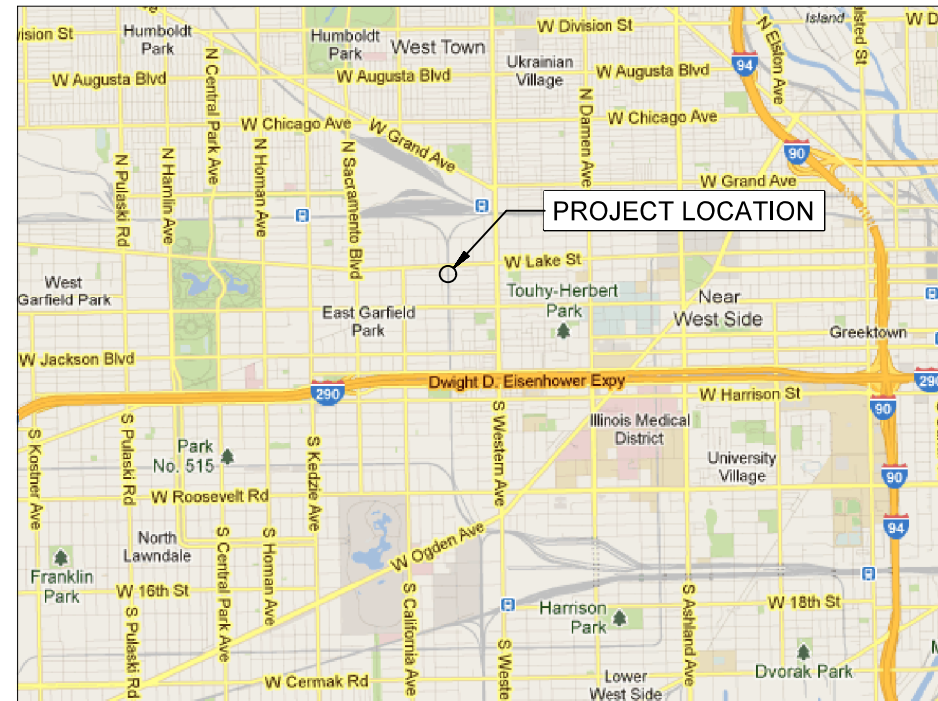
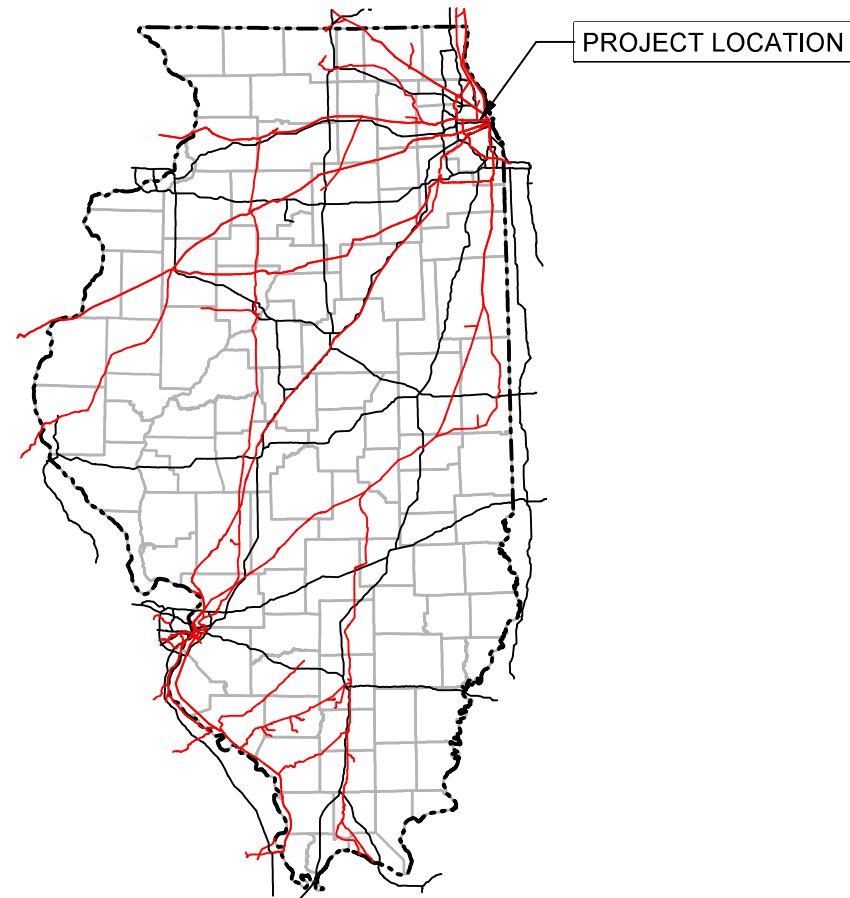




ENGINEERING DESIGN & CONSTRUCTION



**2610 WEST MAYPOLE AVENUE
CHICAGO, IL**

Project Location Map

MP 0.87 ROCKWELL SUB. UNION PACIFIC RAILROAD MAYPOLE AVENUE BRIDGE REMOVAL

FINAL PLANS

**CREATE PROJECT#:
WAT-UP-XXB-003-B-FE**

WORK ORDER: 496
PROJECT NUMBER: 64527
BUDGET REFERENCE: N/A

PROJECT INDEX

PROJECT DESIGN

DESCRIPTION

G-001	COVER SHEET WITH VICINITY MAP
G-002	PROJECT INDEX & REVISION SHEET
G-003	GENERAL NOTES & PROJECT CONTACTS
G-004	ABBREVIATIONS & LEGEND
G-005	CONTROL POINTS & ROADWAY GEOMETRY
P-001	RAILROAD PLAN & PROFILE
R-001	ROADWAY EX. CONDITIONS & REMOVAL PLAN
R-002	ROADWAY PROPOSED PLAN
R-003	ROADWAY DETAILS
R-004	ROADWAY DETAILS
R-005	SEWER PLAN & PROFILE
R-006	WATERMAIN PLAN & PROFILE
R-007	WATERMAIN DETAILS
R-008	WATERMAIN DETAILS
R-009	WATERMAIN DETAILS
R-010	SEWER CONSTRUCTION DETAILS
R-011	SEWER CONSTRUCTION DETAILS
R-012	SEWER CONSTRUCTION DETAILS
R-013	SEWER CONSTRUCTION DETAILS
R-014	SEWER CONSTRUCTION DETAILS
R-015	CONCRETE BARRIER IDOT STANDARD DETAILS
L-001	PROPOSED LIGHTING PLAN
L-002	LIGHTING DETAILS
L-003	LIGHTING DETAILS
L-004	LIGHTING DETAILS
L-005	LIGHTING DETAILS
L-006	LIGHTING DETAILS
T-001	RAILROAD TYPICAL SECTION
T-002	MAYPOLE AVENUE TYPICAL SECTION
T-003	MAYPOLE AVENUE TYPICAL SECTION
S-001	STRUCTURAL REMOVAL DETAILS

