



PERMIT FOR WATER SUPPLY SYSTEMS

(Construction – Alteration – Addition or Improvement) as Described Herein
*Required under the Authority of 1976 PA 399, as amended (Act 399)**

Water System Project:

Water Supply Name: WALLED LAKE, CITY OF
Public Water Supply ID: MI0006875
Project Name: 7-Eleven - Walled Lake
Project Purpose: New Development
Project Location: Walled Lake, MI
Project County: Oakland

 <p>Permit Number: ACT-498713 Issued Date: 10/16/2025 Expiration Date: 10/16/2027</p>
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This permit only authorizes the construction and/or alteration of the waterworks system as described below and detailed in the approved drawings and specifications in accordance with Part 13 of the Administrative Rules of Act 399.

**ISSUED UNDER THE AUTHORITY OF THE DIRECTOR OF
THE MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY**

Reviewed by: Amy Douville

Issued by: Tom Flaminio

This permit expires if construction or alteration has not commenced by the expiration date, 10/16/2027, in accordance with R 325.11306.

Requests for extension of this permit may be made in [MiEHDWIS](#) Construction Permit Activity ACT-498713 or by contacting your EGLE representative.

Facilities Description:

Install watermain from the connection point on the east side of Decker Rd to proposed fire hydrant in public ROW

Conditions:

7-Eleven - Walled Lake Facilities

Mains

Length (ft)	Size (in)	Material	Construction Type	Comments
61	8	DI	Water Main Expansion	installed from the connection point on the east side of Decker Rd to proposed fire hydrant in ROW

Tanks

Volume (GL)	Tank Type	Construction Type	Comments
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Wells

Diameter (in)	Depth (ft)	Capacity (GPM)	Pump Type	Construction Type	Comments
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Pumps

Total Dynamic Head (TDH)	Capacity at TDH (GPM)	Pump Type	Number of Pumps	Construction Type	Comments
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Treatment Processes

Construction Type	Treatment	Comments
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Other Facilities

Type of Facility	Description
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* This Act 399 Permit is issued under the authority of the Director of the Michigan Department of Environment, Great Lakes, and Energy (EGLE) and allows the construction and/or alteration of the water system as described herein in accordance with Part 13 of the Administrative Rules of Act 399.

The issuance of this permit does not authorize violation of any federal, state, or local laws or regulations, nor does it obviate the necessity of obtaining such permits, including any other EGLE permits, or approvals from other units of government as may be required by law.

This permit expires if construction or alteration has not commenced by the expiration date indicated above in accordance with R 325.11306. Requests for extension of this permit can be made through MiEHDWIS or by contacting your EGLE representative.

Revisions of the approved plans and specifications must be done in accordance R325.11309.

Noncompliance with the conditions of this permit and the requirements of Act 399 constitutes a violation of the Act.

Intentionally providing false information in this application constitutes fraud which is punishable by fine and/or imprisonment.

Where applicable for water withdrawals, the issuance of this permit indicates compliance with the requirements of Part 327 of Act 451, Great Lakes Preservation Act.

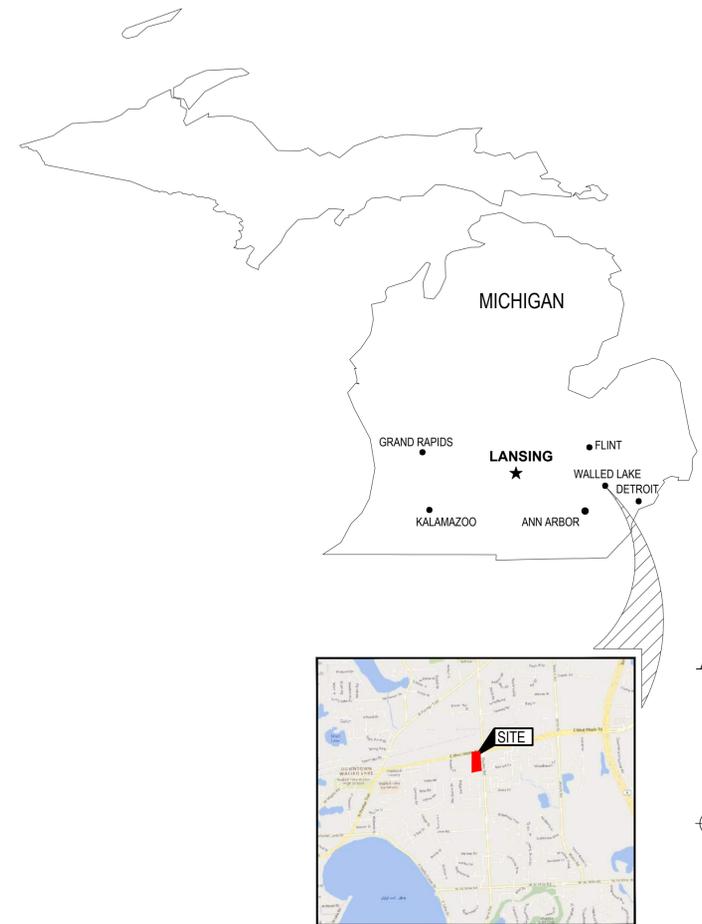
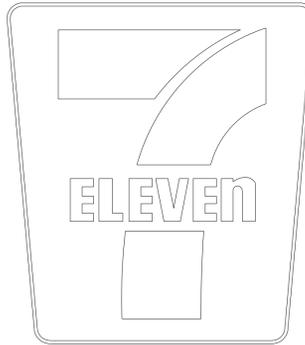
CITY OF WALLED LAKE, OAKLAND COUNTY, MICHIGAN

CONSTRUCTION PLANS

FOR

7-ELEVEN

1700 E. WEST MAPLE ROAD
WALLED LAKE, MI 48390



VICINITY MAP
1" = 3000'

Sheet Number	Sheet Title
CV	COVER SHEET
GN	GENERAL NOTES
CD	DEMOLITION PLAN
CD1	DEMOLITION OVERLAY PLAN
CS	SITE PLAN
CS1	DIMENSION PLAN
CR	CIRCULATION PLAN
CG	GRADING PLAN
CG1	DETAILED GRADING PLAN
CF	CUT & FILL PLAN
CU	UTILITY PLAN
CU1	UTILITY PROFILES (STORM)
CU2	WATER MAIN EXTENSION PLAN
CE	SWPPP (SESC) PHASE I
CE1	SWPPP (SESC) PHASE II
CE2	SWPPP (SESC) DETAILS
MT-1	MAINTANENCE OF TRAFFIC NOTES
MT-2	MAINTANENCE OF TRAFFIC
MT-3	MAINTANENCE OF TRAFFIC
CPC-1	CONSTRUCTION DETAILS
CPC-2	CONSTRUCTION DETAILS
CUD-1	CONSTRUCTION DETAILS
CUD-2	EXISTING HYDROLOGY
CUD-3	PROPOSED HYDROLOGY
CUD-4	SITE TRIBUTARY MAP
CYE-A	CONSTRUCTION DETAILS
SCB-1	STANDARD CANOPY BASE DETAILS
DET-1	CONSTRUCTION DETAILS
DET-2	OAKLAND COUNTY WRC DETAILS
DET-3	OAKLAND COUNTY WRC DETAILS
DET-4	OAKLAND COUNTY WRC DETAILS
L1.0	PLANTING PLAN
L2.0	PLANTING DETAILS & NOTES
L3.0	TREE REMOVAL PLAN
L3.1	TREE REMOVAL PLAN
1 OF 1	LIGHTING PLAN
1 OF 1	ALTA
R1	TITLE SHEET
R2	SCHEMATIC PLAN
R3	GENERAL NOTES
R4	TYPICAL SECTIONS
R5	MAINTANENCE OF TRAFFIC NOTES
R6	MAINTANENCE OF TRAFFIC PLAN
R7	STORMWATER POLLUTION PREVENTION PLAN
R8	PLAN AND PROFILE
R9	CROSS SECTIONS STA. 12+50 TO 14+00
R10	CROSS SECTIONS STA. 14+50 TO 15+50
R11	INTERSECTION DETAIL
R12	PAVEMENT MARKING AND SIGNAGE



APPROVED
Water Supply Only
robertsonc 08/20/2025

SURVEY PROVIDED BY:
CESO, INC.
3601 RIGBY RD
MIAMISBURG, OH 45342
PHONE: 937.435.8584
DATED: 2020.06.30

CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO BID AND CONSTRUCTION.



SEVENTY-TWO (72) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTORS SHALL NOTIFY THE FOLLOWING AGENCIES: MICHIGAN UTILITIES PROTECTION SERVICE AT 811 OR 800-482-7171 AND ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NONMEMBERS OF STATE UTILITIES PROTECTION SERVICE

LESSEE:
7-ELEVEN (AKA SPEEDWAY LLC)
3200 HACKBERRY RD
IRVING, TX 75063
CONTACT: JAMES HUGHES

CONSTRUCTION MANAGER:
7-ELEVEN (AKA SPEEDWAY LLC)
3200 HACKBERRY RD
IRVING, TX 75063
CONTACT: KENNETH LETZ
PHONE: (330) 690-2345

OWNER/DEVELOPER:
JOSH BRATTON
AGREE DEVELOPMENT, LLC
32301 WOODWARD AVE
ROYAL OAK, MI 48073

ENGINEER:
CESO, INC.
13060 S US HIGHWAY 27
DEWITT, MI 48820
PHONE: (517) 212-4185
CONTACT: MANDY GAUSS, P.E.
EOR: ZACH FRESHNER, P.E.

GOVERNING/ O&M AGENCIES AND UTILITY COMPANIES:

SEWER:
OAKLAND COUNTY WATER RESOURCE COMMISSIONER
1 PUBLIC WORKS DRIVE, BLDG 95W
WATERFORD, MI 48328
PHONE: (248) 858-0958

GAS SERVICE:
CONSUMER ENERGY COMPANY
1 ENERGY PLAZA
JACKSON, MI 49201
PHONE: (800) 477-5050

WATER:
OAKLAND COUNTY WATER RESOURCE COMMISSIONER
1 PUBLIC WORKS DRIVE, BLDG 95W
WATERFORD, MI 48328
PHONE: (248) 858-0958

COMMUNICATIONS:
COMCAST
800-391-3000
AT&T
800-321-2000

STORMWATER:
OAKLAND COUNTY WATER RESOURCE COMMISSIONER
1 PUBLIC WORKS DRIVE, BLDG 95W
WATERFORD, MI 48328
PHONE: (248) 858-0958

ELECTRIC:
DTE ENERGY
15600 19 MILE RD
CLINTON TWP, MI 48038
PHONE: (800) 477-4747

CITY OF WALLED LAKE
1499 E. WEST MAPLE
WALLED LAKE, MI 48390
PHONE: (248) 624-4847

ZONING:
CITY OF WALLED LAKE
1499 E. WEST MAPLE ROAD
WALLED LAKE, MI 48390
PHONE: (248) 624-4847

ACT-498713 OCT 16, 2025
Permit Number Issued Date
Examined and Approved for Compliance with
Act 399, P.A. 1976

PROPERTY DATA:

PARCEL OWNER:	DECKER PROPERTIES, LLC	
PARCEL ID:	17-35-176-003	
ADDRESS:	1700 E. WEST MAPLE ROAD WALLED LAKE, MICHIGAN 48390	
PROPERTY AREA:	TOTAL: 5.33 AC EXCLUDING ROW: 4.21	
ZONING:	C-2 GENERAL COMMERCIAL DISTRICT	
PROPOSED USE:	CONVENIENCE STORE / GAS STATION	
	REQUIRED	PROPOSED
BUILDING SETBACKS		
FRONTAGE ALONG STREET:	35'	114'
SIDE:	10'	425'
REAR:	20'	93'
PARKING AREA SETBACKS		
FRONT:	20'	40'
SIDE:	7.5'	360'
REAR:	5'	25'
SIGN SETBACKS:	10'	25'
BUILDING AREA:	N/A	4,853 SF

FLOODPLAIN DESIGNATION: PARCEL IS LOCATED WITHIN "ZONE X" AS INDICATED BY THE FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NUMBER 26125C0487F. EFFECTIVE DATE: 09/29/2006; PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

W25-0168 WLC NW 35 City of Walled Lake



7-ELEVEN, INC.
WALLED LAKE
1700 E. WEST MAPLE ROAD
WALLED LAKE, MICHIGAN 48390

ID	Description	Date
1	AHJ OWNER COMMENTS	2025/02/20
2	AHJ COMMENTS	2025/04/22
3	AHJ COMMENTS	2025/06/03
4	AHJ COMMENTS	2025/06/19
5	AHJ COMMENTS	2025/07/01
6	OAKLAND WRC COMMENTS	2025/08/15

© 2024 CESO, INC.
Project Number: 764078
Scale: 1"=40'
Drawn By: KI
Checked By: MG
Date: 07/18/2025
Issue: PERMIT SET

Drawing Title:
COVER SHEET

CV

C:\DCC\06\06\CES07-Eleven - PMF - Walled Lake MI\Project Files\CES005-CIVIL\PLAN\LOT764078_COVER SHEET & GEN NOTES.dwg - 8/18/2025 - Mark Bulger

