
**TOWN OF CLARENCE VETERANS MEMORIAL at
10405 MAIN STREET, (T)CLARENCE, ERIE COUNTY, NY**

SITWORK BID PACKAGE: MARCH 4, 2020

DRAWING LIST

SITWORK:

C101: SITE LAYOUT AND LANDSCAPE PLAN
C102: SITE GRADING, DRAINAGE & UTILITIES PLAN
C103: SITWORK DETAILS
C104: MONUMENT AND FOUNTAIN FOUNDATIONS
C105: GENERAL NOTES & TYPICAL DETAILS – FOUNDATIONS

E1: ELECTRICAL SCHEDULES
E2: ELECTRICAL DETAILS
E3: ELECTRICAL SITWORK PLAN
E4: ELECTRICAL SPECIFICATIONS

WATER FEATURE SYSTEM::
PUMP/FILTER SYSTEM LAYOUT AND SPECIFICATIONS (TO FOLLOW)



CLIENT:
TOWN OF CLARENCE
6221 GOODRICH RD
CLARENCE CENTER, NY
TEL.: 716-741-8952

CIVIL ENGINEER:
TREDO ENGINEERS
755 SENECA STREET, SUITE 202
BUFFALO, NY 14210
TEL.: 716-876-7147

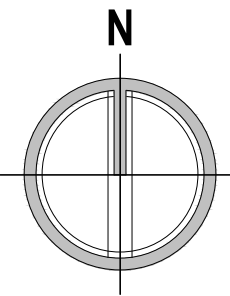
ELECTRICAL ENGINEER:
EBS ENGINEERING, PC
2568 WALDEN AVENUE, SUITE 107
CHEEKTOWAGA, NY 14225
TEL.: 716-836-9600

FOUNTAIN DESIGNER:
FOUNTAIN PEOPLE
4600 HWY 123
SAN MARCOS, TX 78666
TEL.: 512-392-1155



SITE LAYOUT & LANDSCAPE PLAN

1" = 10'

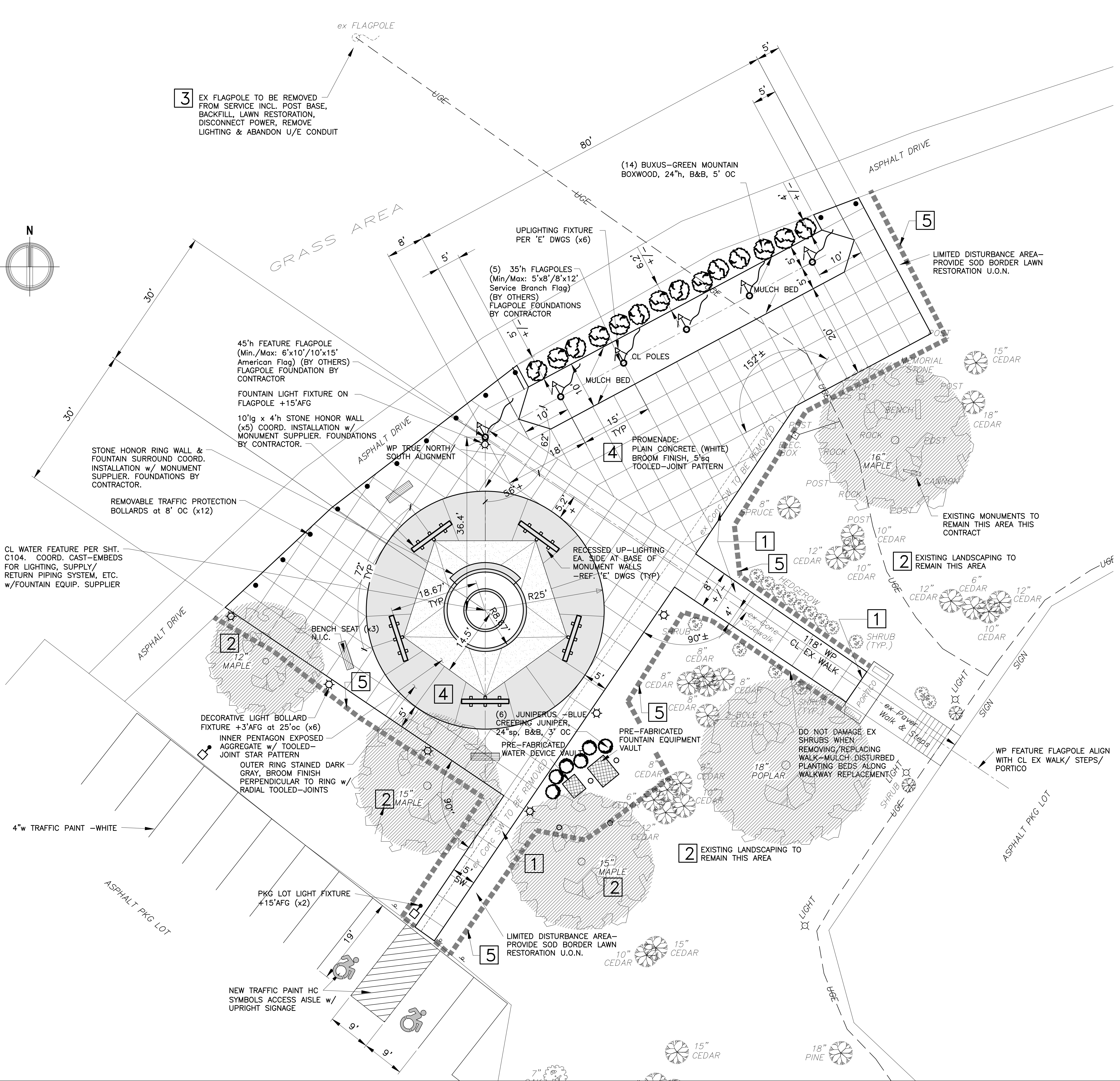


DEMOLITION NOTES:

1. REMOVE PORTIONS OF CONCRETE PAVT. SAWCUT AT CONTROL JOINT OR BLEND POINT WITH ADJACENT SURFACE (VERIFY IN FIELD)
2. PROTECT EXISTING TREE/PLANTINGS THRU-OUT CONSTRUCTION
3. REMOVE EXISTING FLAGPOLE
4. STRIP TOPSOIL AND STOCKPILE FOR REUSE* REMOVE SUBSOIL TO NEARBY AREA AS DIRECTED BY THE TOWN. EXCAVATE TO THE MINIMUM DEPTH OF PAVT/FOUNDATION SECTION SHOWN**, PROOF-ROLL SUBGRADE IN THE PRESENCE OF OWNERS SOIL TESTING AGENT PRIOR TO PLACING BACKFILL/FOUNDATION MATERIALS
5. APPROX. LIMITS OF SOIL DISTURBANCE

*NOTE: EXCESS TOPSOIL IS TO REMAIN PROPERTY OF THE TOWN OF CLARENCE. EXCESS TOPSOIL SHALL BE LOADED & HAULED TO A LOCATION TO BE DETERMINED WITHIN THE PARK.

**NOTE: REGARDING EXCAVATION FOR REMOVAL AND/OR NEW UNDERGROUND INSTALLATIONS SHOWN, SHALLOW SOUND BEDROCK IS ENCOUNTERED APPROX. 14"-40" BELOW EXISTING GRADE. SEE C102 FOR TEST PIT EXCAVATION LOCATIONS, INDICATED THUS \oplus , & APPROXIMATE TOP OF ROCK ELEVATIONS [+/-XX.XX]



PREPARED FOR

Town of Clarence
6221 Goodrich Rd
Clarence Center, NY
14032

PROJECT NAME
**CLARENCE TOWN PARK
VETERANS MEMORIAL**
10405 MAIN STREET
CLARENCE, NY

DRAWING NAME
SITE LAYOUT & LANDSCAPE PLAN

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DRAWN BY	AVM

DRAWING No

C101

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PREPARED FOR

Town of Clarence
6221 Goodrich Rd.
Clarence Center, NY
14032

PROJECT NAME
**CLARENCE TOWN PARK
VETERANS MEMORIAL**
10405 MAIN STREET
CLARENCE, NY

DRAWING NAME
SITE GRADING & UTILITIES PLAN

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C102

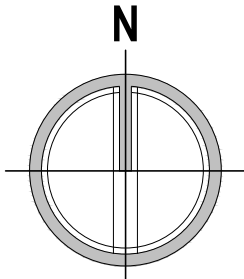
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LEGEND:

× ELEV	DENOTES PROPOSED SPOT ELEVATIONS	× ELEV	DENOTES EXISTING SPOT ELEVATIONS
⊠	DENOTES PROPOSED CATCH BASIN/MANHOLE		
○	DENOTES PROPOSED CLEANOUT		
⊕	DENOTES CONNECTION TO EXISTING UTILITY		
⊠	DENOTES PROPOSED LIGHT POLE		
RD	DENOTES PROPOSED ROOF DRAIN LEADER	DS	DENOTES PROPOSED DOWNSPOUT - REF. ARCH'L DWGS.
—ELEV—	DENOTES NEW CONTOURS	---ELEV---	DENOTES EXISTING CONTOURS
—FD—	DENOTES FOUNTAIN DRAIN/SUMP DISCHARGE PIPING		
—W—	DENOTES PROPOSED WATER LINE		

PARTIAL GRADING & UTILITIES PLAN

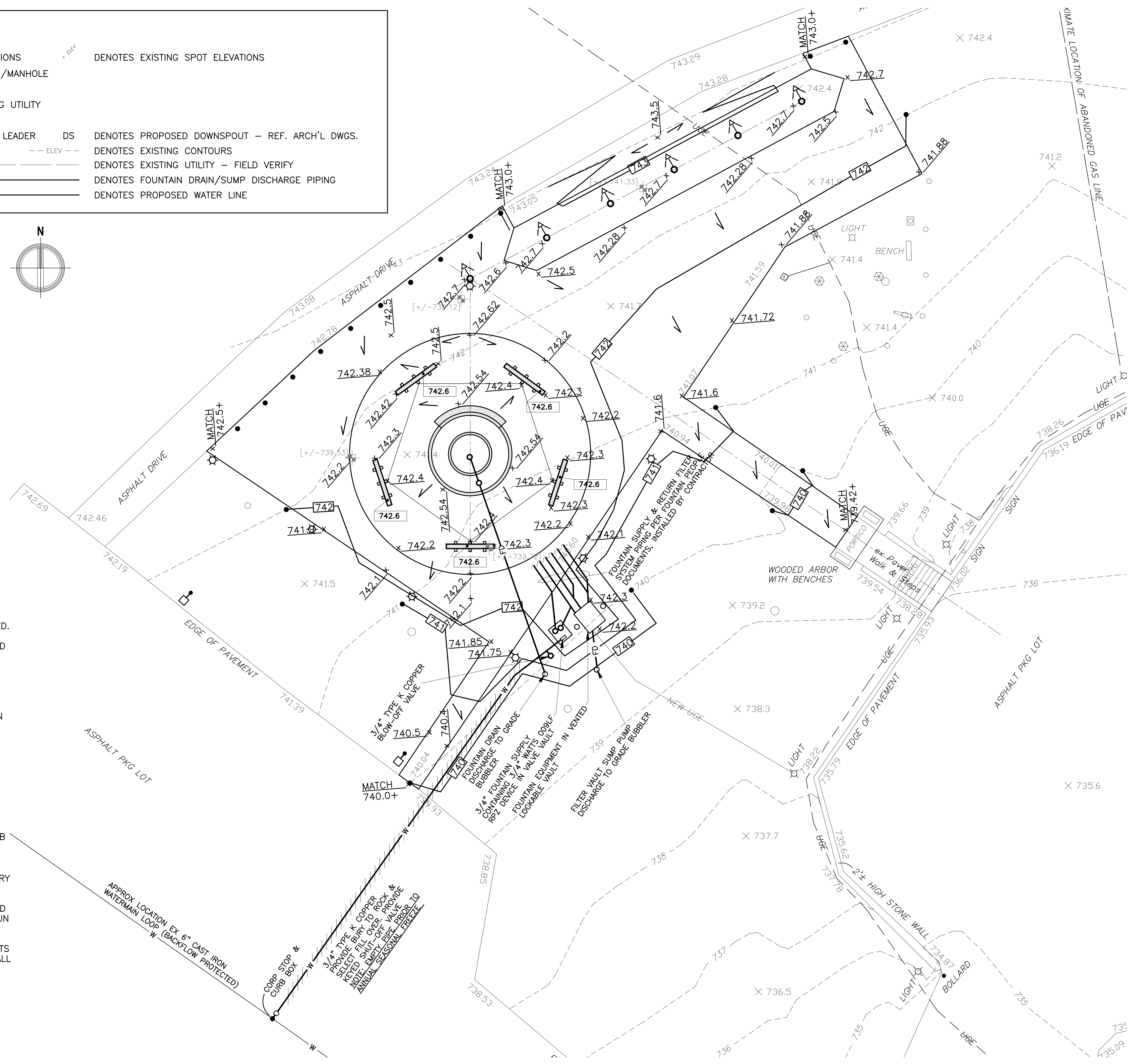
1" = 10'



GENERAL SITE NOTES

- INSTALL ALL MATERIALS TO THE MANUFACTURER'S RECOMMENDATIONS AND BEST STANDARDS OF THE TRADE INVOLVED.
- SUBSTITUTIONS SHALL BE MADE ONLY WITH OWNER APPROVAL AND SHALL BE EQUIVALENT QUALITY TO WHAT IS SPECIFIED.
- WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND OSHA SAFETY RULES AND REGULATIONS.
- VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE SITE. NOTIFY OWNER OF ANY DISCREPANCIES IN CONDITIONS SHOWN ON THE DRAWINGS PRIOR TO PROCEEDING WITH THE WORK.
- CONTRACTORS SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY EXISTING TREES, MONUMENTS, STRUCTURES, ETC. TO REMAIN AND ANY FINISH MATERIAL INSTALLED WHILE WORKING ON OTHER COMPONENTS.
- CONTRACTOR SHALL KEEP THE JOB SITE FREE OF DEBRIS AND MAKE FINAL CLEANUP TO THE SATISFACTION OF THE OWNER.
- CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION SO THAT THIS WORK DOES NOT DISTURB EXISTING LINES AND/OR INSTALLATIONS. COORDINATE ALL WORK WITH THE APPLICABLE UTILITY COMPANIES.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS NECESSARY TO PERFORM THE WORK.
- ALL UTILITY TRENCHES UNDER PAVEMENT, CURBS, SIDEWALKS, AND DRIVEWAYS SHALL BE FULLY BACKFILLED WITH No 2 CRUSHER RUN STONE AND PROPERLY COMPACTED TO AVOID SETTLEMENT.
- CONTRACTOR SHALL REPLACE IN KIND ANY EXISTING IMPROVEMENTS TO REMAIN THAT ARE DAMAGED DURING CONSTRUCTION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO LANDSCAPING, LAWN, ROAD PAVEMENTS, SIDEWALKS, AND EXISTING UTILITIES.

