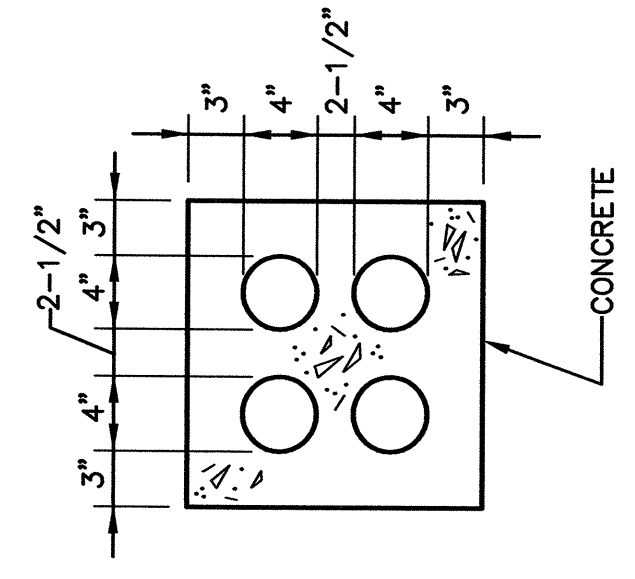
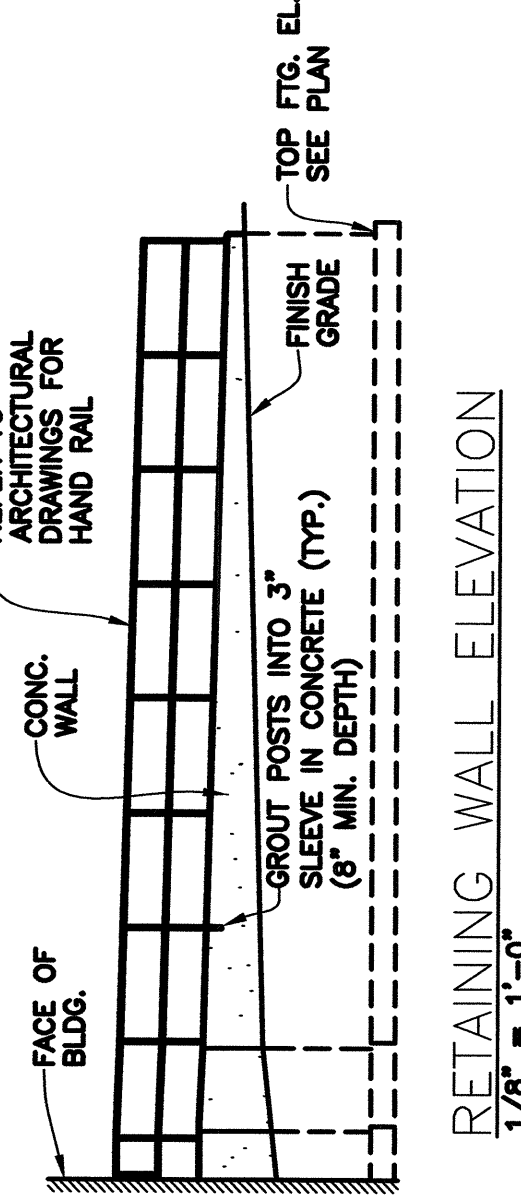


NOTES:
 1. (65.0) INDICATES TOP OF FOOTING ELEVATION.
 2. (1) INDICATES DIRECTION OF SLOPE.

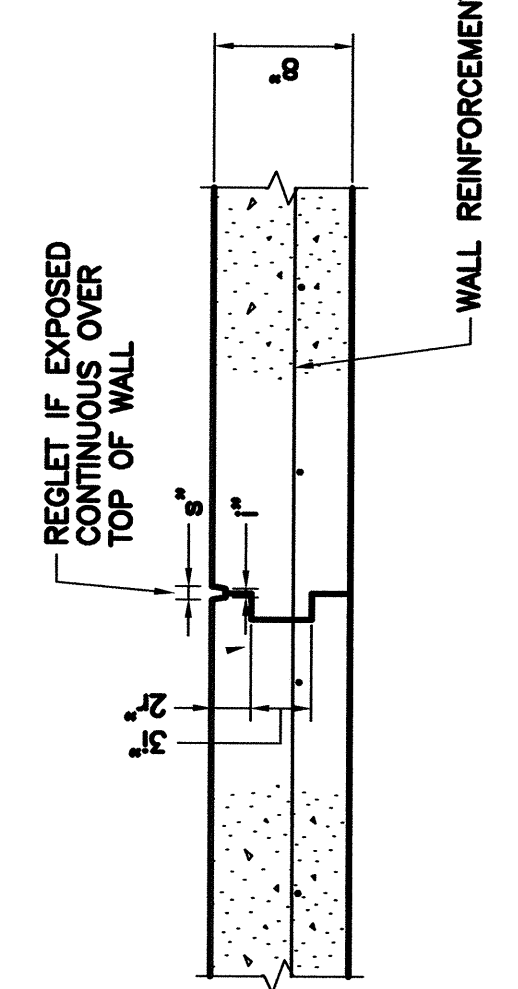
PARTIAL PLAN/RETAINING WALL
 1/8" = 1'-0"



