

**MUNICIPALITY OF ANCHORAGE
TRAFFIC ENGINEERING DEPARTMENT**

**SCENIC PARK ELEMENTARY SCHOOL
PEDESTRIAN IMPROVEMENTS
PROJECT 22-22**

**65% REVIEW
APRIL, 2023**

APPROVED BY:

BRANDON TELFORD, P.E., ACTING MUNICIPAL ENGINEER



VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

I:\Projects\2022\22-22 Scenic Park Elementary Pedestrian Improvements\03\Drawings\01\014_07_01_Cover_1x1_04-06-23 at 17:02 by ALA
 LAYOUT COVER
 VIEW: 00_1_PDF

LEGEND

EXISTING	PLAN	PROPOSED	
---			RIGHT-OF-WAY
---			PROPERTY LINE
---			EASEMENT LINE
---			ROADWAY CENTERLINE
OH			OVERHEAD UTILITY LINE
E		E	UNDERGROUND ELECTRIC LINE
G			UNDERGROUND NATURAL GAS LINE
S			UNDERGROUND SANITARY SEWER LINE
SD		SD	STORM DRAIN LINE
T			UNDERGROUND TELEPHONE LINE
W			UNDERGROUND WATER LINE
TR			UNDERGROUND TRAFFIC LINE
FO			UNDERGROUND FIBER OPTIC LINE
⊙			ELECTRIC MANHOLE
⊠			TRAFFIC LIGHT JUNCTION BOX
⊠			LIGHTING JUNCTION BOX
⊙			UTILITY POLE W/LIGHT
⊙			WOOD UTILITY POLE
⊙		⊙	TRAFFIC LUMINAIRE
⊙			FIRE HYDRANT
⊙			WATER VALVE/KEYBOX
⊠		■	STORM DRAIN CATCH BASIN
⊠		⊠	STORM DRAIN CATCH BASIN MANHOLE
⊠			SANITARY SEWER MANHOLE
⊠			GUY ANCHOR
⊠		⊠	ELECTRIC JUNCTION BOX (TYPE 1A 2 3)
⊠		■	MAILBOX(S)
⊠		⊠	SIGN
⊠		⊠	POST
⊠		⊠	CONIFEROUS TREE
⊠		⊠	DECIDUOUS TREE
⊠		⊠	BUSH
⊠		⊠	ROCK
⊠		⊠	EDGE OF TREES
⊠		⊠	CHAIN LINK FENCE
⊠		⊠	CABLE FENCE
⊠		⊠	DETECTABLE WARNING
⊠		⊠	CONCRETE
⊠		⊠	ASPHALT PAVEMENT
⊠		⊠	REMOVE CURB & GUTTER
⊠		⊠	REMOVE CONCRETE SIDEWALK OR DRIVEWAY
⊠		⊠	REMOVE EXISTING PAVEMENT OR PATHWAY
⊠		⊠	REMOVE STORM DRAIN PIPE
⊠		⊠	RETAINING WALL/LANDSCAPE PAVERS
⊠		⊠	INSULATION BOARD
⊠		⊠	GRADE TO DRAIN

DRAWING INDEX

2	TITLE SHEET
2	LEGEND, INDEX, GENERAL NOTES, AND ABBREVIATIONS
3	SURVEY CONTROL
4	TYPICAL SECTIONS
5	DETAILS
6	DEMOLITION PLAN
7-8	LAYOUT PLAN
9	STORM DRAIN PLAN AND PROFILE
10	SIGNING AND STRIPING PLAN
11	SIGN SUMMARY AND SALVAGE
12	ILLUMINATION LEGEND, ABBREVIATIONS, AND SCHEDULES
13	ILLUMINATION LAYOUT
14	POWER ONE-LINE AND LOAD CENTER SCHEDULES

ABBREVIATIONS

AC	ASPHALT CONCRETE
ADDN	ADDITION
ALCAP	ALUMINUM CAP
BLK	BLOCK
BM	BENCH MARK
B.O.P.	BEGINNING OF PROJECT
⊠	CENTERLINE/CLEAR
CB	CATCH BASIN
CBMH	CATCH BASIN MANHOLE
CPEP	CORRUGATED POLYETHYLENE PIPE
DIA	DIAMETER
DTL	DETAIL
E	EAST
EA	EACH
ELEC	ELECTRIC
EL	ELEVATION
E.O.P.	END OF PROJECT
F&I	FURNISH AND INSTALL
FT	FEET
GAAB	GREATER ANCHORAGE AREA BOROUGH
GALV.	GALVANIZED
I.A.W.	IN ACCORDANCE WITH
IBC	INTERNATIONAL BUILDING CODE
IGP	INTERGOVERNMENTAL CONSTRUCTION PERMIT
IN	INCH
INV	INVERT
LOC	LIP OF CURB
LT	LEFT
M.A.S.S.	MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS, STREETS- DRAINAGE-UTILITIES-PARKS, 2015 AS CURRENTLY AMENDED
MAX	MAXIMUM
ME	MATCH EXISTING
MEA	MEASURED
MH	MANHOLE
MIN	MINIMUM
MOA	MUNICIPALITY OF ANCHORAGE
MON	MONUMENT
MSL	MEAN SEA LEVEL
N	NORTH
NE	NORTHEAST
NGS	NATIONAL GEODETIC SURVEY
NTS	NOT TO SCALE
NW	NORTHWEST
O.C.	ON CENTER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PC	POINT OF CURVATURE
P.C.C.	PORTLAND CEMENT CONCRETE
P.I.	POINT OF INTERSECTION
PT	POINT OF TANGENCY
R	RADIUS
REC	RECORDED
REQ'D	REQUIRED
ROW	RIGHT OF WAY
RT	RIGHT
S	SOUTH
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SE	SOUTHEAST
SSMH	SANITARY SEWER MANHOLE
STA	STATION
STD DTL	STANDARD DETAIL FOUND IN DIVISION 90, M.A.S.S. 2015
SUBD	SUBDIVISION
SW	SOUTHWEST
TBC	TOP BACK OF CURB
TELE	TELEPHONE
TRA	TRANSITION
TYP	TYPICAL
USPS	UNITED STATES POSTAL SERVICE
VB	VALVE BOX
W	WEST/WHITE
Y	YELLOW
(30')	DIMENSION FROM RECORD DRAWINGS
⊠	DETAIL AND SHEET NUMBER FOR DETAIL