NOTE:
NO UNDERGROUND UTILITY LOCATIONS HAVE BEEN VERIFIED. BEFORE DIGGING, DRILLING OR BLASTING, CALL UFPO AT 1-800-962-7962



PREPARED FOR

Clarence Rotary
2457 Wehrle Drive
Williamsville, NY
14221

PROJECT NAME
**CLARENCE TOWN PARK
VETERANS MEMORIAL**
10405 MAIN STREET
CLARENCE, NY

DRAWING NAME
SITE DETAILS

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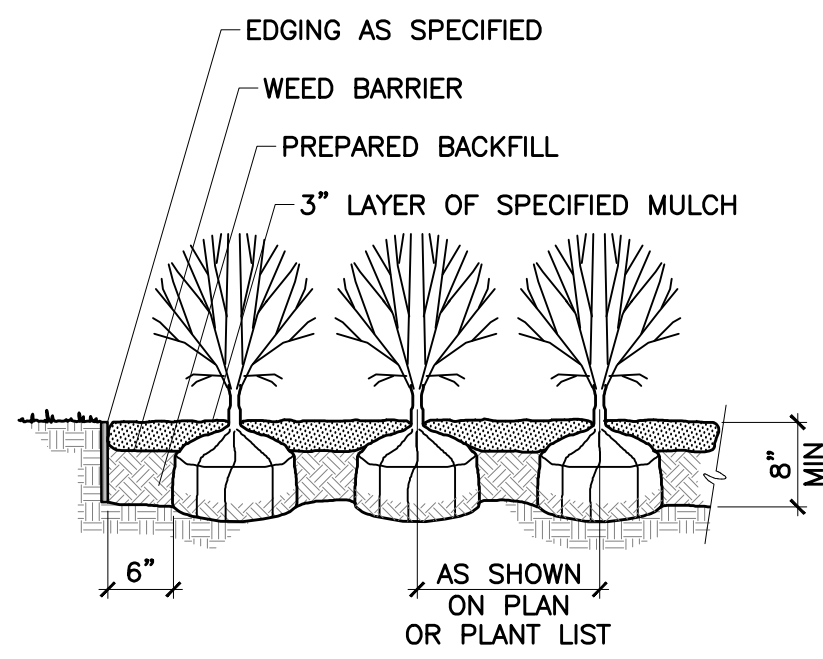
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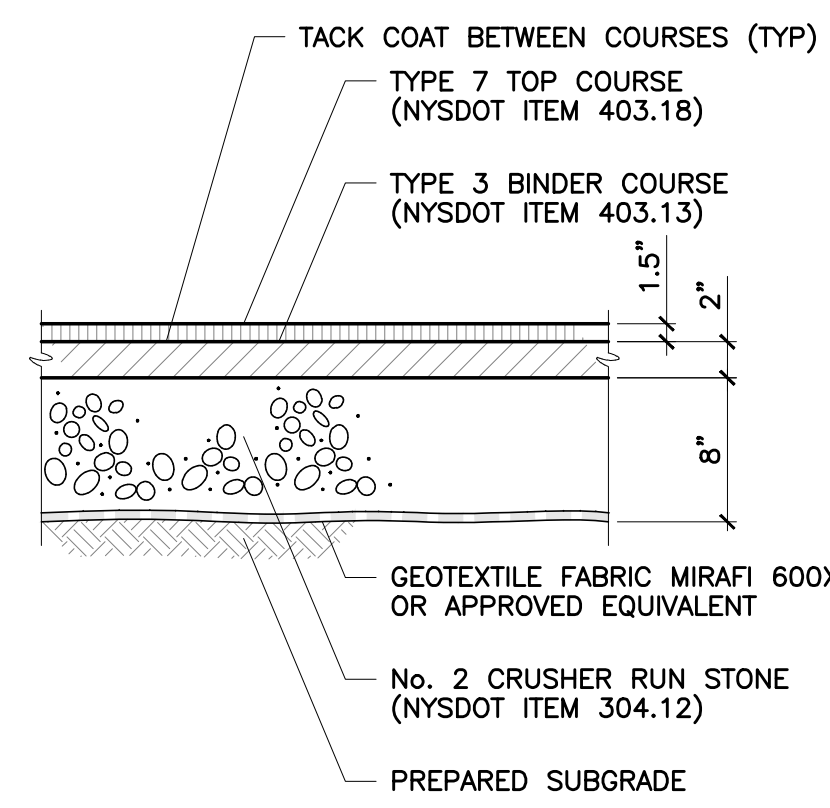
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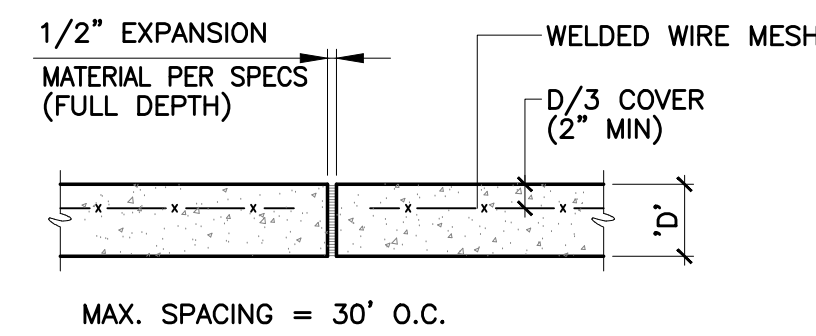
C103



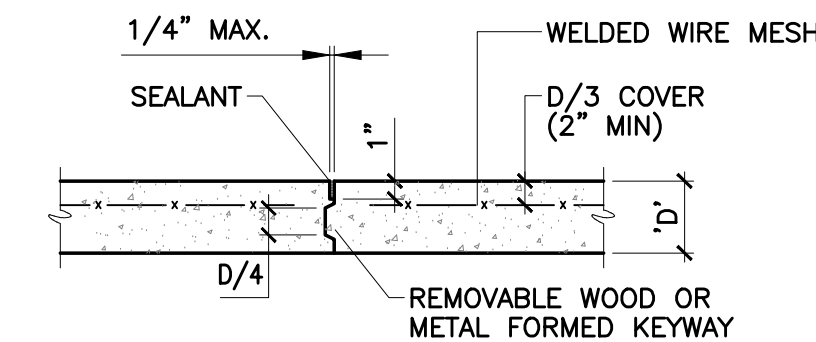
6 SHRUB PLANTING DETAIL



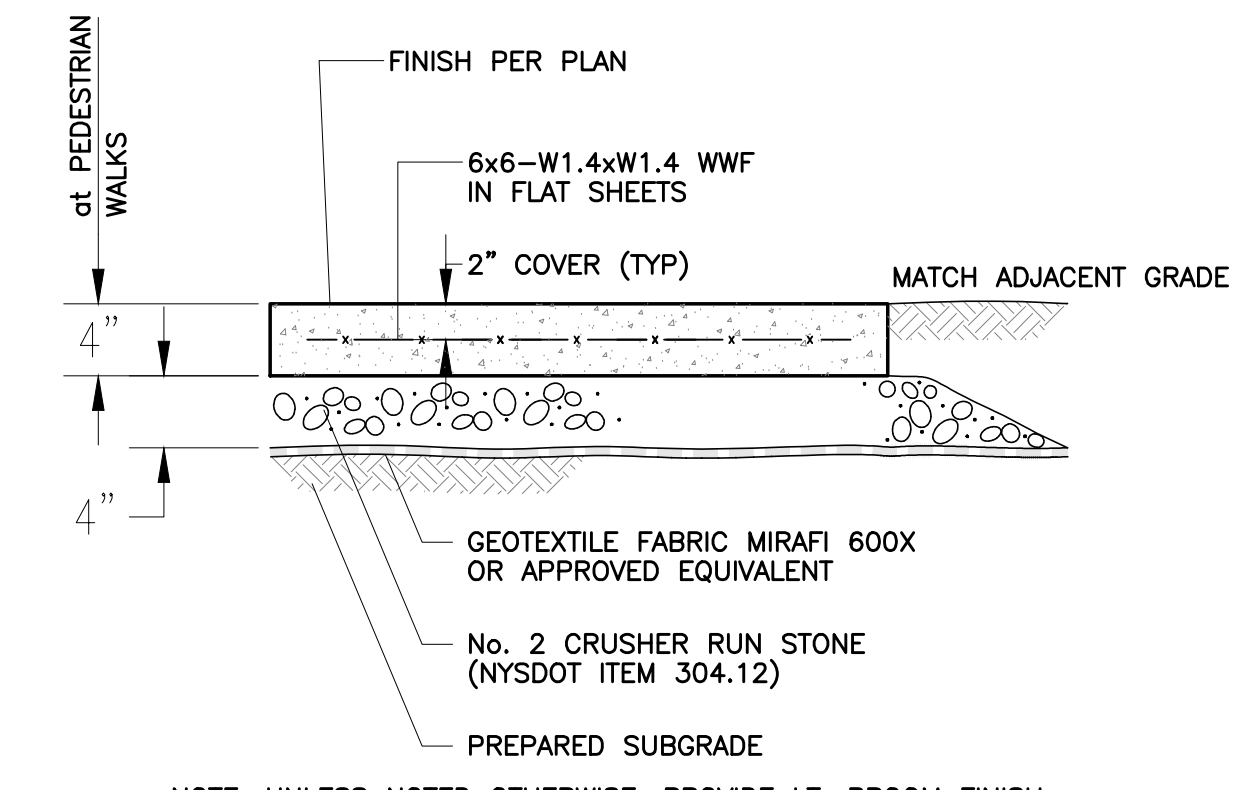
5 TYPICAL TYPE I BITUMINOUS PAVEMENT SECTION



2 EXPANSION JOINT IN EXTERIOR CONC PAVEMENT

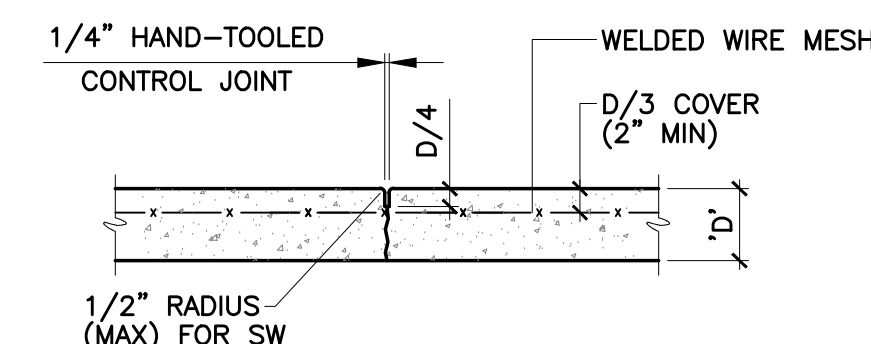


3 CONSTRUCTION JOINT IN EXTERIOR CONC PAVEMENT

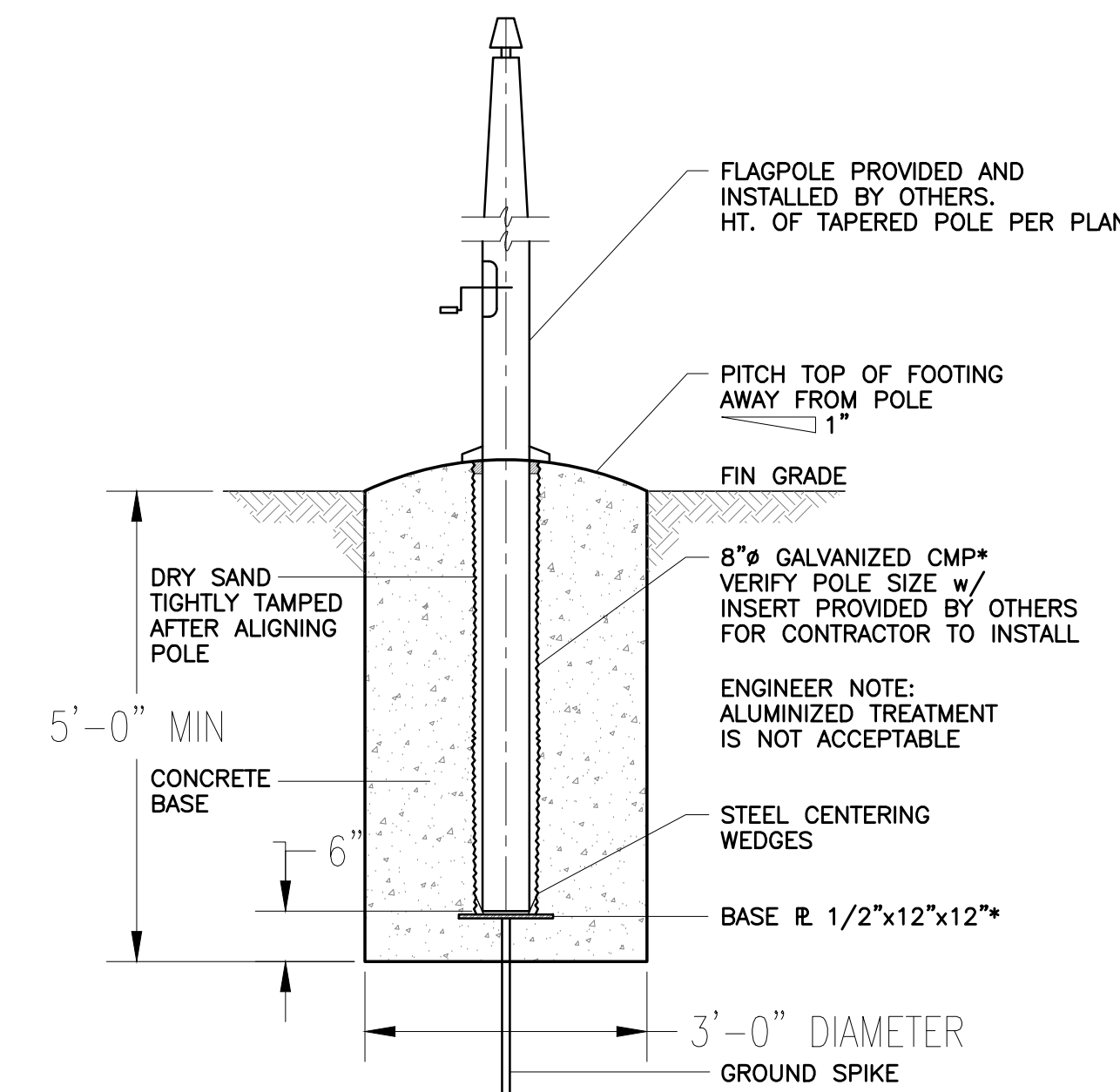


NOTE: UNLESS NOTED OTHERWISE, PROVIDE LT. BROOM FINISH PERPENDICULAR TO DIRECTION OF TRAFFIC U.O.N.

