE IN ACCORDANCE WITH THESE IMPROVEMENT PLANS AND THE APPLICABLE STANDARD SPECIFICATIONS. WHERE GRANULAR TRENCH BACKFILL IS REQUIRED AROUND THESE STRUCTURES THE COST SHALL BE CONSIDERED AS INCIDENTAL AND SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE STRUCTURE.

6. ALL STORM SEWERS AND WATERMAINS SHALL HAVE COMPACTED CA-7 GRANULAR BEDDING, A MINIMUM OF 4" BELOW THE BOTTOM OF THE PIPE FOR THE FULL LENGTH. BEDDING SHALL EXTEND TO THE SPRING LINE OF THE PIPE. COST FOR THE BEDDING SHALL BE INCLUDED WITH THE UNIT PRICE BID FOR THE PIPE.

7. THE UNDERGROUND CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING ANY EXCAVATION FOR THE INSTALLATION OF THE SEWER OR WATER SYSTEMS. ANY DEWATERING ENCOUNTERED SHALL BE INCIDENTAL TO THE RESPECTIVE UNDERGROUND UTILITY.

8. ALL STRUCTURES SHALL HAVE A MAXIMUM OF 8" OF ADJUSTING RINGS, UNLESS OTHERWISE NOTED.

9. ALL TOP FRAMES FOR STORM AND VALVE VAULT COVERS AND B-BOXES ARE TO BE ADJUSTED TO MEET FINAL FINISH GRADE UPON COMPLETION OF FINISHED GRADING AND FINAL INSPECTIONS. THIS ADJUSTMENT IS TO BE MADE BY THE UNDERGROUND CONTRACTOR AND THE COST IS TO BE INCIDENTAL. THE UNDERGROUND CONTRACTOR SHALL INSURE THAT ALL ROAD AND PAVEMENT INLETS OR STRUCTURES ARE AT FINISHED GRADE. ANY ADJUSTMENTS NECESSITATED BY THE CURB OR PAVING CONTRACTOR TO ACHIEVE FINAL RIM GRADE, RESULTING IN AN EXTRA FOR SAID ADJUSTMENTS, WILL BE CHARGED TO THE UNDERGROUND CONTRACTOR.

10. ALL FLOOR DRAINS AND FLOOR DRAIN SUMP PUMPS SHALL DISCHARGE INTO THE SANITARY SEWER.

11. ALL DOWNSPOUTS, FOOTING DRAINS AND SUBSURFACE STORM WATERS SHALL DISCHARGE INTO THE STORM SEWER OR ONTO THE GROUND AND BE DIRECTED TOWARDS A STORM SEWER STRUCTURE.

12. ANY ANTICIPATED COST OF SHEETING SHALL BE REFLECTED IN THE CONTRACT AMOUNTS. NO ADDITIONAL COST WILL BE ALLOWED FOR SHEETING OR BRACING.

13. THE CONTRACTOR SHALL INSTALL A 2"x4"x8' POST ADJACENT TO THE TERMINUS OF THE SANITARY SERVICE, WATERMAIN SERVICE, SANITARY MANHOLES, STORM STRUCTURES, AND WATER VAULTS. THE POST SHALL EXTEND A MINIMUM OF 4 FT. ABOVE THE GROUND. SAID POST SHALL BE PAINTED AS FOLLOWS: SANITARY-GREEN, WATER-BLUE, AND STORM-RED.

14. IT SHALL BE THE RESPONSIBILITY OF THE UNDERGROUND CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIALS AND DEBRIS WHICH RESULT FROM HIS CONSTRUCTION OPERATIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.

EARTHWORK

1. ALL EARTHWORK OPERATIONS SHALL BE IN ACCORDANCE WITH SECTION 200 OF THE I.D.O.T. SPECIFICATIONS.

2. THE CONTRACTOR SHALL PROTECT ALL PROPERTY PINS AND SURVEY MONUMENTS AND SHALL RESTORE ANY WHICH ARE DISTURBED BY HIS OPERATIONS AT NO ADDITIONAL COST TO THE CONTRACT.

3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL MATERIAL QUANTITIES AND APPRISE HIMSELF OF ALL SITE CONDITIONS. THE CONTRACT PRICE SUBMITTED BY THE CONTRACTOR SHALL BE CONSIDERED AS LUMP SUM FOR THE COMPLETE PROJECT. NO CLAIMS FOR EXTRA WORK WILL BE RECOGNIZED UNLESS ORDERED IN WRITING BY THE OWNER.

4. PRIOR TO ONSET OF MASS GRADING OPERATIONS THE EARTHWORK CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SOIL EROSION CONTROL SPECIFICATIONS. THE INITIAL ESTABLISHMENT OF EROSION CONTROL PROCEDURES AND THE PLACEMENT OF SILT FENCING, ETC. TO PROTECT ADJACENT PROPERTY SHALL OCCUR BEFORE MASS GRADING BEGINS, AND IN ACCORDANCE WITH THE SOIL EROSION CONTROL CONSTRUCTION SCHEDULE.

5. THE GRADING OPERATIONS ARE TO BE CLOSELY SUPERVISED AND INSPECTED, PARTICULARLY DURING THE REMOVAL OF UNSUITABLE MATERIAL AND THE CONSTRUCTION OF EMBANKMENTS OR BUILDING PADS, BY THE SOILS ENGINEER OR HIS REPRESENTATIVE. ALL TESTING, INSPECTION AND SUPERVISION OF SOIL QUALITY, UNSUITABLE REMOVAL AND ITS REPLACEMENT AND OTHER SOILS RELATED OPERATIONS SHALL BE ENTIRELY THE RESPONSIBILITY OF THE SOILS ENGINEER.

6. THE GRADING AND CONSTRUCTION OF THE SITE IMPROVEMENTS SHALL NOT CAUSE PONDING OF STORM WATER. ALL AREAS ADJACENT TO THESE IMPROVEMENTS SHALL BE GRADED TO ALLOW POSITIVE DRAINAGE.

7. THE PROPOSED GRADING ELEVATIONS SHOWN ON THE PLANS ARE FINISH GRADE. A MINIMUM OF SIX INCHES (6") OF TOPSOIL IS TO BE PLACED BEFORE FINISH GRADE ELEVATIONS ARE ACHIEVED.

8. THE SELECTED STRUCTURAL FILL MATERIAL SHALL BE PLACED IN LEVEL UNIFORM LAYERS SO THAT THE COMPACTED THICKNESS IS APPROXIMATELY SIX INCHES (6"); IF COMPACTION EQUIPMENT DEMONSTRATES THE ABILITY TO COMPACT A GREATER THICKNESS, THEN A GREATER THICKNESS MAY BE SPECIFIED. EACH LAYER SHALL BE THOROUGHLY MIXED DURING SPREADING TO INSURE UNIFORMITY.

9. EMBANKMENT MATERIAL WITHIN ROADWAY, PARKING LOT, AND OTHER STRUCTURAL CLAY FILL AREAS SHALL BE COMPACTED TO A MINIMUM OF NINETY-FIVE PERCENT (95%) OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM SPECIFICATION D-1557 (MODIFIED PROCTOR METHOD), OR TO SUCH OTHER DENSITY AS MAY BE DETERMINED APPROPRIATE BY THE SOILS ENGINEER. EMBANKMENT MATERIAL FOR BUILDING PADS SHALL BE COMPACTED TO A MINIMUM OF NINETY-FIVE (95%) OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM DESIGNATION D-1557 (MODIFIED PROCTOR METHOD) OR TO SUCH OTHER DENSITY AS MAY BE DETERMINED APPROPRIATE BY THE SOIL ENGINEER.