BILL OF MATERIAL TABLE INDEX

BILL OF MATERIAL

LOCATION

REMOVAL	R-001
RESTORATION	R-002, R-005, R-006
LIGHTING	L-001
STRUCTURES	S-001

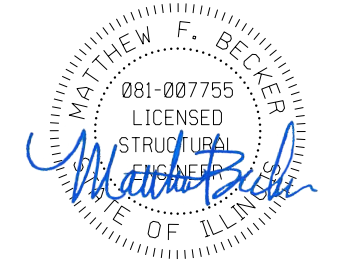
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 Date: 5/23/2021



EXPIRATION DATE: 11-30-2021
 DATE: 05-28-2021
 (CIVIL SHEETS)



EXPIRATION DATE: 11-30-2021
 DATE: 05-28-2021
 (ELECTRICAL SHEETS)



EXPIRATION DATE: 11-30-2022
 DATE: 05-28-2021
 (STRUCTURAL SHEETS)

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CONSTRUCTION

REVISION	BY	DATE	DESCRIPTION



DRAWN BY:	WORK ORDER:
KP	496
CHECKED BY:	PID:
TK	64527
DATE:	BUDGET REF:
05/28/21	
SCALE:	SHEET NUMBER
N.T.S	G-002

UNION PACIFIC RAILROAD	Director Structures Design
LOCATION & DESCRIPTION:	
MP 0.87 ROCKWELL SUBDIVISION MAYPOLE AVENUE BRIDGE REMOVAL	
SHEET TITLE:	
PROJECT INDEX & REVISION SHEET	

GENERAL NOTES

- UPRR forces will perform all track work, with the exception of removal of existing tracks. UPRR will cut the existing rails and the contractor shall remove and dispose of all track material with the bridge removal work. The Contractor will be responsible for constructing proposed track bed up to the top of the sub-ballast layer. UPRR will furnish & install all ballast, ties, rail, and other track materials.
- Existing and new track within the project limits will be surfaced and lined by UPRR forces once all other work is complete.
- Contractors shall notify Service Alert, (800) 642-2444, UPRR Fiber Optics Hotline (800) 336-9193, and the Chicago Utility Alert Network (312) 744-7000 48 hours prior to any excavation. The USA Authorization Numbers shall be kept at the job site.
- No work whatsoever shall be commenced without first notifying the UPRR Engineer.
- The Contractor shall comply with all Federal, State, County, and City Laws and Ordinances and Regulations of the Department of Industrial Relations, OSHA, NPDES and Industrial Accident Commission related to the safety and character of the work, equipment and labor personnel.
- Contractor shall be responsible for coordinating with all Utility agencies.
- Contractor shall protect in place (by any means necessary) all existing utilities to remain unless otherwise specified herein, contractor shall be responsible for the complete repair at his expense, for any damage to existing utilities, structures, or other site features, as a result of his work.
- Prior to placing curbs, pavements, base, subbase, track, etc., all underground utilities shall be installed, backfill completed, and the Engineer notified by each of the utility companies having facilities within the work area, that the utility installation has satisfactorily passed acceptance tests.
- All existing underground utilities within the UPRR ROW, that are not to be re-used shall be abandoned in place. All existing pipelines to be abandoned in place shall be cement slurry filled and capped at least 3'-0" below top of proposed subgrade.
- Contractor shall verify locations and elevations of existing utilities whether known or unknown prior to beginning construction.
- Any underground structures such as cesspools, cisterns, mining shafts, tunnels, septic tanks, wells, and pipelines not located prior to construction shall be brought to the attention of the engineer for determination of appropriate action such as removal or treatment in a manner judged suitable to the engineer.
- Contractor shall coordinate location of all proposed utilities with UPRR to assure accuracy of utility connections and compliance with local codes.
- Any existing conditions found to be a variance with these drawings must be immediately reported to the Engineer.
- Contractor shall maintain and clean to the satisfaction of the Engineer, all access and service roads used during construction.
- Contractor shall perform all construction in such a manner as to protect adjacent existing buildings, and other site elements which are to remain in service.
- Contractor shall provide As-built Drawings for all improvements.
- No field changes will be permitted without direct written authorization from the UPRR Engineer or his representative.