GENERAL NOTES

DEMOLITION NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL. THE DEMOLITION, REMOVAL, AND DISPOSAL IS TO BE APPROVED BY ALL GOVERNING AUTHORITIES, OF ALL FACILITIES SUCH AS: STRUCTURES, PADS, WALLS, FLAMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE, STRUCTURES, UTILITIES, WELLS, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL AS SPECIFIED BY A QUALIFIED PROFESSIONAL GEOTECHNICAL ENGINEER. IF UNDOCUMENTED FACILITIES ARE FOUND ON SITE, CONTRACTOR SHALL CONTACT THE OWNER AND UTILITY COMPANY PRIOR TO REMOVAL. ALL FACILITIES SHALL BE PLUGGED, ABANDONED, OR REMOVED PER STATE AND LOCAL REQUIREMENTS.
- FEDERAL, STATE AND LOCAL CODE REQUIREMENTS SHALL GOVERN THE DISPOSAL OF DEBRIS INCLUDING ANY POTENTIALLY HAZARDOUS AND TOXIC MATERIALS. ALL MATERIALS AND STRUCTURES DESIGNATED AS "TO BE REMOVED" SHALL BE DISPOSED OF OFF SITE AND AT THE COST OF THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING JOB SITE SAFETY PER OSHA REQUIREMENTS AT ALL TIMES.
- PRIOR TO DEMOLITION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL THE STATE REQUIRED MISS DIG (811) SYSTEM FOR DETERMINING UTILITY LOCATIONS AND NOTIFY ALL UTILITY COMPANIES TO SCHEDULE UTILITY SERVICE REMOVAL AND/OR ABANDONMENT. ALL UTILITIES SHALL BE REMOVED/RELOCATED PER THE SPECIFICATIONS OF THE UTILITY COMPANIES. THE CONTRACTOR IS RESPONSIBLE TO PAY ALL FEES AND CHARGES ASSOCIATED WITH THIS WORK.
- CONTRACTOR SHALL MAINTAIN ALL UTILITY SERVICES TO INHABITED BUILDINGS ON SITE AND ADJACENT PROPERTIES AT ALL TIMES. INTERRUPTIONS SHALL BE APPROVED BY THE OWNERS OF THE BUILDINGS/PROPERTIES.
- THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ONSITE LOCATIONS OF EXISTING UTILITIES. IF THE LOCATION OR ELEVATION OF THE EXISTING UTILITIES ARE FOUND TO BE DIFFERENT FROM THE PLANS, CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
- CONTRACTOR SHALL PROTECT EXISTING SITE FEATURES TO REMAIN INSIDE AND OUTSIDE CONSTRUCTION LIMITS. CONTRACTOR IS RESPONSIBLE TO DOCUMENT ALL EXISTING DAMAGES AND NOTIFY THE TOWNSHIP/COUNTY PRIOR TO CONSTRUCTION START. ANY EXISTING SITE FEATURE TO REMAIN THAT IS DAMAGED DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, CURB, ETC. SHALL BE REPAIRED TO A CONDITION THAT IS EQUAL TO, OR BETTER THAN, THE EXISTING CONDITIONS. PRIOR TO BEING DAMAGED, THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST.
- CONTINUOUS ACCESS SHALL BE MAINTAINED TO THE SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL. ALL TRAFFIC CONTROL MEASURES SHALL BE IN ACCORDANCE WITH STATE DEPARTMENT OF TRANSPORTATION REGULATIONS AND LOCAL REGULATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR PLACING AND MAINTAINING CONSTRUCTION FENCE, SIGNS, ETC. TO WARN AND KEEP UNAUTHORIZED PEOPLE OFF SITE FOR THE DURATION OF THE PROJECT.
- PRIOR TO DEMOLITION, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED PER THE GOVERNING AGENCIES GUIDELINES AND STANDARDS. DUST CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- SAWCUT LINE PROVIDED IS FOR REFERENCE ONLY. CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING THE EXTENT OF THE SAWCUT THAT WILL BE REQUIRED AS WELL AS PAVEMENT REPAIRS TO INSTALL UTILITY TRENCHING. IF ANY DAMAGE OCCURS ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THAT WHICH IS NECESSARY TO COMPLETE THE INTENT OF THE PROPOSED IMPROVEMENTS. SAWCUT EXISTING PAVEMENT TO FULL DEPTH, USING CARE TO CUT NEAT, STRAIGHT LINES. CUT AT EXISTING JOINTS WHERE POSSIBLE.
- THE CONTRACTOR SHALL MAINTAIN A WELL-DRAINED SITE, FREE OF STANDING WATER DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY DRAINAGE MEASURES DURING CONSTRUCTION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO STUDY THE PLANS AND VISIT THE SITE TO DETERMINE THE ITEMS THAT MUST BE REMOVED TO COMPLY WITH THE SITE DEVELOPMENT PLANS. NO EXTRA FEE WILL BE PAID FOR THE REMOVAL OF ANY ITEM NOT LISTED THAT IS VISIBLE UPON A SITE VISIT. THE DEMOLITION PLAN IS INTENDED TO PRESENT THE SCOPE OF THE DEMOLITION, AND DOES NOT GUARANTEE THAT ALL ITEMS ARE ADDRESSED.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS FOR ALL SITE DEVELOPMENT WORK, PAY ALL FEES FOR PERMITS AND CHECK ALL GOVERNING AUTHORITIES' SPECIFICATIONS FOR BUT NOT LIMITED TO, GUTTERS, SIDEWALKS, POLES, AND OTHER STRUCTURES, INCLUDING THE REMOVAL OR RELOCATION OF EXISTING UTILITIES OR OTHER PHYSICAL OBJECTS SHOWN ON PLANS OR NOTED OTHERWISE.
- THE CONTRACTOR SHALL CREATE AND IMPLEMENT AN EROSION AND SEDIMENTATION CONTROL PLAN FOR ALL SITE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE PROJECT. THE PLAN MUST CONFORM TO THE EROSION AND SEDIMENTATION REQUIREMENTS OF THE CONSTRUCTION GENERAL PERMIT OR LOCAL STANDARDS AND CODES, WHICHEVER IS MORE STRINGENT.
- ALL COSTS FOR INSPECTIONS AND/OR TESTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS NOTED OTHERWISE.

SITE NOTES

- ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
- ALL MATERIAL NOTED ON DRAWINGS WILL BE SUPPLIED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS TO COORDINATE ACCESS POINTS AND ELEVATIONS. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF DOORS, ENTRY RAMP, AND CANOPY.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS FOR ALL SITE DEVELOPMENT WORK, PAY ALL FEES FOR PERMITS AND CHECK ALL GOVERNING AUTHORITIES' SPECIFICATIONS FOR BUT NOT LIMITED TO, GUTTERS, SIDEWALKS, POLES, AND OTHER STRUCTURES, INCLUDING THE REMOVAL OR RELOCATION OF EXISTING UTILITIES OR OTHER PHYSICAL OBJECTS SHOWN ON PLANS OR NOTED OTHERWISE.
- THE CONTRACTOR SHALL CREATE AND IMPLEMENT AN EROSION AND SEDIMENTATION CONTROL PLAN FOR ALL SITE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE PROJECT. THE PLAN MUST CONFORM TO THE EROSION AND SEDIMENTATION REQUIREMENTS OF THE CONSTRUCTION GENERAL PERMIT OR LOCAL STANDARDS AND CODES, WHICHEVER IS MORE STRINGENT.
- ALL COSTS FOR INSPECTIONS AND/OR TESTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS NOTED OTHERWISE.
- ACCESSIBILITY STANDARDS SHALL BE IN ACCORDANCE WITH FEDERAL AND LOCAL REQUIREMENTS FOR HANDICAP ACCESSIBILITY, INCLUDING BUT NOT LIMITED TO THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES. ADA PARKING STALLS SHALL MEET ADA GRADE GUIDELINES. CONTRACTOR SHALL FIELD VERIFY EXISTING GRADES AT ACCESS POINTS, ACCESSIBLE ROUTES, AND EXISTING PARKING TO REMAIN TO DETERMINE COMPLIANCE WITH STANDARDS.
- ALL DISTURBED AREAS ARE TO RECEIVE 6" OF TOPSOIL, SEED, MULCH AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
- ALL DIMENSIONS AND RADII ARE TO THE FACE OF THE CURB OR EDGE OF PAVEMENT, AS APPLICABLE, UNLESS OTHERWISE NOTED.
- ALL CURB RADII ARE 5 FEET UNLESS OTHERWISE NOTED.
- PROVIDE SIGNAGE AND STRIPING AS SHOWN. ALL SIGNAGE AND PAVEMENT MARKINGS SHALL COMPLY WITH THE GOVERNING MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.). PAVEMENT MARKINGS ON ASPHALT SHALL BE WHITE. PAVEMENT MARKINGS ON CONCRETE SHALL BE YELLOW.
- REFER TO ARCHITECTURAL PLANS FOR PROPOSED BUILDING SIGNAGE.
- REFER TO MECHANICAL PLANS FOR EQUIPMENT LAYOUT.
- REFER TO ELECTRICAL PLANS FOR ELECTRICAL WORK.
- REFER TO GEOTECHNICAL ENGINEERING REPORT PROVIDED BY SME, DATED JULY 17, 2024, FOR SITE WORK PREPARATION/RECOMMENDATIONS AND PAVEMENT SECTIONS.
- REFER TO ORIGINAL SURVEY PROVIDED BY CESO INC., DATED JANUARY 17, 2024, FOR EXISTING SITE CONDITIONS.
- PROPOSED ONSITE LIGHT POLES TO BE LOCATED 3' FROM THE BACK OF CURB, AS MEASURED FROM THE FACE OF POLE FOUNDATION, UNLESS OTHERWISE DENOTED ON PLANS.

GRADING NOTES

- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- THE TOPOGRAPHIC SURVEY WAS PERFORMED BY A REGISTERED LAND SURVEYOR. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.
- CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
- THE CONTRACTOR SHALL ADHERE TO ALL APPLICABLE TERMS & CONDITIONS AS OUTLINED IN THE EPA AND/OR STATE GENERAL N.P.D.E.S. PERMIT AND/OR COUNTY AND LOCAL REQUIREMENTS.
- EXISTING AND PROPOSED GRADE CONTOUR INTERVALS ARE SHOWN AT 1 FOOT INTERVALS.
- ALL SPOT ELEVATIONS REFER TO FINISHED PAVEMENT ELEVATIONS UNLESS OTHERWISE NOTED.
- ALL ADA ACCESSIBLE PARKING SPACES AND LOADING AREAS SHALL BE GRADED WITH A 2.0% MAXIMUM SLOPE IN ALL DIRECTIONS. ALL ADA ACCESSIBLE ROUTES SHALL BE GRADED WITH A 2.0% MAXIMUM CROSS SLOPE AND 5.0% MAXIMUM RUNNING SLOPE.
- MAINTAIN EXISTING DRAINAGE PATTERN THROUGHOUT THE SITE, EXCEPT WITHIN THE LIMITS OF DISTURBANCE (LOD).
- COORDINATE GRADES AT BUILDING ENTRIES WITH ARCHITECTURAL PLANS.
- EXISTING DRAINAGE STRUCTURES SHALL BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES ARE TO BE CLEANED TO REMOVE ALL SILT AND DEBRIS AFTER CONSTRUCTION IS COMPLETE.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO A CONDITION EQUAL TO OR BETTER THAN ITS CONDITION PRIOR TO DAMAGE.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDING AND WITHIN PAVED AREAS.
- ALL TOPSOIL MUST BE REMOVED BEFORE FILL MATERIAL IS PLACED.
- ALL WET, OR OTHERWISE UNSUITABLE SOILS MUST BE STABILIZED. THIS MAY BE ACCOMPLISHED BY DRYING, REMOVAL & REPLACEMENT, REMOVAL & DRYING & RECOMPACTION, OR SOIL TREATMENT (LIME/CEMENT) UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL GEOTECHNICAL ENGINEER.
- ALL UNSURFACED AREAS, DISTURBED BY GRADING, OPERATION SHALL RECEIVE 6" OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER AND SEED WITH LOW MAINTENANCE GRASS SEED MIX. CONTRACTOR SHALL SEED DISTURBED AREAS IN ACCORDANCE WITH SPECIFICATIONS UNTIL A HEALTHY STAND OF GRASS IS OBTAINED. ALL EXPOSED SURFACE AREAS SHALL BE STABILIZED PER THE SWPPP AND LANDSCAPE REQUIREMENTS AS PART OF THIS PLAN SET.
- ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS SOIL TIGHT.
- ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT IN TO INVERT OUT.
- STORM PIPE SHALL BE IN ACCORDANCE OF STANDARD DETAILS GUIDELINES ON STD-CUD-1.
- ALL STORM SEWER STRUCTURE GRATES AND FRAMES WITHIN PAVEMENT SHALL BE HEAVY DUTY.
- ALL STORM DRAINAGE SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL COUNTY AND DOT STANDARDS.
- ALL DOWNSPOUT DRAIN LINES OR ROOF LEADERS SHALL HAVE A 1.0% MINIMUM SLOPE. UNLESS OTHERWISE NOTED, CONNECT ALL DOWNSPOUTS AND ROOF LEADERS TO THE STORM SEWER SYSTEM. REFER TO ARCHITECTURAL PLANS FOR DOWNSPOUT AND ROOF LEADER LOCATIONS. PROVIDE POSITIVE DRAINAGE AND PAVEMENT REPAIR AS NEEDED.
- ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
- THE STORM SEWER GRADE WILL BE SUCH THAT A MINIMUM COVER IS MAINTAINED TO WITHSTAND AASHTO HS-25 LOADING ON THE PIPE. PROVIDE MINIMUM 2.0 FEET OF COVER FOR ALL STORM SEWERS UNLESS OTHERWISE NOTED.
- WHEN A SANITARY SEWER MAIN LIES ABOVE A STORM SEWER, OR WITHIN 18 INCHES BELOW, THE SANITARY SEWER WILL HAVE AN IMPERVIOUS ENCASEMENT OR BE CONSTRUCTED OF STRUCTURAL SEWER PIPE FOR A MINIMUM OF 10 FEET ON EACH SIDE OF WHERE THE STORM SEWER CROSSES.
- IF EXISTING FIELD TILES ARE ENCOUNTERED DURING CONSTRUCTION THEY SHALL BE REPAIRED AND/OR TIED INTO A STORM SEWER SYSTEM AS NEEDED TO MAINTAIN POSITIVE DRAINAGE.