10. EMBANKMENT MATERIAL (RANDOM FILL) WITHIN NON-STRUCTURAL FILL AREAS SHALL BE COMPACTED TO A MINIMUM OF NINETY PERCENT (90%) OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM SPECIFICATION D-157 (MODIFIED PROCTOR METHOD).

11. THE SUB GRADE FOR PROPOSED STREET AND PAVEMENT AREAS SHALL BE PROOF-ROLLED BY THE CONTRACTOR AND ANY UNSTABLE AREAS ENCOUNTERED SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE SOILS ENGINEER.

12. SOIL BORING REPORTS, IF AVAILABLE, ARE SOLELY FOR THE INFORMATION AND GUIDANCE OF THE CONTRACTORS. THE OWNER AND ENGINEER MAKE NO REPRESENTATION OR WARRANTY REGARDING THE INFORMATION CONTAINED IN THE BORING LOGS. THE CONTRACTOR SHALL MAKE HIS OWN INVESTIGATIONS AND SHALL PLAN HIS WORK ACCORDINGLY. ARRANGEMENTS TO ENTER THE PROPERTY DURING THE BIDDING PHASE MAY BE MADE UPON REQUEST OF THE OWNER. THERE WILL BE NO ADDITIONAL PAYMENT FOR EXPENSES INCURRED BY THE CONTRACTOR RESULTING FROM ADVERSE SOIL OR GROUND WATER CONDITIONS.

13. IT SHALL BE THE RESPONSIBILITY OF THE EXCAVATION CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIALS AND DEBRIS WHICH RESULT FROM HIS CONSTRUCTION OPERATIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.

PAVING & WALKS

1. WORK UNDER THIS SECTION SHALL INCLUDE FINAL SUBGRADE SHAPING AND PREPARATION: FORMING, JOINTING, PLACEMENT OF ROADWAY AND PAVEMENT BASE COURSE MATERIALS AND SUBSEQUENT BINDER AND/OR SURFACE COURSES; PLACEMENT, FINISHING AND CURING OF CONCRETE; FINAL CLEAN-UP; AND ALL RELATED WORK.

2. ALL PAVING AND SIDEWALK WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS (I.D.O.T.) AND PER LOCAL REGULATIONS.

3. SUBGRADE FOR PROPOSED PAVEMENT SHALL BE FINISHED BY THE EXCAVATION CONTRACTOR TO WITHIN 0.1 FOOT, PLUS OR MINUS, OF THE PLAN ELEVATION. THE PAVING CONTRACTOR SHALL SATISFY HIMSELF THAT THE SUBGRADE HAS BEEN PROPERLY PREPARED AND THAT THE FINISH TOP SUBGRADE ELEVATION HAS BEEN GRADED WITHIN TOLERANCES ALLOWED IN THESE SPECIFICATIONS. UNLESS THE PAVING CONTRACTOR ADVISES THE OWNER AND ENGINEER IN WRITING PRIOR TO FINE GRADING FOR BASE COURSE CONSTRUCTION, IT IS UNDERSTOOD THAT HE HAS APPROVED AND ACCEPTS THE RESPONSIBILITY FOR THE SUBGRADE. PRIOR TO PLACEMENT OF PAVEMENT BASE MATERIALS, THE PAVING CONTRACTOR SHALL FINE GRADE THE SUBGRADE SO AS TO INSURE THE PROPER THICKNESS OF PAVEMENT COURSES. NO CLAIMS FOR EXCESS BASE MATERIALS DUE TO IMPROPER SUBGRADE PREPARATION WILL BE HONORED.

4. THE PROPOSED PAVEMENT SHALL CONSIST OF THE SUB-BASE COURSE, BITUMINOUS AGGREGATE BASE COURSE, BITUMINOUS BINDER COURSE. AND BITUMINOUS SURFACE COURSE, OF THE THICKNESS AND MATERIALS AS SPECIFIED ON THE CONSTRUCTION PLANS, PRIME COAT SHALL BE APPLIED TO THE SUB-BASE COURSE AT A RATE OF 0.5 GALLONS PER SQUARE YARD. UNLESS SHOWN AS A BID ITEM, PRIME COAT SHALL BE CONSIDERED AS INCIDENTAL TO THE COST OF THE CONTRACT. ALL PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "I.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," CURRENT EDITION.

5. AFTER THE INSTALLATION OF THE BASE COURSE, ALL TRAFFIC SHALL BE KEPT OFF THE BASE UNTIL THE BINDER COURSE IS LAID. AFTER INSTALLATION OF THE BINDER COURSE AND UPON INSPECTION AND APPROVAL BY GOVERNING AUTHORITY, THE PAVEMENT SHALL BE CLEANED, PRIMED AND THE SURFACE COURSE LAID. ALL DAMAGED AREAS IN THE BINDER, BASE OR CURB AND GUTTER SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER PRIOR TO LAYING THE SURFACE COURSE. THE PAVING CONTRACTOR SHALL PROVIDE WHATEVER EQUIPMENT AND MANPOWER IS NECESSARY, INCLUDING THE USE OF POWER BROOMS TO PREPARE THE PAVEMENT FOR APPLICATION OF THE SURFACE COURSE. EQUIPMENT AND MANPOWER TO CLEAN PAVEMENT SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CONTRACT. PRIME COAT ON THE BINDER COARSE SHALL BE CONSIDERED AS INCIDENTAL TO THE COST OF THE CONTRACT AND SHALL BE APPLIED TO THE BINDER AT A RATE OF 0.5 GALLONS PER SQUARE YARD.

6. CURING AND PROTECTION OF ALL EXPOSED CONCRETE SURFACES SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

7. SIDEWALKS SHALL BE OF THE THICKNESS AND DIMENSIONS AS SHOWN IN THE CONSTRUCTION PLANS. ALL SIDEWALK CONCRETE SHALL DEVELOP A MINIMUM OF 3,500-PSI COMPRESSIVE STRENGTH AT 28 DAYS. CONTRACTION JOINTS SHALL BE SET AT 5' CENTERS, AND 3/4" PRE-MOLDED FIBER EXPANSION JOINTS SET AT 50' CENTERS AND WHERE THE SIDEWALK MEETS THE CURB, A BUILDING, OR ANOTHER SIDEWALK, OR AT THE END OF EACH POUR. ALL SIDEWALKS CONSTRUCTED OVER UTILITY TRENCHES SHALL BE REINFORCED WITH THREE NO. 5 REINFORCING BARS (10' MINIMUM LENGTH). ALL SIDEWALKS CROSSING DRIVEWAYS SHALL BE A MINIMUM OF 6" THICK AND REINFORCED WITH 6X6 #6 WELDED WIRE MESH. ALL SIDEWALKS SHALL BE BROOM FINISHED. IF A MANHOLE FRAME FALLS WITHIN THE LIMITS OF A SIDEWALK, A BOX-OUT SECTION SHALL BE PLACED AROUND THE MANHOLE FRAME WITH A 3/4" EXPANSION JOINT.

8. BACKFILLING ALONG PAVEMENT SHALL BE THE RESPONSIBILITY OF THE EARTHWORK CONTRACTOR.

9. IT SHALL BE THE RESPONSIBILITY OF THE PAVING CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIAL AND DEBRIS, WHICH RESULTS FROM HIS CONSTRUCTION OPERATIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.