- Contractor shall coordinate work which affects adjacent property owners. Any questions or agreements between adjacent property owners and contractor shall be made in writing. A copy of such agreement shall be provided to the UPRR Engineer or his representative.
- The contractor is responsible for preparing a Stormwater Pollution Prevention Plan (SWPPP) to comply with State regulations.
- Right-of-way lines shown on the plans were taken from existing UPRR right-of-way map and are approximate.
- Match lines for sheets are based on the existing Main Line stationing unless otherwise specified.
- Track laying, ballasting, and installation of road crossing panels will be done by UPRR unless otherwise stated.
- The contractor is responsible for the removal of all pavement markings that will be in conflict with the proposed work.
- Contractor shall comply with all IDOT specifications for construction of public improvements requirements.
- Contractor shall maintain at least one access to all affected business. If necessary, multiphase construction shall be utilized.
- All work must be coordinated with the UPRR to minimize track outage time and disruption of train service. The contractor shall submit for approval his proposed sequence of operations prior to the start of construction.
- Removal of existing viaduct lighting equipment will be performed by the City of Chicago, Department of Streets and Sanitation, Bureau of Electric. The contractor must schedule and coordinate this work with the city. All expenses or charges by the city related to this work will be incidental to this contract.
- The contractor shall take special care to avoid damage to the existing utilities under the public streets from excessive surface loads during construction activities. Video inspection of the existing sewer shall be performed before and after construction in accordance with the requirements of the City of Chicago Department of Water Management. Any damage to the existing utilities caused by work under this contract must be repaired or replaced at the contractor's expense.
- All frames and lids removed from abandoned sewers and appurtenances must be returned to the Chicago Department of Water Management, Sewer Section.
- In case of damage to the City of Chicago sewers, private and public drains, sewer structures and/or bench monuments, the contractor shall immediately contact the Department of Water Management at (312) 747-7892 or (312) 747-7893.
- Stockpiling of removed materials and/or construction debris on the job site will not be permitted and shall be removed from the job site each and every day and disposed of in accordance with article 202.03 of the Standard Specifications. Failure to comply with this requirement shall be considered a traffic control deficiency and will be subject to charges in accordance with the item Traffic Control Complete.

PROJECT CONTACTS

CONTACT	PHONE NUMBER	UPRR
Curt Nystron	(515) 298-1131	Construction Field Manager
Adam Studts	(402) 544-3541	Structures Design Sr. Manager
Paul Pino	(402) 544-3582	Information Technology - Fiber
Stan Dulinski	(402) 544-0353	Real Estate - Utilities

PHONE NUMBER	GENERAL
(800) 336-9193	CALL UPRR BEFORE YOU DIG
(888) 258-0808	CALL BEFORE YOU DIG (NATIONAL DIRECTORY)
(888) 877-7267	UPRR Response Management Communications Center (RMCC)

DESIGN CRITERIA

- UPRR Standard Plans and Specifications
- Illinois Department of Transportation (IDOT) Standard Specifications for Road and Bridge Construction
- Chicago Department of Transportation (CDOT) Regulations for Openings, Construction and Repair in the Public Way

SURVEY NOTES

- Railroad stationing for project profiles and alignments is based on stations established for chord definition spiraled curves at the centerline of the existing UPRR Main Line unless otherwise noted.
- The contractor is responsible for the preservation of all survey control monuments. In the event monuments are damaged or destroyed by the contractor, the Engineer will replace the monument solely at the contractor's expense.

TRAFFIC NOTES

- All barricades, warning signs, lights, devices, etc. for the guidance of vehicle traffic and pedestrians must conform to the Manual on Uniform Traffic Control Devices (MUTCD), current edition, IDOT and CDOT standards.
- The contractor will ensure that all barricades, signs, lights, and other devices installed by him are operational every day, including Sundays and holidays. The contractor shall make twice daily inspections of barricades, signs, lights and other devices installed by him to ensure proper placement and functioning of warning devices. In the event of severe weather conditions, the contractor must furnish any additional personnel required to properly maintain all traffic control devices. The contractor shall provide a manned 24-hour / 7 day a week contact number to respond to requestrequests and emergencies related to the placement and maintenance of the traffic control devices throughout the project duration.
- The contractor is responsible for the prompt replacement and/or repair of all traffic control devices and appurtenances damaged or disturbed due to construction.

BENCHMARKS

City of Chicago Benchmark: BM #276
6.4 feet north of south line of W Congress Parkway and 47.1 feet east of east line of S Washtenaw Avenue. Elev. = 14.66 (CCD)

	DATUM
HORIZONTAL	Illinois East State Plane (1201) North American Datum of 1983 (NAD83)
VERTICAL	Chicago City Datum (CCD)

REVISION	BY	DATE	DESCRIPTION

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CONSTRUCTION



DRAWN BY: KP	WORK ORDER: 496
CHECKED BY: TK	PID: 64527
DATE: 05/28/21	BUDGET REF:
SCALE: N.T.S	SHEET NUMBER G-003

UNION PACIFIC RAILROAD	Director Structures Design
LOCATION & DESCRIPTION: MP 0.87 ROCKWELL SUBDIVISION MAYPOLE AVENUE BRIDGE REMOVAL	
SHEET TITLE: GENERAL NOTES & PROJECT CONTACTS	

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5/25/2021

ABBREVIATIONS

MISCELLANEOUS

Ac.	Acres
Ave.	Avenue
Blvd.	Boulevard
Bldg.	Building
BNSF	BNSF Railway
C.Y.	Cubic Yards
Conc.	Concrete
Const.	Construct
°	Degree (s)
Dia.	Diameter
Dr.	Drive
Dwg.	Drawing
E	East
Elev.	Elevation
Exist.	Existing
'	Foot, Feet or Minute (s)
F.S.	Finished Surface
Horiz.	Horizontal
"	Inch, Inches or Second (s)
Inst.	Install
Inv.	Invert
Lt.	Left
L	Length
L.F.	Lineal Feet
Max.	Maximum
Min.	Minimum
N	North
NTS	Not to Scale
No.	Number
OH	Overhead
OHP	Overhead Power Line
PGL	Profile Grade Line
Prop.	Proposed
RR	Railroad
Rwy	Railway
R/W	Right of Way
Rt.	Right
S	South
S.F.	Square Feet
Sta.	Station
Std.	Standard
St.	Street
TT	Timetable
Twp.	Township
Typ.	Typical
UG	Underground
UPRR	Union Pacific Railroad
V	Velocity
Wt.	Weight
W	West
X-ing	Crossing

SIGNAL

ABS	Automatic Block Signal
ATC	Automatic Train Control
CTC	Centralized Traffic Control
DED	Dragging Equipment Detector
DTC	Direct Traffic Control
ELTO	Electric Lock Turnout
HBD	Hot Box Detector
HTTO	Hand Throw Turnout
HWD	High Wide Detector
POTO	Power Operated Turnout
TWC	Track Warrant Control
WILD	Wheel Impact Load Detector