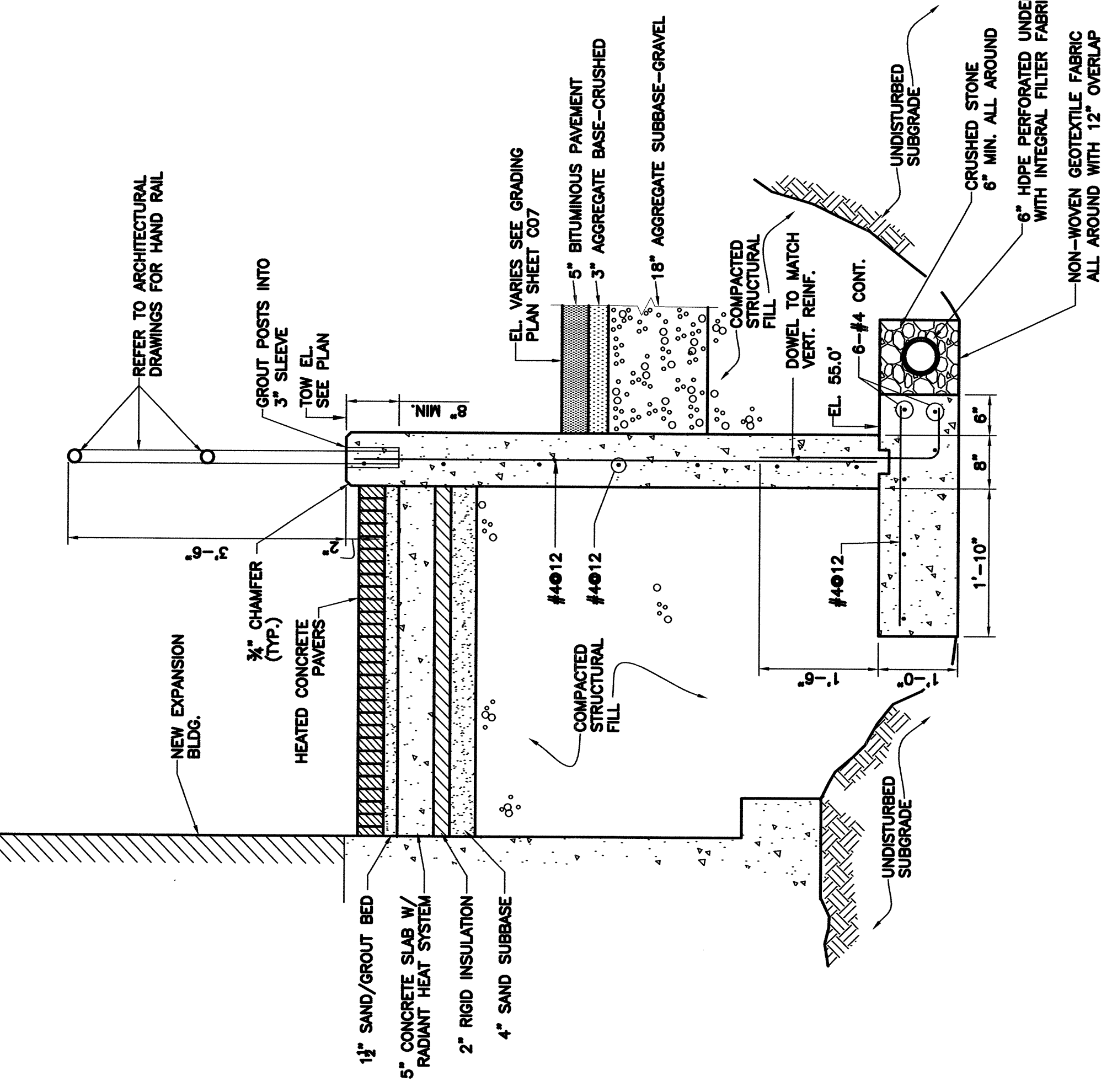
4-WAY ELECTRICAL DUCT
 1/8" = 1'-0"



