

DRAWING LOCATION: s:\13-2024 (Residence Inn Airview Blvd)\PLOT\DRAWINGS\C-0 Title Sheet.dwg LAST SAVED BY: HURLEY ON 8/13/2024

Site Plan Review  
Received: 08/13/2024  
City of Kalamazoo

# CIVIL PLAN SET

## Residence Inn Airview Blvd

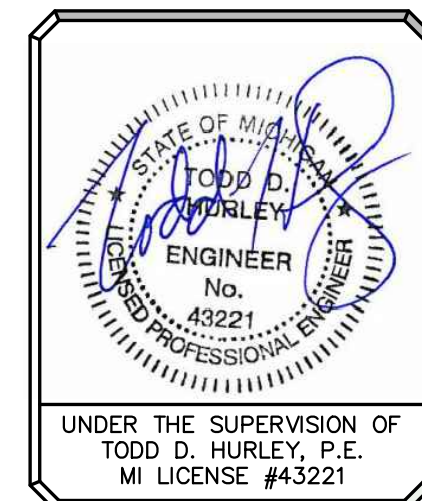
5135 PORTAGE RD.  
City of Kalamazoo  
Kalamazoo County, MI  
8/13/24

### OWNER

H&G  
750 TRADE CENTRE WAY, SUITE 100  
PORTAGE, MI 49002  
(269) 342-8600

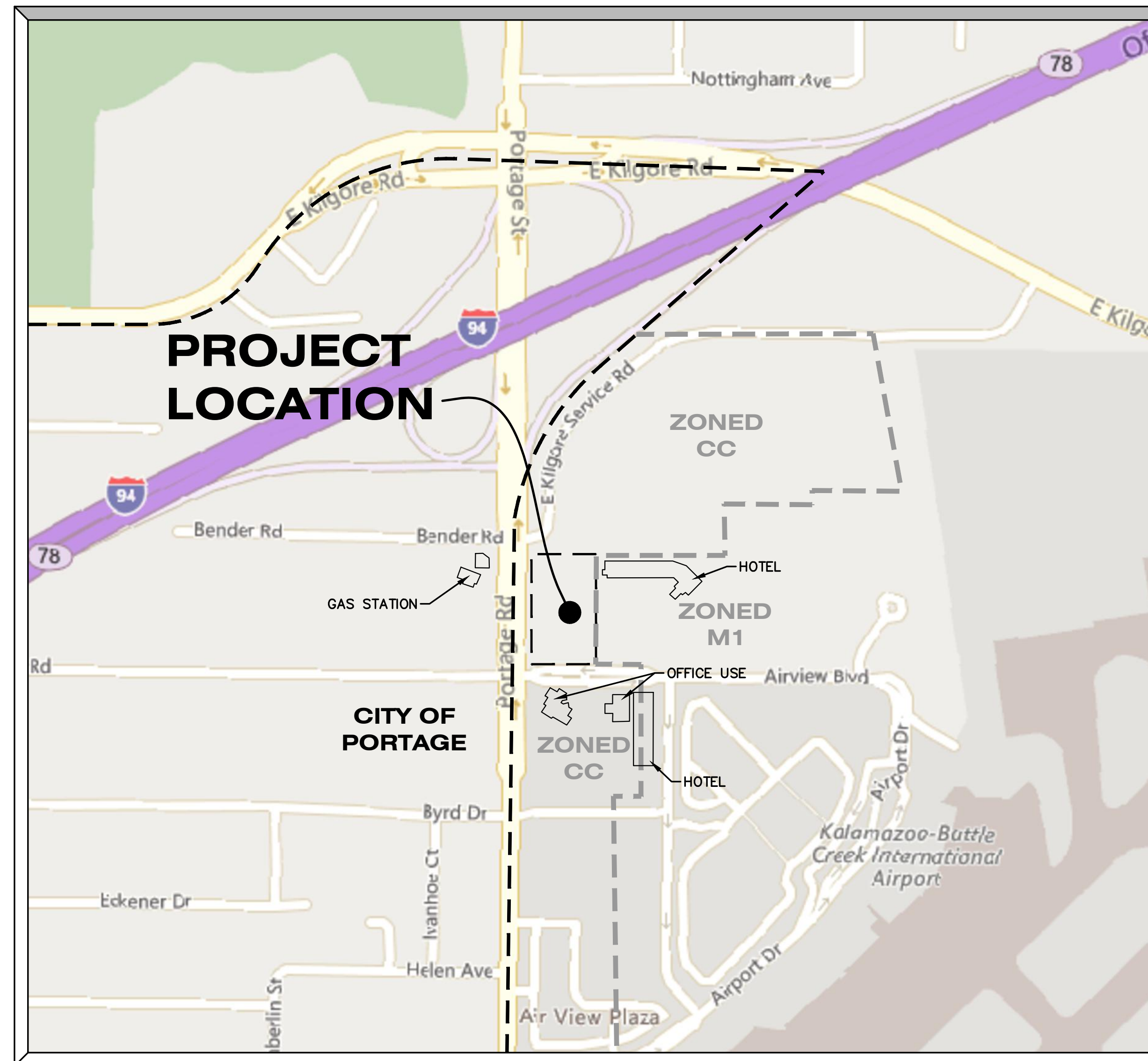
### PLANS PREPARED BY:

**HS**  
hurley & stewart  
hurley & stewart, llc  
2800 s. 11th street  
kalamazoo, michigan 49009  
269.552.4960 fax 269.552.4961  
www.hurleystewart.com



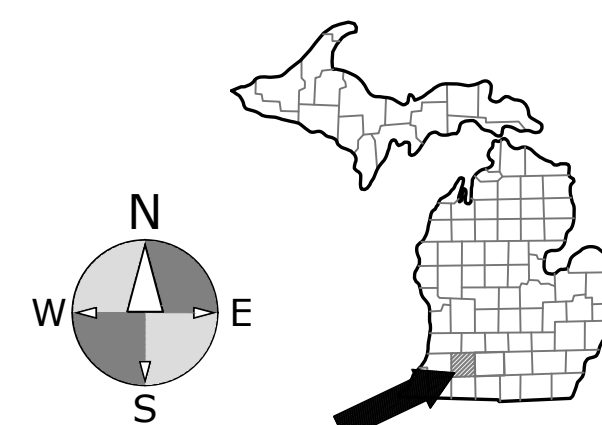
### UTILITY CONTACTS:

CHARTER COMMUNICATIONS, 4176 COMMERCIAL AVENUE PORTAGE, MI 49002 (269) 459-8746, BRIAN LONGCORE BRYAN.LONGCORE2@CHARTER.COM	CABLE	CITY OF KALAMAZOO, 415 STOCKBRIDGE AVENUE KALAMAZOO, MI 49001 (269) 337-8601, RON RIDENOUR RIDENOURR@KALAMAZOOCITY.ORG	FIBER OPTIC
COMCAST CABLE 25626 TELEGRAPH ROAD SOUTHFIELD, MI 48034 1 (734) 359-1669, JEFF DOBIES JDOBIES@COMCAST.COM	CABLE/FIBER	CTS TELECOM, 13800 EAST MICHIGAN AVENUE GALESBURG, MI 49053 (269) 746-3232, TOM CADY TCADY@CTSTELECOM.COM	TELECOM
CONSUMERS ENERGY, 2500 EAST CORK STREET KALAMAZOO, MI 49001 (269) 337-2245, ANDRE TAYLOR ANDRE.TAYLOR@CMSENERGY.COM	ELECTRIC	CITY OF KALAMAZOO, 415 STOCKBRIDGE AVENUE KALAMAZOO, MI 49001 (269) 337-8601, ANNA CRANDALL CRANDALLA@KALAMAZOOCITY.ORG	WATER
CONSUMERS ENERGY, 2500 EAST CORK STREET KALAMAZOO, MI 49001 (26) 337-2366, KYLE OAK KYLE.OAK@CMSENERGY.COM	GAS	CITY OF KALAMAZOO, 1415 NORTH HARRISON STREET KALAMAZOO, MI 49007 (269) 337-8736, RYAN STOUGHTON STOUGHTONR@KALAMAZOOCITY.ORG	SEWER
AT&T, 2919 MILLCORK STREET KALAMAZOO, MI 49001 (269) 384-4476, PHILIP BARDOCZ PB3132@ATT.COM	TELEPHONE/ FIBER		



SITE LOCATION MAP

SCALE: 1" = 300'



### DRAWING INDEX

#### SHT # DESCRIPTION

- C-1 - EXISTING CONDITIONS & DEMO PLAN
- C-2 - SITE LAYOUT PLAN
- C-3 - UTILITY PLAN
- C-4 - WATER MAIN PROFILES
- C-5 - SESC & GRADING PLAN
- C-6 - SITE DETAILS
- C-7 - UTILITY DETAILS
- L-1 - LANDSCAPE PLAN
- L-2 - LANDSCAPE DETAILS
- S-1 - TOPOGRAPHIC SURVEY
- S-2 - TOPOGRAPHIC SURVEY



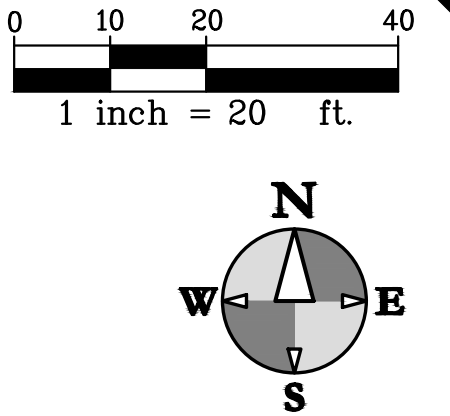
EXISTING TOPOGRAPHY PROVIDED BY HURLEY & STEWART, LLC. ALL UTILITIES AS SHOWN ARE APPROXIMATE LOCATIONS DERIVED FROM ACTUAL MEASUREMENTS AND AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATION NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THE AREA.

ISSUED FOR:  
SITE PLAN REVIEW  
8/13/24

RESIDENCE INN AIRVIEW BLVD. ISSUED FOR SITE PLAN REVIEW. 8/13/24



DRAWING LOCATION: 44-33-082D (Residential Redevelopment) FINAL DRAWINGS - C-1 Existing Conditions & Demo Plan.dwg LAST SAVED BY: MSURVILLE ON 8/13/2024

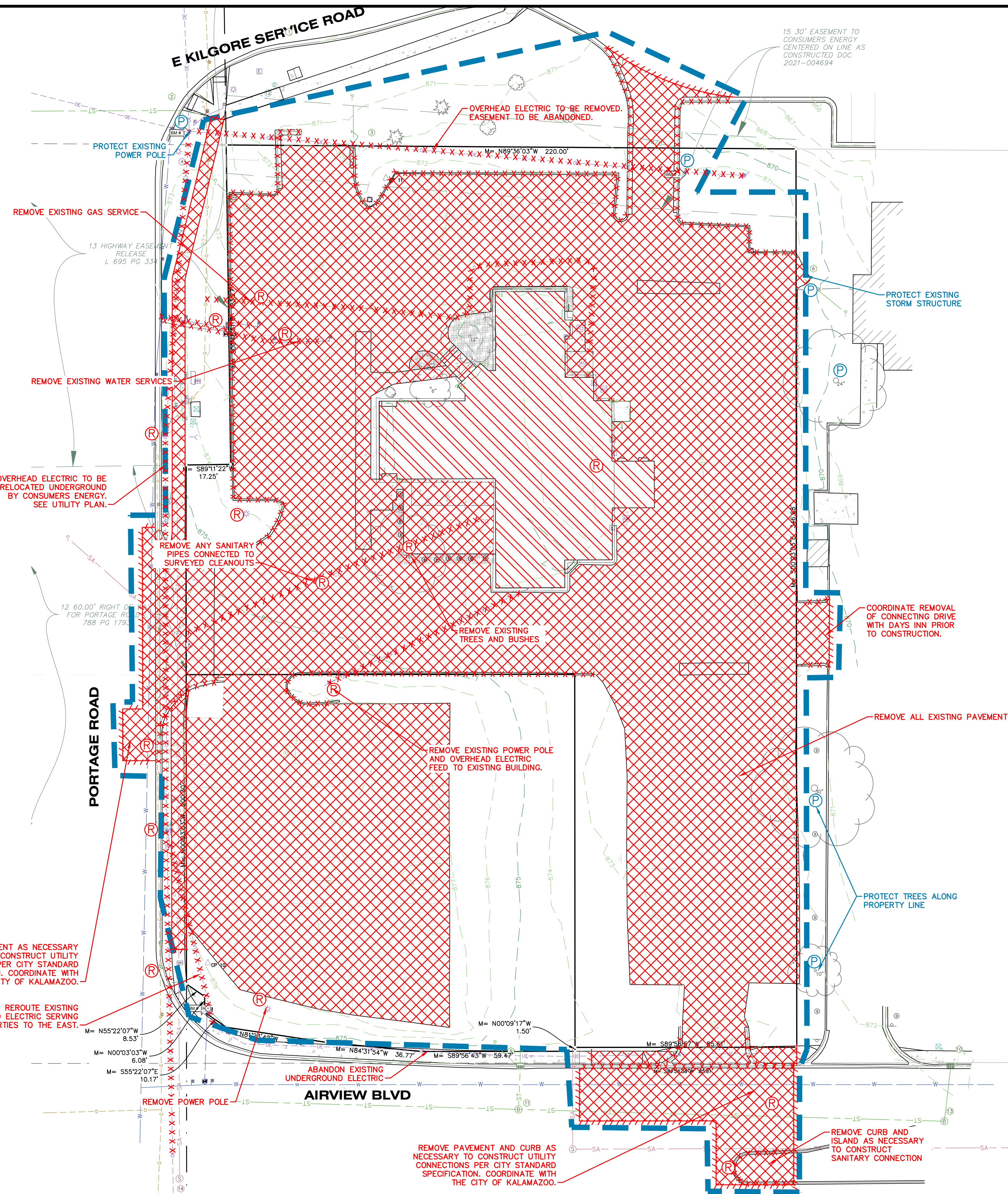


**REMOVAL NOTES**

- REVIEW ALL THE REMOVALS AND PROTECTION WITH OWNER PRIOR TO COMMENCING CONSTRUCTION. INSTALL TEMPORARY SNOW FENCE AROUND ALL TREES REQUIRING PROTECTION. SNOW FENCE SHALL BE PLACED AT EDGE OF DRIP LINE.
- SAWCUT ALL CURB, SIDEWALK, AND PAVEMENTS PRIOR TO REMOVAL. ADDITIONAL SAWCUT MAY BE NECESSARY PRIOR TO REPLACEMENT TO ENSURE CLEAN EDGE.
- ALL REMOVALS SHALL BE TAKEN OFF-SITE AND DISPOSED OF. NO STOCKPILE OR BURNING OF DEBRIS IS ALLOWED.
- COMPLY WITH ALL ASPECTS OF THE SOIL EROSION CONTROL PERMIT AS ISSUED BY CITY OF KALAMAZOO. ALL TEMPORARY CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION.
- ALL REMOVALS SHALL BE TO THE LIMITS INDICATED ABOVE UNLESS OTHERWISE DIRECTED BY THE ENGINEER. UNAUTHORIZED REMOVALS AND SUBSEQUENT REPLACEMENT SHALL BE AT THE CONTRACTOR'S EXPENSE.
- REMOVE, STORE, AND RESET ANY EXISTING SIGNS AS DIRECTED BY THE ENGINEER/OWNER.
- REMOVE ALL TREES TO THE CLEARING LIMITS AS SHOWN. REMOVE ALL EXISTING TREES, STUMPS AND BRUSH FROM THE SITE AS NECESSARY TO CONSTRUCT THE IMPROVEMENTS.
- IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS BECOME APPARENT, THESE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION OF ANYTHING AFFECTED SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
- FOR PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL CALL 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

**EXISTING STRUCTURE DATA**

- |  |   |
|--|---|
| ① STM CB<br>RIM = 871.10'<br>SILT SACK FULL OF SILT  | ⑨ STM CB<br>RIM = 873.47'<br>INV. 4" NW CPP = 870.17<br>INV. 12" S CONC = 867.72  |
| ② STM CB<br>RIM = 871.78'<br>SILT SACK FULL OF SILT  | ⑩ STM CB<br>RIM = 871.89'<br>INV. 4" NW CPP = 868.69<br>INV. 12" S CONC = 866.44  |
| ③ 2.0' CONCRETE STM CB<br>RIM = 869.91'<br>INV. 15" N PVC = 867.56'<br>WATER = 867.56'<br>SEDIMENT = 865.16'   | ⑪ STM MH<br>RIM = 873.68'<br>INV. 12" N CONC = 867.48<br>INV. 12" S CONC = 868.33<br>INV. 12" E CONC = 867.38   |
| ④ ELECTRIC MH<br>RIM = 872.72'   | ⑫ COMMUNICATION MH<br>RIM = 781.95'   |
| ⑤ 3.0' CONCRETE STM CB<br>RIM = 871.18'<br>INV. 8" NW CLAY = 869.13'<br>SEDIMENT = 869.03'   | ⑬ 4.0' CONCRETE STM MH<br>RIM = 872.23'<br>INV. 12" N CONC = 866.38<br>INV. 12" S CONC = 868.08<br>INV. 15" E CONC = 867.38<br>INV. 12" W CONC = 865.79 |
| ⑥ 2.0' CONCRETE STM CB<br>RIM = 870.21'<br>INV. 8" SE CPP = 867.86'<br>WATER = 867.71'<br>SUMP = 867.36'   | ⑭ 4.0' CONCRETE SAN MH<br>RIM = 874.66<br>INV. 6" N CLAY = 861.16<br>INV. 6" S CLAY = 861.11<br>N&S PIPES ARE   |
| ⑦ ELECTRIC MH<br>RIM = 874.90'   |   |
| ⑧ 6.0' CONCRETE SAN MH<br>RIM = 875.01'<br>INV. 6" NW CLAY = 864.36'<br>INV. 6" N CLAY = 862.11'±<br>INV. 6" S CLAY = 862.01'<br>N&S PIPES ARE PLUGGED |   |



REFER TO DRIEENGA GEOTECH REPORT, PROJECT NO. 2350612.3A, DATED 8/25/23, FOR RECOMMENDATIONS RELATED TO SITE PREPARATION, FOUNDATIONS, FLOORS, PAVEMENTS, GROUNDWATER CONTROL, AND TEMPORARY EXCAVATION STABILITY.

**REMOVALS LEGEND**

- XXXXXX CURB REMOVAL
- ////// SAWCUT
- XXXXXX PAVEMENT/SIDEWALK REMOVAL
- XXXXXX BUILDING DEMOLITION
- XXXXXX UTILITY LINE REMOVAL
- TREE REMOVAL
- Ⓡ REMOVE
- Ⓟ PROTECT
- Ⓢ SALVAGE
- LIMITS OF CONSTRUCTION

**BENCHMARKS**

ELEVATIONS OF THIS SURVEY ARE BASED ON NAVD 88 AS DERIVED FROM GPS

BM 1 EL = 873.42'  
SPIKE IN EAST FACE OF UTILITY POLE AT THE SOUTHEAST CORNER OF PORTAGE ROAD AND E KILGORE SERVICE ROAD.

BM 2 EL = 872.36'  
SPIKE IN SOUTH FACE OF UTILITY POLE ON THE EAST SIDE OF THE NORTH ACCESS DRIVE.

BM 3 EL = 876.79'  
CHISELED X IN NORTHEAST BOLT ON HYDRANT AT THE NORTHEAST CORNER OF PORTAGE ROAD AND AIRVIEW BLVD.



ALL UTILITIES AS SHOWN ARE APPROXIMATE LOCATIONS DERIVED FROM ACTUAL MEASUREMENTS AND AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATION NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THE AREA.

FIELD WORK PERFORMED BY:  
HURLEY & STEWART, LLC

hurley & stewart, llc  
2800 s. 11th street  
kalamazoo, michigan 49009  
269.552.4960 fax 269.552.4961  
www.hurleystewart.com

Job No. 23-082D - P.M.T.D.H. - DRG. LAD. QA/QC. 8/6/24	ISSUED FOR/REVISIONS:
2 SITE PLAN REVIEW	3/1/24
3 ELECTRIC SERVICE REVISIONS	6/3/24
4 PRE APP REVIEW	7/17/24
5 SITE PLAN REVIEW	8/13/24

COPYRIGHT © of Hurley & Stewart, LLC

**EXISTING CONDITIONS & DEMO PLAN**  
**RESIDENCE INN AIRVIEW BLVD**  
**H&G**

Sheet Title:  
Project:  
Client:  
8/13/24  
Sheet  
**C-1**







**UTILITY NOTES**

- FOR PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL CALL 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.
- ALL MATERIAL AND CONSTRUCTION WILL BE IN ACCORDANCE WITH THE MOST RECENT CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE STATE OF MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT). MDOT SPECIFICATIONS ARE SUBJECT TO THE CURRENT ADDENDA. IN ADDITION, ALL WORK WILL BE IN COMPLIANCE WITH ALL APPLICABLE FEDERAL AND STATE STANDARDS AND REGULATIONS.
- PLACE SANITARY CLEANOUT EVERY 100' AND/OR AT BENDS ON ALL 6" SANITARY SEWER LEADS.
- ALL BEDDING MATERIAL TYPES ARE TO BE PER MDOT SPEC. 603.06.
- DEWATERING MAY BE REQUIRED TO INSTALL OR REMOVE SOME UTILITIES. REFER TO SPECIFICATIONS FOR SPECIFIC REQUIREMENTS. REFER TO GEOTECHNICAL REPORT FOR MORE INFORMATION.
- ALL STRUCTURE CASTINGS TO BE EAST JORDAN IRON WORKS OR APPROVED EQUAL. SEE STRUCTURE TABLE FOR SPECIFIC CASTING AT EACH STRUCTURE.
- STORM SEWERS SHALL BE CONCRETE C76-III, SOLID WALL ADS N-12 RIGID PIPE MEETING AASHTO M-294, TYPE S, OR APPROVED EQUAL INSTALLED TO THE REQUIREMENTS OF MDOT AND THE CITY OF KALAMAZOO. MANDREL TESTING SHALL BE PERFORMED PRIOR TO PAVING. USE PERFORATED PIPE WHERE INDICATED.
- PROVIDE 18" WATER MAIN SEPARATION WHEN CROSSING OTHER UTILITIES. DEFLECT UNDER OTHER UTILITIES W/O USING FITTINGS WHENEVER POSSIBLE. SEE WATER MAIN PROFILE.
- THE CONTRACTOR SHALL INSTALL PEDESTRIAN FENCE AROUND ALL EXCAVATIONS TO BE LEFT OPEN OVERNIGHT AS REQUIRED.
- CONTRACTOR SHALL REFER TO THE ENVIRONMENTAL REPORTS FOR GROUNDWATER AND SOILS INFORMATION. ANY UTILITIES REQUIRING DEWATERING SHALL BE INSTALLED TO THE CITY OF KALAMAZOO STANDARDS AND INCLUDED IN THE INSTALLATION COSTS. CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING NECESSARY TO CONSTRUCT UTILITIES IN THE DRY.
- CONTRACTOR TO COORDINATE PRIVATE UTILITY CONNECTIONS WITH UTILITY COMPANIES.
- SITE CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL UTILITIES TO 5' FROM BUILDING WALL.
- COORDINATE ALL UTILITY LOCATIONS AND ELEVATIONS WITH MECHANICAL DRAWINGS AND BUILDING CONTRACTOR PRIOR TO INSTALLATION.
- OWNER IS RESPONSIBLE FOR NEW SANITARY CONNECTION. INSPECTION IS REQUIRED DURING THE IN. SANITARY SEWER MATERIALS AND INSTALLATION SHALL COMPLY WITH THE CITY OF KALAMAZOO REQUIREMENTS. COORDINATE WORK AND INSPECTIONS WITH THE CITY OF KALAMAZOO.
- WATER SUPPLY MATERIALS AND INSTALLATION SHALL COMPLY WITH THE CITY OF KALAMAZOO STANDARD SPECIFICATIONS, 2021 EDITION. COORDINATE CONNECTIONS WITH THE CITY OF KALAMAZOO.
- SEE SITE ELECTRICAL PLAN FOR LOCATION OF ALL ELECTRICAL SLEEVES AND CONDUIT.
- UNDERGROUND ELECTRICAL SHALL BE PROVIDED TO THE SITE LIGHT POLES.
- REMOVE SEDIMENT FROM ALL STRUCTURES ONCE PAVING IS COMPLETE AND REMOVE SILT SACKS.
- IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS BECOME APPARENT, THESE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION OF ANYTHING AFFECTED SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
- RIM ELEVATION OF ALL EXISTING CASTINGS TO BE ADJUSTED TO PROPOSED GRADE.
- SANITARY SEWER MATERIALS AND INSTALLATION SHALL COMPLY WITH THE 2013 CITY OF KALAMAZOO STANDARDS FOR SANITARY MAIN/SERVICE.

**LEGEND**

	PROPOSED RIGHT OF WAY		EXISTING RIGHT OF WAY
	PROPOSED EASEMENT		EXISTING EASEMENT
	PROPOSED SANITARY SEWER		EXISTING SANITARY SEWER
	PROPOSED STORM SEWER		EXISTING STORM SEWER
	PROPOSED CATV		EXISTING CATV
	PROP ELEC (OVERHEAD)		EXIST ELEC (OVERHEAD)
	PROP ELEC (UNDERGROUND)		EXIST ELEC (UNDERGROUND)
	PROPOSED FIBEROPTIC CABLE		EXISTING FIBEROPTIC CABLE
	PROPOSED GAS		EXISTING GAS
	PROPOSED TELEPHONE		EXISTING TELEPHONE
	PROPOSED WATER MAIN		EXISTING WATER MAIN
	PROPOSED TREELINE		EXISTING TREELINE
	PROPOSED FENCE		EXISTING FENCE

NOTE: ALL SYMBOLS IN THIS LEGEND ARE SHOWN AS EXISTING. PROPOSED SYMBOLS WILL USE THE CORRESPONDING SYMBOL WITH A THICKER LINE.

**BENCHMARKS**

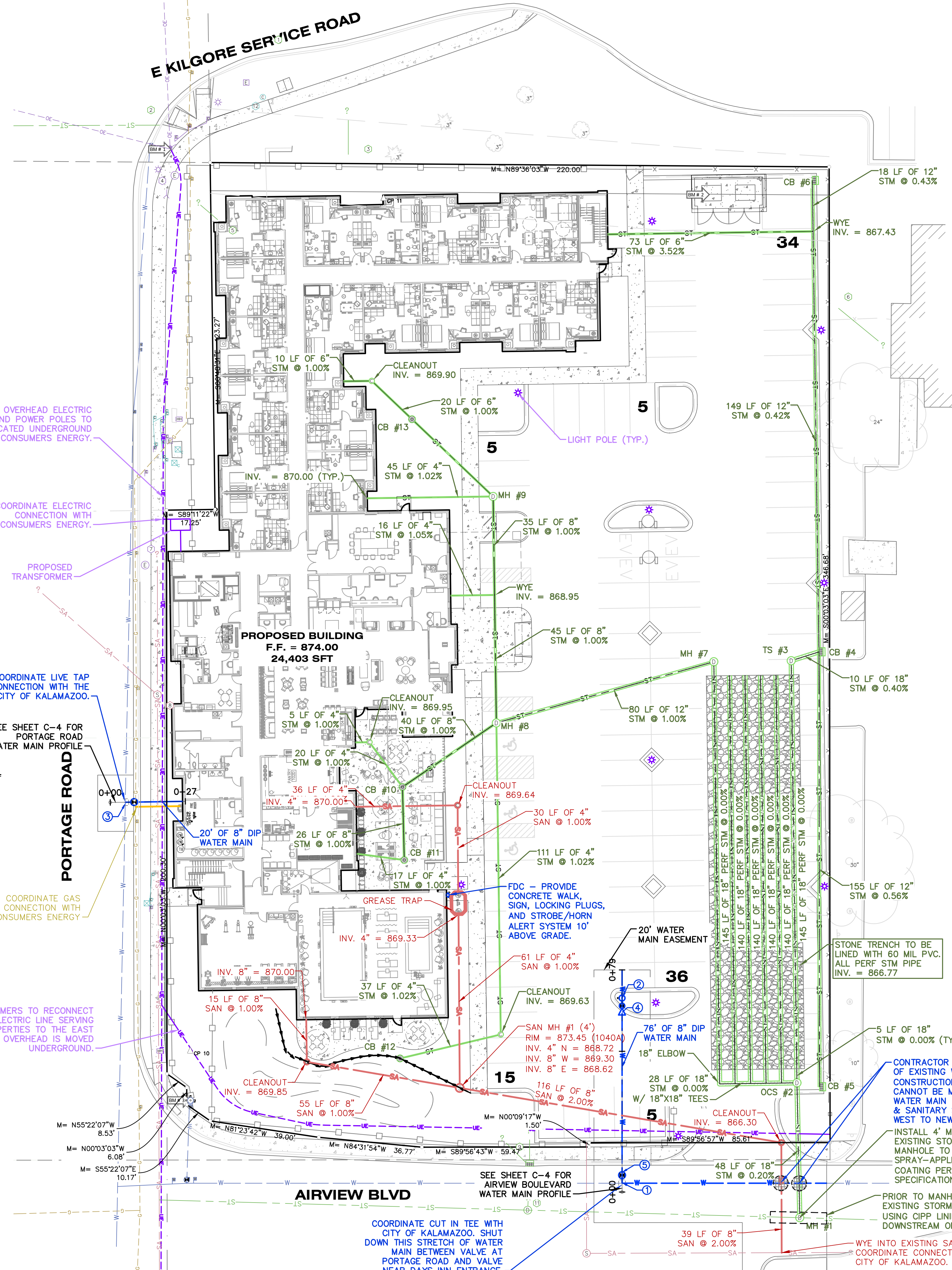
ELEVATIONS OF THIS SURVEY ARE BASED ON NAVD 88 AS DERIVED FROM GPS

BM 1 EL = 873.42'  
SPIKE IN EAST FACE OF UTILITY POLE AT THE SOUTHEAST CORNER OF PORTAGE ROAD AND E KILGORE SERVICE ROAD.

BM 2 EL = 872.36'  
SPIKE IN SOUTH FACE OF UTILITY POLE ON THE EAST SIDE OF THE NORTH ACCESS DRIVE.

BM 3 EL = 876.79'  
CHISELED X IN NORTHEAST BOLT ON HYDRANT AT THE NORTHEAST CORNER OF PORTAGE ROAD AND AIRVIEW BLVD.

	BENCH MARK
	POST/BOLLARD SIGN
	MAILBOX
	SOIL BORING
	MONITOR WELL



**WATER MAIN FITTING SCHEDULE**

FITTING NUMBER	DESCRIPTION	TOTAL THIS SHEET
1	8" X 8" TEE	1
2	FIRE HYDRANT ASSEMBLY W/ 6" VALVE	1
3	12" X 8" TAPPING SLEEVE AND VALVE	1
4	8" X 6" REDUCER	1
5	8" GATE VALVE & BOX	1

**LEGEND**

DEFLECT WATER MAIN 18" UNDER PIPE CONFLICT (SEE DETAIL)

NOTE: CONTRACTOR RESPONSIBLE FOR VERIFYING FITTINGS. AMOUNTS DO NOT TAKE INTO CONSIDERATION VERTICAL DEFLECTIONS.

**STORM SEWER STRUCTURE SCHEDULE**

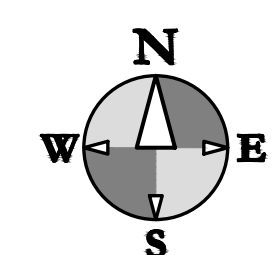
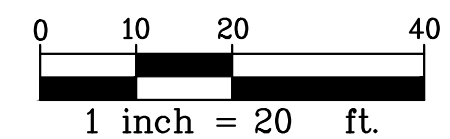
STR. #	RIM EL.	DIAM.	CASTING	PIPES IN:	PIPES OUT
CB #4	870.92	4'	7045 M2	12" S: 866.81 12" N: 866.81	18" W: 866.81
CB #5	871.22	2'	7045 M2		12" N: 867.67
CB #6	871.01	2'	7045 M2		12" S: 867.51
CB #10	873.76	8"	NYLOPLAST	4" NW: 869.75 8" S: 869.57	8" NE: 869.57
CB #11	873.76	8"	NYLOPLAST	4" W: 869.83	8" N: 869.83
CB #12	872.87	8"	NYLOPLAST		4" E: 870.00
CB #13	873.38	8"	NYLOPLAST	6" NW: 869.70	6" SE: 869.70
MH #1	868.32	4'	1040 A	18" S: 866.68 12" W: 866.62	12" E: 866.62
MH #7	871.79	4'	1040 A	12" W: 867.70	18" S: 866.77
MH #8	873.35	4'	1040 A	8" SW: 869.17 4" S: 868.50 8" N: 868.50	12" E: 868.50
MH #9	873.12	4'	1040 A	6" NW: 869.30 4" W: 869.54	8" S: 869.30
OCS #2	871.35	4'	1040 A	18" N: 866.77 18" S: 866.77	
TS #3	871.17	6'	1040 A	18" E: 866.77 18" S: 866.77	

\*\* EXISTING PIPE  
 \*\* BARRACUDA MAX S6 HYDRODYNAMIC SEPARATOR (SEE DETAIL)  
 \*\*\* INCLUDES STAND PIPE WITH ORIFICE FOR SLOW RELEASE TO CITY STORM SEWER (SEE DETAIL)  
 \*\*\*\* BACKFLOW PREVENTER



ALL UTILITIES AS SHOWN ARE APPROXIMATE LOCATIONS DERIVED FROM ACTUAL MEASUREMENTS AND AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATION NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THE AREA.

FIELD WORK PERFORMED BY:  
HURLEY & STEWART, LLC



Job No. 23-082D P.M.T.H. DRG. L&D QA/QC: 8/6/24

ISSUED FOR REVISIONS:

1	SITE PLAN REVIEW	3/7/24
2	ELECTRIC SERVICE REVISIONS	6/3/24
3	PRE APP REVIEW	7/17/24
4	SITE PLAN REVIEW	8/13/24

COPYRIGHT © of Hurley & Stewart, LLC

hurley & Stewart, LLC  
 2800 s. 11th street  
 kalamazoo, michigan 49009  
 269.552.4960 fax 269.552.4961  
 www.hurleyandstewart.com

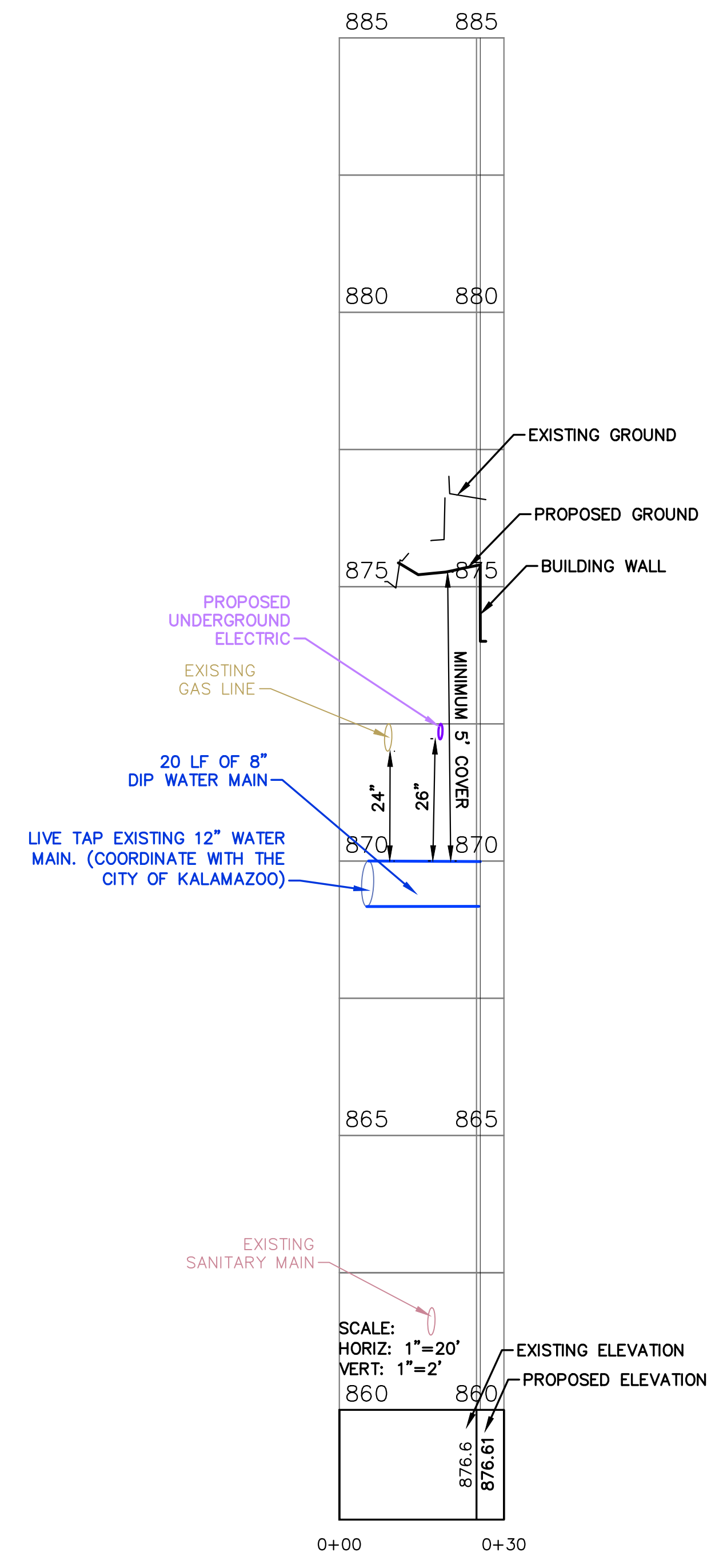
**hurley & Stewart**

UTILITY PLAN  
 RESIDENCE INN AIRVIEW BLVD  
 H&G

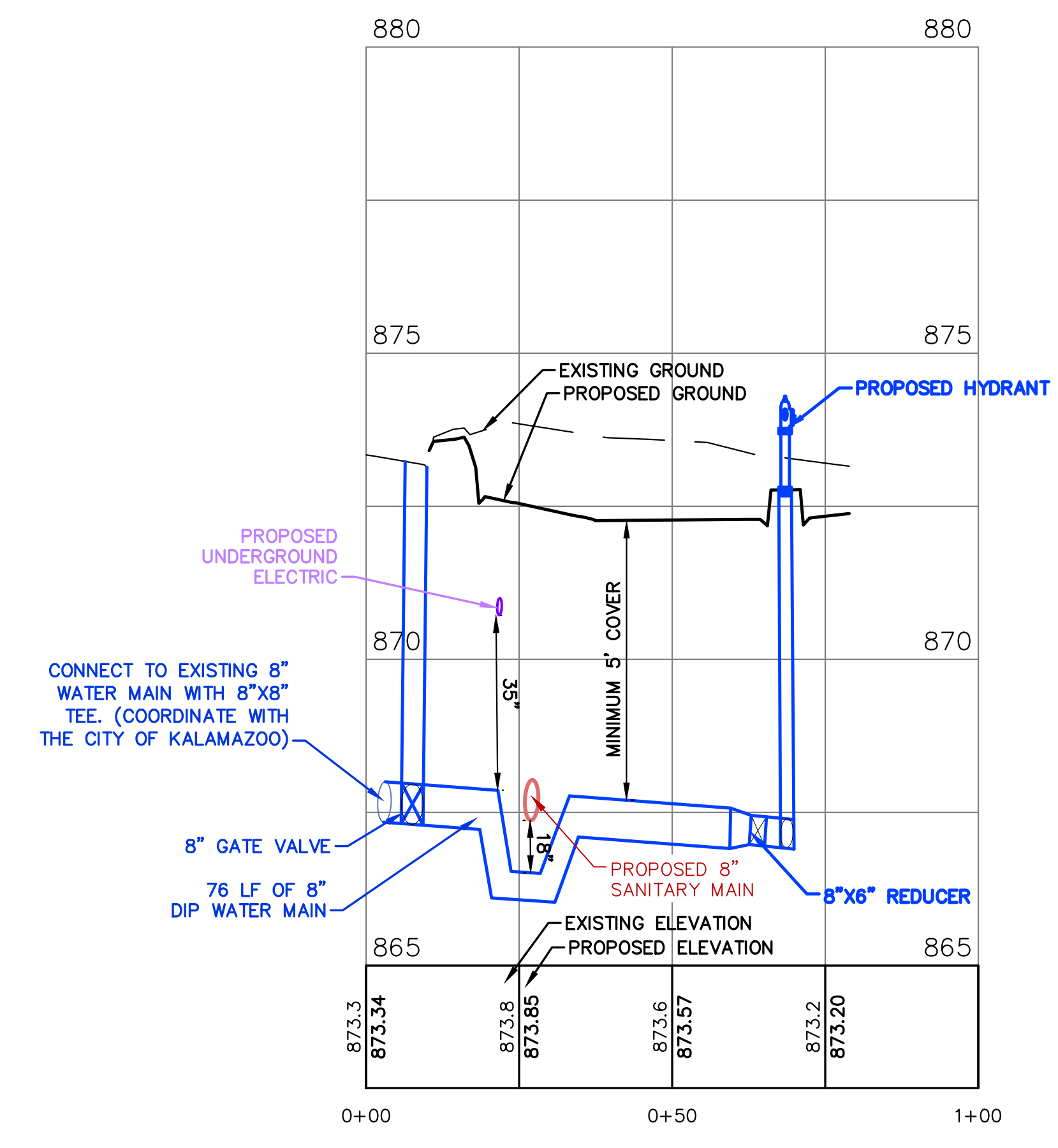
Sheet Title:  
 Project:  
 Client:

8/13/24  
 Sheet  
**C-3**





**PORTAGE ROAD WATER MAIN CONNECTION**



**AIRVIEW BOULEVARD WATER MAIN CONNECTION**



ALL UTILITIES AS SHOWN ARE APPROXIMATE LOCATIONS DERIVED FROM ACTUAL MEASUREMENTS AND AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATION NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THE AREA.  
 FIELD WORK PERFORMED BY:  
 HURLEY & STEWART, LLC

Job No. 23-082D - P.M.-TOP	Drft-LAD	QA/QC	8/6/24
ISSUED FOR/REVISIONS:			
2 - SITE PLAN REVIEW			3/1/24
3 - ELECTRIC SERVICE REVISIONS			6/3/24
4 - PRE APP REVIEW			7/17/24
5 - SITE PLAN REVIEW			8/13/24
COPYRIGHT © of Hurley & Stewart, LLC			

**WATER MAIN PROFILES  
 RESIDENCE INN AIRVIEW BLVD  
 H&G**

Sheet Title:  
 Project:  
 Client:

8/13/24  
 Sheet

**C-4**

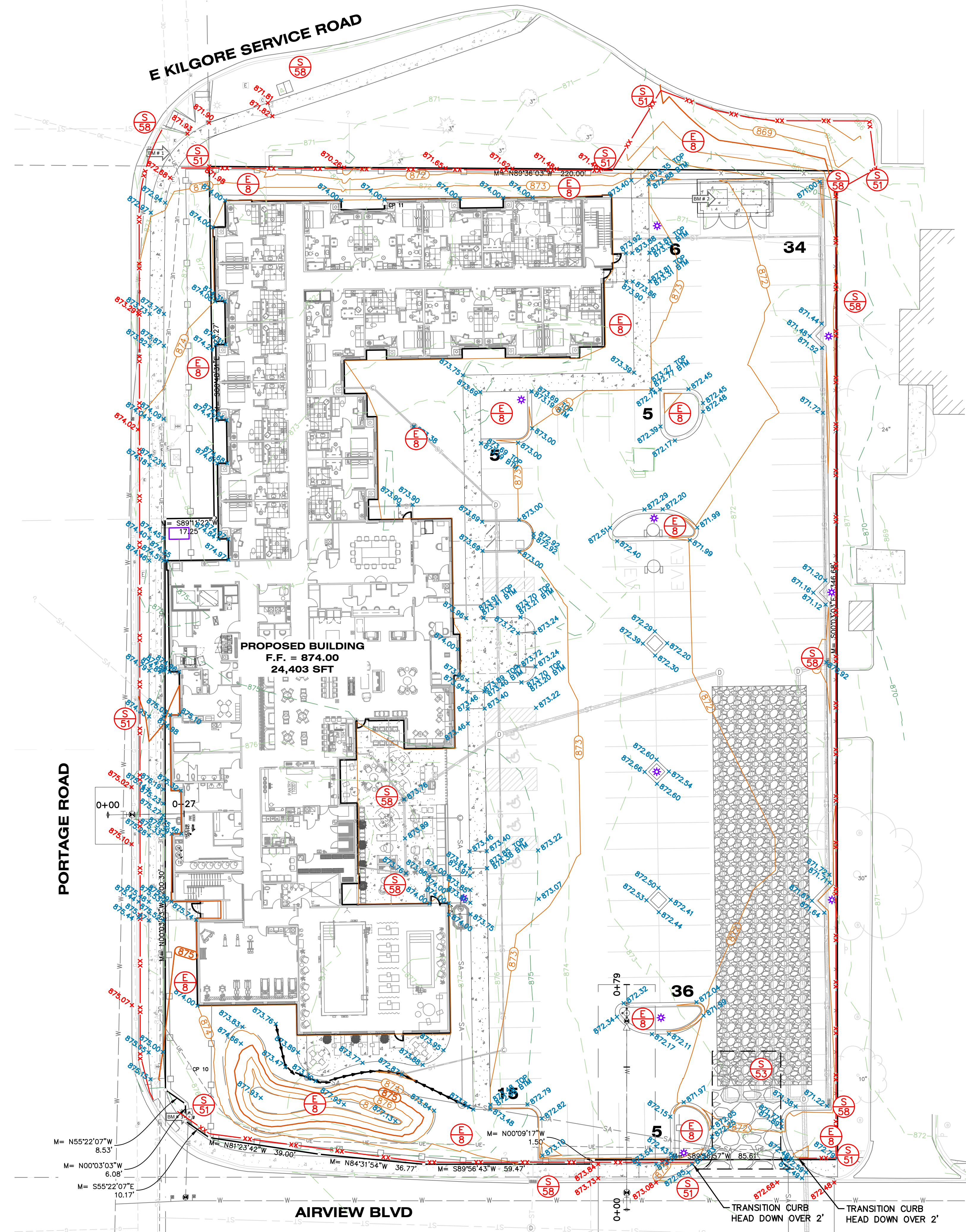


# SOIL EROSION AND SEDIMENTATION CONTROL MEASURES

KEY	BEST MANAGEMENT PRACTICES	SYMBOL	WHERE USED
E8	PERMANENT SEEDING		Stabilization method utilized on sites where earth change has been completed (final grading attained).
E9	MULCH BLANKETS		On exposed slopes, newly seeded areas, new ditch bottoms, or areas subject to erosion.
S51	SILT FENCE		Use adjacent to critical areas, to prevent sediment laden sheet flow from entering these areas.
S53	STABILIZED CONSTRUCTION ACCESS		Used at every point where construction traffic enters or leaves a construction site.
S58	INLET PROTECTION FABRIC DROP		Use at stormwater inlets, especially at construction sites.

