ESIGN AGENCY

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DESIGNER
MDO
REVIEWER
AR 09-08-20
PROJECT ID
113330

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SHEET TOTAL
9 91

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ESIGN AGENCY	
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REVIEWER AR 12/4/2020

PROJECT ID 113330 SHEET TOTAL 91

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TOTALS CARRIED TO GENERAL SUMMARY

BPT

AR 12/4/2020

### **GROUNDING AND BONDING**

THE REQUIREMENTS OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS) AND THE TC SERIES OF STANDARD CONSTRUCTION DRAWINGS ARE MODIFIED AS FOLLOWS:

- 1. ALL METALLIC PARTS CONTAINING ELECTRICAL CONDUCTORS SHALL BE PERMANENTLY JOINED TO FORM AN EFFECTIVE GROUND FAULT CURRENT PATH BACK TO THE GROUNDED CONDUCTOR IN THE POWER SERVICE DISCONNECT SWITCH.
- A. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR IN METALLIC CONDUITS (725.04) IN ADDITION TO THE CONDUCTORS SPECIFIED AND BOND THE CONDUIT TO THIS GROUNDING CONDUCTOR.
- B. WHEN AN EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED IN PLASTIC CONDUIT (725.05), THE INSTALLATION SHALL INCLUDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN ADDITION TO THE CONDUCTORS SPECIFIED.
- C. METALLIC CONDUIT CARRYING THE LOOP WIRES FROM IN THE PAVEMENT TO THE PULL BOX SPLICE LOCATION WILL ONLY BE BONDED AT THE PULL BOX END. AND WILL NOT CONTAIN AN EQUIPMENT GROUNDING CONDUCTOR.
- D. IF MULTIPLE CONDUIT RUNS BEGIN AND END AT THE SAME POINTS. ONLY ONE EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED.
- E. IF AN EQUIPMENT GROUNDING CONDUCTOR IS NEEDED IN CONDUIT BETWEEN SIGNALIZED INTERSECTIONS FOR UNDERGROUND INTERCONNECT CABLE, THE GROUNDING SYSTEM FOR EACH SIGNALIZED INTERSECTION WILL BE SEPARATED ABOUT MIDWAY BETWEEN THE INTERSECTIONS.
- F. THE MESSENGER WIRE AT SIGNALIZED INTERSECTIONS WILL BE USED AS THE CONDUCTIVE PATH FROM CORNER TO CORNER IF CONDUIT IS NOT PROVIDED UNDER THE ROADWAY. WHEN CONDUIT CONNECTS THE CORNERS OF AN INTERSECTION, AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE USED IN THE CONDUIT.

## 2. CONDUITS.

- A. THE 725.04 CONDUIT SHALL HAVE GROUNDING BUSHINGS INSTALLED AT ALL TERMINATION POINTS. THE BUSHING MATERIAL SHALL BE COMPATIBLE WITH GALVANIZED STEEL CONDUIT AND THE GROUNDING LUG MATERIAL SHALL BE COMPATIBLE FOR USE WITH COPPER WIRE THREADED OR COMPRESSION TYPE BUSHINGS MAY BE USED.
- B. THE 725.05 CONDUIT SHALL HAVE THE INSIDE AND OUTSIDE DIAMETERS OF THE CONDUIT DEBURRED AT ALL TERMINATION POINTS.
- C. BOTH ENDS OF METALLIC CONDUIT SHALL BE BONDED TO THE EQUIPMENT GROUNDING CONDUCTOR.
- D. METALLIC CONDUIT MAY BE BONDED TO METALLIC BOXES THROUGH THE USE OF CONDUIT FITTINGS UL APPROVED FOR THIS TYPE OF CONNECTION, WITH THE BOX BONDED TO THE EQUIPMENT GROUNDING CONDUCTOR.