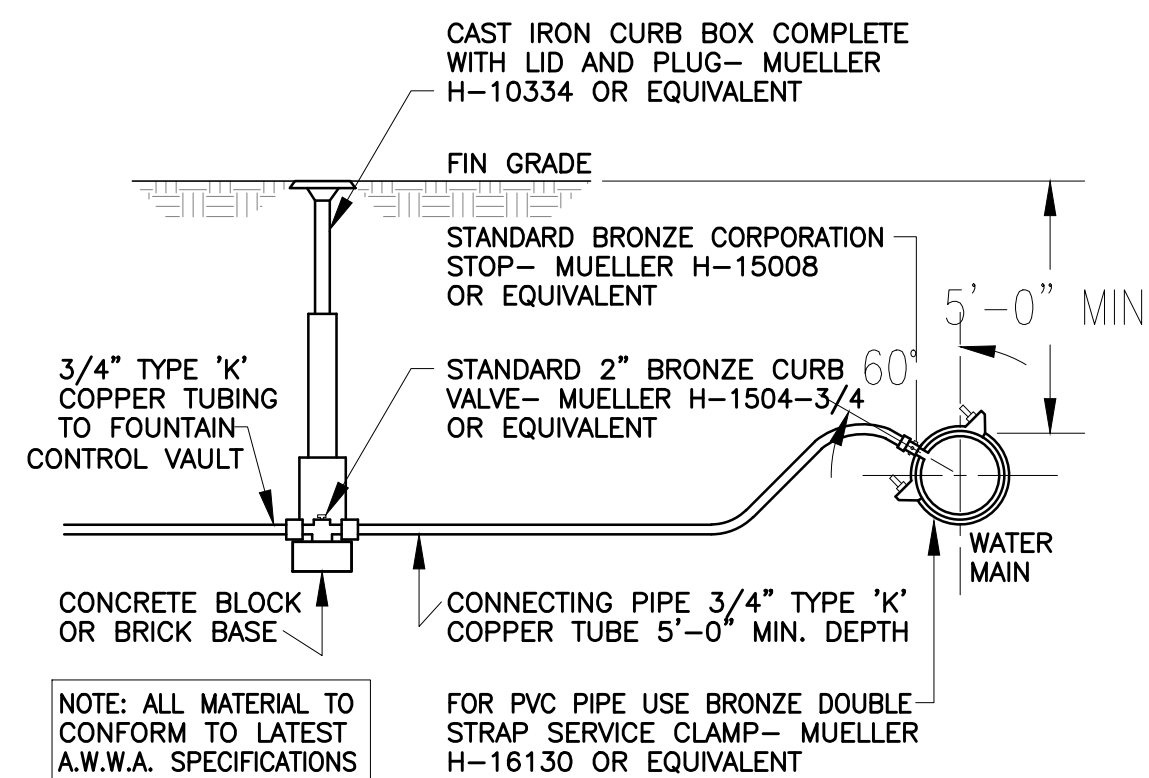
1 TYPICAL CONCRETE SIDEWALK



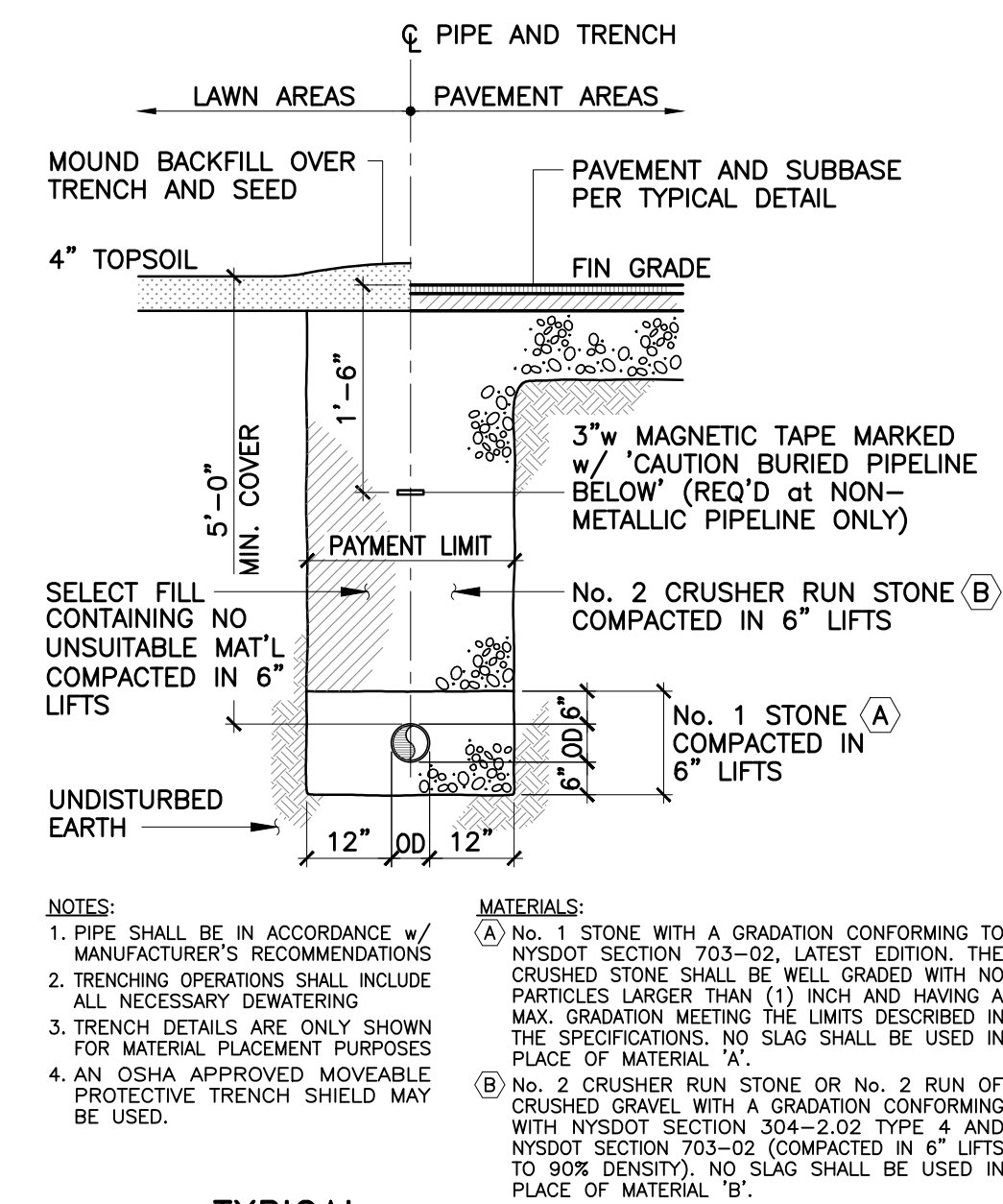
4 CONTROL JOINT IN EXTERIOR CONC PAVEMENT



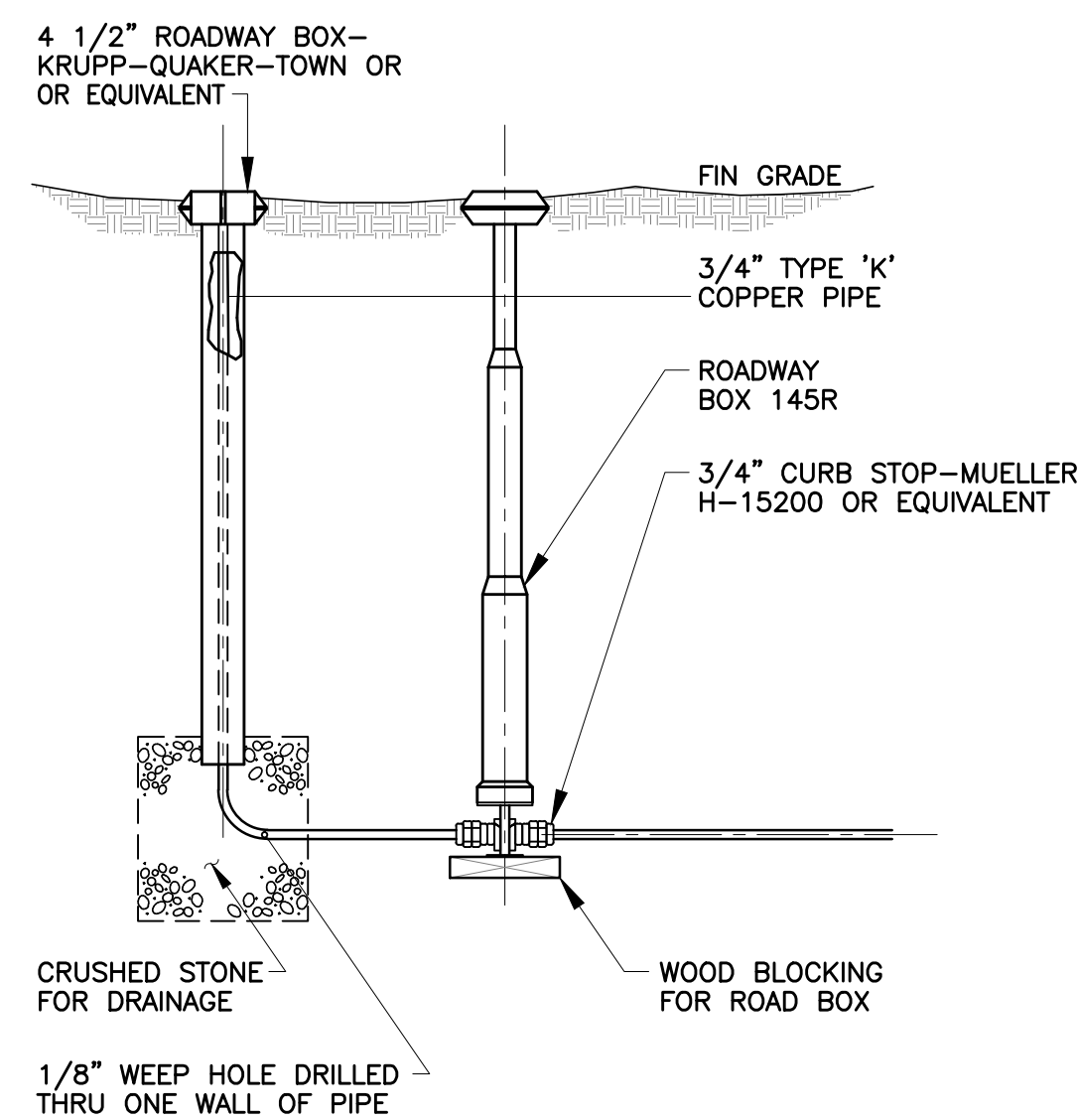
7 FLAGPOLE FOUNDATION
NOTE: FOUNDATION EXCAVATION, INSTALLATION OF GALV. SLEEVE & CONCRETE FNDN TO BE BY CONTRACTOR. *COORDINATE INSTALLATION OF GALV. SLEEVE WHICH SHALL BE PROVIDED BY OTHERS



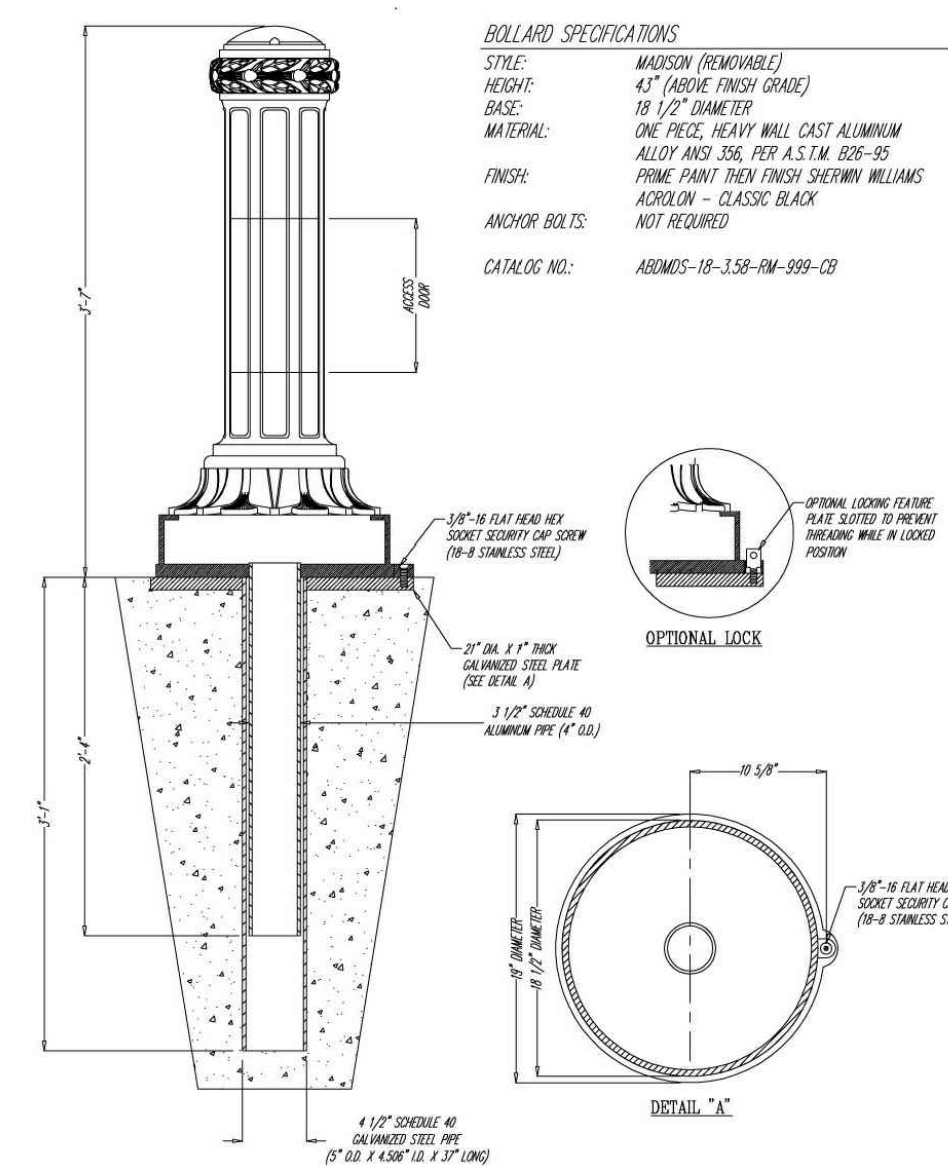
9 WATER SERVICE LINE CONNECTION DETAIL
≤ 2-INCH PIPE