10. TESTING OF THE SUB-BASE, BASE COURSE, BINDER COURSE, SURFACE COURSE AND CONCRETE WORK SHALL BE REQUIRED IN ACCORDANCE WITH THE "I.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" CURRENT EDITION, AND IN ACCORDANCE WITH THE SPECIFIC REQUIREMENTS OF THE GOVERNING MUNICIPALITY. A QUALIFIED TESTING FIRM SHALL BE EMPLOYED BY THE OWNER TO PERFORM THE REQUIRED TESTS.

11. PAINTED PAVEMENT MARKINGS AND SYMBOLS, OF THE TYPE AND COLOR AS NOTED ON THE CONSTRUCTION PLANS, SHALL BE INSTALLED IN ACCORDANCE WITH SECTION T-502 OF SAME SPECIFICATIONS.

12. PAINTED PAVEMENT MARKINGS AND SYMBOLS SHALL BE INSTALLED ONLY WHEN THE AMBIENT AIR TEMPERATURE IS 40 DEGREES FAHRENHEIT AND THE FORECAST CALL FOR RISING TEMPERATURES.

13. ALL EXISTING CURB AND PAVEMENT SHALL BE PROTECT DURING CONSTRUCTION. ANY DAMAGE TO THE CURB OR PAVEMENT WILL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.

14. ANY SIDEWALK THAT IS DAMAGED OR NOT ADA COMPLIANT, INCLUDING SIDEWALK RAMPS, MUST BE REPLACED PRIOR TO FINAL INSPECTION APPROVAL.

ALL DISTURBED AREAS
SHALL BE SEEDED WITH
IDOT CLASS 1A SEEDMIX

MANHOLE TYPE	INSIDE DIA.	MIN. WALL THICKNESS
A-4	4'-0"	5"
A-5	5'-0"	6"
A-6	6'-0"	7"

CATCHBASIN DETAIL

N.T.S.

NOTE: INLET SHALL BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE RINGS.

3' DIA. TYPE B INLET

N.T.S.

TYPICAL CONCRETE PAVEMENT DETAIL

TYPICAL PAVEMENT DETAIL

RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
4" (100mm)	21" (533mm)
6" (150mm)	23" (584mm)
8" (200mm)	26" (660mm)
10" (250mm)	28" (711mm)
12" (300mm)	30" (762mm)
15" (375mm)	34" (864mm)
18" (450mm)	39" (991mm)
24" (600mm)	48" (1219mm)
30" (750mm)	56" (1422mm)
36" (900mm)	64" (1626mm)
42" (1050mm)	72" (1829mm)
48" (1200mm)	80" (2032mm)
60" (1500mm)	96" (2438mm)

MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS**

PIPE DIAM.	SURFACE LIVE LOADING CONDITION H-25	SURFACE LIVE LOADING CONDITION HEAVY CONSTRUCTION (75T AXLE LAOD) *
12" – 48" (300mm – 1200mm)	12" (305mm)	48" (1219mm)
60" (1500mm)	24" (610mm)	60" (1524mm)

*VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER
**SEE BACKFILL REQUIREMENTS IN NOTE 6.

MAXIMUM RECOMMENDED COVER BASED ON VECHICLE LOADING CONDITIONS

PIPE DIAM.	CLASS I COMPACTED	CLASS I DUMPED	CLASS II 95%	CLASS II 90%	CLASS III 95%
4" (100mm)	37 (11.3m)	18 (5.5m)	25 (7.6m)	18 (5.5m)	18 (5.5m)
6" (150mm)	44 (13.4m)	20 (6.1m)	29 (8.8m)	20 (6.1m)	21 (6.4m)
8" (200mm)	32 (9.8m)	15 (4.6m)	22 (6.7m)	15 (4.6m)	16 (4.9m)
10" (250mm)	38 (11.6m)	18 (5.5m)	26 (7.9m)	18 (5.5m)	18 (5.5m)
12" (300mm)	35 (10.7m)	17 (5.2m)	24 (7.3m)	17 (5.2m)	17 (5.2m)
15" (375mm)	38 (11.6m)	17 (5.2m)	25 (7.6m)	17 (5.2m)	18 (5.5m)
18" (450mm)	36 (11.0m)	17 (5.2m)	24 (7.3m)	17 (5.2m)	17 (5.2m)
24" (600mm)	28 (8.5m)	13 (4.0m)	20 (6.1m)	13 (4.0m)	14 (4.3m)
30" (750mm)	28 (8.5m)	13 (4.0m)	20 (6.1m)	13 (4.0m)	14 (4.3m)
36" (900mm)	26 (7.9m)	12 (3.7m)	18 (5.5m)	13 (4.0m)	13 (4.0m)
42" (1050mm)	23 (7.0m)	11 (3.4m)	16 (4.9m)	11 (3.4m)	11 (3.4m)
48" (1200mm)	25 (7.6m)	11 (3.4m)	17 (5.2m)	11 (3.4m)	12 (3.7m)
60" (1500mm)	25 (7.6m)	11 (3.4m)	17 (5.2m)	11 (3.4m)	12 (3.7m)

FILL HEIGHT TABLE GENERATED USING AASHTO SECTION 12, LOAD RESISTANCE FACTOR DESIGN (LRFD) PROCEDURE WITH THE FOLLOWING ASSUMPTIONS:
NO HYDROSTATIC PRESSURE,
UNIT WEIGHT OF SOIL (Ys) = 120 PCF

NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION

2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.

3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.

4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-1500mm).

5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.

6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT. FOR TRAFFIC APPLICATIONS WITH LESS THAN FOUR FEET OF COVER, EMBEDMENT OF THE PIPE SHALL BE USING ONLY A CLASS I OR CLASS II BACKFILL.

REV.	DESCRIPTION	BY	MM/DD/YY	CHK'D
	COVER HEIGHTS TO MATCH TN 2.01	AGC	09/28/17	CMF

TRENCH INSTALLATION DETAIL (N-12 PER AASHTO)
DRAWING NUMBER: STD-101
ADVANCED DRAINAGE SYSTEMS, INC.
4640 TRUEMAN BLVD
HILLIARD, OHIO 43026
DRAWN BY: TJR
DATE: 12/29/16
SCALE: NTS
SHEET 1 OF 1

URBAN STANDARD SPECIFICATIONS for PUBLIC IMPROVEMENT MANUAL

GENERAL NOTES

IT IS INTENDED THAT THE DESIGN FOR THE "PIPE APRON GUARD" DETAILED HEREON PROVIDE A TREATMENT FOR THE EXPOSED END OF A PIPE CULVERT, SUCH THAT AN OUT-OF-CONTROL VEHICLE COULD PASS OVER THE END OF THE CULVERT WITHOUT UNDUE LOSS OF CONTROL OR DAMAGE TO THE VEHICLE
STEEL BARS USED IN CONSTRUCTION OF THE GUARD MAY BE SMOOTH OR DEFORMED STEEL.
WELDING OF STEEL PARTS SHALL BE AS SHOWN AND SUBJECT TO THE APPROVAL OF THE ENGINEER. THE GUARD SHALL BE GIVEN TWO COATS OF PAINT, THE FIRST COAT BEING AN APPROVED PRIMER AND THE SECOND FOLIAGE GREEN.
IN LIEU OF PAINTING AS SPECIFIED, THE COMPLETED APRON GUARD MAY BE HOT-DIPPED GALVANIZED.
ALTERNATE DETAILS FOR DESIGN OF APRON GUARD MAY BE SUBMITTED TO THE JURISDICTIONAL ENGINEER FOR APPROVAL.