## GRADING & SESC NOTES

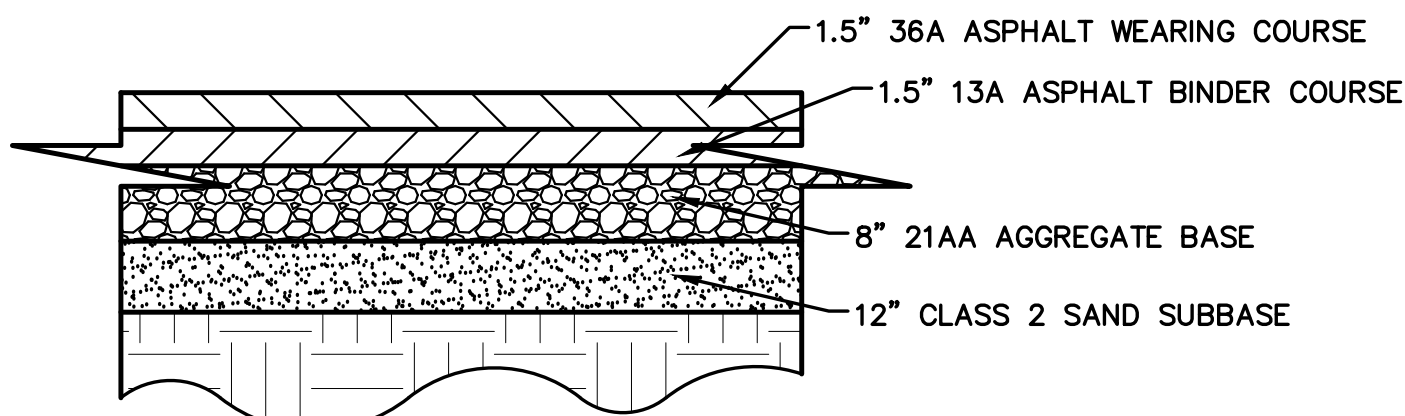
- ALL WORK WILL COMPLY WITH THE PROVISIONS OF THE SOIL EROSION AND SEDIMENTATION CONTROL ACT (PA 451, PART 91 OF 1994 AS AMENDED) ADMINISTERED BY CITY OF KALAMAZOO.
- FOR INSTALLATION SPECIFICATIONS FOR SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES, REFER TO THE STATE OF MICHIGAN DEPARTMENT OF TECHNOLOGY, MANAGEMENT, AND BUDGET (DTMB) SESC MANUAL.
- ALL TEMPORARY SOIL EROSION PROTECTION SHALL REMAIN IN PLACE UNTIL REMOVAL IS REQUIRED FOR FINAL CLEANUP AND APPROVAL.
- ALL SOIL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION.
- ALL SOIL PILES SHALL BE SURROUNDED BY SILT FENCE IF ALLOWED TO REMAIN IN PLACE FOR MORE THAN 7 DAYS. TOPSOIL PILES SHALL BE SEEDED IF ALLOWED TO REMAIN IN PLACE FOR MORE THAN 20 DAYS. SPOIL PILES SHALL NOT BE PLACED WITHIN 50' FROM ANY TEMPORARY OR PERMANENT WATERCOURSE.
- THE CONTRACTOR SHALL COMPLY WITH THE WEEKLY RECOMMENDATIONS OF THE CERTIFIED STORM WATER OPERATOR.
- PROVIDE SILT SACKS IN EACH CATCH BASIN UNTIL SITE IS STABILIZED.
- SEE LANDSCAPING PLAN FOR FINAL SLOPE TREATMENTS.
- PLACE TOPSOIL AND SEED ACCORDING TO THE LANDSCAPE PLANS AS SOON AS AREAS ARE BROUGHT TO GRADE.
- WATER SITE WHEN NECESSARY TO PREVENT AIR BORNE SEDIMENT TRANSFER.
- THE CONTRACTOR SHALL INSTALL PEDESTRIAN FENCE AROUND ALL EXCAVATIONS TO BE LEFT OPEN OVERNIGHT AS REQUIRED.
- ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT GRADES AT EDGE OF METAL (EOM) UNLESS OTHERWISE NOTED.
- ALL EXISTING ELEVATIONS ARE TO BE VERIFIED AND ACCEPTED AS SHOWN PRIOR TO COMMENCEMENT OF WORK.
- REMOVE AND REPLACE WITH CONTROLLED FILL ANY AREAS THAT HAVE BEEN SOFTENED BY RAINS, FREEZING, CONSTRUCTION EQUIPMENT, ETC.
- ALL REQUIRED FILL FOR THIS PROJECT SHALL BE SELECTED EXCAVATED MATERIAL FROM THE SITE APPROVED BY THE ENGINEER OR CLASS II GRANULAR MATERIAL FROM BORROW AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- ALL GRANULAR FILL UNDER THE INFLUENCE OF THE ROADWAY AND PROCESSED ROAD GRAVEL SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
- ALL COMPACTION SHALL BE ACCOMPLISHED BY PLACING THE FILL IN 12" LOOSE LIFTS AND MECHANICALLY COMPACTING EACH LIFT TO AT LEAST THE SPECIFIED MINIMUM DRY DENSITY. FIELD DENSITY TESTS SHOULD BE PERFORMED ON EACH LIFT AS NECESSARY TO ENSURE THAT ADEQUATE MOISTURE CONDITIONS AND COMPACTION ARE BEING ACHIEVED.
- SITE CONTRACTOR SHALL REMOVE AND STOCKPILE ALL TOPSOIL AND BLACK ORGANIC SOILS ON-SITE TO BE USED IN THE REGRADING OF LANDSCAPE AREAS. THIS MATERIAL IS NOT TO BE USED FOR FILL OR PAVEMENT SUBBASE. REMOVAL OF ANY EXCESS SOIL OFF-SITE SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- CONTRACTOR RESPONSIBLE FOR VERIFYING EARTHWORK CALCULATIONS PRIOR TO COMMENCING WORK. NO EXTRA EARTHWORK WILL BE PAID FOR ONCE EARTHWORK HAS BEGUN. ANY DISCREPANCIES WITH THE EARTHWORK CALCULATIONS SHALL BE REVIEWED WITH THE OWNER AND ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID TRACKING SOIL ONTO ADJACENT ROADWAYS. SCRAPE ROAD AT THE END OF EACH WORKDAY AND SWEEP AT LEAST ONCE A WEEK.
- ANY DISTURBED AREA THAT WILL BE LEFT UNWORKED 5 DAYS OR LONGER MUST BE SEEDED AND MULCHED OR SODDED TO ESTABLISH VEGETATION FOR TEMPORARY STABILIZATION. BASINS TO BE SEEDED AND MULCH BLANKETS APPLIED IMMEDIATELY TO PROVIDE A STABLE BASE AND AVOID EXCESSIVE EROSION.
- ROAD RIGHTS-OF-WAY MUST BE STABILIZED WITH SEED AND MULCH WITHIN 5 DAYS OF COMPLETING UTILITY WORK IN THE RIGHT-OF-WAY.
- ACCUMULATED SEDIMENT TO BE REMOVED FROM STORM SYSTEM UPON COMPLETION OF CONSTRUCTION. ALL TEMPORARY CONTROLS TO BE REMOVED AFTER SITE IS STABILIZED AND VEGETATION ESTABLISHED.
- IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS BECOME APPARENT, THESE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION OF ANYTHING AFFECTED SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
- ONLY EROSION CONTROL BLANKETS SUCH AS NORTH AMERICAN GREEN BIONET S150BH, AND WESTERN WOOD FIBERS EXCEL SS-2 ALL NATURAL (BIODEGRADABLE JUTE/SCRIM NETTING WITH LENO WEAVE TYPE MESH), OR EQUIVALENT, ARE CONSIDERED ACCEPTABLE PRODUCTS. NET EROSION BLANKETS CONTAINING PLASTIC OR SYNTHETIC NET OR NETTING SHALL NO LONGER BE AUTHORIZED, PURCHASED, NOR APPROVED FOR USE.



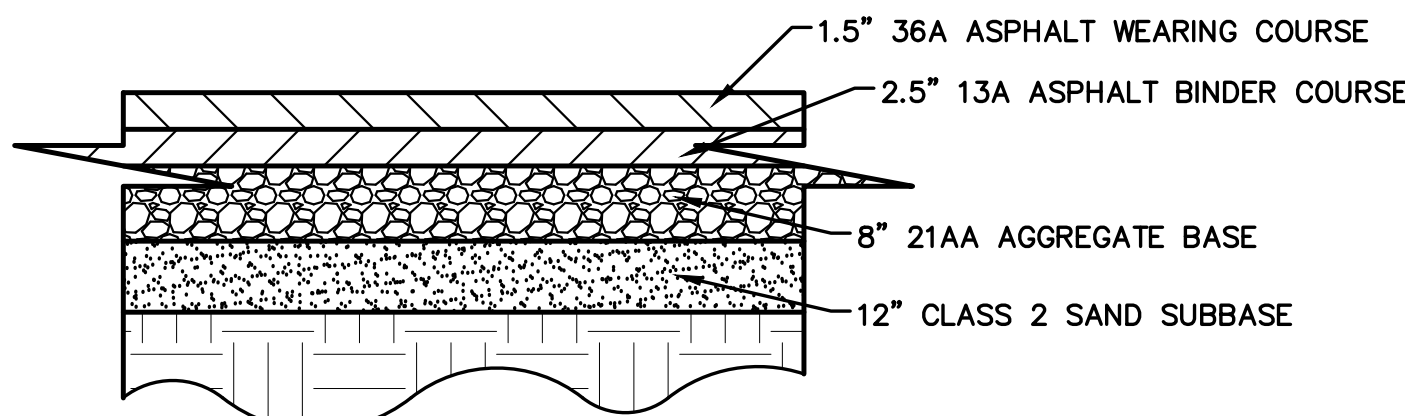


**PAVEMENT NOTES:**

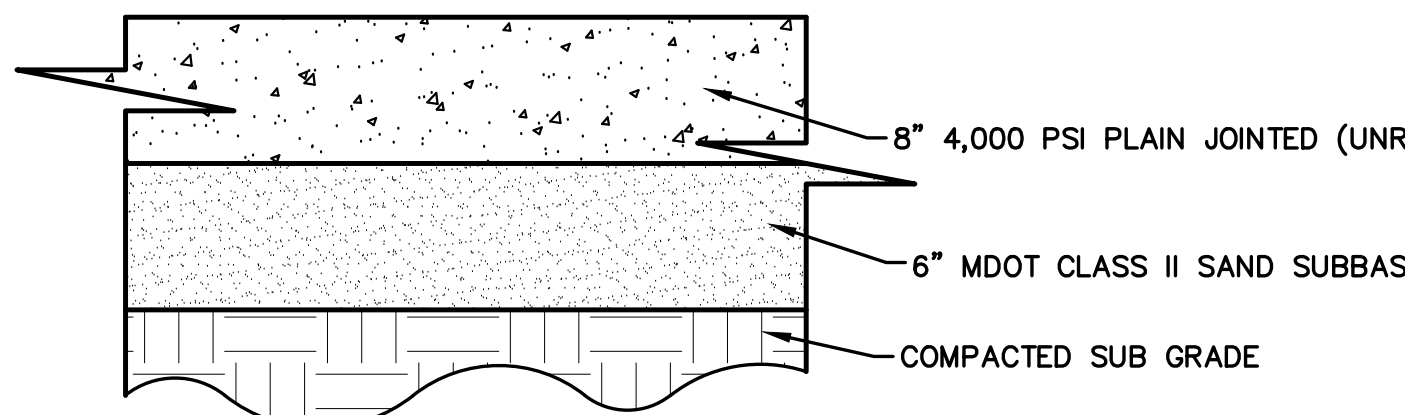
1. THE SUBGRADE MATERIALS SHALL BE PROOF ROLLED AND/OR SCARIFIED AND COMPACTED PRIOR TO PLACEMENT OF BASE MATERIAL. WHERE EXISTING SUBGRADE MATERIALS ARE UNSUITABLE, THEY SHALL BE REMOVED AND REPLACED WITH COMPACTED SELECT MATERIAL IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS.
2. ALL PAVEMENT AND AGGREGATE MATERIALS SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING REPORT, DRIESENGA PROJECT NO. 2350612.3A ISSUED 08/25/2023



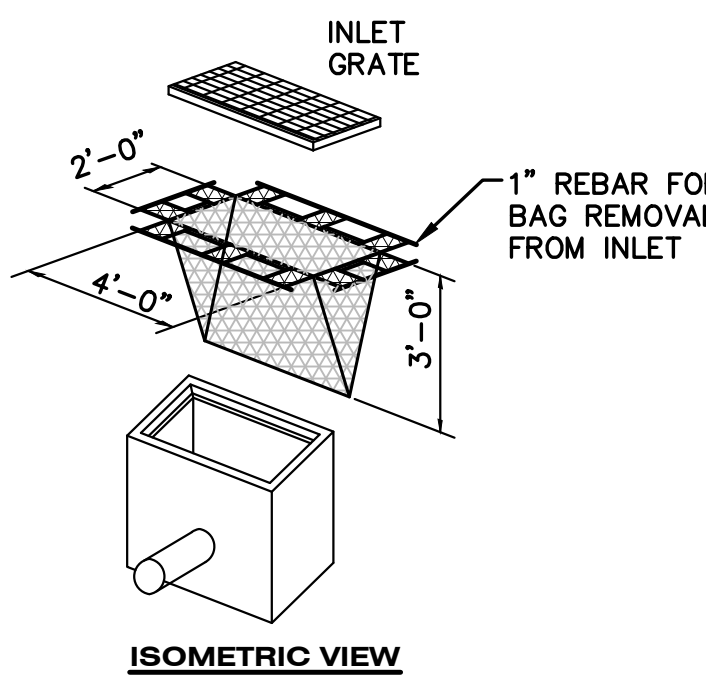
ALL MATERIALS COMPACTED IN PLACE ON PREPARED SUBGRADE  
**LIGHT DUTY ASPHALT DETAIL**  
NOT TO SCALE



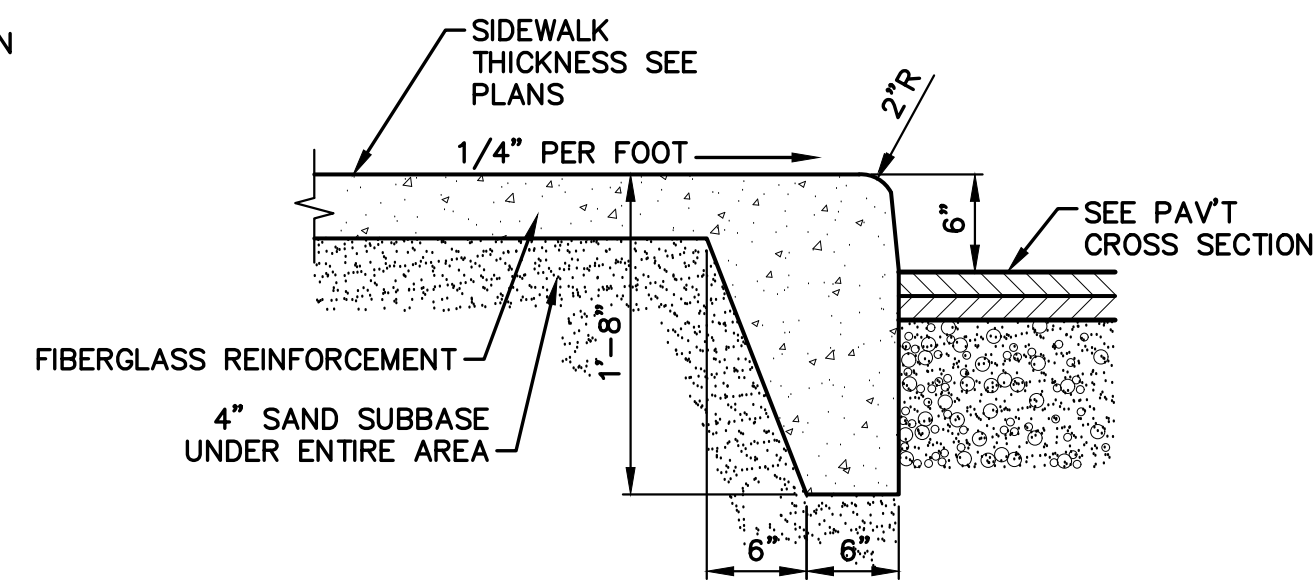
ALL MATERIALS COMPACTED IN PLACE ON PREPARED SUBGRADE  
**HEAVY DUTY ASPHALT DETAIL**  
NOT TO SCALE



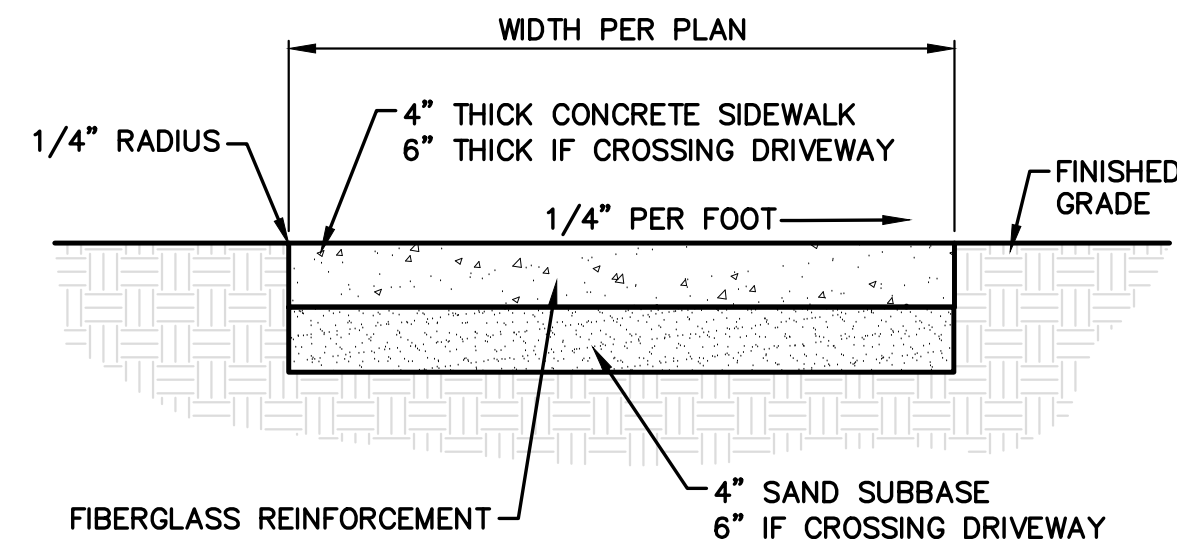
**HEAVY DUTY CONCRETE DETAIL**  
NOT TO SCALE



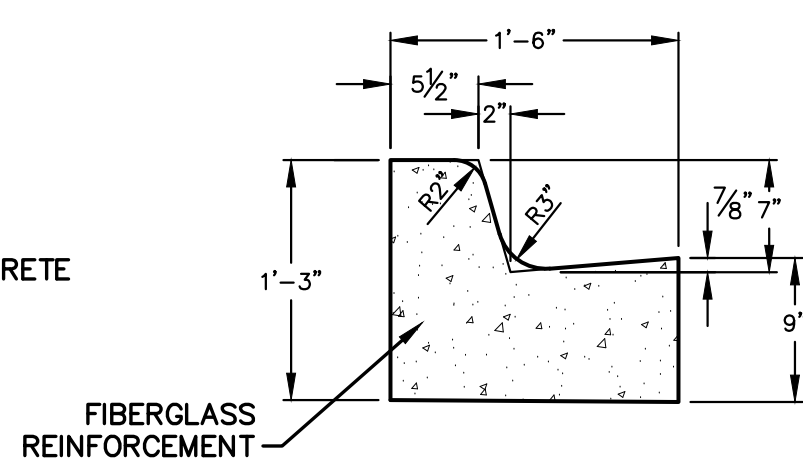
**S58 INLET PROTECTION FABRIC DROP**  
NOT TO SCALE



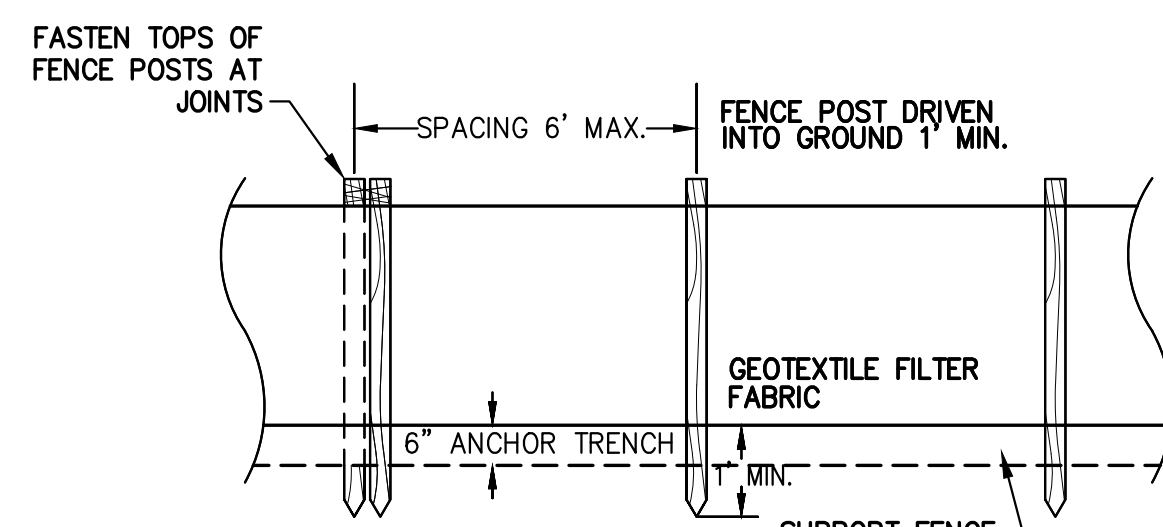
**INTEGRAL SIDEWALK/CURB**  
NOT TO SCALE



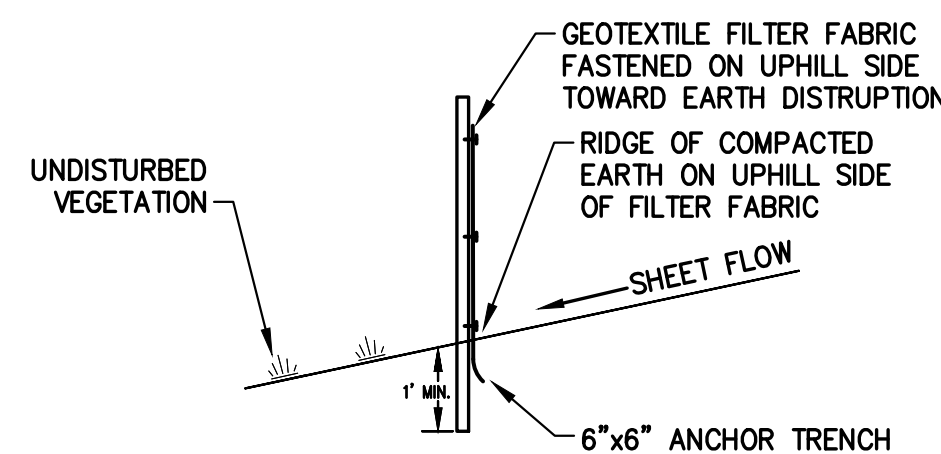
**SIDEWALK DETAIL**  
NOT TO SCALE



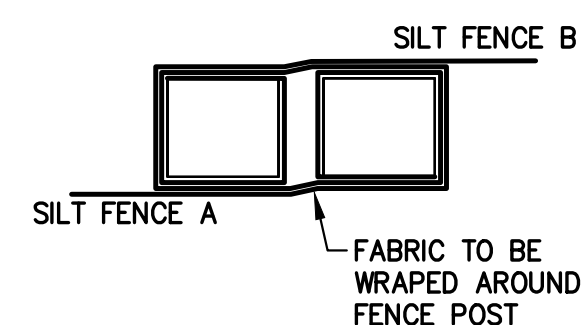
**"C2" CURB DETAIL**  
NOT TO SCALE



**FRONT VIEW**  
NOT TO SCALE

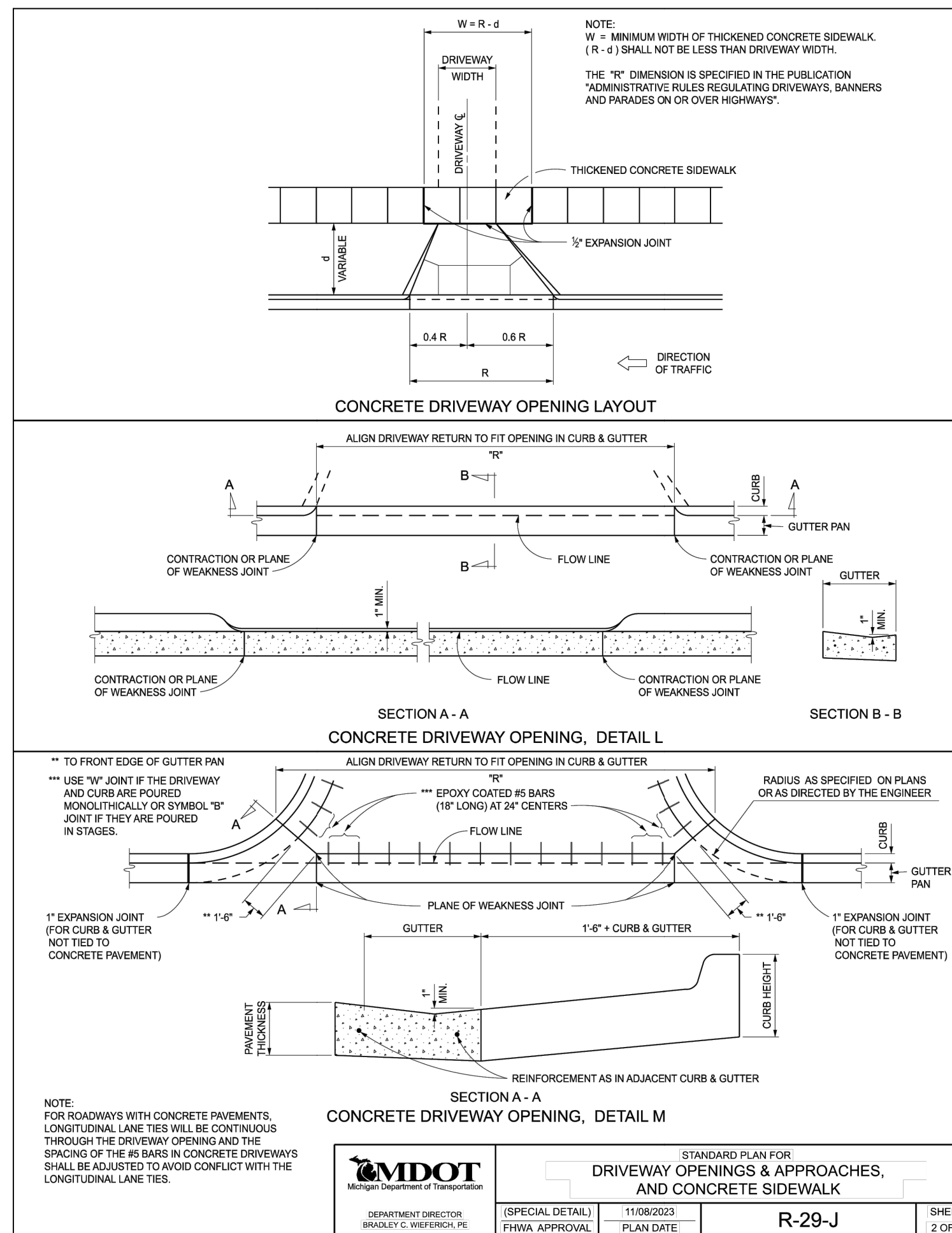


**SECTION**  
NOT TO SCALE

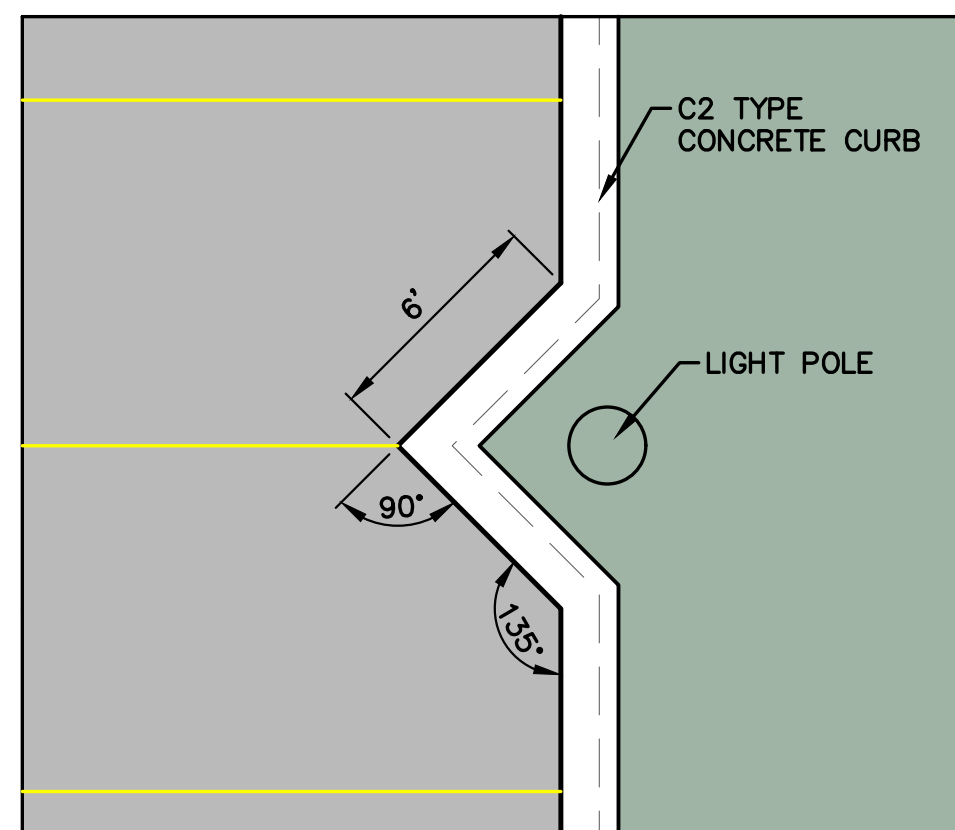


**JOINT DETAIL**  
NOT TO SCALE

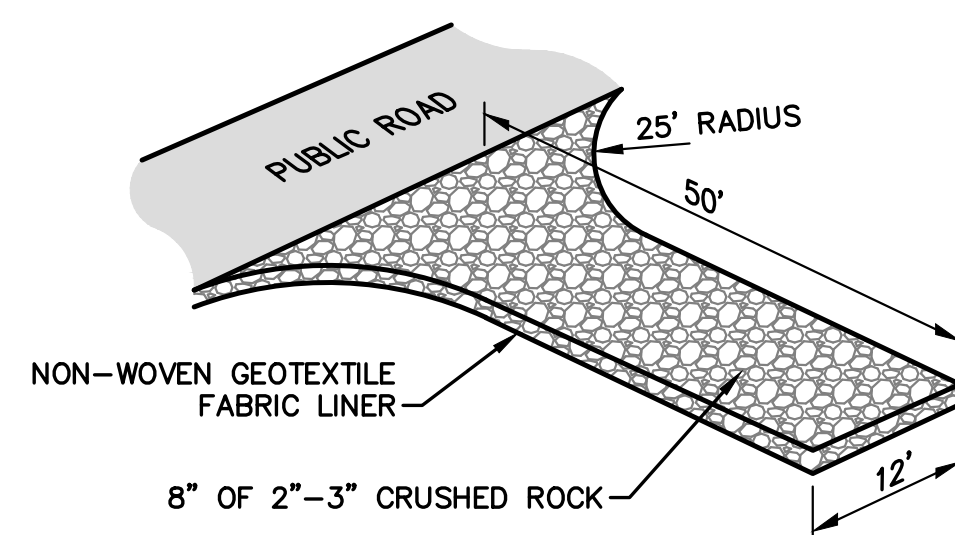
**SILT FENCE DETAILS**



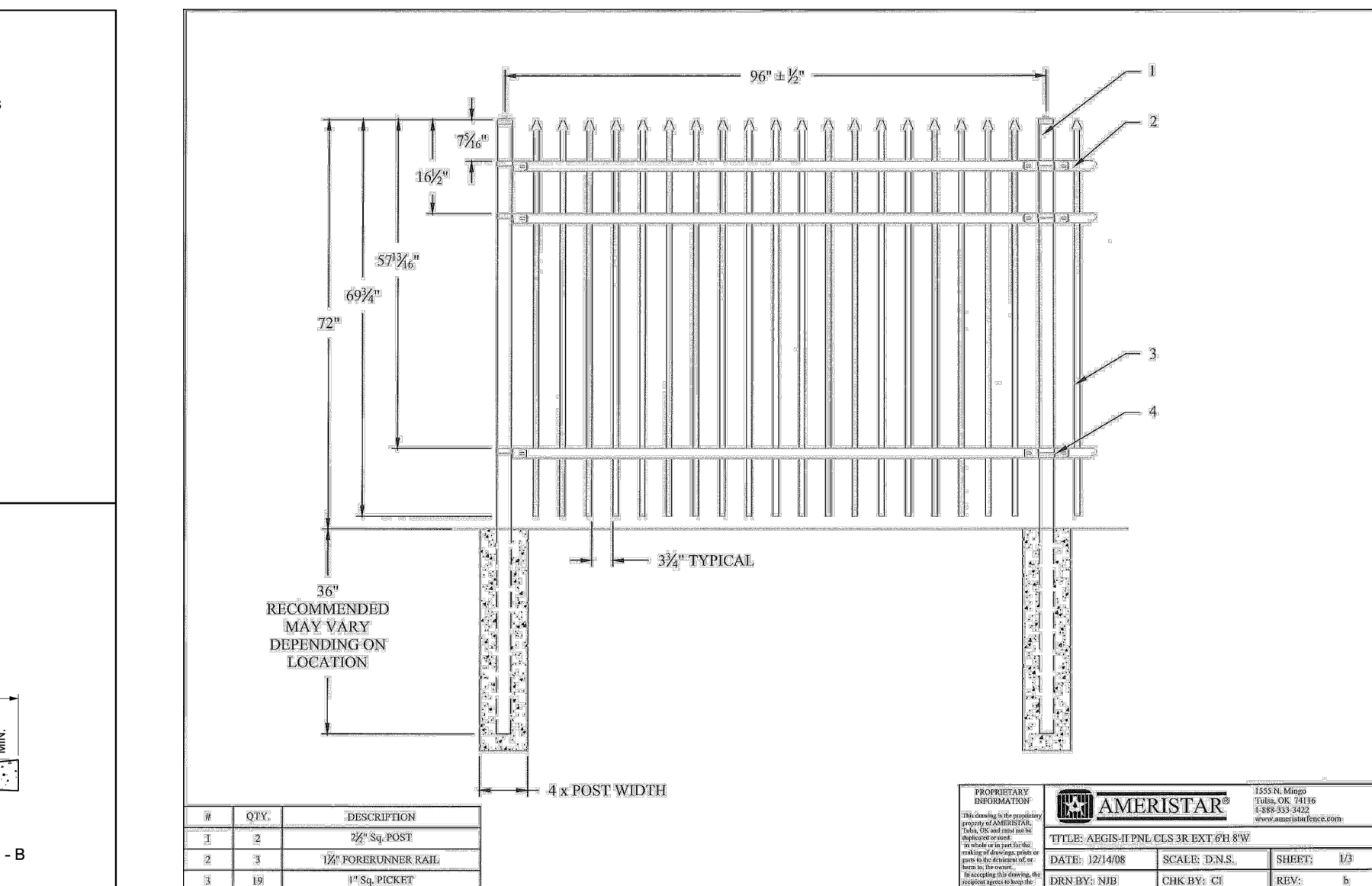
STANDARD PLAN FOR DRIVEWAY OPENINGS & APPROACHES, AND CONCRETE SIDEWALK  
**R-29-J**



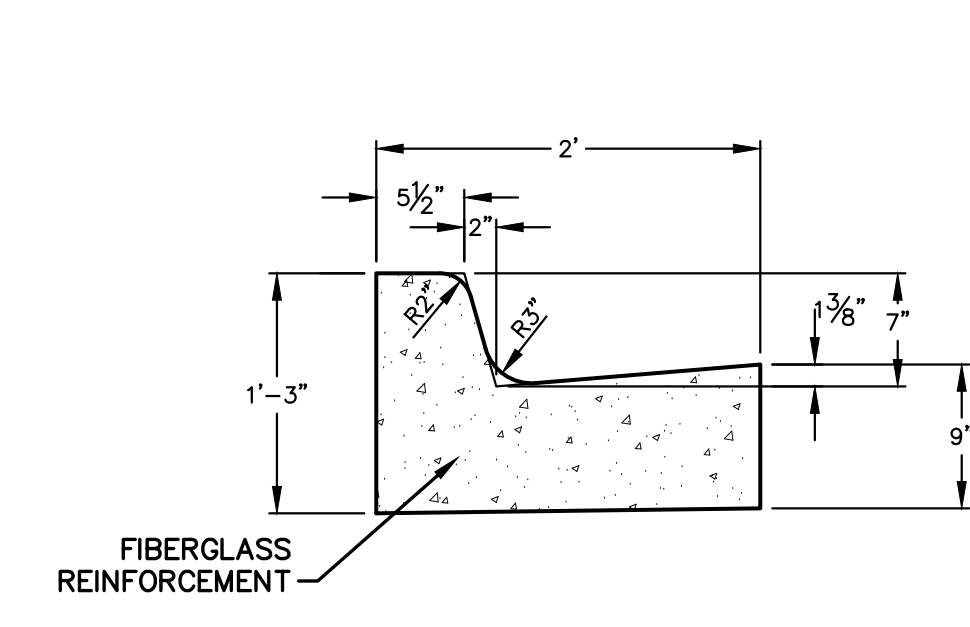
**CURB AT LIGHT POLE FOOTING**  
SCALE 1"=1'-0"



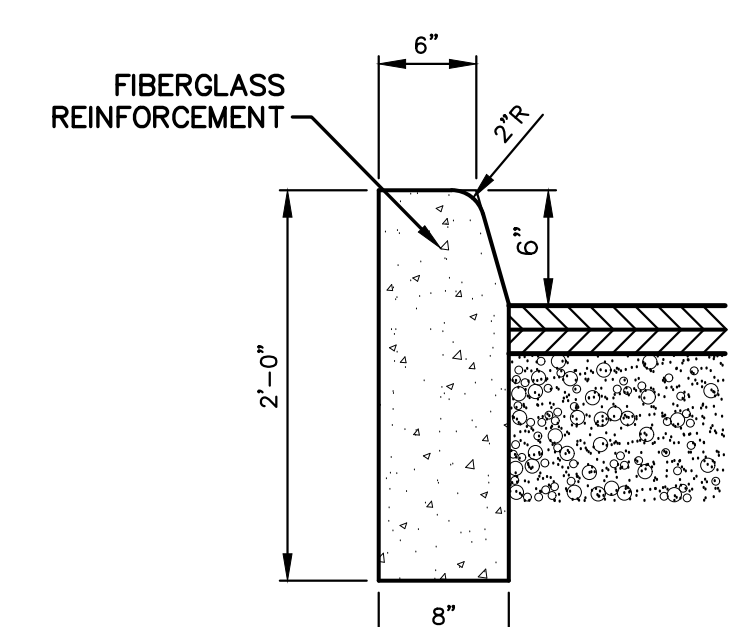
**S53 STABILIZED CONSTRUCTION ACCESS**  
NOT TO SCALE



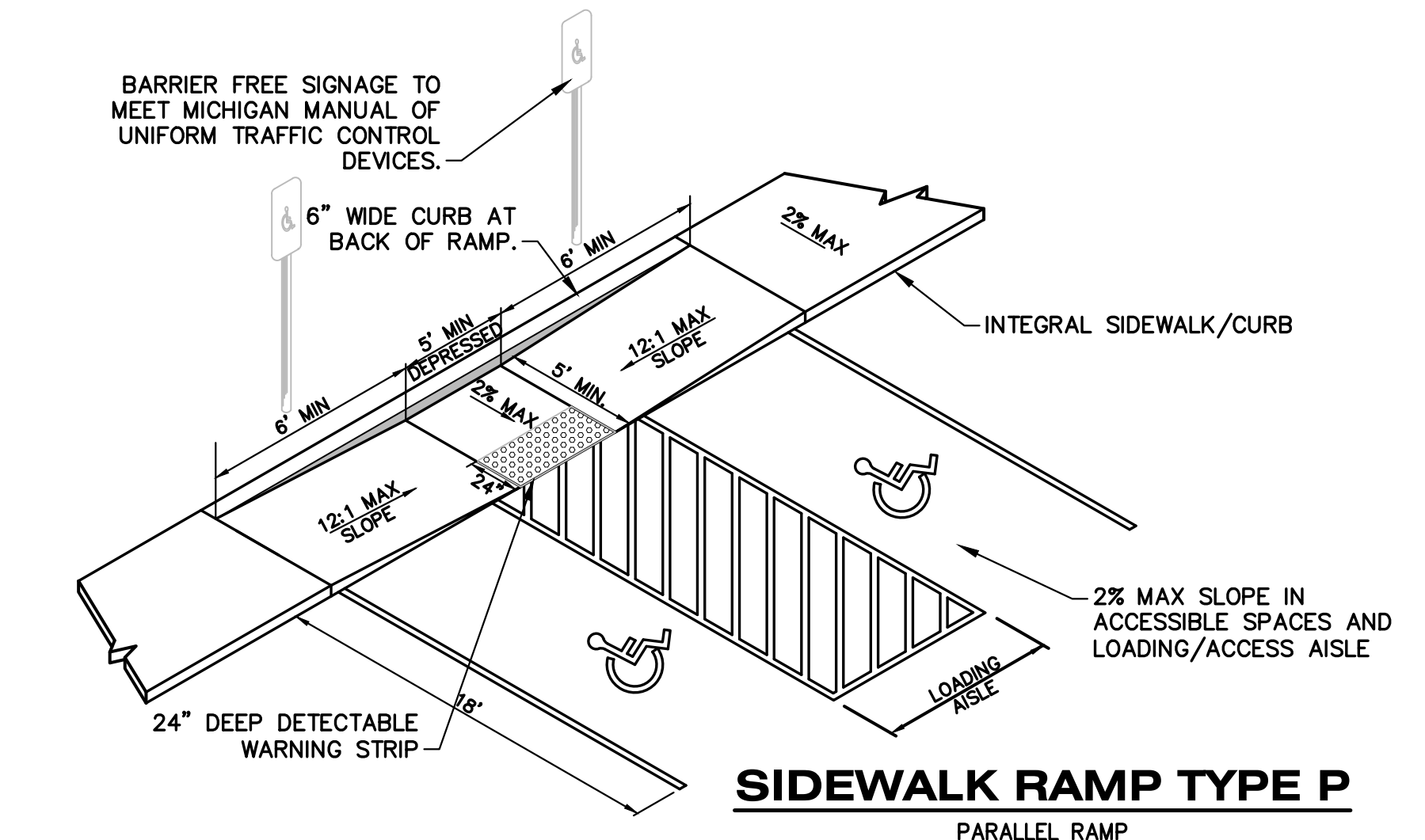
**PRIVACY FENCE DETAIL**  
NOT TO SCALE



**"C4" CURB DETAIL**  
NOT TO SCALE



**"E2" CURB DETAIL**  
NOT TO SCALE



**SIDEWALK RAMP TYPE P**  
PARALLEL RAMP

Job No. 23-082D - P.M.-TDH - DRH-LAD -QA/QC-8/6/24  
ISSUED FOR REVISIONS:  
1. SITE PLAN REVIEW 3/1/24  
2. ELECTRIC SERVICE REVISIONS 6/3/24  
3. PRE APP REVIEW 7/17/24  
4. SITE PLAN REVIEW 8/13/24  
5. SITE PLAN REVIEW 8/13/24  
COPYRIGHT © of Hurley & Stewart, LLC