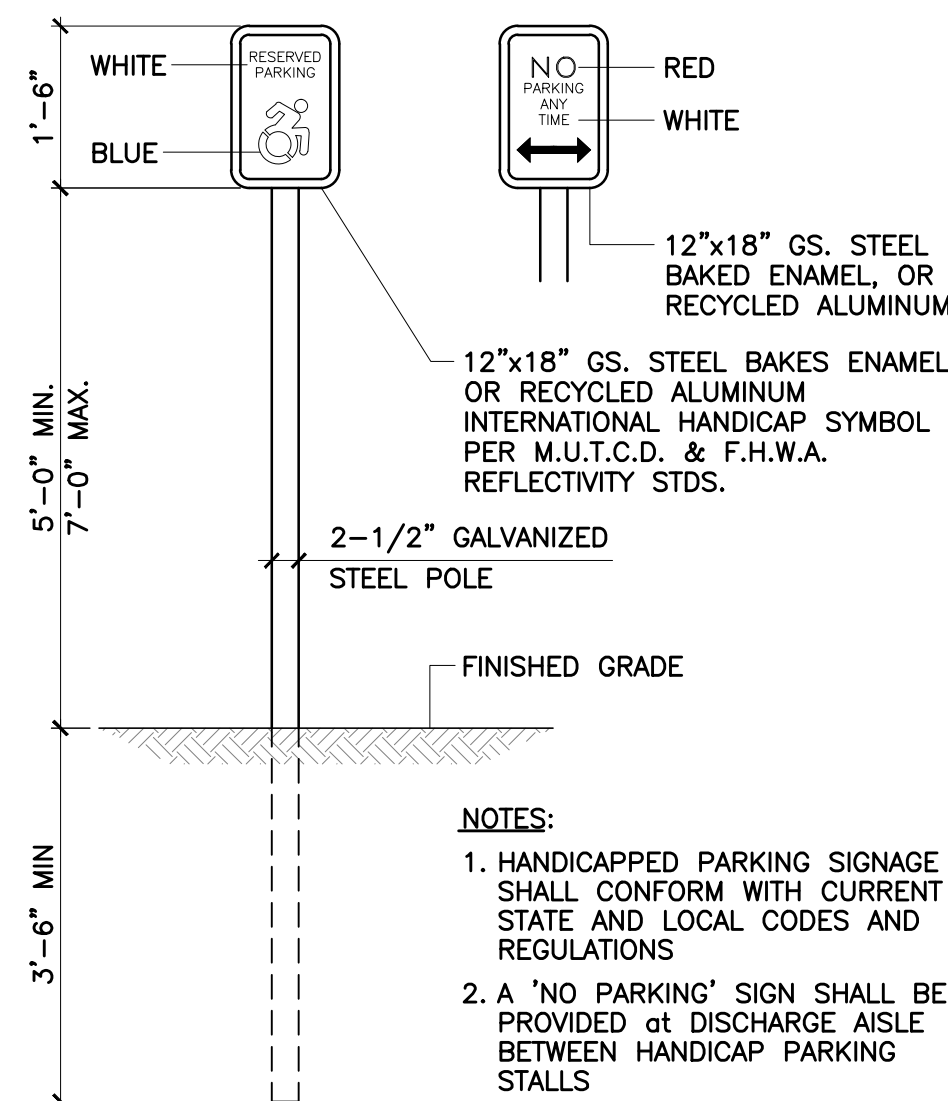
8 TYPICAL WATERLINE TRENCH SECTION



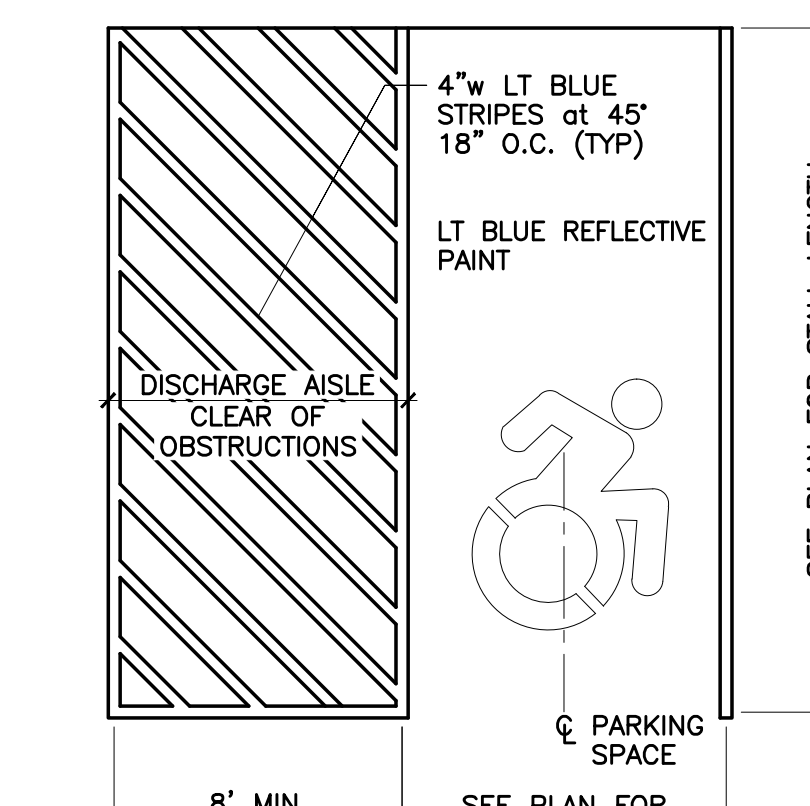
13 PERMANENT BLOW-OFF DETAIL



12 REMOVABLE DECORATIVE TRAFFIC BOLLARD - BASIS OF DESIGN



11 HANDICAPPED PARKING SIGNAGE
LOCATED IN LAWN AREAS



10 HANDICAP SYMBOL DETAIL

PREPARED FOR

Town of Clarence
6221 Goodrich Road
Clarence Center, NY
14032

PROJECT NAME
**CLARENCE TOWN PARK
VETERANS MEMORIAL**
10405 MAIN STREET
CLARENCE, NY

DRAWING NAME
**FOUNTAIN FOUNDATION
PLAN AND DETAILS**

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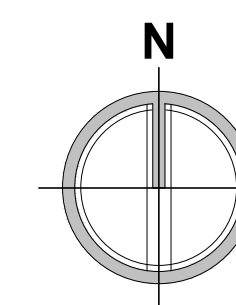
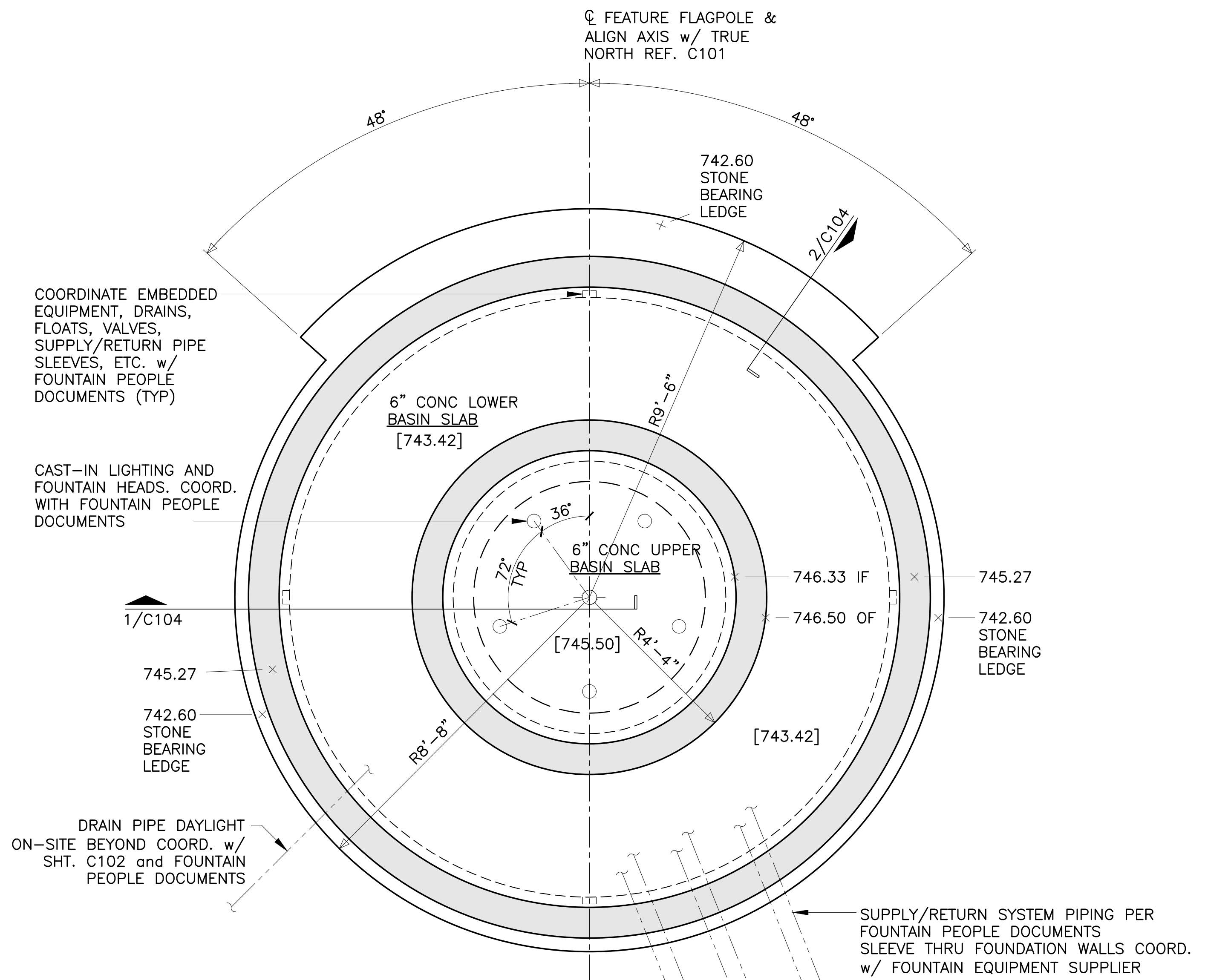
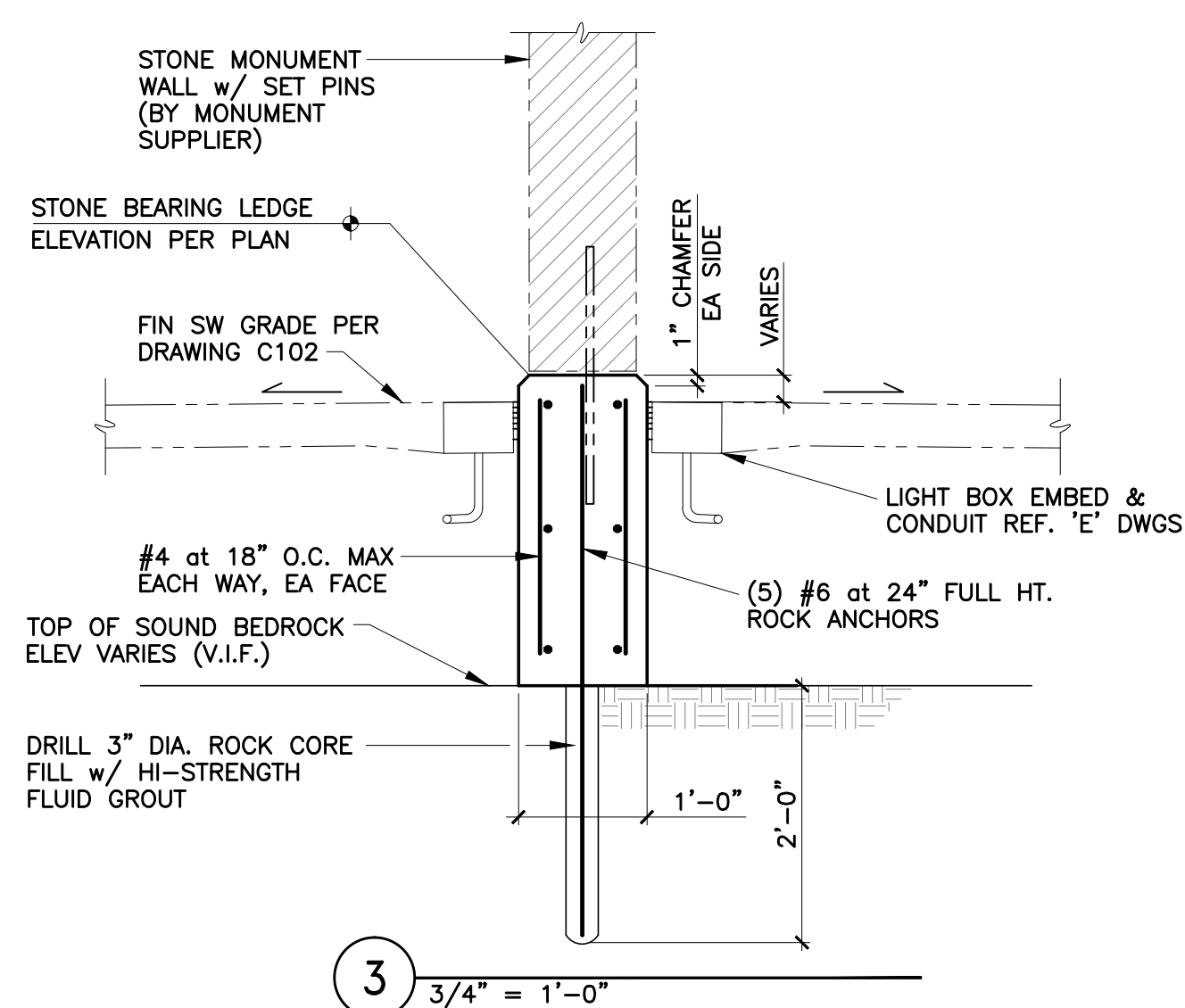
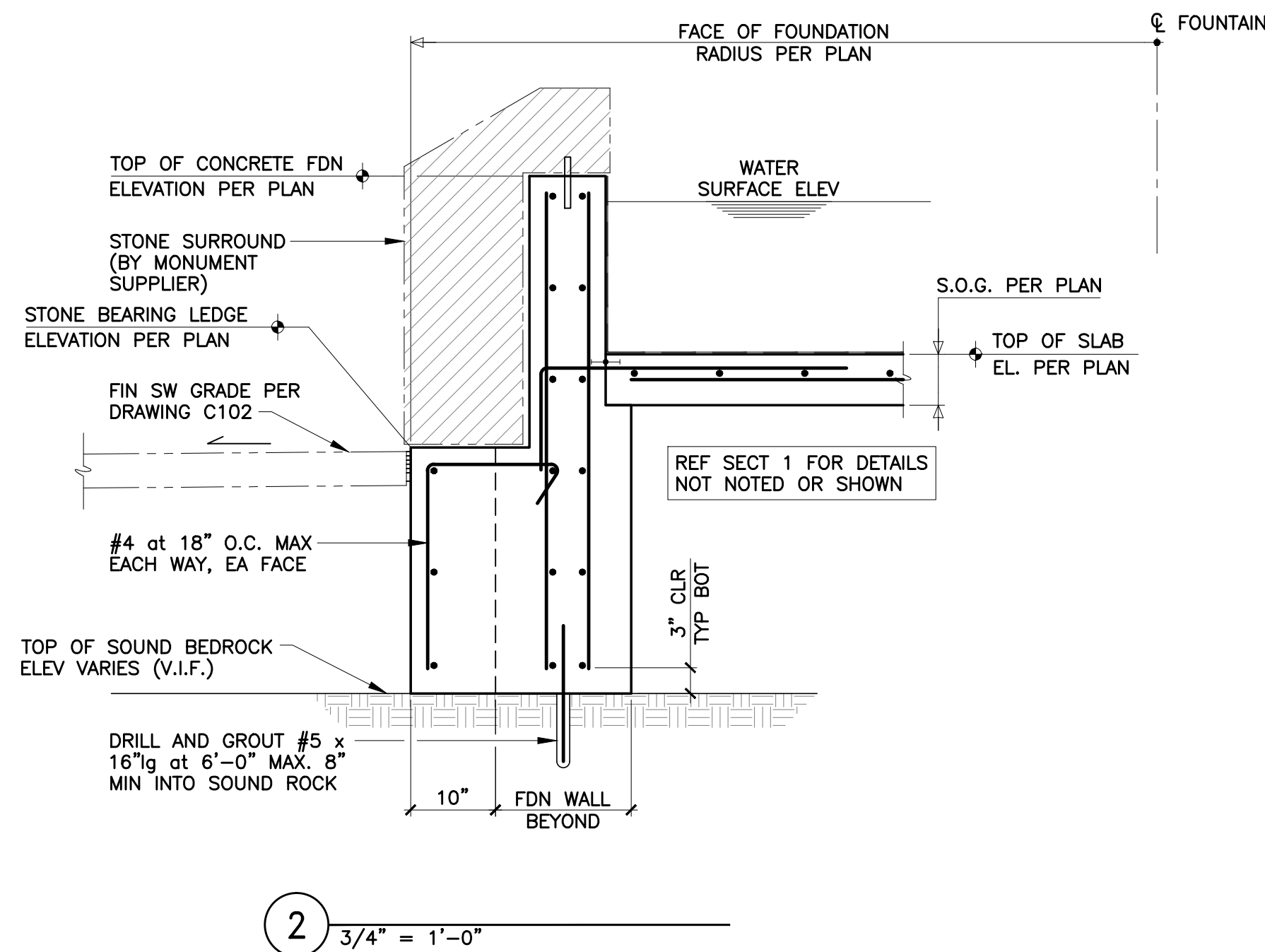
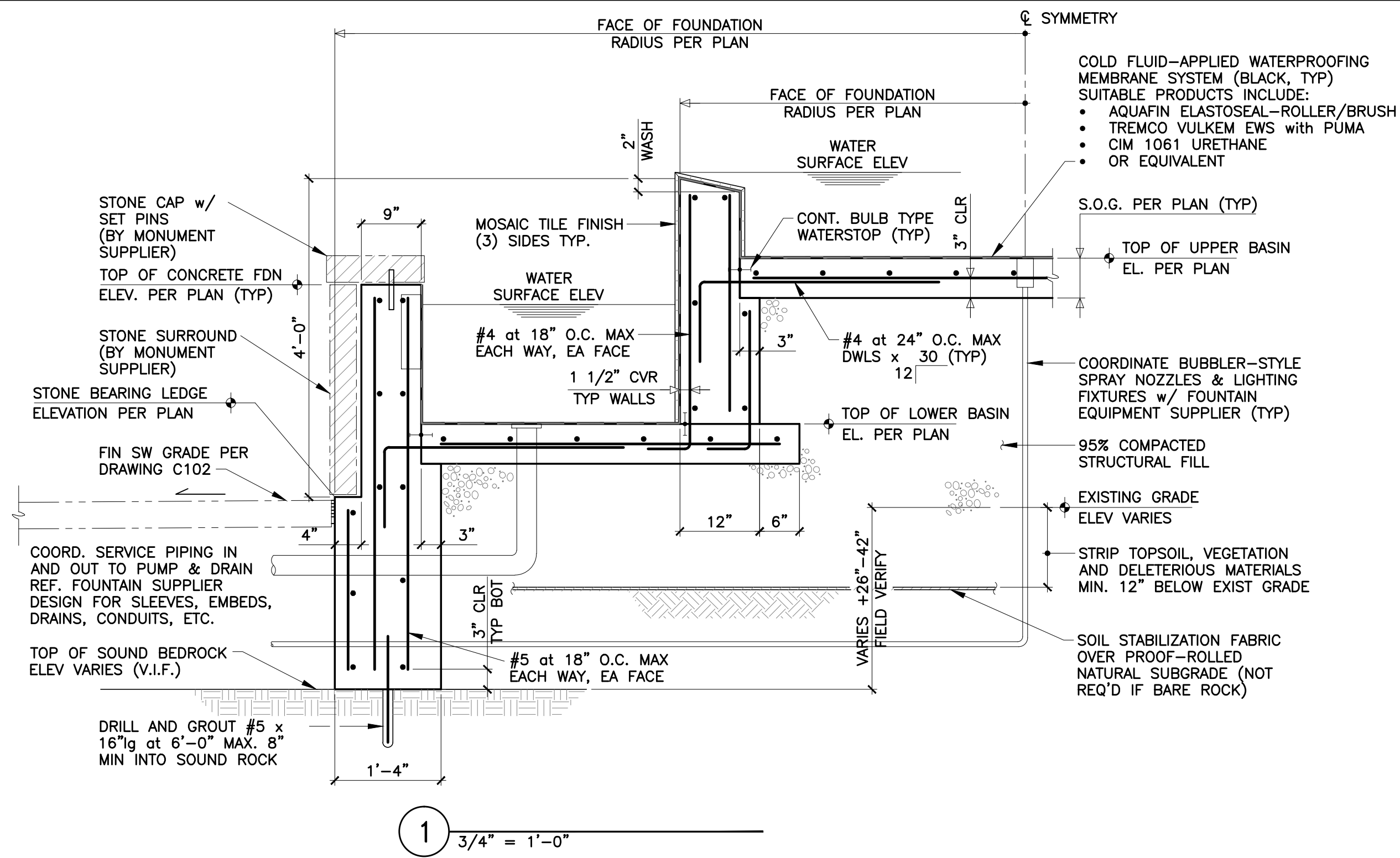
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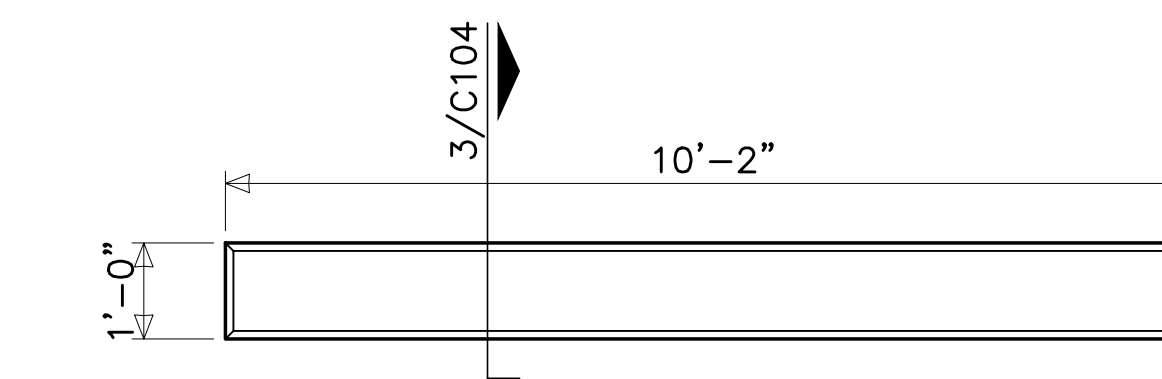
C104

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FOUNTAIN FOUNDATION PLAN
1/2" = 1'-0"