STRUCTURES

Bldg.	Building
Br.	Bridge
CB	Catch Basin
CPT	Concrete Pile Trestle - Ballast Deck
CIP	Cast Iron Pipe
CMP	Corrugated Metal Pipe
CMPA	Corrugated Metal Pipe Arch
CSP	Corrugated Steel Pipe
Culv.	Culvert
DI	Drop Inlet
DPGBD	Deck Plate Girder - Ballast Deck
DPGOD	Deck Plate Girder - Open Deck
EBW	East Backwall
F.L.	Flowline
F.F.	Finished Floor
GIP	Galvanized Iron Pipe
Hdwl	Headwall
NBW	North Backwall
PSCT	Prestressed Concrete Trestle
RCA	Reinforced Concrete Arch
RCB	Reinforced Concrete Box
RCP	Reinforced Concrete Pipe
SBW	South Backwall
SSP	Smooth Steel Pipe
SPTBD	Steel Pile Trestle - Ballast Deck
SPTOD	Steel Pile Trestle - Open Deck
SPP	Structural Plate Pipe
TPGBD	Through Plate Girder - Ballast Deck
TPGOD	Through Plate Girder - Open Deck
TPTBD	Timber Pile Trestle - Ballast Deck
TPTOD	Timber Pile Trestle - Open Deck
TTBD	Through Truss - Ballast Deck
TTOD	Through Truss - Open Deck
TWB	Treated Wood Box
VCP	Vitrified Clay Pipe
Viad.	Viaduct
WBW	West Backwall
WIP	Wrought Iron Pipe

TRACK

ATR	Above Top of Rail
Align.	Alignment
BBR	Below Base of Rail
Cntrs.	Centers
CWR	Continuous Welded Rail
DSPD	Double Switch Point Derail
EOT	End of Track
HH	Head Hardened
Jtd.	Jointed Rail
LH	Left Hand
ML	Main Line
MM	Mile Marker
MP	Mile Post
NSC	Not Sufficient Clearance
OTM	Other Track Material
PCC	Point of Compound Curve
PC	Point of Curve
PCS	Point of Curve to Spiral
POC	Point on Curve
PF	1/2" Point of Frog
PI	Point of Intersection
PITO	Point of Intersection of Turnout
PS	Point of Spiral
PSC	Point of Spiral to Curve
POS	Point on Spiral
PT	Point of Tangent
POT	Point on Tangent
Pt. Sw.	Point of Switch
PVC	Point of Vertical Curve
PVI	Point of Vertical Intersection
PVT	Point of Vertical Tangent
RH	Right Hand
SH	Second Hand
SSPD	Single Switch Point Derail
TC	Track Centers
T.F.	Track Feet
Trk.	Track
UXO	Universal Cross-Over
X-Over	Cross-Over

UTILITIES

AIR	Compressed Air
F/O	Fiber Optic Cable
G	Gas Pipeline
OHP	Overhead Power Line
SS	Sanitary Sewer
Overhead Signal Line	Overhead Signal Line
UGS	Underground Signal Line
Steam Line	Steam Line
S	Storm Sewer
T	Telephone
UGE	Underground Electric
W	Water Main
Underground Wire	Underground Wire
UD	Under Drain
Water Valve	Water Valve
Gas Buffalo Box	Gas Buffalo Box
Manhole	Manhole
Catch Basin	Catch Basin
Fire Hydrant	Fire Hydrant
Junction Box Electric	Junction Box Electric
Junction Box Telephone	Junction Box Telephone
Junction Box Water	Junction Box Water
Power Pole	Power Pole
Generator	Generator

TRACK

Existing Mainline	Existing Mainline
Existing Siding or Spur	Existing Siding or Spur
Proposed	Proposed
Remove	Remove
Shift	Shift
Relay	Relay
Future	Future
Foreign Railroad or Industry	Foreign Railroad or Industry
In Buildings or Under Structures	In Buildings or Under Structures
Turnout	Turnout
Wheel Stop	Wheel Stop
Bumping Post	Bumping Post
Earthen Bumper	Earthen Bumper
Inert Retarder	Inert Retarder
Dowty Retarder	Dowty Retarder
Derail	Derail
Switch Point Derail or Double Switch Point Derail	Switch Point Derail or Double Switch Point Derail

PROPERTY

Section Line	Section Line
Center Section Line	Center Section Line
Parcel or Easement Line	Parcel or Easement Line
Right of Way	Right of Way
Former Right of Way	Former Right of Way
Right of Way to be Acquired	Right of Way to be Acquired
Foreign Right of Way	Foreign Right of Way

SYMBOLS

ROAD CROSSING WARNING DEVICES

Crossbuck Sign	Crossbuck Sign
Flashing Light Warning Device	Flashing Light Warning Device
Flashing Light Warning Device with Gate	Flashing Light Warning Device with Gate
Cantilever Flashing Light Warning Device	Cantilever Flashing Light Warning Device
Cantilever Flashing Light Signal with Gate	Cantilever Flashing Light Signal with Gate

SIGNAL

Absolute Signal	Absolute Signal
Signal Bridge	Signal Bridge
Cantilever Signal	Cantilever Signal
ACS or CTC Signal	ACS or CTC Signal
Dwarf Signal	Dwarf Signal
Begin CTC	Begin CTC
Microwave Tower	Microwave Tower
AEI	AEI
Battery Box	Battery Box
Dragging Equipment Detector	Dragging Equipment Detector
Generator	Generator
Hot Box Detector	Hot Box Detector
Hot Air Blower	Hot Air Blower
Plastibeton	Plastibeton

STRUCTURES

Culvert	Culvert
Culvert with Headwalls	Culvert with Headwalls
Double Culvert	Double Culvert
Railroad Bridge	Railroad Bridge
Highway Overpass	Highway Overpass
Highway Underpass	Highway Underpass
Tunnel	Tunnel
Retaining Wall	Retaining Wall
Building	Building
Flag Pole	Flag Pole

LIGHTING

Light Pole	Light Pole
Light Tower	Light Tower

SIGNS

Sign	Sign
Yard Limit	Yard Limit
1 Mile to Yard Limit	1 Mile to Yard Limit
Whistle Post	Whistle Post
Flanger	Flanger
Station	Station
Reduce Speed	Reduce Speed
Resume Speed	Resume Speed

