

- KEY NOTES:** XX
- E1 ELECTRIC - SECONDARY POWER FROM EXISTING TRANSFORMER. COORDINATE NEW SERVICE LINE CONDUIT AND CABLE SIZES WITH M.E.P. PLANS AND POWER UTILITY COMPANY.
  - E2 ELECTRIC - EXISTING TRANSFORMER. COORDINATE POWER DISTRIBUTION TO SITE WITH M.E.P., SITE ELECTRICAL PLAN AND POWER COMPANY.
  - E3 ELECTRIC - SITE LIGHTING POLE. REF. SITE LIGHTING PLAN. COORDINATE POWER DISTRIBUTION ON SITE WITH M.E.P. / SITE ELECTRICAL PLAN.
  - G1 GAS - GAS SERVICE LINE. COORDINATE SIZE & LOCATION WITH M.E.P. PLANS AND GAS COMPANY.
  - G2 GAS - GAS METER. COORD WITH M.E.P. PLANS & GAS COMPANY.
  - SS1 SANITARY - 6 INCH DIAMETER SDR 26 PVC LATERAL @ 2.08% MINIMUM. LATERAL INSTALLATION SHALL INCLUDE FULL DEPTH GRANULAR BACKFILL WHERE LOCATED UNDER PAVED AREAS AND SHALL HAVE TRACER WIRE INSTALLED FROM THE BUILDING CLEANOUT TO THE MAIN CONNECTION IN ACCORDANCE WITH PLAINFIELD SANITARY STANDARDS.
  - SS2 SANITARY - BUILDING CLEANOUT PER PLAINFIELD SANITARY STANDARDS. SEE PLAN FOR INVERTS. CLEANOUT SHALL BE LOCATED WITHIN 36 INCHES OF BUILDING FACE.
  - SS3 SANITARY - CLEANOUT PER PLAINFIELD SANITARY STANDARDS. SEE PLAN FOR INVERTS. CASTING TYPES AND COLLARS AS REQUIRED PER GRADE TYPE AND PER PLAINFIELD SANITARY STANDARDS.
  - SS4 SANITARY - LATERAL BENDS AS REQUIRED PER PLAINFIELD SANITARY STANDARDS. SEE PLANS FOR BEND ANGLE.
  - SS5 SANITARY - CONNECT LATERAL TO EXISTING SANITARY MAIN WITH MANUFACTURED WYE PER PLAINFIELD SANITARY STANDARDS. DETAIL DS-S02. CONTRACTOR SHALL COORDINATE LATERAL CONNECTION LOCATION AND INVERT WITH PLAINFIELD PRIOR TO CONSTRUCTION.
  - SS6 SANITARY - EXISTING SANITARY SEWER STRUCTURES, MAIN, AND LATERAL TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
  - 6XX STORM - PROPOSED STRUCTURE. REFERENCE STORM STRUCTURE TABLE.
  - RD1 ROOF DRAINS - BUILDING CONNECTION AND CLEANOUT. REFERENCE M.E.P. PLANS FOR EXACT SIZE AND LOCATION OF ROOF DRAIN DOWNSPOUT. CLEANOUT TO BE LOCATED APPROX. ## FEET FROM THE BUILDING. SEE ROOF DRAIN / DOWNSPOUT DETAILS FOR FURTHER INFORMATION.
  - ROOF DRAINS - BUILDING CONNECTION WITH DOWNSPOUT SHOW WITH BUILT IN CLEANOUT. APPROVED MANUFACTURER AND TYPE. NEENAH R-4929 WITH BRASS CLEANOUT (OR APPROVED OTHER). REFERENCE M.E.P. PLANS FOR EXACT SIZE AND LOCATION OF ROOF DRAIN DOWNSPOUTS. SEE ROOF DRAIN / DOWNSPOUT DETAILS FOR FURTHER INFORMATION.
  - RD2 ROOF DRAINS - 8 INCH DIAMETER HDPE N-12 ROOF DRAIN COLLECTOR PIPE AT 1.00% MINIMUM SLOPE. SEE PLANS FOR LENGTH. CONNECT TO DOWNSTREAM DRAINAGE STRUCTURE AS ILLUSTRATED.
  - RD3 ROOF DRAIN - CONNECTION TO STORM SEWER STRUCTURE (INVERT OF ROOF DRAIN CONNECTION SHALL BE 6 INCHES MINIMUM ABOVE INVERT OF STRUCTURE'S OUTLET PIPE).
  - RD4 ROOF DRAIN - ROOF DRAIN CLEANOUT ON ENDS OF COLLECTOR PIPE.
  - UD1 UNDERDRAIN - 10 LINEAR FEET OF 6 INCH DIAMETER PERFORATED HDPE UNDERDRAIN AT 1.00% MINIMUM SLOPE TOWARDS INLET. UNDERDRAINS TO CONNECT INTO STORM STRUCTURE AT LEAST 6 INCHES ABOVE THE OUTLET PIPE INVERT.
  - W1 WATER - PROPOSED 2 INCH TAP, CORP STOP, VALVE & BOX ON EXISTING 12" MAIN. COORDINATE TAP WITH PLAINFIELD. REF. DETAIL DS-W07. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF FIRE SERVICE LINE PRIOR TO CONSTRUCTION.