RETAINING WALL ELEVATION
 1/8" = 1'-0"



WALL CONSTRUCTION JOINT
 DETAIL FOR 8" WALL
 NOT TO SCALE



SECTION 1
 3/4" = 1'-0"

GENERAL NOTES

- NO CONCRETE SHALL BE PLACED IN WATER OR ON FROZEN GROUND.
- EXTERIOR GRADE CONSTRUCTION SHALL BE CARRIED DOWN A MINIMUM OF 5'-0" BELOW FINISHED EXTERIOR GRADE.
- ALL FOUNDATIONS SHALL BEAR ON UNDISTURBED SOIL WITH A BEARING CAPACITY OF NOT LESS THAN 1.5 TONS PER SQUARE FOOT.
- REINFORCING BARS SHALL BE INSPECTED AND APPROVED BY THE ENGINEER OR HIS DESIGNEE BEFORE ANY CONCRETE IS PLACED.
- ALL BACKFILL UNDER OR ADJACENT TO ANY PORTION OF THE STRUCTURES SHALL BE COMPACTED IN 12" LIFTS. SEE SPECIFICATIONS.

CONCRETE

- CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATIONS, THE LATEST EDITION OF THE ACI BUILDING CODE (ACI 318) AND ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, AND TO THE NATIONAL BUILDING CODE, IN CASE OF CONFLICT, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN.
- CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ASTM C94.
- PROVIDE REVELED KEYS AT ALL CONSTRUCTION JOINTS.
- AT LEAST 48 HOURS SHALL ELAPSE BEFORE DEPOSITING OF NEW CONCRETE AGAINST PREVIOUSLY PLACED CONCRETE.
- ALL CONCRETE SHALL ATAIN 4,000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS.

REINFORCING

- ALL REINFORCING BAR DETAILS SHALL CONFORM TO THE LATEST ACI CODE AND DETAILING MANUAL, EXCEPT AS OTHERWISE SPECIFIED.
- ALL REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 EXCEPT TIES AND STIRRUPS GRADE 40. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 AND SHALL BE PROVIDED IN FLAT SHEETS.
- CONCRETE SHALL BE PLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND THE MORE STRINGENT REQUIREMENTS SHALL GOVERN.
- ALL BARS, EXCEPT AS OTHERWISE NOTED, SHALL BE CONTINUOUSLY AROUND CORNERS AND LAPSPICES, AND HOOKED AT DISCONTINUOUS ENDS. LAPS SHALL BE 30-BAR DIAMETER LAPPED AT 90 DEGREES.
- THE CONCRETE PROTECTIVE COVERING FOR MAIN REINFORCEMENT SHALL BE, UNLESS SHOWN OTHERWISE:
 - FOOTING BOTTOMS, 3 INCHES.
 - VERTICAL WALLS, 2 INCHES.
 - SLABS EXPOSED TO THE WEATHER, 1 INCH.
- ALL CONCRETE, UNLESS SPECIFICALLY NOTED TO BE PLAIN CONCRETE, SHALL BE REINFORCED.
- ALL REINFORCING SHALL BE INSPECTED AND APPROVED BY THE ENGINEER OR HIS DESIGNEE BEFORE CONCRETE IS PLACED.

MISCELLANEOUS

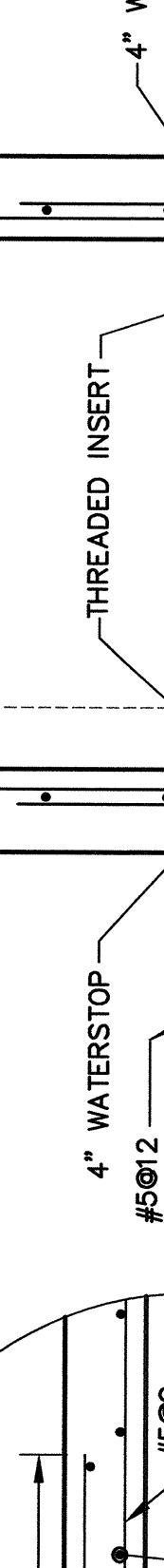
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE JOB SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING AND BRACING AND SHALL SUBMIT HIS METHODS TO THE ENGINEER PRIOR TO THE START OF WORK.
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS, THE LATEST EDITION OF THE NATIONAL BUILDING CODE, IN CASE OF CONFLICT, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN.
- DO NOT SCALE FROM DRAWINGS.