EXISTING FEATURES LEGEND

APPLIES TO ALL CIVIL SHEETS

	RIGHT OF WAY		STORM CATCH BASIN
	PARCEL LINE		STORM INLET BASIN
	PROPERTY BOUNDARY		STORM MANHOLE
	EASEMENT		STORM CLEANOUT
	CURB		SANITARY MANHOLE
	EDGE OF PAVEMENT		SANITARY CLEANOUT
	EDGE OF WALK		TRAFFIC MANHOLE
	PAVEMENT MARKINGS		SIGN
	GAS LINE		TELEPHONE POLE
	WATER LINE		
	UNDERGROUND ELECTRIC		
	UNDERGROUND TELE		
	OVERHEAD LINE		
	STORM SEWER		
	SANITARY SEWER		
	MAJOR CONTOURS		
	MINOR CONTOURS		
	WATER METER		
	WATER VALVE		
	POWER/TELE POLE		
	POWER POLE		
	AIR CONDITIONER		
	ELECTRIC BOX		
	LIGHT POLE		
	GAS VALVE		
	GAS METER		

UTILITY NOTES

- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE.
- THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF O.S.H.A. DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, AND OTHER MEANS OF PROTECTION. THIS TO INCLUDE BUT NOT LIMITED FOR ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR O.S.H.A.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING UTILITY DURING CONSTRUCTION AT NO COST TO THE OWNER.
- ALL FILL MATERIAL IS TO BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
- CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS. THE CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION OF THE RESPECTIVE UTILITY REGULATIONS AND THE OWNER'S INSPECTION AUTHORITIES.
- CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITY'S INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
- WATER AND SANITARY UTILITIES SHALL HAVE TEN (10') FEET OF HORIZONTAL CLEARANCE WHEN PARALLEL OR 18" VERTICAL CLEARANCE WHEN CROSSING. ALL CLEARANCE DISTANCES SHALL BE MEASURED FROM OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE. THE CROSSING SHALL BE ARRANGED SO THAT THE SANITARY SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER LINE JOINTS.
- IF A WATER LINE PASSES UNDER THE SANITARY SEWER LINE, THE SEWER LINE SHOULD BE CONSTRUCTED OF A WATERTIGHT MATERIAL APPROVED BY THE REGULATORY AGENCY FOR USE IN WATER MAIN CONSTRUCTION AND SHALL EXTEND TEN (10') FEET ON BOTH SIDES OF THE CROSSING, AS MEASURED PERPENDICULAR TO THE WATER LINES. ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO MAINTAIN LINE AND GRADE.
- UNDERGROUND LINES SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
- CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS. THE CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION OF THE RESPECTIVE UTILITY REGULATIONS AND THE OWNER'S INSPECTION AUTHORITIES.
- UTILITY TRENCHES WITHIN PAVED AREAS TO BE BACKFILLED PER UTILITY TRENCH DETAIL PROVIDED WITHIN THE CONSTRUCTION DETAILS SHEET.
- ALL WATER LINE WORK SHALL BE PERFORMED IN ACCORDANCE WITH OAKLAND COUNTY CONSTRUCTION STANDARDS AND STATE REGULATIONS.
- INSTALL ALL WATER LINES WITH A MINIMUM COVER OF 4'.
- ON-SITE WATER LINE MATERIAL SHALL BE PER OAKLAND COUNTY WATER RESOURCES COMMISSIONER'S OFFICE (OCWRC) REQUIREMENTS AND PLANS. ONLY APPLICABLE MATERIALS PER OCWRC SHALL BE PERMITTED FROM THE TABLE BELOW, AS REQUIRED:

MATERIAL	PRESSURE RATING	PIPE SPEC	FITTINGS	INSTALLATION	ACCEPTABLE AREAS OF USE
HIGH-DENSITY POLY-ETHYLENE (HDPE TUBING)	SDR 9 P.C. = 250 PSI	ASTM D2239 AWWA C901 ASTM F714	ASTM D3350 ASTM D3261	ASTM D2774	ON SITE, < 3" DIA.
COPPER 1"-3"	TYPE "K"	ASTM B88	AWWA C800	AWWA C800	DOMESTIC WATERLINES 1"-3"
PE 4710 POLY-ETHYLENE PLASTIC (IPS)	SDR 11 P.C. = 200 PSI	ASTM D3035 AWWA C901	ASTM D3350 ASTM D3261	ASTM D2774	ON SITE, 2" TO 3" DIA.
P.V.C. POLY VINYL CHLORIDE 4"- 8" C900	C900	AWWA C901 (RATED DR 14)	ASTM F-477 ASTM D3139	AWWA C900 C651	ON SITE, 4"-8" WATER LINES & FIRE LINES INSTALL W/ TRACER & TAPE #12 COPPER
DUCTILE IRON PIPE 4"-12"	CLASS 54 P.C. = 350PSI	AWWA C104, C110, C151, C500	AWWA C111	AWWA C600, C651	6" FIRE HYDRANT LEADS
PE 4710 POLY-ETHYLENE PLASTIC (DIPS)	SDR 9 P.C. = 250 PSI	ASTM D2239 ASTM F714 AWWA C906	ASTM D3350 ASTM D3261	ASTM D2774	ON SITE, 4" DIA. AND LARGER

- ON-SITE SANITARY SEWER LINE AND STORM SEWER LINE MATERIALS SHALL BE PER OCWRC REQUIREMENTS AND PLANS. ONLY APPLICABLE MATERIALS PER OCWRC SHALL BE PERMITTED, AS REQUIRED AND AS PROVIDED IN ACCORDANCE WITH STANDARD DETAILS GUIDELINES PER THE PIPE SPECIFICATIONS TABLE ON CONSTRUCTION DETAIL SHEET CUD-1.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS, SERVICE SIZES TO BE DETERMINED BY
- CLEAN OUTS AND CURB BOXES WITH THE PAVED AREAS MUST HAVE TRAFFIC LOADING FRAMES AND COVERS
- WATERMAIN, SANITARY SEWER AND STORM SEWER STANDARDS MUST COMPLY WITH COUNTY REQUIREMENTS & CITY REQUIREMENTS AND THE MOST RESTRICTIVE REQUIREMENTS SHALL APPLY.



CESO
WWW.CESOINC.COM

3601 Regby Rd., Suite 300
Mansfield, OH 43042
Phone: 937.435.8584 Fax: 888.208.4826



7-ELEVEN, INC.
WALLED LAKE
1700 E. WEST MAPLE ROAD
WALLED LAKE, MICHIGAN 48390

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6	OAKLAND WRC COMMENTS	2025/08/15

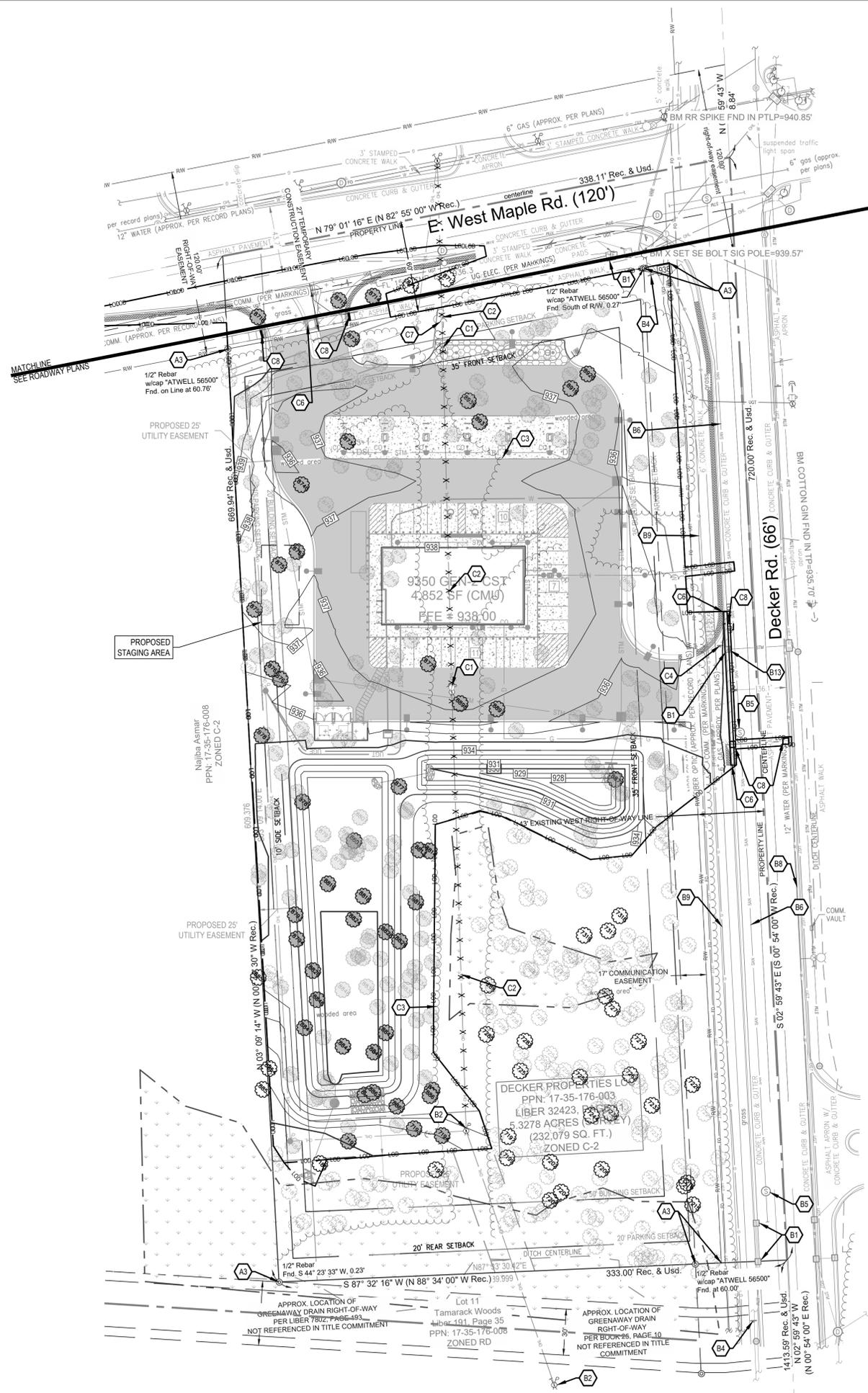
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Project Number: **764078**
Scale: **1"=40'**
Drawn By: **KI**
Checked By: **MG**
Date: **07/18/2025**
Issue: **PERMIT SET**

Drawing Title:
GENERAL NOTES

GN

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LEGEND

- CURBING TO REMAIN
- /////// CURBING TO BE REMOVED
- ASPHALT TO BE REMOVED
- X X X X POWER LINE TO BE REMOVED & RELOCATED
- - - - - FENCE
- - - - - SAWCUT EXISTING PAVEMENT
- STM STORM SEWER
- SAN SANITARY SEWER
- G GAS LINE
- W WATER LINE
- UGT TELEPHONE LINE
- UGE UNDERGROUND ELECTRIC LINE
- OHE OVERHEAD ELECTRIC LINE
- UP UTILITY POLE
- LP LIGHT POLE
- SN (AS NOTED) SIGN
- HYD HYDRANT
- LOD LIMITS OF DISTURBANCE

TREE REMOVAL

PROTECTED/LANDMARK TREE REMOVAL

TREE TO REMAIN

PROTECTED/LANDMARK TREE TO REMAIN

A. GENERAL NOTES

1. CLEAR ENTIRE SITE AND PROPERLY DISPOSE OF ALL MATERIALS UNLESS OTHERWISE SPECIFIED ON THE PLANS OR BY THE OWNER'S REPRESENTATIVE.
2. CONTRACTOR SHALL NOTIFY THE OWNER OF ANY UNFORSEEN CONDITIONS.
3. THE PROPERTY CORNERS SHALL BE MARKED BY OWNER AND PROTECTED AND MAINTAINED BY CONTRACTOR. HEXAGON HAS BEEN ADDED, BUT GENERAL NOTE A3 APPEARS TO STILL REQUIRE REVISION. REVISE.
4. IF DAMAGED AS A RESULT OF THIS CONTRACT, ANY ITEMS TO REMAIN SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
5. CONTRACTOR SHALL NOTIFY LOCAL UTILITIES 48 HRS. PRIOR TO DEMOLITION.
6. CONTRACTOR SHALL INSPECT OVERALL SITE PRIOR TO CONSTRUCTION START AND VERIFY THAT THE ALTA SURVEY INDICATES THE CORRECT TOPOGRAPHY. IF ANY INACCURACIES ARE NOTED, PLEASE CONTACT OWNER'S REPRESENTATIVE.
7. CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH ALL UTILITIES AND COMPLY WITH REGULATIONS AND STANDARDS FOR EACH UTILITY.
8. WHEN REMOVING EXISTING UTILITY, CAP UTILITY AT THE MAIN.
9. CONTRACTOR SHALL PROVIDE BARRIERS, PERIMETER FENCING, PARTITIONS, FLAGGING, BRACING, SHORING, LIGHTS, AND SIGNS AS NECESSARY TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES.
10. CONTRACTOR SHALL EXERCISE CARE TO PREVENT DUST, VIBRATION, SETTLEMENT, OR OTHER IMPACT TO ADJACENT PROPERTY.
11. FOR DEMOLITION NOTES WITHIN RIGHT OF WAY, REFER TO ROADWAY PLANS.

B. KEY NOTES TO REMAIN

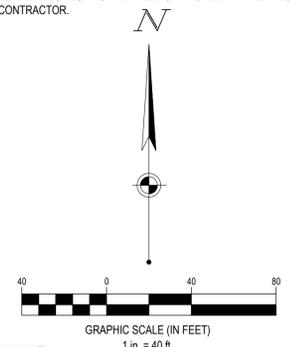
1. EXISTING UTILITY STRUCTURE TO REMAIN.
2. EXISTING POWER POLE TO REMAIN.
3. EXISTING POWER LINE TO REMAIN.
4. EXISTING SIGN TO REMAIN.
5. EXISTING MANHOLE TO REMAIN.
6. EXISTING SANITARY LINE TO REMAIN.
7. EXISTING CONCRETE PAD TO REMAIN.
8. EXISTING WATER LINE TO REMAIN.
9. EXISTING GAS LINE TO REMAIN.
10. EXISTING GAS VALVE TO REMAIN.
11. EXISTING HYDRANT TO REMAIN.
12. EXISTING WATER MANHOLE TO REMAIN.
13. CONTRACTOR TO REMOVE, REPLACE, AND ADJUST EXISTING RIM OF STRUCTURE PER GRADING PLAN.

C. KEY NOTES TO BE REMOVED

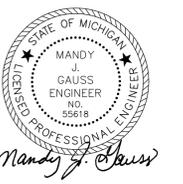
1. EXISTING POWER POLE TO BE REMOVED/RELOCATED AS REQUIRED.
2. EXISTING POWER LINE TO BE REMOVED/RELOCATED AS REQUIRED.
3. EXISTING VEGETATION TO BE REMOVED. REFER TO SHEET L3.0 FOR TREE REMOVAL.
4. EXISTING SPEED LIMIT SIGN TO BE RELOCATED. CONTRACTOR TO COORDINATE REMOVAL, TEMPORARY STORAGE, AND FINAL LOCATION WITH LOCAL AUTHORITY HAVING JURISDICTION.
5. EXISTING DIRECTIONAL SIGN TO BE RELOCATED. CONTRACTOR TO COORDINATE REMOVAL, TEMPORARY STORAGE, AND FINAL LOCATION WITH LOCAL AUTHORITY HAVING JURISDICTION.
6. EXISTING CONCRETE SIDEWALK/PATH PATH TO BE REMOVED WITHIN LIMITS OF DISTURBANCE.
7. GUY WIRE FOR EXISTING POLE TO BE REMOVED & RELOCATED WITH POLE AS NECESSARY.
8. BORE FOR WATERLINE/SANITARY SEWER INSTALLATION. SAWCUT AND REMOVE EXISTING PAVEMENT AT ENTRY AND CONNECTION LOCATION. POST INSTALLATION, RESTORE PAVEMENT TO CITY STANDARDS.