GENERAL NOTES

- CONTRACTOR SHALL COMPLETE CONSTRUCTION I.A.W. THE MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS, DATED 2015 HEREAFTER REFERRED TO AS M.A.S.S.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO BEGINNING CONSTRUCTION. THE PERMITS SHALL BE MAINTAINED AT THE JOB SITE.
- I.A.W. ACCEPTED CONSTRUCTION PRACTICES AND M.A.S.S. GENERAL PROVISIONS, THE CONTRACTOR SHALL HAVE SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS, SUBCONTRACTORS, SUPPLIERS, PROPERTY, AND TRAFFIC SAFETY. THE CONTRACTOR SHALL ALSO HAVE SOLE AND COMPLETE RESPONSIBILITY OF STORM WATER MANAGEMENT. THESE REQUIREMENTS SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, STATE AND FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATIONS (OSHA), AND ALL OTHER FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS PERTAINING TO THIS PROJECT. ANY WORK PERFORMED BY THE CONTRACTOR CONTRARY TO SUCH LAWS OR REGULATIONS SHALL BE AT THE CONTRACTOR'S SOLE RISK AND EXPENSE.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LAYOUT PRIOR TO PROCEEDING WITH THE WORK. ANY DISCREPANCY IN THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- CONTRACTOR SHALL SAWCUT EXISTING PAVEMENT (ROADS, PARKING AREAS, DRIVEWAYS, ETC.) TO A LINE 2 FEET BEYOND THE PROPOSED IMPROVEMENTS, AND MORE IF NECESSARY, DURING THE INITIAL EXCAVATION OPERATIONS. IF EXISTING PAVEMENT HAS BEEN LIFTED, IF EDGE DOES NOT OCCUR IN UNDISTURBED MATERIAL, OR IF EDGE IS LOCATED WITHIN A TRAVEL LANE, FURTHER REMOVAL MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, TO PROVIDE A PROPER TRANSITION BETWEEN NEW AND EXISTING PAVEMENT. SAWCUTTING OF EXISTING PAVEMENT IS INCIDENTAL TO THE BID ITEM "REMOVE EXISTING PAVEMENT", AND NO SEPARATE PAYMENT SHALL BE MADE.
- CONTRACTOR SHALL SAWCUT PAVEMENT TRANSVERSE JOINTS SKEWED AT AN ANGLE OF TWENTY DEGREES OR AS SHOWN ON THE PLANS.
- CONTRACTOR SHALL SAWCUT CURB & GUTTER AND SIDEWALK AT THE NEAREST JOINT AT OR BEYOND REMOVAL LIMITS OR AS DIRECTED BY THE ENGINEER. SAWCUTTING IS INCIDENTAL TO THE RESPECTIVE BID ITEM.
- CONTRACTOR SHALL APPLY TACK COAT TO THE SAW CUT ASPHALT OR GUTTER FACE PRIOR TO PAVING. APPLICATION OF TACK COAT TO THE SAWCUT OR GUTTER FACE IS INCIDENTAL TO THE RESPECTIVE BID ITEM.
- CONTRACTOR SHALL REMOVE ORGANIC MATERIAL FROM THE SUBGRADE TO A DEPTH TO BE DETERMINED BY THE ENGINEER. CONTRACTOR SHALL NOT PLACE OR SHALL NOT OTHERWISE UTILIZE ORGANIC MATERIAL OR OTHER DELETERIOUS MATERIAL FOR BACKFILL, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- WORK AND MATERIALS REQUIRED FOR REMOVING LITTER OR DEBRIS THAT EXISTS WITHIN THE PROJECT LIMITS IS INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE.
- CONTRACTOR SHALL MAINTAIN "REDLINE" RECORD DRAWINGS ON A CLEAN SET OF CONSTRUCTION DRAWINGS IN ACCORDANCE WITH M.A.S.S. DIVISION 65 CONSTRUCTION SPECIFICATIONS FOR MUNICIPAL CONSTRUCTION SURVEYS. THE CONTRACTOR SHALL MAINTAIN THE "REDLINES" CURRENT ON A DAILY BASIS WHICH SHALL BE AVAILABLE TO THE ENGINEER FOR INSPECTION ON THE JOB SITE.
- CONTRACTOR SHALL RECORD SURVEY NOTES FOR SUBMITTAL WITH RECORD DRAWINGS, INCLUDING HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD. CONTRACTOR SHALL RECORD ALL DEVIATIONS FROM THE PLANS AND SUBMIT DAILY SURVEY NOTES TO THE ENGINEER.
- CONSTRUCTION OPERATIONS REQUIRED FOR THIS PROJECT SHALL REMAIN WITHIN EXISTING MOA RIGHTS-OF-WAY AND EASEMENTS, UNLESS OTHERWISE APPROVED IN WRITING BY THE ENGINEER AND THE AFFECTED PROPERTY OWNER.
- LOCATIONS DEPICTED FOR THE UTILITIES AND OTHER EXISTING FEATURES ARE APPROXIMATE. SOME UTILITIES HAVE BEEN LOCATED FROM RECORD DRAWINGS AND UTILITY COMPANY LOCATES. CONTRACTOR SHALL LOCATE AND VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL CONDUCT A WALK-THROUGH OF THE PROJECT WITH AWWU ENGINEERING DIVISION PRIOR TO AND POST CONSTRUCTION I.A.W. M.A.S.S. SECTION 10.04, ARTICLE 4.17 UTILITIES.
- OVERHEAD ELECTRICAL AND TELECOMMUNICATION LINES OCCUR WITHIN THE PROJECT AREA. CONTRACTOR SHALL COORDINATE WORK ACCORDINGLY. ALL WORK IN CLOSE PROXIMITY TO EXISTING UTILITY LINES SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL STATUTES, CODES AND GUIDELINES, AND THE ELECTRICAL FACILITY CLEARANCE REQUIREMENTS OF THE GOVERNING UTILITY. CONTRACTOR SHALL HAND DIG WITHIN TWO FEET OF BURIED ELECTRICAL CABLE.
- CONTRACTOR SHALL RESTORE DISTURBED PROPERTY TO PRE-CONSTRUCTION CONDITION(S), UNLESS OTHERWISE DIRECTED BY THE ENGINEER. RESTORING DISTURBED PROPERTY IS INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.
- CONTRACTOR SHALL MAINTAIN STOP SIGNS AND STREET SIGNS OPERATIONAL IN THE PROJECT AREA DURING CONSTRUCTION.
- CONTRACTOR SHALL TOPSOIL AND SEED ALL AREAS DISTURBED AND NOT OTHERWISE IMPROVED, AS DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL ADJUST WATER VALVES I.A.W. M.A.S.S. STD DTL 60-3. PAYMENT FOR WATER VALVE ADJUSTMENT IS PURSUANT TO M.A.S.S. SECTION 60.03 FURNISH AND INSTALL VALVES, "REMOVE AND REPLACE VALVE BOX TOP SECTION".
- CONTRACTOR SHALL HAND DIG TO EXPOSE ANY ROOTS WITHIN THE TREE PROTECTION ZONE. IF DAMAGE OR CHANGES IN TREE APPEARANCE OCCURS DURING THE CONSTRUCTION PROCESS IMMEDIATELY NOTIFY THE ENGINEER.

STORM DRAIN NOTES

- CONSTRUCT CATCH BASINS I.A.W. STD DTL 55-22.
- PLACE STORM DRAIN PIPE JOINTS AT LEAST 9 FT FROM WATER LINE CROSSING.
- FURNISH AND INSTALL INSULATION BOARD WHEN CLEARANCE BETWEEN THE STORM DRAIN IMPROVEMENTS AND THE SURFACE OF THE ROADWAY IS LESS THAN FOUR (4) FEET FROM OUTSIDE OF PIPE TO TOP SURFACE OF THE ROADWAY OR AS APPROVED BY THE ENGINEER. INSTALL I.A.W. DETAIL 1 ON SHEET 5.

CALL BEFORE YOU DIG

THE CONTRACTOR SHALL NOTIFY AREA UTILITY COMPANIES PRIOR TO COMMENCEMENT OF EXCAVATION. THE FOLLOWING IS A PARTIAL LIST:

LOCATE CALL CENTER OF ALASKA 811
(INCLUDES ACS, AWWU, CEA, ENG, BUTLER AVIATION/TESORO, GCI CABLE, MLP, TRAFFIC SIGNALS, MOA STORM/STREETS, AND ALASKA FIBER STAR.)

STATE STORM/STREET LIGHTS 333-2411
MILITARY PETROLEUM LINES 862-4112

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.
CONTRACTOR: _____ TITLE: _____ DATE: _____
BY: _____

2. DATA TRANSFERRED BY: _____ TITLE: _____
COMPANY: _____ DATE: _____

3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.
DATA TRANSFER CHECKED BY: _____ TITLE: _____
COMPANY: _____ DATE: _____
BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	---	---
TOPOGRAPHY	---	---
PROFILE	---	---
STORM SEWER	---	---
WATER/SANITARY SEWER	---	---
GAS	---	---
TELEPHONE	---	---
ELECTRIC	---	---
DESIGN	---	---
QUANTITIES	---	---
PRELIMINARY/FINAL	---	---
MUNICIPAL/STATE	---	---

FIELD BOOKS	TBM NO.	LOCATION	ELEV.	REV.	DATE	DESCRIPTION	BY
DESIGN							
STAKING							
ASBUILT							
CONTRACTOR							
INSPECTOR							