LIST OF ABBREVIATIONS

SYMBOL	DESCRIPTION
HP	HIGH POINT
LP	LOW POINT
MS	MASONRY
OC	ON CENTER
PT	FOOTING
FF	FINISH FLOOR
FIN	FINISH
FIN	FINISH

UTILITY MANHOLE CONSTRUCTION SEQUENCE

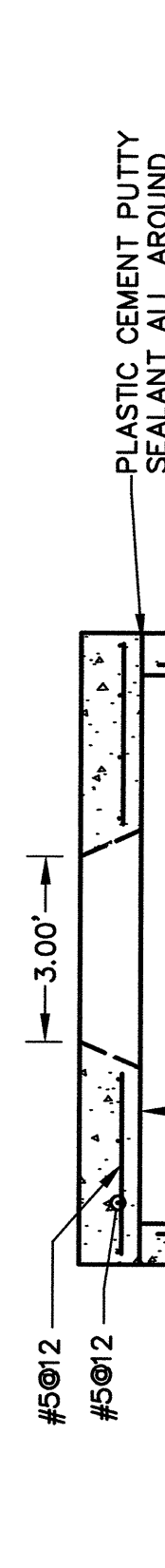
- EXCAVATE AROUND EXISTING 4'-0" AND 36" UTILITY MANHOLE TO SUFFICIENT DEPTH TO INSTALL CRUSHED STONE BASE AS SHOWN. THE CONTRACTOR SHALL TAKE CARE WHEN EXCAVATING AROUND EXISTING DUCT BANKS AND SHALL NOT DISTURB ANY ACTIVE UTILITIES.
- INSTALL 12" LAYER OF CRUSHED STONE ON COMPACTED SUBGRADE IN AREAS SHOWN OUTSIDE OF EXISTING MANHOLES.
- PLACE CONCRETE FOOTINGS AS SHOWN AND 8" MIN. CONCRETE FLOOR TO LIMITS OF EXISTING MANHOLES.
- INSTALL CONCRETE WALL FORMS TO CONSTRUCT MANHOLE OF MINIMUM DIMENSIONS SHOWN. UTILIZE EXTERIOR OF EXISTING MANHOLES AS INTERIOR FORMS WHERE POSSIBLE. WALLS SHALL BE CAST AROUND EXISTING AND PROPOSED DUCT BANKS AS SHOWN.
- UPON COMPLETION OF MANHOLE FLOOR AND WALLS, DEMOLITION OF EXISTING MANHOLES MAY COMENCE. CONTRACTOR SHALL TAKE CARE WHEN DEMOLISHING EXISTING MANHOLES SO AS NOT TO INTERRUPT ACTIVE UTILITIES. DEMOLITION SHALL INCLUDE REMOVAL OF EXISTING MANHOLE WALLS DOWN TO 1'-8" BELOW PROPOSED FLOOR SLAB ELEVATION, CUTTING BACK OF EXISTING DUCT BANKS TO NEW MANHOLE WALL, AND REMOVAL OF ANY DEBRIS WITHIN THE EXISTING MANHOLE SUMPS.
- PLACE COMPACTED STRUCTURAL FILL WITHIN EXISTING MANHOLES SUMPS TO RAISE EVEN WITH BOTTOM OF PROPOSED FLOOR SLAB ELEVATION. PLACE REMAINDER OF CONCRETE FLOOR SLAB AND PITCH FLOOR TO SUMP DRAIN.
- PLACE PRECAST REINFORCED CONCRETE TOP (12" MIN.) WITH 35% OPENING AS SHOWN. TOP SHALL BE ABLE TO WITHSTAND H-20 LOADING.
- RAISE FRAME AND COVER TO PROPOSED GRADE WITH 1" OF 5000 PSI GROUT AND BRICKS. REFER TO TYPICAL CATCHBASIN/MANHOLE DETAIL ON SHEET C11. MANHOLE COVER SHALL BE LABELED "74/C".
- UPON COMPLETION OF MANHOLE STRUCTURE, INSTALL 6" HDPE UNDERDRAINS AND BACKFILL AROUND MANHOLE WITH COMPACTED STRUCTURAL FILL IN ACCORDANCE WITH THE PHASING PLAN SHEET C05.