- TOP OF FOUNDATIONS VARY, NOTED THUS: ×
- TOP OF BASIN SLAB EL. VARIES, NOTED THUS: []
- BASIN SLAB ON GRADE TO BE 6"thk REINFORCED WITH #4 at 12" O.C. MAX EACH WAY. HAND-TROWEL FINISH
- ALL REINFORCING SHOWN (WALLS AND SLABS) SHALL BE TIED (BONDED) TO COMPLY WITH CURRENT NEC REQUIREMENTS
- COORDINATE AND EMBED ALL EQUIPMENT, PIPING, AND ELECTRICAL ROUGH-INS WITH FOUNTAIN DESIGN DOCUMENTS PRIOR TO PREPARATION OF SHOP DWGS AND CASTING OF CONCRETE



MONUMENT WALL FNDN PLAN (x5)
1/2" = 1'-0"

- BOTTOM OF WALL BEARING ON SOUND BEDROCK EL. VARIES
- TOP OF CONC WALL/MONUMENT BEARING EL. PER SITE PLAN C102 NOTED THUS: []
- EXPOSED TOP AND SIDES OF WALL FOUNDATIONS SHALL BE STAINED AT THE SAME TIME THAT THE SURROUNDING PAVEMENTS ARE STAINED TO PROVIDE CONSISTENT COLORIZATION

GENERAL NOTES

FOUNDATIONS

- F1 ALL FOUNDATIONS SHALL BEAR ON EXISTING BEDROCK.
- F2 NO FOUNDATIONS OR SLABS SHALL BE PLACED IN WATER OR ON FROZEN GROUND.
- F3 ALL EXCAVATIONS ARE TO BE FINISHED BY HAND. PLACE FOOTING CONCRETE SAME DAY OF EXCAVATION OR PROTECT SUBGRADE BY IMMEDIATELY PLACING A 3-INCH LEAN CONCRETE MUD MAT.
- F4 ALL FINISHED EXCAVATIONS AND BEARING GRADES SHALL BE INSPECTED AND APPROVED BY THE OWNER'S SOIL TESTING AGENCY BEFORE ANY CONCRETE IS PLACED.
- F5 ALL STRUCTURAL FILL UNDER ANY PORTION OF THE STRUCTURE SHALL BE COMPACTED IN 8-INCH LIFTS. SEE SPECIFICATIONS FOR THE ACCEPTABLE GRADATIONS AND COMPACTION REQUIREMENTS.
- F6 THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE VALIDITY OF THE SUBSURFACE CONDITIONS DESCRIBED ON THE DRAWINGS. THESE DATA REPRESENT CONDITIONS ONLY AT THESE SPECIFIC LOCATIONS AT THE PARTICULAR TIME THEY WERE MADE.
- F7 BACKFILL AGAINST FOUNDATION WALLS BELOW GRADE SO THAT THE DIFFERENCE IN FILL LEVEL ON OPPOSITE SIDES DOES NOT EXCEED 1'-0" AT ANY TIME.
- F8 ALL FOUNDATION WALLS SHALL BE BRACED DURING THE OPERATION OF BACKFILLING AND COMPACTION. BRACING SHALL BE LEFT IN POSITION UNTIL PERMANENT RESTRAINTS ARE EFFECTIVE. BACKFILL NO FOUNDATION WALLS UNTIL PERMANENT LATERAL STRUCTURAL SUPPORT SYSTEM IS IN PLACE AND OF ADEQUATE STRENGTH TO WITHSTAND THE APPLIED LATERAL PRESSURES.
- F10 LOCATE ALL EXISTING BELOW GRADE UTILITIES. PROVIDE UTILITIES WITH POSITIVE PROTECTION AGAINST DAMAGE DUE TO SETTLEMENT AND CONSTRUCTION OPERATIONS.
- F11 USE SIDE FORMS FOR ALL WALLS.
- F12 THE EXPOSED SUBGRADE SOILS MAY BE SENSITIVE TO DISTURBANCE AND STRENGTH DEGRADATION WHEN HIGH MOISTURE CONTENTS ARE PRESENT. MINIMIZE CONSTRUCTION TRAFFIC OVER EXPOSED SUBGRADES AND DO NOT ALLOW WATER TO POND ON THESE SUBGRADES. CONTROL SURFACE AND GROUND WATER BY PROPER SITE GRADING, SURFACE DRAINAGE CHANNELS, PERIMETER CUTOFF TRENCHES AND SUMP PUMP METHODS UNTIL GROUND FLOOR SLABS, PERIMETER WALLS AND WATERPROOFING ARE INSTALLED AND THE PERMANENT BUILDING DRAINAGE SYSTEM IS FULLY OPERATIONAL.
- F13 RETAIN THE PERIMETER OF THE GENERAL EXCAVATION WHERE NECESSARY AND AS RECOMMENDED BY THE OWNER'S SOILS TESTING AGENCY. THE DESIGN, INSTALLATION, MAINTENANCE AND REMOVAL ARE THE COMPLETE AND SOLE RESPONSIBILITY OF THE CONTRACTOR. PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO PREVENT AND MINIMIZE SETTLEMENT OF EXISTING OR NEW CONSTRUCTION INSIDE OR OUTSIDE THE PROJECT LIMITS.
- F14 SEE SPECIFICATION SECTION 312000 - EARTHMOVING FOR ADDITIONAL REQUIREMENTS.

CONCRETE

- C1 ALL CONCRETE SHALL BE CONTROLLED CONCRETE.
- C2 A QUALITY CONTROL PROGRAM OF FIELD TESTING AND INSPECTION SHALL BE PERFORMED ON ALL STRUCTURAL CONCRETE WORK IN ACCORDANCE WITH THE SPECIFICATIONS.
- C3 CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28-DAYS:

A. FOUNDATION WALLS	4000 PSI
B. SLABS ON GRADE	3500 PSI
C. ALL OTHER CONCRETE	3000 PSI
- C4 ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A NOMINAL AIR DRY DENSITY OF 145 PCF.
- C5 FOR AIR ENTRAINMENT AND OTHER CONCRETE CHARACTERISTICS - SEE SPECIFICATIONS.
- C6 PROVIDE CONSTRUCTION JOINTS WHERE SHOWN. OMIT NONE AND ADD NONE WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT/ENGINEER. SUBMIT DRAWINGS SHOWING ALL PROPOSED CONSTRUCTION JOINT LOCATIONS FOR APPROVAL PRIOR TO PREPARATION OF AFFECTED REINFORCEMENT SHOP DRAWINGS.
- C7 SIZES OF CONCRETE PLACEMENTS SHALL NOT EXCEED THE FOLLOWING:

A. WALLS - SECTION 60- FEET MAXIMUM LENGTH.	
B. SLABS ON GRADE - PLACE IN ACCORDANCE WITH JOINT PATTERNS INDICATED ON PLAN. PLACE IN LINEAR STRIPS NOT TO EXCEED 30 FT. PLACEMENTS AREA SHALL NOT EXCEED "FORMED JOINTS" AS INDICATED ON PLAN WITHOUT PRIOR ACCEPTANCE BY THE ARCHITECT/ENGINEER. BEGIN SAWCUTTING OF THE SLAB AS SOON AS THE SAW DOES NOT CAUSE THE SURFACE TO BE TORN OR DAMAGED, BUT IN NO CASE MORE THAN 12 HOURS AFTER SLAB FINISHING OPERATIONS.	
FOR BID/SCHEDULING PURPOSES, IT IS ASSUMED THAT, FOLLOWING COMPLETION OF THE FOUNDATIONS AND FOUNTAIN EQUIPMENT ROUGH-IN, THE EXPOSED AGGREGATE PENTAGON AND THE STAINED OUTER RING WILL BE CAST AND FINISHED SEPERATELY. THE BALANCE OF THE PLAZA PAVEMENTS SHALL BE COMPLETED AFTER THE STONE MONUMENTS ARE INSTALLED.	
- C8 MINIMUM ELAPSED TIME BETWEEN ADJACENT CONCRETE PLACEMENTS SHALL BE 48 HOURS.
- C9 CONCRETE SLABS SHALL BE CAST SO THAT THE SLAB THICKNESS IS AT NO POINT LESS THAN THAT INDICATED ON THE DRAWINGS.
- C10 CONCRETE MIX DESIGN FOR EACH TYPE AND STRENGTH OF CONCRETE SPECIFIED SHALL BE SUBMITTED FOR ARCHITECT/ENGINEER REVIEW 30-DAYS PRIOR TO PLACEMENT OF CONCRETE.
- C11 WIRE BRUSH CLEAN AND MOISTEN ALL CONSTRUCTION JOINTS IMMEDIATELY PRIOR TO PLACING NEW CONCRETE.
- C12 NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.
- C13 REFER TO ACI 305 FOR HOT WEATHER CONCRETE REQUIREMENTS AND ACI 306 FOR COLD WEATHER CONCRETE REQUIREMENTS.
- C14 SEE SPECIFICATION SECTION 033000 - CAST IN PLACE CONCRETE FOR CONCRETE MIX CRITERIA AND ADDITIONAL REQUIREMENTS.

REINFORCING

- R1 ALL BAR REINFORCEMENT SHALL CONFORM TO ASTM 615, GRADE 60.
- R2 WELDED WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185.
- R3 CLEARANCE OF MAIN REINFORCEMENT FROM ADJACENT SURFACES SHALL CONFORM TO THE FOLLOWING (UNLESS OTHERWISE SHOWN IN DETAIL):

A. UNFORMED SURFACES IN CONTACT WITH GROUND (WALL BOTTOM)	3 INCHES
B. SLABS ON GRADE	2 1/2 INCHES
C. FORMED SURFACES IN CONTACT WITH GROUND OR EXPOSED TO WEATHER (WALLS)	2 INCHES
D. IN ALL CASES, CLEARANCE NOT LESS THAN DIAMETER OF BARS.	

NOTE: MAXIMUM DEVIATION FROM THESE REQUIREMENTS SHALL BE +1/4" FOR SECTIONS TEN (10) INCHES OR LESS AND +1/2" FOR SECTIONS OVER TEN (10) INCHES THICK.

- R4 REINFORCEMENT SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS UNLESS OTHERWISE INDICATED ON DRAWINGS.
- R5 WHERE REINFORCING IS NOT SHOWN ON THE DRAWINGS, PROVIDE REINFORCEMENT IN ACCORDANCE WITH APPLICABLE TYPICAL DETAILS OR SIMILAR TO THAT SHOWN FOR MOST NEARLY SIMILAR SITUATIONS, AS DETERMINED BY THE ARCHITECT/ENGINEER. IN NO CASE SHALL REINFORCEMENT BE LESS THAN MINIMUM PERMITTED BY THE APPLICABLE CODES.
- R6 ALL WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI-315), AND BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI-318).
- R7 ALL REINFORCING SHALL BE INSPECTED AND APPROVED BY THE ARCHITECT/ENGINEER OR OWNER'S TESTING AGENCY BEFORE CONCRETE IS PLACED.
- R8 WHERE CONTINUOUS BARS ARE CALLED FOR, THEY SHALL BE RUN CONTINUOUSLY AROUND CORNERS, LAPPED AT NECESSARY SPLICES AND HOOKED AT DISCONTINUOUS ENDS.
- R9 WELDED WIRE FABRIC SHALL BE LAPPED ONE FULL MESH PANEL OR 6" MINIMUM.
- R10 ALL REINFORCING SPLICES SHALL CONFORM TO THE TABLE(S) PROVIDED IN THE GENERAL NOTES FOR EACH STRENGTH OF CONCRETE BUT IN NO CASE LESS THAN THE REQUIREMENTS OF THE LATEST EDITION OF ACI-318.
- R11 SLABS AND WALLS SHALL NOT BE SLEEVED OR BOXED OUT OR HAVE THEIR REINFORCING INTERRUPTED EXCEPT AS SPECIFICALLY NOTED ON THE DRAWINGS. PROVIDE ADDITIONAL REINFORCEMENT AROUND OPENINGS AS SHOWN IN THE DETAILS.
- R12 SUBMIT CHECKED SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION OF REINFORCING. DRAWINGS SHALL SHOW REINFORCING DETAILS, INCLUDING SIZE AND SPACING OF BARS AND SUPPORT DETAILS. SHOP DRAWINGS SHALL INDICATE CONSTRUCTION JOINTS, CURBS, DEPRESSIONS, SLEEVES, AND OPENINGS, ETC... WITH ALL ADDITIONAL REINFORCING REQUIRED.
- R13 BAR SUPPORTS SHALL BE GALVANIZED OR STAINLESS STEEL. IN ADDITION, BAR SUPPORTS IN CONTACT WITH EXPOSED SURFACES SHALL BE PLASTIC TIPPED.

MISCELLANEOUS

- M1 CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE JOB. VERIFICATION OF EXISTING DIMENSIONS AND CONDITIONS SHALL BE DONE PRIOR TO PREPARATION OF SHOP DRAWINGS.
- M2 ALL OPENINGS THROUGH SLABS AND WALLS ARE NOT SHOWN. PROVIDE UNIT PRICES FOR ADDITIONAL FRAMING AND REINFORCING.
- M3 CONSULT THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND DIMENSIONS OF CHASES, INSERTS, OPENINGS, SLEEVES, WASHES, DRIPS, REVEALS, DEPRESSIONS AND OTHER PROJECT REQUIREMENTS.
- M4 ALL WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE BUILDING CODE OF NEW YORK STATE, THE AISC CODE, THE ACI BUILDING CODE (ACI 318, ACI 530), THE AMERICAN WELDING SOCIETY CODE AND ALL OTHER APPLICABLE ASTM STANDARDS. IN CASES OF CONFLICT, THE MOST STRINGENT SHALL GOVERN.
- M5 TYPICAL DETAILS APPLY TO ALL DRAWINGS AND SHALL BE USED EXCEPT WHERE OTHERWISE SHOWN OR NOTED.

BEAM, SLAB AND WALL REINFORCING LAP SPLICE LENGTHS

LAP SPLICE LENGTHS FOR REINFORCING IN 4000 PSI CONCRETE ARE AS FOLLOWS:

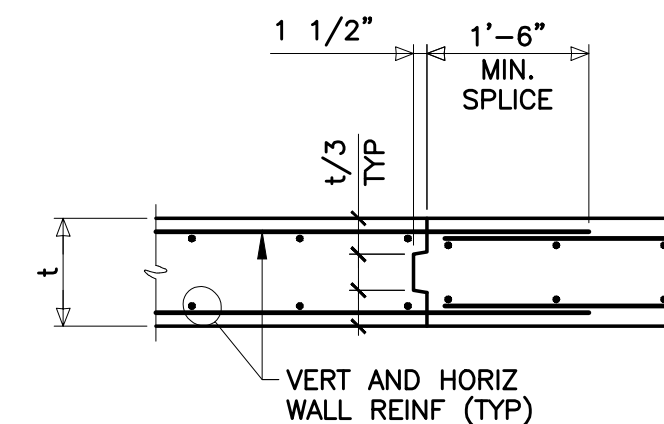
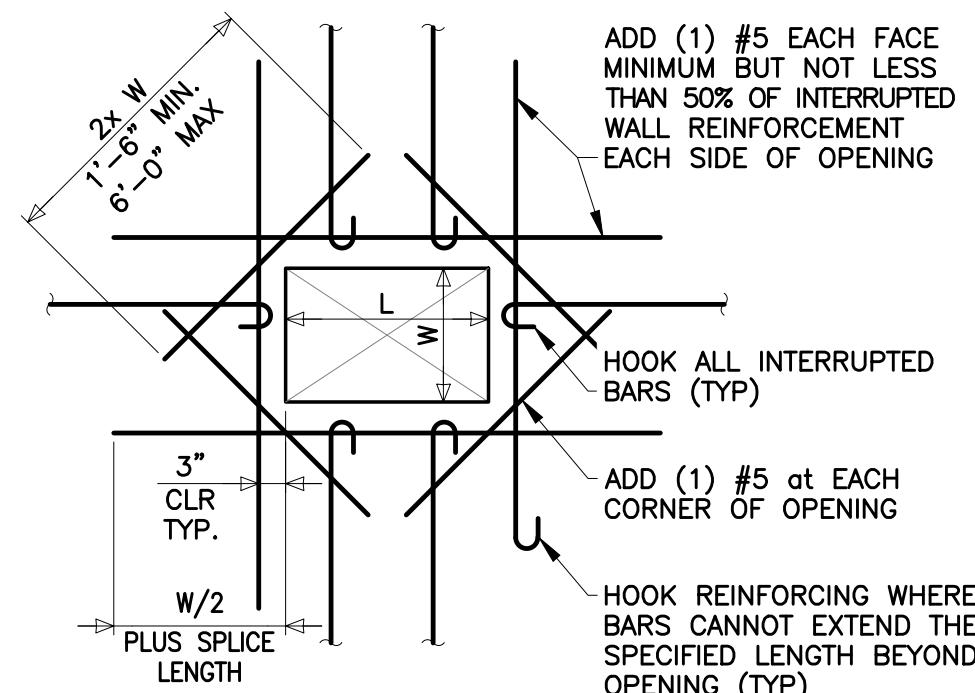
BAR SIZE	TENSION SPLICE		DEVELOPMENT LENGTH
	TOP	OTHER	
3	21	15	13
4	29	20	17
5	36	26	21
6	43	31	25
7	54	39	32
8	71	51	42
9	90	65	53
10	115	82	68
11	163	101	83