SPECIAL NOTE

WHEN DETAIL PROJECT PLANS REQUIRE PIPE APRON GUARDS OF SIZES OTHER THAN THOSE SHOWN HEREON, THE DESIGN FOR SUCH APRON GUARDS SHALL BE SIMILAR TO THOSE INDICATED, CONFORMING TO MINIMUM BAR SPACING AND GERERAL REQUIREMENTS SHOWN.

TABLE A
NO. 6 TOP BARS

12" PIPE APRON	5 EA.
15" PIPE APRON	5 EA.
18" PIPE APRON	6 EA.
24" PIPE APRON	8 EA.
30" PIPE APRON	10 EA.
36" PIPE APRON	12 EA.

REV.	DATE	BY
DATE: 01-01-98		

FLARED END SECTION APRON GUARD
FIGURE: 4020.3
SHEET 1 OF 1

TEBRUGGE ENGINEERING
410 E. CHURCH STREET - SUITE A • SANDWICH, IL 60548
PHONE: (815) 786-0195 TEBRUGGEENGINEERING.COM

REVISIONS

NO.	DATE	NOTES
1	11.23.21	KENDALL COUNTY REVIEW EMAIL 11.23.21

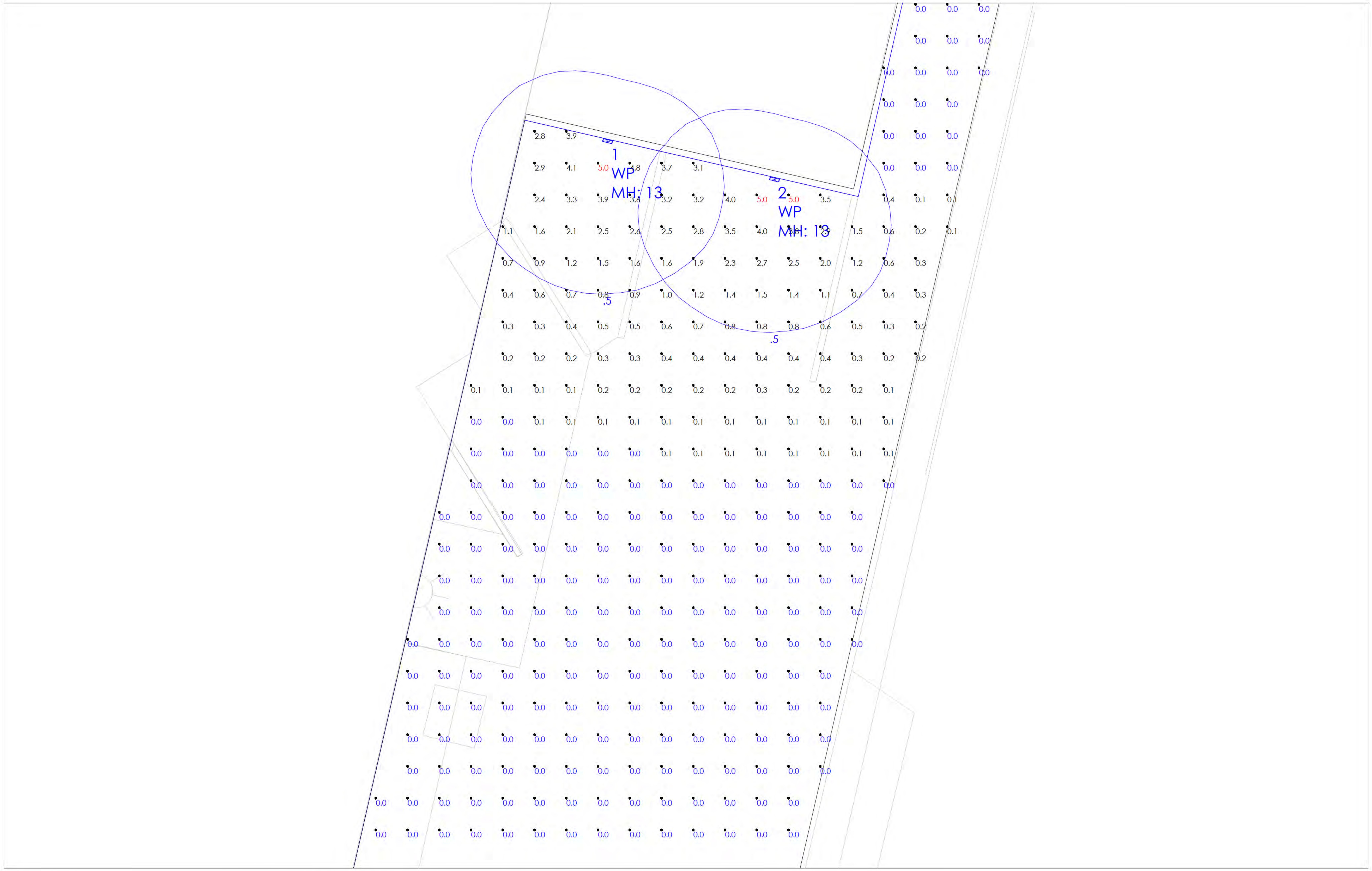
PREPARED FOR:
TMF PLASTIC SOLUTIONS, LLC
12127 GALENA RD-UNIT B, PLANO, IL 60545

TMF PLASTIC BUILDING ADDITION

GENERAL NOTES & DETAILS

PROJECT NO. 21 504 01
SCALE: NTS
DATE: NOV 15, 2021

SHEET NO.
5
OF 5 SHEETS



Luminaire Schedule - Part numbers are provided by the manufacturer and are only intended to be used as a reference to output and optics used.										
Symbol	Qty	Tag	Arrangement	Lum. Watts	Arr. Watts	Lum. Lumens	Arr. Lum. Lumens	LLF	Manufacturer	Description
	2	WP	Single	29.1	29.1	3060	3060	0.900	HUBBELL OUTDOOR LIGHTING	SG1-30-4K7-FT

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
SITE_Planar	Illuminance	Fc	0.46	5.0	0.0	N.A.	N.A.

Luminaire Location Summary				
LumNo	Label	Mtg Ht	Orient	Tilt
1	SG1-30-4K7-FT	13	256	0
2	SG1-30-4K7-FT	13	256	0

PG-Enlighten is neither licensed nor insured to determine code compliance. Code compliance review by others.

enlighten

Revisions

#	Date	Comments

Drawn By: Joeli Collins
Drawn By: joeli.collins@pg-enlighten.com
Date:11/18/2021
Scale: 1" = 8'

Project Name:
TMF PLASTIC SOLUTIONS

Location:
12127 GALENA RD UNIT B, PLANO, IL

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

SLING Series

SLENDER WALLPACK

tradeSELECT

FEATURES

- Two sizes for a variety of applications
- Ranges from 21W to 80W with up to 8000 lumens
- SG1 Series replaces from 100W-150W HID; SG2 Series replaces from 150W-250W HID
- Comfort lens available as an option or accessory provides glare control and enhanced uniformity
- Knuckle and trunnion accessory mounting kits available for flood applications
- IP65 and certified to UL 1598 for use in wet locations up to 40ºC ambient
- DLC (DesignLights Consortium Qualified - see www.designlights.org

*3000K and warmer CCTs only

RELATED PRODUCTS

LNC Litepak | LNC2 Litepak | LNC3 Litepak | LNC4 Litepak | GeoPak | GeoPak2

SPECIFICATIONS

HOUSING

- Rugged die-cast aluminum housing with corrosion resistant powder coat finish
- Heating dissipating fins provide superior thermal performance extending the life of the electronic components
- Impact resistant tempered glass offers zero uplight
- Comfort lens available as an option or accessory to reduce glare (7-10% lumen reduction) and provide better uniformity