**SITE DETAILS**  
**RESIDENCE INN AIRVIEW BLVD**  
**H&G**

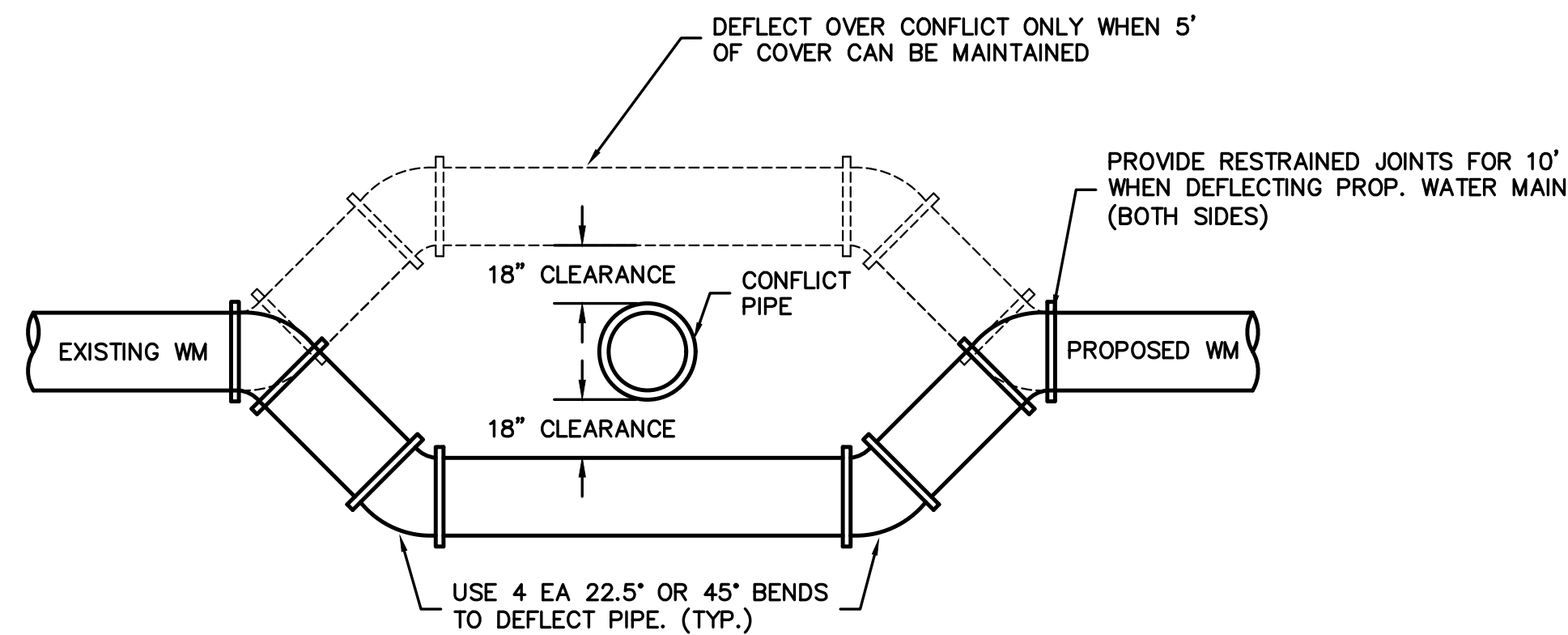
Sheet Title:  
Project:  
Client:  
8/13/24  
Sheet  
**C-6**

hurley & stewart, llc  
2800 s. 11th street  
kalamazoo, michigan 49009  
269.552.4960 fax 269.552.4961  
www.hurleystewart.com



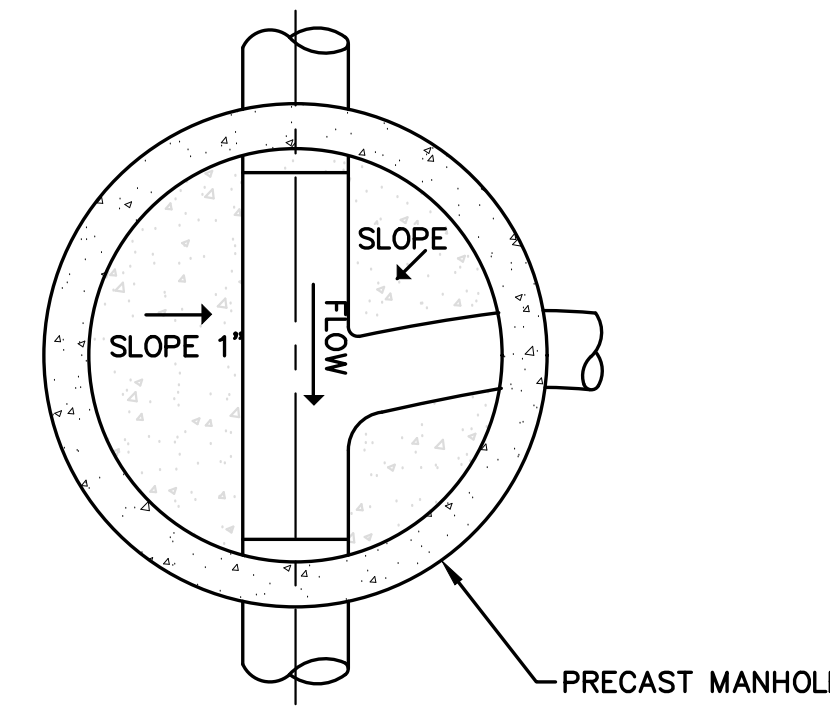


DRAWING LOCATION: H:\3-082D (Burmaster Redevelopment)\FINAL DRAWINGS\3-7 UTILITY DETAILS.dwg LAST SAVER BY: LEBCH ON 8/13/2024

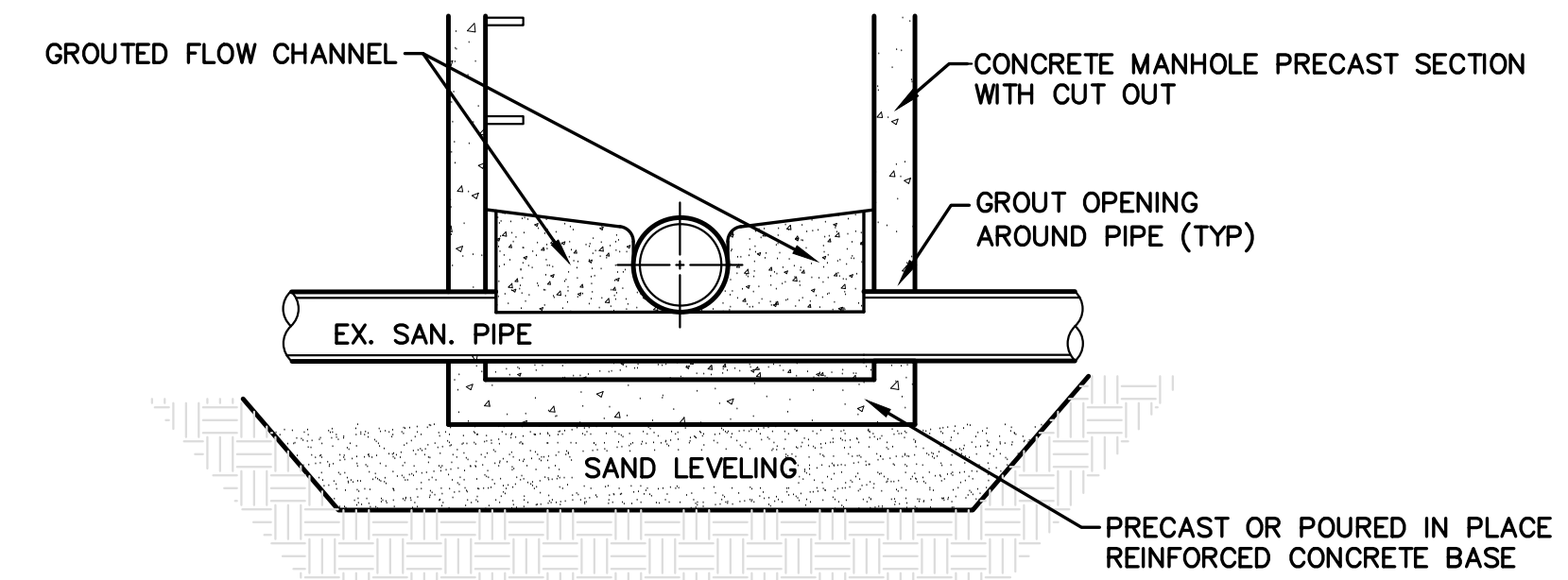


NOTE:  
RESTRAIN ALL JOINTS IN DEFLECTION AREA.  
RESTRAINED JOINTS SHALL COMPLY WITH THE  
CITY OF KALAMAZOO STANDARD  
SPECIFICATIONS, 2021 EDITION.

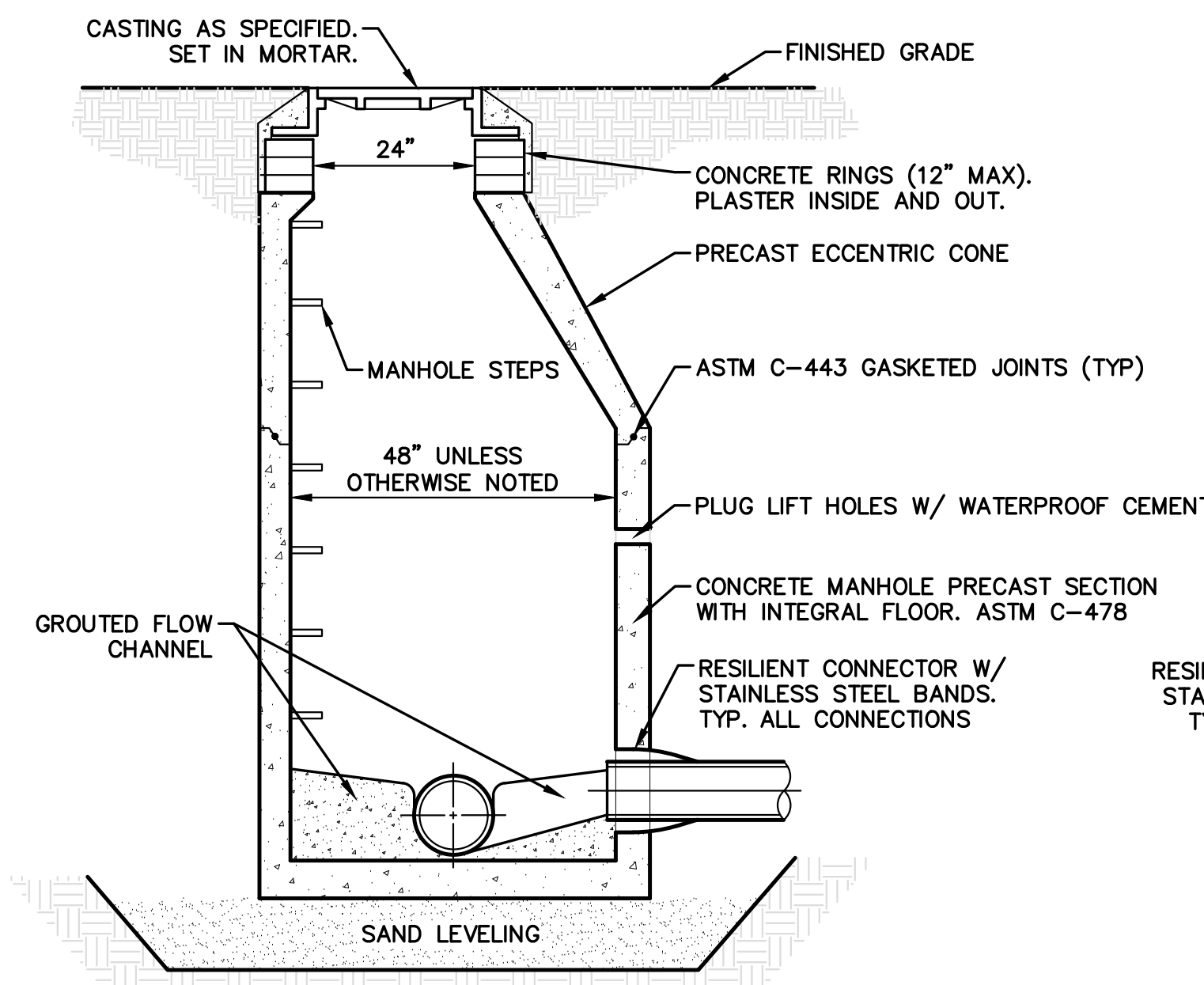
**WATER MAIN DEFLECTION DETAIL**  
NO SCALE



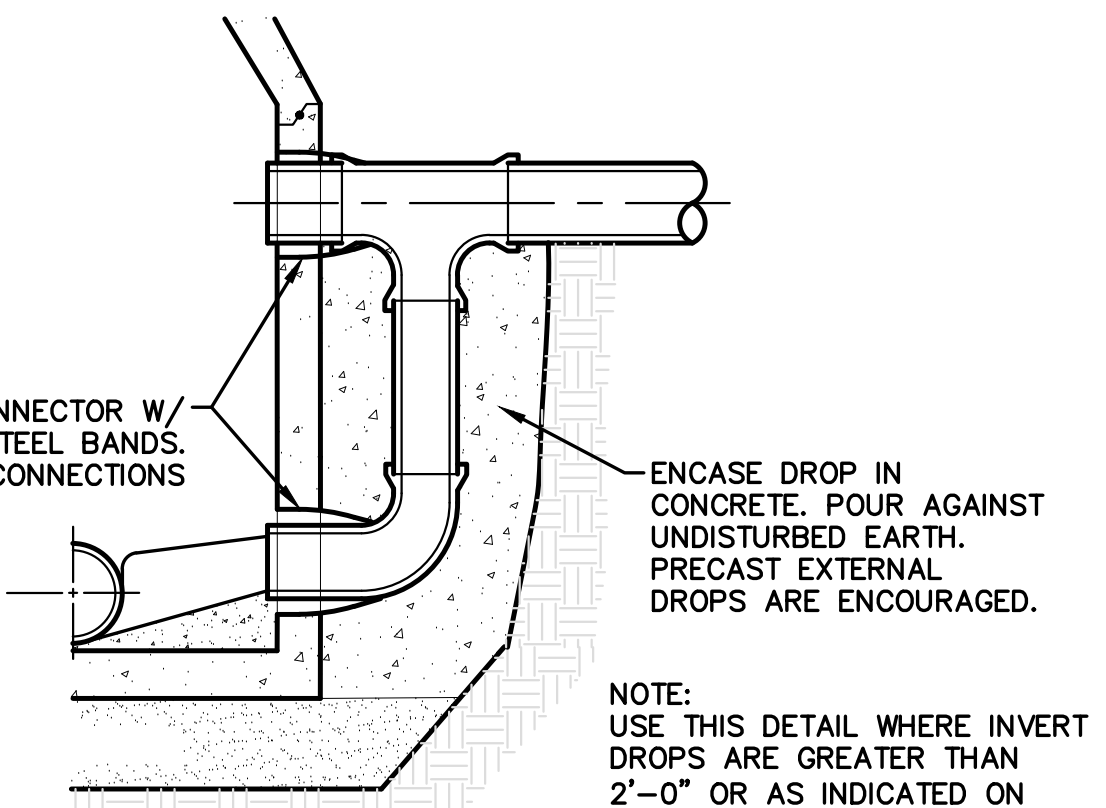
PLAN VIEW



MH OVER EX. SANITARY SEWER



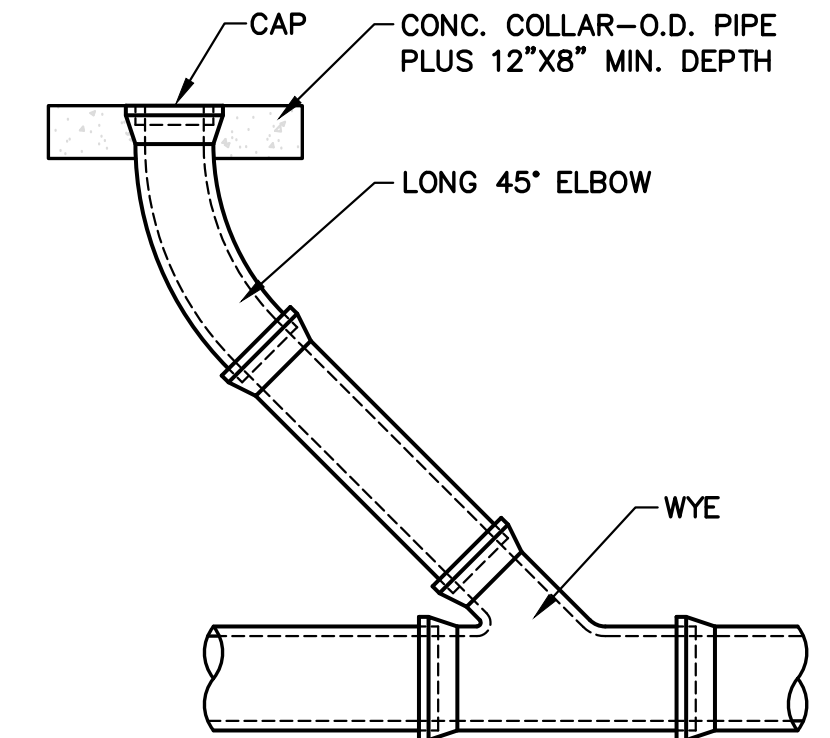
STANDARD MH SECTION



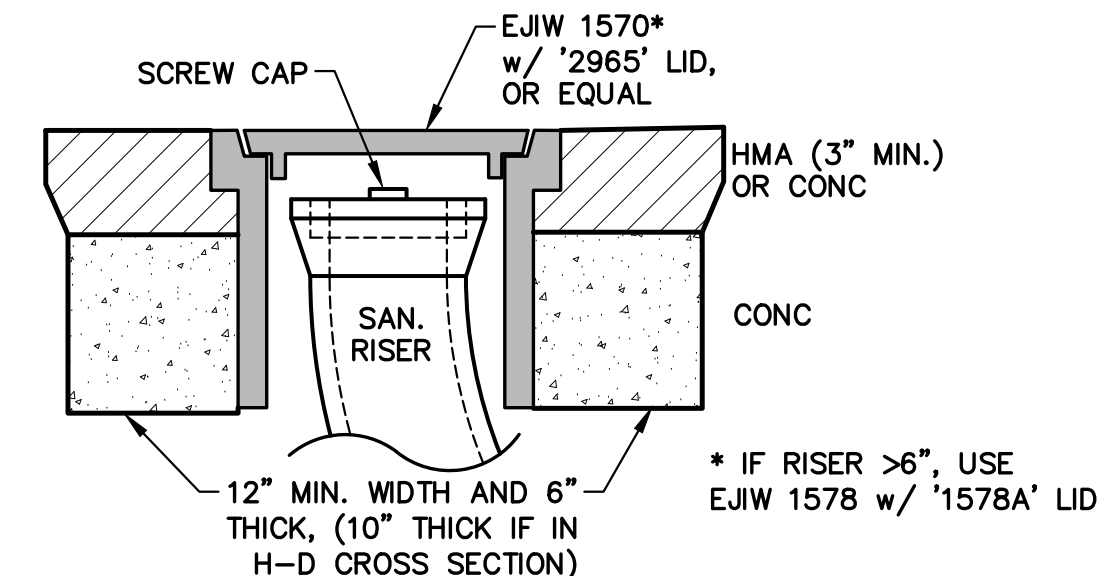
DROP MH SECTION

NOTE:  
USE THIS DETAIL WHERE INVERT  
DROPS ARE GREATER THAN  
2'-0" OR AS INDICATED ON  
PLANS. INSIDE DROPS ARE NOT  
ALLOWED.

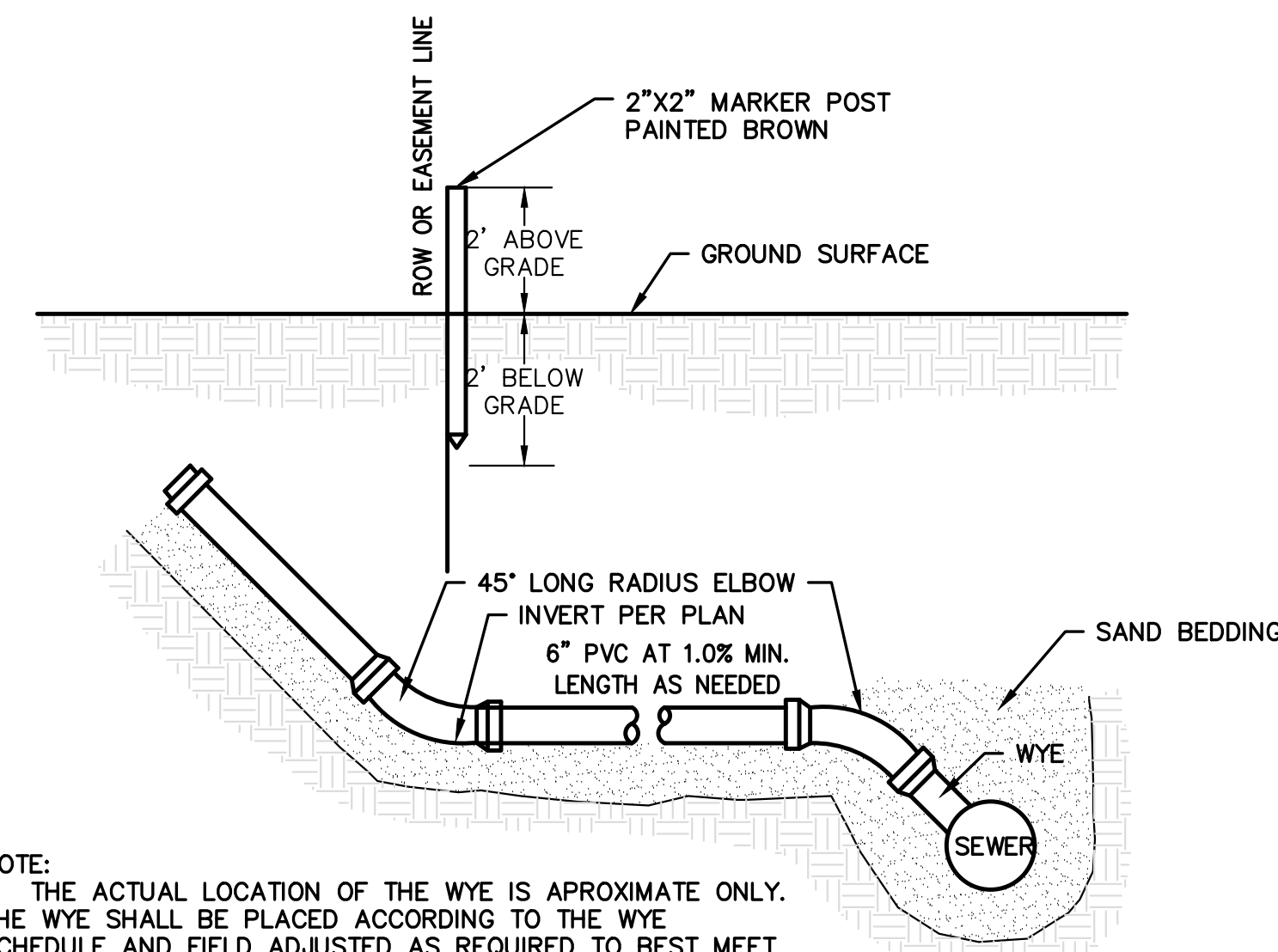
**SANITARY MANHOLE DETAILS**  
NOT TO SCALE



**SANITARY CLEANOUT DETAIL**  
NO SCALE



**CLEANOUT IN PAVEMENT/CONC AREA**  
NO SCALE



NOTE:  
1. THE ACTUAL LOCATION OF THE WYE IS APPROXIMATE ONLY.  
THE WYE SHALL BE PLACED ACCORDING TO THE WYE  
SCHEDULE AND FIELD ADJUSTED AS REQUIRED TO BEST MEET  
THE NEEDS OF THE PROPERTY.

2. RECORD ALL WYE LOCATIONS ON THE DRAWINGS.

**SANITARY LEAD DETAIL**  
NO SCALE

ITEM QTY.	#	DESCRIPTION
1	1	39887 6" HYDRANT
2	2	70000 CONNECTING PIECE (13')
3	4	33801 6" GASKET (MJ)
4	1	96696 6" GATE VALVE (MJ)
5	1	08550 VALVE BOX BOTTOM
6	1	08520 VALVE BOX TOP SECTION
7	1	08500 VALVE BOX RING CASTING
8	1	08480 VALVE BOX COVER
9	1	91440 6" TEE MJ
10	1	91525 8" X 6" TEE MJ W/MEGALUGS
11	1	91750 10" X 6" TEE MJ W/MEGALUGS
12	1	91825 12" X 6" TEE MJ W/MEGALUGS
13	1	91909 16" X 6" TEE MJ W/MEGALUGS
14	1	91940 20" X 6" TEE MJ W/MEGALUGS

**WA-1-C**

DOUBLE SIDED HYDRANT SIGN

IS NOT PRESENT / IS PRESENT

5' SIDEWALK SIDEWALK

FINISHED

5' MIN. COVER

ADJ. VALVE BOX

M.J. INLET

6" CONNECTING PIECE W/INTEGRALLY CAST STD. M.J. GLAND LENGTH MAY VARY

WATER MAIN MECHANICAL JOINT TEE WITH MEGA LUGS OR TAPPING SADDLE W/FLANGE

1/2 CYD CRUSHED STONE FOR DRAINAGE

NOTE: NO TIE RODS ALLOWED

CITY OF KALAMAZOO  
Department of Public Services

TYPICAL FIRE HYDRANT & GATE VALVE DETAIL

RECOMMENDED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_  
ACCEPTED BY: \_\_\_\_\_

**hurley & stewart**  
2800 s. 11th street  
kalamazoo, michigan 49009  
269.552.4960 fax 269.552.4961  
www.hurleystewart.com

Job No. 23-082D - P.M.-TDH - Drt.-LAD -QA/QC- B/6/24

ISSUED FOR/REVISIONS:	DATE
1. SITE PLAN REVIEW	3/1/24
2. ELECTRIC SERVICE REVISIONS	6/3/24
3. PRE APP REVIEW	7/17/24
4. SITE PLAN REVIEW	8/13/24
5. SITE PLAN REVIEW	8/13/24

COPYRIGHT © of Hurley & Stewart, LLC

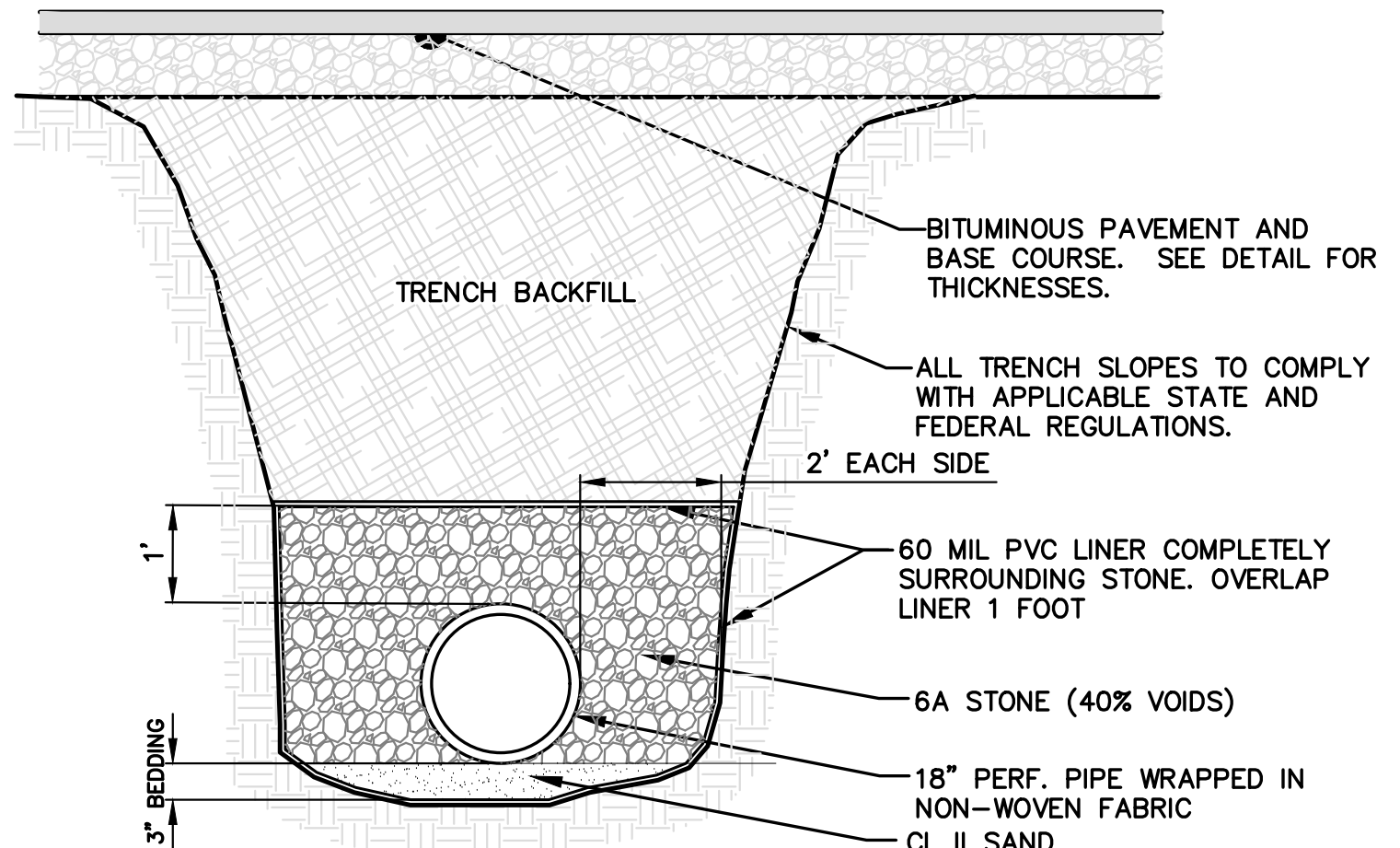
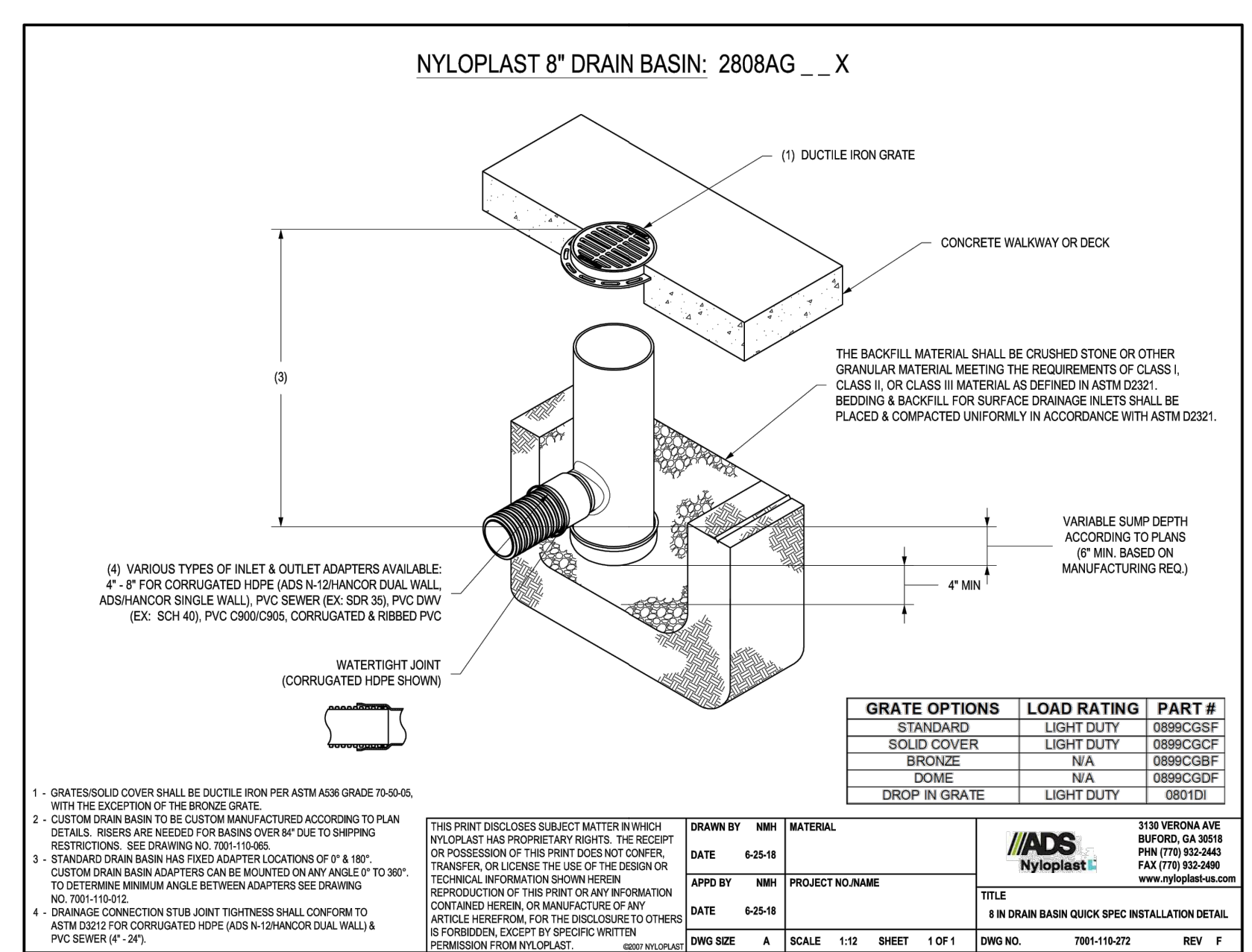
**UTILITY DETAILS**  
**RESIDENCE INN AIRVIEW BLVD**  
**H&G**

Sheet Title:  
Project:  
Client:

8/13/24  
Sheet  
**C-7**



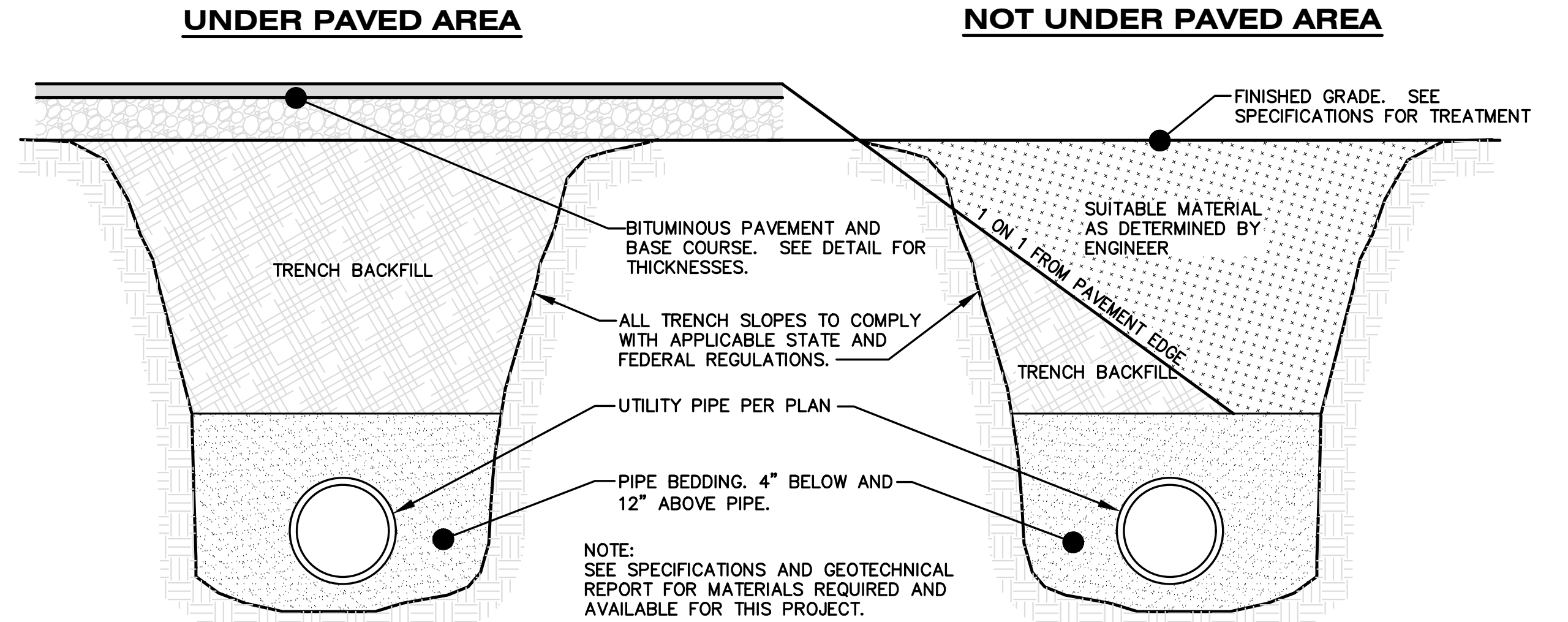
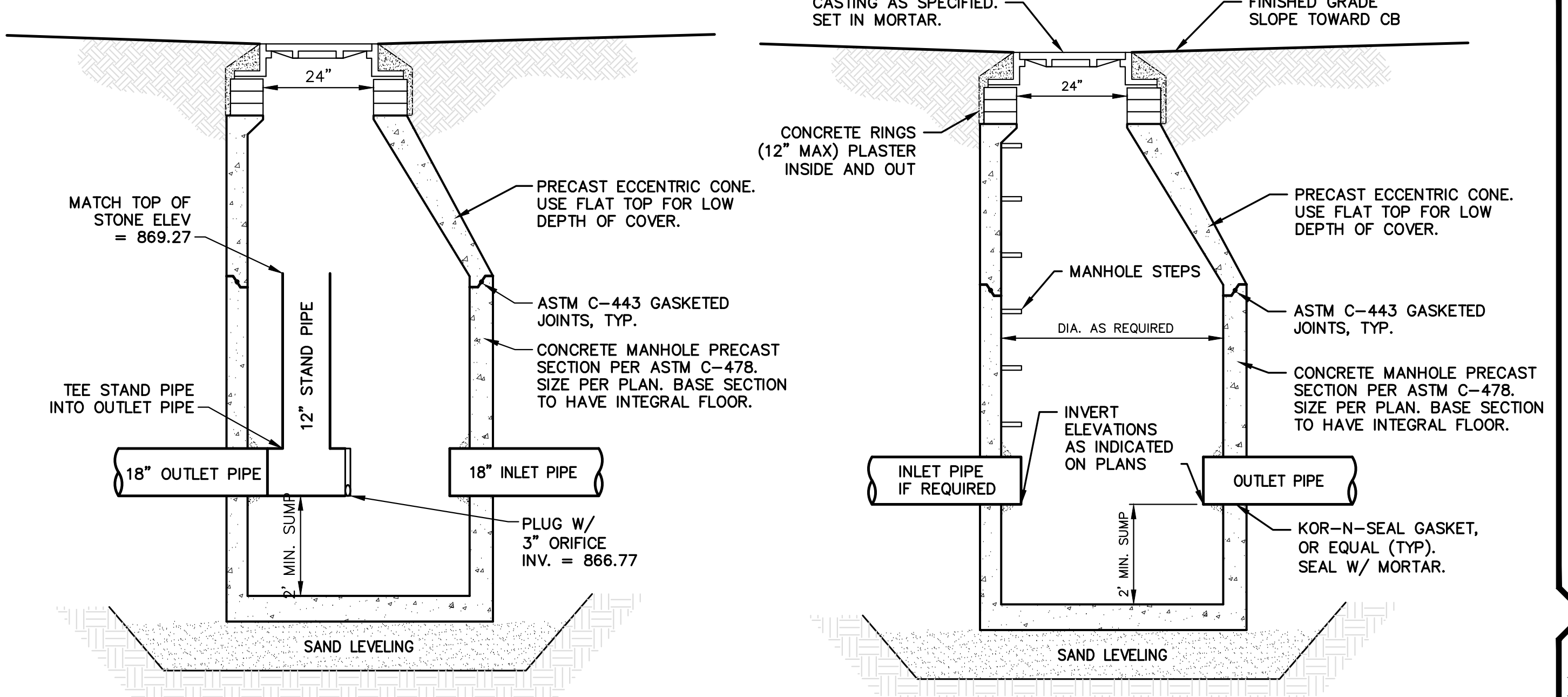
DRAWING LOCATION: H:\3-082D (Barracuda Revisions)\FINAL DRAWINGS\3-8 Stormwater Details.dwg LAST SAVED BY: MSOURVILLE ON 8/13/2024