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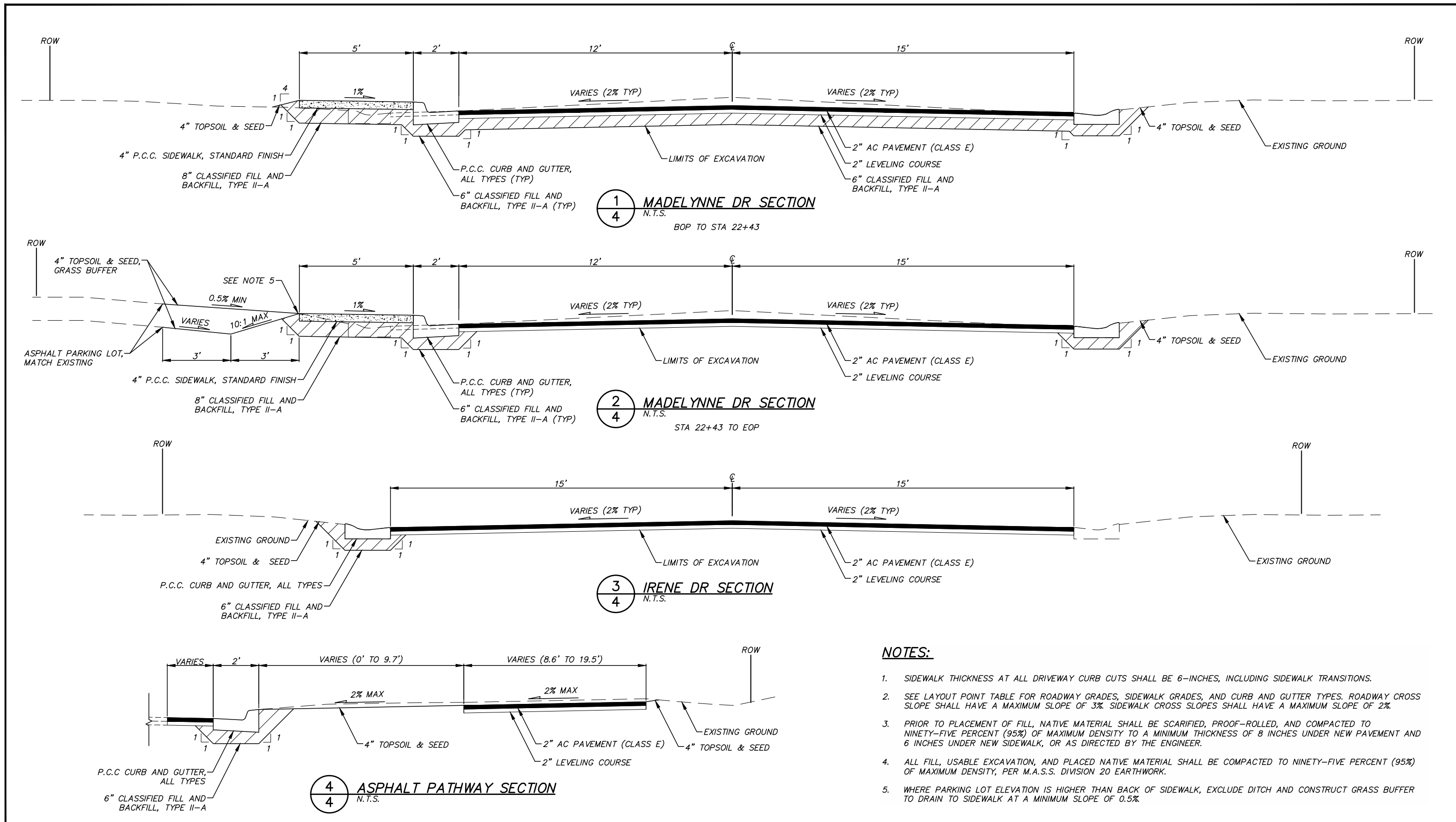
TRAFFIC ENGINEERING DEPARTMENT

22-22 SCENIC PARK ELEMENTARY SCHOOL PEDESTRIAN IMPROVEMENTS

LEGEND, INDEX, GENERAL NOTES, AND ABBREVIATIONS

SCALE HOR. VER.	GRID SW1739, SW1740	DATE APR, 2023	STATUS	SHEET 2 of 14
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FILE NO. -



NOTES:

1. SIDEWALK THICKNESS AT ALL DRIVEWAY CURB CUTS SHALL BE 6-INCHES, INCLUDING SIDEWALK TRANSITIONS.
2. SEE LAYOUT POINT TABLE FOR ROADWAY GRADES, SIDEWALK GRADES, AND CURB AND GUTTER TYPES. ROADWAY CROSS SLOPE SHALL HAVE A MAXIMUM SLOPE OF 3%. SIDEWALK CROSS SLOPES SHALL HAVE A MAXIMUM SLOPE OF 2%.
3. PRIOR TO PLACEMENT OF FILL, NATIVE MATERIAL SHALL BE SCARIFIED, PROOF-ROLLED, AND COMPACTED TO NINETY-FIVE PERCENT (95%) OF MAXIMUM DENSITY TO A MINIMUM THICKNESS OF 8 INCHES UNDER NEW PAVEMENT AND 6 INCHES UNDER NEW SIDEWALK, OR AS DIRECTED BY THE ENGINEER.
4. ALL FILL, USABLE EXCAVATION, AND PLACED NATIVE MATERIAL SHALL BE COMPACTED TO NINETY-FIVE PERCENT (95%) OF MAXIMUM DENSITY, PER M.A.S.S. DIVISION 20 EARTHWORK.
5. WHERE PARKING LOT ELEVATION IS HIGHER THAN BACK OF SIDEWALK, EXCLUDE DITCH AND CONSTRUCT GRASS BUFFER TO DRAIN TO SIDEWALK AT A MINIMUM SLOPE OF 0.5%.

RECORD DRAWING
 1. DATA PROVIDED BY: _____ TITLE: _____
 THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.
 CONTRACTOR: _____ TITLE: _____ DATE: _____
 BY: _____
 2. DATA TRANSFERRED BY: _____ TITLE: _____
 COMPANY: _____ DATE: _____
 3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.
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 COMPANY: _____ DATE: _____
 BY: _____

DATA	DRAWN BY	CHECKED BY	FIELD BOOKS	TBM NO.	LOCATION	ELEV.	REV.	DATE	DESCRIPTION	BY
BASE	---	---								
TOPOGRAPHY	---	---								
PROFILE	---	---								
STORM SEWER	---	---	DESIGN							
WATER/SANITARY SEWER	---	---	STAKING							
GAS	---	---								
TELEPHONE	---	---								
ELECTRIC	---	---								
DESIGN	---	---	ASBUILT							
QUANTITIES	---	---	CONTRACTOR							
PRELIMINARY/FINAL	---	---	INSPECTOR							
MUNICIPAL/STATE	---	---								

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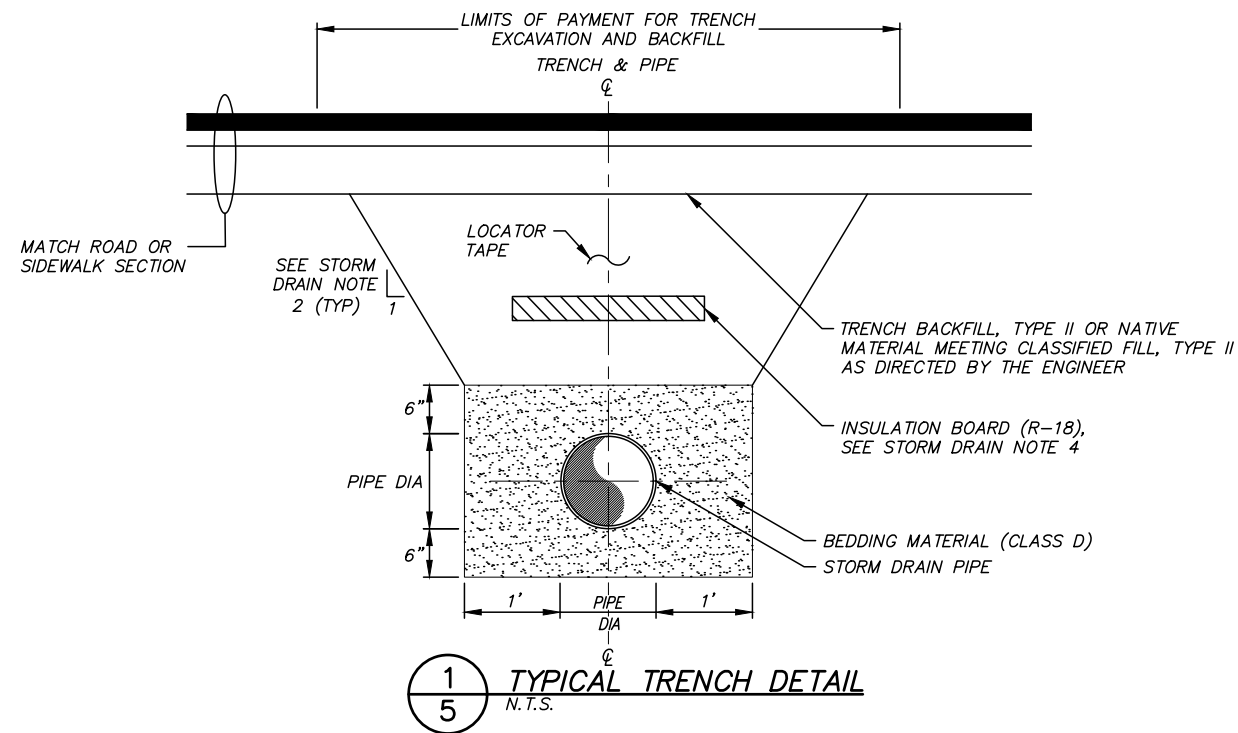
22-22 SCENIC PARK ELEMENTARY SCHOOL PEDESTRIAN IMPROVEMENTS