OPTICS

- 3000K, 4000K and 5000K CCT nominal with 70 CRI
- Smaller SG1 housing has 2 LEDs, larger SG2 housing has 3 LEDs

INSTALLATION

- Side hinge allows for easy installation and wiring
- Side movement avoids damage to the lens and helps prevent injury common in drop down hinge designs
- Mounts to 4" junction box and includes a gasket to help seal electrical connections
- Four 1/2" threaded conduits hubs for surface conduit provided

ELECTRICAL

- 120-277V, 50/60Hz electronic drivers
- 347V and 480V available in large SG2 housing
- 10KA surge protection included

OPTIONS/CONTROLS

- Button photocontrol for dusk to dawn energy savings. Stock versions include 120V-277V PC with a cover which provides a choice to engage photocontrol or not. PC is installed in top hub
- Occupancy sensor available for on/off and dimming control in larger SG2 housing
- SiteSync™ wireless lighting control delivers flexible control strategies for reducing power consumption and minimizing maintenance costs while delivering the right light levels with a simple and affordable wireless solution. See ordering information or visit www.hubbelllighting.com/sitesync for more details
- Battery backup options available in larger SG2 housing rated for either 0˚ C or -30˚ C. Performance exceeds NEC requirement providing 1 fc minimum over 10'x10' at 11' mounting height

CERTIFICATIONS

- DesignLights Consortium® (DLC) qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org
- Listed to UL1598 for use in wet location, listed for -40ºC to 40ºC applications
- IDA approved with zero uplight for 3000K and warmer CCTs
- IP65

WARRANTY

- 5 year limited warranty
- See HLI Standard Warranty for additional information

KEY DATA	
Lumen Range	2263-8079
Wattage Range	21-80
Efficacy Range (LPW)	101-113
Fixture Projected Life (Hours)	L70>50K
Weights lbs. (kg)	4.3-11 (2.0-5.0)

HUBBELL Outdoor Lighting

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ORDERING GUIDE

Example: SG1-20-3K7-FT-UNV-DBT-PCU-CS

CATALOG #

ORDERING INFORMATION

Housing		CCT/CRI		Distribution		Voltage		Color/Finish		Control Options		Options	
SG1-10	Size 1, 10W	**3K7**	3000K, 70 CRI	**FT**	Fwd Throw	**UNV**	120V-277V	**BLT**	Black Matte Textured	**PCU**	Universal Button Photocontrol (120-277V)	**CS**	Comfort Lens
SG1-20	Size 1, 20W	**4K7**	4000K, 70 CRI			**120**	120V	**BLS**	Black Gloss Smooth	**SCP**[1,2,3]	Occupancy Sensor Programmable (Dim)	**E**[1,2]	Battery 0°C
SG1-30	Size 1, 30W	**5K7**	5000K, 70 CRI			**277**	277V	**DBT**	Dark Bronze Matte Textured	**SWP**[1,2]	SiteSync Pre-commission	**EH**[1,2]	Battery w/ heater -20°
SG1-40	Size 1, 40W					**UHV**	347V-480V	**DBS**	Dark Brone Gloss Smooth	**SWPM**[1,2]	SiteSync Pre-commission w/ Sensor		
SG2-50	Size 2, 50W							**GTT**	Graphite Matte Textured	**Specify MTG HT for SCO/SCP & SWPM**			
SG2-80	Size 2, 80W							**LGS**	Light Grey Gloss Smooth	**8F**	Up to 8'		
								PSS	Platinum Silver Smooth	**20F**	Up to 20'		
								WHT	White Matte Textured				
								WHS	White Gloss Smooth				
								VGT	Verde Green Textured				
								Color Option					
								CC	Custom Color				

Notes:

1 Available in SG2 only, UHV available in SG2-50 only

2 Sensor controls & battery backup can not be used with flood accessory or kit or for inverted/up mounting, 120-227V only for SCO/SCP, 120 or 277 only for SWP, SWPM, E & EH

3 Must order minimum of one remote control to program dimming setttings, 0-10V fully adjustable dimming with automatic daylight calibration and different time delay settings, 120-277V only

STOCK ORDERING INFORMATION

Catalog Number	CCT/CRI	Wattage	Mounting Height	Color	Color	Delivered Lumens	LPW	Weight lbs. (kg)
SG1-10-PCU	5000K/70	11W	8–12ft	120–277V	Dark Bronze	1349	122	4.3 (2.0)
SG1-10-4K-PCU	4000K/70	11W	8–12ft	120–277V	Dark Bronze	1424	129	4.3 (2.0)
SG1-20-PCU	5000K/70	21W	8–12ft	120–277V	Dark Bronze	2263	108	4.3 (2.0)
SG1-20-4K-PCU	4000K/70	21W	8–12ft	120–277V	Dark Bronze	2310	110	4.3 (2.0)
SG1-30-PCU	5000K/70	29W	10–15ft	120–277V	Dark Bronze	3270	113	4.3 (2.0)
SG1-30-4K-PCU	4000K/70	29W	10–15ft	120–277V	Dark Bronze	3060	105	4.3 (2.0)
SG1-40-PCU	5000K/70	38W	10–15ft	120–277V	Dark Bronze	4008	105	4.3 (2.0)
SG1-40-4K-PCU	4000K/70	38W	10–15ft	120–277V	Dark Bronze	4070	106	4.3 (2.0)
SG2-50-PCU	5000K/70	51W	12–18ft	120–277V	Dark Bronze	5548	110	11 (5.0)
SG2-50-4K-PCU	4000K/70	51W	12–18ft	120–277V	Dark Bronze	5526	109	11 (5.0)
SG2-80-PCU	5000K/70	80W	15–25ft	120–277V	Dark Bronze	8061	101	11 (5.0)
SG2-80-4K-PCU	4000K/70	80W	15–25ft	120–277V	Dark Bronze	8079	101	11 (5.0)

HUBBELL Lighting

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ORDERING GUIDE

OPTIONS AND ACCESSORIES

	Catalog Number	Description	Weight lbs. (kg)
☐	SG1-CS	Acrylic comfort lens for SG1	1 (.45)
☐	SG2-CS	Acrylic comfort lens for SG2	1 (.45)
☐	SG1-YOKE	SG1 Series Yoke/Floodlight mount kit, includes visor	2.0 (1.0)
☐	SG1-KNUCKLE	SG1 Series Knuckle/Floodlight mount kit, includes visor	2.0 (1.0)
☐	SG2-YOKE	SG2 Series Yoke/Floodlight mount kit, includes visor	2.0 (1.0)
☐	SG2-KNUCKLE	SG2 Series Knuckle/Floodlight mount kit, includes visor	2.0 (1.0)
☐	SCP-REMOTE*	Remote control for SCP option. Order at least one per project to program and control fixtures	1 (.45)
☐	SG1-SPC	Vandal Resistant Lens (shield polycarbonate), SG1	3 (1.5)
☐	SG2-SPC	Vandal Resistant Lens (shield polycarbonate), SG2	3 (1.5)
☐	SG1-WCP	Universal Wall Cover Plate, Dark Bronze, SG1	10 (5)
☐	SG2-WCP-H	Horizontal Mount Wall Cover Plate, Dark Bronze, SG2	10 (5)
☐	SG2-WCP-V	Vertical Mount Wall Cover Plate, Dark Bronze, SG2	10 (5)
☐	SG2XL-WCP-H	Horizontal Mount Wall Cover Plate, DB, SG2 with battery or sensor	10 (5)
☐	SG2XL-WCP-V	Vertical Mount Wall Cover Plate, DB, SG2 with battery or sensor	10 (5)

ACCESSORIES AND SERVICES (ORDERED SEPARATELY)

Control Options	
SWUSB[1]	SiteSync™ interface software loaded on USB flash drive for use with owner supplied PC (Windows based only). Includes SiteSync™ license, software and USB radio bridge node.
SWTAB[1]	Windows tablet and SiteSync™ interface software. Includes tablet with preloaded software, SiteSync™ license and USB radio bridge node.
SWBRG[2]	SiteSync™ USB radio bridge node only. Order if a replacement is required or if an extra bridge node is requested.