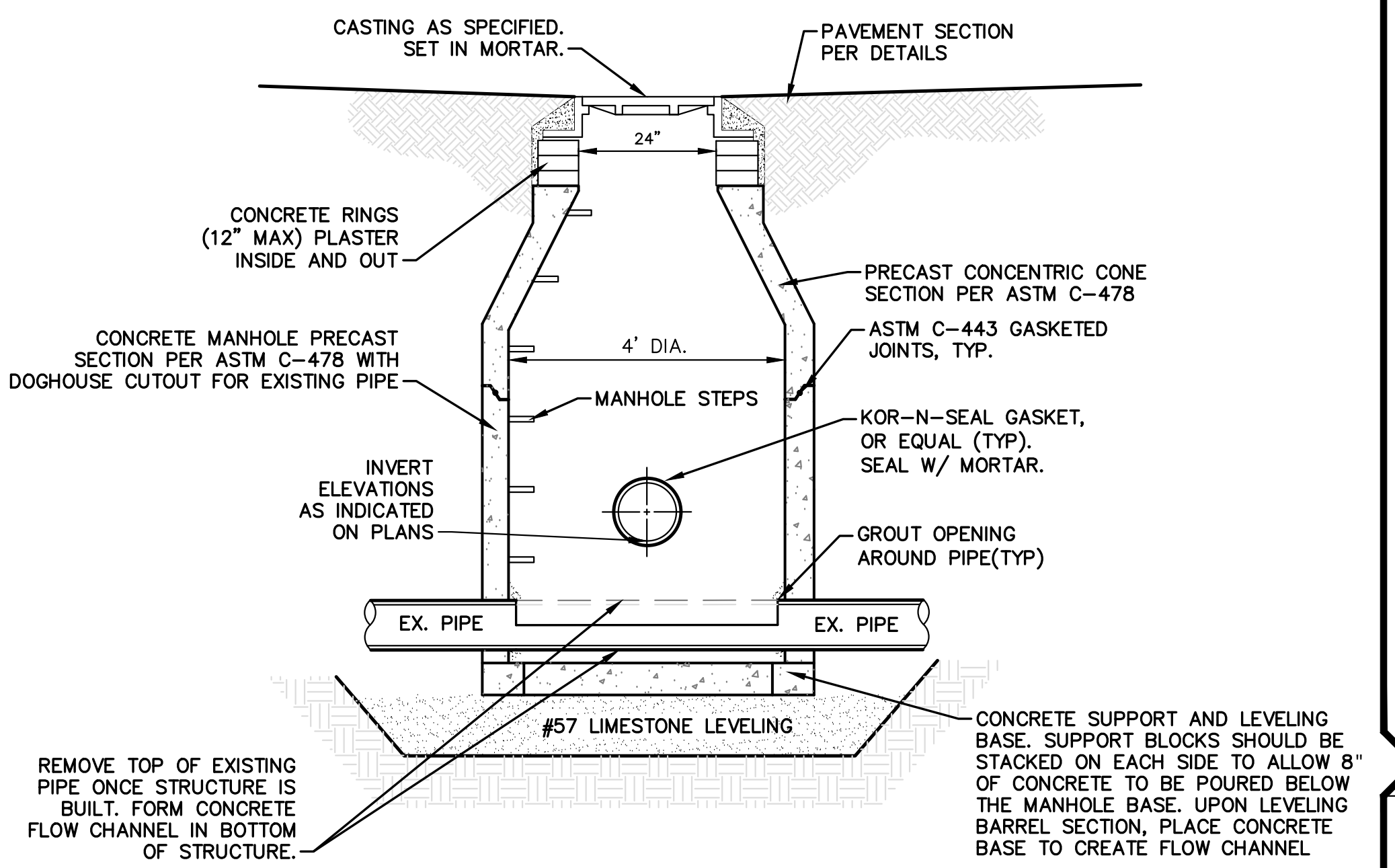
**STONE TRENCH WITH PERF PIPE DETAIL**  
NO SCALE

**OUTLET CONTROL STRUCTURE DETAIL**  
NO SCALE

**CATCH BASIN DETAIL**  
NO SCALE



**TRENCH DETAILS**  
NO SCALE

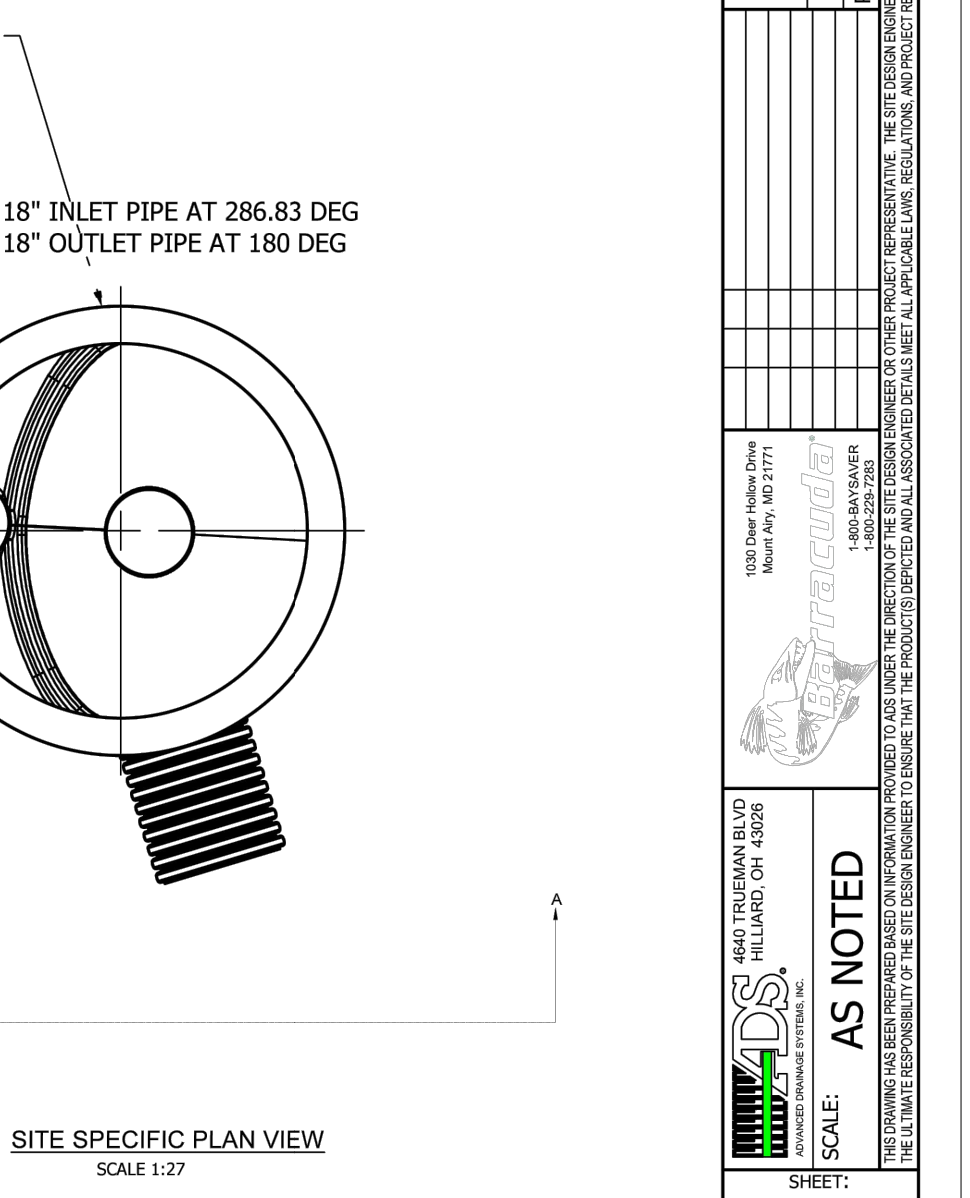
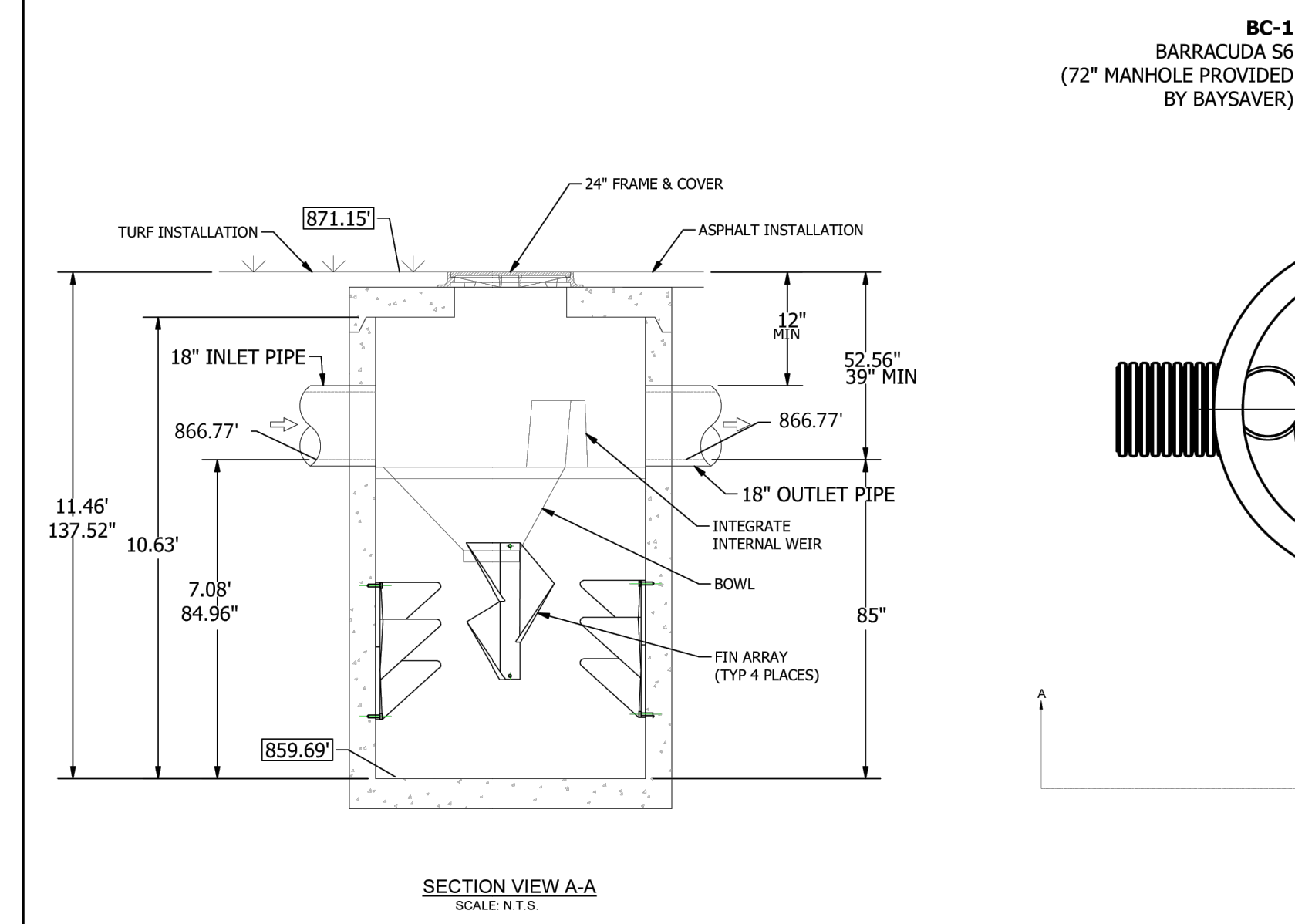


**DOGHOUSE MANHOLE DETAIL**  
NOT TO SCALE

**PRODUCT SPECIFICATIONS**

- THE STORMWATER TREATMENT UNIT SHALL BE AN IN-LINE UNIT CAPABLE OF CONVEYING 100% OF THE DESIGN PEAK FLOW. IF PEAK FLOW RATES EXCEED MAXIMUM HYDRAULIC RATE, THE UNIT SHALL BE INSTALLED OFF-LINE.
- THE BARRACUDA UNIT SHALL BE DESIGNED TO REMOVE AT LEAST 80% OF THE SUSPENDED SOLIDS ON AN ANNUAL AGGREGATE REMOVAL BASIS. SAID REMOVAL SHALL BE BASED ON FULL-SCALE, THIRD PARTY TESTING USING 0K-110 MEDIA (GRAVITATION OR EQUIVALENT) AND 300 mg/L INFLUENT CONCENTRATION. SAID FULL SCALE TESTING SHALL HAVE INCLUDED SEDIMENT CAPTURE BASED ON ACTUAL TOTAL MASS COLLECTED BY THE STORMWATER TREATMENT UNIT.
- OR - THE BARRACUDA UNIT SHALL BE DESIGNED TO REMOVE AT LEAST 80% OF TSS USING A MEDIA MIX WITH 650-75 MICRON AND 200 MG/L INFLUENT CONCENTRATION.
- OR - THE BARRACUDA UNIT SHALL BE DESIGNED TO REMOVE AT LEAST 80% OF TSS PER CURRENT NJDEP/NACCAT HDS PROTOCOL.

BARRACUDA S6	
UNIT ID	S6
PEAK FLOW RATE CFS	N/A
TREATMENT FLOW RATE CFS	2.3
TREATMENT FLOW RATE PER	OK-110



**BREWSTER'S RECONSTRUCTION**  
 DATE: 6/25/16  
 PROJECT #:  
 DRAWN: [Signature]  
 CHECKED: [Signature]  
 SCALE: AS NOTED  
 SHEET: 1 OF 1

**hurley & stewart**  
 2800 s. 11th street  
 kalamazoo, michigan 49009  
 269.552.4960 fax 269.552.4961  
 www.hurleystewart.com

Job No. 23-082D - P.M.-TDH - Drt.-LAD -QA/QC- B/6/24

ISSUED FOR/REVISIONS:	DATE
1. SITE PLAN REVIEW	3/1/24
2. ELECTRIC SERVICE REVISIONS	6/3/24
3. PRE APP REVIEW	7/17/24
4. SITE PLAN REVIEW	8/13/24

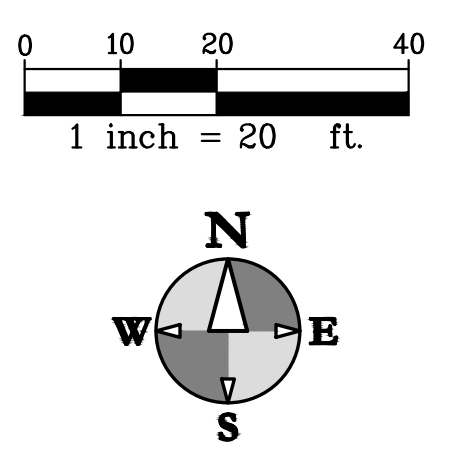
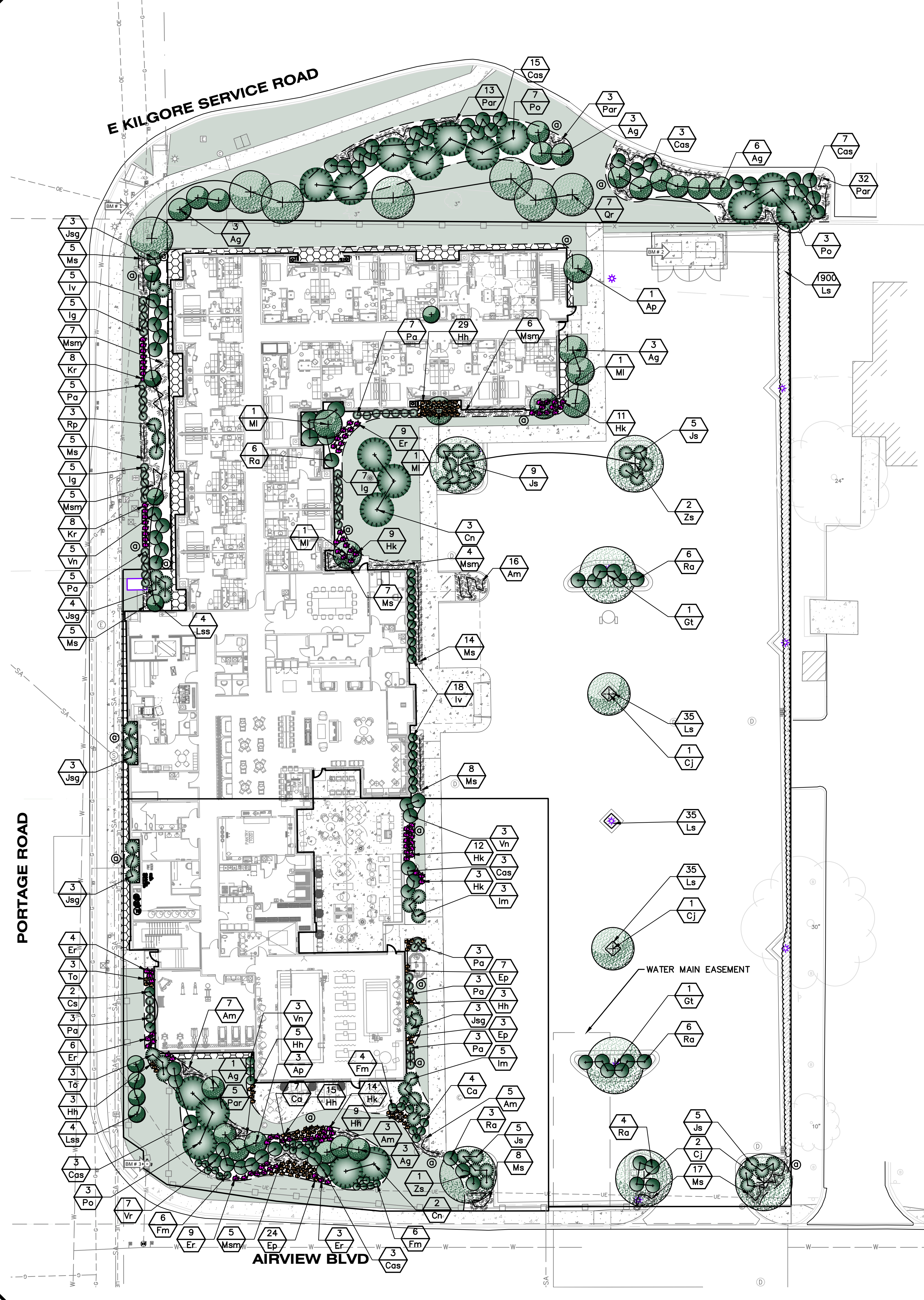
COPYRIGHT © of Hurley & Stewart, LLC

**STORMWATER DETAILS**  
**RESIDENCE INN AIRVIEW BLVD**  
**H&G**

Sheet Title:  
 Project:  
 Client:  
 8/13/24  
 Sheet  
**C-8**



DRAWING LOCATION: 113-0822 (Western Rejuvenation) FINAL DRAWINGS - Landscape Proposed - LAST SAVED BY: LSH ON 8/13/2024



Planting Schedule Trees					
Symbol	Latin Name	Common Name	Size	Container Type	Comments
Ap	Acer palmatum 'Shishigashira'	Shishigashira Japanese Maple	2" Cal.	B&B	
Ag	Amelanchier x gradiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	7' Ht.	B&B	Clump Form 3-5 stems.
Cj	Cercidiphyllum japonicum	Katsura Tree	2" Cal.	B&B	
Cn	Chamaecyparis nootkatensis 'Pendula'	Weeping Nootka Cypress	6' Ht.	B&B	
Gt	Gleditsia triacanthos inermis 'Suncole'	Sunburst Honeylocust	2 1/2" Cal.	B&B	
Lss	Liquidambar styraciflua 'Slender Silhouette'	Columnar Sweet Gum	2 1/2" Cal.	B&B	
Ml	Magnolia x loebneri 'Merrill'	Dr. Merrill Magnolia	2 1/2" Cal.	B&B	Tree Form
Po	Picea omorika	Serbian Spruce	6'-10' Ht.	B&B	3 different sized trees equally distributed
Qr	Quercus robur 'Fastigiata'	Pyramidal English Oak	3" Cal.	B&B	
Zs	Zelkova serrata 'Green Vase'	Green Vase Zelkova	2 1/2" Cal.	B&B	

Planting Schedule Shrubs					
Symbol	Latin Name	Common Name	Size	Container Type	Comments
Cas	Cornus alba 'Sibirica'	Red Twig Dogwood	30" Ht.	Cont.	
Ca	Clethra alnifolia 'Sixteen Candles'	Sixteen Candles Summersweet	30" Ht.	Cont.	
Cs	Chaenomeles speciosa 'Texas Scarlet'	Texas Scarlet Flowering Quince	24" Ht.	B&B or Cont.	
Fm	Fothergilla major 'Mt. Airy'	Mt. Airy Fothergilla	30" Ht.	Cont.	
Im	Ilex x meserveae 'Mesog' & 'Mesdob'	China Girl and China Boy Holly	36" Ht.	B&B	Plant one China Boy for every 4 China Girl shrubs.
Ig	Ilex glabra 'Compacta'	Compact Inkberry	24" Ht.	Cont.	
Iv	Itea virginica 'Henry's Garnet'	Henry's Garnet Sweetspire	24" Ht.	Cont.	Well branched shrubs
Js	Juniperus sibirica 'Broadmoor'	Broadmoor Juniper	24" spread	Cont.	
Jsg	Juniperus sibirica 'Gray Gleam'	Gray Gleam Juniper	6" Ht.	B&B	
Pa	Picea abies 'Little Gem'	Little Gem Norway Spruce	18" Ht.	B&B or Cont.	
Rp	Rhododendron x 'PJM'	PJM Rhododendron	30" Ht.	Cont.	
Ra	Rhus aromatica 'Gro-Low'	Gro-Low Aromatic Sumac	24" spread	Cont.	
To	Thuja occidentalis 'Degroot's Spire'	Degroot's Spire Arborvitae	5' Ht.	B&B or Cont.	
Vn	Viburnum nudum 'Winterthur'	Winterthur Viburnum	30" Ht.	Cont.	
Vr	Viburnum x rhytidophylloides 'Allegheny'	Allegheny Viburnum	42" Ht.	Cont.	

Planting Schedule Perennials					
Symbol	Latin Name	Common Name	Size	Container Type	Comments
Am	Allium 'Millenium'	Millennium Ornamental Onion	#1	Cont.	
Ep	Echinacea purpurea	Purple Coneflower	#1	Cont.	15" o.c.
Er	Eupatorium rugosum 'Chocolate'	Chocolate Joe-Pye	#1	Cont.	24" o.c.
Hh	Heuchera hybrid 'Wildberry'	Dolce 'Wildberry' Coral Bells	#1	Cont.	
Hk	Hosta 'Krossa Regal'	Krossa Regal Hosta	#1	Cont.	30" o.c.
Ls	Liriope spicata	Creeping Lily-turf	cell	flat of 38	8" o.c.
Ms	Miscanthus sinensis 'Gold Breeze'	Gold Breeze Silver Grass	#1	Cont.	36" o.c.
Msm	Miscanthus sinensis 'Malepartus'	Malepartus Silver Grass	#1	Cont.	36" o.c.
Par	Pennisetum alopecuroides 'Red Head'	Fountain Grass 'Red Head'	#1	Cont.	24" o.c.

**LANDSCAPE NOTES:**

- LAWN AREAS TO BE PLANTED WITH UPLAND MINERAL SOIL GROWN BLUEGRASS SOD. SOD TO HAVE BEEN HARVESTED WITHIN 24 HOURS OF PLANTING. ENSURE A SOURCE OF WATER BEFORE SCHEDULING SOD PLANTING. PREPARE SOIL TO RECEIVE SOD WITH A 19-19-19 STARTER FERTILIZER AT A RATE OF 5-7 LBS/1000 SFT.
- ALL EDGING SHALL BE STANDARD COMMERCIAL-STEEL EDGING 3/4" x 4", ROLLED EDGE, FABRICATED IN SECTIONS OF STANDARD LENGTHS, WITH LOOPS STAMPED FROM OR WELDED TO FACE OF SECTIONS TO RECEIVE STAKES IN STANDARD FINISH OF GREEN PAINT.
- PROVIDE QUALITY, SIZE, GENUS, SPECIES, AND VARIETY OF EXTERIOR PLANTS INDICATED, COMPLYING WITH APPLICABLE REQUIREMENTS IN ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK," MEASURE ACCORDING TO ANSI Z60.1 STANDARDS.
- WARRANTY TREES, SHRUBS AND PERENNIALS FOR ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM INCIDENTS THAT ARE BEYOND CONTRACTOR'S CONTROL.
- REMOVE AND REPLACE DEAD PLANTS IMMEDIATELY. REPLACE PLANTS THAT ARE MORE THAN 25% DEAD OR IN AN UNHEALTHY CONDITION AT END OF WARRANTY PERIOD. A LIMIT OF ONE REPLACEMENT OF EACH PLANT WILL BE REQUIRED, EXCEPT FOR LOSSES OR REPLACEMENTS DUE TO FAILURE TO COMPLY WITH REQUIREMENTS.
- MAINTAIN TREES, SHRUBS, AND PERENNIALS FOR ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION BY PRUNING, CULTIVATING, WATERING, WEEDING, FERTILIZING, RESTORING PLANTING SAUCERS, TIGHTENING AND REPAIRING STAKES AND GUY SUPPORTS, AND RESETTING TO PROPER GRADES OR VERTICAL POSITION, AS REQUIRED TO ESTABLISH HEALTHY VIABLE PLANTINGS. SPRAY AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE.
- BEGIN LAWN MAINTENANCE IMMEDIATELY AFTER EACH AREA IS PLANTED AND CONTINUE UNTIL ACCEPTABLE LAWN IS ESTABLISHED: A MINIMUM OF 60 DAYS AFTER SUBSTANTIAL COMPLETION.
- MAINTAIN AND ESTABLISH LAWN BY WATERING, FERTILIZING, WEEDING, USING CHEMICAL TREATMENT TO ELIMINATE BROADLEAF AND NOXIOUS WEEDS, MOWING, TRIMMING, REPLANTING, AND OTHER OPERATIONS. ROLL, REGRADE, AND REPLANT BARE OR ERODED AREAS AND REMULCH TO PRODUCE A UNIFORMLY SMOOTH LAWN.
- REMOVE STONES LARGER THAN 1" IN ANY DIMENSION AND REMOVE STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEOUS MATTER FROM SITE.
- MAINTAIN LAWN UNTIL A HEALTHY, UNIFORM, CLOSE STAND OF GRASS HAS BEEN ESTABLISHED, FREE OF WEEDS AND SURFACE IRREGULARITIES, WITH COVERAGE EXCEEDING 90% OVER ANY 10 SQFT AND BARE SPOTS DO NOT EXCEED 5 BY 5 INCHES.
- DO NOT PLACE STONE COBBLE DURING WET WEATHER. DO NOT PLACE DIRTY OR MUDDY COBBLE ON BARRIER FABRIC.
- APPLY PRE-EMERGENT HERBICIDE TO ALL PLANTING BEDS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS REAPPLY AS RECOMMENDED BY PRODUCT DURING ONE YEAR WARRANTY PERIOD.

**LEGEND**

- NUMBER AND TYPE OF PLANTS TO BE PROVIDED AND INSTALLED.
- PLANT SOD.
- SEEDED LAWN.
- PERENNIAL PLANTING. SEE PLANTING SCHEDULE FOR PLANT SPACING REQUIREMENTS.
- STONE COBBLE MULCH 2-3" DIA. NATURAL STONE COBBLE WASHED OVER FILTER FABRIC.
- PROPOSED DECIDUOUS TREE
- PROPOSED EVERGREEN TREE
- PROPOSED SHRUBS, EVERGREEN AND DECIDUOUS
- PROPOSED ORNAMENTAL GRASS
- STEEL LANDSCAPE EDGING.

**IRRIGATION NOTES:**

- LANDSCAPE CONTRACTOR TO PROVIDE LAYOUT AND DETAILS FOR FULL IRRIGATION SYSTEM PRIOR TO INSTALLATION.
- ALL LANDSCAPE AREAS AND LAWNS ADJACENT TO PAVED AREAS AND/OR STREETS ARE TO BE FULLY IRRIGATED.
- IRRIGATION SYSTEM TO INCLUDE ALL SPRAY HEADS, VALVES AND CONTROLLERS.
- A SEPARATE METER AND BACKFLOW PREVENTER WILL BE REQUIRED.
- LOCATE HEADS A MINIMUM OF 2'-0" FROM EDGE OF PAVEMENT/ CURB.

**KALAMAZOO PLANTING REQUIREMENTS**

1 TREE/ 35 LFT OF ROW = 349' AND 235' = 9 TREES (PORTAGE RD) 8 TREES (AIRVIEW BLVD)  
 5% INTERIOR LANDSCAPE REQUIRED 33,356 SF x .05 = 1,668 SF REQUIRED 1,886 SF PROVIDED  
 3 SHRUB/ 20' ROAD FRONTAGE AT PARKING = (118 LF/20')3 = 18 SHRUBS  
 1 SHRUB/ 5' BUILDING FACADE = 375 LF/5 = 75 SHRUBS  
 1 TREE/ 300 SQFT OF REQUIRED INTERIOR = 6 TREES  
 1 CANOPY TREE / FRACTION OF AN ACRE = 2 TREES (TREES PLANTED TO MEET OTHER REQUIRED LANDSCAPE AND SCREENING REQUIREMENTS MAY BE APPLIED TO MEET THE TREE CANOPY REQUIREMENT. CHAPTER 50, 50-8.4B (5))



ALL UTILITIES AS SHOWN ARE APPROXIMATE LOCATIONS DERIVED FROM ACTUAL MEASUREMENTS AND AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATION NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THE AREA.  
 FIELD WORK PERFORMED BY:  
 HURLEY & STEWART, LLC

hurley & stewart, llc  
 2800 s. 11th street  
 kalamazoo, michigan 49009  
 269.552.4960 fax 269.552.4961  
 www.hurleystewart.com

ISSUED FOR/REVISIONS:  
 2 SITE PLAN REVIEW 3/1/24  
 3 ELECTRIC SERVICE REVISIONS 6/3/24  
 4 PRE APP REVIEW 7/17/24  
 5 SITE PLAN REVIEW 8/13/24  
 COPYRIGHT © of Hurley & Stewart, LLC

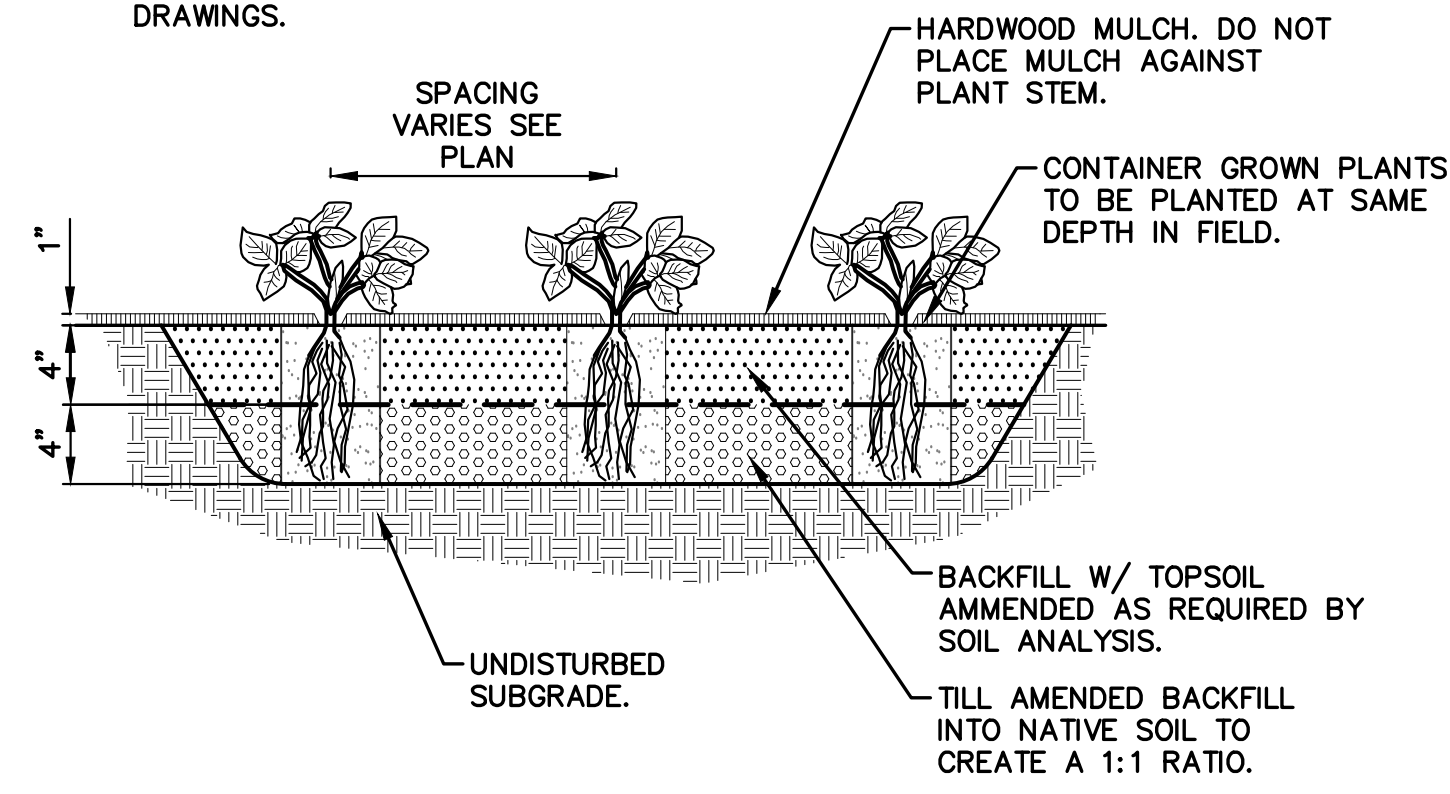
**LANDSCAPE PLAN**  
**RESIDENCE INN AIRVIEW BLVD**  
**H&G**

Sheet Title:  
 Project:  
 Client:  
 8/13/24  
 Sheet  
**L-1**



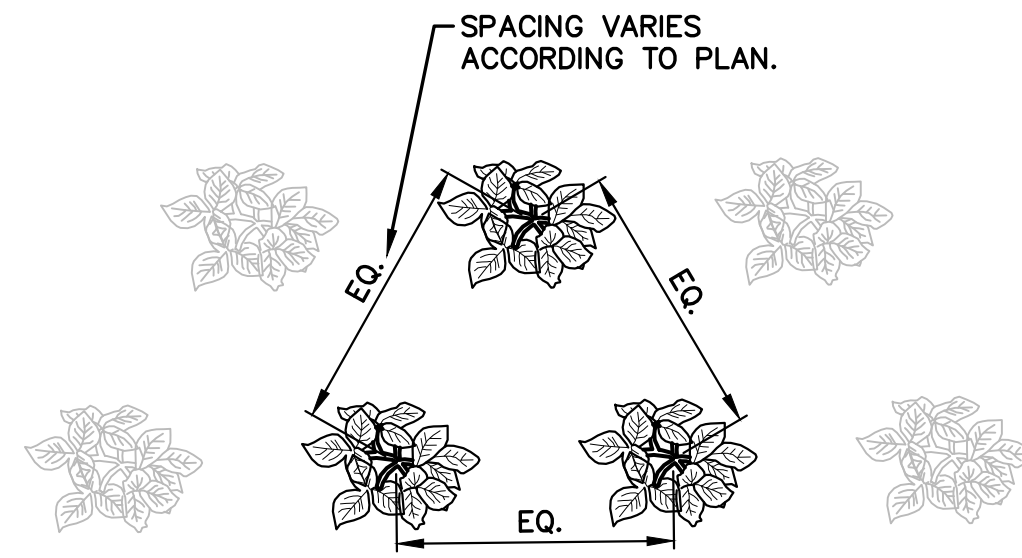
DRAWING LOCATION: H:\3-082D (Remanufactured)\3- Landscape Details - 2 Landscape Details.dwg LAST SAVED BY: LURLEY ON 8/15/2024

NOTE: CONTAINER GROWN PLANTS MUST BE GROWN FOR A MINIMUM OF ONE FULL YEAR IN SIZE CONTAINER SPECIFIED ON DRAWINGS.



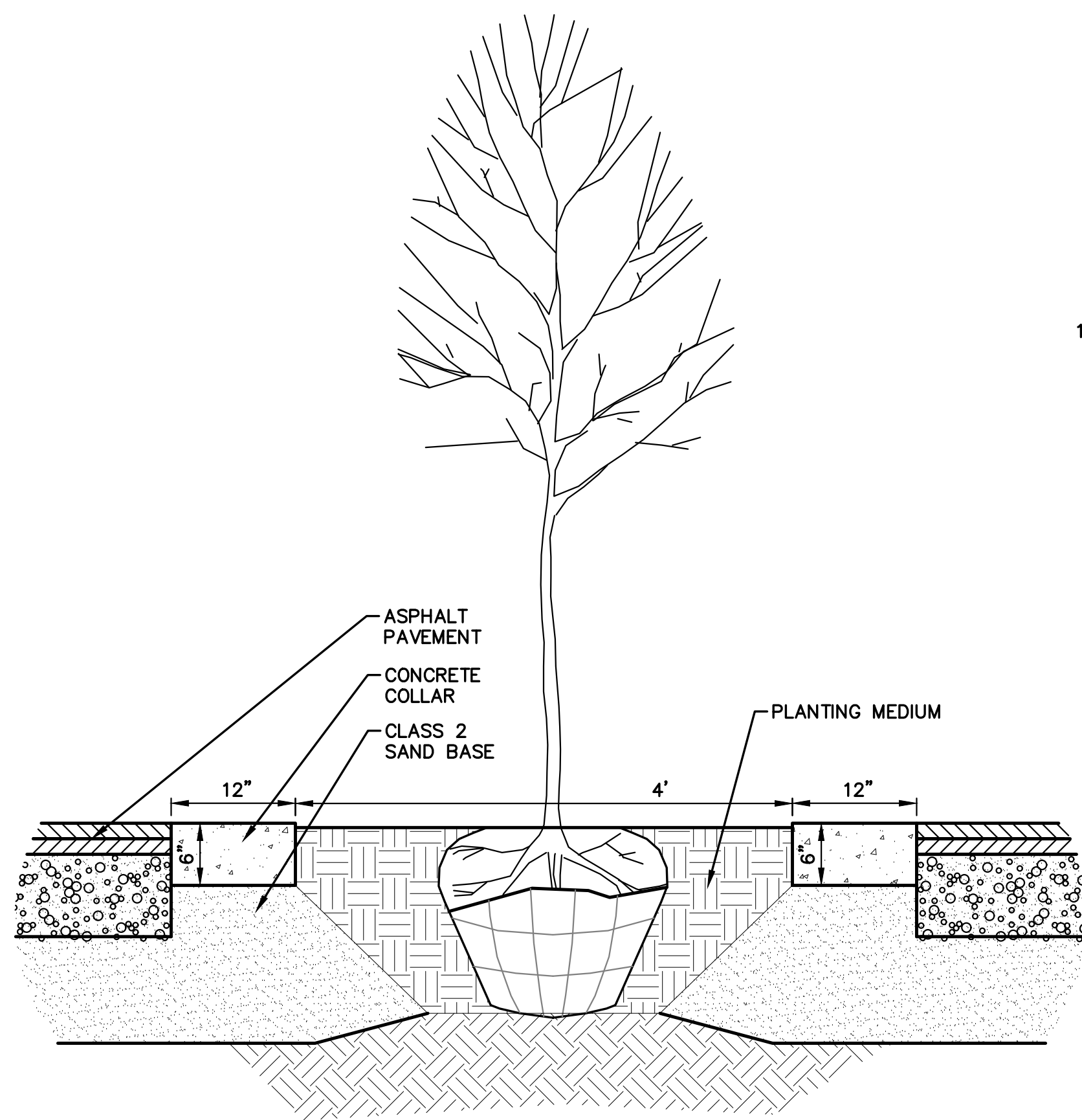
**PERENNIAL AND GROUNDCOVER PLANTING DETAIL**

NOT TO SCALE



**PERENNIAL AND GROUNDCOVER PLANT SPACING DETAIL**

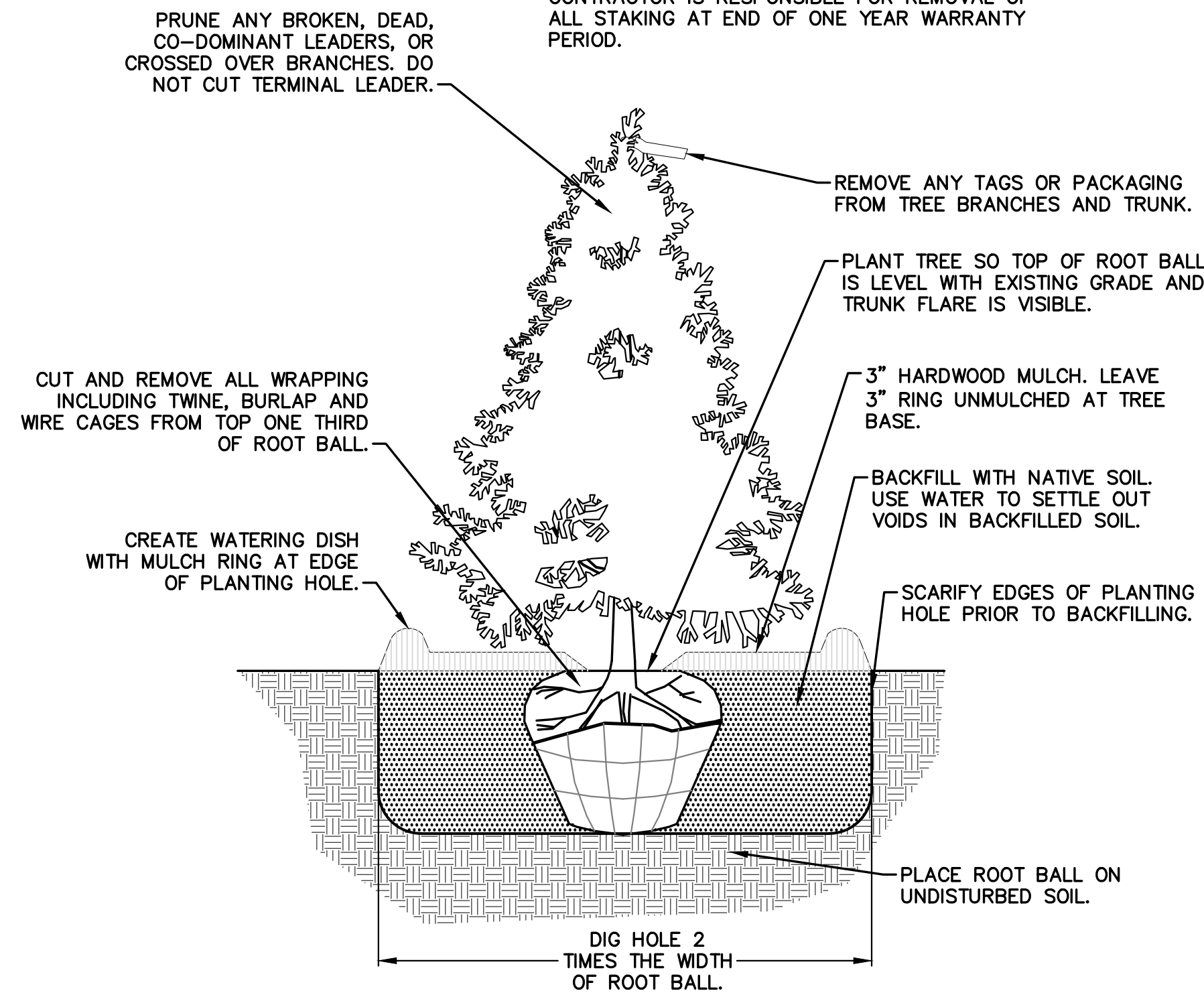
NOT TO SCALE



**CONCRETE COLLAR FOR LANDSCAPE DIAMOND**

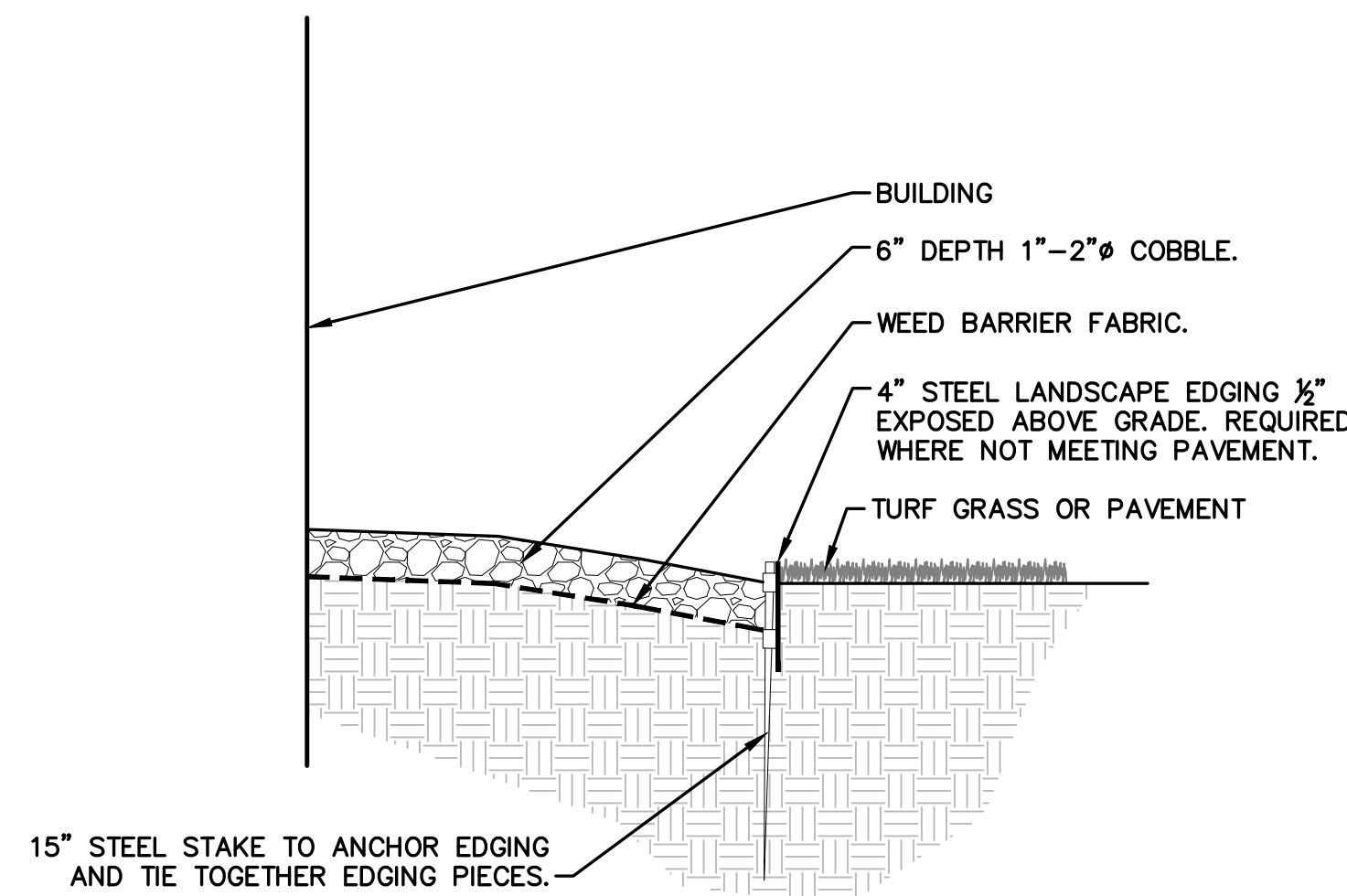
NOT TO SCALE

NOTE: STAKING OF BALL AND BURLAP TREES REQUIRED AT THE DISCRETION OF THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL STAKING AT END OF ONE YEAR WARRANTY PERIOD.