  - W2 WATER - PROPOSED 2 INCH DIAMETER TYPE 'K' COPPER PIPE FOR DOMESTIC WATER SERVICE LINE AND 1/2" INCH METER AND FIT PER PLAINFIELD STANDARD DETAIL DS-W03.
  - W3 WATER - PROPOSED 6 INCH TAPPING SLEEVE VALVE & BOX ON EXISTING 12 INCH WATER MAIN. COORDINATE TAP WITH PLAINFIELD (WATER COMPANY).
  - W4 WATER - 6 INCH DIAMETER WATER SERVICE LINE. PVC C900 OR APPROVED EQUAL.
  - W5 WATER - 4 INCH DIAMETER PRIVATE FIRE CONNECTION LINE. PVC C900 OR APPROVED EQUAL. WITH FIRE DEPARTMENT CONNECTION APPURTENANCE. COORDINATE FINAL LOCATION WITH LOCAL FIRE DEPARTMENT.
  - WATER - FIRE DEPARTMENT CONNECTION WITH 4 INCH FIRE WATERLINE PER LOCAL FIRE DEPARTMENT REQUIREMENTS AND PLAINFIELD WATER STANDARDS (WATER UTILITY COMPANY).
  - W6 WATER - POST INDICATOR VALVE. VERIFY TYPE AND FINAL LOCATION WITH GOVERNING WATER COMPANY AND LOCAL FIRE DEPARTMENT.
  - W7 WATER - FIRE METER VAULT PER PLAINFIELD WATER DETAIL DS-W06.
  - W8 WATER - EXISTING WATER MAIN TO REMAIN. FIELD LOCATE EXACT LOCATION PRIOR TO CONSTRUCTION. PROTECT THROUGHOUT CONSTRUCTION.
  - W9 WATER - EXISTING FIRE HYDRANT TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
  - UX UTILITY CROSSING. APPROXIMATE LOCATION SHOWN. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL EXISTING UTILITIES WITHIN AREA OF WORK PRIOR TO CONSTRUCTION. ENGINEER SHALL BE NOTIFIED OF ANY POTENTIAL CONFLICTS FOUND.
  - UX CONCRETE CRADLE REQUIRED FOR UTILITY CROSSING.
- NOTES:**
- UTILITY CROSSINGS UNDER EXISTING PAVEMENT SHALL BE DIRECTIONAL BORED OR JACK & BORED. OPEN CUTS SHALL BE AVOIDED.
  - ALL NEW STORM STRUCTURES WITH OPEN GRATES WITHIN PAVED AREAS SHALL HAVE CONCRETE COLLARS. REFERENCE DETAILS.
  - ALL PROPOSED END SECTIONS SHALL HAVE TOE ANCHORS AND ANIMAL GUARDS INSTALLED.
  - CONTRACTOR TO VERIFY ROOF DRAIN / DOWNSPOUT LOCATIONS PER ARCH. / M.E.P. PLANS AND ADJUST ROOF DRAIN CONNECTIONS AND HEADER / COLLECTOR PIPES ACCORDINGLY. ALL ROOF DRAINS TO BE CAPTURED AND DRAIN INTO THE PROPOSED STORM SEWER SYSTEM AND ROUTED THROUGH WATER QUALITY UNIT / DETENTION FACILITY.
  - SANITARY LATERALS SHALL MAINTAIN 4 FEET OF COVER.
  - WHERE SANITARY SEWER / LATERAL RUNS UNDER OR WITHIN 5 FEET OF HARDSCAPES (PAVEMENT SURFACES), SEWER PIPING MUST BE BACKFILLED WITH GRANULAR MATERIAL. SEE CORRESPONDING SANITARY COMPANY STANDARDS, SPECIFICATIONS AND DETAILS.
  - TEN (10) GAUGE TRACER WIRE PLACED ON TOP OF SEWER PIPING OR LATERALS FROM THE BUILDING CLEANOUT TO THE DOWNSTREAM CONNECTION POINT REQUIRED FOR ENTIRE LENGTH OF SEWER PIPING / LATERALS. SEE DETAILS.
  - SEE SANITARY, STORM AND UTILITY NOTES FOR ADDITIONAL INFORMATION.
  - SEE STORM AND SANITARY SEWER STRUCTURE AND PIPE TABLES FOR SEWER STRUCTURE INFORMATION, INVERTS, RIM / CASTING ELEVATIONS, AND PIPE MATERIALS, SIZES AND LENGTHS.
  - ALL WATERLINES SHALL MAINTAIN A MINIMUM OF 54 INCHES OF COVER.
  - CONTRACTOR TO COORDINATE ALL WATERLINE CONNECTIONS, PIPE TYPE AND DIAMETERS, APPURTENANCES, ETC. WITH M.E.P., ARCHITECTURAL PLANS, GOVERNING WATER UTILITY COMPANY, AND LOCAL FIRE DEPARTMENT (REGARDING FIRE WATERLINES AND APPURTENANCES).
  - SANITARY SEWERS AND / OR LATERALS. ALL WATERLINES, AND STORM SEWERS (INCLUDING UNDERDRAINS) SHALL MAINTAIN 10 FEET MINIMUM HORIZONTAL SEPARATION AND 18 INCHES MINIMUM VERTICAL SEPARATION BETWEEN EACH OTHER AS MEASURED FROM EXTERIOR PIPE WALLS.