Notes:

1 When ordering SiteSync™ at least one of these two interface options must be ordered per project.

2 If needed, an additional Bridge Node can be ordered.

MORE INFORMATION: ACCESSORIES AND SERVICES

HUBBELL Outdoor Lighting

DATE: LOCATION:

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SLING SERIES

SLENDER WALLPACK

PERFORMANCE DATA

Description	# of LEDs	Drive Current	System Watts	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
SG1-10	2	140mA	11	1349	122	1	0	0	1424	129	1	0	0	1003	91	1	0	0
SG1-20	2	250mA	21	2449	115	1	0	0	2310	110	1	0	0	2054	95	1	0	0
SG1-30	2	350mA	29	3332	117	2	0	0	3060	106	1	0	0	2913	100	1	0	0
SG-40	2	450mA	38	4008	105	2	0	0	4070	106	2	0	0	3845	100	2	0	0
SG2-50-UHV	3	350mA	44	4633	106	2	0	0	4609	105	2	0	0	3895	90	2	0	0
SG2-50	3	415mA	51	5548	109	2	0	0	5526	107	2	0	0	4700	92	2	0	0
SG2-80	3	650mA	80	7851	98	2	0	1	8079	103	2	0	1	6721	86	2	0	1

*347 and 480 VAC input Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment application and inherent performance balances of the electrical components.

ELECTRICAL DATA

Catalog number	# of Drivers	Input Voltage	Current (AMPS)	System Power
SG1-10	1	120	0.09	11.0
	1	277	0.04	11.0
SG1-20	1	120	0.18	21.0
	1	277	0.08	21.0
SG1-30	1	120	0.24	28.9
	1	277	0.10	28.9
SG2-40	1	120	0.32	38.3
	1	277	0.14	38.3
SG-50-UHV	1	347	0.13	43.5
	1	480	0.18	43.5
SG2-50	1	120	0.42	50.6
	1	277	0.18	50.6
SG2-80	1	120	0.68	79.8
	1	277	0.29	79.8

PROJECTED LUMEN MAINTENANCE

Ambient Temperature	OPERATING HOURS					
	0	25,000	50,000	TM-21-11[1] L96 60,000	100,000	L70 (Hours)
25°C / 77°F	1.00	0.98	0.97	0.96	0.95	>791,000
40°C / 104°F	0.99	0.98	0.96	0.96	0.94	>635,000

1. Projected per IESNA TM-21-11 * (Nichia 219B, 700mA, 85°C Ts, 10,000hrs) Data references the extrapolated performance projections for the base model in a 40°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08

HUBBELL Lighting

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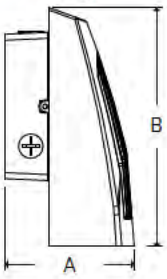
LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

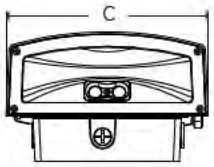
Ambient Temperature		Lumen Multiplier
0° C	32° F	1.02
10° C	50° F	1.01
20° C	68° F	1.00
25° C	77° F	1.00
30° C	86° F	1.00
40° C	104° F	0.99
50° C	122° F	0.96

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

DIMENSIONS

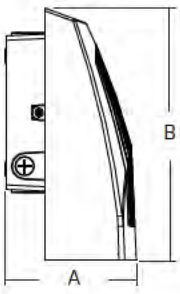
SG1

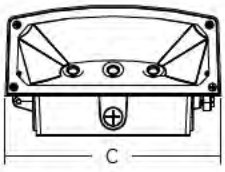




A	B	C	Weight
4.19" (107mm)	7.80" (198mm)	6.61" (168mm)	4.4lbs (2kg)

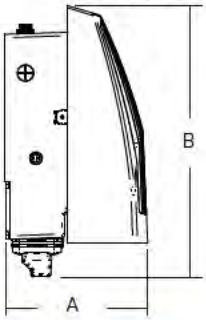
SG2

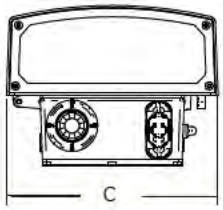




A	B	C	Weight
5.80" (147mm)	11.14" (283mm)	9.52" (242mm)	11lbs (5kg)

SG2 with occupancy sensor and battery options





A	B	C	Weight
7.26" (184mm)	13.84" (352mm)	9.52" (242mm)	11lbs (5kg)

HUBBELL Outdoor Lighting

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SLING SERIES

SLENDER WALLPACK

PHOTOMETRY

SG1-10-4K7

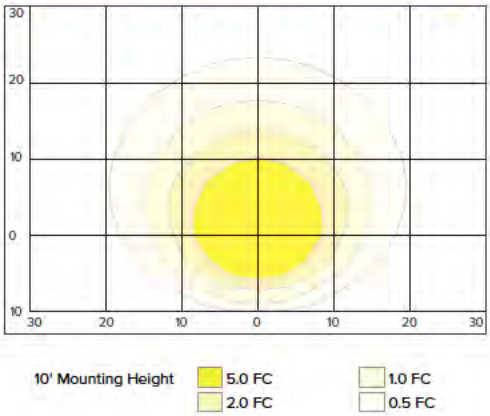
LUMINAIRE DATA

Description	**4000 Kelvin, 70 CRI**
Distribution Type	**Forward Throw**
Delivered Lumens	**1424**
Watts	**11.4**
Efficacy	**125**
Mounting	**Wall**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	996.6	70.0
Downward House Side	427.8	30.0
Downward Total	1424.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	1424.4	100.0

ISOMETRIC FOOTCANDLE



SG1-20-4K7

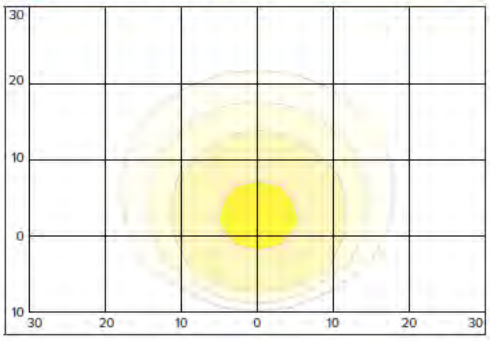
LUMINAIRE DATA

Description	**4000 Kelvin, 70 CRI**
Distribution Type	**Foward Throw**
Delivered Lumens	**2310**
Watts	**20.9**
Efficacy	**111**
Mounting	**Wall**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1618	70.0
Downward House Side	692.1	30
Downward Total	2310	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	2310.3	100.0