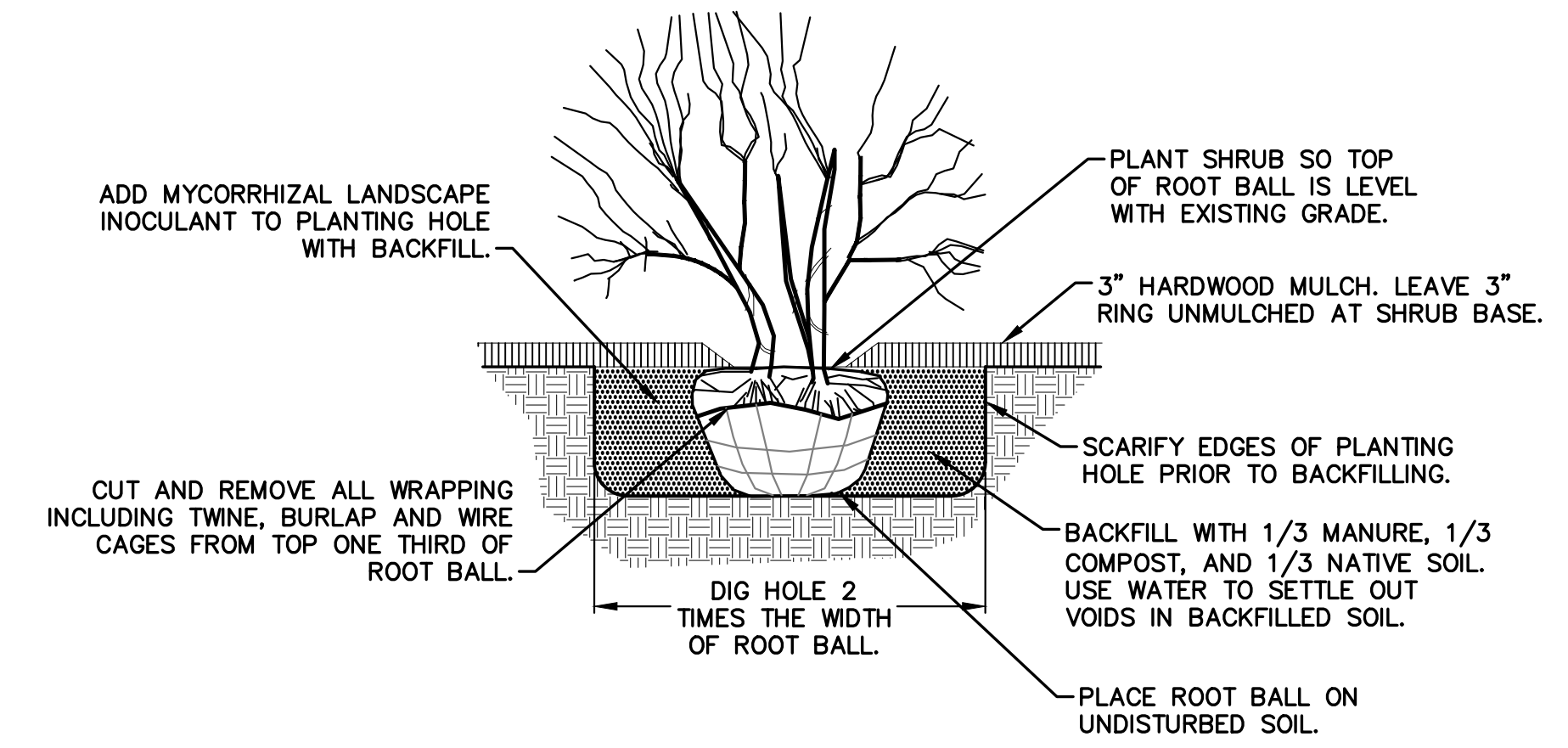
**CONIFEROUS TREE**

NOT TO SCALE



**BUILDING MAINTENANCE STRIP DETAIL**

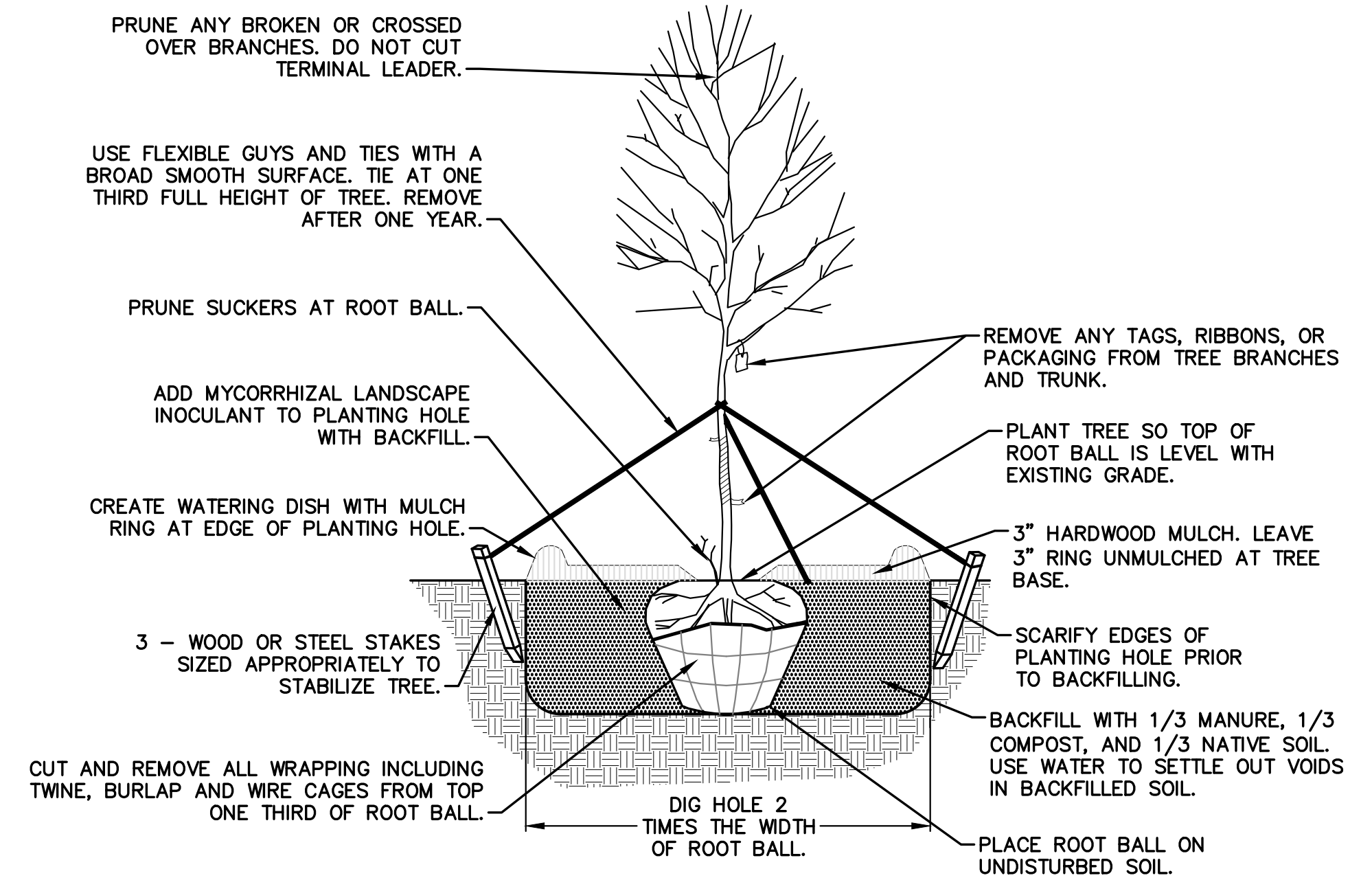
NOT TO SCALE



**TYPICAL SHRUB DETAIL**

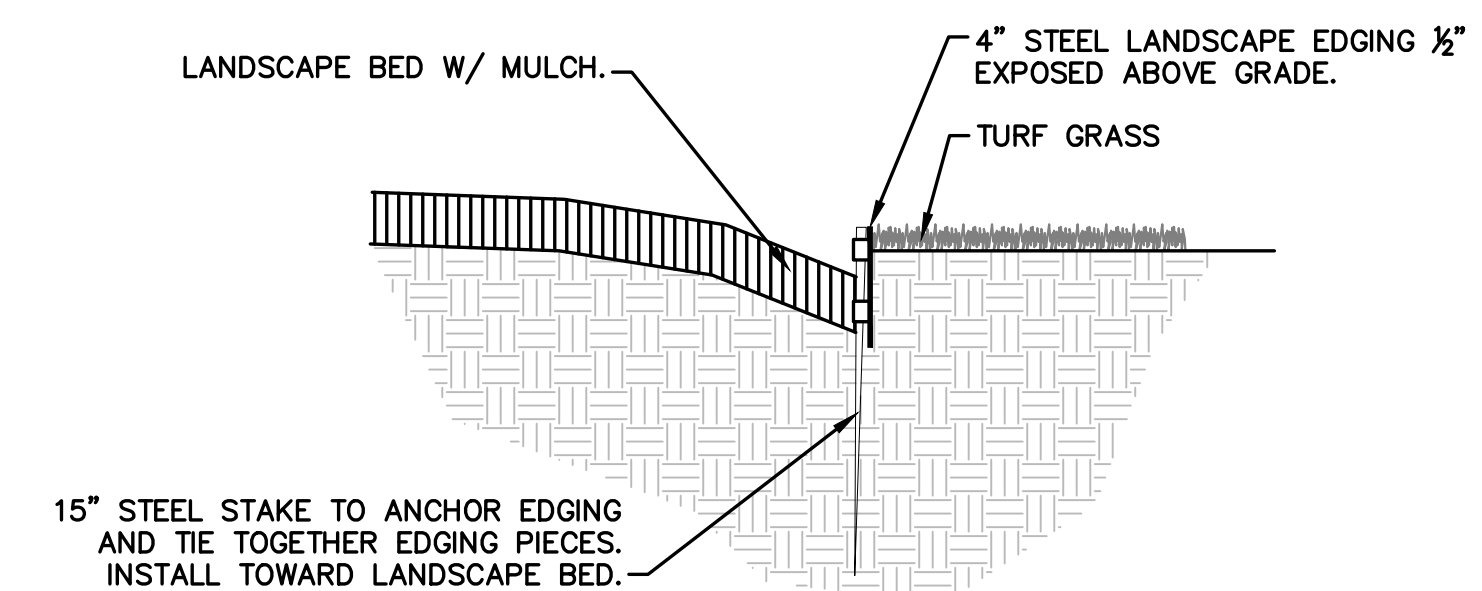
NOT TO SCALE

NOTE: STAKING OF BALL AND BURLAP TREES REQUIRED AT THE DISCRETION OF THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL STAKING AT END OF ONE YEAR WARRANTY PERIOD.



**DECIDUOUS TREE**

NOT TO SCALE



**STEEL LANDSCAPE EDGING DETAIL**

NOT TO SCALE

hurley & steward, llc  
2800 s. 11th street  
kalamazoo, michigan 49009  
269.552.4960 fax 269.552.4961  
www.hurleystewart.com



Job No. 23-082D - P.M.TDH - DRH-LAD - QA/QC 8/6/24	ISSUED FOR/REVISIONS:	3/1/24
2 SITE PLAN REVIEW		6/3/24
3 ELECTRIC SERVICE REVISIONS		7/17/24
4 PRE APP REVIEW		8/13/24
5 SITE PLAN REVIEW		

COPYRIGHT © of Hurley & Stewart, LLC

**LANDSCAPE DETAILS**  
**RESIDENCE INN AIRVIEW BLVD**  
**H&G**

Sheet Title:  
Project:  
Client:

8/13/24

Sheet  
**L-2**



# TOPOGRAPHIC SURVEY

## SURVEYOR'S NOTES

1. BASIS OF BEARINGS: MICHIGAN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83
2. CONTOUR INTERVAL = 1 FOOT
3. UTILITIES SHOWN ARE BASED ON FIELD LOCATION OF SURFACE EVIDENCE AND RECORDS PROVIDED BY OTHERS. UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. ADDITIONAL UTILITIES MAY BE ENCOUNTERED. PRIOR TO ANY EXCAVATION THE CONTRACTOR SHALL CALL MISS DIG AT 1-800-482-7171.
4. THERE IS NEW SIDEWALK AND PAVEMENT ALONG PORTAGE ROAD AND E KILGORE SERVICE ROAD AND ACCESS DRIVE TO THE NORTH.
5. THERE ARE NO KNOWN CHANGES PROPOSED TO THE STREET RIGHT OF WAY LINES.
6. BY SCALED MAP LOCATION AND GRAPHIC PLOTTING ONLY, THE LAND DEPICTED IN THIS SURVEY LIES IN ZONE X. MAP 6077C0310D, EFFECTIVE DATE 2/17/2010.
7. NO WETLANDS ON SITE PER THE NATIONAL WETLANDS INVENTORY. A DELINEATION OF THE WETLANDS BY A QUALIFIED CONSULTANT WAS NOT PERFORMED AT THE TIME OF SURVEY.
8. PARCEL CONTAINS 1.83± ACRES (79,513± SQ FT)
9. THERE ARE 109 PARKING SPACES AND 4 BARRIER FREE PARKING SPACES FOR A TOTAL OF 113 PARKING SPACES.
10. THERE WAS NO EVIDENCE OF RECENT EARTH MOVING WORK, BUILDING CONSTRUCTION, OR BUILDING ADDITIONS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.

## SCHEDULE "A" LEGAL DESCRIPTION

**TITLE CO: SUN TITLE AGENCY OF MICHIGAN, LLC**  
**UNDERWRITTEN BY: OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY**  
**COMMITMENT NO. 222858 EFFECTIVE DATE 6/15/2023 AT 8:00AM**

THE LAND REFERRED TO IN THIS COMMITMENT IS DESCRIBED AS FOLLOWS:  
 LAND SITUATED IN THE CITY OF KALAMAZOO, KALAMAZOO COUNTY, MICHIGAN:  
 PARCEL 1:

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 2, TOWN 3 SOUTH, RANGE 11 WEST; THENCE SOUTHERLY 980 FEET ALONG THE NORTH-SOUTH 1/4 LINE OF SAID SECTION 2 TO THE POINT OF BEGINNING; THENCE NORTH 89 DEGREES 24 MINUTES 10 SECONDS EAST 210 FEET AS MEASURED AT RIGHT ANGLES TO THE NORTH-SOUTH 1/4 LINE OF SAID SECTION 2; THENCE SOUTH 00 DEGREES 35 MINUTES 50 SECONDS EAST 150 FEET PARALLEL TO SAID NORTH-SOUTH 1/4 LINE; THENCE SOUTH 89 DEGREES 24 MINUTES 10 SECONDS WEST 210 FEET TO SAID NORTH-SOUTH 1/4 LINE AND MEASURED AT RIGHT ANGLES TO SAID NORTH-SOUTH 1/4 LINE; THENCE NORTH 00 DEGREES 35 MINUTES 50 SECONDS WEST 150 FEET ALONG SAID NORTH-SOUTH 1/4 LINE TO THE PLACE OF BEGINNING.

EXCEPTING THE WESTERLY 60 FEET THEREOF FOR PORTAGE ROAD.  
 ALSO EXCEPTING THE FOLLOWING DESCRIBED PARCEL: COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 2, TOWN 3 SOUTH, RANGE 11 WEST; THENCE SOUTH 00 DEGREES 33 MINUTES 54 SECONDS WEST 1130.00 FEET ALONG THE NORTH-SOUTH 1/4 LINE OF SAID SECTION 2 TO THE INTERSECTION OF THE NORTH RIGHT-OF-WAY LINE OF THE ORIGINAL FAIRFIELD AVENUE AS EXTENDED WEST; THENCE SOUTH 89 DEGREES 26 MINUTES 06 SECONDS EAST 60.0 FEET ALONG SAID LINE TO THE EAST RIGHT-OF-WAY LINE OF PORTAGE ROAD FOR THE PLACE OF BEGINNING OF THIS EXCLUSION; THENCE NORTH 00 DEGREES 33 MINUTES 54 SECONDS EAST 30.62 FEET ALONG THE EAST LINE OF PORTAGE ROAD; THENCE SOUTH 54 DEGREES 45 MINUTES 10 SECONDS EAST 8.53 FEET; THENCE SOUTH 00 DEGREES 33 MINUTES 54 SECONDS WEST 8.08 FEET; THENCE SOUTH 54 DEGREES 45 MINUTES 10 SECONDS EAST 10.17 FEET; THENCE SOUTH 89 DEGREES 26 MINUTES 06 SECONDS EAST 39.00 FEET; THENCE SOUTH 83 DEGREES 54 MINUTES 57 SECONDS EAST 36.77 FEET; THENCE SOUTH 89 DEGREES 26 MINUTES 06 SECONDS EAST 59.47 FEET; THENCE SOUTH 00 DEGREES 33 MINUTES 54 SECONDS WEST 4.50 FEET TO THE NORTH RIGHT-OF-WAY LINE OF THE ORIGINAL FAIRFIELD AVENUE; THENCE NORTH 89 DEGREES 26 MINUTES 06 SECONDS WEST 150 FEET ALONG SAID LINE TO THE PLACE OF BEGINNING.  
 39-10-02-215-005

PARCEL 2:  
 COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 2, TOWN 3 SOUTH, RANGE 11 WEST; THENCE SOUTH 00 DEGREES 35 MINUTES 50 SECONDS EAST 775 FEET ALONG THE NORTH-SOUTH 1/4 LINE OF SAID SECTION 2 TO THE POINT OF BEGINNING; THENCE NORTH 89 DEGREES 51 MINUTES 10 SECONDS EAST 295.62 FEET; THENCE SOUTH 00 DEGREES 35 MINUTES 50 SECONDS EAST 352.88 FEET PARALLEL TO SAID NORTH-SOUTH 1/4 LINE; THENCE SOUTH 89 DEGREES 24 MINUTES 10 SECONDS WEST 85.61 FEET; THENCE NORTH 00 DEGREES 35 MINUTES 50 SECONDS WEST 150 FEET; THENCE SOUTH 89 DEGREES 26 MINUTES 06 SECONDS EAST 210.0 FEET ALONG SAID LINE TO THE EAST RIGHT-OF-WAY LINE OF PORTAGE ROAD FOR THE POINT OF BEGINNING OF THIS EXCLUSION; THENCE NORTH 00 DEGREES 33 MINUTES 54 SECONDS EAST 8.00 FEET; THENCE SOUTH 89 DEGREES 26 MINUTES 06 SECONDS EAST 85.61 FEET; THENCE SOUTH 00 DEGREES 33 MINUTES 54 SECONDS WEST 60 FEET TO THE NORTH RIGHT-OF-WAY LINE OF THE ORIGINAL FAIRFIELD AVENUE; THENCE NORTH 89 DEGREES 26 MINUTES 06 SECONDS WEST 85.61 FEET ALONG SAID LINE TO THE PLACE OF BEGINNING.  
 39-10-02-215-006

ALSO EXCEPTING THE FOLLOWING DESCRIBED PARCEL: COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 2, TOWN 3 SOUTH, RANGE 11 WEST; THENCE SOUTH 00 DEGREES 33 MINUTES 54 SECONDS WEST 1130.00 FEET ALONG THE NORTH-SOUTH 1/4 LINE OF SAID SECTION 2 TO THE INTERSECTION OF THE NORTH RIGHT-OF-WAY LINE OF THE ORIGINAL FAIRFIELD AVENUE AS EXTENDED WEST; THENCE SOUTH 89 DEGREES 26 MINUTES 06 SECONDS EAST 210.0 FEET ALONG SAID LINE TO THE EAST RIGHT-OF-WAY LINE OF PORTAGE ROAD FOR THE POINT OF BEGINNING OF THIS EXCLUSION; THENCE NORTH 00 DEGREES 33 MINUTES 54 SECONDS EAST 8.00 FEET; THENCE SOUTH 89 DEGREES 26 MINUTES 06 SECONDS EAST 85.61 FEET; THENCE SOUTH 00 DEGREES 33 MINUTES 54 SECONDS WEST 60 FEET TO THE NORTH RIGHT-OF-WAY LINE OF THE ORIGINAL FAIRFIELD AVENUE; THENCE NORTH 89 DEGREES 26 MINUTES 06 SECONDS WEST 85.61 FEET ALONG SAID LINE TO THE PLACE OF BEGINNING.  
 39-10-02-215-006

## LEGEND

BM#XXX	BENCH MARK	RISE	RISE
□	SET MONUMENT	⊗	PIPE MARKER COMMUNICATIONS
○	FOUND MONUMENT	⊗	PIPE MARKER FIBEROPTICS
●	SET CAPPED IRON LIC. # 57885	⊗	PIPE MARKER ELECTRIC
○	FOUND IRON	⊗	PIPE MARKER GAS
○	SET CHISELED "X"	⊗	SIGN
○	FOUND CHISELED "X"	⊗	MAILBOX
▲CP #	CONTROL POINT	⊗	PARKING METER (SINGLE/DOUBLE)
P=	PLATTED	⊗	POST
D=	DESCRIBED	⊗	SOIL BORING
M=	MEASURED	⊗	FLAG
R=	RECORD	⊗	BOLLARD
C=	CALCULATED	⊗	CONTOUR HIGHLIGHTED
▭	CURB CATCH BASIN	⊗	CONTOUR NORMAL
▭	SQUARE CATCH BASIN	⊗	POWER LINE
▭	ROUND CATCH BASIN	⊗	OVERHEAD UTILITY
⊙	STORM MANHOLE	⊗	COMMUNICATION
⊙	DOWN SPOUT	⊗	ELECTRIC
⊙	YARD DRAIN	⊗	FIBEROPTIC
⊙	FLARED END SECTION	⊗	GAS
⊙	SANITARY MANHOLE	⊗	SANITARY SEWER
⊙	SANITARY CLEANOUT	⊗	STORMWATER
⊙	FIRE HYDRANT	⊗	TELEPHONE
⊙	FIRE DEPARTMENT CONNECTION	⊗	WATER
⊙	WATER VALVE	⊗	WETLAND MARKER
⊙	WATER METER	⊗	UNKNOWN
⊙	WELL HEAD	⊗	TREE LINE
⊙	SPRINKLER CONTROL VALVE	⊗	FENCE
⊙	SPRINKLER HEAD	⊗	GUARD RAIL
⊙	MONITOR WELL	⊗	DECIDUOUS TREE
⊙	POST INDICATOR VALVE	⊗	CONIFEROUS TREE
⊙	SPIGOT	⊗	PAVEMENT
⊙	TRANSFORMER	⊗	CONCRETE SURFACE
⊙	YARD LIGHT	⊗	DETECTABLE WARNING
⊙	HAND HOLE (ELECTRIC)	⊗	GRAVEL
⊙	LIGHT POLE	⊗	LANDSCAPING
⊙	(UTILITY, GUY, POWER) POLE	⊗	PAVERS
⊙	GUY WIRE	⊗	
⊙	ELECTRIC METER	⊗	
⊙	ELECTRIC MANHOLE	⊗	
⊙	AIR CONDITIONER	⊗	
⊙	GAS METER	⊗	
⊙	GAS VALVE	⊗	
⊙	TELEPHONE MANHOLE	⊗	
⊙	COMMUNICATION MANHOLE	⊗	

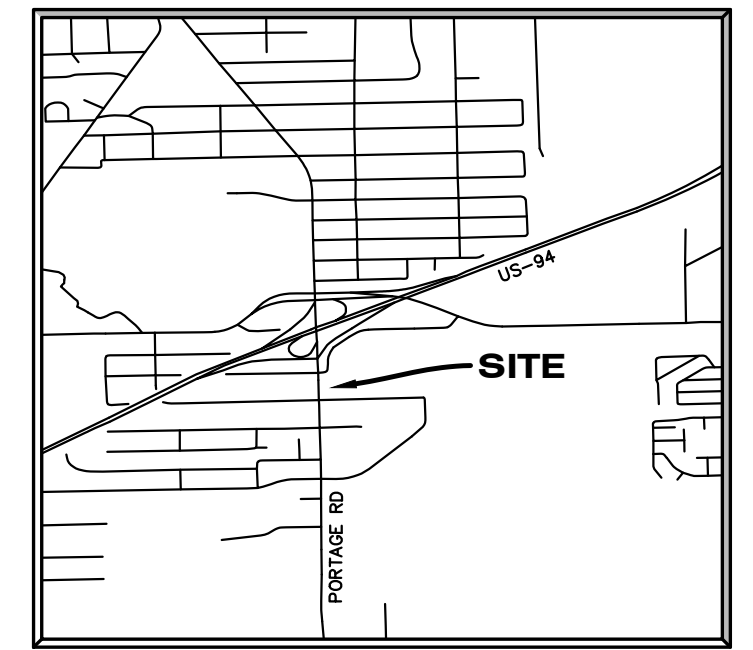
## SCHEDULE B SECTION II EXCEPTIONS

**TITLE CO: SUN TITLE AGENCY OF MICHIGAN, LLC**  
**UNDERWRITTEN BY: OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY**  
**COMMITMENT NO. 222858 EFFECTIVE DATE 6/15/2023 AT 8:00AM**

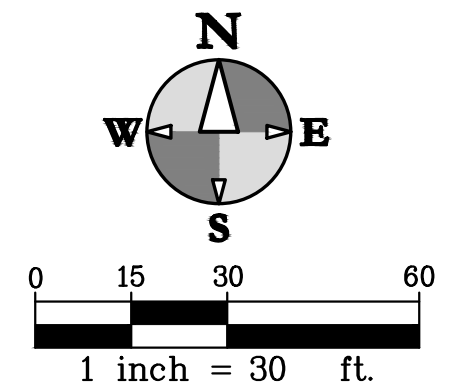
- [12] TERMS, COVENANTS, AND CONDITIONS OF WARRANTY DEED, AS RECORDED IN LIBER 788 ON PAGE 1793 (60' ROW FOR PORTAGE RD SHOWN, AIR RESTRICTIONS NOT PLOTTABLE, EASEMENT/ROW INGRESS EGRESS TO THE "EAST-WEST AIRPORT TERMINAL ROAD LYING IMMEDIATELY SOUTH THEREOF" (PRESUMABLY BYRD DRIVE, NOT SHOWN, NOT PLOTTABLE)).
- [13] TERMS, COVENANTS, AND CONDITIONS OF WARRANTY DEED, AS RECORDED IN LIBER 790 ON PAGE 548 (AIR RESTRICTIONS NOT PLOTTABLE, HIGHWAY EASEMENT ADJACENT TO SURVEYED PROPERTY SHOWN).
- [14] BUILDING AND USE RESTRICTIONS AND THE TERMS, COVENANTS, CONDITIONS AND PROVISIONS THEREIN, AS CONTAINED IN INSTRUMENT RECORDED IN LIBER 799 ON PAGE 905, WITH RELEASE, MODIFICATION AND REIMPOSITION OF RESTRICTIONS AS RECORDED IN LIBER 926 ON PAGE 224, BUT OMITTING ANY COVENANT OR RESTRICTION BASED ON RACE, COLOR, RELIGION, SEX, HANDICAP, FAMILIAL STATUS OR NATIONAL ORIGIN (NOT PLOTTABLE, NOT SURVEY MATTERS).
- [15] EASEMENT IN FAVOR OF CONSUMERS POWER COMPANY (NOW KNOWN AS CONSUMERS ENERGY), AS RECORDED IN INSTRUMENT NO. 2021-004694 (SHOWN).

## MISS DIG DESIGN TICKET DATA

- AT&T TELEPHONE - 616-881-2268 - NO RESPONSE - 08/15/23  
 CHARTER COMMUNICATIONS CABLE TV - 800-778-9140 - NO RESPONSE - 08/15/23  
 CHARTER COMMUNICATIONS FIBER OPTICS - 800-778-9140 - NO RESPONSE - 08/15/23  
 CLIMAX TELEPHONE DBA METRO FIBERNET - 800-778-9140 - NO RESPONSE - 08/15/23  
 COMCAST CABLE TV - 855-962-8525 - NO RESPONSE - 08/15/23  
 CONSUMERS ENERGY - 800-778-9140 - NO RESPONSE - 08/15/23  
 CONSUMERS ENERGY ELECTRIC - 800-778-9140 - NO RESPONSE - 08/15/23  
 CONSUMERS ENERGY GAS - CONSUMERS ENERGY SIMS WEBSITE - MAPS PROVIDED - 08/15/23  
 KALAMAZOO CITY DPS POTABLE WATER - WILL EICHELBERGER 269-337-8727 - MAPS PROVIDED - 08/14/23  
 KALAMAZOO CITY DPS SANITARY SEWER - WILL EICHELBERGER 269-337-8727 - MAPS PROVIDED - 08/14/23  
 KALAMAZOO CITY DPS STORM SEWER - WILL EICHELBERGER 269-337-8727 - MAPS PROVIDED - 08/14/23  
 KALAMAZOO CITY DPS TRAFFIC - WILL EICHELBERGER 269-337-8727 - MAPS PROVIDED - 08/14/23  
 LEVEL 3 NOW LUMEN FIBER OPTICS - 877-366-8344 - NO RESPONSE - 08/15/23  
 PORTAGE CITY FIBER OPTICS - PORTAGE GIS - MAPS PROVIDED - 08/15/23  
 PORTAGE CITY SANITARY SEWER - PORTAGE GIS - MAPS PROVIDED - 08/15/23  
 PORTAGE CITY STORM SEWER - PORTAGE GIS - MAPS PROVIDED - 08/15/23  
 PORTAGE CITY TRAFFIC - PORTAGE GIS - MAPS PROVIDED - 08/15/23



SITE LOCATION MAP  
NOT TO SCALE



## SURVEY CONTROL

CP 10 N = 11089.38 E = 10086.47 EL = 876.57'  
 CP 11 N = 11392.33 E = 10155.19 EL = 872.25'

## BENCHMARKS

ELEVATIONS OF THIS SURVEY ARE BASED ON NAVD 88 AS DERIVED FROM GPS

- BM 1 EL = 873.42'  
 SPIKE IN EAST FACE OF UTILITY POLE AT THE SOUTHEAST CORNER OF PORTAGE ROAD AND E KILGORE SERVICE ROAD.
- BM 2 EL = 872.36'  
 SPIKE IN SOUTH FACE OF UTILITY POLE ON THE EAST SIDE OF THE NORTH ACCESS DRIVE.
- BM 3 EL = 876.79'  
 CHISELED X IN NORTHEAST BOLT ON HYDRANT AT THE NORTHEAST CORNER OF PORTAGE ROAD AND AIRVIEW BLVD.

## EXISTING STRUCTURE DATA

- |   |   |
|---|---|
| ① STM CB<br>RIM = 871.10'<br>SILT SACK FULL OF SILT   | ⑥ 4.0' CONCRETE STM CB<br>RIM = 873.47'<br>INV. 12" S CONCRETE = 867.72'<br>WATER = 867.72'<br>SEDIMENT = 866.87'   |
| ② STM CB<br>RIM = 871.78'<br>SILT SACK FULL OF SILT   | ⑦ 4.0' CONCRETE STM CB<br>RIM = 871.89'<br>INV. 12" S CONCRETE = 866.44'<br>WATER = 866.69'<br>WATER = 866.34'<br>SUMP = 864.99'  |
| ③ 2.0' CONCRETE STM CB<br>RIM = 869.91'<br>INV. 15" N PVC = 867.56'<br>WATER = 867.56'<br>SEDIMENT = 865.16'  | ⑧ 4.0' CONCRETE STM MH<br>RIM = 873.68'<br>INV. 12" N CONCRETE = 867.48'<br>INV. 12" S CONCRETE = 868.33'<br>INV. 8" NW CLAY = 869.13'<br>SEDIMENT = 869.03'  |
| ④ ELECTRIC MH<br>RIM = 872.72'  | ⑨ 2.0' CONCRETE STM CB<br>RIM = 870.21'<br>INV. 8" SE CPP = 867.86'<br>WATER = 867.71'<br>SUMP = 867.36'  |
| ⑤ 3.0' CONCRETE STM CB<br>RIM = 871.18'<br>INV. 12" N CONCRETE = 869.13'<br>INV. 12" S CONCRETE = 867.38'<br>SEDIMENT = 869.03'                       | ⑩ 4.0' CONCRETE/BLOCK STM MH<br>RIM = 871.95'<br>INV. 12" N CONCRETE = 866.39'<br>INV. 12" S CONCRETE = 866.09±<br>INV. 12" W CONCRETE = 866.09±<br>INV. 15" E CONCRETE = 865.80'<br>SUMP = 865.80' |
| ⑥ 2.0' CONCRETE STM CB<br>RIM = 870.21'<br>INV. 8" SE CPP = 867.86'<br>WATER = 867.71'<br>SUMP = 867.36'  | ⑪ 4.0' CONCRETE SAN MH<br>RIM = 875.01'<br>INV. 6" NW CLAY = 864.36'<br>INV. 6" N CLAY = 862.11±<br>INV. 6" S CLAY = 862.01'<br>N&S PIPES ARE PLUGGED   |
| ⑦ ELECTRIC MH<br>RIM = 874.90'  | ⑫ 4.0' CONCRETE SAN MH<br>RIM = 874.66'<br>INV. 6" N CLAY = 861.16'<br>INV. 6" S CLAY = 861.11'<br>N&S PIPES ARE PLUGGED  |
| ⑧ 6.0' CONCRETE SAN MH<br>RIM = 875.01'<br>INV. 6" NW CLAY = 864.36'<br>INV. 6" N CLAY = 862.11±<br>INV. 6" S CLAY = 862.01'<br>N&S PIPES ARE PLUGGED |   |



ALL UTILITIES AS SHOWN ARE APPROXIMATE LOCATIONS DERIVED FROM ACTUAL MEASUREMENTS AND AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATION NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THE AREA.

FIELD WORK PERFORMED BY:  
**HURLEY & STEWART, LLC**

**TOPOGRAPHIC SURVEY**  
**RESIDENCE INN AIRVIEW BLVD**  
**H&G**

Sheet Title:  
 Project:  
 Client:

8/13/24

Sheet

**S-1**

**hurley & stewart, llc**  
 2800 s. 11th street  
 kalamazoo, michigan 49009  
 269.652.4960 fax 269.552.4961  
 www.hurleystewart.com

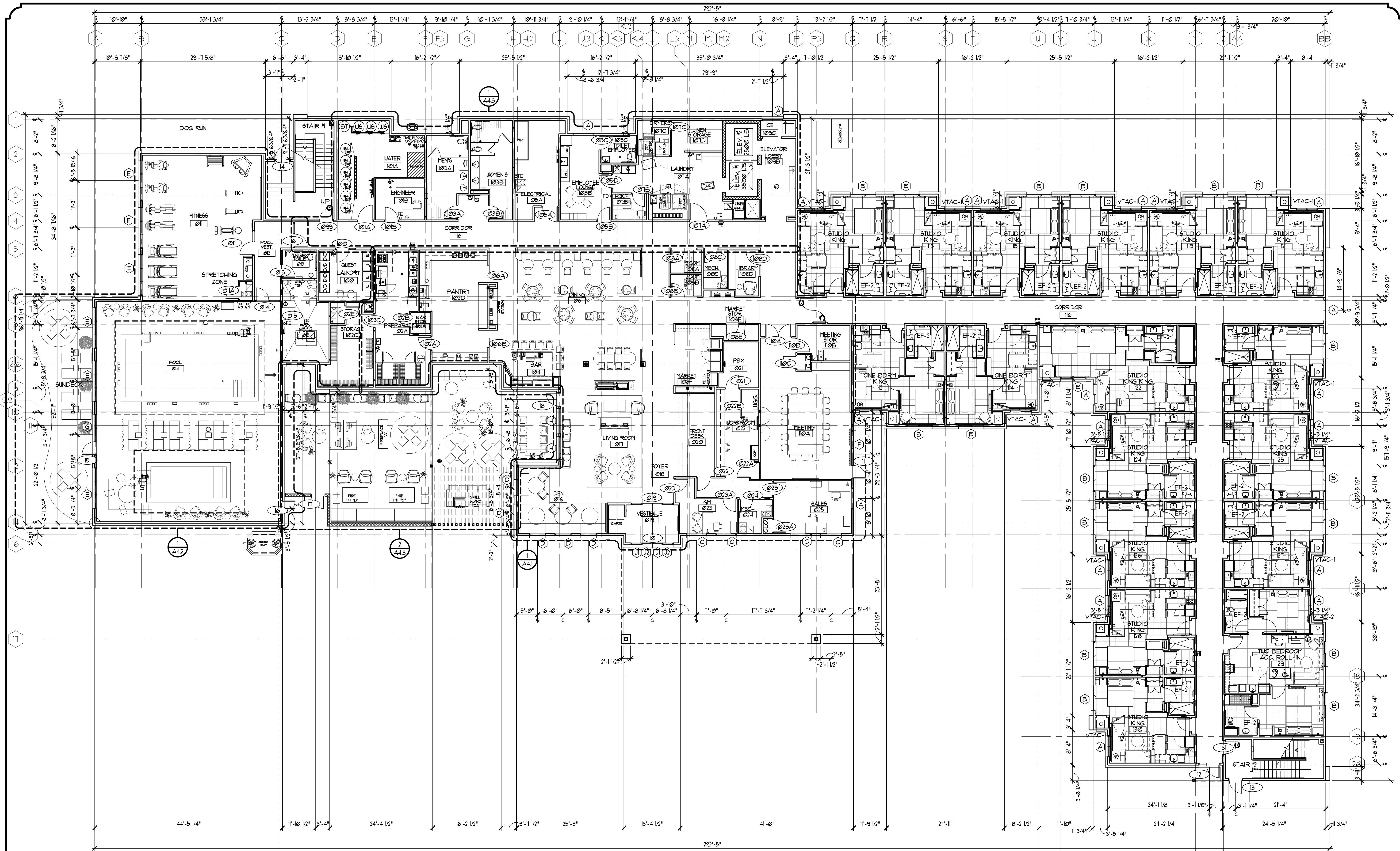
Job No. 23-082D - P.M.TDH - DRH-LAD - OA - QC - 8/6/24	ISSUED FOR/REVISIONS:
2. SITE PLAN REVIEW	3/1/24
3. ELECTRIC SERVICE REVISIONS	6/3/24
4. PRE APP REVIEW	7/17/24
5. SITE PLAN REVIEW	8/13/24

COPYRIGHT © of Hurley & Stewart, LLC









**FIRST FLOOR PLAN**  
 NORTH SCALE: 3/32" = 1'-0"

ROOM TYPE	1ST	2ND	3RD	4TH	TOTAL	% OF BRAND	SHEET NO.
STUDIO KING	13	17	17	17	64	66.3%	A3.1
STUDIO KING ACCESSIBLE	0	1	0	0	1		A3.2
STUDIO KING KING	1	1	1	1	4		A3.3
STUDIO KING KING ACCESSIBLE	0	0	1	0	1	5.1%	A3.4
ONE BEDROOM KING	2	3	3	3	11		A3.5
ONE BEDROOM KING ACCESSIBLE	0	1	0	0	1	12.2%	A3.6
ONE BEDROOM KING KING	0	3	4	4	11		A3.7
ONE BEDROOM KING KING ACCESSIBLE	0	0	0	1	1	12.2%	A3.8
TWO BEDROOM	0	1	1	1	3		A3.9
TWO BEDROOM ACCESSIBLE ROLL-IN	1	0	0	0	1	4.1%	A3.10
<b>TOTAL ROOMS</b>	<b>17</b>	<b>21</b>	<b>21</b>	<b>21</b>	<b>98</b>		
<b>AREA (SQ FT)</b>	<b>24,353</b>	<b>18,219</b>	<b>18,219</b>	<b>18,219</b>	<b>79,190</b>		

# ARCHITECTURAL GROUP III

201 S. Nappanee St. Elkhart Indiana 46514-1953 574/293-0008  
 architecturalgroup3.com  
 The Architect is deemed the author, creator and owner of the documents, whether in paper or electronic form, and retains all common law, statutory and other reserved rights, including copyright.

**JOB TITLE**  
 RESIDENCE INN  
 BY MARRIOTT  
 A NEW 98 ROOM HOTEL  
 PORTAGE, MI

**JOB NO.**  
 24109

**DATE**  
 05/29/24

**REVISIONS**

**PRELIMINARY NOT FOR CONSTRUCTION**

**SHEET NO.**  
**A1.1**  
 FIRST FLOOR  
 PLAN





1 WEST ELEVATION  
SCALE: 3/32" = 1'-0"



2 SOUTH ELEVATION  
SCALE: 3/32" = 1'-0"

MATERIAL KEY:	
	BRICK VENEER COLOR: [unspecified]
	EIFS COLOR: <b>PKK (201004)</b>
	EIFS COLOR: <b>CHATELAIN BRICK (201004)</b>
	WOOD COLOR: <b>JAM (201004)</b>
	CONCRETE

NOTE: ALL COPINGS AND GRAVEL STOPS TO MATCH ADJACENT WALL/TRIM COLOR

# ARCHITECTURAL GROUP III

201 S. Nappanee St. Elkhart Indiana 46514-1953 574/293-0008  
architecturalgroup3.com  
The Architect is deemed the author, creator, and owner of the documents, whether in paper or electronic form, and retains all common law, statutory and other reserved rights, including copyright.

JOB TITLE  
  
RESIDENCE INN  
BY MARRIOTT  
  
A NEW 98 ROOM HOTEL  
PORTAGE, MI






JOB NO.  
24109  
  
DATE  
05/29/24  
  
REVISIONS

**PRELIMINARY NOT FOR CONSTRUCTION**

SHEET NO.  
**A2.1**  
MASSING ELEVATIONS



MATERIAL KEY:

-  BRICK VENEER  
COLOR: [Blank]
-  EFIS  
COLOR: **PINK (00000)**
-  EFIS  
COLOR: **CHARCOAL BROWN (00000)**
-  WOOD  
COLOR: **JAVA (00000)**
-  CONCRETE

NOTE: ALL COPINGS AND GRAVEL STOPS TO MATCH ADJACENT WALL/TRIM COLOR



1 NORTH ELEVATION  
SCALE: 3/32" = 1'-0"



2 EAST ELEVATION  
SCALE: 3/32" = 1'-0"

ARCHITECTURAL GROUP III

201 S. Nappanee St. Elkhart Indiana 46514-1953 574/293-0008  
architecturalgroup3.com  
The Architect is deemed the author, creator, and owner of the documents, whether in paper or electronic form, and retains all common law, statutory and other reserved rights, including copyright.