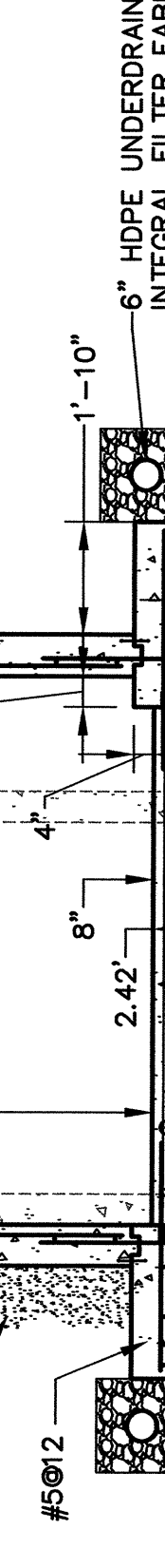
FOOTING DETAIL
 NOT TO SCALE



CORNER REINFORCEMENT DETAIL
 NOT TO SCALE



SECTION VIEW 2
 1/8" = 1'-0"



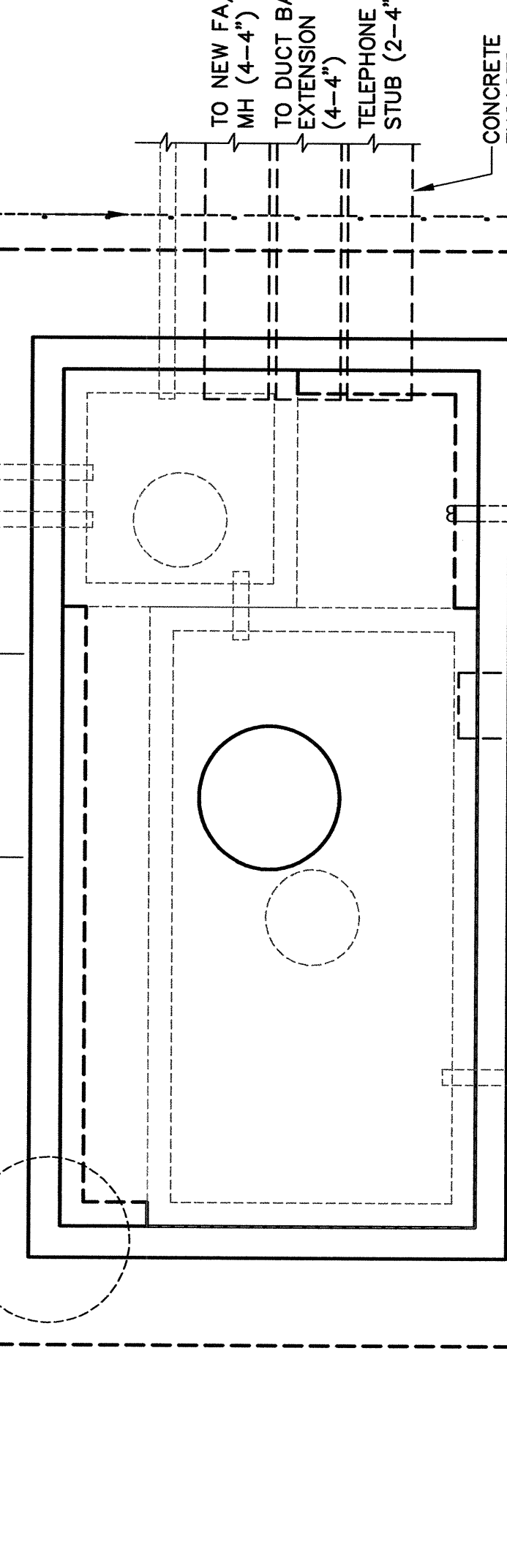
PLAN VIEW
 NOT TO SCALE



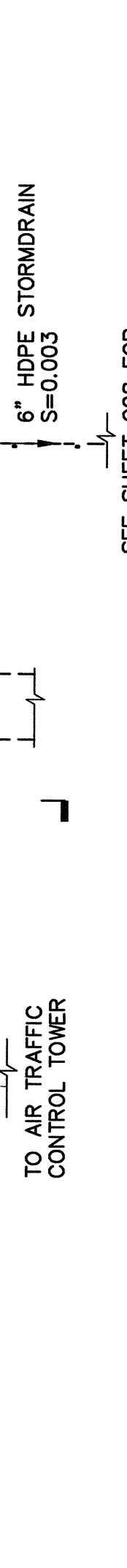
SIDE SECTION VIEW
 NOT TO SCALE

PRECAST ELECTRICAL / COMMUNICATIONS MANHOLE

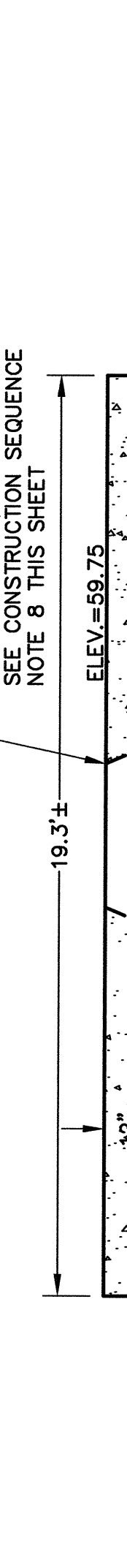