### **GROUNDING AND BONDING (CONT'D)**

- 3. WIRE FOR GROUNDING AND BONDING.
- A. USE INSULATED. COPPER WIRE FOR THE EQUIPMENT GROUNDING CONDUCTOR. BONDING JUMPERS IN BOXES AND ENCLOSURES MAY BE BARE OR INSULATED COPPER WIRE. WIRE SIZE SHALL BE AS FOLLOWS:
- I. USE 4 AWG BETWEEN THE POWER SERVICE AND SUPPORTS, POLES, PEDESTALS, CONTROLLER OR FLASHER CABINETS.
- II. USE A MINIMUM 8 AWG BETWEEN LOOP DETECTOR PULL BOXES AND THE FIRST CONDUIT THAT REQUIRES A LARGER SIZE AS SPECIFIED IN 3.A.I ABOVE.
- III. USE A MINIMUM 8 AWG BETWEEN THE "PREPARE TO STOP WHEN FLASHING" INSTALLATION (INCLUDING SUPPORT) AND THE FIRST CONDUIT THAT REQUIRES A LARGER SIZE AS SPECIFIED IN 3.A.I ABOVE.
- IV. THE INSULATION SHALL BE GREEN OR GREEN WITH YELLOW STRIPE(S), FOR 4 AWG OR LARGER, INSULATION MAY ALSO BE BLACK WITH GREEN TAPE/LABELS INSTALLED AT ALL ACCESS POINTS.
- B. IN A HIGHWAY LIGHTING SYSTEM, THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE THE SAME WIRE SIZE AS THE DUCT CABLE OR DISTRIBUTION CABLE CIRCUIT CONDUCTORS, WITH THE MINIMUM CONDUCTOR SIZE OF 4 AWG. BONDING JUMPERS WILL BE MINIMUM SIZE 4 AWG

#### 4. GROUND ROD.

- A. A 3/4-INCH SCHEDULE 40 PVC CONDUIT WILL BE USED IN FOUNDATIONS AND CONCRETE WALLS FOR THE GROUNDING CONDUCTOR (GROUND WIRE) RACEWAY TO THE GROUND ROD. SHOULD METALLIC CONDUIT BE USED, BOTH ENDS OF THE CONDUIT SHALL BE BONDED TO THE GROUNDING CONDUCTOR.
- B. THE TYPICAL GROUNDING CONDUCTOR (GROUND WIRE) SHALL BE 4 AWG INSULATED, COPPER.
- 5. THE GREEN CONDUCTOR IN SIGNAL CABLES (CONDUCTOR #4) SHALL NOT BE USED TO SUPPLY POWER TO A SIGNAL INDICATION. IT WILL BE CONNECTED TO THE SIGNAL BODY AS AN EQUIPMENT GROUND IN ALUMINUM HEADS AND IT WILL BE UNUSED IN PLASTIC HEADS. UNUSED CONDUCTORS SHALL BE GROUNDED IN THE CABINET. TYPICAL USE OF CONDUCTORS IS AS FOLLOWS:

VEHICLE SIGNAL PEDESTRIAN SIGNAL COND. NO. COLOR

- GREEN BALL #1 WALK BLACK
- WHITE AC NEUTRAL AC NEUTRAL
- RFD RED BALL #1 DW/FDW .3
- GREEN EQUIPMENT GROUND EQUIPMENT GROUND 4
- 5 ORANGE YELLOW BALL #2 DW/FDW
- GREEN ARROW 6 BLUE #2 WALK
- WHITE/BLACK STRIPE YELLOW ARROW NOT USED

## **GROUNDING AND BONDING (CONT'D)**

- 6. POWER SERVICE AND DISCONNECT SWITCH.
- A. AT THE POWER SERVICE LOCATION, THE GROUNDING CONDUCTOR (GROUND WIRE) FROM THE DISCONNECT SWITCH NEUTRAL (AC-) BAR TO THE GROUND ROD SHALL BE A CONTINUOUS, UNSPLICED CONDUCTOR. IF SPLICED, IT SHALL BE AN EXOTHERMIC WELD BUTT SPLICE.
- B. THE SERVICE NEUTRAL (AC-) SHALL ONLY BE CONNECTED TO GROUND AT THE PRIMARY POWER SERVICE DISCONNECT SWITCH
- I. NEMA CONTROLLER CABINETS: IF A POWER SERVICE DISCONNECT SWITCH IS LOCATED BEFORE THE CONTROLLER CABINET, THE NEUTRAL (AC-) AND THE GROUNDING BARS IN THE CONTROLLER CABINET SHALL NOT BE CONNECTED TOGETHER AS SHOWN IN NEMA TS-2, FIGURE 5-4.
- II. IF SECONDARY DISCONNECT SWITCHES ARE CONNECTED AFTER THE PRIMARY DISCONNECT SWITCH, THE NEUTRAL (AC-) SHALL ONLY BE GROUNDED AT THE PRIMARY SWITCH. EQUIPMENT GROUNDING CONDUCTORS SHALL BE BROUGHT TO THE PRIMARY SWITCH, BUT SHALL BE GROUNDED AT BOTH SECONDARY AND PRIMARY **SWITCHES**
- 7. PAYMENT ALL MATERIALS AND WORK REQUIRED TO COMPLETE THE EFFECTIVE GROUND FAULT CURRENT PATH SYSTEM ARE INCIDENTAL TO THE CONDUCTORS INSTALLED BY CONTRACT.