**FRITZ**  
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PRELIMINARY  
NOT FOR  
CONSTRUCTION

REVISIONS AND ISSUES	DATE	BY

GENERAL NOTES / LEGEND:

**"IT'S THE  
LAW"  
811**

Know what's below.  
Call before you dig.  
2 WORKING DAYS BEFORE YOU DIG.

PROJECT:

UHG MEDICAL  
OFFICE

PROJECT LOCATION:  
N.E. CNR. STANLEY RD & QUAKER BLVD.  
PLAINFIELD, INDIANA 46168  
HENDRICKS COUNTY  
SECTION, TOWNSHIP, RANGE:  
SE 1/4 S36, T15N, R1E

CLIENT:

**LITTLE DIVERSIFIED ARCHITECTURAL  
CONSULTING INC.**

1300 DOVE ST. STE. 100  
NEWPORT BEACH, CA 92660

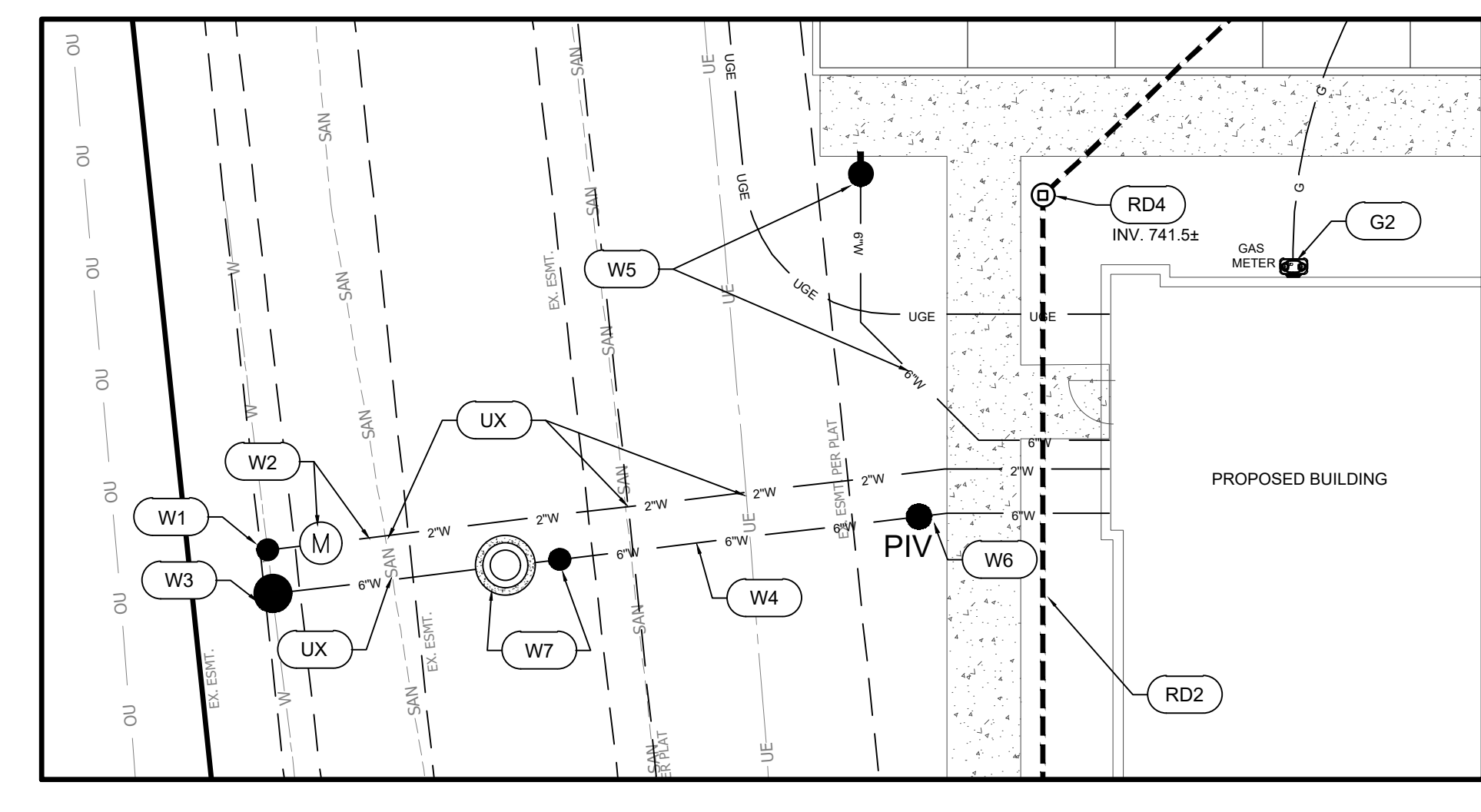
PLAN DATE:  
11/18/2024

DESIGN: AF CHECK: AF DRAWN: KG

PROJECT NO.  
2410001

SHEET NAME  
**UTILITY & DRAINAGE  
PLAN**

SHEET NO.  
**C401**



STORM STRUCTURE DATA TABLE					
STRUCTURE I.D.	RIM ELEVATION	NEENAH CASTING DESIGNATION	INFLOW INFLW, (DIRECTION), [UP STR.]	OUTFLOW INV., (DIRECTION), [DOWN STR.]	DESCRIPTION & NOTES
601	738.74	???	INV:736.80 15" RCP (W)[602]		15" CONC. END SECTION, WITH ANIMAL GUARD REF. PLAINFIELD DET SHEET 08