TYPICAL SECTIONS

SCALE	HOR. N.T.S. VER. N.T.S.	GRID	SW1739, SW1740
DATE	APR, 2023	STATUS	

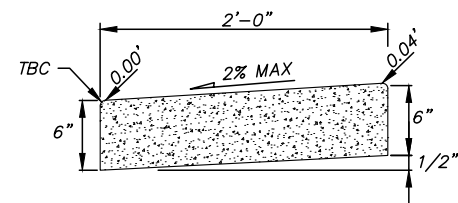
4 of 14 SHEET

FILE NO. -



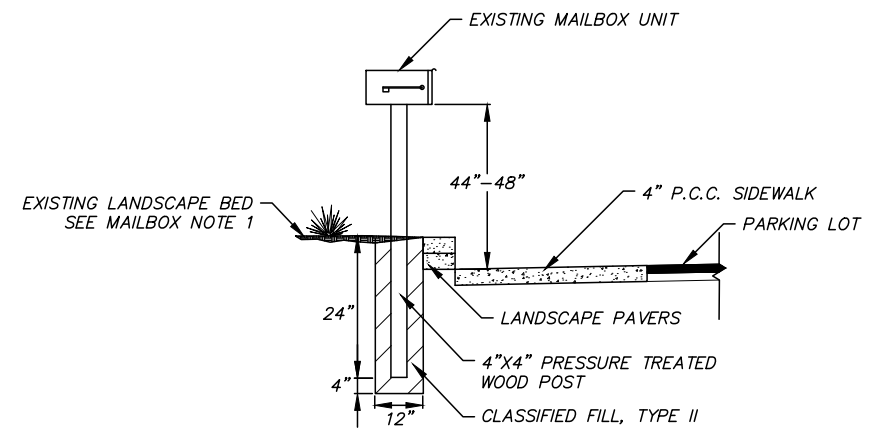
STORM DRAIN NOTES:

1. TRENCH BACKFILL MATERIAL PLACED AND COMPACTED TO DEPTHS SHOWN IN THE DRAWINGS OR AS DETERMINED BY THE ENGINEER. COMPACT TRENCH BACKFILL TO A MINIMUM OF 95% MAXIMUM DENSITY.
2. TRENCH WALL SLOPES WILL VARY WITH SOIL STRENGTH AND CHARACTER. SLOPES SHALL CONFORM TO OSHA SAFETY STANDARDS.
3. BACKFILL SHALL BE FREE OF CLAYS AND ORGANIC MATERIAL.
4. PLACE INSULATION WHEN SPECIFIED IN CONTRACT DOCUMENTS. SEE M.A.S.S. STD DTL 20-9 FOR PIPE INSULATION DETAILS.



CURB AND GUTTER NOTES

1. TROWEL BOTH FRONT AND BACK EDGES OF TYPE 2B CURB AND GUTTER TO A RADIUS OF 1/2 INCH.



MAILBOX NOTES

1. SEE LAYOUT SHEET FOR LOCATION OF MAILBOX. ADJUST LOCATION AS REQUIRED TO PROTECT EXISTING SHRUBS AND ROOTS SCHEDULED TO REMAIN. APPROVE LOCATION WITH THE ENGINEER PRIOR TO INSTALLATION.
2. THE SIDEWALK IN FRONT OF THE MAILBOX SHALL HAVE A MINIMUM CLEAR WIDTH OF 4 FEET.
3. CONTACT THE ENGINEER TO COORDINATE WITH USPS PRIOR TO RELOCATING EXISTING MAILBOX.
4. CONTRACTOR SHALL SALVAGE, FROM THE EXISTING MAILBOX UNIT, ALL REUSABLE MATERIALS. CONTRACTOR SHALL REPLACE MATERIALS THAT CANNOT BE SALVAGED OR ARE DAMAGED BY CONTRACTOR'S OPERATIONS, AT CONTRACTOR'S EXPENSE.
5. ENSURE WOOD POST IS PERPENDICULAR TO THE GROUND. MOUNT MAILBOX UNIT ON POST AND SECURE. WOOD POSTS, CLASSIFIED FILL MATERIAL, AND ALL OTHER MATERIALS NECESSARY TO RELOCATE THE MAILBOX ARE INCIDENTAL TO THE MAILBOX RELOCATION AND NO SEPARATE PAYMENT SHALL BE MADE.

RECORD DRAWING
 1. DATA PROVIDED BY: _____ TITLE: _____
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 BY: _____
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 COMPANY: _____ DATE: _____
 BY: _____

DATA	DRAWN BY	CHECKED BY	FIELD BOOKS	TBM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
BASE	---	---								
TOPOGRAPHY	---	---								
PROFILE	---	---								
STORM SEWER	---	---	DESIGN							
WATER/SANITARY SEWER	---	---								
GAS	---	---	STAKING							
TELEPHONE	---	---								
ELECTRIC	---	---								
DESIGN	---	---	ASBUILT							
QUANTITIES	---	---	CONTRACTOR							
PRELIMINARY/FINAL	---	---	INSPECTOR							
MUNICIPAL/STATE	---	---								
PLAN CHECK			CONSTRUCTION RECORD							
			VERTICAL DATUM							
			REVISIONS							

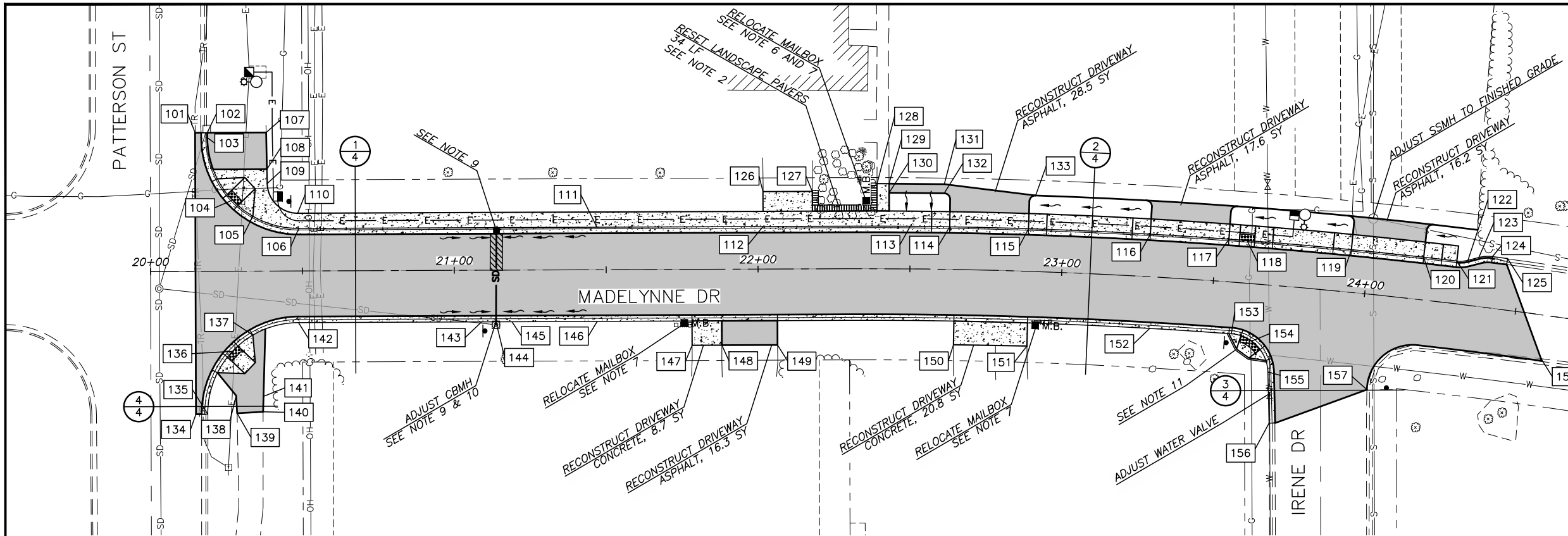
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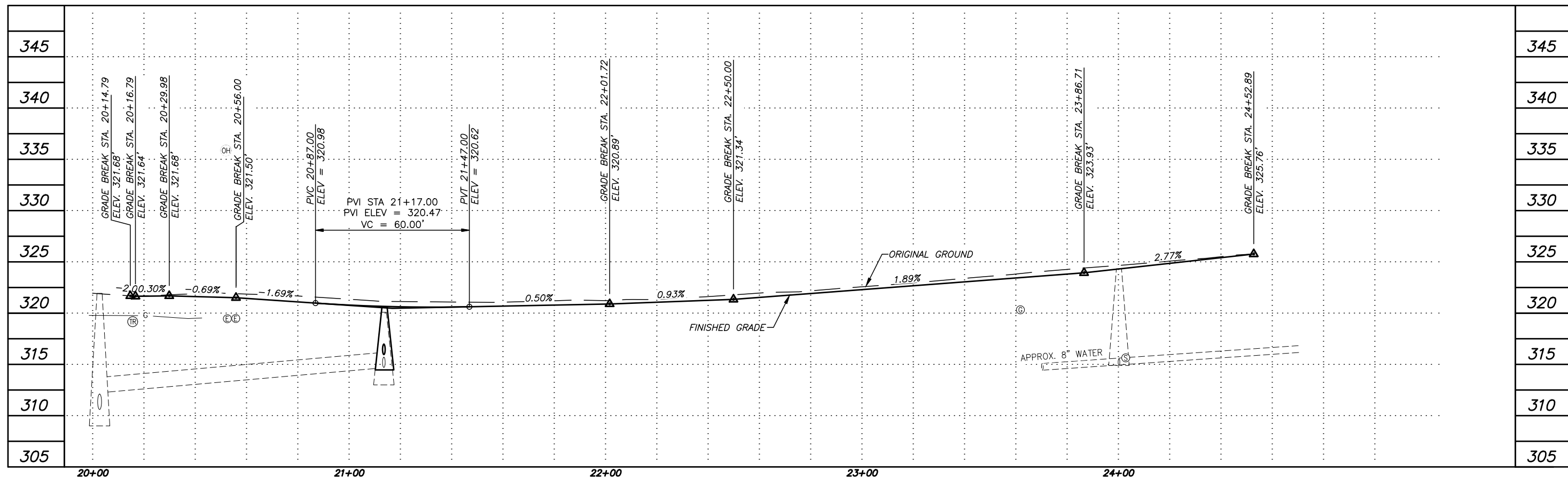