# **TEST HOLE PERFORMED**

IT IS ANTICIPATED THAT THE CONTRACTOR WILL ENCOUNTER UNDERGROUND UTILITIES WHILE EXCAVATING FOR SIGNAL SUPPORT FOUNDATIONS OR SIMILAR FOUNDATIONS. AFTER ACCURATELY IDENTIFYING THE PROPOSED LOCATION OF THE FOUNDATION, AS SHOWN IN THE PLANS AND AFTER MODIFYING THAT LOCATION, IF NECESSARY, BASED ON THE FIELD MARKING OF UNDERGROUND UTILITY LOCATION, THE CONTRACTOR DISCOVERS A UTILITY CONFLICT DURING THE EXCAVATION OPERATION, THE CONTRACTOR WILL BE COMPENSATED FOR EACH PARTIAL FOUNDATION EXCAVATION ACCORDING TO THE BID PRICE.

BEFORE THE CONTRACTOR BEGINS THE EXCAVATION AT THE MODIFIED LOCATION, THE CONTRACTOR SHALL VERIFY THAT THERE WILL BE NO OVERHEAD UTILITY CONFLICTS RESULTING FROM THE NEW SIGNAL SUPPORT LOCATION. NEW

SUPPORT LOCATIONS ARE TO BE APPROVED BY THE ENGINEER.

THE WORK WILL INCLUDE BACKFILLING, COMPACTING, AND RESTORATION OF THE EXCAVATION TO THE SITE'S ORIGINAL CONDITION

EXCAVATIONS SHALL NOT BE LEFT OPEN OVERNIGHT.

PAYMENT FOR THIS ITEM SHALL BE AT THE UNIT PRICE BID PER EACH ITEM 632 TEST HOLE PERFORMED TO BE USED AT THE DIRECTION OF THE ENGINEER.

# ITEM 632 - SIGNAL SUPPORT, TYPE TC-81.22, (BY DESIGN), AS PER PLAN

THIS ITEM SHALL CONFORM TO ITEM 632.15 AND 732.11. EXCEPT THAT POLES SHALL BE TAPERED TUBES OF CONTINUOUS TAPER. POLE CONSISTING OF STRAIGHT SECTIONS WITH A TAPERED EFFECT ACCOMPLISHED BY THE USE OF REDUCERS SHALL NOT BE PERMITTED. POLES SHALL BE ROUND IN SHAPE. OCTAGON SHAPED POLES ARE NOT PERMITTED. IN ADDITION THE SIGNAL SUPPORTS SHALL BE POWDER COATED DARK BRONZE #F-283 PER CITY OF CLEVELAND SPECIFICATION, A PAINT CHIP SAMPLE SHALL BE SUBMITTED TO THE CITY OF CLEVELAND ENGINEER AT LEAST 7-DAYS PRIOR TO ORDERING MATERIALS FOR REVIEW AND

PAYMENT FOR ITEM 632 SIGNAL SUPPORT, TYPE TC-81.22, (BY DESIGN), AS PER PLAN SHALL BE PER EACH SUPPORT AND BE FULL COMPENSATION FOR ALL LABOR. MATERIALS AND ALL OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK.