DEMOLITION NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL. THE DEMOLITION, REMOVAL, AND DISPOSAL IS TO BE APPROVED BY ALL GOVERNING AUTHORITIES, OF ALL FACILITIES SUCH AS: STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE, STRUCTURES, UTILITIES, WELLS, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL AS SPECIFIED BY A QUALIFIED PROFESSIONAL GEOTECHNICAL ENGINEER. IF UNDOCUMENTED FACILITIES ARE FOUND ON SITE, CONTRACTOR SHALL CONTACT THE OWNER AND UTILITY COMPANY PRIOR TO REMOVAL. ALL FACILITIES SHALL BE PLUGGED, ABANDONED, OR REMOVED PER STATE AND LOCAL REQUIREMENTS.
2. FEDERAL, STATE AND LOCAL CODE REQUIREMENTS SHALL GOVERN THE DISPOSAL OF DEBRIS INCLUDING ANY POTENTIALLY HAZARDOUS AND TOXIC MATERIALS. ALL MATERIALS AND STRUCTURES DESIGNATED AS "TO BE REMOVED" SHALL BE DISPOSED OF OFF SITE AND AT THE COST OF THE CONTRACTOR.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING JOB SITE SAFETY PER OSHA REQUIREMENTS AT ALL TIMES.
4. PRIOR TO DEMOLITION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL THE STATE 811 AND NOTIFY ALL UTILITY COMPANIES TO SCHEDULE UTILITY SERVICE REMOVAL AND/OR ABANDONMENT. ALL UTILITIES SHALL BE REMOVED/RELOCATED PER THE SPECIFICATIONS OF THE UTILITY COMPANIES. THE CONTRACTOR IS RESPONSIBLE TO PAY ALL FEES AND CHARGES ASSOCIATED WITH THIS WORK.
5. CONTRACTOR SHALL MAINTAIN ALL UTILITY SERVICES TO INHABITED BUILDINGS ON SITE AND ADJACENT PROPERTIES AT ALL TIMES. INTERRUPTIONS SHALL BE APPROVED BY THE OWNERS OF THE BUILDINGS/PROPERTIES.
6. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ONSITE LOCATIONS OF EXISTING UTILITIES. IF THE LOCATION OR ELEVATION OF THE EXISTING UTILITIES ARE FOUND TO BE DIFFERENT FROM THE PLANS, CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
7. CONTRACTOR SHALL PROTECT EXISTING SITE FEATURES TO REMAIN INSIDE AND OUTSIDE CONSTRUCTION LIMITS. CONTRACTOR IS RESPONSIBLE TO DOCUMENT ALL EXISTING DAMAGES AND NOTIFY THE CITY/COUNTY PRIOR TO CONSTRUCTION START. ANY EXISTING SITE FEATURE TO REMAIN THAT IS DAMAGED DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, CURB, ETC. SHALL BE REPAIRED TO A CONDITION THAT IS EQUAL TO, OR BETTER THAN, THE EXISTING CONDITIONS. PRIOR TO BEING DAMAGED, THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST.
8. CONTINUOUS ACCESS SHALL BE MAINTAINED TO THE SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL. ALL TRAFFIC CONTROL MEASURES SHALL BE IN ACCORDANCE WITH STATE DEPARTMENT OF TRANSPORTATION REGULATIONS AND LOCAL REGULATIONS.
10. THE CONTRACTOR IS RESPONSIBLE FOR PLACING AND MAINTAINING CONSTRUCTION FENCE, SIGNS, ETC. TO WARN AND KEEP UNAUTHORIZED PEOPLE OFF SITE FOR THE DURATION OF THE PROJECT.
11. PRIOR TO DEMOLITION, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED PER THE GOVERNING AGENCIES GUIDELINES AND STANDARDS. DUST CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
12. SAWCUT LINE PROVIDED IS FOR REFERENCE ONLY. CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING THE EXTENT OF THE SAWCUT THAT WILL BE REQUIRED AS WELL AS PAVEMENT REPAIRS TO INSTALL UTILITY TRENCHING. IF ANY DAMAGE OCCURS ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THAT WHICH IS NECESSARY TO COMPLETE THE INTENT OF THE PROPOSED IMPROVEMENTS. SAWCUT EXISTING PAVEMENT TO FULL DEPTH, USING CARE TO CUT NEAT, STRAIGHT LINES. CUT AT EXISTING JOINTS WHERE POSSIBLE.
13. THE CONTRACTOR SHALL MAINTAIN A WELL-DRAINED SITE, FREE OF STANDING WATER DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY DRAINAGE MEASURES DURING CONSTRUCTION.
14. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO STUDY THE PLANS AND VISIT THE SITE TO DETERMINE THE ITEMS THAT MUST BE REMOVED TO COMPLY WITH THE SITE DEVELOPMENT PLANS. NO EXTRA FEE WILL BE PAID FOR THE REMOVAL OF ANY ITEM NOT LISTED THAT IS VISIBLE UPON A SITE VISIT. THE DEMOLITION PLAN IS INTENDED TO PRESENT THE SCOPE OF THE DEMOLITION, AND DOES NOT GUARANTEE THAT ALL ITEMS ARE ADDRESSED.
15. THE CONTRACTOR SHALL OBTAIN ALL PERMITS FOR ALL SITE DEVELOPMENT WORK, PAY ALL FEES FOR PERMITS AND CHECK ALL GOVERNING AUTHORITIES' SPECIFICATIONS FOR BUT NOT LIMITED TO, GUTTERS, SIDEWALKS, POLES, AND OTHER STRUCTURES, INCLUDING THE REMOVAL OR RELOCATION OF EXISTING UTILITIES OR OTHER PHYSICAL OBJECTS SHOWN ON PLANS OR NOTED OTHERWISE.
16. THE CONTRACTOR SHALL CREATE AND IMPLEMENT AN EROSION AND SEDIMENTATION CONTROL PLAN FOR ALL SITE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE PROJECT. THE PLAN MUST CONFORM TO THE EROSION AND SEDIMENTATION REQUIREMENTS OF THE CONSTRUCTION GENERAL PERMIT OR LOCAL STANDARDS AND CODES, WHICHEVER IS MORE STRINGENT.
17. ALL COSTS FOR INSPECTIONS AND/OR TESTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS NOTED OTHERWISE. COSTS RELATED TO CITY-PROVIDED SITE UTILITY AND GRADING INSPECTIONS WILL BE THE RESPONSIBILITY OF THE PROPERTY OWNER/DEVELOPER. THE CITY REQUIRES MATERIALS TESTING RESULTS BUT IS NOT RESPONSIBLE FOR PROVIDING ANY MATERIALS TESTING AND WILL NOT PROVIDE A MATERIALS TESTER FOR THE DEVELOPER OR CONTRACTOR.



SEVENTY-TWO (72) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTORS SHALL NOTIFY THE FOLLOWING AGENCIES: MICHIGAN UTILITIES PROTECTION SERVICE AT 811 OR 800-482-7171 AND ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NONMEMBERS OF STATE UTILITIES PROTECTION SERVICE



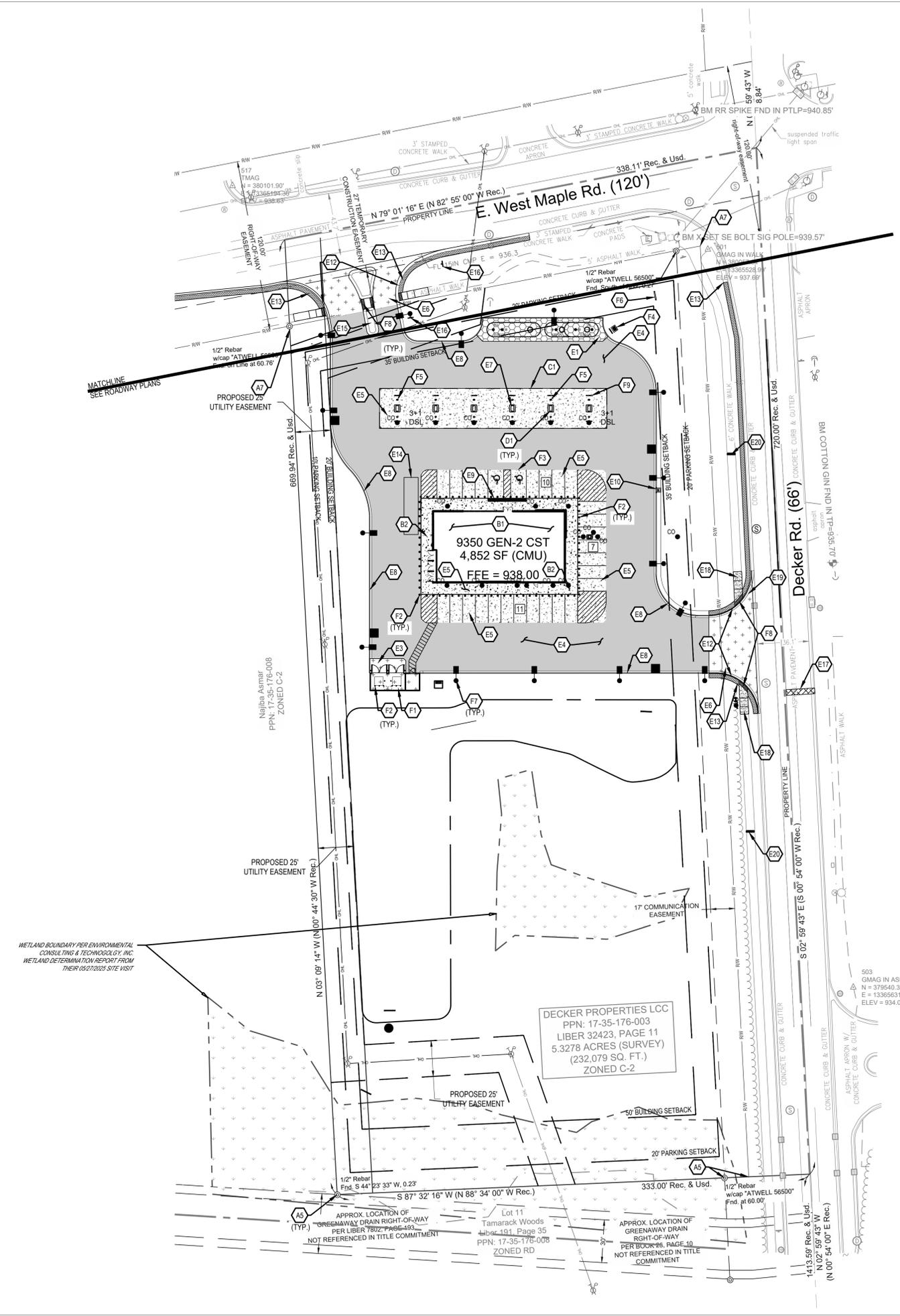
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Project Number: 764078
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 Checked By: MG
 Date: 07/18/2025
 Issue: PERMIT SET

Drawing Title:
DEMOLITION OVERLAY PLAN

CD1

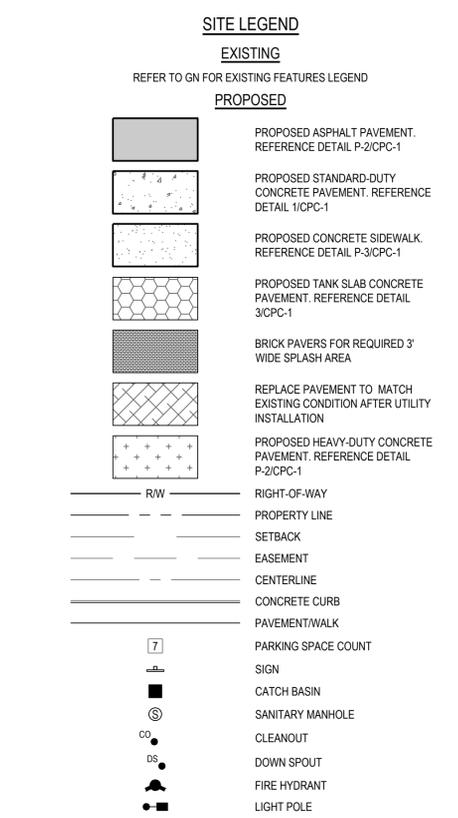


- A. GENERAL NOTES**
- ALL MATERIAL NOTED ON DRAWINGS WILL BE SUPPLIED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
 - RESTORE TO ORIGINAL OR BETTER CONDITION ALL AREAS DISTURBED BY CONSTRUCTION. UPON COMPLETION, POWER WASH ALL PAVING TO OWNER'S SATISFACTION.
 - SHOW ALL MODIFIED PIPING, CONDUIT RUNS, UTILITIES AND ANY MODIFICATIONS MADE TO THE ORIGINAL DRAWINGS ON "AS-BUILT" PRINT AND TURN OVER TO OWNER'S REPRESENTATIVE UPON COMPLETION.
 - TURNOVER MANUAL: ON THE DAY OF THE "TURNOVER" THE CONTRACTOR WILL PROVIDE ONE COPY OF THE COMPLETION MANUALS.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT OF THE ENTIRE SITE. THE PROPERTY CORNERS SHALL BE MARKED BY OWNER AND PROTECTED AND MAINTAINED BY CONTRACTOR.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL WOODEN FORMS PRIOR TO CONSTRUCTION COMPLETION.
 - ALL STORM PIPE SECTION TO BE RODENT GRADED.
- B. BUILDING DETAILS**
- CONSTRUCT C-STORE BUILDING #9350 BUILDING PER ARCHITECTURAL DRAWING. HVAC SYSTEM SHALL BE GAS AND BE ROOF MOUNTED.
 - CONSTRUCT BUILDING SIDEWALK AS SHOWN ON PLOT PLAN AND PER DETAIL 4/PC-1. CONTRACTOR SHALL FOLLOW BUILDING PLAN DETAILS FOR SIDEWALK REINFORCEMENT IN FRONT OF BUILDING ACCESS POINTS.
- C. CANOPY DETAILS**
- COORDINATE WITH VENDOR TO INSTALL NEW AUTO CANOPY PER CANOPY DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR FOOTERS AND INSTALLING VENDOR SUPPLIED ANCHOR BOLTS.
- D. DISPENSER DETAILS**
- INSTALL DISPENSERS PER THE FUELING PLANS PROVIDED BY 7-ELEVEN.
- E. PAVING DETAILS**
- CONSTRUCT NEW CONCRETE TANK SLAB.
 - NOT IN USE.
 - INSTALL HEAVY-DUTY CONCRETE PAVEMENT WITH AN AGGREGATE BASE PER CITY OF WALLED LAKE DETAIL P-2/CPC-1 AND USE THE RECOMMENDATIONS OF GEOTECHNICAL CONSULTANT FOR ALL OTHER SUBSURFACE CONDITIONS ON THIS SITE. NOTIFY THE OWNER'S REPRESENTATIVE IF THERE ARE ANY CONFLICTS.
 - INSTALL STANDARD-DUTY ASPHALT PAVEMENT WITH AN AGGREGATE BASE DETAIL P-2/CPC-1 AND USE THE RECOMMENDATIONS OF GEOTECHNICAL CONSULTANT FOR ALL OTHER SUBSURFACE CONDITIONS ON THIS SITE. NOTIFY THE OWNER'S REPRESENTATIVE IF THERE ARE ANY CONFLICTS.
 - INSTALL STANDARD-DUTY CONCRETE PAVEMENT WITH AN AGGREGATE BASE PER DETAIL 1/CPC-1 AND USE THE RECOMMENDATIONS OF GEOTECHNICAL CONSULTANT FOR ALL OTHER SUBSURFACE CONDITIONS ON THIS SITE. NOTIFY THE OWNER'S REPRESENTATIVE IF THERE ARE ANY CONFLICTS.
 - CONSTRUCT (2) CONCRETE APPROACHES PER STATE AND/OR LOCAL SPECIFICATIONS. REFER TO ROADWAY IMPROVEMENT PLANS FOR E. WEST MAPLE ROAD TAPER LANE AND APPROACH IMPROVEMENTS. REFERENCE CITY OF WALLED LAKE DETAIL P-2/CPC-1.
 - INSTALL (6) NEW CONCRETE DISPENSER ISLANDS WITH 3' X 5' X 13" ISLAND FORM FOR AUTO DISPENSERS.
 - CONSTRUCT F-4 CONCRETE CURB & GUTTER INSIDE PROPERTY LINES PER P-4/PC-2.
 - INSTALL 2'-0" WIDE DETECTABLE WARNING SURFACE ALIGNED ON ACCESSIBLE AISLE PER APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS. DETECTABLE WARNING PLATE MATERIALS SHALL BE PROVIDED FOR CITY REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
 - INSTALL CONCRETE SLAB FOR AIR MACHINE PER DRAWING C/E-A. INSTALL (1) 3/4" CONDUIT AND WIRE PER MANUFACTURER'S RECOMMENDATIONS. VERIFY INSTALLATION DETAILS WITH VENDOR.
 - BID AS ALTERNATE; PROVIDE A PRICE TO SUBSTITUTE CONCRETE PAVEMENT FOR ASPHALT PAVEMENT AND PROTECT FOR COLD WEATHER INSTALLATION. IF CONTRACTOR MOVES FORWARD WITH ALTERNATE, APPROVAL FROM CITY OF WALLED LAKE IS REQUIRED PRIOR TO START OF CONSTRUCTION.
 - CONSTRUCT CAST IN PLACE CONCRETE CURB AND GUTTER ALONG APPROACH TO MATCH EXISTING CURB & GUTTER AND MUST MEET GOVERNING CITY AND/OR COUNTY STANDARDS.
 - INSTALL 3' PAVEMENT SPLASH SURFACE AREA TO MATCH EXISTING PAVERS.
 - 10' X 40' LOADING ZONE
 - CONSTRUCT RIGHT-IN/RIGHT-OUT DRIVEWAY IN ACCORDANCE WITH ROAD COMMISSION OF OAKLAND COUNTY (RCOC) OR MDOT GEO-680-B AS APPROVED BY RCOC. MEDIAN CURB TO BE IN ACCORDANCE WITH ROAD COMMISSION OF OAKLAND COUNTY (RCOC) OR MDOT TYPE D PER MDOT DETAIL R-30-G AS APPROVED BY RCOC.
 - NO LEFT TURN SIGN.
 - CONTRACTOR TO REPAIR ANY DAMAGE WITHIN ROW CAUSED BY WATERLINE INSTALLATION.
 - INSTALL PROPOSED SIDEWALK IN RIGHT-OF-WAY PER CITY OF WALLED LAKE DETAIL P-3 ON SHEET CPC-1. SIDEWALK APPROACH RAMPS SHALL HAVE A MINIMUM 6" THICK CONCRETE.
 - CONTRACTOR TO HAVE PROPER SIGNAGE AND TRAFFIC CONTROL IN PLACE TO MAINTAIN TRAFFIC WHILE PERFORMING WORK WITHIN DECKER ROAD RIGHT-OF-WAY.
 - SIDEWALK TO BE CLOSED DURING CONSTRUCTION OF ACCESS DRIVE ON DECKER ROAD. CONTRACTOR TO INSTALL R9-9 SIGNAGE WHEN WORK IS OCCURRING (REFERENCE E. WEST MAPLE ROAD PLANS FOR PROPOSED SIGN).