LAP SPLICE LENGTHS FOR REINFORCING IN 3000 PSI CONCRETE ARE AS FOLLOWS:

BAR SIZE	TENSION SPLICE		DEVELOPMENT LENGTH
	TOP	OTHER	
3	21	15	13
4	29	20	17
5	36	26	21
6	46	33	27
7	63	45	37
8	82	59	49
9	104	75	61
10	132	95	78
11	163	116	96

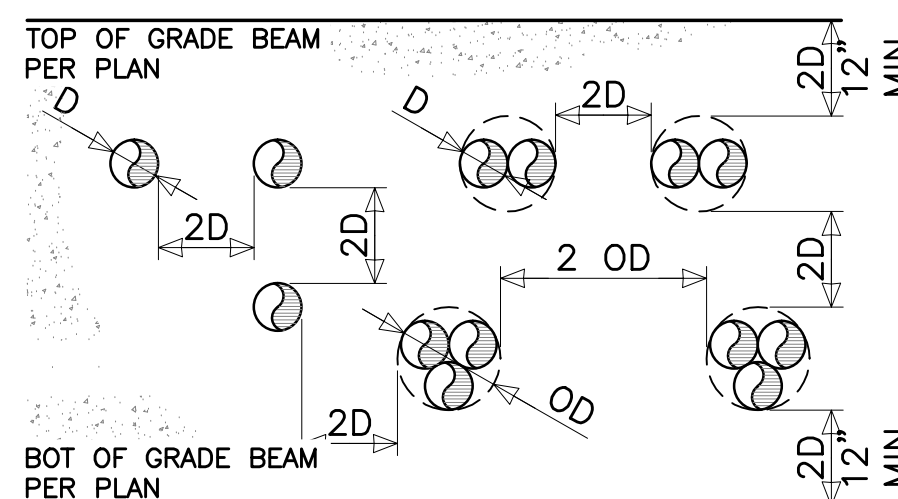
NOTES:

- 1. LAPPED SPLICE LENGTHS BASED ON ASTM A-615, GRADE 60, REBAR.
- 2. REINFORCING BARS ARE CLASSED AS TOP BARS WHEN MORE THAN 12" OF CONCRETE IS CAST BENEATH RESPECTIVE REINFORCING BAR.
- 3. COMPRESSION SPLICES PERMISSIBLE ONLY WHERE SPECIFICALLY NOTED ON THE DRAWINGS, DETAILS OR SCHEDULES.
- 4. TENSION SPLICES SHALL BE USED IN ALL BEAMS, SLABS AND WALLS UNLESS OTHERWISE NOTED.
- 5. WHEN LAPPING LARGER BAR WITH SMALLER BAR, LAP LENGTH FOR SMALLER BAR SHALL GOVERN RESPECTIVE SPLICE.
- 6. SPLICE CONTINUOUS TOP REINFORCING BARS AT CENTER OF CLEAR SPAN WITH COMPRESSION SPLICES.
- 7. SPLICE CONTINUOUS BOTTOM REINFORCING BARS AT CENTER OF SUPPORTING ELEMENT WITH COMPRESSION SPLICES.
- 8. ALL SPLICE LENGTHS NOTED IN INCHES.

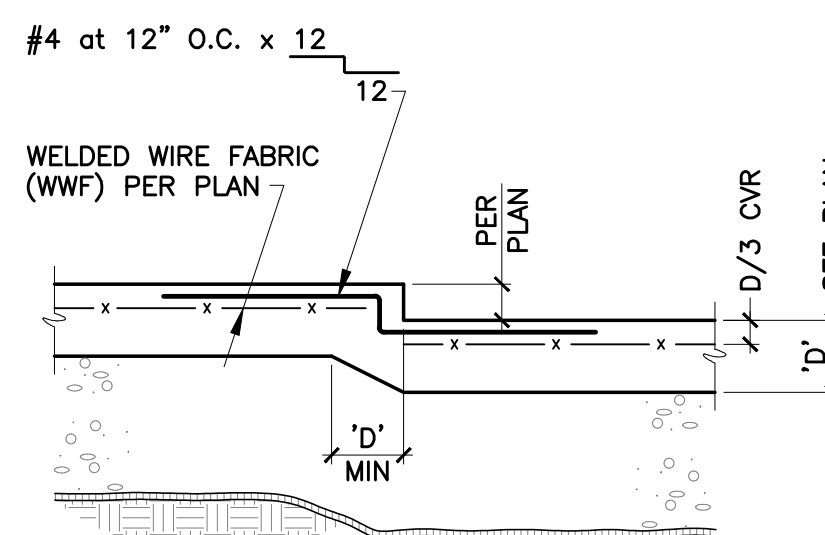


3 REINFORCING at OPENINGS IN CONCRETE WALLS (4'-0" SQ. MAXIMUM OPENING SIZE)

1 WALL CONSTRUCTION JOINT



MEP SUBCONTRACTOR TO COORDINATE WITH CONTRACTOR ALL PENETRATIONS, SLEEVES, ETC. NO PENETRATIONS OR SLEEVES SHALL BE CORED OR FIELD CUT WITHOUT THE EXPRESS APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD. PROVIDE ADD'L GRADE BEAM REINFORCING PER TYP. DETAIL



4 TYPICAL SLEEVE SPACE DETAIL IN FNDN WALL

2 DEPRESSED SLAB ON GRADE DETAIL (DEPTH LESS THAN TOTAL SLAB THICKNESS)

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PREPARED FOR

Town of Clarence 6221 Goodrich Road Clarence Center, NY 14032

PROJECT NAME
CLARENCE TOWN PARK VETERANS MEMORIAL
 10405 MAIN STREET
 CLARENCE, NY

DRAWING NAME
TYPICAL DETAILS & GENERAL NOTES FOUNDATIONS & FOUNTAIN SLABS

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DRAWING No

C105

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ELECTRICAL SYMBOLS LEGEND

NOT ALL SYMBOLS MAY BE REPRESENTED ON DRAWINGS

Table with 2 columns: Symbol/Designation and Description. Includes symbols for Power Symbols (HOMERUN TO PANELBOARD, JUNCTION BOX, CONDUIT/WIRE BREAK, CONDUIT STUB OUT, CONDUIT STUB-DOWN, CONDUIT STUB-UP), Motor (ELECTRIC MOTOR), Receptacle (SIMPLEX, DUPLIX, QUAD), and other electrical components.

GENERAL NOTES TO ELECTRICAL SYMBOLS LEGEND:

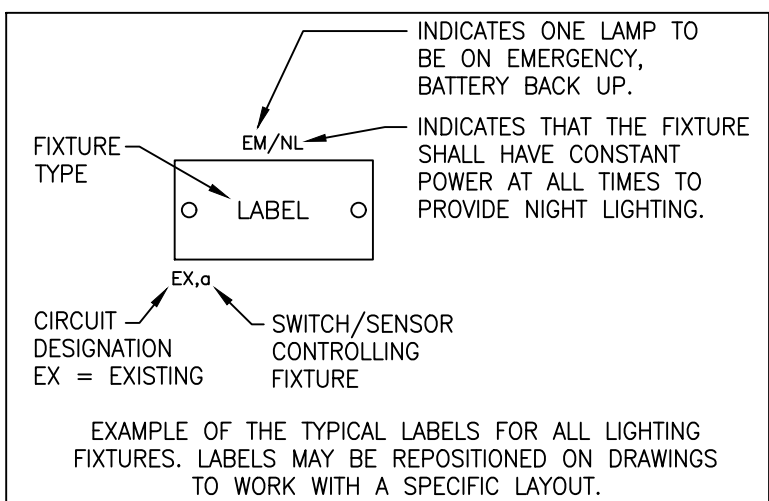
- a. UTILIZE TYPE "MC" CABLE IN CONCEALED AREAS UNLESS NOTED OTHERWISE. EXPOSED ELECTRICAL WORK SHALL BE INSTALLED WITHIN CODE SIZED CONDUIT WITH STEEL SET SCREW FITTINGS.
b. MULTIWIRE BRANCH CIRCUITS SHALL BE INSTALLED PER ALL REQUIREMENTS OF N.E.C. ARTICLE 210.4. HANDLE TIES MUST BE INSTALLED TO IDENTIFY SINGLE-POLE, MULTIWIRE BRANCH CIRCUITS PER ALL REQUIREMENTS OF N.E.C. ARTICLE 240.15(B).
c. ALL STANDARD RECEPTACLES SHALL BE INSTALLED 18" A.F.F., TO CENTER OF BOX, FLUSH TO FINISHED WALL, UNLESS OTHERWISE NOTED.
d. ALL INTERIOR GFI RECEPTACLES SHALL BE INSTALLED 44" A.F.F., TO CENTER OF BOX/ABOVE COUNTER TOP, FLUSH TO FINISHED WALL, UNLESS OTHERWISE NOTED. COORDINATE INSTALLATION HEIGHT WITH ARCHITECTURAL MILLWORK/ELEVATION PLANS WHEN APPLICABLE.
e. ALL EXTERIOR GFI RECEPTACLES SHALL BE INSTALLED HORIZONTALLY 24" A.F.F., TO CENTER OF BOX, FLUSH TO FINISHED WALL, UNLESS OTHERWISE NOTED. PROVIDE A WEATHERPROOF COVERPLATE FOR EXTERIOR USE.
f. ALL TOGGLE SWITCHES, DIMMERS, KEYPAD SWITCHES ETC... SHALL BE INSTALLED 48" A.F.F., TO CENTER OF BOX, FLUSH TO FINISHED WALL, UNLESS OTHERWISE NOTED.
g. ELECTRICAL DEVICES WITHIN HANDICAP ACCESSIBLE ROOMS SHALL BE INSTALLED AT HEIGHTS PER ADA REQUIREMENTS.
h. COMMUNICATION DEVICES (IE: TELEPHONE, DATA, CATV) SHALL BE INSTALLED 18" A.F.F., TO CENTER OF BOX, FLUSH TO FINISHED WALL, UNLESS OTHERWISE NOTED.
i. FIRE ALARM DEVICES SHALL BE INSTALLED AS NOTED IN INDIVIDUAL DESCRIPTIONS.

LIGHTING FIXTURE SCHEDULE

Table with 6 columns: SYMBOL/DESIGNATION, DESCRIPTION, LAMP (QTY, TYPE/COLOR), VOLT, VA, MOUNTING, MANUFACTURER/MODEL #. Lists various lighting fixture specifications.

GENERAL NOTES TO LIGHTING FIXTURE SCHEDULE

- 1. CONTRACTOR TO VERIFY VOLTAGE SUPPLY TO EACH FIXTURE BEFORE ORDERING.
2. FURNISH ALL FIXTURES COMPLETE WITH LAMPS.
3. ALL LIGHTING FIXTURES SHALL CONFORM, AS A MINIMUM STANDARD, TO THE APPLICABLE PORTIONS OF THE FEDERAL SPECIFICATIONS.
4. EACH LIGHTING FIXTURE SHALL BE SUPPORTED IN ACCORDANCE WITH ALL APPLICABLE CODE REQUIREMENTS.
5. PROVIDE "EARTHQUAKE CLIPS" ON LAY-IN (OR GRID) TROFFERS.
6. WHERE FIXTURES ARE INSTALLED ON DRYWALL CEILINGS, THEY SHALL BE SUPPORTED FROM THE CEILING FRAMING SYSTEM OR THE BUILDING STRUCTURE. SUPPORT FROM DRYWALL IS NOT ACCEPTABLE.
7. FIXTURES DESIGNATED "NL" SHALL BE PROVIDED WITH A CONSTANT POWER CONNECTION IN ORDER TO REMAIN ON AT ALL TIMES.
8. FIXTURES DESIGNATED "EM" SHALL HAVE BATTERY BACKUP FOR EMERGENCY LIGHTING. EMERGENCY LIGHTING BATTERY PACKS SHALL PROVIDE 1-1/2 HOURS OF RELATED LAMP OPERATION.
9. ELECTRICAL CONTRACTOR SHALL VERIFY THE REQUIREMENT OF FLANGE KITS FOR FIXTURES IN ALL AREAS PRIOR TO ORDERING. SEE ARCHITECTURAL DRAWINGS FOR RCP DETAILS.



GENERAL SYMBOLS & ABBREVIATION

NOT ALL ABBREVIATIONS MAY BE REPRESENTED ON DRAWINGS

Table with 2 columns: Symbol/Description and Full Name/Abbreviation. Lists symbols for existing equipment, keynotes, revisions, and various electrical components like GFI, HOA, HVAC, HZ, IG, etc.



Electronic Timer Control - 365-Day Astronomic Electronic Control

Electronic Timer Control - 365-Day Astronomic Electronic Control Item ET90815CR



PRODUCT DESCRIPTION

The ET9080 Series combines powerful and intuitive scheduling with truly maintenance-free convenience. The PC App and Mobile App provide real-time remote control, and the USB connection and Ethernet capabilities enable in-field updates.

FEATURES

- Automatic input voltage selection from 120 to 277 VAC, 50/60 Hz
Over 2,000 events plus holiday schedules
Advanced scheduling including relative events, such as fourth Thursday of November or first week of year
30 A-rated contacts
100-hour superswitcher eliminates the need for batteries
USB connection for uploading, downloading and transferring programs
Easy-to-follow on-screen menus for programming to-the-minute accuracy
Non-volatile memory protects programming indefinitely
Firmware can be upgraded in-field via USB or Ethernet
Internally expandable, in 4-circuit increments, up to 16-circuits for 4, 8, and 12-circuit models
PC App for easy scheduling or control, either remotely or through USB flash drive
Mobile app for real-time status and overrides

APPLICATIONS

- School Districts
Banks
Small Hotels
Franchises
Retail Stores
Municipalities
Parking Lots
Offices

TECHNICAL DATA

Table with 2 columns: Parameter and Value. Includes General (Model Number, Description, UPC Code, Brand, Country of Origin, Warranty, ICC, UNSPC), Control Specifications (Minimum ON/OFF Times, Minimum Pulse Time, Maximum Pulse Time, Maximum ON/OFF Times, Maximum ON/OFF Operations, Setpoint Program Count, ON/OFF Operations, Operation Features).

Technical specifications and other information are subject to change without notice. Images can vary from original.