JOB TITLE

RESIDENCE INN BY MARRIOTT  
A NEW 98 ROOM HOTEL PORTAGE, MI

JOB NO.  
24109

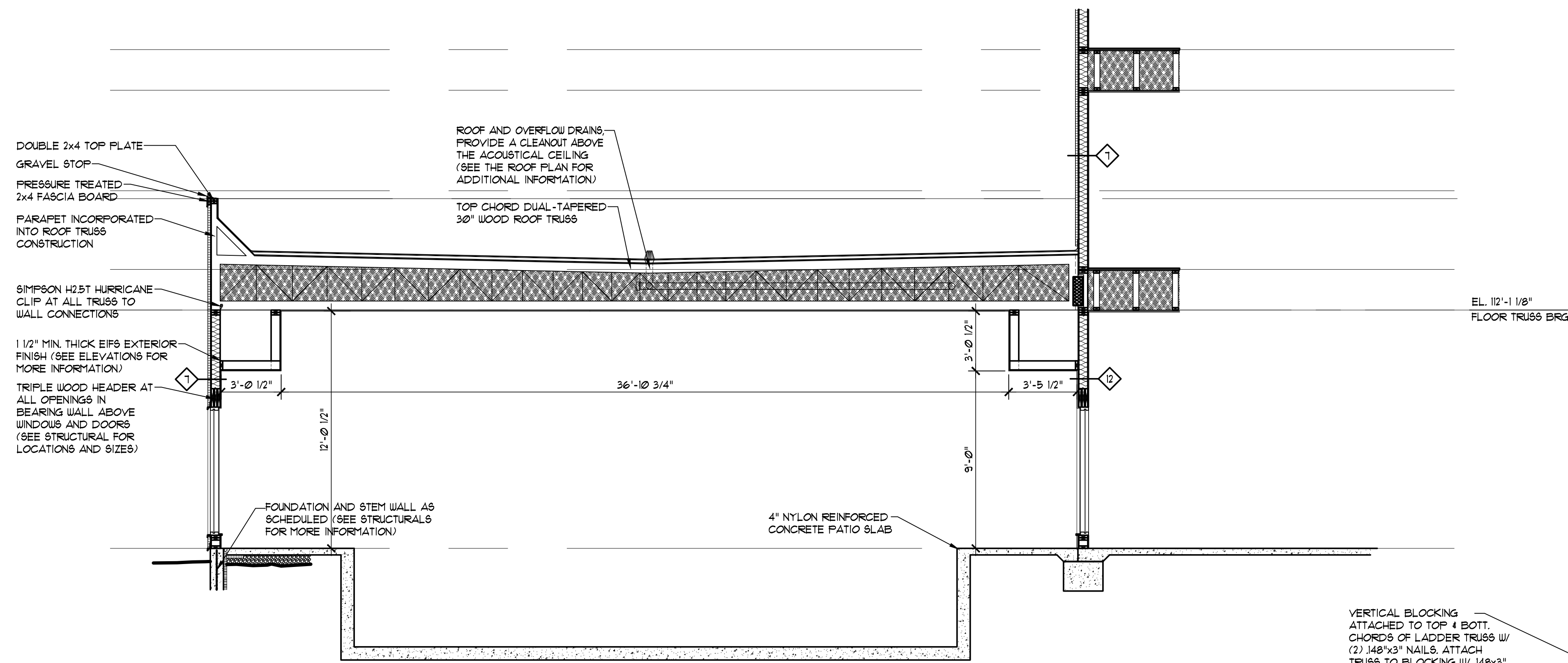
DATE  
05/29/24

REVISIONS

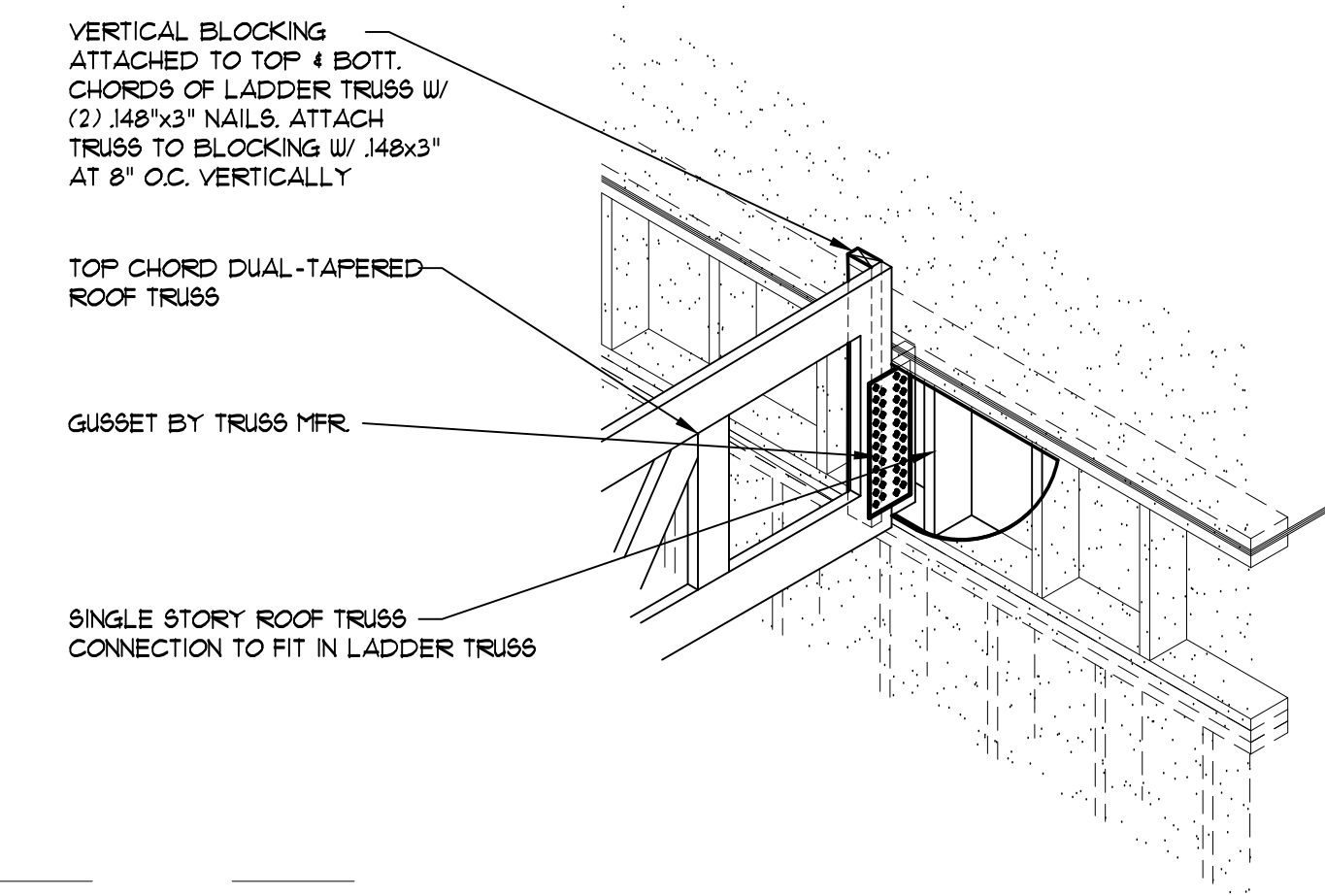
**PRELIMINARY NOT FOR CONSTRUCTION**

SHEET NO.  
**A2.2**  
MASSING ELEVATIONS

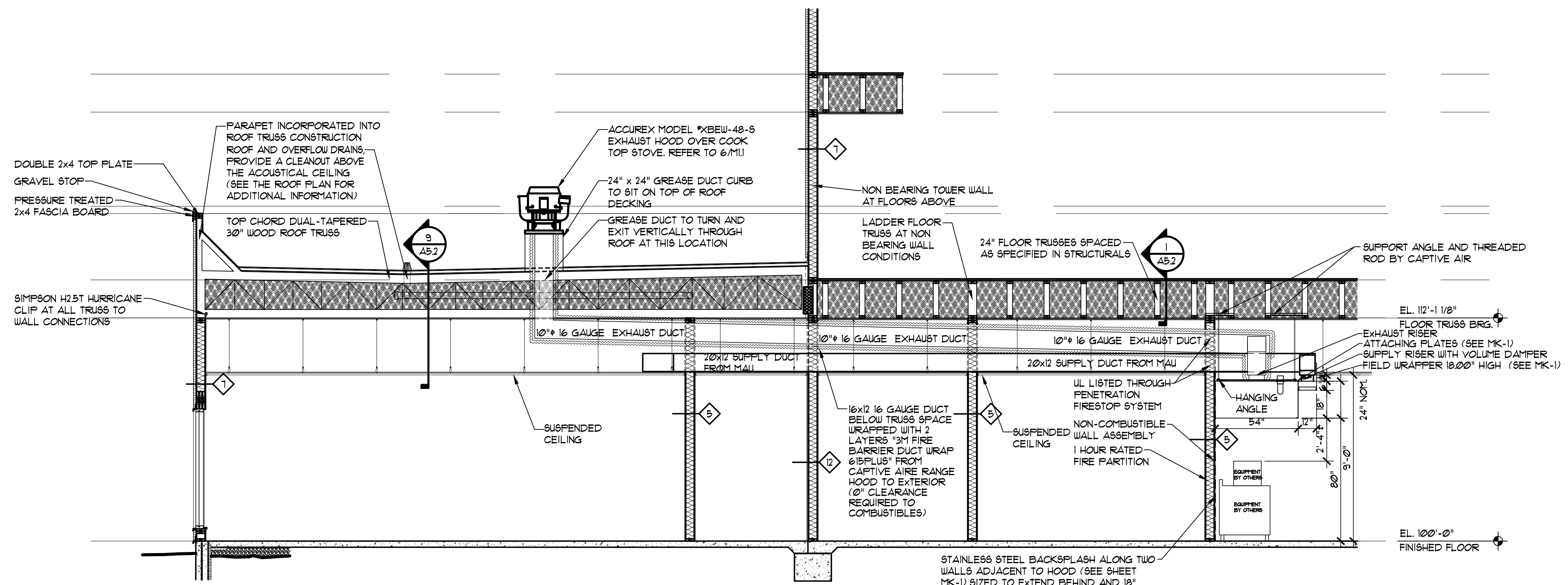




1 SINGLE STORY POOL SECTION  
SCALE: 1/4" = 1'-0"



3 SINGLE STORY CONNECTION DETAIL  
SCALE: N.T.S.

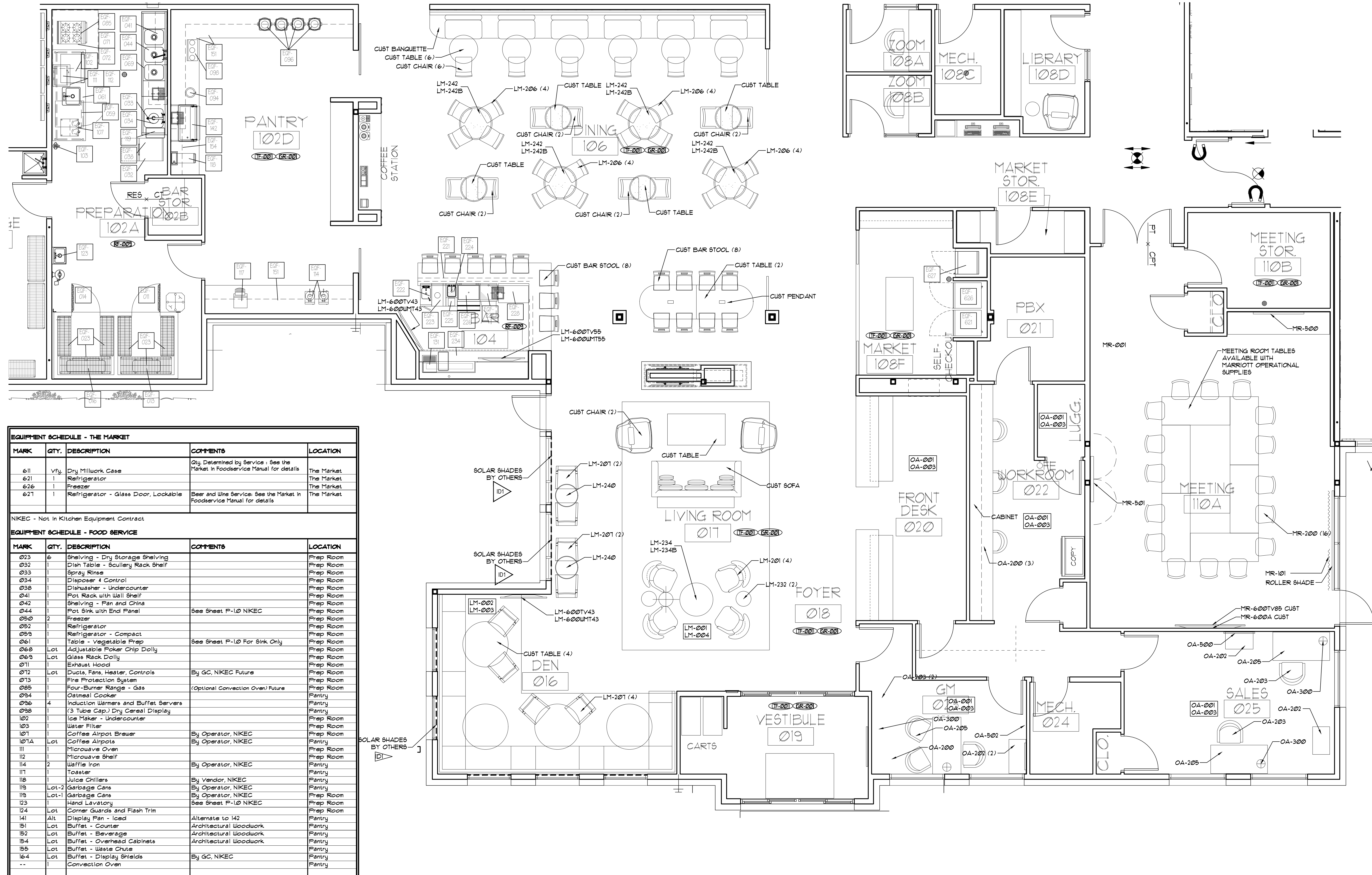


2 GREASE DUCT THROUGH SINGLE STORY SECTION  
SCALE: 1/4" = 1'-0"

**PRELIMINARY NOT FOR CONSTRUCTION**

S:\ACAD DRAWINGS\HOTELS\Residence Inn\Portage, MI 24109\24109A5-10.dwg, 05/29/24 4:01:32 PM, AutoCAD PDF (General Documentation) p2





EQUIPMENT SCHEDULE - THE MARKET			
MARK	QTY.	DESCRIPTION	COMMENTS
611	1	Dry Millwork Case	Qty. Determined by Service - See the Market in Foodservice Manual for details
621	1	Refrigerator	The Market
626	1	Freezer	The Market
627	1	Refrigerator - Glass Door, Lockable	Beer and Wine Service. See the Market in Foodservice Manual for details

NIKEC - Not in Kitchen Equipment Contract

EQUIPMENT SCHEDULE - FOOD SERVICE			
MARK	QTY.	DESCRIPTION	COMMENTS
023	6	Shelving - Dry Storage Shelving	
032	1	Dish Table - Scullery Rack Shelf	
033	1	Spray Rinse	
034	1	Dispenser - Undercounter	
039	1	Diswasher - Undercounter	
041	1	Pot Rack with Wall Shelf	
042	1	Shelving - Fan and China	
044	1	Pot Sink with End Panel	See Sheet P-10 NIKEC
050	2	Freezer	
052	1	Refrigerator	
059	1	Refrigerator - Compact	
061	1	Table - Vegetable Prep	See Sheet P-10 For Sink Only
068	Lot	Adjustable Poker Chip Dolly	
069	Lot	Glass Rack Dolly	
071	1	Exhaust Hood	
072	Lot	Ducts, Fans, Heater, Controls	By GC, NIKEC Future
073	1	Fire Protection System	
085	1	Four-Burner Range - Gas	(Optional Convection Oven) Future
094	1	Oatmeal Cooker	
096	4	Induction Warmers and Buffet Servers	
098	1	(3 Tube Cap) Dry Cereal Display	
102	1	Ice Maker - Undercounter	
103	1	Water Filter	
104	1	Coffee Airpot Brewer	By Operator, NIKEC
107A	Lot	Coffee Airpote	By Operator, NIKEC
111	1	Microwave Oven	
112	1	Microwave Shelf	
114	2	Waffle Iron	
117	1	Toaster	By Operator, NIKEC
118	1	Juice Chillers	By Vendor, NIKEC
119	Lot-2	Garbage Cans	By Operator, NIKEC
119	Lot-1	Garbage Cans	By Operator, NIKEC
123	1	Hand Lavatory	See Sheet P-10 NIKEC
124	Lot	Corner Guards and Flash Trim	
141	Lot	Air Display Fan - Lead	Alternate to 142
151	Lot	Buffet - Counter	Architectural Woodwork
152	Lot	Buffet - Beverage	Architectural Woodwork
154	Lot	Buffet - Overhead Cabinets	Architectural Woodwork
155	Lot	Buffet - Waste Chute	
164	Lot	Buffet - Display Shields	By GC, NIKEC
--	1	Convection Oven	

NIKEC - Not in Kitchen Equipment Contract

MARK	QTY.	DESCRIPTION	COMMENTS	LOCATION
551	4	Ice Machine		1st - 4th FLR

1 CORE ENLARGEMENT  
SCALE: 1/4" = 1'-0"

# ARCHITECTURAL GROUP III

201 S. Nappanee St. Elkhart Indiana 46514-1953 574/293-0008  
architecturalgroup3.com

The Architect is deemed the author, creator, and owner of the documents, whether in paper or electronic form, and retains all common law, statutory and other reserved rights, including copyright.

JOB TITLE  
RESIDENCE INN  
BY MARRIOTT  
A NEW 98 ROOM HOTEL  
PORTAGE, MI

JOB NO.  
24109

DATE  
05/29/24

REVISIONS

**PRELIMINARY NOT FOR CONSTRUCTION**

SHEET NO.  
**A9.1**

FF&E CORE PLAN  
ENLARGEMENT



PLUMBING FIXTURE SCHEDULE						
CALL OUT	FIXTURE TYPE	ACCESSORIES	MODEL NUMBER	FINISH	MANUFACTURER	PROTOTYPE CALL OUT
P1	TANK TOILET - GUEST	"CADET PRO ELONGATED TOILET" 128 GPF (WATERSENSE CERTIFIED) ELONGATED SEAT, CLOSED FRONT WITH COVER, "STA-TITE" FASTENING SYSTEM	MDL #15CA104020 MDL #1900TDGSL WATER SUPPLY STOP TO BE MOUNTED 10" AFF.	WHITE WHITE	AMERICAN STANDARD BEMIS	UCL-01
P2	ADA TANK TOILET - GUEST	"CADET PRO RIGHT HEIGHT ELONGATED TOILET" 128 GPF (WATER SENSE CERTIFIED) RIGHT HAND FLUSH TOILET WITH CONCEALED TRAP ELONGATED SEAT, CLOSED FRONT WITH COVER, "STA-TITE" FASTENING SYSTEM	MDL #15AA104020 MDL #1900TDGSL WATER SUPPLY STOP TO BE MOUNTED 10" AFF.	WHITE WHITE	AMERICAN STANDARD BEMIS	UCL-03
P3	FLUSHMETER TOILET	"MADERA ELONGATED FLUSH VALVE TOILET" 110 TO 160 GPF ELONGATED SEAT, OPEN FRONT W/ NO COVER, "JUST-LIFT" INTEGRATED HINGE SYSTEM, "STA-TITE" FASTENING SYSTEM EXPOSED FLUSH VALVE - ELECTRONIC OPERATION	MDL #2234001020 MDL #195CTJ MDL #61479161002	WHITE WHITE CHROME	AMERICAN STANDARD CHURCH, A DIVISION OF BEMIS AMERICAN STANDARD	UCL-05
P4	ADA FLUSHMETER TOILET	"MADERA ADA ELONGATED FLUSH VALVE TOILET" ELONGATED SEAT, OPEN FRONT W/ NO COVER, "JUST-LIFT" INTEGRATED HINGE SYSTEM, "STA-TITE" FASTENING SYSTEM EXPOSED FLUSH VALVE - ELECTRONIC OPERATION	MDL #2234001020 MDL #195CTJ MDL #61479161002	WHITE WHITE CHROME	AMERICAN STANDARD CHURCH, A DIVISION OF BEMIS AMERICAN STANDARD	UCL-06
P5	ADA URINAL	WASHBROOK URINAL FLUSHMETER	MDL #65920001020 MDL #60630130020	WHITE CHROME	AMERICAN STANDARD AMERICAN STANDARD	URN-01
P6	COUNTER TOP LAVATORY GUEST	STUDIO UNDERCOUNTER LAVATORY FAUCET P-TRAP	MDL #061420001020 MDL #61-MFU-D8T MDL K-8938	WHITE CHROME CHROME	AMERICAN STANDARD DELTA KOHLER	SINK-25
P7	ADA COUNTER TOP LAVATORY GUEST	STUDIO UNDERCOUNTER LAVATORY FAUCET	MDL #061420001020 MDL #61-MFU-D8T	WHITE CHROME	AMERICAN STANDARD DELTA	SINK-25
P8	WALL HUNG LAVATORY EMPLOYEE	LUCERNE WALL-MOUNT SINK NEXTGEN SELECTRONIC INTEGRATED TOUCHLESS LAVATORY FAUCET TOUCHLESS LAVATORY FAUCET POUER SUPPLY LAVATORY GRID DRAIN WITH OVERFLOW	MDL #03950121020 MDL #175B103 MDL #FK01-HAC MDL #2411015	CHROME CHROME CHROME CHROME	AMERICAN STANDARD AMERICAN STANDARD AMERICAN STANDARD AMERICAN STANDARD	SINK-03
P9	COUNTER TOP LAVATORY PUBLIC	OVALYN UNDER-MOUNT LAVATORY NEXTGEN SELECTRONIC INTEGRATED TOUCHLESS LAVATORY FAUCET TOUCHLESS LAVATORY FAUCET POUER SUPPLY LAVATORY GRID DRAIN WITH OVERFLOW	MDL #0496211020 MDL #175B103 MDL #FK01-HAC MDL #2411015	CHROME CHROME CHROME CHROME	AMERICAN STANDARD AMERICAN STANDARD AMERICAN STANDARD AMERICAN STANDARD	SINK-04
P10	TUB / SHOWER SHOWER HEAD MOUNTED 6'-10" AFF.	PRINCETON RECESS BATH MINCEY MARBLE SHOWER SURROUND (CAST POLYMER) "COMPEL" SERIES TUB/SHOWER TRIM W/ SHOWER ARM AND FLANGE FOR FIXED SHOWER HEAD W/ RED/BLUE INDEX W/ DIVERTER TUB SPOUT AND PRESSURE BALANCE VALVE / LESS SHOWER-HEAD H2O KINETIC TECHNOLOGY TOUCH CLEAN MULTIFUNCTION SHOWER HEAD	MDL #2391201020 R MDL #2390201020 L REFER INTERIOR FINISH INDEX 06 61 13 MDL #14661-LHD 4 R10000-UNUS DRAIN MDL #20410 MDL #2639-20-FK	WHITE WHITE CHROME CHROME CHROME	AMERICAN STANDARD MINCEY MARBLE DELTA MOEN DELTA	TUB-06
P11	ADA TUB / SHOWER SHOWER HEAD MOUNTED 6'-10" AFF.	PRINCETON RECESS BATH MINCEY MARBLE SHOWER SURROUND (CAST POLYMER) "COMPEL" SERIES TUB/SHOWER TRIM W/ SHOWER ARM AND FLANGE FOR FIXED SHOWER HEAD W/ RED/BLUE INDEX AND PRESSURE BALANCE VALVE / LESS SHOWER-HEAD H2O KINETIC TECHNOLOGY TOUCH CLEAN MULTIFUNCTION SHOWER HEAD "PERSONAL HAND HELD SHOWER" / SUPPLY ELBOW / 60" METAL SHOWER HOSE, PROVIDE IN-LINE VACUUM BREAKER FOR HAND HELD SHOWER HEAD (BY TRIM MANUFACTURER'S SETTINGS) "COMPEL" SERIES 3-FUNCTION DIVERTER TRIM WITH DIVERTER ROUGH VALVE BODY FOR FIXED TO HANDHELD SHOWER HEAD	MDL #2391201020 R MDL #2390201020 L REFER INTERIOR FINISH INDEX 06 61 13 MDL #14661-LHD 4 R10000-UNUS 4 50560 DRAIN MDL #20410 MDL #59445-FK HAND HELD MDL #2639-20-FK MDL #11061 4 R10000	WHITE WHITE CHROME CHROME CHROME	AMERICAN STANDARD MINCEY MARBLE DELTA DELTA DELTA	TUB-07
P12	SHOWER SHOWER HEAD MOUNTED 6'-10" AFF.	60" X 34" SINGLE-TIER SHOWER BASE MINCEY MARBLE, CUSTOM SHOWER SURROUND WITH SOAP DISH H2O KINETIC TECHNOLOGY TOUCH CLEAN MULTIFUNCTION SHOWER HEAD "COMPEL" SERIES SHOWER TRIM W/ SHOWER ARM AND FLANGE FOR FIXED SHOWER HEAD W/ RED/BLUE INDEX WITH PRESSURE BALANCE VALVE / LESS SHOWER-HEAD DRAIN COVER FOR 60" X 34" SHOWER BASE	MDL #CFF-TD-3460-09/SF--(L OR R) CONTACT: DONNA MINCEY, (710) 532-045 MDL #2639-20-FK MDL #14261-LHD 4 R10000-UNUS MDL #K-9132-CP	WHITE WHITE CHROME CHROME CHROME	MINCEY MARBLE MINCEY MARBLE DELTA DELTA KOHLER	SHR-11
P13	ADA SHOWER SHOWER HEAD MOUNTED 6'-10" AFF.	ENTIRE ADA ROLL-IN SHOWER TO BE TILED H2O KINETIC TECHNOLOGY TOUCH CLEAN MULTIFUNCTION SHOWER HEAD "COMPEL" SERIES TUB/SHOWER TRIM W/ SHOWER ARM AND FLANGE FOR FIXED SHOWER HEAD W/ RED/BLUE INDEX W/ PRESSURE BALANCE VALVE / LESS SHOWER-HEAD "PERSONAL HAND HELD SHOWER" / SUPPLY ELBOW / 60" METAL SHOWER HOSE, PROVIDE IN-LINE VACUUM BREAKER FOR HAND HELD SHOWER HEAD (BY TRIM MANUFACTURER'S SETTINGS) "COMPEL" SERIES 3-FUNCTION DIVERTER TRIM WITH DIVERTER ROUGH VALVE BODY FOR FIXED TO HANDHELD SHOWER HEAD	MDL #2639-20-FK MDL #14261-LHD 4 R10000-UNUS MDL #59445-FK HAND HELD MDL #11061 4 R10000 MDL #OATEY DRAIN	CHROME CHROME CHROME CHROME	BY OWNER DELTA DELTA DELTA	SHR-13
P14	GUEST ROOM BAR SINK KITCHEN	SHOWER SEAT - NYLON COATED - WALL MOUNTED UNDERTONE UNDERMOUNT KITCHEN SINK CONTEMPORARY BAR SINK FAUCET GARBAGE DISPOSAL	MDL #K11061 4 R10000 MDL #OATEY DRAIN MDL K-3336 MDL #9591F MDL #CF325N	CHROME CHROME	DELTA KOHLER DELTA GE	SNK-23
P15	WASHER BOX	QUADTRO WASHING MACHINE OUTLET BOX	MDL #28530	WHITE	OATEY	
P16	EMPLOYEE BREAKROOM SINK	LUSTERTONE 6.5.21 X 15-3/4 X 5-1/2 SINGLE-BOWL SINK TOP MOUNT FOUNDATION SERIES SINGLE-HANDLE DECK MOUNT FAUCET W/ SIDESPRAY AND LEVER HANDLE W/ RED/BLUE INDEX GARBAGE DISPOSAL	MDL #RAD2521 X 5-1/2 DEEP MDL #B4410LF MDL #CF325N	STAINLESS STEEL CHROME	ELKAY DELTA GE	SNK-13
P17	PREP SINK	ADVANCE TABCO WELDED SINK TINKEY KITCHEN SINK FAUCET WITH SPRAY	MDL TA-11J MDL #140840015	STAINLESS STEEL	ADVANCE TABCO AMERICAN STANDARD	
P18	HAND WASH SINK	HAND SINK, WALL MOUNTED, 14" WIDE X 10" FRONT-TO-BACK X 5" DEEP BOWL, 20 GAUGE 304 STAINLESS STEEL, WITH SPLASH MOUNTED FAUCET W/ WRIST BLADE HANDLES, SOAP DISPENSOR, LEVER DRAIN W/ OVERFLOW AND P-TRAP, WALL BRACKET, NSF	MDL #1-FS-80	STAINLESS STEEL CHROME	ADVANCE TABCO KOHLER	
P19	TRENCH DRAIN # WATER ROOM	10" TRENCH DRAIN KIT COMPLETE	MDL #2806-Z-16-RFGC-DB		ZURN	
P20	LAUNDRY SINK	40" UTILATIUN LAUNDRY TUB TWO-HANDLE LAUNDRY FAUCET	MDL #17FX18300F MDL #133	WHITE CHROME	MUSTEE DELTA	SVS-02
P21	MOP SINK	MOP SERVICE BASIN-1 PIECE, MOLDED FIBERGLASS CONSTRUCTION INTEGRALLY MOLDED CENTER DRAIN WITH SEAL EXPOSED YOKE WALL MOUNT UTILITY FAUCET WITH TOP BRACE AND VACUUM BREAKER HEAVY DUTY 5/8" DIAMETER 3" RUBBER HOSE SPRING LOADED MOLDED RUBBER HOSE HOLDER ON STAINLESS STEEL WALL PLATE 12" HIGH 20 GAUGE 304 STAINLESS STEEL WALL GUARD / WALL MOUNTED MOP HANGER	MDL #63M MDL #979 MDL #65700 MDL #612424 MDL #63600	WHITE CHROME STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL	MUSTEE DELTA EL. MUSTEE 4 BONS EL. MUSTEE 4 BONS EL. MUSTEE 4 BONS	MOP-01
P22	TRIPLE SINK	THREE COMPARTMENT SINK WITH DISPOSER CONE AND 150-200 DISPOSER (1) BACKFLASH MOUNTED PRE-RINSE FAUCET WITH WALL BRACKET AND 8" CENTERS - 12" SWING SPOUT (1) WALL MOUNTED FAUCET WITH 8" CENTERS, 12" SWING NOZZLE, 22 GPM AERATOR, AND LEVER HANDLES. 1000 GALLON EXTERIOR GREASE TRAP	MDL #93-3-120-48L18R MDL #21-320 MDL #4891 MDL #3253	STAINLESS STEEL CHROME CHROME CHROME	ADVANCE TABCO INSINKERATOR FISHER FISHER	
P23	URN TROUGH	12" DROP IN TROUGH	MDL #1A521	STAINLESS STEEL	ADVANCE TABCO	
P24	3" FLOOR SINK	3" PIPE FIT - COMPLETE FLOOR SINK KIT - 1/2 TOP GRATE - FLAT BOTTOM GRATE PVC	MDL #559-063	WHITE	JONES STEPHENS	
P25	3" FLOOR DRAIN	CAST IRON W/ POLISHED BRONZE ADJUST STRAINER, (2)-PIECE BODY FLASHING COLLAR CLAMP, 4 P-TRAP OR APPROVED EQUAL W/ TRAP PRIMER	MDL #2415B	POLISHED BRONZE	ZURN	
P26	4" FLOOR DRAIN	CAST IRON W/ POLISHED BRONZE ADJUST STRAINER, (2)-PIECE BODY FLASHING COLLAR CLAMP, 4 P-TRAP OR APPROVED EQUAL W/ TRAP PRIMER	MDL #2415B	POLISHED BRONZE	ZURN	
P27	POINT OF USE INLINE WATER FILTER	DESIGNED FOR USE WITH ICE MAKERS, SINGLE WATER FILTER, WITH SPECIAL SCALE INHIBITOR	MODEL #IF4C		ICE-O-MATIC	
P28	BOTTLE FILLING STATION	HYDRATION STATION WITH LIFE CYCLE	MDL #2000SN	POLISCHROME 4 WHITE	HAUS	
P29	COMMERCIAL CLOTHS WASHER W/ 6" X 8" TRENCH DRAIN	COMMERCIAL CLOTH WASHERS TRENCH DRAIN	PROVIDED BY OWNER CP2886-06	POLISHED BRONZE	ZURN	
P30	DRINKING FOUNTAIN-POOL DECK	B1-LEVEL NON-REFRIGERATED DRINKING FOUNTAIN	MDL #JRF-8EBP	WHITE	HALSEY TAYLOR	
P31	HOSE BIBB	NARROW WALL HYDRANT	MDL #1349		ZURN	
P32	WALL HYDRANT	HYDRANT WITH A 16" WALL THICKNESS	MDL #1320		ZURN	
P33	POOL SHOWER	KOHLER ARTIFACTS RITE-TEMP PRESSURE BALANCED SHOWER SYSTEM WITH SHOWER HEAD AND HAND SHOWER	MDL #K-ARTIFACTS-RTII-4-CP	CHROME	KOHLER	
P34	EMERGENCY EYE WASH	SPEAKMAN WALL MOUNTED EMERGENCY EYEWASH WITH THERMOSTATIC MIXING VALVE	MDL #SE-582 MDL #320IEPE		SPEAKMAN HAUS	
P35	WATER FILTER	TRIPLE CLEAR FORCE FIELD	MDL #EV-9324-61		EVER PURE	
P36	AREA DRAIN	12" ROUND AREA DRAIN	MDL #2541		ZURN	
P37	YARD HYDRANT	NON-FREEZE WALL HYDRANT W/"T" HANDLE KEY AND BRONZE HYDRANT BOX W/ BACK FLOW PREVENTER # DUMFSTER	Y34 WITH BACKFLOW PREVENTER	RED / GALVANIZED	WOODFORD	
P38	HAND WASH SINK AT BAR	HAND WASH SINK			BY OWNER	
P39	BLENDER STATION AT BAR	BLENDER STATION			BY OWNER	

PLUMBING FIXTURE UNIT SCHEDULE 24109										
COUNT	TYPE	FIXTURE	DRAINAGE FIXTURE UNITS				WATER SUPPLY FIXTURE UNITS			
			EA	TOTAL	COLD	HOT	TOTAL HOT	EA	TOTAL	
97	P1	TANK TOILET	3	291	2.2	0.0	0.0	2.2	213.4	
5	P2	ADA TANK TOILET	3	15	2.2	0.0	0.0	2.2	11.0	
1	P3	FLUSH VALVE TOILET	4	4	10.0	0.0	0.0	10.0	10.0	
4	P4	ADA FLUSH VALVE TOILET	4	16	10.0	0.0	0.0	10.0	40.0	
1	P5	ADA URINAL	2	2	5.0	0.0	0.0	5.0	5.0	
97	P6	COUNTERTOP LAV - GUEST ROOM	1	97	0.5	0.5	50.9	0.7	67.9	
5	P7	ADA COUNTERTOP LAV GUEST ROOM	1	5	0.5	0.5	2.6	0.7	3.5	
2	P8	WALL HUNG LAV	1	2	0.5	0.5	1.0	0.7	1.4	
4	P9	COUNTERTOP LAV PUBLIC	1	4	1.5	1.5	6.0	2.0	8.0	
19	P10	TUBSHOWER	2	38	1.0	1.0	19.0	1.4	26.6	
4	P11	HC TUBSHOWER	2	8	1.0	1.0	4.0	1.4	5.6	
78	P12	SHOWER	2	156	1.0	1.0	78.0	1.4	109.2	
1	P13	H.C. SHOWER	2	2	1.0	1.0	1.0	1.4	1.4	
98	P14	GUEST RM BAR SINK	2	196	1.0	1.0	98.0	1.4	137.2	
4	P15	WASHER BOX	3	12	3.0	3.0	12.0	4.0	4.0	
1	P16	EMPLOYEE BREAKROOM SINK	2	2	1.0	1.0	1.0	2.0	2.0	
1	P17	PREP SINK	2	2	1.0	1.0	1.0	2.0	2.0	
1	P18	HAND WASH SINK	1	1	1.5	1.5	1.5	2.0	2.0	
1	P19	4'TRENCH DRAIN	6	6	0.0	0.0	0.0	0.0	0.0	
1	P20	LAUNDRY SINK	2	2	2.3	2.3	2.3	3.0	3.0	
2	P21	MOP SINK	2	4	2.3	2.3	4.5	3.0	6.0	
1	P22	TRIPLE SINK	3	3	3.0	3.0	3.0	4.0	4.0	
1	P23	URN TROUGH	1	1	0.0	0.0	0.0	0.0	0.0	
3	P24	3" FLOOR SINK	0	0	0.0	0.0	0.0	0.0	0.0	
16	P25	3" FLR DRAIN	2	32	0.0	0.0	0.0	0.0	0.0	
2	P26	4" FLR DRAIN	2	4	0.0	0.0	0.0	0.0	0.0	
1	P27	ELECTRIC DRINKING FOUNTAIN	0.5	0.5	0.3	0.2	0.2	0.3	0.3	
1	P28	BOTTLE FILLING STATION	0.5	0.5	0.3	0.2	0.2	0.3	0.3	
1	P29	COM. CLOTHS WASHER W/ 6'TRENCH DRAIN	6	6	6.0	6.0	6.0	8.0	8.0	
1	P30	DRINKING FOUNTAIN	0.5	0.5	0.3	0.2	0.2	0.3	0.3	
2	P31	HOSE BIB	0	0	1.0	0.0	0.0	1.0	2.0	
5	P32	WALL HYDRANT	0	0	1.0	0.0	0.0	1.0	5.0	
1	P33	POOL SHOWER	2	2	1.0	1.0	1.0	1.4	1.4	
4	P34	EYEWASH	0	0	0.0	0.0	0.0	0.0	0.0	
1	P35	WATER FILTER	0	0	0.0	0.0	0.0	0.0	0.0	
2	P36	AREA DRAIN STORM DRAIN	0	0	0.0	0.0	0.0	0.0	0.0	
1	P37	YARD HYDRANT	0	0	2.0	0.0	0.0	1.0	1.0	
1	P38	HAND WASH SINK AT BAR	1	1	1.5	1.5	1.5	2.0	2.0	
1	P39	BLENDER STATION	1	1	1.5	1.5	1.5	2.0	2.0	
472	TOTALS			917			296.5		885.5	

**ARCHITECTURAL GROUP III**

201 S. Nappanee St. Elkhart Indiana 46514-1953 574/293-0008  
architecturalgroup3.com

The Architect warrants the author, origin and owner of the documents, whether in paper or electronic form, and retains all common law, statutory and other reserved rights, including copyright.