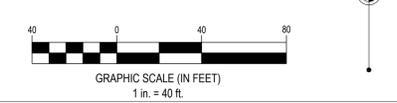
- F. YARD AREA DETAILS**
- CONSTRUCT DUMPSTER ENCLOSURE AND COLLECTION PAD WITH ATTACHED STORAGE SHED AND RELATED WIRING AND CONDUITS. REFER TO ARCHITECTURAL DRAWING A1.3 FOR DETAILS. GATE SHALL BE CEDAR FENCE BOARDS. ENCLOSURE SHALL BE CMU WALL. MATCH BUILDING FINISH IF MASONRY WALL IS REQUIRED.
 - SUPPLY AND INSTALL 6" BOLLARDS PER STORE FRONT GUARD BOLLARD DETAIL 1/CYE-A AND SS SERIES DRAWING. HOPE BOLLARD COVER TO BE BLACK COLOR.
 - PAINT INDICATED ACCESSIBLE PARKING STALLS AND INSTALL SIGNAGE PER APPLICABLE CODES. PAINT ALL OTHER PARKING STRIPES PRO PARK WATERBORNE YELLOW (B97YD2467). REFER TO DET-1 FOR ACCESSIBLE SPACE STRIPING AND SIGNAGE.
 - INSTALL VENT PIPES PER FUEL DRAWINGS.
 - PROVIDE AND INSTALL CODE APPROVED FIRE EXTINGUISHERS (1 MINIMUM) WITH PLASTIC BOX HOLDER IN APPROVED LOCATIONS AS REQUIRED BY LOCAL FIRE OFFICIALS. FIRE EXTINGUISHERS ARE OWNER SUPPLIED AND VENDOR INSTALLED, AND SHALL BE LOCATED SUCH THAT AN EXTINGUISHER IS NOT MORE THAN 75 FEET FROM PUMPS, DISPENSERS, OR STORAGE TANK FILL OPENINGS. FIRE EXTINGUISHER MINIMUM RATINGS SHALL BE 2-A-20-B-C.
 - PROPOSED 50 SQ. FT., 20' TALL PYLON SIGN. REFER TO ARCHITECTURAL/SIGNAGE PLANS.
 - PROPOSED LIGHT POST. REFER TO PHOTOMETRIC PLAN FOR DETAILS.
 - CONSTRUCT RAMP WITH DETECTABLE WARNING SURFACE IN CONCRETE WALK PER APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
 - PROPOSED U-SHAPED ISLAND GUARD POST PER DETAIL 2/CYE-A, TYP.

PROPOSED AREAS:

UNITS	ACRES	SQ. FT.
EXISTING SITE:	4.87	212,137
PROPOSED SITE:	4.87	212,137
BUILDING:	0.11	4,853
ASPHALT PAVEMENT:	0.76	33,157
CONCRETE PAVEMENT:	0.36	15,793
TOTAL IMPERVIOUS	1.23	53,803



CONTRACTOR SHALL REVIEW THE COMPLETE DRAWING SET AND NOTIFY THE DESIGN PROFESSIONAL IN WRITING PRIOR TO CONSTRUCTION, IF ANY DISCREPANCIES ARE FOUND WITHIN THE DRAWINGS OR WITH ACTUAL FIELD CONDITIONS.



SEVENTY-TWO (72) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTORS SHALL NOTIFY THE FOLLOWING AGENCIES: MICHIGAN UTILITIES PROTECTION SERVICE AT 811 OR 800-492-7171 AND ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NONMEMBERS OF STATE UTILITIES PROTECTION SERVICE



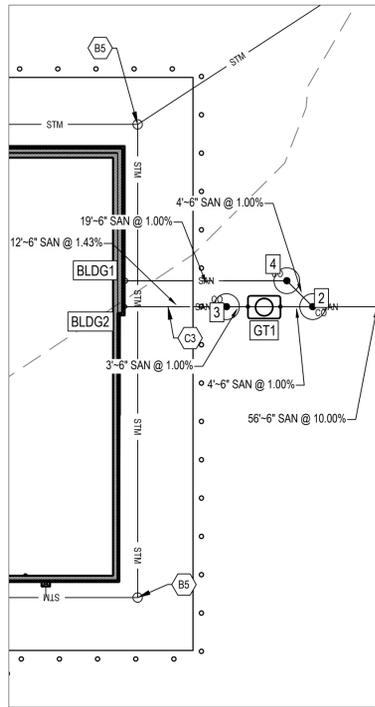
7-ELEVEN, INC.
WALLED LAKE
 1700 E. WEST MAPLE ROAD
 WALLED LAKE, MICHIGAN 48390

Revisions / Submissions

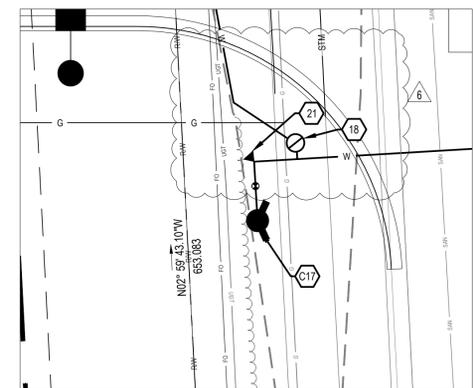
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5	AHJ COMMENTS	2025/07/01
6	OAKLAND WRC COMMENTS	2025/08/15

Project Number: 764078
 Scale: 1"=40'
 Drawn By: KI
 Checked By: MG
 Date: 07/18/2025
 Issue: PERMIT SET

Drawing Title:
SITE PLAN
CS

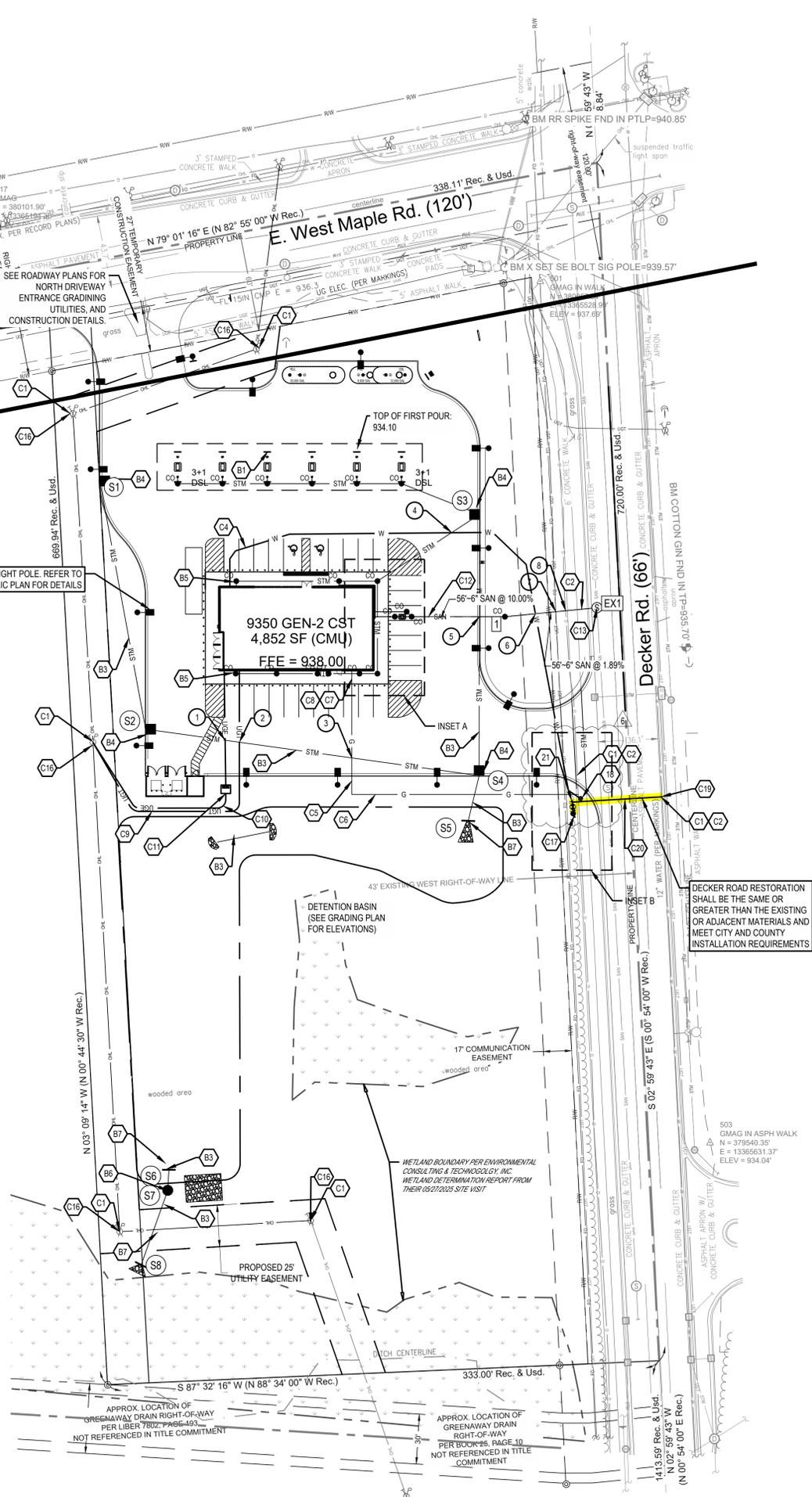


INSET A
1" = 10'



INSET B
1" = 10'

UTILITY CROSSING SCHEDULE			
NO.	UTILITY	ELEVATIONS	DIFF.
1	BOTTOM OF PROPOSED UNDERGROUND ELECTRIC	934.72	1.5
	TOP OF PROPOSED 12" STORM	933.22	
2	BOTTOM OF PROPOSED UNDERGROUND TELECOMMUNICATIONS	934.76	1.5
	TOP OF PROPOSED 12" STORM	933.26	
3	BOTTOM OF PROPOSED UNDERGROUND GAS LINE	934.45	1.5
	TOP OF PROPOSED 12" STORM	932.95	
4	BOTTOM OF PROPOSED 2" WATERLINE	934.23	1.0
	TOP OF PROPOSED 6" STORM	933.23	
5	BOTTOM OF PROPOSED 12" STORM	932.20	1.4
	TOP OF PROPOSED 6" SANITARY	930.80	
6	BOTTOM OF PROPOSED 2" WATERLINE	930.34	1.5
	TOP OF PROPOSED 6" SANITARY	928.84	
7	EXISTING TELECOMMUNICATIONS LINE	N/A	N/A
	TOP OF PROPOSED 6" SANITARY	928.58	
8	EXISTING GAS LINE	N/A	N/A
	TOP OF PROPOSED 6" SANITARY	928.45	



UTILITY CROSSING NOTES

- WATER AND SANITARY UTILITIES SHALL HAVE 18" VERTICAL CLEARANCE WHEN CROSSING. ALL CLEARANCE DISTANCES SHALL BE MEASURED FROM OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE. THE CROSSING SHALL BE ARRANGED SO THAT THE SANITARY SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER LINE JOINTS.
- IF A WATER LINE PASSES UNDER THE SANITARY SEWER LINE, THE SEWER LINE SHOULD BE CONSTRUCTED OF A WATERTIGHT MATERIAL APPROVED BY THE REGULATORY AGENCY FOR USE IN WATER MAIN CONSTRUCTION AND SHALL EXTEND TEN (10) FEET ON BOTH SIDES OF THE CROSSING, AS MEASURED.
- MINIMUM REQUIREMENTS FOR UTILITY LINES CROSSING OVER PRODUCT LINES OR WITHIN 10 FT OF USTs:
 - WATER (POTABLE); NO CROSSINGS ALLOWED
 - STORM, SANITARY & WATER (FIRE OR IRRIGATION); SEALED JOINT (IF UNDER PRODUCT LINES) OR THE MIDDLE POINT OF UTILITY PIPE EQUALS THE CENTERLINE OF THE PRODUCT LINES, PUTTING THE JOINTS OF THE UTILITY PIPE OUTSIDE OF THE PRODUCT LINES.
 - GAS, ELECTRIC & DATA (PHONE, CABLE, FIBER); PROTECT UTILITY WITH A CONCRETE ENCASEMENT FOR AT LEAST 10' BEYOND BOTH OF THE OUTSIDE EDGES OF PRODUCT LINES.
 - THE MINIMUM VERTICAL CLEARANCE BETWEEN CROSSING UTILITY LINES SHALL BE THE MORE RESTRICTIVE OF EITHER 1 FEET OR THE UTILITY LINE/PIPE MANUFACTURER RECOMMENDATIONS.
 - A SOLID SECTION OF WATER MAIN (WATERMAIN JOINTS) SHALL BE A MINIMUM OF 10' AWAY FROM SANITARY UTILITY CROSSINGS.