ONE PRECAST ELECTRICAL AND ONE PRECAST COMMUNICATIONS MANHOLE SHALL BE SUPPLIED BY THE OWNER. THE CONTRACTOR SHALL FURNISH FRAME AND COVER, CABLE PULLING EYES, CABLE RACKS, CONDUIT STUBS AND ALL OTHER MATERIALS NECESSARY TO COMPLETE AND INSTALL THE MANHOLES IN ACCORDANCE WITH THE SPECIFICATIONS AND CONTRACT DRAWINGS.



PLAN VIEW
 NOT TO SCALE



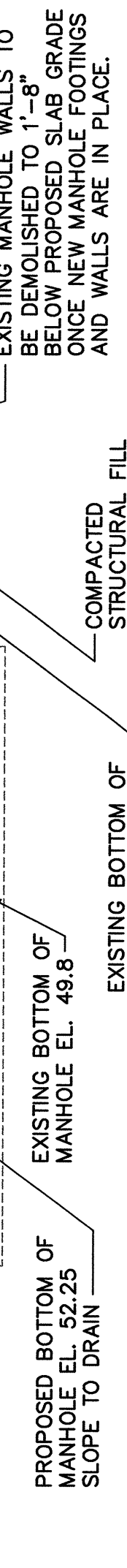
SIDE SECTION VIEW
 NOT TO SCALE



SECTION VIEW 2
 1/8" = 1'-0"