FENCES

Barbed Wire	Barbed Wire
Chain Link	Chain Link
Ornamental Fence	Ornamental Fence
Snow / Sand	Snow / Sand

ROADS

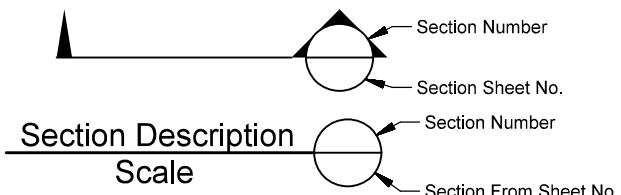
Paved Road	Paved Road
Unimproved Road	Unimproved Road
Interstate Highway	Interstate Highway
Federal Highway	Federal Highway
State Highway	State Highway
County Highway	County Highway

OTHER

Wetlands	Wetlands
River or Lake	River or Lake
Embankment	Embankment
Flow Line	Flow Line
Milepost	Milepost
Milemarker	Milemarker
Revision Number	Revision Number
Revision Cloud	Revision Cloud
Tree	Tree
Bush	Bush
Stump	Stump
Traffic Signal	Traffic Signal
E-T-01 Soil Boring	E-T-01 Soil Boring
CP-01 Control Point	CP-01 Control Point

CONSTRUCTION

Proposed Note (Work by Contractor)	Removal Note (Work by Contractor)
Proposed Note (Work by Others)	Removal Note (Work by Others)
Cut Lines	
Fill Lines	
Profile Grade Line	
Shift Note (Work by Contractor)	
Shift Note (Work by Others)	



 Alfred Benesch & Company 35 W. Wacker Drive Suite 3300 Chicago, Illinois 60601 312-565-0450 Job No. 210070.11		DRAWN BY: KP	WORK ORDER: 496	UNION PACIFIC RAILROAD Director Structures Design
		CHECKED BY: TK	PID: 64527	
DATE: 05/28/21		BUDGET REF:		LOCATION & DESCRIPTION: MP 0.87 ROCKWELL SUBDIVISION MAYPOLE AVENUE BRIDGE REMOVAL
SCALE: N.T.S		SHEET NUMBER: G-004		

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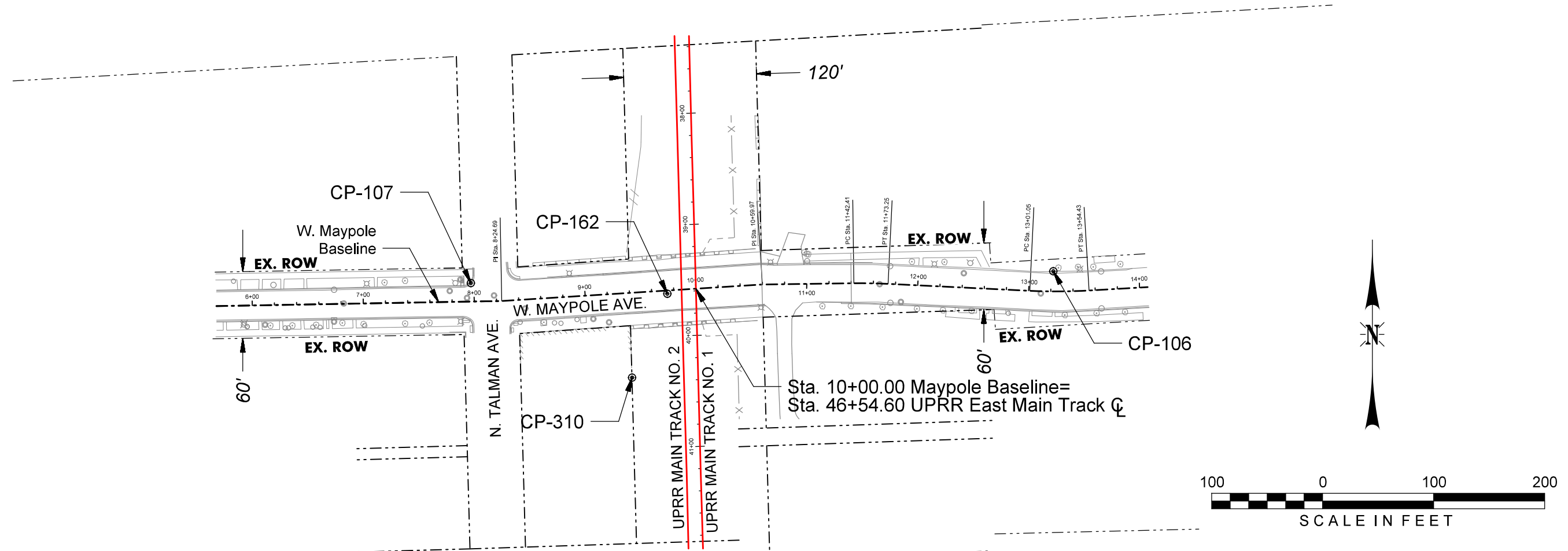
Control Points

Control Point No.	Northing	Easting	Elevation
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107	1900872.753	1158804.929	17.928
162	1900863.103	1158981.906	28.964
310	1900787.641	1158950.161	34.218

Existing Maypole Baseline

DESCRIPTION	DELTA	DEGREE	TANGENT	RADIUS	LENGTH	P C	P I	P T
PI							STA. 5+67.75	
							N 1900852.05	
							E 1158575.77	
PI							STA. 8+24.69	
							N 1900856.51	
							E 1158832.67	
PI							STA. 10+59.97	
							N 1900871.41	
							E 1159067.47	
CURVE 1	3°32'02" RT	11°27'33"	15.42'	500.00'	30.84'	STA. 11+42.41	STA. 11+57.83	STA. 11+73.25
						N 1900872.51	N 1900872.71	N 1900871.96
						E 1159149.91	E 1159165.33	E 1159180.74
CURVE 2	6°07'03" LT	11°27'33"	26.72'	500.00'	53.39'	STA. 13+01.05	STA. 13+27.77	STA. 13+54.43
						N 1900865.78	N 1900864.49	N 1900866.04
						E 1159308.39	E 1159335.07	E 1159361.75
PI							STA. 14+07.35	
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ISSUED FOR CONSTRUCTION