UTILITY LEGEND

EXISTING	
REFER TO GN FOR EXISTING FEATURES LEGEND	
PROPOSED	
[Symbol]	BUILDING
[Symbol]	CONCRETE CURB
[Symbol]	PAVEMENT/WALK
[Symbol]	STORM SEWER LINE
[Symbol]	SANITARY SEWER LINE
[Symbol]	DOMESTIC WATER SERVICE LINE
[Symbol]	GAS SERVICE LINE
[Symbol]	OVERHEAD ELECTRIC LINE
[Symbol]	UNDERGROUND ELECTRIC LINE
[Symbol]	FORCEMAIN
[Symbol]	UNDERGROUND TELEPHONE LINE
[Symbol]	OVERHEAD TELEPHONE LINE
[Symbol]	CATCH BASIN
[Symbol]	SANITARY SEWER
[Symbol]	CURB INLET
[Symbol]	CLEANOUT
[Symbol]	YARD DRAIN
[Symbol]	DOWNSPOUT
[Symbol]	ELECTRICAL TRANSFORMER PAD
[Symbol]	FIRE HYDRANT
[Symbol]	WATER VALVE
[Symbol]	HEADWALL WITH RIP-RAP
[Symbol]	LIGHT POLE

SANITARY SEWER STRUCTURE SCHEDULE			
NO.	STRUCTURE	RIM	INVERT
1	6" CLEANOUT	936.17	928.65 (6") W 928.65 (6") E
		937.56	934.27 (6") W 934.27 (6") E 934.31 (6") NW
		937.79	934.33 (6") E 934.50 (6") W
2	6" CLEANOUT	937.63	934.31 (6") W 934.27 (6") SE
		934.19	934.50 (6") E
3	6" BLDG CONNECTION	934.69	934.33 (6") E
		934.83	934.30 (6") W 934.30 (6") E
4	EXISTING MANHOLE	935.19	927.59 (6") W
5	GREASE TRAP	934.83	934.30 (6") W 934.30 (6") E

A. TANKS AND PRODUCT PIPING DETAILS

- CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AS INDICATED ON FUEL DRAWINGS.
- ALL NEW INSTALLATIONS AND MODIFICATIONS TO THE UNDERGROUND STORAGE TANK SYSTEM SHALL COMPLY WITH PEI RP100-05, PEI RP300-09, API RP1615 AND ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
- TANKS SHALL BE ANCHORED PER FUEL DRAWINGS.
- BALLAST TANKS TO 90% FULL WITH CLEAN WATER. AFTER THE TANKS HAVE BEEN PROPERLY COVERED BY OVERBURDEN AND BEFORE PRODUCT IS DELIVERED, THE CONTRACTOR SHALL REMOVE ALL WATER. COORDINATE WITH OWNER'S REPRESENTATIVE FOR DELIVERY OF PRODUCT. ANY WATER REMAINING IN TANKS AFTER PRODUCT DELIVERY SHALL BE REMOVED AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
- PRIME AND PAINT FILL, VAPOR RECOVERY, AND OBSERVATION WELL MANHOLE COVERS AND RIMS PER COLOR CODE IN SPECIFICATIONS. ANY MANHOLES OR STREET BOXES NOT COLOR SPECIFIED SHALL BE PRIMED AND PAINTED DARK GREY #430C PER SPECIFICATIONS.
- INSTALL TANK CONDUIT FROM TANK TO DISPENSER ELECTRICAL EQUIPMENT INSIDE BUILDING PER FUEL DRAWINGS AND MANUFACTURER'S INSTRUCTIONS.
- INSTALL EVO LINE LEAK DETECTION AND ATG SYSTEM, RELATED MANHOLES, CONDUITS, AND JUNCTION BOXES PER FUEL DRAWINGS AND MANUFACTURER'S INSTRUCTIONS. INSTALL TANK INTERSTITIAL SENSORS FURNISHED BY OWNER. CONTRACTOR TO BE CERTIFIED BY FRANKLIN FILING.
- INSTALL TANK SUMP SENSORS FURNISHED BY OWNER.
- PRODUCT PIPING LINE-UP AND FRONT SIDE "A" (F.S. "A") OF DISPENSERS SHALL BE AS SHOWN. PIPING AND CONDUIT LOCATION AND SPACING UNDER DISPENSERS SHALL BE PER FUEL DRAWINGS.
- INSTALL 2" COAXIAL FLEXIBLE PRODUCT PIPING (OPW FLEX LOOP SYSTEM) WITHIN 4' ACCESS/CONTAINMENT PIPE PER MANUFACTURER'S RECOMMENDATIONS AND FUEL DRAWINGS. THE PIPE, APPURTENANCES (INCLUDING BULKHEAD ENTRY FITTINGS), AND MISC. MATERIALS NECESSARY TO ASSEMBLE SYSTEM SHALL BE OWNER SUPPLIED.
- INSTALL A SECOND FILL PIPE ON TANKS PER DETAILS ON THE FUEL DRAWINGS.
- SUPPLY AND INSTALL 2" SINGLEWALL FIBERGLASS VENT LINES AND RELATED EQUIPMENT. CONTRACTOR TO LOCATE VENT STACKS A MINIMUM OF 10' AWAY FROM ELECTRICAL EQUIPMENT AND EXISTING BUILDING STRUCTURES.
- FUTURE FUEL LINE TO BE RUN TO EACH DISPENSER. LINE IS TO BE CAPPED AT EACH DISPENSER WHERE THE LINE IS NOT BEING USED (AND IN FUTURE FUEL SUMP).
- CONTRACTOR TO PROTECT THE PROPOSED STORM AND SANITARY SEWERS CROSSING THE PRODUCT PIPING WITH A CONCRETE ENCASEMENT A MINIMUM OF 10' BEYOND BOTH OUTSIDE EDGES OF THE PRODUCT LINES.

B. STORM PIPING

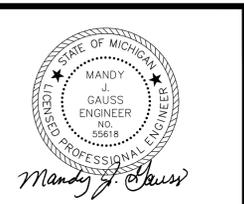
- A CLEANOUT SHALL BE INCLUDED AT EVERY CANOPY COLUMN WITH A DOWNSPOUT THAT IS CONNECTED TO THE STORM DRAINAGE SYSTEM AS INDICATED PER DRAWING SCB-1.
- BUILDING DOWNSPOUTS SHALL BE CONNECTED TO STORM DRAINAGE SYSTEM AS INDICATED.
- SUPPLY AND INSTALL C-76, CLASS IV, RCP STORM DRAINAGE PIPING AS SHOWN PER STANDARD DRAWING SERIES CUD.
- SUPPLY AND INSTALL (4) CATCH BASINS, WITH SPIDER DRAINS, INCLUDING CONCRETE COLLAR IF IN ASPHALT PAVEMENT.
- SUPPLY AND INSTALL CLEAN OUTS AT LOCATIONS SHOWN PER DRAWING SCB-1.
- SUPPLY AND INSTALL (1) OUTLET CONTROL STRUCTURE PER DETAIL ON CG.
- SUPPLY AND INSTALL (3) END SECTIONS PER DETAIL ON DET-1 AND RIPRAP PER DETAIL ON SHEET CPC-2.
- CONTRACTOR TO INSTALL AT STORM PIPE END SECTIONS SHALL BE RODENT GRATED PER MDO DET-1 R92-C ON SHEET DET-1

C. UTILITIES

- VERIFY ALL SERVICE UTILITY ROUTINGS WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. VERIFY ALL UTILITY CLEARANCES ARE MAINTAINED PER LOCAL CODE.
- ALL WORK WITHIN RIGHT-OF-WAY SHALL CONFORM TO GOVERNING STATE AND/OR LOCAL SPECIFICATIONS.
- SITE CONTRACTOR TO BRING UTILITIES WITHIN 5' OF BUILDING AT LOCATIONS SHOWN. STORM AND SANITARY LEADS TO EXTEND INTO BUILDING. COORDINATE ALL BUILDING UTILITY CONNECTIONS WITH BUILDING DRAWINGS.
- CONTRACTOR SHALL COORDINATE WITH THE CITY AND OCWRG THE FURNISHING AND INSTALLATION OF THE 2" COPPER WATER LINE FROM METER TO PROPOSED 8-INCH WATERMAIN. CONTRACTOR SHALL COORDINATE INSTALLATION WITH WATER COMPANY.
- CONTRACTOR SHALL FURNISH AND INSTALL 1/2" GAS LINE FROM METER TO NEW TAP. THE CONTRACTOR SHALL INSTALL THE GAS LINE FROM THE METER TO THE BUILDING SERVICE PER THE BUILDING DRAWINGS AND AT LEAST 36 INCHES BELOW FINISH GRADE. IF NATURAL GAS PIPING IS INSTALLED LESS THAN 36 INCHES BELOW FINISH GRADE, INSTALL IT IN CONTAINMENT CONDUIT. CONTRACTOR SHALL COORDINATE INSTALLATION WITH GAS COMPANY.
- INSTALL UNDERGROUND, PE, NATURAL-GAS PIPING ACCORDING TO ASTM D2774.
- INSTALL SHUTOFF VALVE DOWN STREAM FROM GAS METER AND OUTSIDE OF BUILDING AT GAS SERVICE ENTRANCE.
- INSTALL SERVICE METERS TO COMPLY WITH GAS COMPANY REQUIREMENTS.
- UNDERGROUND, NATURAL GAS PIPING SHALL BE PE PIPE AND FITTINGS JOINED BY HEAT FUSION OR MECHANICAL COUPLINGS. SERVICE-LINE RISERS WITH TRACER WIRE TERMINATED IN AN ACCESSIBLE LOCATION.
- CONTRACTOR SHALL FURNISH AND INSTALL (1) 2" PVC CONDUIT WITH PULL STRING FROM TELEPHONE SERVICE CONNECTION TO BUILDING.
- NEW UNDERGROUND 120/208V THREE PHASE ELECTRIC SERVICE SHALL BE INSTALLED PER BUILDING DRAWINGS. CONTRACTOR SHALL INSTALL CONDUITS AND CONDUCTORS FROM PAD MOUNTED TRANSFORMER TO BUILDING.
- INSTALL 6" PVC SANITARY SEWER LINE FROM BUILDING TO APPROPRIATE SERVICE LATERAL PER FIELD CONDITIONS. MINIMUM SLOPE SHALL BE 1.0%. INSTALL CLEAN OUTS EVERY 100' ALONG SEWER LINE.
- OCWRG STANDARDS FOR SANITARY SEWER LEAD INSTALLATION AND CONNECTIONS ARE REQUIRED. VERIFY WITH THE OCWRG THAT CONNECTION MAY OCCUR AT AN EXISTING SANITARY MANHOLE OR WHETHER CONNECTION SHALL BE MADE TO EXISTING SEWER TAP OR WHETHER A NEW IN-LINE TAP IS REQUIRED.
- INSTALL EXTERIOR GREASE TRAP PER DRAWING CUD-1 AND/OR LOCAL REGULATIONS.
- CONTRACTOR TO VERIFY EXISTING SANITARY LATERAL IS CLEANED PRIOR TO CONNECTION. CONTRACTOR TO WYE INTO EXISTING SANITARY LATERAL WITH NEW CONNECTION.
- CONTRACTOR TO COORDINATE WITH OWNER'S REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR RELOCATION OF UTILITY POLES AND UTILITY LINES.
- PROPOSED FIRE HYDRANT. TO BE LOCATED WITHIN RIGHT-OF-WAY. SEE SHEET DET-1 FOR DETAIL.
- PROPOSED STOP BOX PER OAKLAND COUNTY WATER RESOURCES COMMISSION DETAIL AND SPECIFICATIONS.
- TAP AND VALVE LOCATION TO TIE IN PROPOSED 8" DI WATER MAIN TO EXISTING 12" WATER MAIN. PROVIDE A GATE WELL AT THIS LOCATION PER WRC GATE WELL DETAIL ON SHEET DET-2 FOR DETAIL.
- CONTRACTOR TO BORE PROPOSED 8" DI WATER MAIN TO EXISTING 12" WATER MAIN IN DECKER ROAD. PROPOSED 8" WATER MAIN TO BE INSTALLED PER CITY OF WALLED LAKE SPECIFICATIONS AND SHALL BE PERMITTED BY THE COUNTY (WRC) AND STATE (EGLE).
- THRUST BLOCKING PER DETAIL ON SHEET DET-1.



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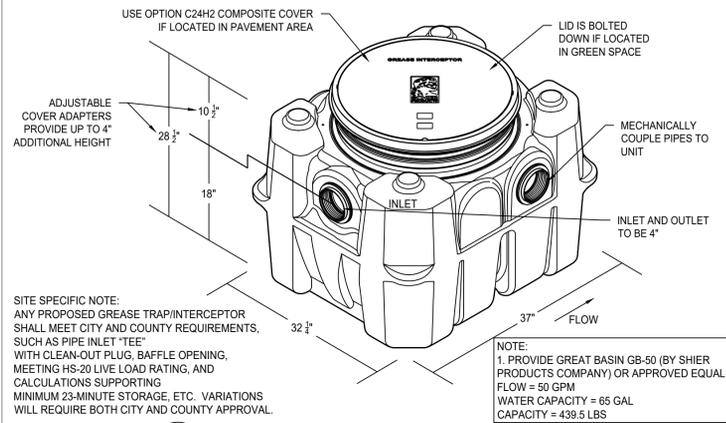
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Project Number: 764078
Scale: 1"=40'
Drawn By: KI
Checked By: MG
Date: 07/18/2025
Issue: PERMIT SET

Drawing Title:
UTILITY PLAN
CU

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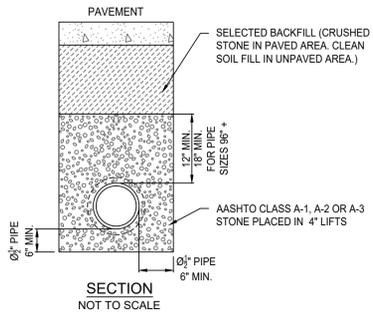


8 EXTERIOR GREASE INTERCEPTOR
NOT TO SCALE

SITE SPECIFIC NOTE:
ANY PROPOSED GREASE TRAP/INTERCEPTOR SHALL MEET CITY AND COUNTY REQUIREMENTS, SUCH AS PIPE INLET "TEE" WITH CLEAN-OUT PLUG, BAFFLE OPENING, MEETING HS-20 LIVE LOAD RATING, AND CALCULATIONS SUPPORTING MINIMUM 23-MINUTE STORAGE, ETC. VARIATIONS WILL REQUIRE BOTH CITY AND COUNTY APPROVAL.