#### SIGNAL SUPPORTS

DUE TO THE POSSIBILITY OF CONFLICT WITH EXISTING OR PROPOSED UNDERGROUND OBSTRUCTIONS (INCLUDING THE POSSIBILITY IF UNREINFORCED OBSTRUCTIONS) WHICH COULD AFFECT THE LOCATION OF THE FOUNDATIONS FOR THESE ITEMS, AND CONSEQUENTLY, THE DESIGN OF THE VARIOUS SUPPORTS, AND/OR ARMS, THE CONTRACTOR SHALL NOT PLACE ORDERS FOR THESE ITEMS UNTIL THE FOUNDATIONS HAVE BEEN INSTALLED AND HE HAS RECEIVED FROM THE ENGINEER WRITTEN NOTICE TO PROCEED WITH THE ORDERS FOR THESE

IF ANY FOUNDATION LOCATIONS MUST BE ADJUSTED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER, WHO WILL DETERMINE THE REVISED LOCATIONS AND IF ANY SUPPORT DESIGN CHANGES ARE NECESSARY IN CONSULTATION WITH THE MAINTAINING AGENCY. THE CONTRACTOR WILL NOTE BE RESPONSIBLE FOR DETERMINING THE REVISED DESIGN, THE ENGINEER WILL SUBSEQUENTLY INFORM THE CONTRACTOR OF ANY CHANGES NECESSARY, AND AUTHORIZE THEM TO ORDER THE SUPPORTS.

THE CONTRACTOR SHALL, WHEN DEVELOPING HIS PROGRESS SCHEDULE, AND THOSE OF HIS SUBCONTRACTOR, ENSURE THAT THE FOUNDATIONS ARE INSTALLED AT THE EARLIÉST TIME AS IS FEASIBLE AND PRACTICAL, AND SHALL INCLUDE SUFFICIENT TIME IN THE PROGRESS SCHEDULE FOR THE ORDERING. MANUFACTURING, DELIVERY, AND INSTALLATION OF THESE ITEMS AFTER THE FOUNDATION ARE IN PLACE.

NO PAYMENTS FOR DELIVERED MATERIALS FOR THESE ITEMS WILL BE MADE UNTIL THE FOUNDATIONS ARE IN PLACE, AND IF CHANGES IN THE DESIGN OF THESE ITEMS AREA REQUIRED, NO PAYMENTS WILL BE MADE FOR ITEMS MANUFACTURED TO THE ORIGINAL DESIGNS.

THE CONTRACTOR SHALL PROTECT PEDESTRIANS AND VEHICLES FROM EXPOSED ANCHOR BOLTS UNTIL THE ASSOCIATED SIGNAL SUPPORTS IS ERECTED. THE METHOD OF COVERING THE ANCHOR BOLTS SHALL BE APPROVED BE THE ENGINEER.

ALL COSTS ASSOCIATED WITH THE PROCEDURES AS OUTLINED ABOVE SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE UNIT PRICE BED (EACH) FOR:

ITEM 632, STRAIN POLE, TYPE TC-81.11, (BY DESIGN)

ITEM 632, SIGNAL SUPPORT, TYPE TC-81.22 (BY DESIGN), AS PER

# ITEM 632 - REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM, PEDESTRIAN HYBRID BEACON

IN ADDITION TO THE REQUIREMENTS OF C&MS 632 AND 732 THIS ITEM SHALL INCLUDE THE REMOVAL OF THE EXISTING PEDESTRIAN HYBRID BEACON AND MOUNTING BRACKETS