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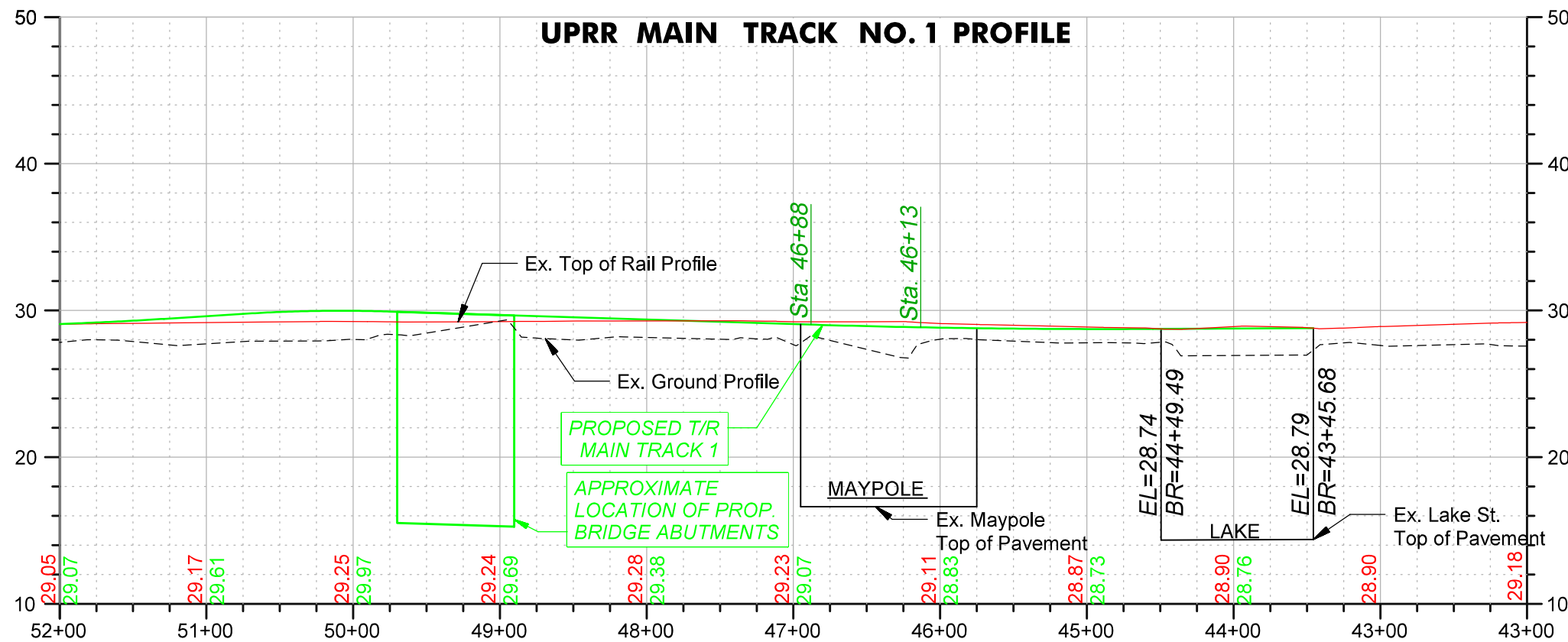
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 Alfred Benesch & Company
 35 W. Wacker Drive Suite 3300
 Chicago, Illinois 60601
 312-565-0450 Job No. 210070.11



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CHECKED BY: TK	PID: 64527
DATE: 05/28/21	BUDGET REF:
SCALE: 1" = 100'	SHEET NUMBER: G-005

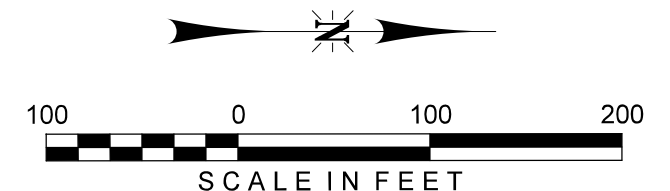
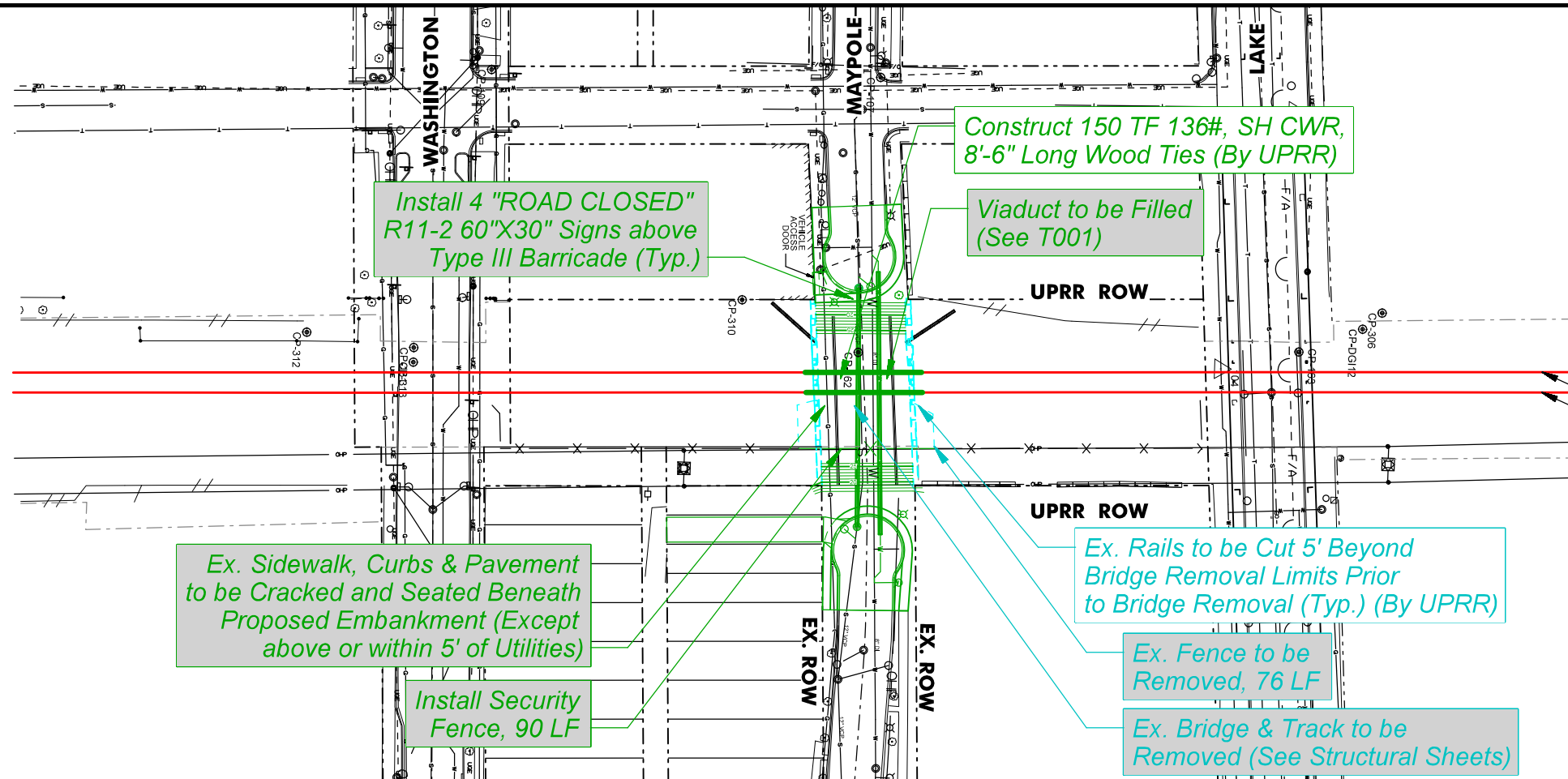
UNION PACIFIC RAILROAD Director Structures Design
 LOCATION & DESCRIPTION: MP 0.87 ROCKWELL SUBDIVISION MAYPOLE AVENUE BRIDGE REMOVAL
 SHEET TITLE: CONTROL POINTS & ROADWAY GEOMETRY