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Electronic Timer Control - 365-Day Astronomic Electronic Control

Electronic Timer Control - 365-Day Astronomic Electronic Control Item ET90815CR



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Mobile app for real-time status and overrides

APPLICATIONS

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Banks
Small Hotels
Franchises
Retail Stores
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Offices

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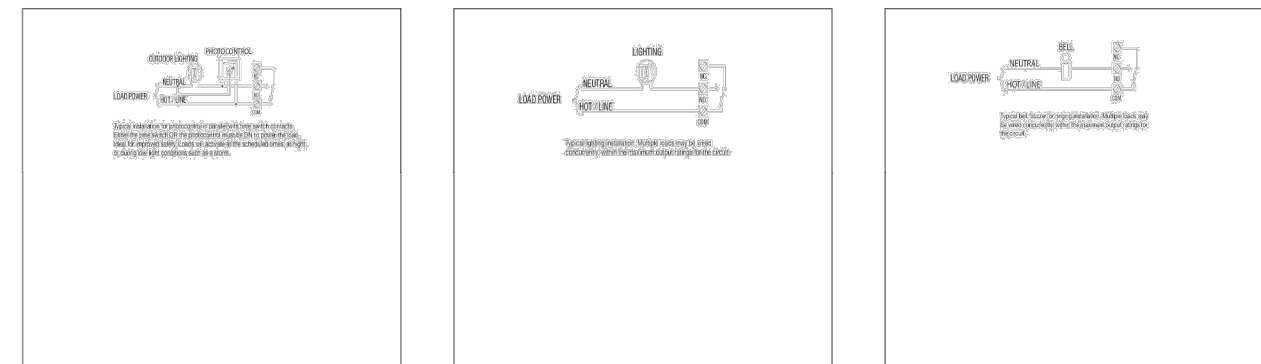
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Electronic Timer Control - 365-Day Astronomic Electronic Control

DIAGRAMS



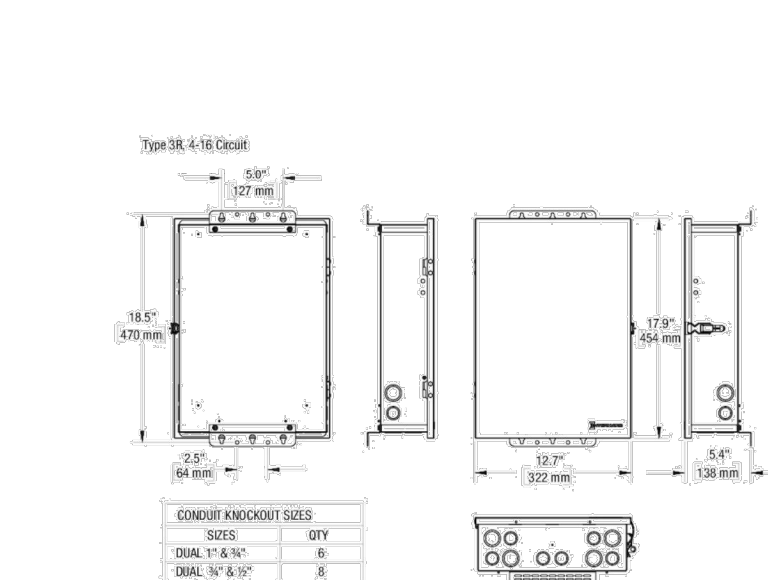
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Electronic Timer Control - 365-Day Astronomic Electronic Control

DIMENSIONAL DRAWINGS



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PREPARED FOR

Town of Clarence 6221 Clarence Road Clarence Center, NY 14032



PROJECT NAME: CLARENCE TOWN PARK VETERANS MEMORIAL

10405 MAIN STREET CLARENCE, NY

DRAWING NAME: ELECTRICAL SCHEDULES

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E-1

PREPARED FOR

Town of Clarence
6221 Goodrich Road
Clarence Center, NY
14032



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PROJECT NAME
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10405 MAIN STREET
CLARENCE, NY

DRAWING NAME
ELECTRICAL DETAILS

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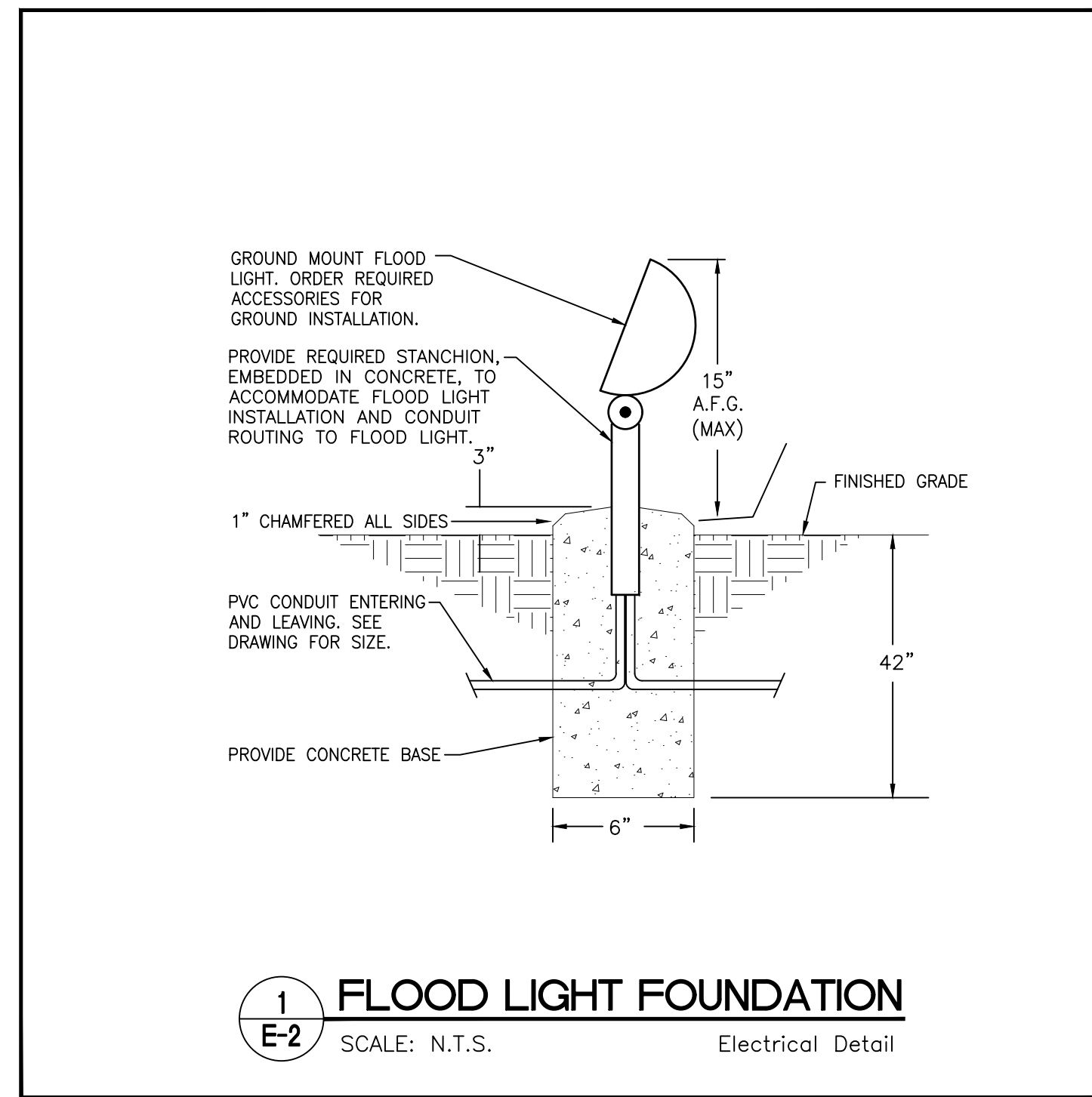
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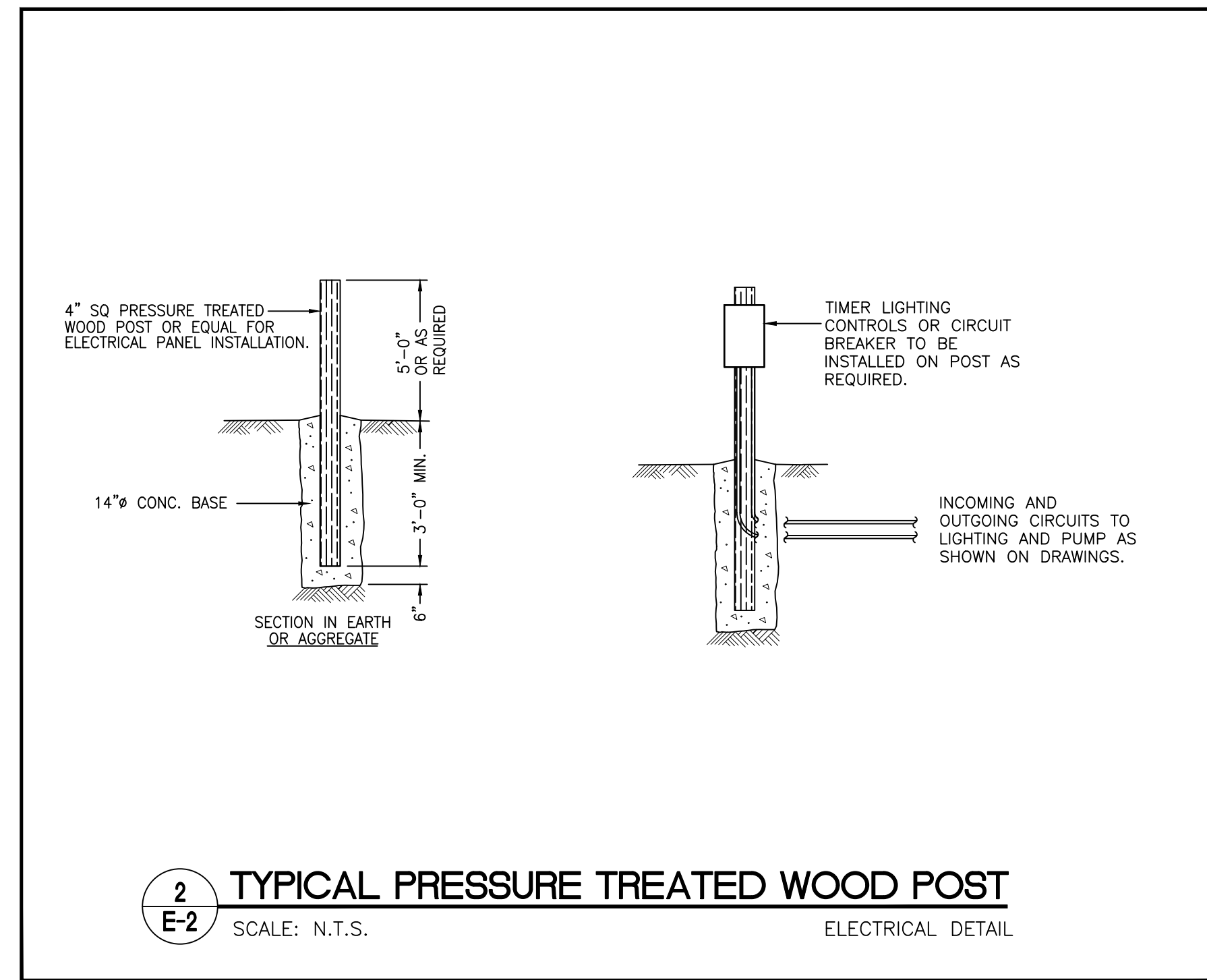
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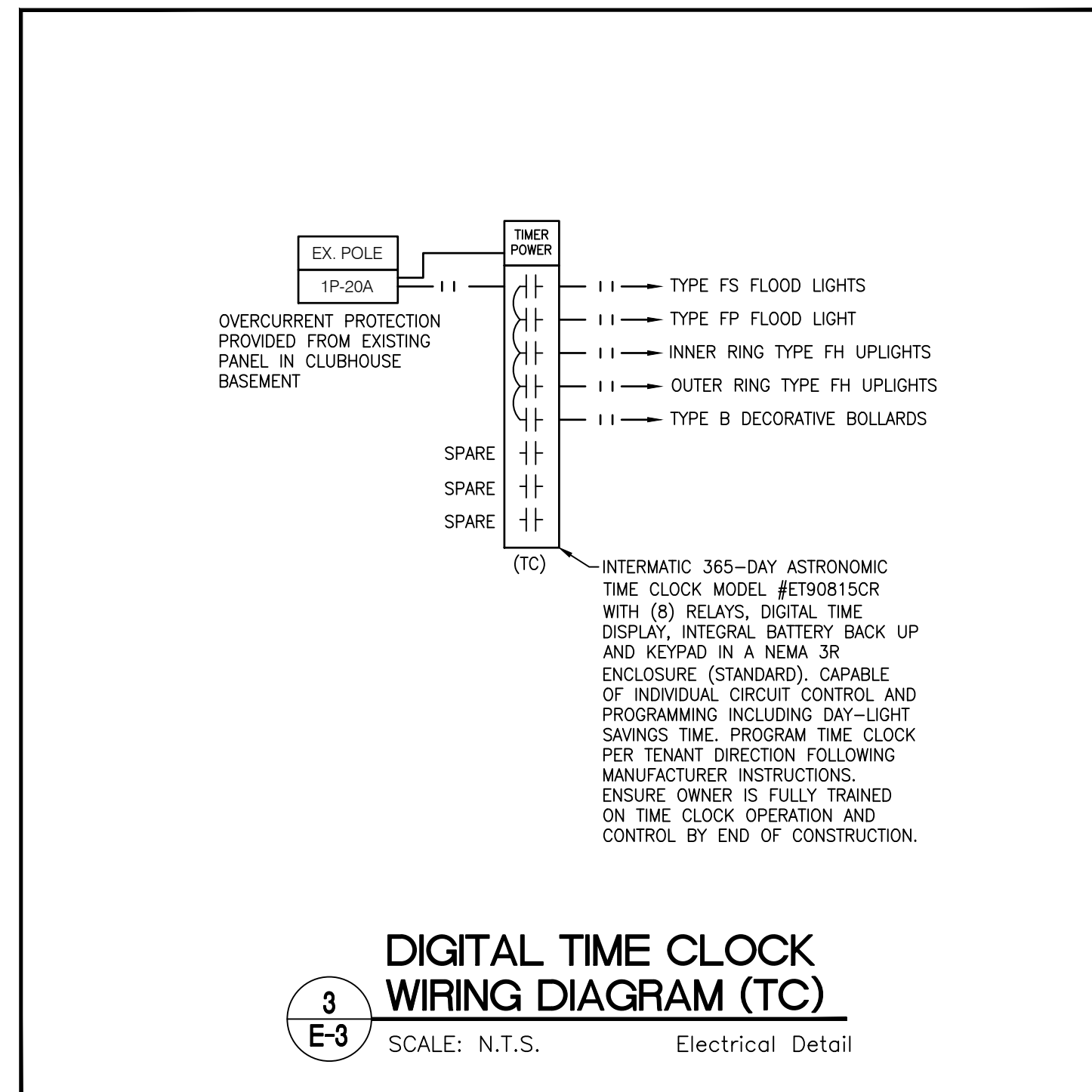
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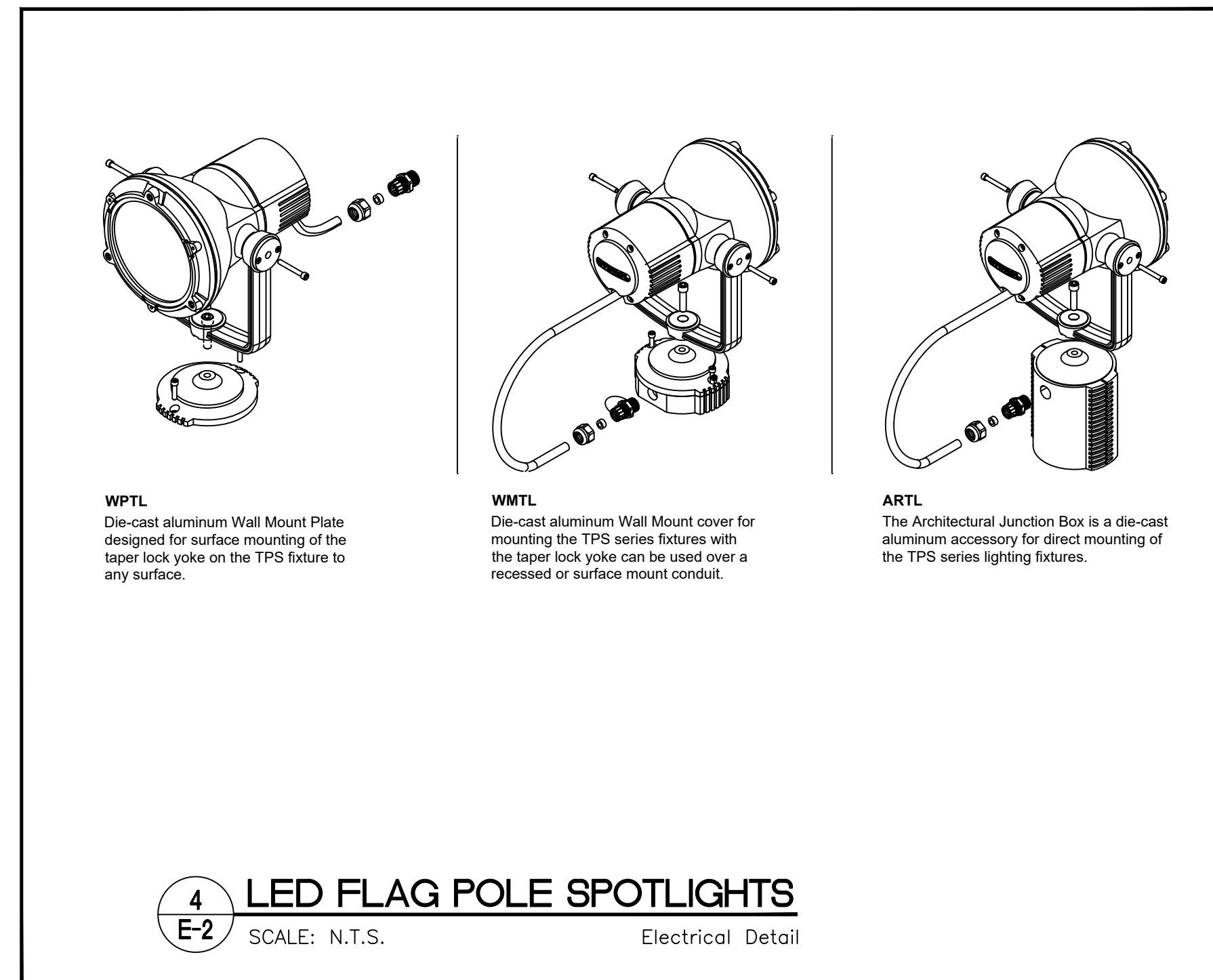
1 FLOOD LIGHT FOUNDATION
E-2 SCALE: N.T.S. Electrical Detail