JOB TITLE  
RESIDENCE INN  
BY MARRIOTT  
A NEW 98 ROOM HOTEL  
PORTAGE, MI

JOB NO.  
24109  
DATE  
05/29/24

REVISIONS

PRELIMINARY NOT FOR CONSTRUCTION  
SHEET NO.  
**PO.1**  
PLUMBING  
SCHEDULE &  
DETAILS



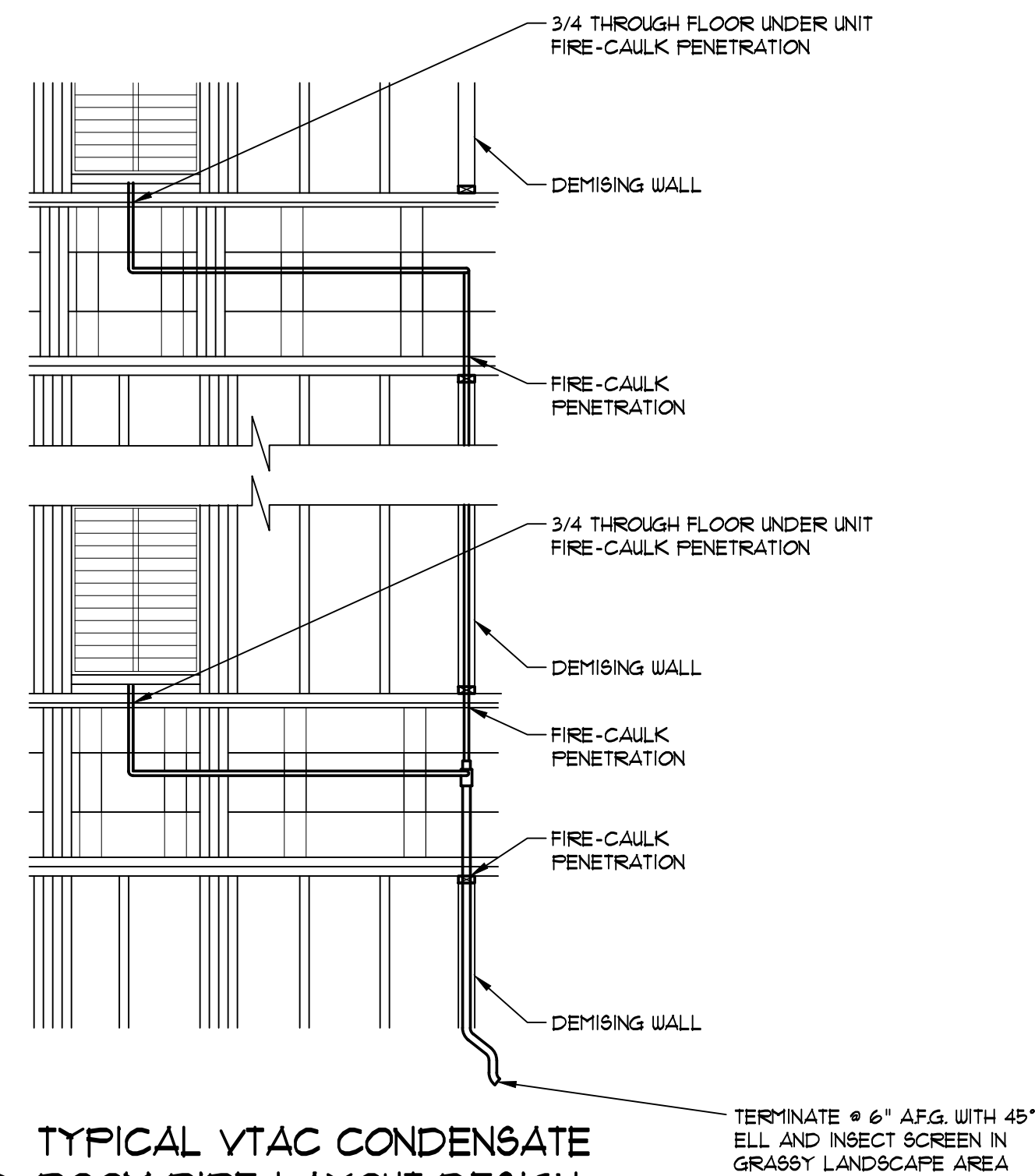
TABLE - 1		
FIXTURE*	COLD	HOT
WC - TANK	5	
LAV / SINK	1.5	1.5
URINAL	5	
SERVICE SINK	2.5	2.5
DF / EWC LAV	5	
SHOWER / TUB LAV	2	2
C. WASHER	2	2
3 - COMP. SINK	2	2

TABLE - 2				
PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD	MODEL NUMBER	
A	1/2"	1 - 11	#100	
B	3/4"	12 - 32	#200	
C	1"	33 - 60	#300	
D	1 1/4"	61 - 113	#400	
E	1 1/2"	114 - 154	#500	
F	2"	155 - 330	#600	

1. ALL MODEL NUMBERS BASED ON ZURN, WATTS, SIOUX CHIEF OR PRECISION PLUMBING PRODUCTS OR APPROVED EQUALS.  
 2. SIZE UNITS BY REFERRING TO TABLE - 1 FOR FIXTURE UNIT LOAD AND TABLE - 2 FOR WATER HAMMER ARRESTER SIZE AND MODEL NUMBER.  
 3. ARRESTERS SHALL HAVE ASSE #1010 AND ANSI #A12.26 M CERTIFICATION. INSTALL PER PDI STANDARD PDI-UH-201

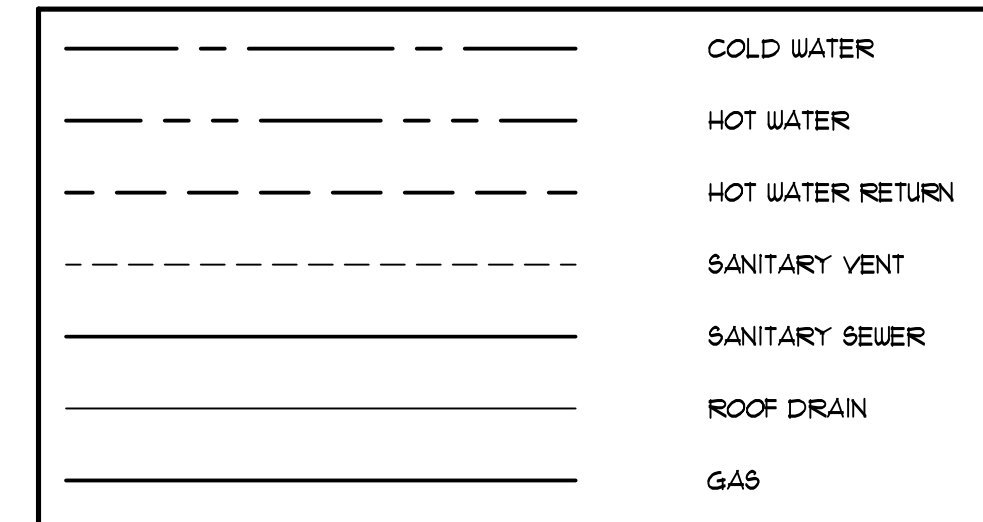
\* SEE PLUMBING CODE FOR ADDITIONAL UNIT LOADS NOT LISTED IN TABLE - 1

### WATER HAMMER ARRESTERS



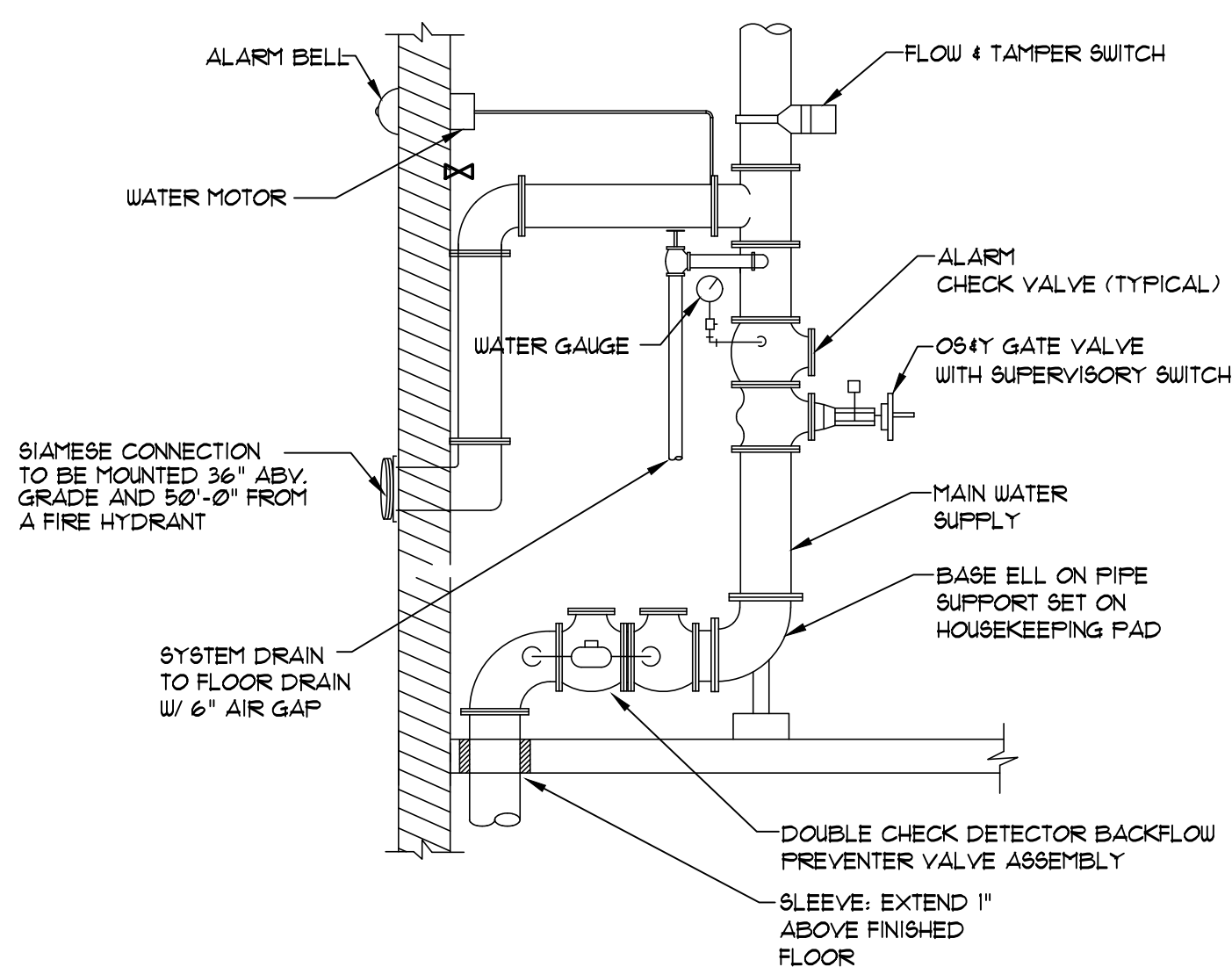
4 TYPICAL VTAC CONDENSATE ROOM PIPE LAYOUT DESIGN  
 SCALE: 3/16" = 1'-0"

EQUIPMENT SCHEDULE:	
<b>FIELD VERIFY WATER PRESSURE AT BEGINNING OF CONSTRUCTION TO CONFIRM REQUIREMENTS REPORTED # 64 - 10 PSI AND REPORTED # 19 GRAINS HARDNESS. FIELD VERIFY:</b>	
<b>WATER HEATER:</b> (6 REQUIRED)	CYCLONE SEALED COMBUSTION WATER HEATERS 1990000 BTU/H. A.O. SMITH BTH-193 W/ MANIFOLD KIT FURNISH BALL VALVES AS SHOWN ON PLANS. (1) FMC-10 EXPANSION TANK FOR EACH WATER HEATER (1) VACUUM BREAKER ON INCOMING COLD WATER FOR EACH WATER HEATER
<b>RECIRCULATING PUMP:</b>	BELL & GOSSETT MODEL # NBF 22 OR GRUNDFOS MODEL # ALPHA2 25-50N180 OR APPROVED EQUAL.
<b>BALANCING VALVE:</b>	CIRCUIT SOLVER BALANCING VALVE - MODEL #CS-(SIZE OF PIPE)-(TEMPERATURE OF WATER). EXAMPLE MODEL #CS-1/2-120 TYPICAL ALL OF 3RD FLOOR IS 1/2" PIPE WITH 120° WATER
<b>BACK FLOW PREVENTER:</b>	3" WILKINS MDL 375AST 3" REDUCED PRESSURE ZONE TYPE WITH OSY VALVES 1" WILKINS MDL #375 INSTALLED AT THE POOL REFILL LINE. 2" WILKINS MDL #375 INSTALLED AT THE YARD IRRIGATION SUPPLY LINE.
<b>THERMOSTATIC MIXING VALVE:</b>	ARMSTRONG (THE BRAIN) MODEL (1) DRV40-AD3 WITH THERMOMETER INSTALL PER MANUFACTURERS RECOMMENDATIONS ZURN/WILKINS MODEL 1010 THERMOSTATIC MIXING VALVE SET AT 110° TO BE INSTALLED ON THE HOT SIDE OF ALL PUBLIC LAVATORIES AND HAND WASHING SINKS
<b>BOOSTER PUMPS</b>	TOWLE WHITNEY T2018U-180G-40 CONTACT (Dennis Whitely) 800-807-9821 OR towe-whitney.com 200 GPM @ 33 PSI BOOST 88 PSI SET POINT 26 GALLON NON-ASME TANK
<b>WATER SOFTNER</b> (1 BRINE TANK REQUIRED) (3 SOFTENER TANKS REQUIRED)	CULLIGAN MATRIX SYSTEM CSM 210-2NC TRIPLEX PROGRESSIVE DESIGN
<b>SUMP PUMP</b> (2 REQUIRED FOR ELEVATOR) (1 REQUIRED FOR POOL)	ZOELLER SUMP PUMP MODEL #N6161 115V 62 GPM @ 30 FT RISE ZOELLER SUMP PUMP AQUA-MATE N2 115V 38 GPM, WITH 18" SUMP PIT

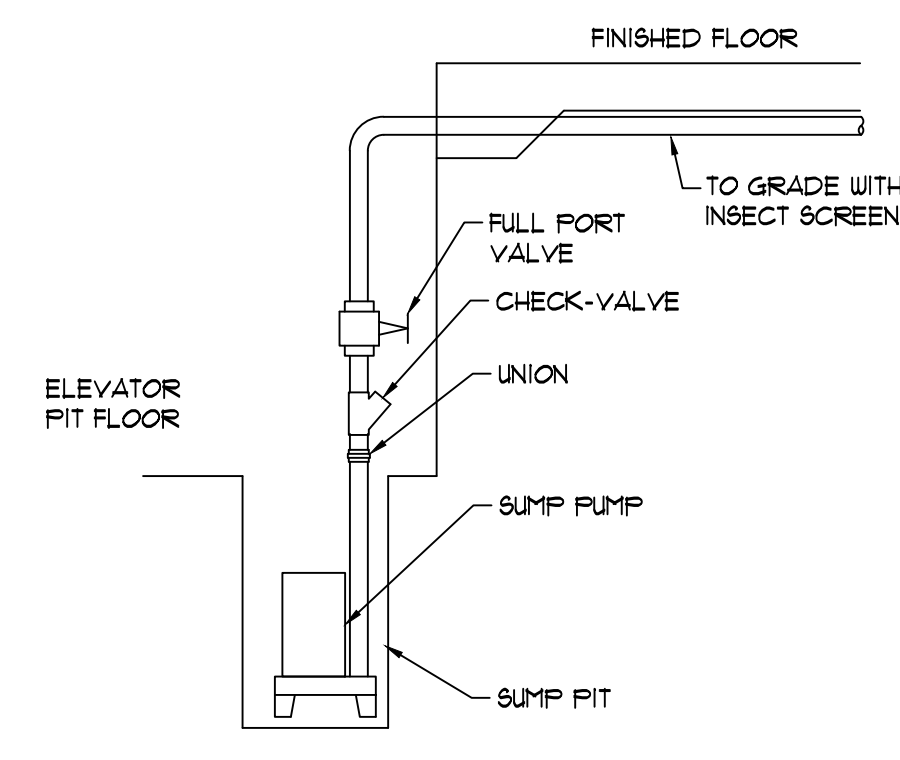


### GENERAL PLUMBING NOTES:

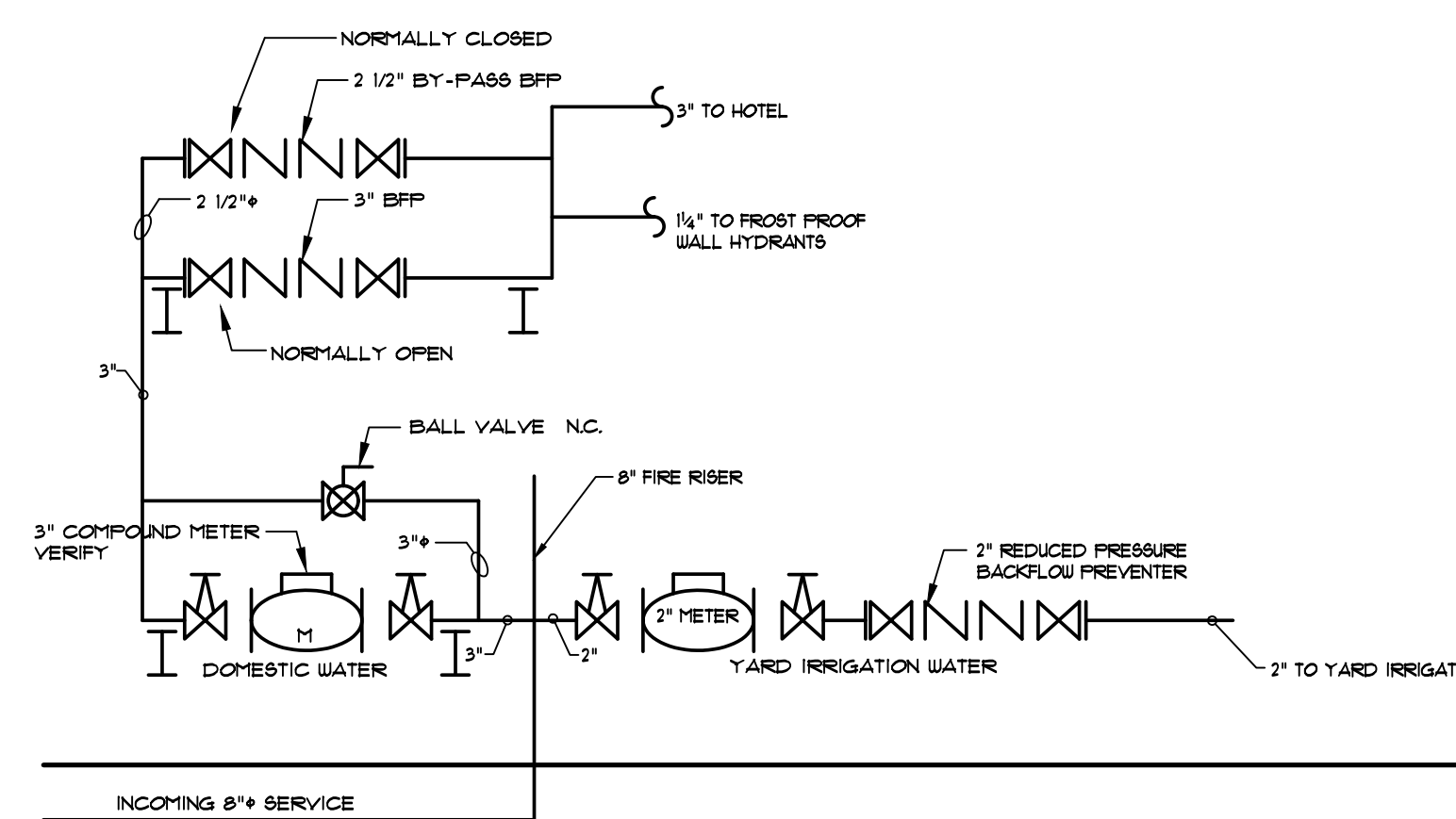
- ALL GUEST ROOMS SHALL BE CONTROLLED BY INDIVIDUAL HOT AND COLD SHUT OFF VALVES IN THE CORRIDOR
- ALL PLUMBING PENETRATIONS SHALL BE SEALED OFF @ EACH FLOOR AS PER THE FIRE CAULKING SPECIFICATIONS.
- ALL PLUMBING SUPPLIES LOCATED WITHIN A GUEST ROOM TO HAVE A 1/4 TURN STOP UNDER THE FIXTURE. TUB AND/OR SHOWERS TO HAVE AN INTEGRAL STOP.
- PLUMBING SHALL SUSTAIN 100 PSI TEST IN WATER LINES FOR 24 HRS. (TYP.)
- WATER PIPING MAINS ARE LOCATED IN FIRST FLOOR CEILING SPACE. INSULATE ALL WATER PIPING IN CEILING SPACE.
- ALL DRAINAGE PIPING IN PARTY WALLS SHALL BE INSULATED.
- INSTALL BALL VALVES AT EACH TAKEOFF ON HOT/COLD WATER IN CEILING OF CORRIDOR TO ISOLATE EACH BRANCH AND WHERE SHOWN ON DUGS.
- COORDINATE LOCATION OF ALL WATER LINES ABOVE CORRIDOR FINISHED CEILING WITH RESPECTIVE TRADES. (TYPICAL)
- ALL WASTE PIPING BELOW SLAB SHALL BE SCH 40 PVC A MINIMUM OF 2". NO EXPOSED PLASTIC PIPE IN GUESTROOMS, MUST BE CHROME
- INSTALL A FULL SIZE ACCESSIBLE CLEAN-OUT AT THE BASE OF EVERY STACK, NOT TO BE VISIBLE FROM THE CORRIDOR.
- ALL WORK TO CONFORM TO STATE AND LOCAL PLUMBING AND BACKFLOW PREVENTION CODES AND THE SPECIFICATIONS OF THE LOCAL WATER UTILITY.
- ALL WATER LINES 3" AND LARGER MUST BE DISINFECTED, SAMPLES FROM THREE CONSECUTIVE DAYS MUST BE TAKEN TO AN APPROVED TESTING LAB, AND THE LAB ANALYSES REPORTS MUST BE SUBMITTED TO THE WATER ENGINEERING DEPARTMENT SHOWING THAT THE SAMPLES HAVE PASSED THE TESTS FOR THREE CONSECUTIVE DAYS.
- VACUUM BREAKERS MUST BE INSTALLED ON ALL HOSE BIBS, MOP/SERVICE SINKS, WALL/YARD HYDRANTS.
- PER STATE CODE, BACKFLOW DEVICES ARE TO BE TESTED UPON INSTALLATION AND THEN PERIODICALLY THEREAFTER. SUBMIT COPIES OF TESTS TO THE WATER ENGINEERING DEPARTMENT.
- PLUMBING CONTRACTOR SHALL ROUTE NEW CITY WATER SUPPLY LINE UP THROUGH SLAB INTO MECHANICAL ROOM. INSTALL SLEEVE TO PROTECT CITY WATER LINE FROM CONCRETE. FURNISH AND INSTALL FULL SIZE BUTTERFLY SHUT-OFF VALVE AT CITY WATER ENTRANCE TO MECHANICAL ROOM.
- IN CONCEALED LOCATIONS WHERE PIPING, OTHER THAN CAST-IRON OR GALVANIZED STEEL, IS INSTALLED THROUGH HOLES OR NOTCHES IN STUDS, JOISTS, RAFTERS OR SIMILAR MEMBERS LESS THAN 1 1/2" INCHES FROM THE NEAREST EDGE OF THE MEMBER, THE PIPE SHALL BE PROTECTED BY SHIELD PLATES. PROTECTIVE SHIELD PLATES SHALL BE A MINIMUM OF 1/16" INCH THICK STEEL, SHALL COVER THE AREA OF THE PIPE WHERE THE MEMBER IS NOTCHED OR BORED, AND SHALL EXTEND A MINIMUM OF 2 INCHES ABOVE AND BELOW THE PIPE.
- A FRAMING MEMBER SHALL NOT BE CUT, NOTCHED OR BORED IN EXCESS OF LIMITATIONS SPECIFIED IN THE BUILDING CODE.
- FIXTURES WITH CONCEALED SLIP-JOINT CONNECTIONS SHALL BE PROVIDED WITH AN ACCESS PANEL OR UTILITY SPACE AT LEAST 12 INCHES IN ITS SMALLEST DIMENSION OR OTHER APPROVED ARRANGEMENT SO AS TO PROVIDE ACCESS TO THE SLIP CONNECTIONS FOR INSPECTION AND REPAIR. WHERE SUCH ACCESS CANNOT BE PROVIDED, ACCESS DOORS SHALL NOT BE REQUIRED PROVIDED THAT ALL JOINTS ARE SOLDERED, SOLVENT CEMENTED OR SCREWED SO AS TO FORM A SOLID CONNECTION.
- ALL WATER PIPING LESS THAN 1 1/2" SHALL BE INSULATED WITH 1/2" THK. FOAM PIPE INSULATION ALL WATER PIPING GREATER THAN 1 1/2" SHALL BE INSULATED WITH 1" THK. FOAM PIPE INSULATION
- WATER PIPING FOR THE SWIMMING POOL IS NOT SHOWN WITHIN THIS SET OF DRAWINGS. CONSULT WITH POOL MANUFACTURER FOR ALL WATER PIPING REQUIREMENTS. (TYPICAL)
- ALL WATER PIPING ABOVE GRADE SHALL BE FLOUGUARD GOLD CPVC TRUNK LINES AND FEED LINES FROM A MANIFOLD IN THE CORRIDOR TO EA FIXTURE. ALL WATER PIPING BELOW GRADE SHALL BE TYPE K' COPPER.
- ALL BRANCH WATER LINES TO PLUMBING FIXTURES SHALL BE MIN 1/2", NO MORE THAN ONE FIXTURE ON 1/2" LINE. (TYPICAL UNLESS OTHERWISE NOTED)
- ALL VALVES SHALL BE FULL PORT BALL VALVES. (TYPICAL)
- INSTALL TEMPERING VALVE IN STRICT ACCORDANCE WITH MANUFACTURE'S WRITTEN INSTALLATION INSTRUCTIONS. MAXIMUM 120° WATER TO GUEST ROOMS.
- ALL PIPING LAYOUTS ARE DIAGRAMMATIC PURPOSES ONLY. (TYP.) ACTUAL PIPING TO BE COORDINATED WITH OTHER TRADES & FRAMING MEMBERS.
- INSTALL CIRCUIT SOLVER BALANCING VALVES ON ALL HOT WATER CIRCULATING BRANCH LINES.
- FURNISH AND INSTALL 1/2" COLD WATER PIPING WITH BALL VALVES TO ALL ICE MACHINES.
- 1 1/4" TAKE OFFS WITH FULL PORT BALL VALVES TO ALL PLUMBING GROUPS WITH 1 1/4" RISERS UP TO THE MID LEVEL FLOORS, 1" RISER UP TO THE TOP FLOOR, 1" RUNS INTO EACH ROOM. 1/2" RETURN ON HOT SIDE FROM THE TOP FLOOR WITH A BALANCING VALVE ABOVE CEILING
- ALL WATER CLOSETS TO HAVE 3" DRAIN PIPE
- FURNISH AND INSTALL TRAP PRIMER ON ALL FLOOR DRAINS
- HORIZONTAL BRANCHES SHALL CONNECT TO THE BASES OF STACKS AT A POINT LOCATED NOT LESS THAN 10 TIMES THE DIAMETER OF THE DRAINAGE STACK DOWNSTREAM FROM THE STACK. 40 INCHES FOR A 4" STACK
- HORIZONTAL ROOF DRAIN PIPING MUST BE INSULATED WITH 3/4" THICK FOAM INSULATION
- WATER HAMMER ARRESTORS ON HOT AND COLD WATER SUPPLY PIPES IN EACH PLUMBING GROUP ON EACH FLOOR REFER TABLE ON SHEET P02.
- ALL PIPING TO BE SUPPORTED ACCORDING TO THE LOCAL PLUMBING CODE OR PER MANUFACTURE'S INSTRUCTIONS WHICHEVER IS MOST STRINGENT. PIPE SUPPORTS ARE TO BE DESIGNED FOR THE PIPE BEING SUPPORTED.
- ALL METAL PIPING TO BE INSULATED WITH CLOSED-CELL ELASTOMERIC INSULATION.



1 SPRINKLER RISER DETAIL  
 NOT TO SCALE

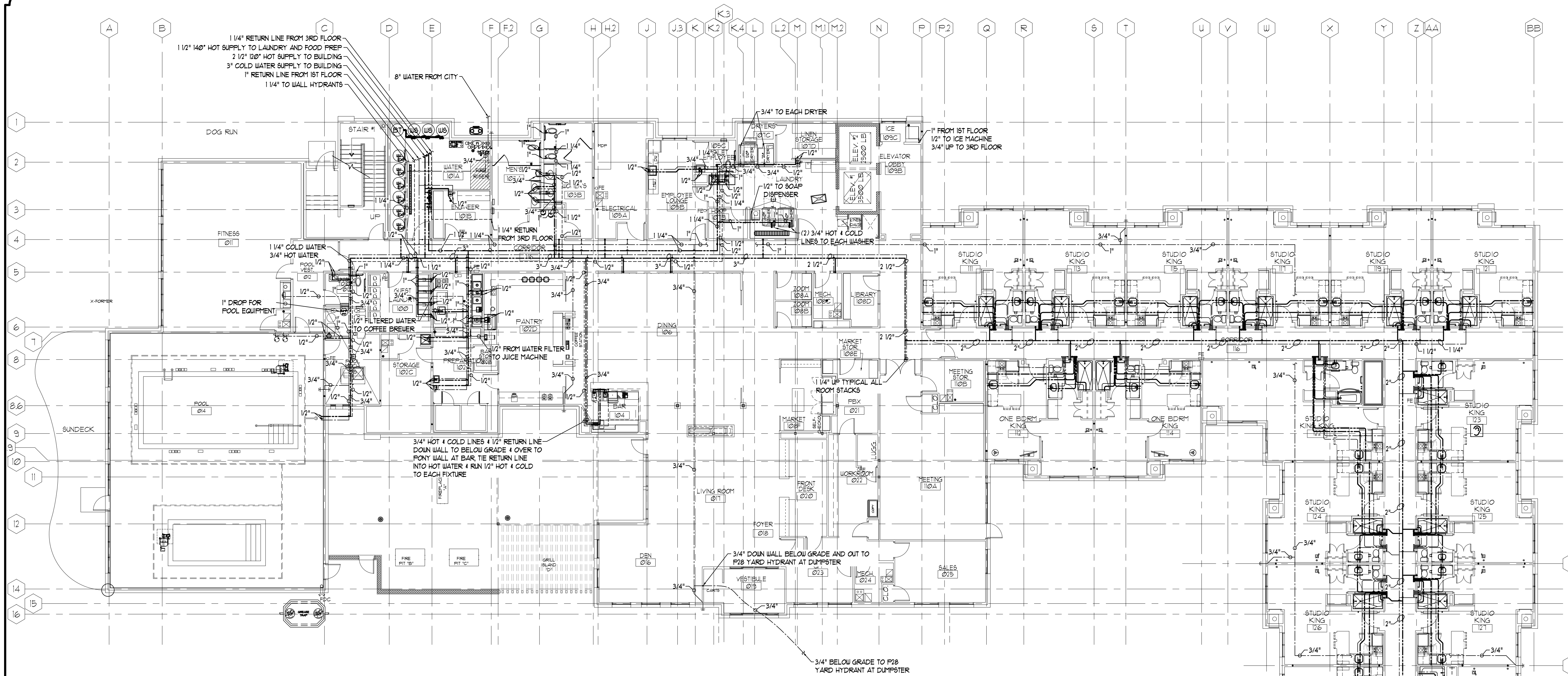


2 ELEVATOR PIT DETAIL  
 SCALE: AFP 1/2" = 1'-0"

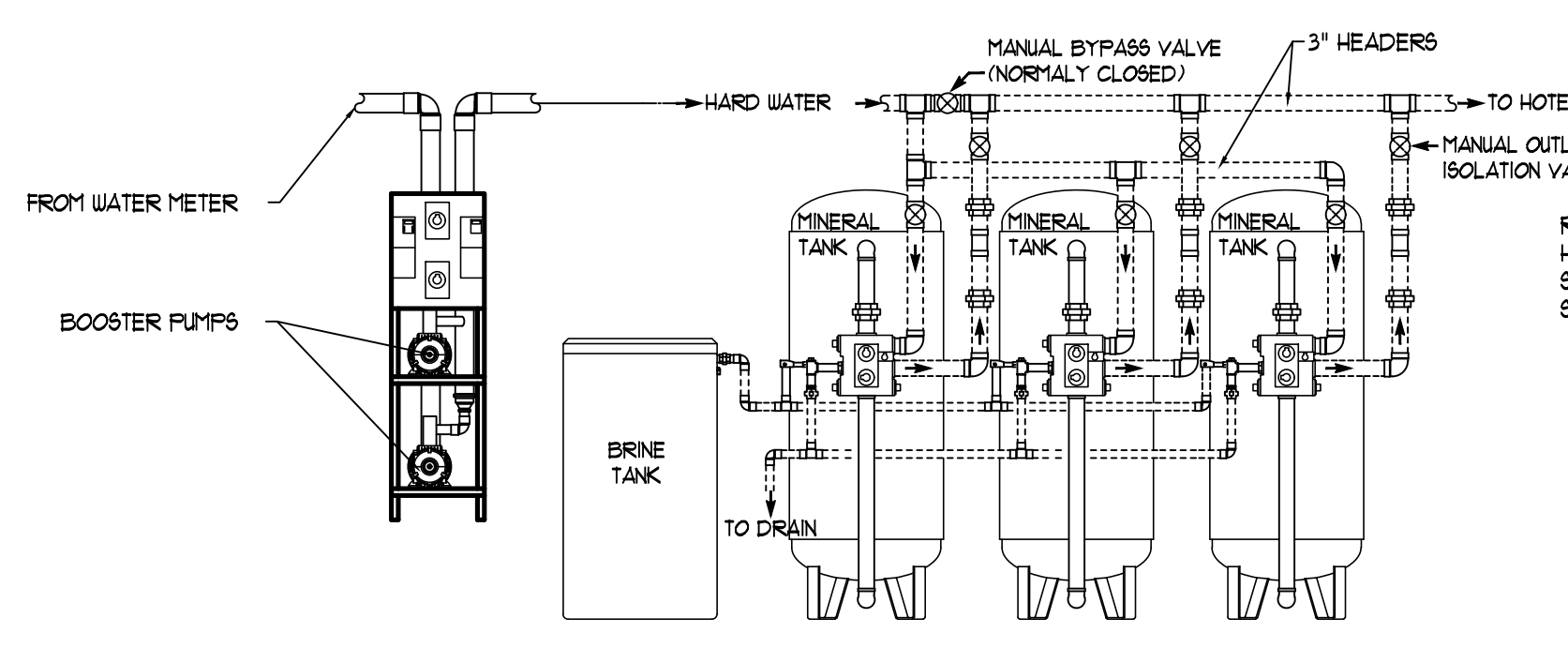


3 ELEVATION DETAIL IN METER ROOM  
 SCALE: N.T.S.

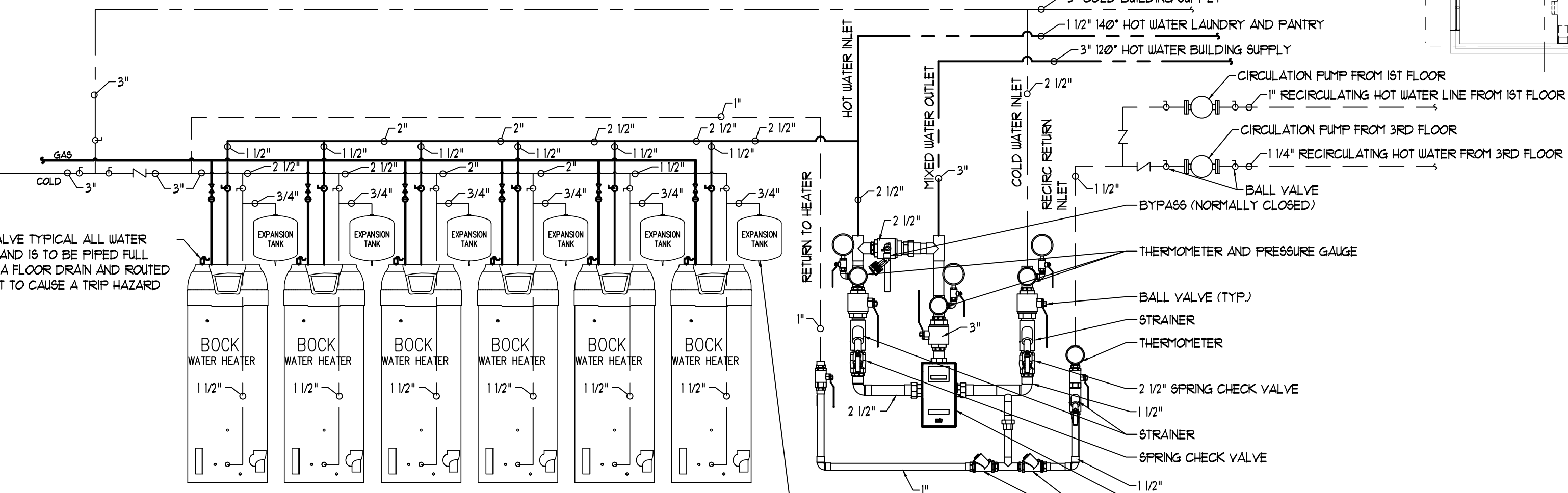




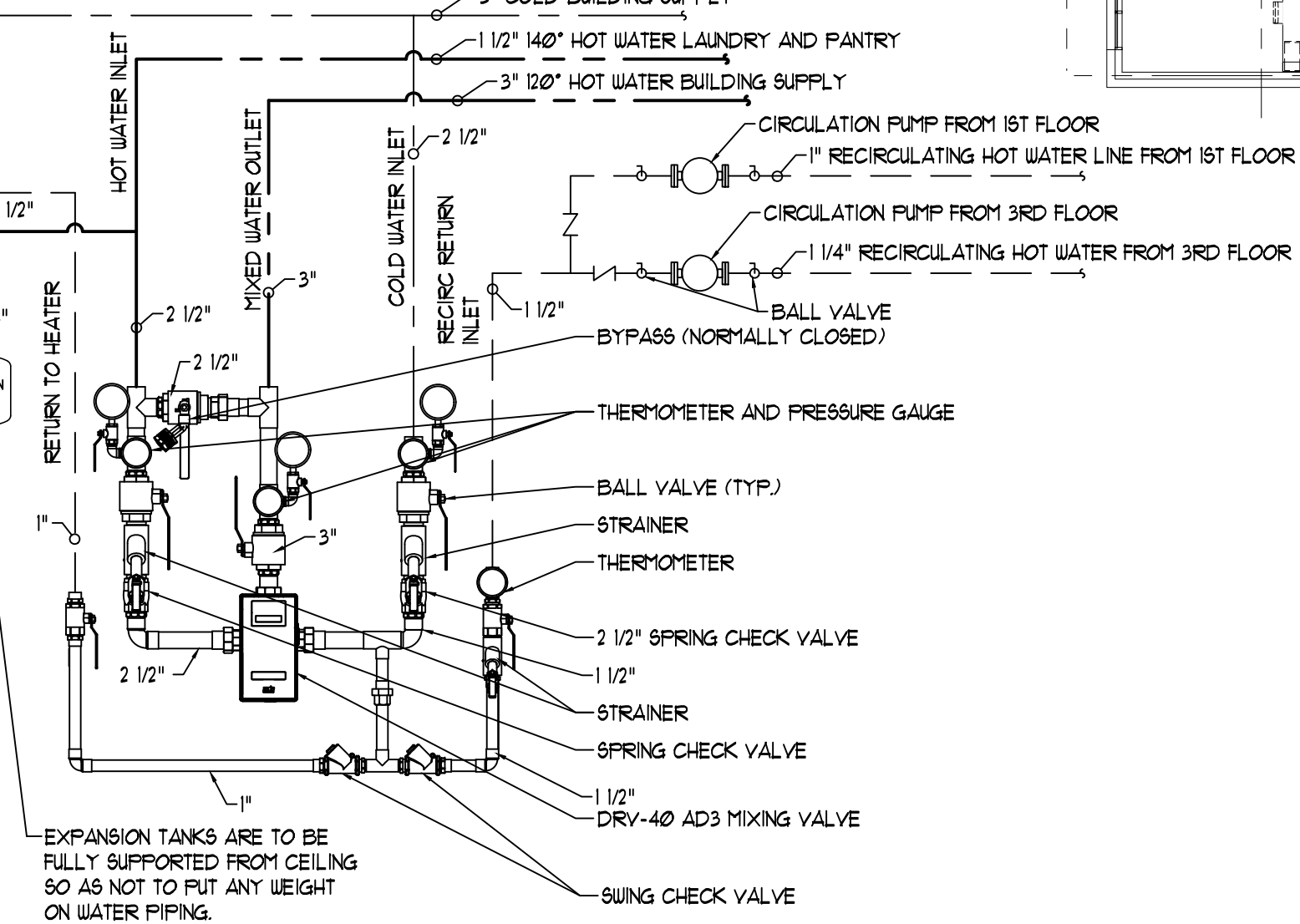
**1 FIRST FLOOR WATER PLAN**  
SCALE: 3/32" = 1'-0"



**2 WATER SOFTENER DETAIL**  
NOT TO SCALE



**3 WATER HEATER DETAIL**  
SCALE: NOT TO SCALE



**4 THERMOSTATIC MIXING VALVE DETAIL**  
SCALE: NOT TO SCALE

NOTE:  
DETAILS SHOWN HERE ARE TYPICAL ONLY.  
EXACT FINAL DETAILS AND LAYOUT SHALL BE  
AS REQUIRED TO SUIT THE FACILITY LAYOUT  
AND THE REQUIREMENTS OF THE VARIOUS  
REGULATORY AGENCIES.

**ARCHITECTURAL GROUP III**

201 S. Nappanee St. Elkhart Indiana 46514-1953 574/293-0008  
architecturalgroup3.com

The Architect is deemed the author, creator, and owner of the documents, whether in paper or electronic form, and retains all common law, statutory and other reserved rights, including copyright.

**JOB TITLE**  
  
RESIDENCE INN  
BY MARRIOTT  
  
A NEW 98 ROOM HOTEL  
PORTAGE, MI

**JOB NO.**  
24109

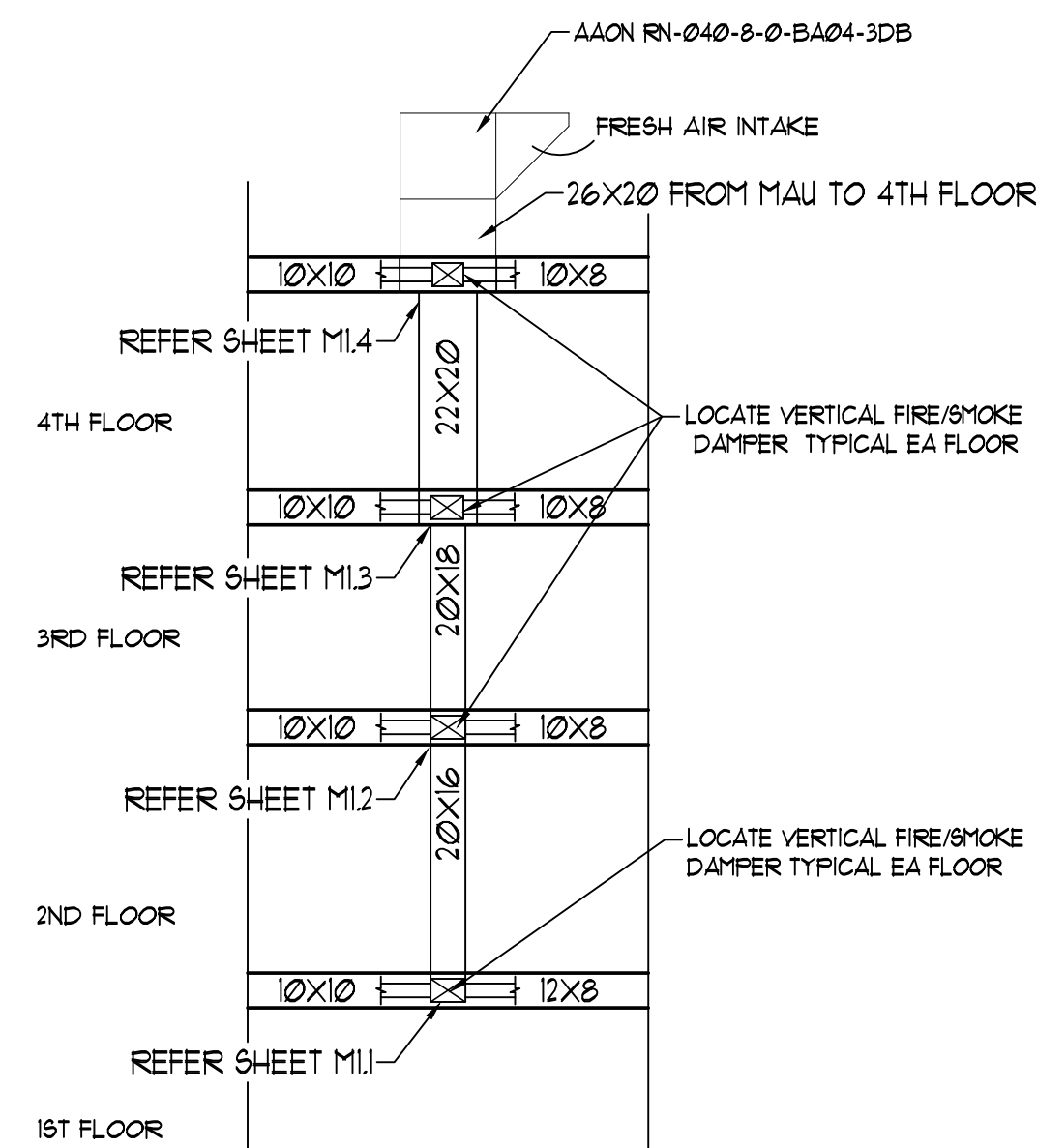
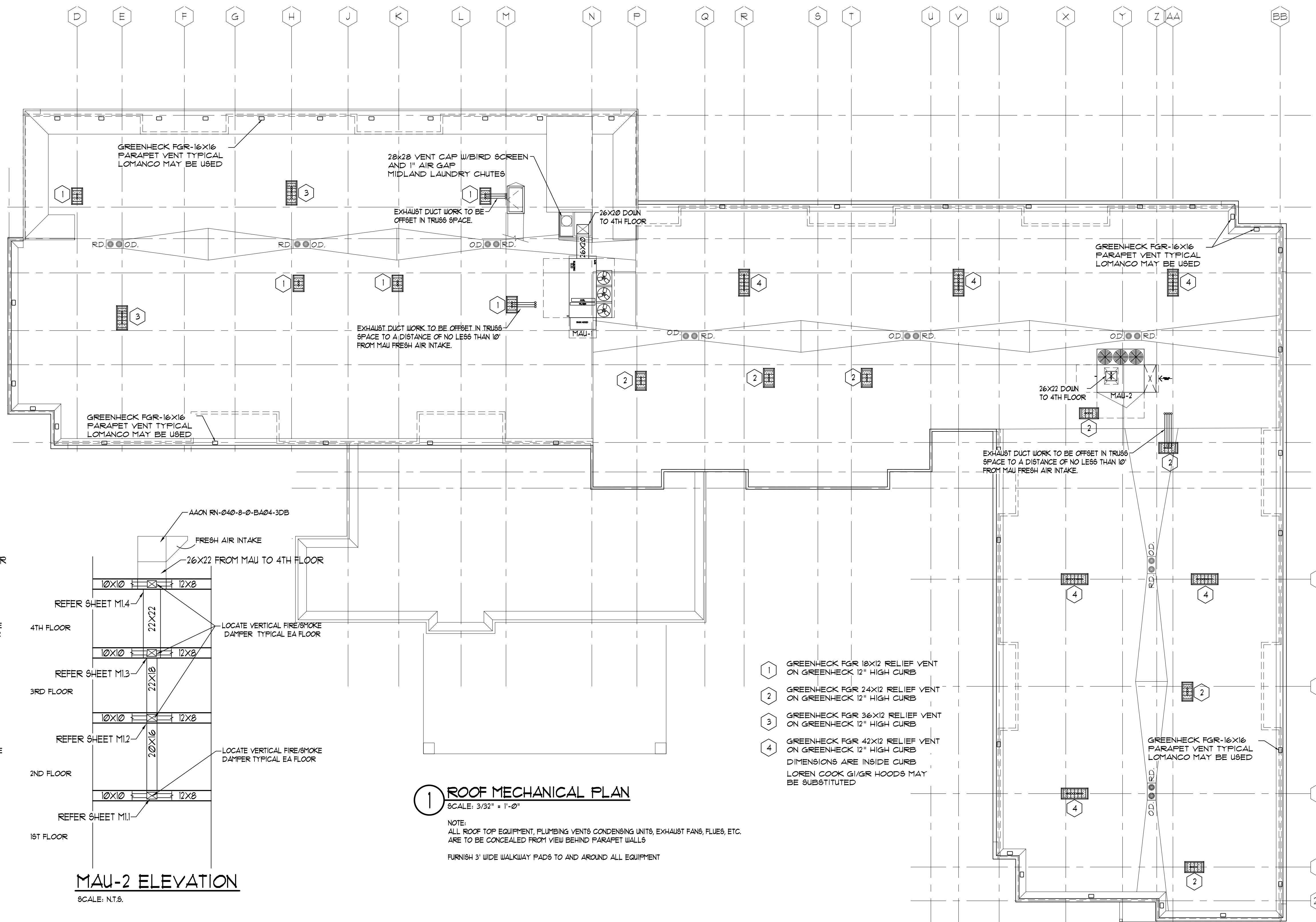
**DATE**  
05/29/24