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 5/25/2021



NOTES:

1. All Trackwork to be performed by UPRR forces. The contractor shall construct the track bed up to the top of subballast.
2. All work shall be coordinated with UPRR to minimize track outage time.
3. Viaduct lighting equipment to be removed by the City of Chicago. Contractor shall coordinate removal with City.



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REVISION	BY	DATE	DESCRIPTION

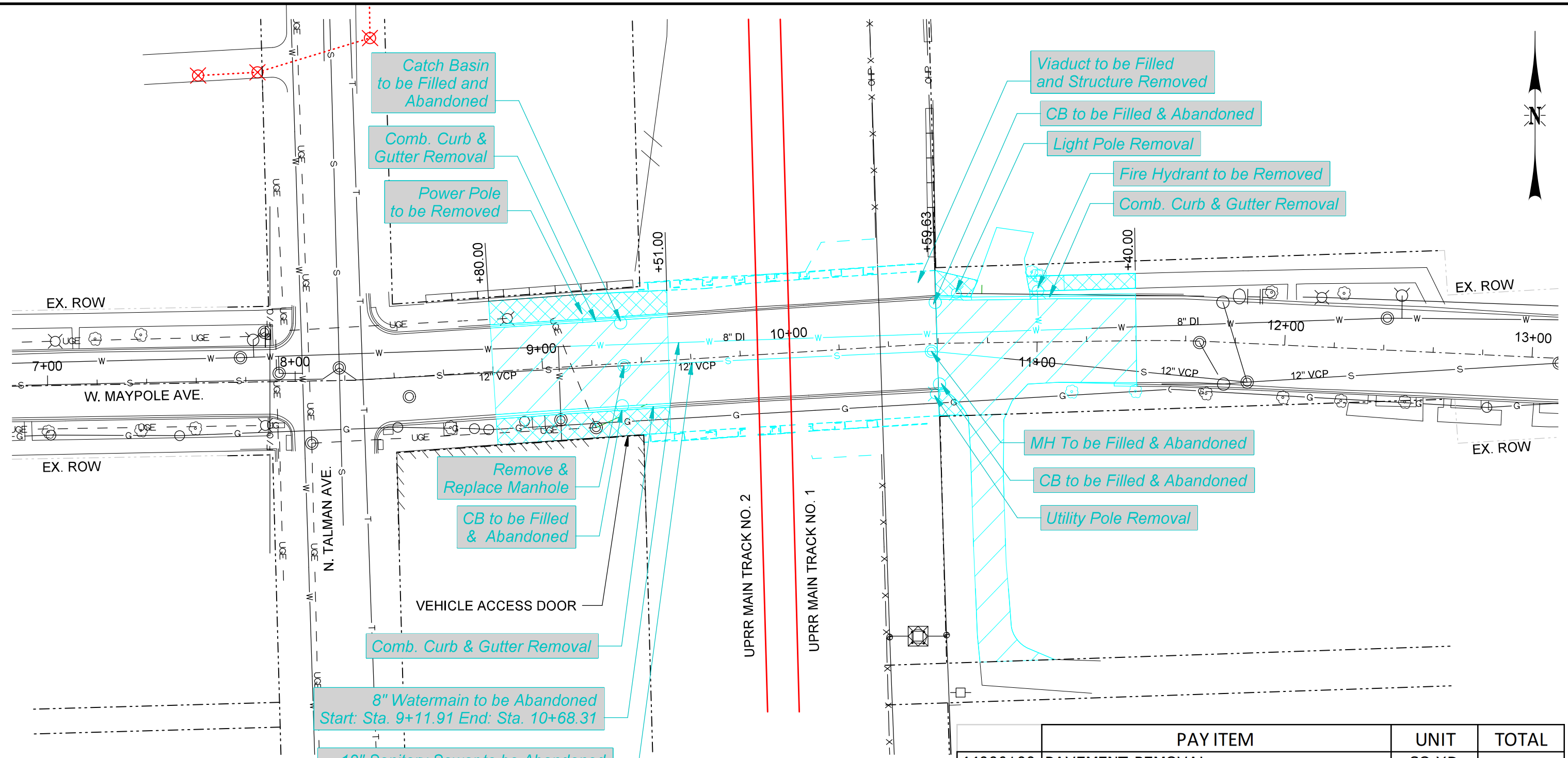
benesch
 Alfred Benesch & Company
 35 W. Wacker Drive Suite 3300
 Chicago, Illinois 60601
 312-565-0450 Job No. 210070.11