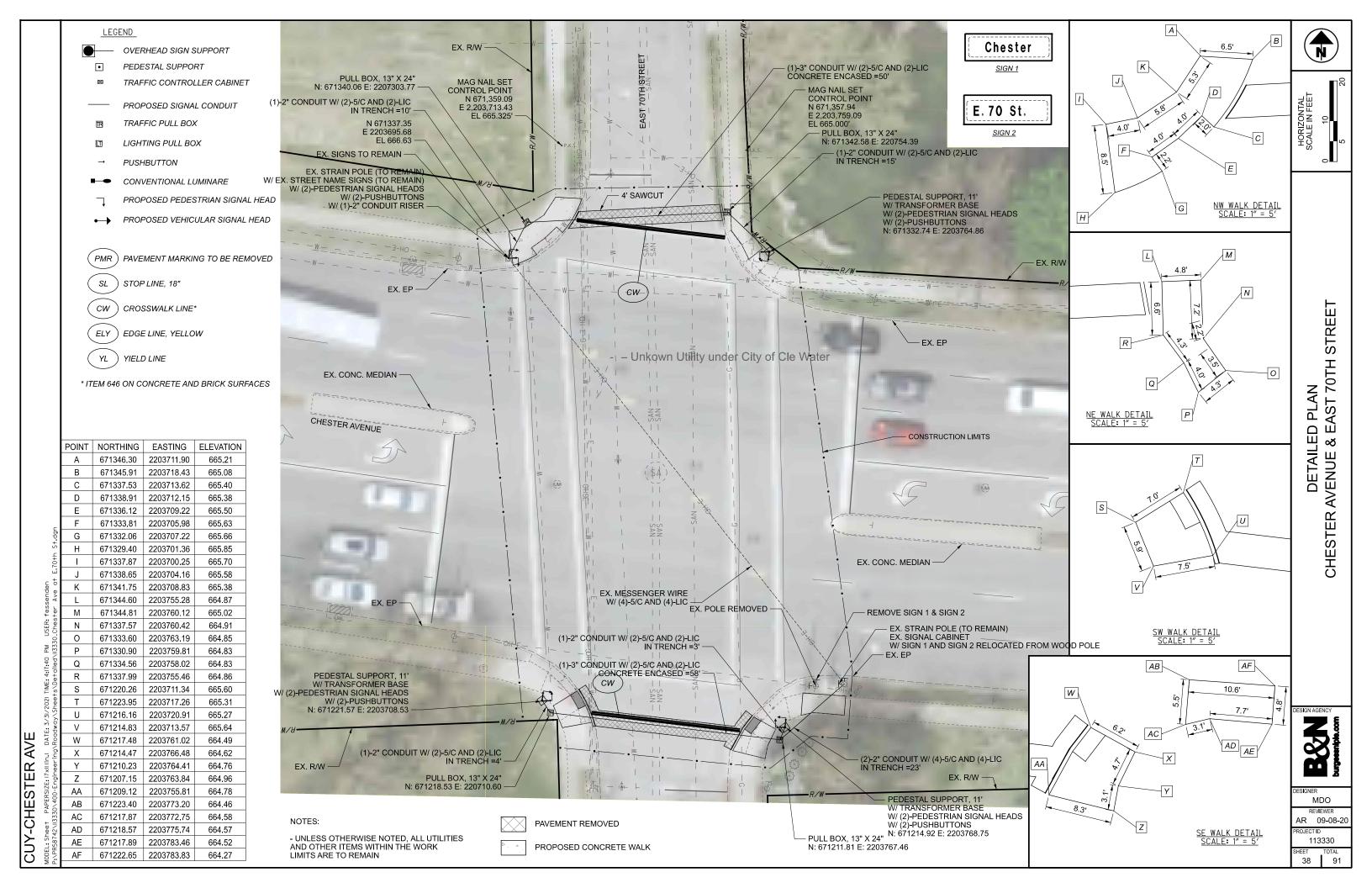
PAYMENT FOR ITEM 632 REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM PEDESTRIAN HYBRID BEACON SHALL BE PER EACH REMOVED AND DISPOSED AND SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND ALL OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK



RPT

AR 09-08-20

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HORIZONTAL SCALE IN FEET

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& EAST 71ST

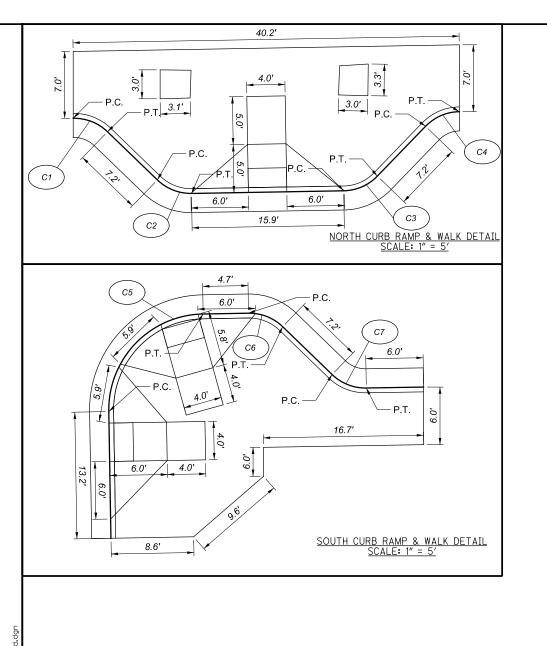
CHESTER AVENUE

**DETAILED PLAN** 

4.7'