ISOMETRIC FOOTCANDLE



SG1-30

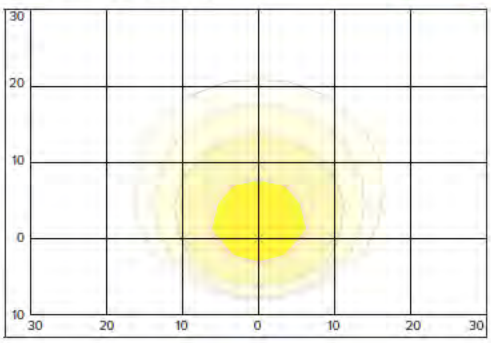
LUMINAIRE DATA

Description	**4000 Kelvin, 70 CRI**
Distribution Type	**Forward Throw**
Delivered Lumens	**3060**
Watts	**29.1**
Efficacy	**105**
Mounting	**Wall**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	2619.4	70.9
Downward House Side	890.4	29.1
Downward Total	3059.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	3059.8	100.0

ISOMETRIC FOOTCANDLE



HUBBELL Lighting

HUBBELL Outdoor Lighting

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SLING SERIES

SLENDER WALLPACK

PHOTOMETRY

SG1-40-4K7

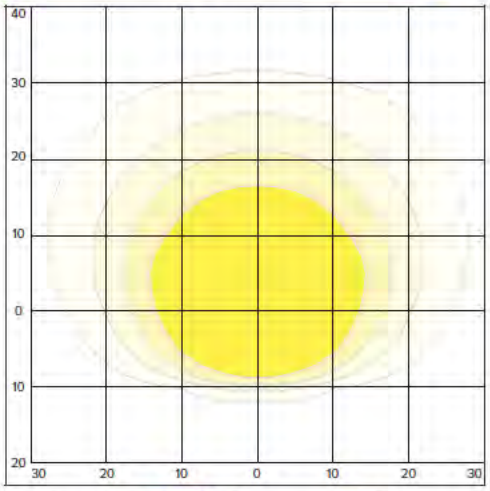
LUMINAIRE DATA

Description	**4000 Kelvin, 70 CRI**
Distribution Type	**Foward Throw**
Delivered Lumens	**4070**
Watts	**38.1**
Efficacy	**107**
Mounting	**Wall**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	2857.7	70.2
Downward House Side	1215.5	29.8
Downward Total	4070.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	4070.2	100.0

ISOMETRIC FOOTCANDLE



SG2-50-4K7

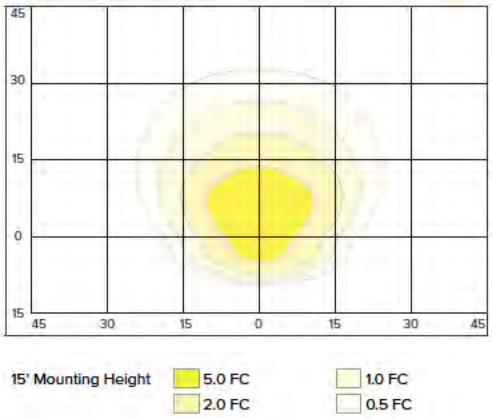
LUMINAIRE DATA

Description	**4000 Kelvin, 70 CRI**
Distribution Type	**Foward Throw**
Delivered Lumens	**5525.7**
Watts	**51.7**
Efficacy	**107**
Mounting	**Wall**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	4611.8	83.5
Downward House Side	913.9	16.5
Downward Total	5525.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	5525.7	100.0

ISOMETRIC FOOTCANDLE



SG2-80-4K7

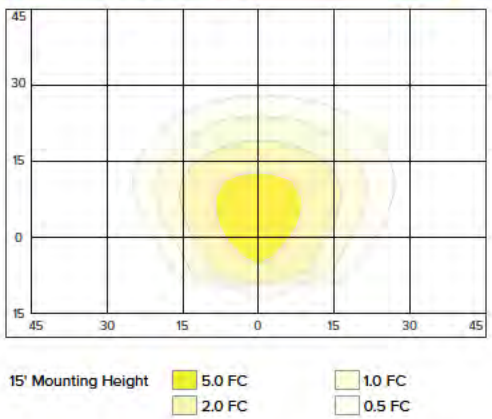
LUMINAIRE DATA

Description	**4000 Kelvin, 70 CRI**
Distribution Type	**Foward Throw**
Delivered Lumens	**8453**
Watts	**78.5**
Efficacy	**108**
Mounting	**Wall**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	6677.7	79.0
Downward House Side	1775.5	21.0
Downward Total	8453.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	8453.2	100.0

ISOMETRIC FOOTCANDLE



HUBBELL Lighting

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SLING SERIES

SLENDER WALLPACK

ADDITIONAL INFORMATION

Shipping Information

Catalog Number	G.W(kg)/ CTN	Carton Dimensions			Carton Qty. per Master Pack	Pallet Qty.
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)		
SG1	4.35lbs (2kg)	9.5 (24)	8.25 (21)	5.25 (13)	6	98
SG2	11lbs (5kg)	14 (36)	11.5 (29)	8 (20)	2	64

Accessories and Services

Comfort Lens

Acrylic comfort lens provides glare control, improved visual comfort and better uniformity

Visor

Visor accessory included with mounting accessory kits

Mounting Options

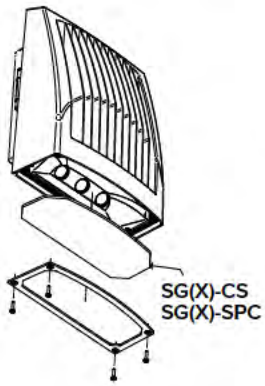
Flood mounting accessories - 1/2" threaded knuckle or yoke (includes grommet and 3' SO cord)

Photocontrol

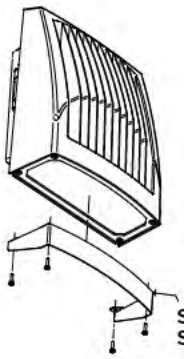
Photocontrol option available for energy-saving dusk-to-dawn operation

Hinged Housing Door

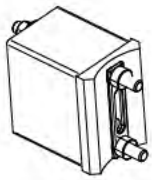
Side hinged for easy installation and wiring access, single screw secures housing closure



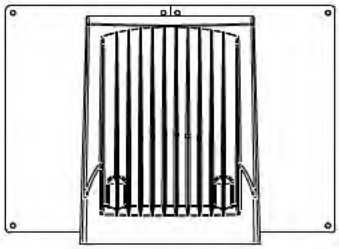
SG(X)-CS
SG(X)-SPC



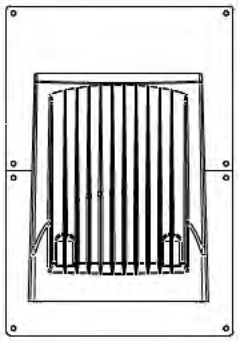
SG(X)-YOKE
SG(X)-KNUCKLE



SG(X)-PMA-(X)-XX



SG(X)-WCP-H



SG(X)-WCP-V

Features

Emergency Mode (EH)

Battery back up feature with side indicator.