**REVISIONS**

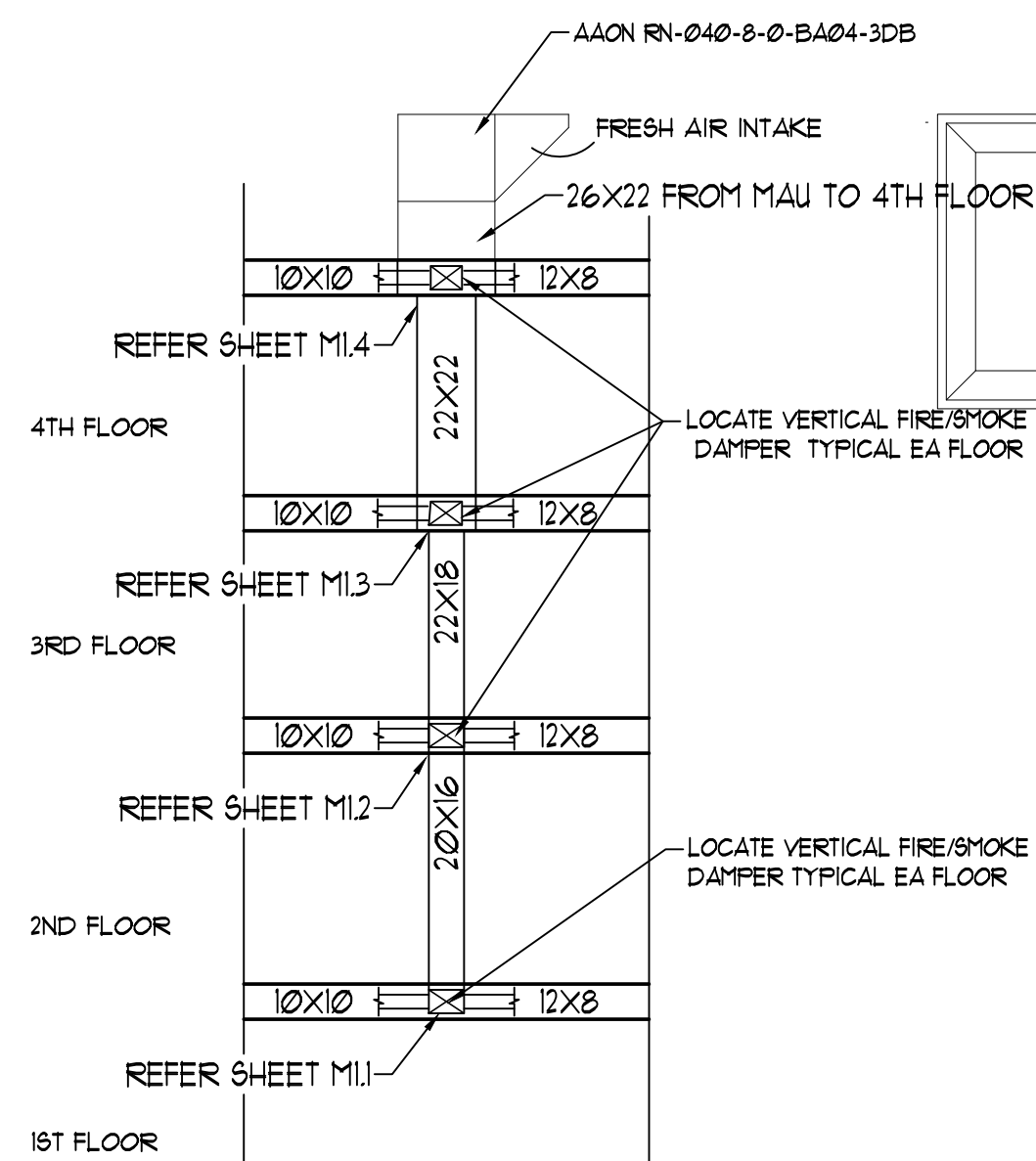
**PRELIMINARY NOT FOR CONSTRUCTION**

**SHEET NO.**  
**P3.1**  
FIRST FLOOR  
WATER PLAN





**MAU-1 ELEVATION**  
SCALE: N.T.S.



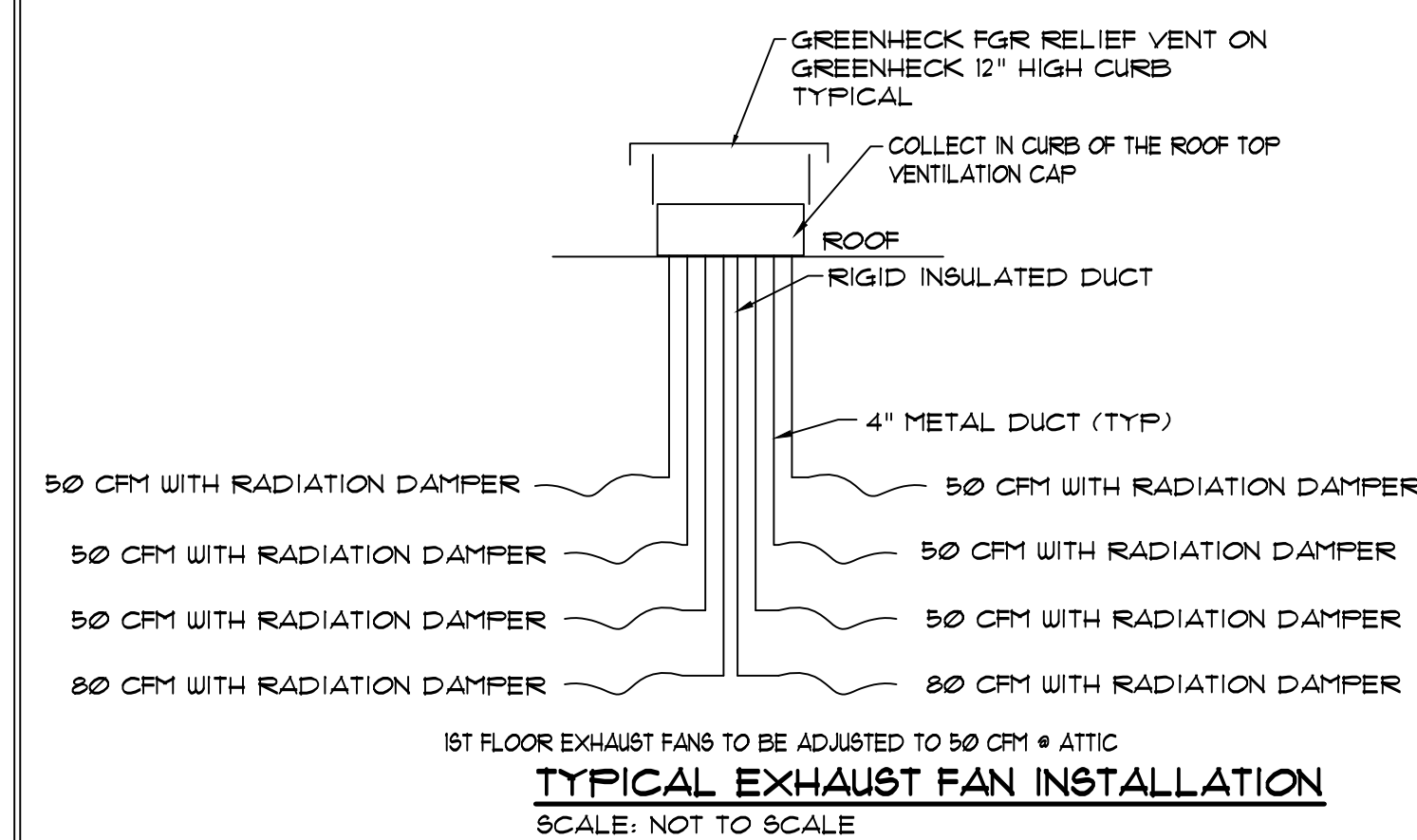
**MAU-2 ELEVATION**  
SCALE: N.T.S.

**1 ROOF MECHANICAL PLAN**  
SCALE: 3/32" = 1'-0"

NOTE:  
ALL ROOF TOP EQUIPMENT, PLUMBING VENTS, CONDENSING UNITS, EXHAUST FANS, FLUES, ETC. ARE TO BE CONCEALED FROM VIEW BEHIND PARAPET WALLS.  
FURNISH 3' WIDE WALKWAY PADS TO AND AROUND ALL EQUIPMENT

- 1 GREENHECK FGR 18X12 RELIEF VENT ON GREENHECK 12" HIGH CURB
- 2 GREENHECK FGR 24X12 RELIEF VENT ON GREENHECK 12" HIGH CURB
- 3 GREENHECK FGR 36X12 RELIEF VENT ON GREENHECK 12" HIGH CURB
- 4 GREENHECK FGR 42X12 RELIEF VENT ON GREENHECK 12" HIGH CURB  
DIMENSIONS ARE INSIDE CURB  
LOREN COOK GI/GR HOODS MAY BE SUBSTITUTED

**NOTES**  
COLLECT EXHAUST DUCTS FROM ALL GUEST ROOMS ON 1ST, 2ND, 3RD & 4TH FLOORS.  
EXTERIOR EXHAUST SHALL HAVE INSECT SCREENING AND WEATHER PROOF VANES.



**TYPICAL EXHAUST FAN INSTALLATION**  
SCALE: NOT TO SCALE

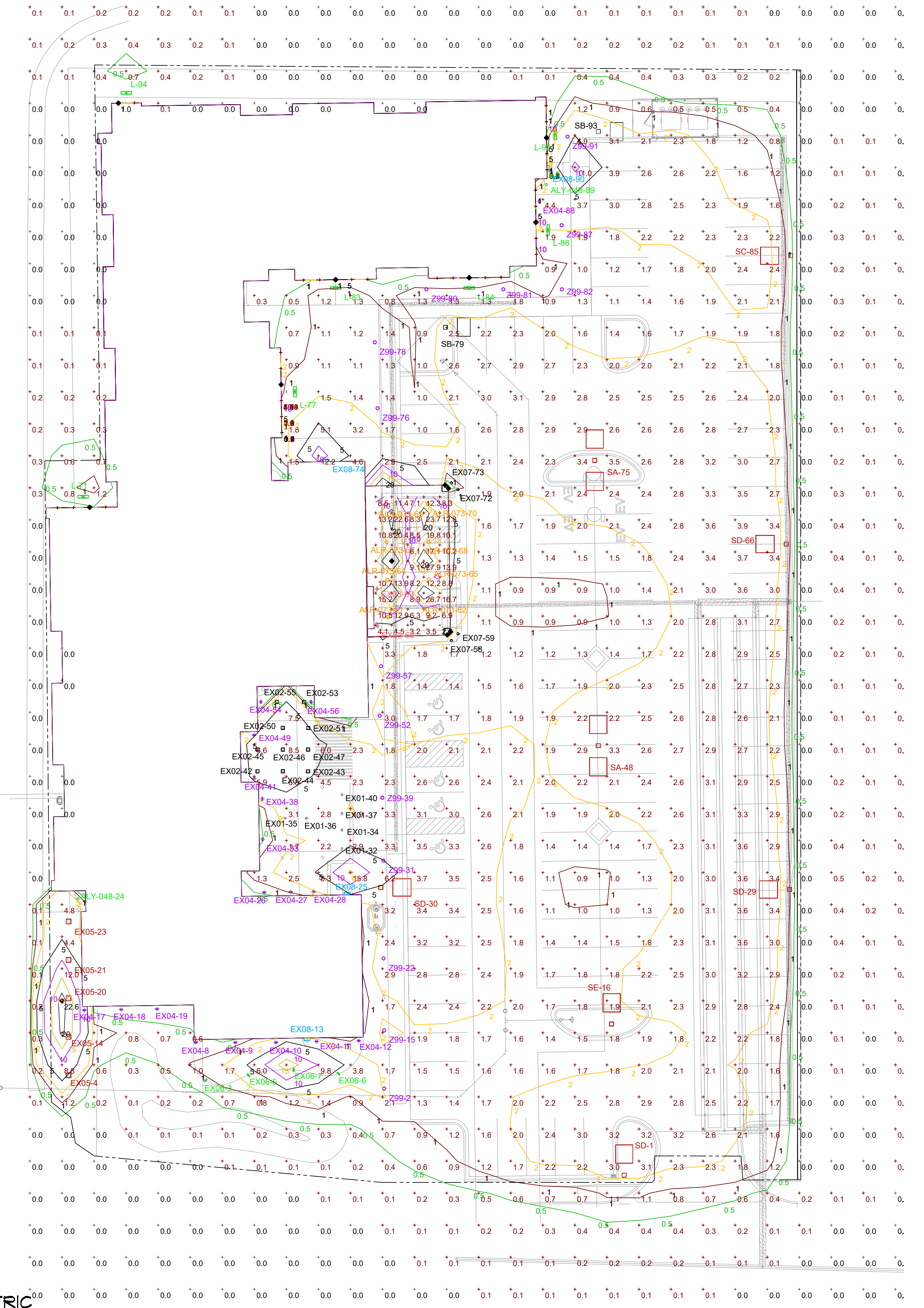
Tag	Supply CFM	Outside CFM	ESP (in wg)	Total Cap (MBH)	Sen Cap (MBH)	OADB	OAWB	Unit LADB	Unit LAWB	%RH	SA Fan HP	Heat Type	Heat EADB	Heat LADB	Heat Input (MBH)	Heat Output (MBH)	Voltage	Unit FLA	MCA	MOP	Op Weight (lbs)	Model String
MAU-1	4500	4500	1.5	334.9	150.3	85.4	76.1	75	61.3	46	3	Nat. Gas	1.5	93.1	540.0	432.0	208/3/60	126	137	175	3378	RNA-030-C-A-8
MAU-2	4900	4900	1.5	344.5	155.4	85.4	76.1	75	62.1	48.8	5	Nat. Gas	1.5	85.7	540.0	432.0	208/3/60	130	142	175	3369	RNA-030-C-A-8

Remarks:  
 (1) Per Marriott Standards, only acceptable substitutions are Trane and Greenheck.  
 (2) Summer Design Conditions based on ASHRAE 4% Evaporation Column  
 (3) Units to have modulating hot gas re-heat for dehumidification (on/off not acceptable) and deliver 75 F @ 50% RH air at design conditions  
 (4) Units to have hot gas bypass on ALL circuits  
 (5) Units to have modulating gas heat furnaces with Stainless Steel HX carrying 25 year non-pro-rated warranty; 18:1 turndown  
 (6) Cabinet construction is 2" double wall with foam injected panels with R-13 insulation value  
 (7) 2500 Salt Spray Tested exterior paint  
 (8) Outside air metal mesh pre-filter; 2" pleated filters - MERV 8  
 (9) Factory installed electrical disconnect for single point wiring  
 (10) ECM Condenser fan motors for condenser head pressure control (VFD Condenser Fans acceptable)  
 (11) Units to have condenser coil hail guards  
 (12) Direct Drive Plenum Supply Fan with unit mounted VFD (belt driven fans not acceptable)  
 (13) Phase and brownout protection monitor  
 (14) Fully welded insulated plenum curb with factory installed vibration isolation rails (final curb height TBD at time of order)  
 (15) Units shall include factory start-up and two (2) year parts and labor warranty for the entire unit, including refrigerant. Compressor warranty will extend an additional three (3) years - parts only.  
 (16) Call Tom Whiteley with Hobbs & Associates - 443-534-7716 or email twhiteley@hobbsassociates.com



Schedule									
Symbol	Label	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power
	ALR-073	8	COOPER LIGHTING SOLUTIONS - HALO (FORMERLY EATON)	HL618TAT - HLM6930 - HL6NFL - 455H	HALO ALLSLOPE 6" 30W, Semi-Specular Haze Reflector, White Metal Trim Ring using 25 Degree Optic at a 6-12 Pitch	1	2105	1	27.6
	ALY-048	2	COOPER LIGHTING SOLUTIONS - BRAND (FORMERLY EATON)	LD6B10D010 EU6B10208040 6LBMB1	PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT MEDIUM DISTRIBUTION WITH SPECULAR BLACK TRIM WATTAGE D010TR-10.05 W DE010-10.58 W DL5T-10.2 W DMX-10.6 W DL2-11.8 W DL3-11.1 W DLE-11.39 W	1	479	1	9.9
	EX01	6	Visual Comfort & Co.	700OSIKN2730x120	Ikon Step	1	204	1	12.3
	EX02	10	DALS LIGHTING	DLS969787	4" SQ DOWNLIGHT WIDESPREAD LIGHT BEAM	1	912	1	11.2259
	EX03	2	GENERATION BRANDS	700OWASP93026DHUNV S	LED WALL SCONCE	1	1034	1	37.8
	EX04	18	GENERATION BRANDS	700OWASPW93015DZUN VS	LED WALL SCONCE	1	629	1	21.9
	EX05	5	KUZCO LIGHTING	EB2936-BK	BOLLARD	1	1376	1	22.5
	EX06	4	Generation Brands	700OBSTR42SC1UNV830 C	LED BOLLARD	1	1254	1	19.4
	EX07	4	Hydrel	IGF6 P2 80CRI 30K MVOLT 30DEG ISS	IGF6 P2 80CRI 3000K 120-277V 30DEG No Tilt Internal Source Shield	1	1393	1	16.67
	EX08	4	Lithonia Lighting	ARC1 LED P3 30K	ARC1 LED WITH P3 - PERFORMANCE PACKAGE, 3000K	1	2858	1	24.5247
	L	7	Lithonia Lighting	DSXF2 LED P3 30K 70CRI NSP BV	DSX Floodlight Luminaire Size 2 P3 Lumen Package 3000K CCT 70CRI Type NSP Distribution with Bottom visor	1	11391	1	99.795
	SA	2	Lithonia Lighting	DSX1 LED P1 30K 70CRI T2M HS	D-Series Size 1 Area Luminaire P1 Performance Package 3000K CCT 70 CRI Type 2 Medium HouseSide Shield	1	6250	1	101.803
	SB	2	Lithonia Lighting	DSX0 LED P1 30K 80CRI LCCO	D-Series Size 0 Area Luminaire P1 Performance Package 3000K CCT 80 CRI Left Corner Cutoff Extreme Backlight Control	1	3063	1	33.21
	SC	1	Lithonia Lighting	DSX1 LED P1 30K 70CRI TFTM HS	D-Series Size 1 Area Luminaire P1 Performance Package 3000K CCT 70 CRI Forward Throw HouseSide Shield	1	6245	1	50.9015
	SD	4	Lithonia Lighting	DSX1 LED P3 30K 70CRI T2M HS	D-Series Size 1 Area Luminaire P3 Performance Package 3000K CCT 70 CRI Type 2 Medium HouseSide Shield	1	11327	1	102.1727
	SE	1	Lithonia Lighting	DSX1 LED P1 30K 70CRI T2M HS	D-Series Size 1 Area Luminaire P1 Performance Package 3000K CCT 70 CRI Type 2 Medium HouseSide Shield	1	6250	1	50.9015
	Z99	14	PHILIPS-HADCO LIGHTING	RF6AK512LE	RF6 BOLLARD	1	346	1	12.7

Luminaire Locations		
NO	Label	MH
2	Z99	3.00
3	EX06	1.80
4	EX05	3.00
5	EX06	1.80
6	EX06	1.80
7	EX06	1.80
8	EX04	7.00
9	EX04	7.00
10	EX04	7.00
11	EX04	7.00
12	EX04	7.00
13	EX08	7.50
14	EX05	3.00
15	Z99	3.00
16	SE	20.00
17	EX04	7.00
18	EX04	7.00
19	EX04	7.00
20	EX05	3.00
21	EX05	3.00
22	Z99	3.00
23	EX05	3.00
24	ALY-048	9.50
25	EX08	7.50
26	EX04	7.00
27	EX04	7.00
28	EX04	7.00
29	SD	20.00
30	SD	20.00
31	Z99	3.00
32	EX01	1.20
33	EX04	7.00
34	EX01	1.20
35	EX01	1.20
36	EX01	1.20
37	EX01	1.20
38	EX04	7.00
39	Z99	3.00
40	EX01	1.20
41	EX04	7.00
42	EX02	16.00
43	EX02	16.00
44	EX02	16.00
45	EX02	16.00
46	EX02	16.00
47	EX02	16.00
48	SA	20.00
49	SA-1	20.00
50	EX02	16.00
51	EX02	16.00
52	Z99	3.00
53	EX02	16.00
54	EX04	7.00
55	EX02	16.00
56	EX04	7.00
57	Z99	3.00
58	EX07	0.00
59	EX07	0.00
60	EX03	5.00
61	ALR-073	13.50
62	ALR-073	13.50
63	EX03	5.00
64	ALR-073	13.50
65	ALR-073	13.50
66	SD	20.00
67	ALR-073	13.50
68	ALR-073	13.50
69	ALR-073	13.50
70	ALR-073	13.50
71	L	1.50
72	EX07	0.00
73	EX07	0.00
74	EX08	7.50
75	SA	20.00
76	Z99	3.00
77	L	1.50
78	Z99	3.00
79	SB	20.00
80	Z99	3.00
81	Z99	3.00
82	Z99	3.00
83	L	1.50
84	L	1.50
85	SC	20.00
86	L	1.50
87	Z99	3.00
88	EX04	5.00
89	ALY-048	9.50
90	EX08	7.50
91	Z99	3.00
92	L	1.50
93	SB	20.00
94	L	1.50
95	SD	20.00



1 SITE PLAN PHOTOMETRIC  
SCALE: 1" = 20'-0"

**ARCHITECTURAL GROUP III**  
201 S. Nappanee St. Elkhart Indiana 46514-1953 574/293-0008  
architecturalgroup3.com  
The Architect is deemed the author, creator, and owner of the documents, whether in paper or electronic form, and retains all common law, statutory and other reserved rights, including copyright.

JOB TITLE  
RESIDENCE INN  
BY MARRIOTT  
A NEW 98 ROOM HOTEL  
PORTAGE, MI

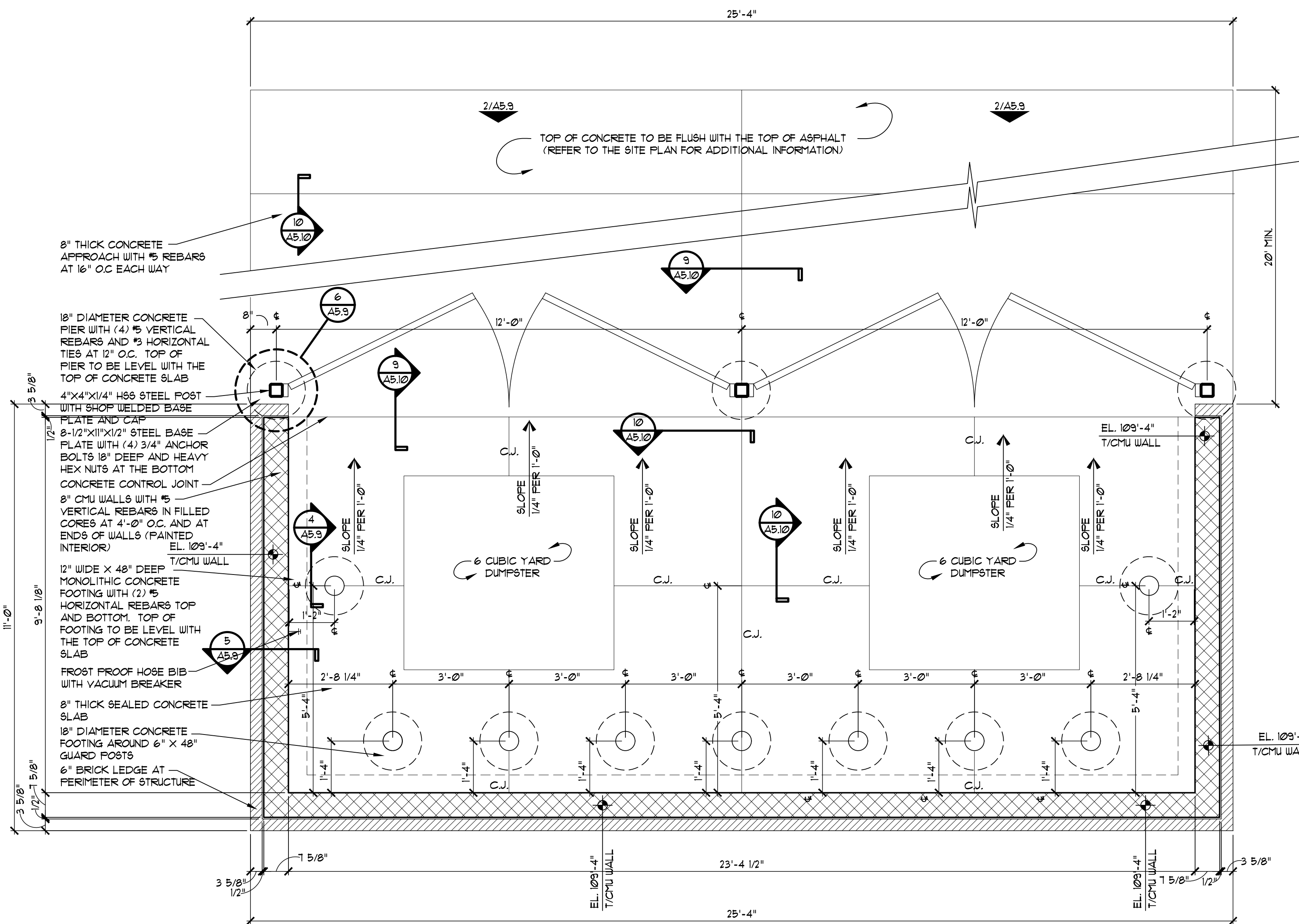
JOB NO.  
24109  
DATE  
05/29/24

REVISIONS

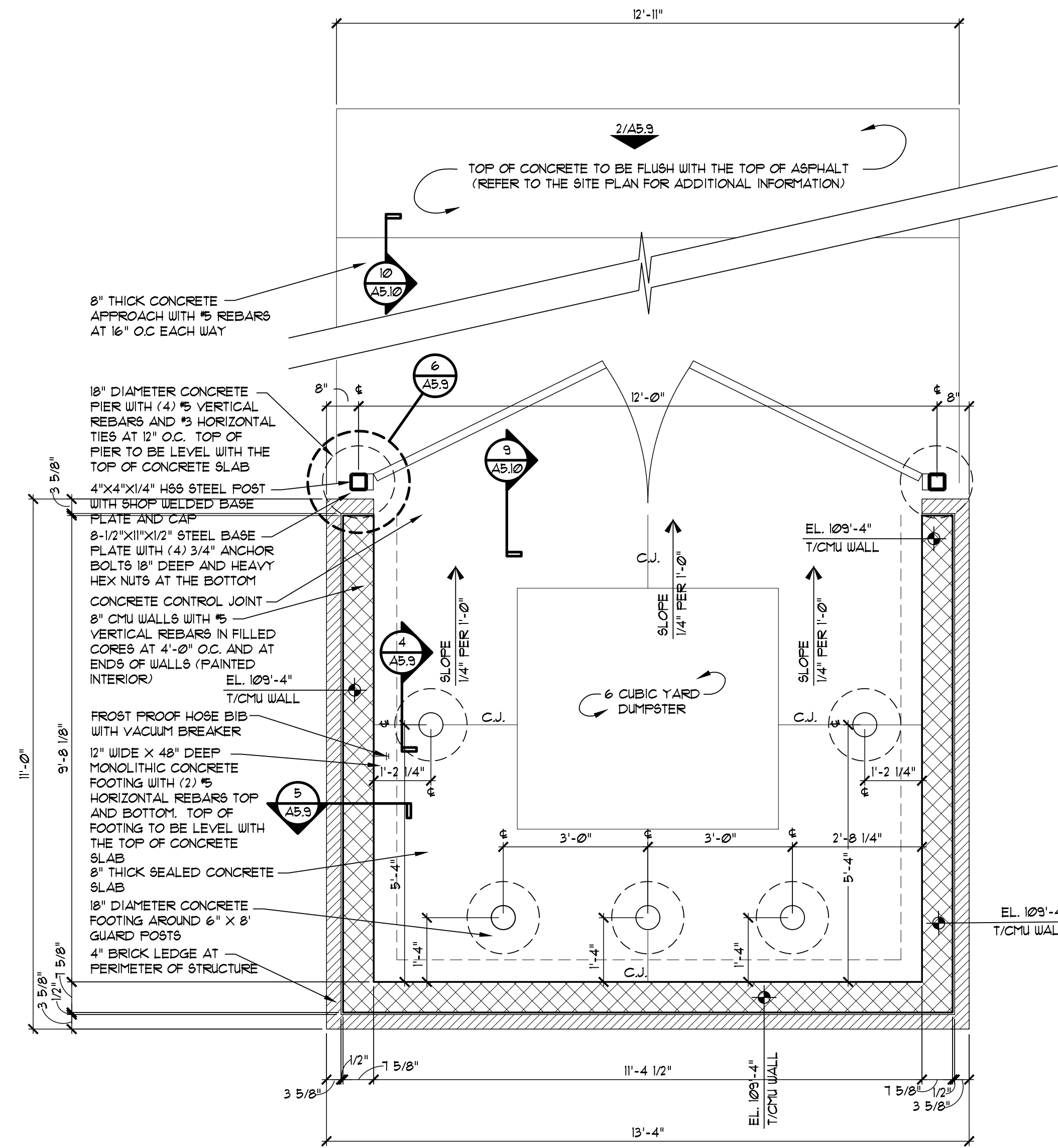
**PRELIMINARY NOT FOR CONSTRUCTION**

SHEET NO.  
**E1.0a**  
SITE PLAN  
PHOTOMETRICS

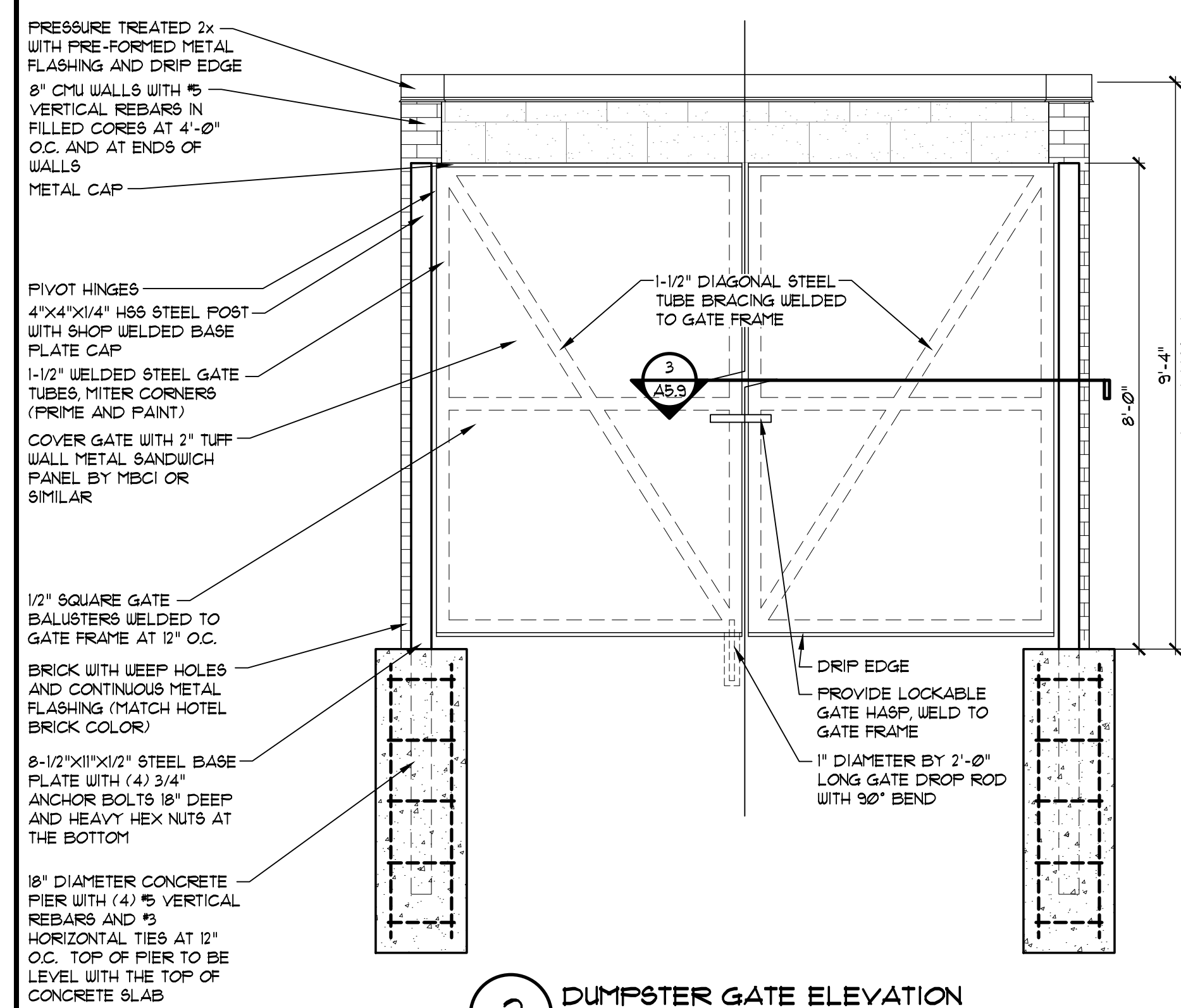




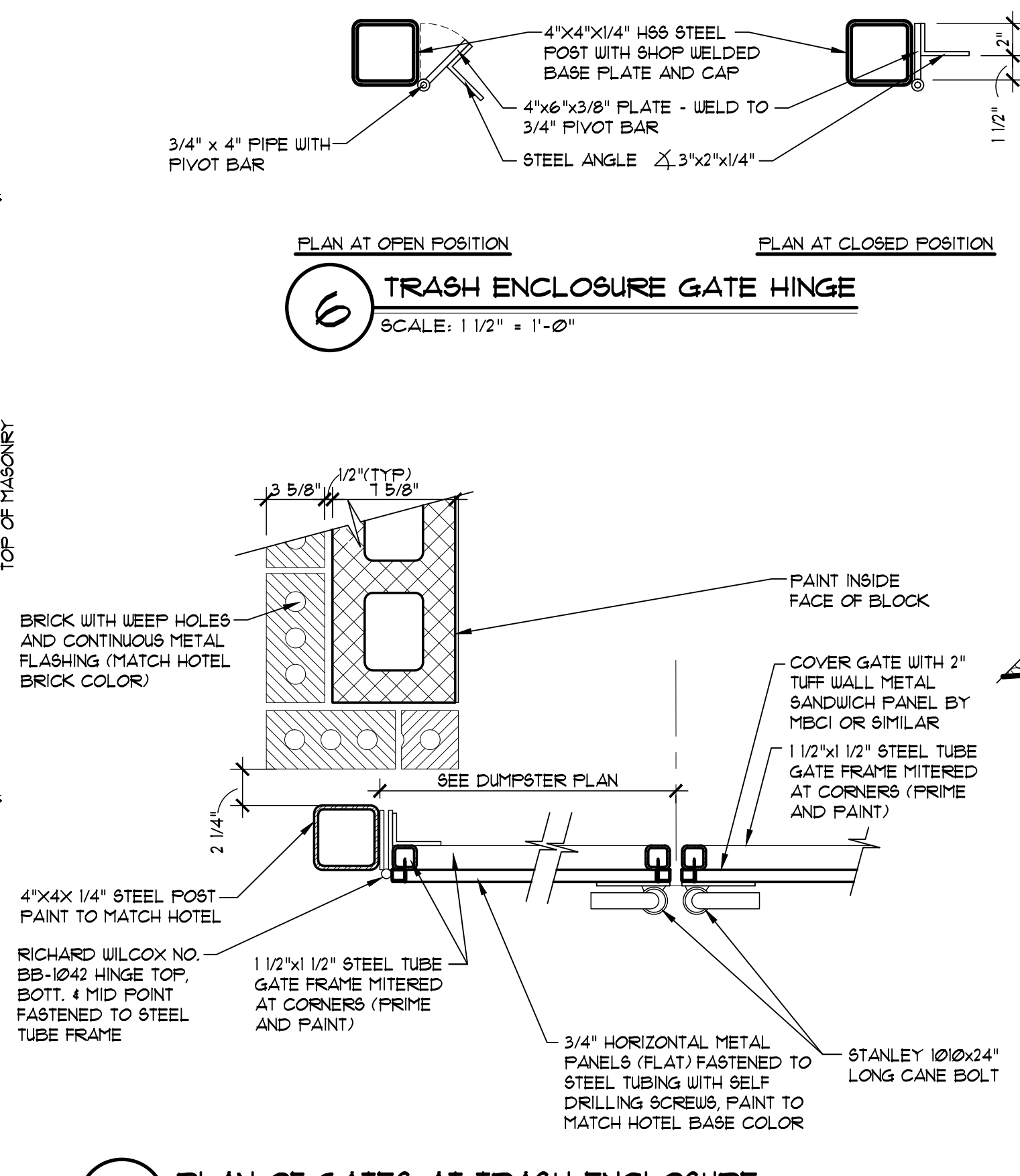
**1a DUMPSTER PLAN AND FOUNDATIONS**  
SCALE: 1/2" = 1'-0"



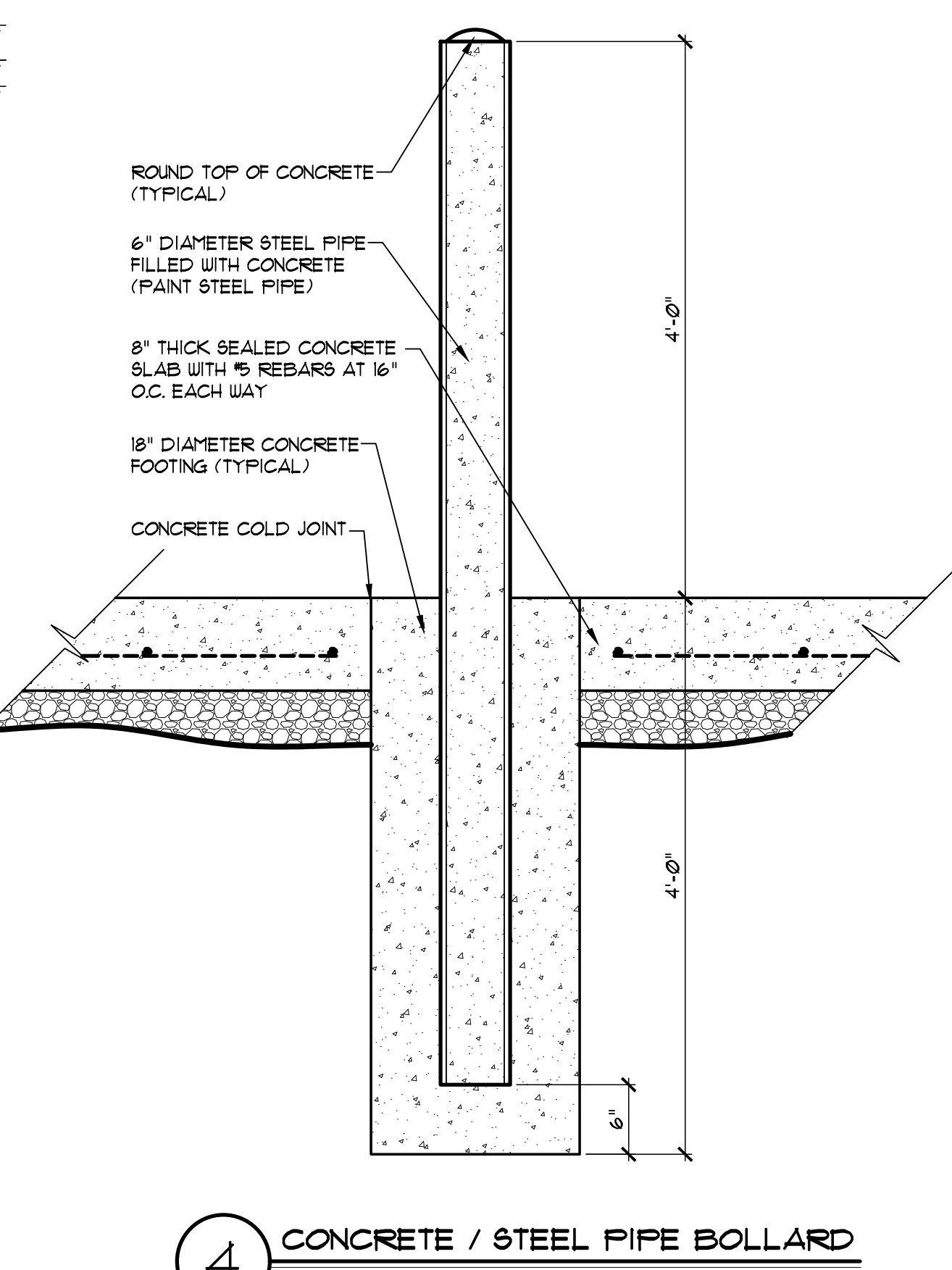
**1b DUMPSTER PLAN AND FOUNDATIONS**  
SCALE: 1/2" = 1'-0"



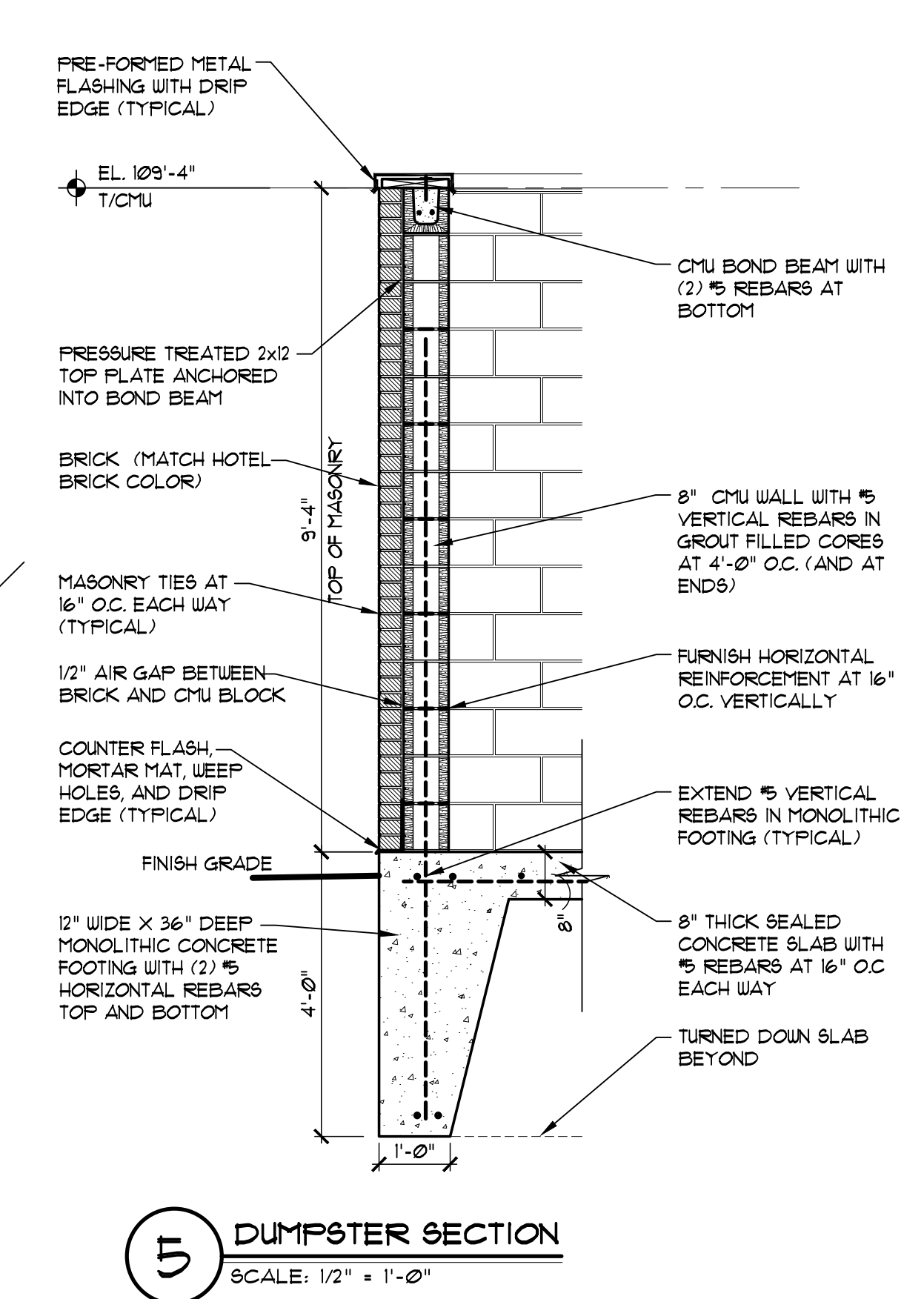
**2 DUMPSTER GATE ELEVATION**  
SCALE: 1/2" = 1'-0"



**3 PLAN OF GATES AT TRASH ENCLOSURE**  
SCALE: 1 1/2" = 1'-0"



**4 CONCRETE / STEEL PIPE BOLLARD**  
SCALE: 1" = 1'-0"



**5 DUMPSTER SECTION**  
SCALE: 1/2" = 1'-0"





Residence INN BY MARRIOTT

Residence INN BY MARRIOTT