NOTE:
1. PROVIDE GREAT BASIN GB-50 (BY SHIER PRODUCTS COMPANY) OR APPROVED EQUAL. FLOW = 50 GPM. WATER CAPACITY = 65 GAL. CAPACITY = 439.5 LBS.

6 PIPE BEDDING
NOT TO SCALE



GEOTEXTILE FABRIC SPECIFICATIONS

8 OZ. NONWOVEN NEEDLE PUNCHED FABRIC; AMOCO 4553, PHILLIPS SUPAC 8NP, OR EQUAL

GENERAL NOTES:

- ALL STORM AND SANITARY PIPING SHALL BE THE SIZE AND TYPE SHOWN ON THE GRADING OR PIPING PLAN, AND SHALL CONFORM TO THE ASTM AND AASHTO STANDARD SPECIFICATIONS LISTED HERE, UNLESS OTHERWISE REQUIRED BY GOVERNING AUTHORITIES.
- CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF 7-ELEVEN'S SPECIFICATIONS.
- CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES PRIOR TO STARTING ANY BELOW GRADE WORK TO LOCATE UNDERGROUND FACILITIES.
- ALL SANITARY SEWERS SHALL HAVE "PREMIUM" SEALED JOINTS. STORM SEWERS WITHIN 20' OF HYDROCARBON PRODUCT PIPING OR UNDERGROUND TANKS SHALL HAVE "PREMIUM SEALED JOINTS."
- THE PIPE INVERT SHALL BE STRAIGHT LINE GRADED BETWEEN ELEVATIONS SHOWN ON THE PLAN.
- PIPE SHALL BE LAID FROM THE LOWER ELEVATION TO THE HIGHER ELEVATION.
- CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS PRIOR TO BEGINNING WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
- PIPING TO BE MIN. 12" BELOW TOP OF RIGID PAVEMENT, BOTTOM OF FLEXIBLE PAVEMENT, OR FINISHED GRADE IN NON-TRAFFIC AREAS. APPLICABLE AASHTO OR AISI GUIDELINES SHALL OVERRIDE AND GOVERN MINIMUM COVER HEIGHTS WHEN GREATER THAN STATED ABOVE.
- SEE DRAWING # SCB-1 FOR CANOPY DOWNSPOUT DRAIN DETAILS.

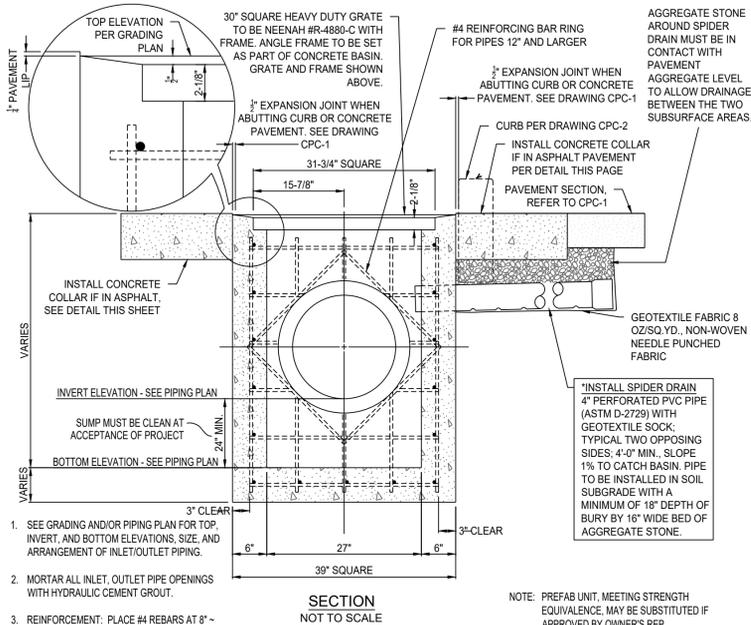
MINIMUM DEPTH OF BURY:
(SEE NOTE #8)
PVC 18"
RCP 12"
HDPE 18"

7 GEOTEXTILE FABRIC
NOT TO SCALE

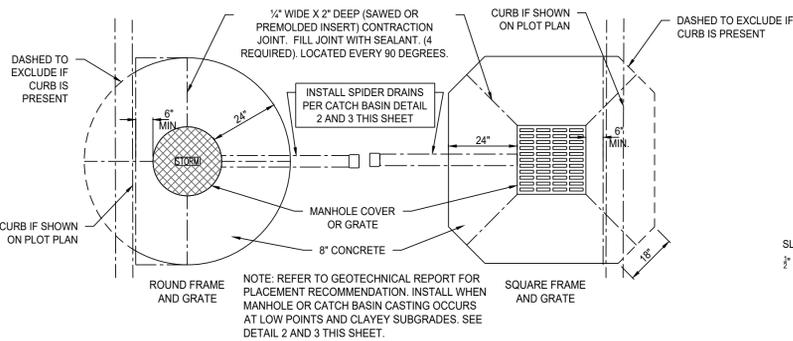
NOTE:
ONLY APPLICABLE MATERIALS PER OCWRC SHALL BE PERMITTED, AS REQUIRED AND AS PROVIDED IN THIS PIPE SPECIFICATIONS TABLE.

PIPE SPECIFICATIONS						
TYPE OF PIPE	"I" VALUES	SIZES PERMITTED	SERVICE AND USE	PIPE SPECIFICATION	INSTALLATION SPECIFICATION	JOINT SPECIFICATION
POLY-VINYL CHLORIDE (PVC)	0.01	6"	SANITARY SEWER	ASTM D-3034 SDR 35	ASTM D-2321 STANDARD PRACTICE FOR INSTALLATION OF FLEXIBLE THERMOPLASTIC SEWER PIPE	ASTM D-3212 STANDARD SPECIFICATION FOR JOINTS FOR DRAIN AND SEWER PLASTIC PIPES USING FLEXIBLE ELASTOMERIC SEALS
		8" - 12"	STORM DRAINAGE	STANDARD SPECIFICATION FOR TYPE PSM PVC SEWER PIPE AND FITTINGS	PIPE BEDDING PER DETAIL	ASTM F-477 ELASTOMERIC SEALS FOR JOINING PLASTIC PIPE (OIL RESISTANT) HIGH NITRILE (NBR), EPICHLOROHYDRIN (ECO), NEOPRENE (CR), POLYSULFIDE (T), OR FLUORO ELASTOMER (FPM)
REINFORCED CONCRETE (RCP)	0.013	0.12" AND LARGER	STORM DRAINAGE	ASTM C-76, ASTM C1479 CLASS 4, WALL B-TONGUE AND GROOVE STANDARD SPECIFICATION FOR REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE	PIPE BEDDING PER DETAIL	BITUMINOUS MASTIC
				STANDARD SPECIFICATION FOR REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE	WHEN OUTLETTING TO SURFACE GRADE FLARED END SECTION MUST BE USED	ASTM C-443 STANDARD SPECIFICATION FOR JOINTS FOR CIRCULAR CONCRETE SEWER AND CULVERT PIPE USING RUBBER GASKETS (OIL RESISTANT)
SMOOTH LINED CORRUGATED HDPE N-12 BY ADVANCED DRAINAGE SYSTEMS (800) 733-8554 SURE-LOK BY HANCOR (800) 537-9520	0.012	8" AND LARGER	STORM DRAINAGE	AASHTO M294-S	ASTM D-2321 PIPE BEDDING PER DETAIL	STANDARD COUPLERS (PRO LINK) USE GASKET IN FINE SOILS
		12" AND LARGER	STORM DRAINAGE	AASHTO M294-S	ASTM D-2321 PIPE BEDDING PER DETAIL	PVC DOUBLE BELL COUPLER WITH GASKET (PRO LINK 10.8) AVAILABLE THROUGH 24" BELL & SPIGOT WITH GASKET (SURE-LOK) AVAILABLE THROUGH 30"
DUCTILE IRON (DI)	0.012	4" - 12"	SPECIAL	ASTM A-746 CLASS 50 STANDARD SPECIFICATION FOR DUCTILE IRON GRAVITY SEWER PIPE	PIPE BEDDING PER DETAIL	RUBBER GASKET COMPRESSION TYPE JOINT
				STANDARD SPECIFICATION FOR CORRUGATED POLYETHYLENE TUBING AND FITTINGS	SEE UNDERDRAIN DETAIL	STANDARD COUPLINGS
CORRUGATED METAL PIPE (CMP)	0.022	0.12" AND LARGER	STORM DRAINAGE	ASTM A-780 STANDARD SPECIFICATION FOR CORRUGATED METAL PIPE, METALLIC-COATED FOR SEWERS AND DRAINS	ASTM A-807 STANDARD SPECIFICATION FOR INSTALLING CORRUGATED METAL STRUCTURAL PLATE PIPE FOR SEWERS	STANDARD COUPLINGS
				STANDARD SPECIFICATION FOR CORRUGATED POLYETHYLENE TUBING AND FITTINGS	SEE UNDERDRAIN DETAIL	STANDARD COUPLINGS
HIGH PERFORMANCE (HP) PIPING	0.012	12" - 60"	STORM DRAINAGE	AASHTO M330 ASTM F2881	ASTM D2321	WATER TIGHT ASTM D-3212

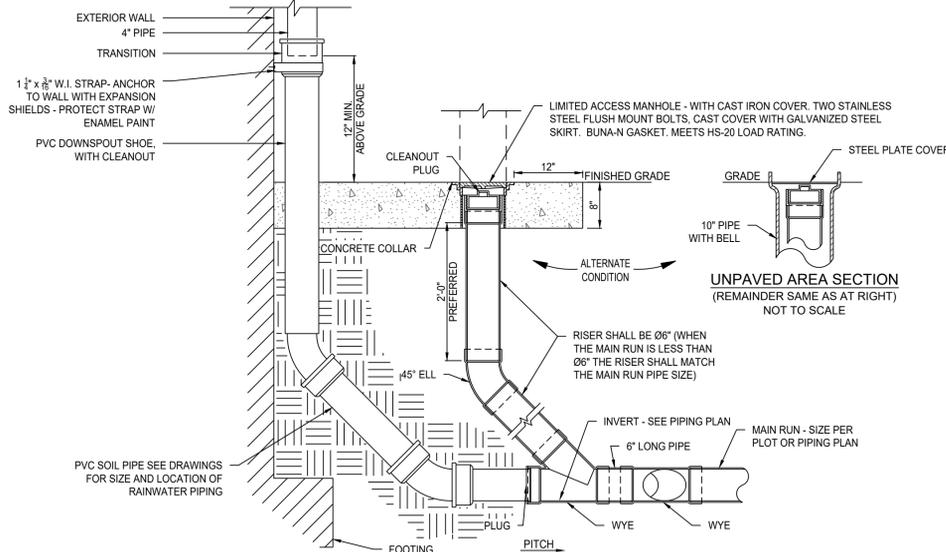
9 PIPE SPECIFICATIONS
NOT TO SCALE



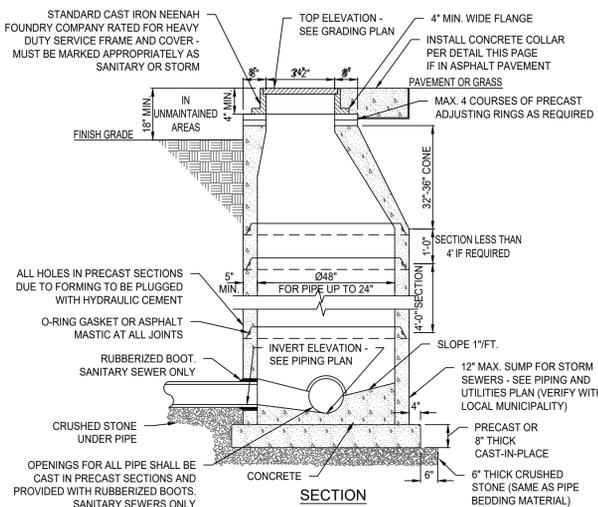
3 HEAVY-DUTY CATCH BASIN
NOT TO SCALE



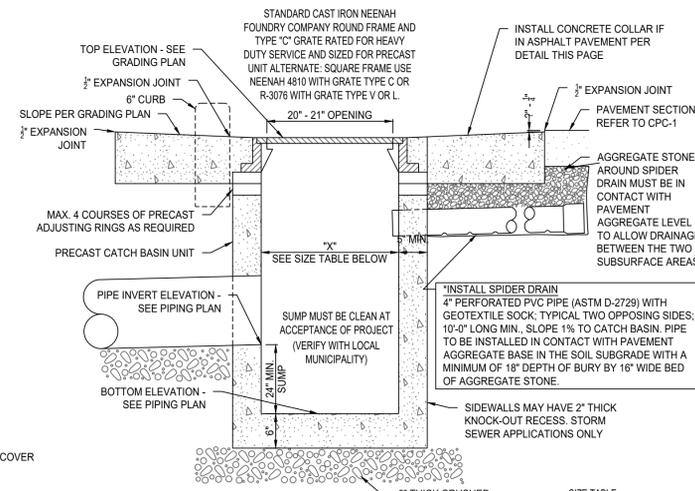
4 STORM STRUCTURE CONCRETE COLLARS
NOT TO SCALE



5 DOWNSPOUT BOOT AND UTILITIES PIPE CLEAN-OUT
NOT TO SCALE



1 STANDARD MANHOLE
NOT TO SCALE



- THE PRECAST CATCH BASIN UNIT SHALL CONFORM TO THE APPLICABLE STANDARD STATE D.O.T. SPECIFICATIONS AND ASTM C913. THE UNIT SHALL BE PROPERLY REINFORCED TO PREVENT DAMAGE DURING TRANSPORT AND INSTALLATION.
- SEE GRADING AND/OR PIPING PLAN FOR TOP, INVERT, AND BOTTOM ELEVATIONS, SIZE, AND ARRANGEMENT OF INLET/OUTLET PIPING.
- MORTAR ALL INLET, OUTLET PIPE OPENINGS WITH HYDRAULIC CEMENT GROUT.
- ADDITIONAL MASONRY BRICK OR BLOCK WORK IS NOT PERMITTED TO MEET SURFACE ELEVATION.