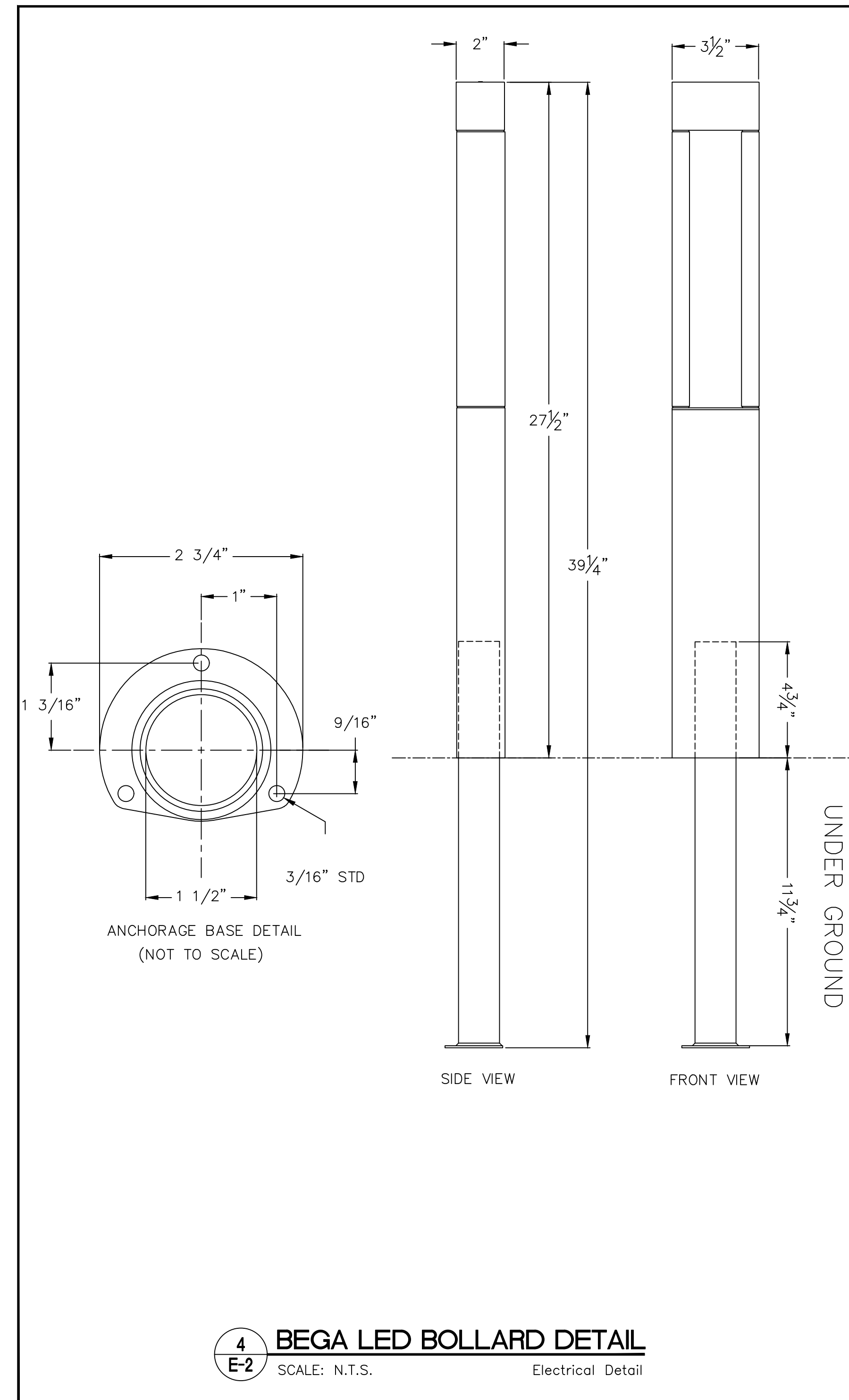
2 TYPICAL PRESSURE TREATED WOOD POST
E-2 SCALE: N.T.S. ELECTRICAL DETAIL



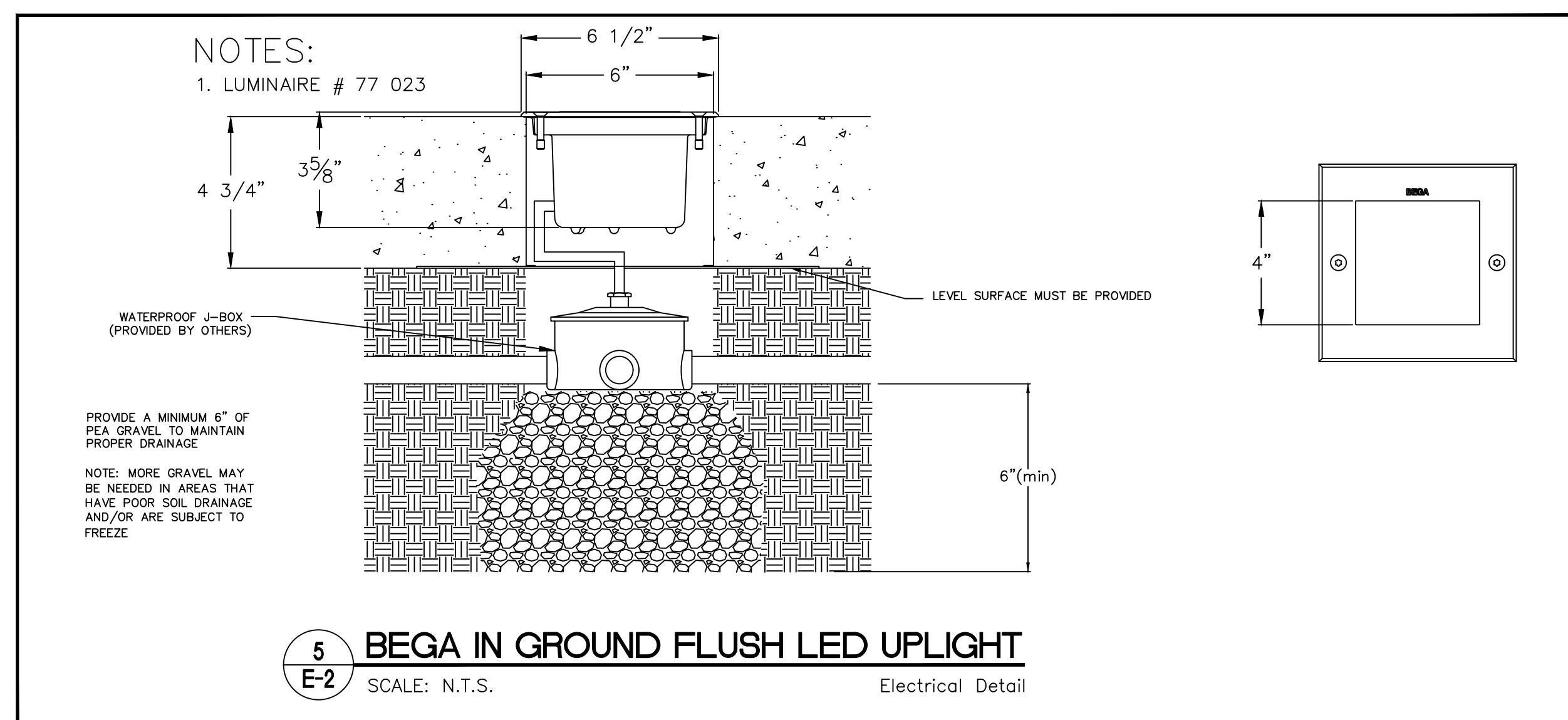
3 DIGITAL TIME CLOCK WIRING DIAGRAM (TC)
E-3 SCALE: N.T.S. Electrical Detail



4 LED FLAG POLE SPOTLIGHTS
E-2 SCALE: N.T.S. Electrical Detail



4 BEGA LED BOLLARD DETAIL
E-2 SCALE: N.T.S. Electrical Detail



5 BEGA IN GROUND FLUSH LED UPLIGHT
E-2 SCALE: N.T.S. Electrical Detail

PREPARED FOR

Town of Clarence
6221 Goodrich Road
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PROJECT NAME
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10405 MAIN STREET
CLARENCE, NY

DRAWING NAME
ELECTRICAL - SITE WORK

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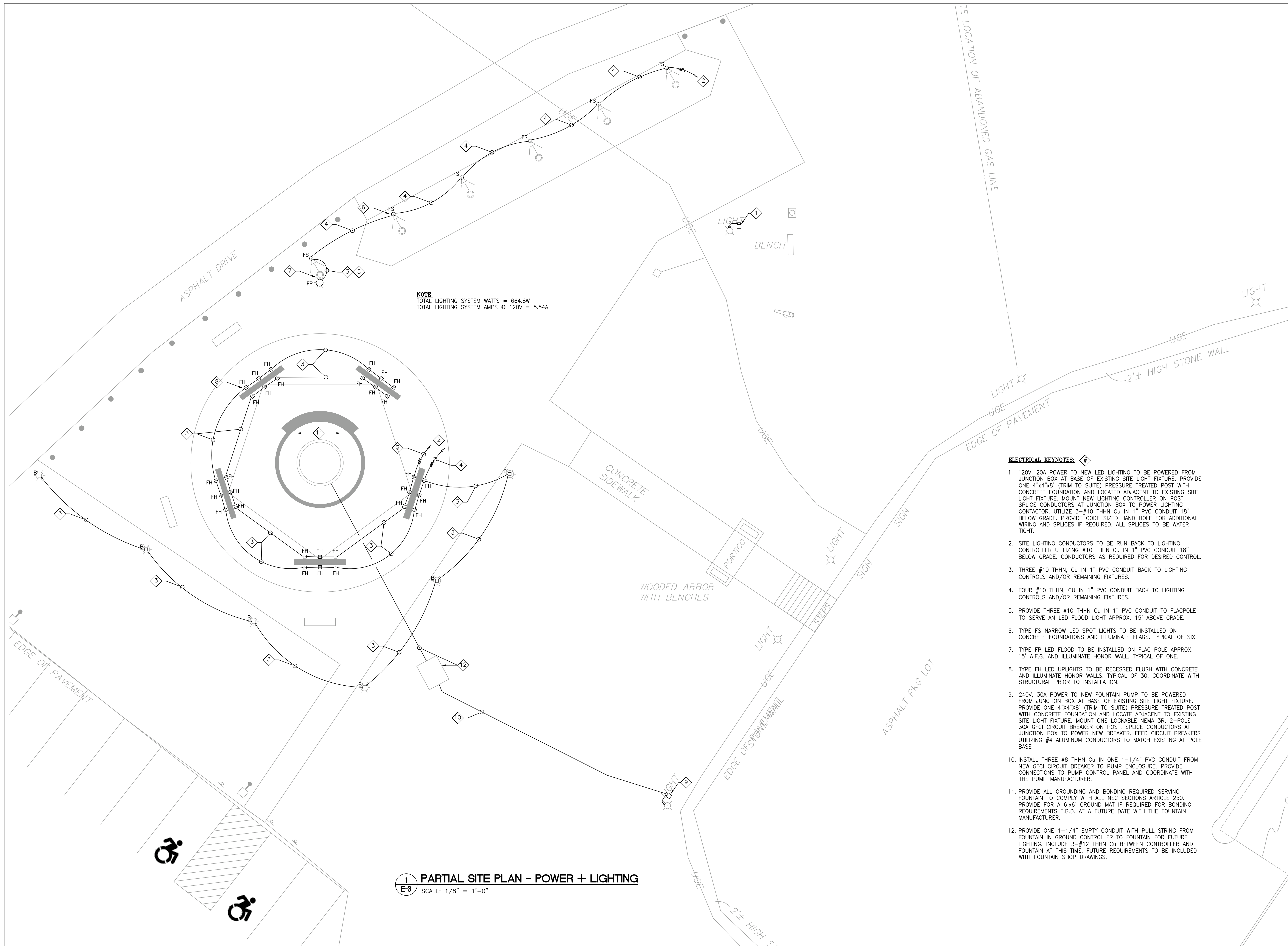
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DRAWING No

E-3



NOTE:
TOTAL LIGHTING SYSTEM WATTS = 664.8W
TOTAL LIGHTING SYSTEM AMPS @ 120V = 5.54A

ELECTRICAL KEYNOTES:

- 120V, 20A POWER TO NEW LED LIGHTING TO BE POWERED FROM JUNCTION BOX AT BASE OF EXISTING SITE LIGHT FIXTURE. PROVIDE ONE 4"x4"x8" (TRIM TO SUITE) PRESSURE TREATED POST WITH CONCRETE FOUNDATION AND LOCATED ADJACENT TO EXISTING SITE LIGHT FIXTURE. MOUNT NEW LIGHTING CONTROLLER ON POST. SPLICE CONDUCTORS AT JUNCTION BOX TO POWER LIGHTING CONTROLLER. UTILIZE 3-#10 THHN CU IN 1" PVC CONDUIT 18" BELOW GRADE. PROVIDE CODE SIZED HAND HOLE FOR ADDITIONAL WIRING AND SPLICES IF REQUIRED. ALL SPLICES TO BE WATER TIGHT.
- SITE LIGHTING CONDUCTORS TO BE RUN BACK TO LIGHTING CONTROLLER UTILIZING #10 THHN CU IN 1" PVC CONDUIT 18" BELOW GRADE. CONDUCTORS AS REQUIRED FOR DESIRED CONTROL.
- THREE #10 THHN, CU IN 1" PVC CONDUIT BACK TO LIGHTING CONTROLS AND/OR REMAINING FIXTURES.
- FOUR #10 THHN, CU IN 1" PVC CONDUIT BACK TO LIGHTING CONTROLS AND/OR REMAINING FIXTURES.
- PROVIDE THREE #10 THHN CU IN 1" PVC CONDUIT TO FLAGPOLE TO SERVE AN LED FLOOD LIGHT APPROX. 15' ABOVE GRADE.
- TYPE FS NARROW LED SPOT LIGHTS TO BE INSTALLED ON CONCRETE FOUNDATIONS AND ILLUMINATE FLAGS. TYPICAL OF SIX.
- TYPE FP LED FLOOD TO BE INSTALLED ON FLAG POLE APPROX. 15' A.F.G. AND ILLUMINATE HONOR WALL. TYPICAL OF ONE.
- TYPE FH LED UPLIGHTS TO BE RECESSED FLUSH WITH CONCRETE AND ILLUMINATE HONOR WALLS. TYPICAL OF 30. COORDINATE WITH STRUCTURAL PRIOR TO INSTALLATION.
- 240V, 30A POWER TO NEW FOUNTAIN PUMP TO BE POWERED FROM JUNCTION BOX AT BASE OF EXISTING SITE LIGHT FIXTURE. PROVIDE ONE 4"x4"x8" (TRIM TO SUITE) PRESSURE TREATED POST WITH CONCRETE FOUNDATION AND LOCATE ADJACENT TO EXISTING SITE LIGHT FIXTURE. MOUNT ONE LOCKABLE NEMA 3R, 2-POLE 30A GFCI CIRCUIT BREAKER ON POST. SPLICE CONDUCTORS AT JUNCTION BOX TO POWER NEW BREAKER. FEED CIRCUIT BREAKERS UTILIZING #4 ALUMINUM CONDUCTORS TO MATCH EXISTING AT POLE BASE.
- INSTALL THREE #8 THHN CU IN ONE 1-1/4" PVC CONDUIT FROM NEW GFCI CIRCUIT BREAKER TO PUMP ENCLOSURE. PROVIDE CONNECTIONS TO PUMP CONTROL PANEL AND COORDINATE WITH THE PUMP MANUFACTURER.
- PROVIDE ALL GROUNDING AND BONDING REQUIRED SERVING FOUNTAIN TO COMPLY WITH ALL NEC SECTIONS ARTICLE 250. PROVIDE FOR A 6"x6" GROUND MAT IF REQUIRED FOR BONDING. REQUIREMENTS T.B.D. AT A FUTURE DATE WITH THE FOUNTAIN MANUFACTURER.
- PROVIDE ONE 1-1/4" EMPTY CONDUIT WITH PULL STRING FROM FOUNTAIN IN GROUND CONTROLLER TO FOUNTAIN FOR FUTURE LIGHTING. INCLUDE 3-#12 THHN CU BETWEEN CONTROLLER AND FOUNTAIN AT THIS TIME. FUTURE REQUIREMENTS TO BE INCLUDED WITH FOUNTAIN SHOP DRAWINGS.

1 PARTIAL SITE PLAN - POWER + LIGHTING
SCALE: 1/8" = 1'-0"

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