MDO AR 12/4/2020 113330

30/2021 TIME: 6:06:26



PAVEMENT REMOVED

PROPOSED CONCRETE WALK

CUDVE NO	DADILIO	CENTER	R POINT	В	EGIN CURVE (Po	C)	END CURVE (PT)				
CURVE NO.	RADIUS	NORTHING	EASTING	NORTHING	EASTING	ELEV. (TOC)	NORTHING	EASTING	ELEV. (TOC)		
C1	5.0'	672380.26	2215566.62	672385.26	2215566,53	718.25	672383.85	2215570.10	718.40		
C2	5.0'	672382.43	2215578.77	672378.83	2215575.29	718.71	672377.43	2215578.85	718.86		
C3	10.0'	672382.70	2215594.62	672377.70	2215594.71	719.27	672379.22	2215598.22	719.31		
C4	10.0'	672380.94	2215606.83	672384.42	2215603.24	719.28	672385.94	2215606.75	719.32		
C5	10.0'	672347.73	2215595.05	672347.55	2215585.06	718.91	672357.73	2215594.89	719.28		
C6	5.0'	672352.81	2215599.69	672357.80	2215599.61	719.38	672356.40	2215603.17	719.42		
C7	5.0'	672355.01	2215611.80	672351.41	2215608.33	719.37	672350.01	2215611.89	719.41		

PROPOSED MANHOLE CONTRACTOR SHALL REMOVE THE EXISTING INLET CASTING AND CONE. CONTRACTOR SHALL REPLACE WITH A NEW MANHOLE CASTING AND CONE TO THE NEW WALK ELEVATION. CONTRACTOR SHALL USE EXTREME CARE TO NOT DISTURB ANY UTILITIES NEAR THE EXISTING STRUCTURE. CONTRACTOR SHALL ALSO TAKE CARE TO ENSURE NO VERTICAL DIFFERENCES BETWEEN THE MANHOLE LID AND THE CURB RAMP LANDING. ADDITIONAL QUANTITIES ARE SHOWN IN THE GENERAL NOTES FOR PAVEMENT WARPING TO ENSURE POSITIVE DRAINAGE.

ADA LANDING 48:1 MAX -

EX. GAS VALVE (ATG, BY OTHERS)

2' SAW CUT -

CURB RAMP TYPE CR-

CURB RAMP TYPE CR-1

N 672,334.36 E 2,215,585.28

E 2,215,593.90

EL 719.35

EL 718.98'

EX. GAS VALVE

(ATG, BY OTHERS)

CURB RAMP TYPE CR-1

EX. CATCH BASIN (TBR)
PROPOSED MANHOLE (LOCATION
APPROXIMATE)

SEE NOTE THIS SHEET

EX. WATER VALVE (ATG) -

EX. TREE (DND) -

EX. GAS VALVE (ATG, BY OTHERS) -

EX. POLE (DND)

N 672,385.76 E 2,215,566.92

EX. R/W -

MAG NAIL SET CONTROL POINT N 672,393.05 E 2,215,554.45

EL 718.246'

EX. R/W

# NOTES:

EX. GAS VALVE (ATG, BY OTHERS)

EX. TREE (DND)

N 672,392.91 E 2,215,606.75 EL 719.62'

PROP. EP

- UNLESS OTHERWISE NOTED, ALL UTILITIES AND OTHER ITEMS WITHIN THE WORK LIMITS ARE TO REMAIN

MAG NAIL SET CONTROL POINT

MAYFIELD ROAD

N 672,350.11 E 2,215,617.86 EL 719.90'

N 672.399.92

E 2,215,619.51 EL 719.921'

E 2,215,606.75

2' SAW CUT

PROP. EP

N 672,344.11 E 2,215,617.86

N 672,343.83 E 2,215,601.19 EL MATCH EX.

N 672,340.81 E 2,215,601.19 EL 719.56

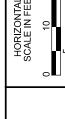
ADA LANDING 48:1 MAX

EL 719.93'

- CONTRACTOR TO CONFIRM TIE-IN ELEVATIONS FOR WAL AND CURB REPLACEMENT OUTSIDE OF SURVEY LIMITS. CONTRACTOR TO MATCH EXISTING ELEVATION AT LOCATIONS CALLED OUT ON THE SHEET.

|--|

NTAL N FEET		00
HORIZONTAL SCALE IN FEET	10	ч



DETAILED PLAN - ROADWAY MAYFIELD ROAD & MURRAY HILL ROAD

MDO AR 12/4/2020 113330