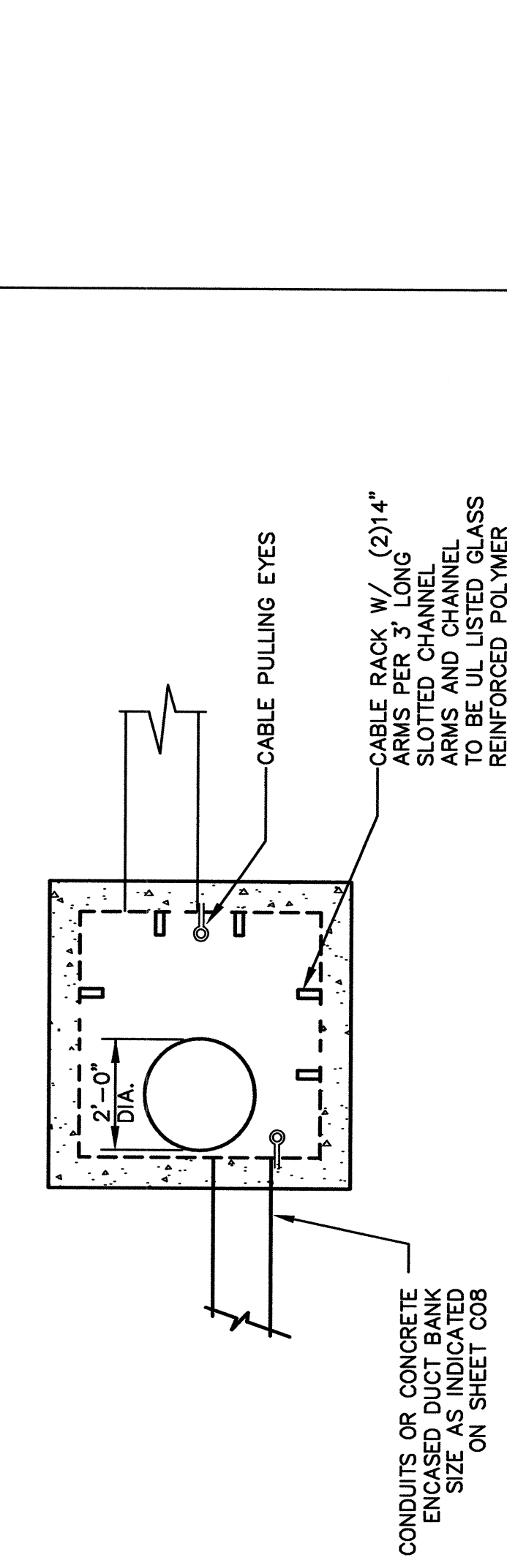
FOOTING DETAIL
 NOT TO SCALE



CORNER REINFORCEMENT DETAIL
 NOT TO SCALE

CAST-IN-PLACE COMMUNICATIONS MANHOLE

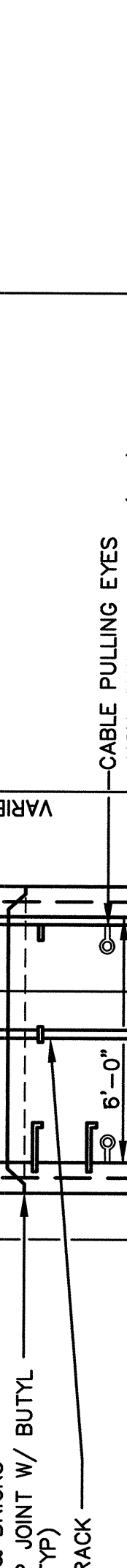
EXISTING MANHOLE WALLS TO BE DEMOLISHED TO 6" BELOW PROPOSED SLAB GRADE. ONCE NEW MANHOLE FOOTINGS AND WALLS ARE IN PLACE,



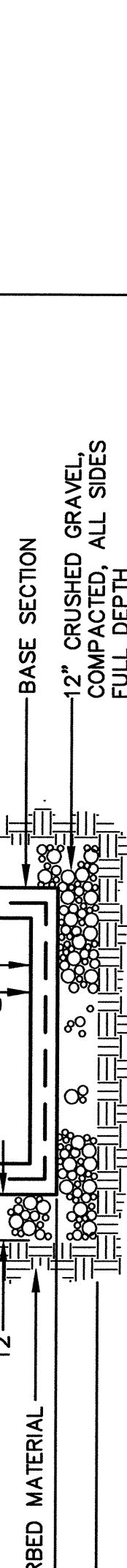
PLAN VIEW
 NOT TO SCALE



SIDE SECTION VIEW
 NOT TO SCALE



SECTION VIEW 2
 1/8" = 1'-0"



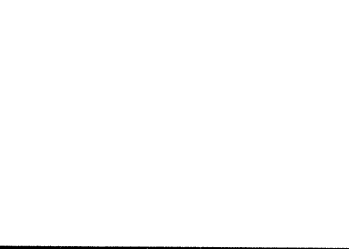
FOOTING DETAIL
 NOT TO SCALE



CORNER REINFORCEMENT DETAIL
 NOT TO SCALE

CAST-IN-PLACE COMMUNICATIONS MANHOLE

EXISTING MANHOLE WALLS TO BE DEMOLISHED TO 6" BELOW PROPOSED SLAB GRADE. ONCE NEW MANHOLE FOOTINGS AND WALLS ARE IN PLACE,



ADDITIONS AND ALTERATIONS
 EASTLEY EXPANSION OF BAGGAGE CLAIM FACILITY
 PORTLAND INTERNATIONAL AIRPORT, PORTLAND, MAINE
 PLAY SECTIONS AND DETAILS
 & SITE UTILITY DETAILS

DESIGNED BY: PHILIP J. DOUGHTY
 DATE: FEBRUARY 1, 2009
 SCALE: AS SHOWN

DRAWN BY: PHILIP J. DOUGHTY
 CHECKED BY: PHILIP J. DOUGHTY
 APPROVED BY: PHILIP J. DOUGHTY

PROJECT NO.: 090203
 SHEET NO.: 9



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