TRAFFIC ENGINEERING DEPARTMENT			
22-22	SCENIC PARK ELEMENTARY SCHOOL PEDESTRIAN IMPROVEMENTS		
DETAILS			
SCALE	HOR. N.T.S. VER. N.T.S.	GRID	SW1739, SW1740
		DATE	APR, 2023
		STATUS	
		SHEET	5 of 14

FILE NO. -



- NOTES:**
- SEE LAYOUT POINTS ON SHEET 8.
 - RESET LANDSCAPE PAVERS AND RESTORE DISTURBED LANDSCAPE AREA TO PRE-CONSTRUCTION CONDITIONS I.A.W. M.A.S.S. SECTION 75.12 REMOVE AND RESET LANDSCAPE PAVERS, AS REQUIRED.
 - CONSTRUCT PARKING LOT GRASS BUFFER I.A.W. TYPICAL 2 ON SHEET 4.
 - ROUND DRIVEWAY APPROACHES USING A 2 FT RADIUS.
 - SIDEWALK THICKNESS AT ALL DRIVEWAY CURB CUTS SHALL BE 6-INCHES THICK, INCLUDING TRANSITIONS.
 - PLACE MAILBOX TO FACE PARKING LOT. SEE DETAIL 2 ON SHEET 5 FOR MAILBOX UNIT INSTALLATION.
 - PROVIDE CONTINUOUS ACCESS TO MAILBOXES. CONTACT THE ENGINEER TO COORDINATE WITH USPS PRIOR TO RELOCATION OF EXISTING MAILBOXES.
 - SEE ILLUMINATION SHEETS FOR ILLUMINATION IMPROVEMENTS.
 - GRADE CURB AND GUTTER TO ENSURE POSITIVE DRAINAGE TO CATCH BASIN.
 - SEE STORM DRAIN PLAN FOR RIM ELEVATION.
 - TAPER BACKING CURB FLUSH WITH CURB AND GUTTER. PROVIDE 2:1 TRANSITION TO FINISHED GRADE.



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 COMPANY: _____ DATE: _____

DATA	DRAWN BY	CHECKED BY
BASE		
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PROFILE		
STORM SEWER		
WATER/SANITARY SEWER		
GAS		
TELEPHONE		
ELECTRIC		
DESIGN		
QUANTITIES		
PRELIMINARY/FINAL		
MUNICIPAL/STATE		

FIELD BOOKS	TBM NO.	LOCATION	ELEV.	REV.	DATE	DESCRIPTION	BY

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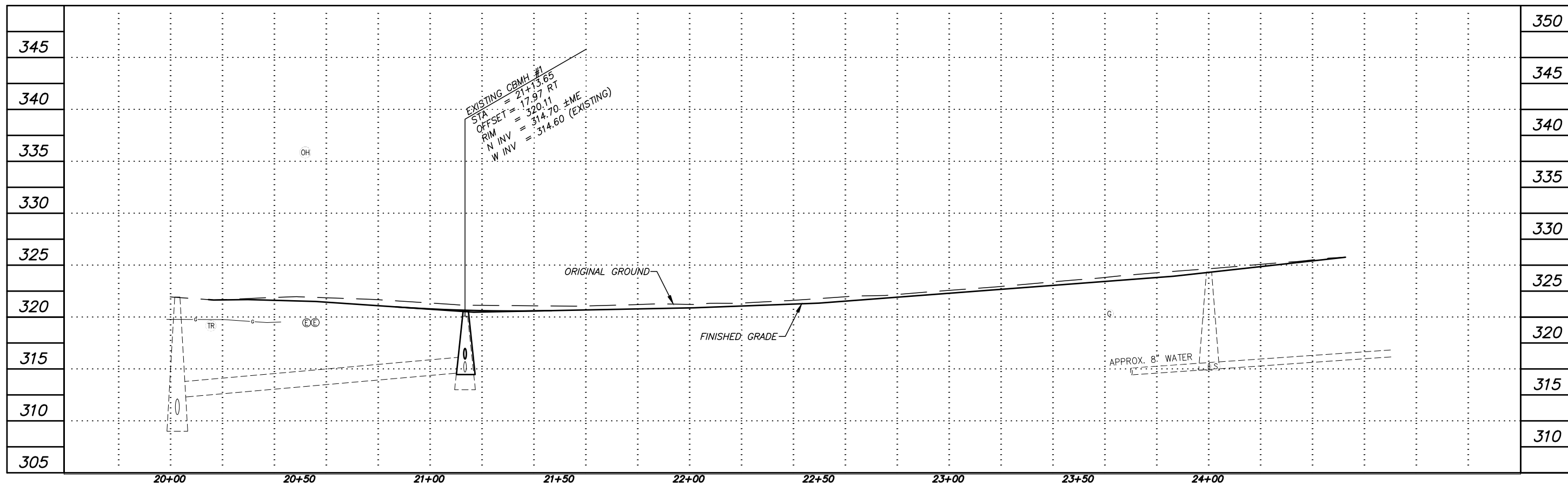
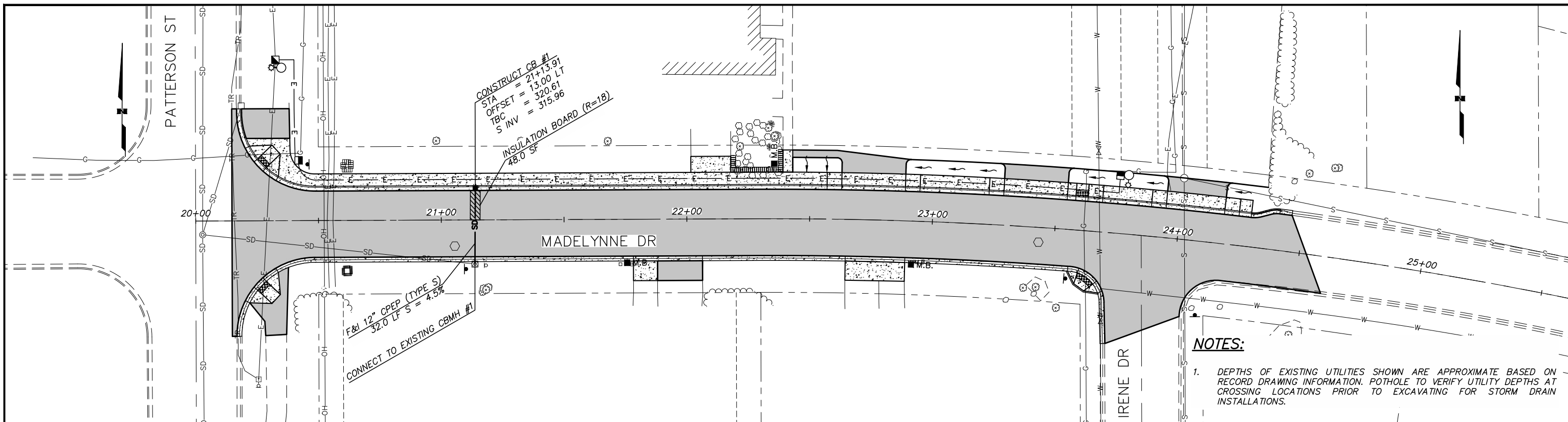
TRAFFIC ENGINEERING DEPARTMENT