602	742.34	R-3010	INV:738.20 12" RCP (W)[603]	INV:738.00 15" RCP (E)[601]	TYPE 'A' CATCH BASIN, REF PLAINFIELD DET SHEET 09
603	742.50	R-3472	INV:739.75 8" HDPE (SW)[ ]	INV:739.20 12" RCP (E)[602]	TYPE 'A' CATCH BASIN, REF PLAINFIELD DET SHEET 09
611	738.37	???	INV:736.70 12" RCP (W)[612]		12" CONC. END SECTION, WITH ANIMAL GUARD REF. PLAINFIELD DET SHEET 08
612	742.70	R-3010		INV:738.70 12" RCP (E)[611]	TYPE 'A' CATCH BASIN, REF PLAINFIELD DET SHEET 09

STORM SEWER PIPE DATA TABLE						
UPSTREAM STRUCTURE I.D.	DOWNSTREAM STRUCTURE I.D.	LENGTH OF PIPE	PIPE SIZE / TYPE	SLOPE %	UPSTREAM PIPE INV.	DOWNSTREAM PIPE INV.
612	611	58 LF	12" RCP	3.47%	738.70	736.70
603	602	158 LF	12" RCP	0.63%	739.20	738.20
602	601	53 LF	15" RCP	2.27%	738.00	736.80

DRAWN BY: [Name] CHECKED BY: [Name] DATE: 11/18/2024  
 PROJECT: UHG MEDICAL OFFICE  
 SHEET: C401 OF C401  
 SCALE: 1"=30'  
 ALL DIMENSIONS IN FEET AND INCHES UNLESS OTHERWISE NOTED.  
 THE ENGINEER'S SEAL AND SIGNATURE ARE REQUIRED FOR ALL SHEETS.  
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