SIZE TABLE			
LARGEST PIPE DIA.	"X" SQUARE C.B.	LARGEST PIPE DIA.	"X" ROUND C.B.
21"	24"	15"	30"
33"	36"	24"	42"
42"	48"	30"	48"
54"	60"	36"	60"
60"	72"	48"	72"

NOTE: TRAFFIC RATED REINFORCED PRE-CAST CONCRETE TOP TO BE USED WITH LARGER CATCH BASINS.
VERIFY STRUCTURE SIZE IS ADEQUATE FOR MULTIPLE PIPES AND PIPE ANGLES.

2 STANDARD-DUTY CATCH BASIN
NOT TO SCALE

TO BE USED IN STANDARD-DUTY PAVEMENT AREAS ONLY.



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WALLED LAKE, MICHIGAN 48390

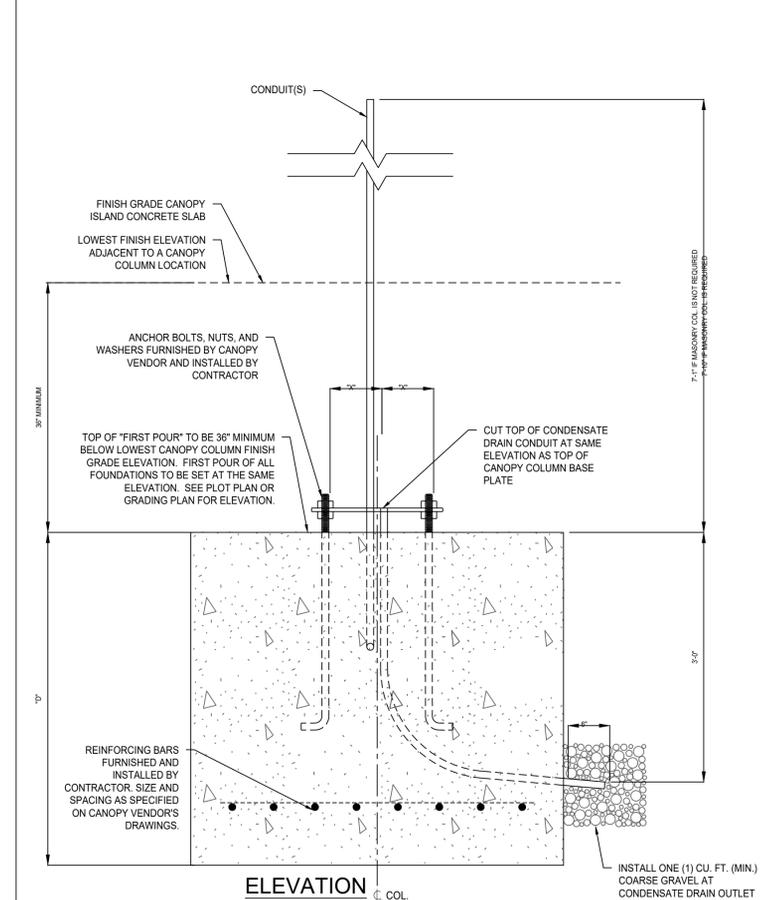
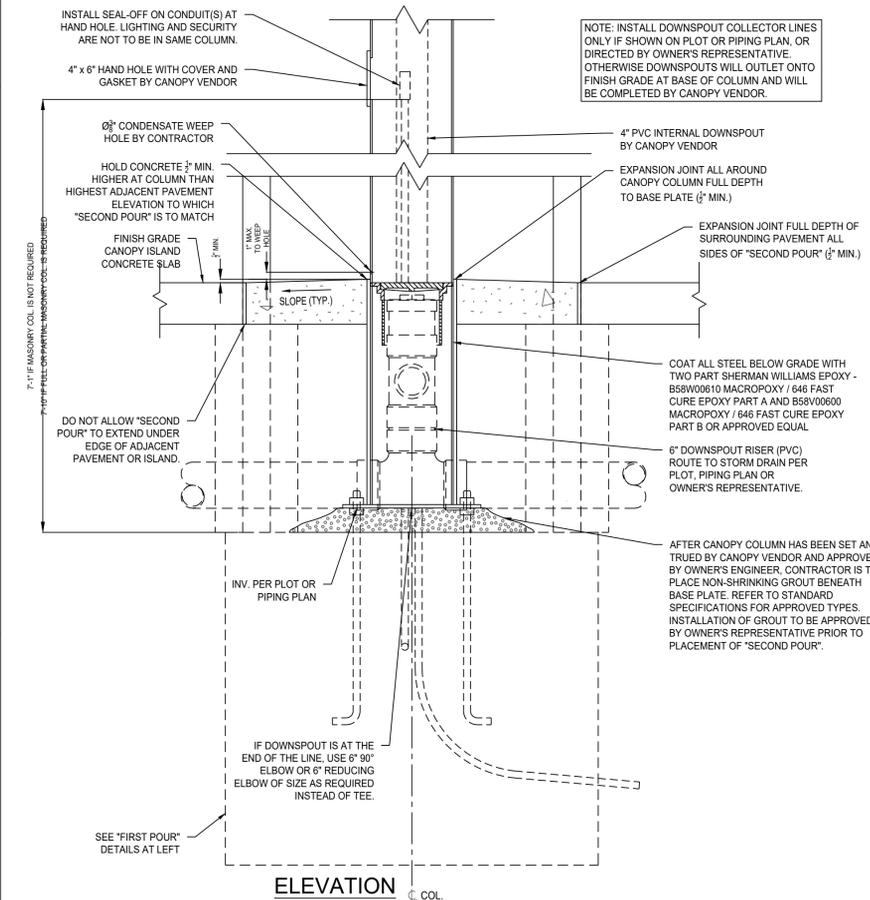
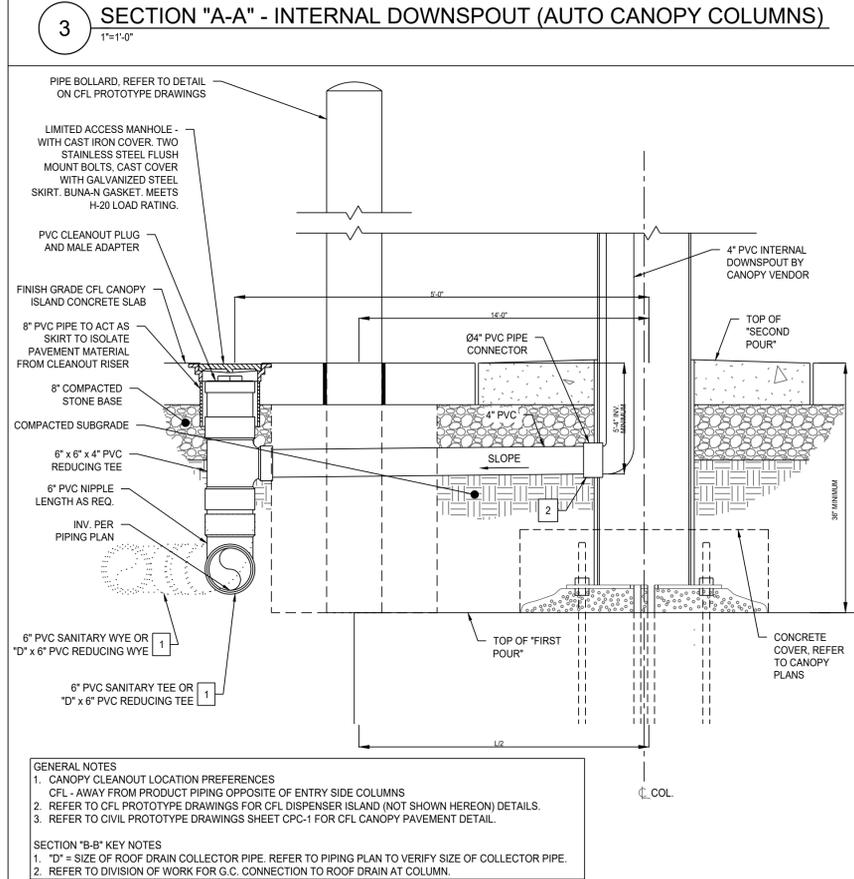
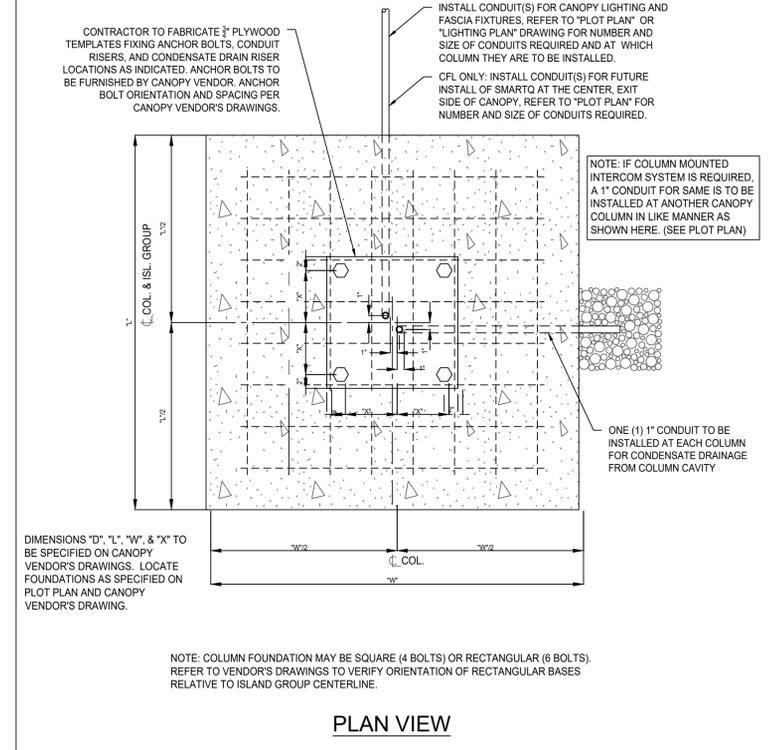
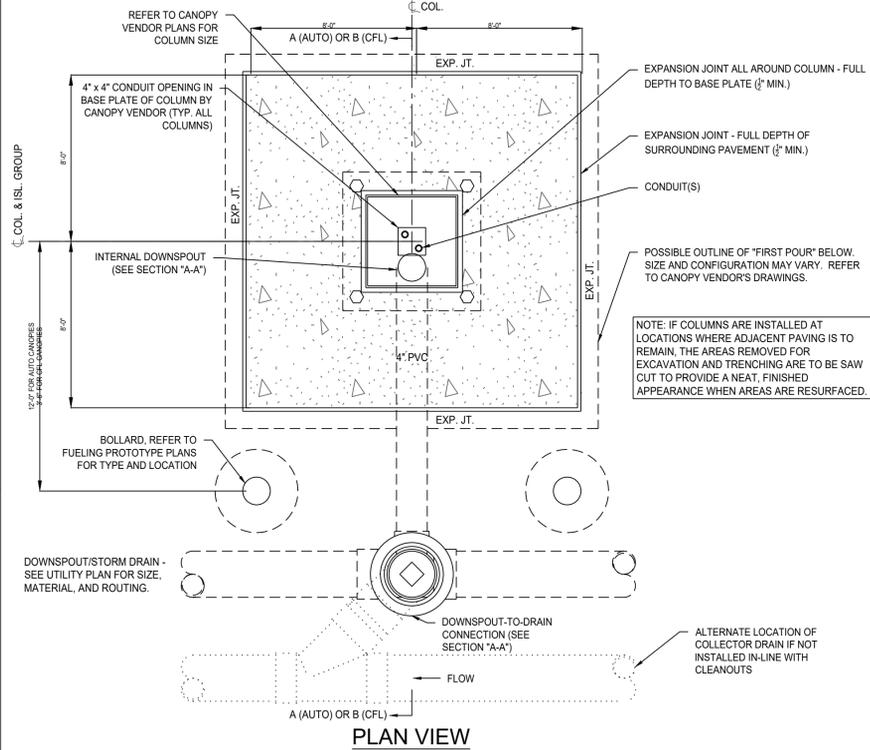
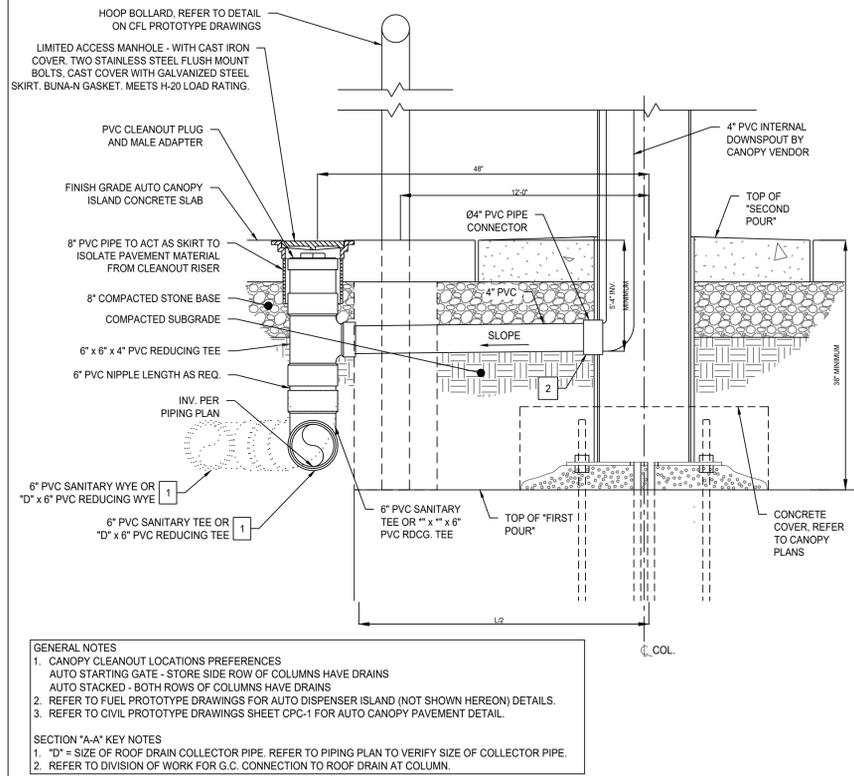
Revisions / Submissions		
ID	Description	Date
1	AHJ OWNER COMMENTS	2025/02/20
2	AHJ COMMENTS	2025/04/22
3	AHJ COMMENTS	2025/06/03
4	AHJ COMMENTS	2025/06/19
5	AHJ COMMENTS	2025/07/01
6	OAKLAND WRC COMMENTS	2025/08/15

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Checked By: MG
Date: 07/18/2025
Issue: PERMIT SET

Drawing Title:
CONSTRUCTION DETAILS

CUD-1

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Issue: PERMIT SET

Drawing Title:
STANDARD CANOPY BASE DETAILS

SCB-1