22-22 SCENIC PARK ELEMENTARY SCHOOL PEDESTRIAN IMPROVEMENTS

LAYOUT PLAN

SCALE: HOR. 1"=20' VER. N/A
 GRID: SW1739, SW1740
 DATE: APR, 2023 STATUS: _____

7 of 14 SHEET



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BASE	---	---
TOPOGRAPHY	---	---
PROFILE	---	---
STORM SEWER	---	---
WATER/SANITARY SEWER	---	---
GAS	---	---
TELEPHONE	---	---
ELECTRIC	---	---
DESIGN	---	---
QUANTITIES	---	---
PRELIMINARY/FINAL	---	---
MUNICIPAL/STATE	---	---

FIELD BOOKS	TBM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY

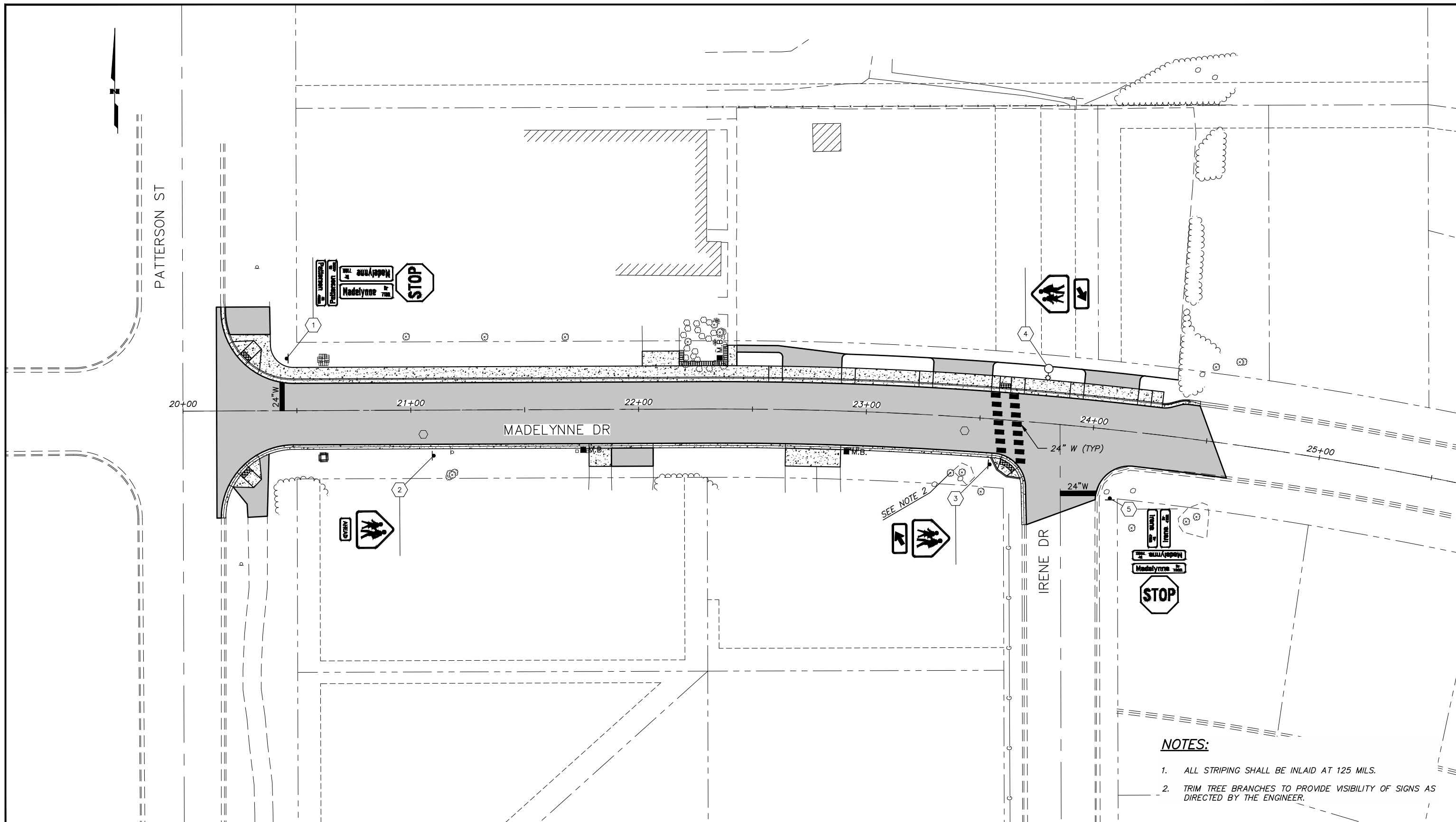
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TRAFFIC ENGINEERING DEPARTMENT
 22-22 SCENIC PARK ELEMENTARY SCHOOL PEDESTRIAN IMPROVEMENTS
STORM DRAIN PLAN

SCALE HOR. 1"=20' VER. N/A
 GRID SW1739, SW1740
 DATE APR, 2023 STATUS
 SHEET 9 of 14



- NOTES:**
1. ALL STRIPING SHALL BE INLAID AT 125 MILS.
 2. TRIM TREE BRANCHES TO PROVIDE VISIBILITY OF SIGNS AS DIRECTED BY THE ENGINEER.

RECORD DRAWING

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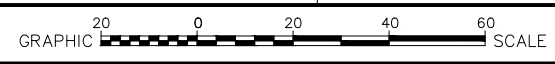
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TOPOGRAPHY		
PROFILE		
STORM SEWER		
WATER/SANITARY SEWER		
GAS		
TELEPHONE		
ELECTRIC		
DESIGN		
QUANTITIES		
PRELIMINARY/FINAL		
MUNICIPAL/STATE		

FIELD BOOKS	TBM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY

PLAN CHECK CONSTRUCTION RECORD VERTICAL DATUM REVISIONS CONSULTANT SEAL



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TRAFFIC ENGINEERING DEPARTMENT

22-22 SCENIC PARK ELEMENTARY SCHOOL PEDESTRIAN IMPROVEMENTS

SIGNING AND STRIPING PLAN

SCALE HOR. 1"=20' GRID SW1739, SW1740
 VER. N/A DATE APR, 2023 STATUS 10 of 14 SHEET

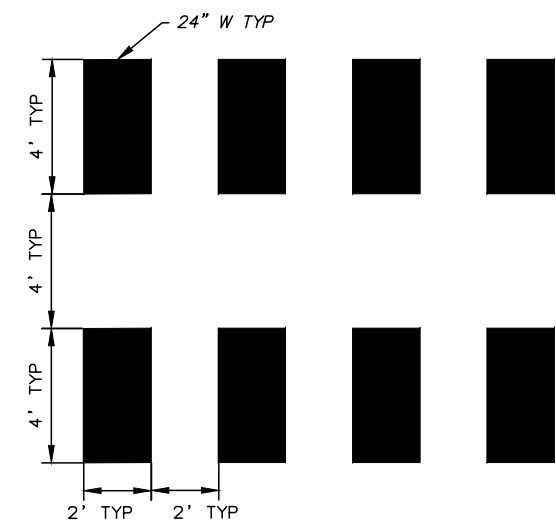
FILE NO.-

SHEET NO.	POST NO.	STATION	OFFSET	TYPE	LEGEND	SIZE (IN x IN)	AREA FT ²	SIGN FACES	POST SIZE (IN)	THICKNESS (IN)		REMARKS
										FRAMED	UNFRAMED	
10	1	20+46.00	LT	D3-101		(2)36x8	4.00	E/W	2.5" PT	0.125		BLOCK 4000
						(2)42x12	7.00	N/S		0.125	BLOCK 7100; LETTERING-B	
						30x30	6.25	E		0.125		
10	2	21+10.00	RT	S1-1		36x36	9.00	W	2.5" PT		0.125	
						24x12	2.00	W		0.125		
						36x36	9.00	W	2.5" PT		0.125	
10	3	23+56.00	RT	S1-1		36x36	9.00	W	2.5" PT		0.125	
						24x12	2.00	W		0.125		
						36x36	9.00	E		0.125	MOUNT ON LIGHT POLE	
10	4	23+78.00	LT	S1-1		36x36	9.00	E			0.125	
						24x12	2.00	E		0.125		
						(2)30x8	2.67	E/W	2.5" PT	0.125	BLOCK 4100	
10	5	24+10.00	RT	D3-101		(2)42x8	4.67	N/S		0.125		BLOCK 7200
						30x30	6.25	S				