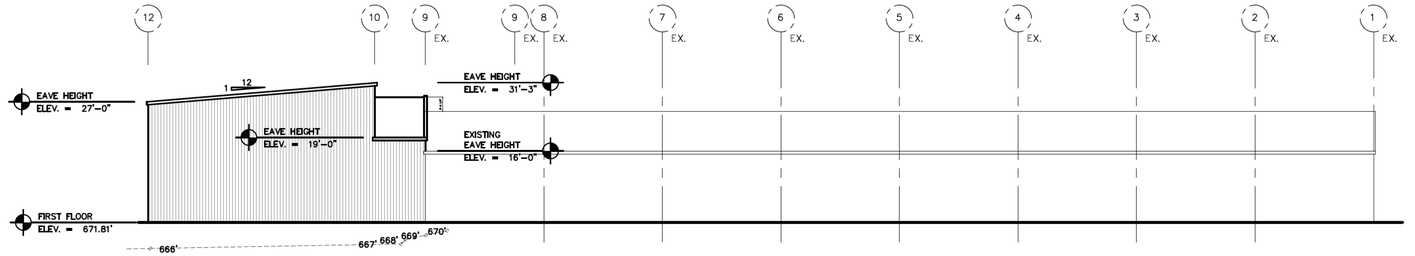
Exceeds Life Safety Code average illuminance of 1.0 fc. at 12' mounting height. Assumes open space with no obstructions. Battery backup units consume 6W when charging a dead battery and 2W during maintenance charging. EH (units with a heater) consume up to an additional 8W when charging if the battery temp is lower than 10°C

Diagrams for illustration purposes only, please consult factory for application layout.

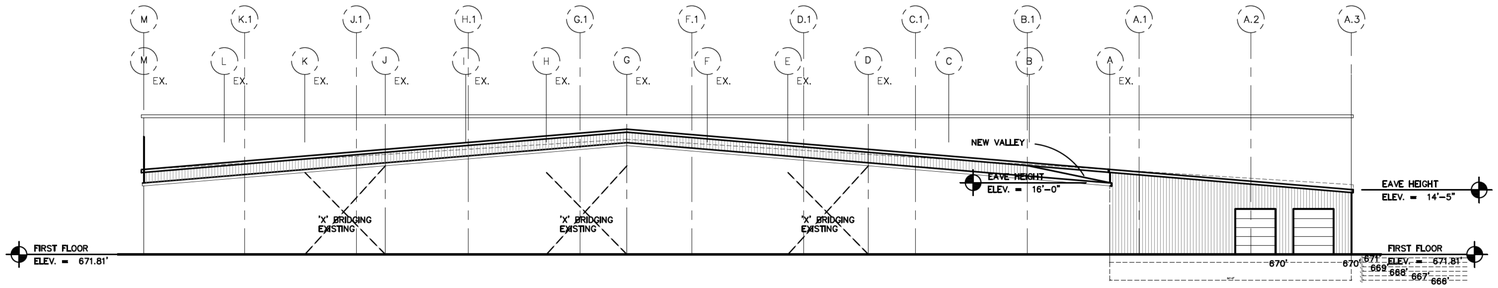
Wireless and Occupancy Controls

SiteSync™ Lighting Control delivers flexible control strategies for reducing power consumption and minimizing maintenance costs while delivering the right light levels with a simple and affordable wireless solution.

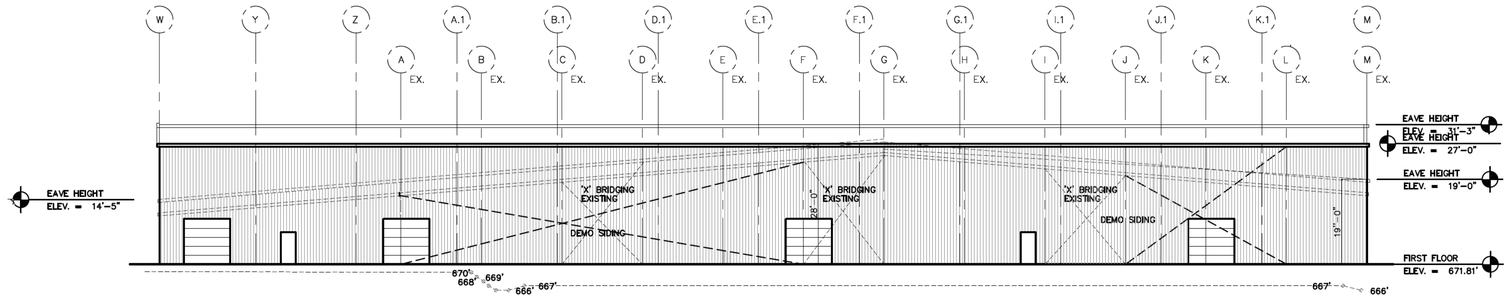
HUBBELL Lighting



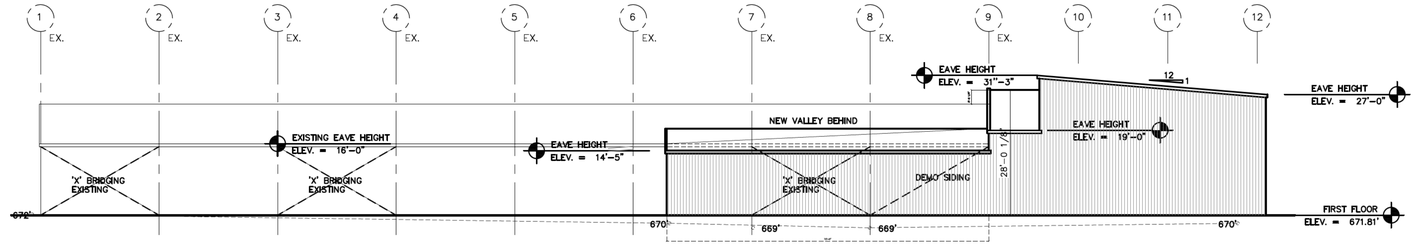
WEST ELEVATION



SOUTH ELEVATION



NORTH ELEVATION



EAST ELEVATION

STEVEN W. HANSEN, ARCHITECT
890 LONGVIEW COURT
SUGAR GROVE, IL. 60554
630-204-8613 - 60554

TMF MANAGEMENT
12127B GALENA ROAD
KENDALL COUNTI, ILLINOIS

REV. #	DATE	DESCRIPTION
1	10-25-2021	SCHEME 2 10-25-2021
2	11-10-2021	SCHEME 2 11-10-2021

PROJECT NO.

SK3.1

TEBRUGGE ENGINEERING

410 E. CHURCH ST.–SUITE A
SANDWICH, IL 60548

PHONE: (815) 786-0195
EMAIL: INFO@TEBRUGGEENGINEERING.COM
WEBSITE: WWW.TEBRUGGEENGINEERING.COM

November 23, 2021

Mr. Matt Asselmeier
Kendall County Planning, Building and Zoning Department
111 W Fox St
Room 204
Yorkville, IL 60560-1498

Re: TMF Plastic Building Addition
12127 Galena Rd – Unit B
Plano, IL

Dear Mr. Asselmeier,

We have completed the revisions per your review letter received on 11.23.21 A copy of the revised Civil Site Plans and Final Plan is enclosed.
1 The zip code was corrected.
2. We did find that there were two signs in the parking lot, so we added a second striped handicap stall.
3. The north doors do not require any access drive.
4. The facility runs 3 shifts and has 32 employees per shift. There are no company vehicles.
5. We have added a 6' chain link fence with vinyl slats along the east property line in front of the docks.
6. The back area near the docks acts as a loading berth.
7. Side and rear yard setbacks are detailed off the corners of the building. The setbacks meet the M-I zoning requirement.
8. There is no mechanical equipment on the roof. No HVAC on this building addition.
9. The lighting levels at the property line meet the 0.2 requirements.
10. The addition does not need any refuse containers.

If you have any additional questions, please contact us.

Sincerely,

Tebrugge Engineering

[redacted]

John Tebrugge