SIGN SALVAGE SUMMARY			
SHEET NO.	STATION	OFFSET	REMARKS
6	20+45.60	21.3 LT	PATTERSON ST 4000, MADELYNNE DR 7100, STOP
6	21+18.12	18.5 RT	SCHOOL CROSSING
6	23+61.48	20.5 RT	SCHOOL CROSSING
6	24+10.43	30.1 RT	IRENE DR 4100, MADELYNNE DR 7200, STOP
6	24+36.38	20.0 LT	SCHOOL CROSSING, SCHOOL CROSSING AHEAD

SIGNING NOTES

- THE LETTERING FOR NAMES OF STREETS ON STREET NAME SIGNS SHALL BE COMPOSED OF A COMBINATION OF LOWER-CASE LETTERS WITH INITIAL UPPER-CASE LETTERS I.A.W. M.U.T.C.D. SECTION 2D.43.
- PT = PERFORATED TUBE
- THE CONTRACTOR SHALL ENSURE THAT 7-FT OF CLEARANCE IS PROVIDED BETWEEN THE BOTTOM OF THE SIGN AND THE SIDEWALK.
- ALL SALVAGED SIGNS SHALL BE RETURNED TO THE ANCHORAGE MUNICIPAL SIGN SHOP (907-343-4384).



1 GAP LADDER CROSSWALK STRIPING
11 NTS

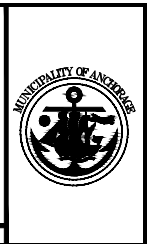
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TOPOGRAPHY		
PROFILE		
STORM SEWER		
WATER/SANITARY SEWER		
GAS		
TELEPHONE		
ELECTRIC		
DESIGN		
QUANTITIES		
PRELIMINARY/FINAL		
MUNICIPAL/STATE		

FIELD BOOKS	TBM NO.	LOCATION	ELEV.	REV.	DATE	DESCRIPTION	BY

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TRAFFIC ENGINEERING DEPARTMENT
 22-22 SCENIC PARK ELEMENTARY SCHOOL PEDESTRIAN IMPROVEMENTS
SIGN SUMMARY AND SALVAGE
 SCALE HOR. NTS VER. NTS GRID SW1739, SW1740 DATE APR, 2023 STATUS SHEET 11 of 14

ELECTRICAL LEGEND

EXISTING	PROPOSED	
		ELECTROLIER
		TYPE 1A JUNCTION BOX
		TYPE 2 JUNCTION BOX
		LOAD CENTER
		UNDERGROUND CONDUIT
		CIRCUIT BREAKER
		WATTHOUR METER

ABBREVIATIONS

A	AMPERE
BCU	BARE COPPER
C	CONDUIT
CEA	CHUGACH ELECTRIC ASSOCIATION
CKT	CIRCUIT
CU	COPPER
G	GROUND CONDUCTOR
KVA	KILO-VOLT-AMPERES
RMC	(GALVANIZED) RIGID METAL CONDUIT
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLTS
W	WATTS

GENERAL ELECTRICAL NOTES

1. CALL BEFORE YOU DIG. HAVE ALL UTILITIES, PROPERTY LINES AND EASEMENTS LOCATED PRIOR TO STARTING WORK. IMMEDIATELY NOTIFY THE ENGINEER IN THE EVENT OF CONFLICTS.
2. ELECTRICAL IMPROVEMENTS ARE NOT PERMITTED TO BE INSTALLED OUTSIDE OF THE RIGHT-OF-WAY. IMMEDIATELY NOTIFY THE ENGINEER IN THE EVENT OF CONFLICTS.
3. EXISTING EQUIPMENT LOCATIONS BASED ON AS-BUILT DRAWINGS AND SURVEY DATA. FIELD VERIFY ALL LOCATIONS PRIOR TO COMMENCING WORK.
4. CONDUIT RUNS SHALL BE RMC UNLESS OTHERWISE NOTED.
5. PROVIDE SCOTCHCAL 220 DECALS ON EXTERIOR OF LOAD CENTERS DENOTING OWNER (MOA) AND PURPOSE (LU).
6. PROVIDE ARC FLASH WARNING LABELS WITH INCIDENT ENERGY LEVEL VALUES AND PERSONNEL PROTECTIVE EQUIPMENT (PPE) REQUIREMENTS ON EACH PIECE OF EQUIPMENT IN ACCORDANCE WITH NEC ARTICLE 110.16 AND NFPE 70E.
7. PROVIDE LABELS INDICATING MAXIMUM AVAILABLE FAULT CURRENT ON EACH PIECE OF SERVICE EQUIPMENT IN ACCORDANCE WITH NEC ARTICLE 110.24.
8. VERIFY FAULT CURRENT AND ARC FLASH CALCULATION PARAMETERS MATCH FIELD CONDITIONS PRIOR TO INSTALLING LABELS ON SERVICE EQUIPMENT. DOCUMENT ANY DIFFERENCES AND THE ENGINEER WILL PROVIDE REVISED CALCULATIONS.

VOLTAGE DROP CALCULATION – LC "B"

1-PH, 3 WIRE CONFIGURATION WITH A POWER-FACTOR OF 0.9, 1 COPPER CONDUCTOR PER PHASE IN RMC.

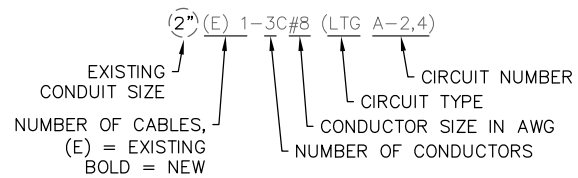
CKT #	SEGMENT SIZE (AWG)	SEGMENT LENGTH (FT)	VOLT	LOAD (KVA)	TOTAL (AMPS)	SEG. (%VD)
5,7	#8	850	240	0.1	0.5	0.76

INTERSECTION ILLUMINANCE – MADELYNNE DRIVE

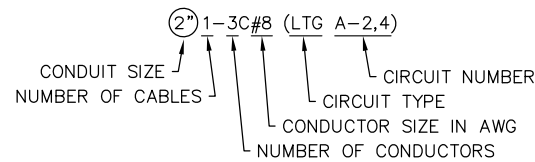
CROSS STREET	AVERAGE ILLUMINANCE	UNIFORMITY (AVE/MIN)	IESNA INTERSECTION TYPE	PEDESTRIAN CONFLICT
IRENE DRIVE	2.60 FC	3.00:1	LOCAL/LOCAL	MEDIUM

LUMINAIRE SCHEDULE

MANUFACTURER	GE OR APPROVED EQUAL
MODEL	ERL2
LIGHT SOURCE	LED
WATTAGE	278W
COLOR TEMP	4,000K
MINIMUM CRI	70
INITIAL OUTPUT	30,000 LUM
VOLTAGE	240V
PHOTOCELL	YES, 7-PIN
LENS TYPE	CUT OFF
IES DISTRIBUTION	M-C-3
UL LISTED	YES
SHIELDED	NO
WARRANTY	10 YEARS



EXISTING CONDUIT AND NEW/EXISTING CABLE TAG



NEW CONDUIT AND CABLE TAG

ELECTROLIER SCHEDULE

POLE	NORTHING	EASTING	WATTS	LUMENS	VOLTS	LIGHTING DISTRIBUTION	BASE TYPE	FOUNDATION	MOUNTING HEIGHT	SHAFT LENGTH	ARM LENGTH	CIRCUIT	SHEET NO.	REMARKS
1	328280.634	372859.739	39	4,700	240	M-C-2	FIXED	PILE	30	27	8	2,4	13	POTHOLE FOUNDATION

JUNCTION BOX SCHEDULE

J-BOX	STATIONING	OFFSET	TYPE	REMARKS
0	328280.419	372856.324	2	EXISTING TO REMAIN
1	328286.675	372521.556	2	EXISTING TO REMAIN
2	328327.638	372512.125	2	EXISTING TO REMAIN
3	328477.599	372504.802	2	EXISTING TO REMAIN
4	328603.247	372511.683	2	REPLACE EXISTING 1A AT THIS LOCATION
5	328752.997	372502.016	1A	NEW
6	328797.696	372525.918	1A	NEW

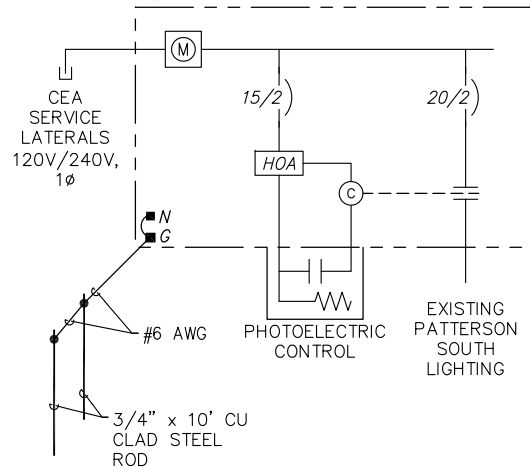
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TOPOGRAPHY	---	---								
PROFILE	---	---								
STORM SEWER	---	---	DESIGN							
WATER/SANITARY SEWER	---	---	STAKING							
GAS	---	---								
TELEPHONE	---	---								
ELECTRIC	---	---								
DESIGN	---	---	ASBUILT							
QUANTITIES	---	---	CONTRACTOR							
PRELIMINARY/FINAL	---	---	INSPECTOR							
MUNICIPAL/STATE	---	---								

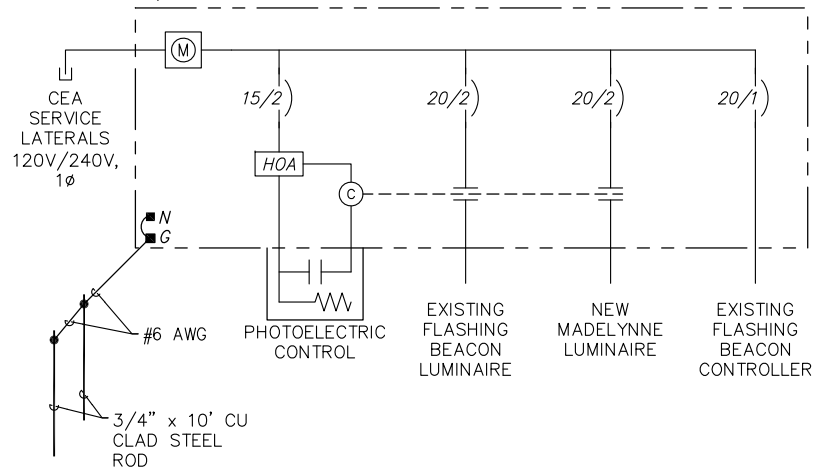
TRAFFIC ENGINEERING DEPARTMENT
 22-22 SCENIC PARK ELEMENTARY SCHOOL PEDESTRIAN IMPROVEMENTS
LEGEND, ABBREVIATIONS, AND SCHEDULES

SCALE	HOR. N/A VER. N/A	GRID	SW1740	DATE	APR 2022	STATUS		12 of 14 SHEET
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EXISTING LC "1": TYPE 1A LOAD CENTER
100A, 120V/240V, 1Ø
10,000 AIC RATING



EXISTING LC "2": TYPE 1A LOAD CENTER
100A, 120V/240V, 1Ø
10,000 AIC RATING



SUMMARY OF EXISTING LOAD CENTER "1"

LOAD CENTER TYPE:	TYPE 1A (MOA)
SERVING UTILITY:	CHUGACH ELECTRIC ASSOCIATION
SERVICE CONDUIT TYPE:	RIGID METAL CONDUIT
LOCATION DATA	
LOAD CENTER:	PATTERSON STREET
POWER SOURCE:	EXISTING LINE EXTENSION
PHOTOELECTRIC CONTROL:	AT LOAD CENTER
SERVICE VOLTAGE:	120/240V, 1-PHASE, 3-WIRE
PROVIDE METER SOCKET:	EXISTING
MAIN BREAKER:	240V, 100A, 2-POLE
CONTACTOR:	EXISTING 240V, 30A, 12-POLE
AIC RATING:	10,000A

PANEL A										
POLE	AMP TRIP	DESCRIPTION	POLE KVA	AØ	BØ	POLE KVA	DESCRIPTION	AMP TRIP	POLE	
1	20/2	PATTERSON SOUTH LIGHTING*	0.1	0.2	0.1	0.1	PHOTOCELL	15/2	2	
3			0.1	0.2	0.1				4	
5			0.0	0.0	0.0				6	
7			0.0	0.0	0.0				8	
9			0.0	0.0	0.0				10	
11			0.0	0.0	0.0				12	
13			0.0	0.0	0.0				14	
15			0.0	0.0	0.0				16	
17			0.0	0.0	0.0				18	
* = THROUGH CONTACTOR			0.2	0.2	TOTAL PANEL A KVA				0.4	
									AMPS	1.8

SHORT CIRCUIT CALCULATION - LC "1"

TRANSFORMER RATING	25KVA
VOLTAGE	120/240V
TRANSFORMER IMPEDANCE	1.2%
LET-THRU SHORT CIRCUIT CURRENT	8,681A
LENGTH TO FAULT	20'
SERVICE CONDUCTOR SIZE	#2 AWG
SERVICE CONDUIT	NON-METALLIC
MAX FAULT CURRENT	6,704A
DATE CALCULATED	----

ARC FLASH CALCULATION - LC "1"

INCIDENT ENERGY	0.77 CAL/CM ²
ARC-FLASH BOUNDARY	13.6"
ARC-FLASH PPE CATEGORY	1
NOMINAL SYSTEM VOLTAGE	240V
LIMITED APPROACH BOUNDARY	42"
RESTRICTED APPROACH BOUNDARY	12"
CALCULATION DATE	----

SUMMARY OF EXISTING LOAD CENTER "2"

LOAD CENTER TYPE:	TYPE 1A (MOA)
SERVING UTILITY:	CHUGACH ELECTRIC ASSOCIATION
SERVICE CONDUIT TYPE:	RIGID METAL CONDUIT
LOCATION DATA	
LOAD CENTER:	PATTERSON STREET
POWER SOURCE:	EXISTING LINE EXTENSION
PHOTOELECTRIC CONTROL:	AT LOAD CENTER
SERVICE VOLTAGE:	120/240V, 1-PHASE, 3-WIRE
PROVIDE METER SOCKET:	EXISTING
MAIN BREAKER:	240V, 100A, 2-POLE
CONTACTOR:	EXISTING 240V, 30A, 12-POLE
AIC RATING:	10,000A

PANEL A										
POLE	AMP TRIP	DESCRIPTION	POLE KVA	AØ	BØ	POLE KVA	DESCRIPTION	AMP TRIP	POLE	
1	15/2	FLASHING BEACON LUMINAIRE*	0.1	0.5	0.4	0.1	BEACON CONTROL	20/1	2	
3			0.1	0.1	0.1				4	
5	20/2	NEW MADELYNNE LUMINAIRE*	0.1	0.2	0.1	0.1	PHOTOCELL	15/2	6	
7			0.1	0.1	0.0				8	
9			0.0	0.0	0.0				10	
11			0.0	0.0	0.0				12	
13			0.0	0.0	0.0				14	
15			0.0	0.0	0.0				16	
17			0.0	0.0	0.0				18	
* = THROUGH CONTACTOR			0.7	0.2	TOTAL PANEL A KVA				0.9	
									AMPS	3.5

SHORT CIRCUIT CALCULATION - LC "2"

TRANSFORMER RATING	25KVA
VOLTAGE	120/240V
TRANSFORMER IMPEDANCE	1.2%
LET-THRU SHORT CIRCUIT CURRENT	8,681A
LENGTH TO FAULT	20'
SERVICE CONDUCTOR SIZE	#2 AWG
SERVICE CONDUIT	NON-METALLIC
MAX FAULT CURRENT	6,704A
DATE CALCULATED	----

ARC FLASH CALCULATION - LC "2"

INCIDENT ENERGY	0.77 CAL/CM ²
ARC-FLASH BOUNDARY	13.6"
ARC-FLASH PPE CATEGORY	1
NOMINAL SYSTEM VOLTAGE	240V
LIMITED APPROACH BOUNDARY	42"
RESTRICTED APPROACH BOUNDARY	12"
CALCULATION DATE	----

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ELECTRIC	---	---								
DESIGN	---	---								
QUANTITIES	---	---								
PRELIMINARY/FINAL	---	---								
MUNICIPAL/STATE	---	---								

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213 W. FIREWEED LANE
ANCHORAGE, AK 99503
(907) 278-7933
LICENSE NO. AEC705

STATE OF ALASKA
49TH
ROY N PACE
EE-12053
REGISTERED PROFESSIONAL ENGINEER



TRAFFIC ENGINEERING DEPARTMENT
22-22 SCENIC PARK ELEMENTARY SCHOOL PEDESTRIAN IMPROVEMENTS
POWER ONE-LINE AND LOAD CENTER SCHEDULES
SCALE: HOR. N/A VER. N/A
GRID: SW1740
DATE: APR 2022
STATUS: _____
14 of 14 SHEET
FILE NO. -