DRAWN BY: KP	WORK ORDER: 496
CHECKED BY: TK	PID: 64527
DATE: 05/28/21	BUDGET REF:
SCALE: 1" = 100'	SHEET NUMBER P-001

UNION PACIFIC RAILROAD Director Structures Design
 LOCATION & DESCRIPTION:
 MP 0.87 ROCKWELL SUBDIVISION
 MAYPOLE AVENUE BRIDGE REMOVAL
 SHEET TITLE:
 RAILROAD PLAN & PROFILE

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 5/25/2021



LEGEND

	Pavement Removal
	Sidewalk Removal

	PAY ITEM	UNIT	TOTAL
44000100	PAVEMENT REMOVAL	SQ YD	766
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	269
44000600	SIDEWALK REMOVAL	SQ FT	1902
X0327771	SAWCUT AND SEAL NEW JOINTS	FOOT	218



WARNING !
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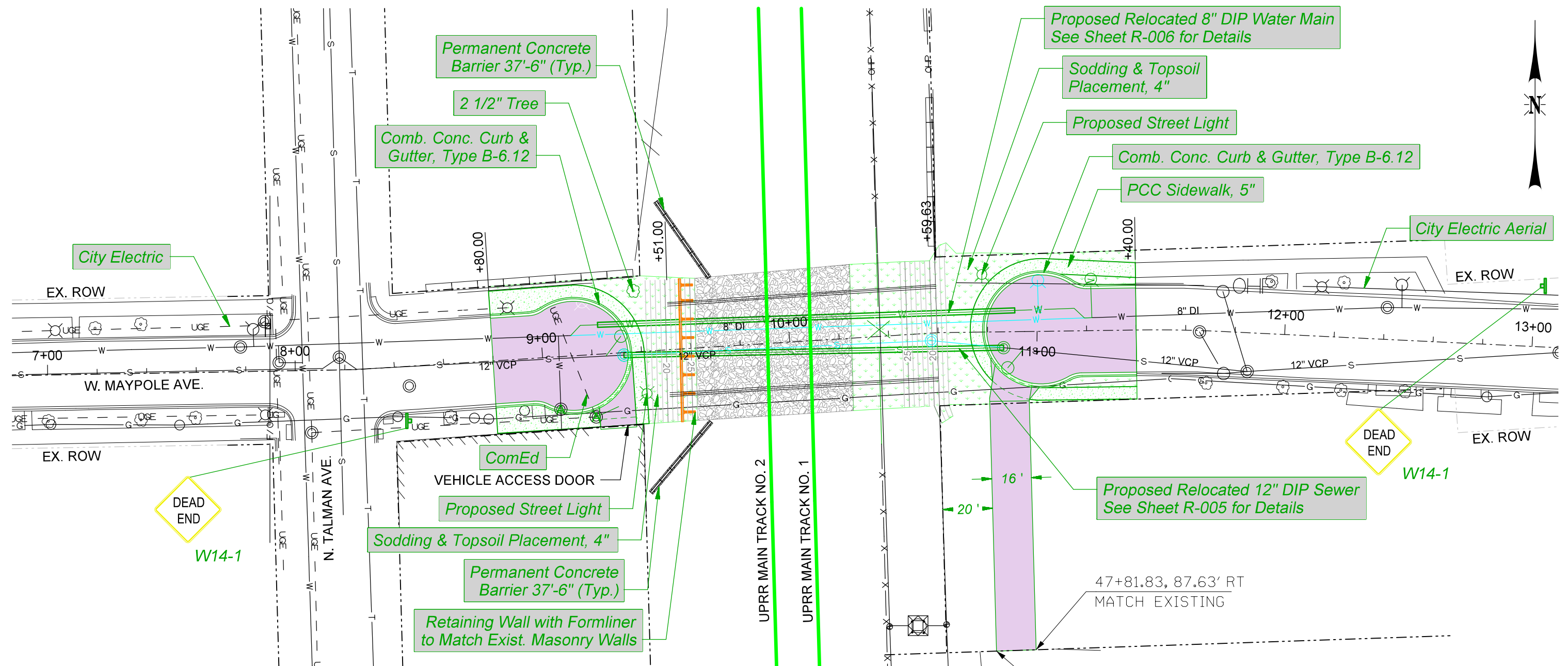
REVISION	BY	DATE	DESCRIPTION



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CHECKED BY: TK	PID: 64527
DATE: 05/28/21	BUDGET REF:
SCALE: 1" = 40'	SHEET NUMBER: R-001

UNION PACIFIC RAILROAD	Director Structures Design
LOCATION & DESCRIPTION: MP 0.87 ROCKWELL SUBDIVISION MAYPOLE AVENUE BRIDGE REMOVAL	
SHEET TITLE: ROADWAY EX. CONDITIONS & REMOVAL PLAN	

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 Date: 5/25/2021



LEGEND

- Pavement Reconstruction
- Depressed Curb & Gutter
- Sodding & Topsoil Placement
- Railroad Subballast
- Sidewalk
- A Lid To Be Adjusted

PAY ITEM	UNIT	TOTAL
SUBBASE GRANULAR MATERIAL, TYPE B6"	SQ YD	684
PORTLAND CEMENT CONCRETE BASE COURSE 7"	SQ YD	684
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	6.9
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	5.4
BITUMINOUS MATERIALS (PRIME COAT)	POUND	3078
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1687
MANHOLES TO BE ADJUSTED	EACH	2
SODDING	SY	575
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	290
SIGN ASSEMBLY	EACH	2
SIGN	SF	48



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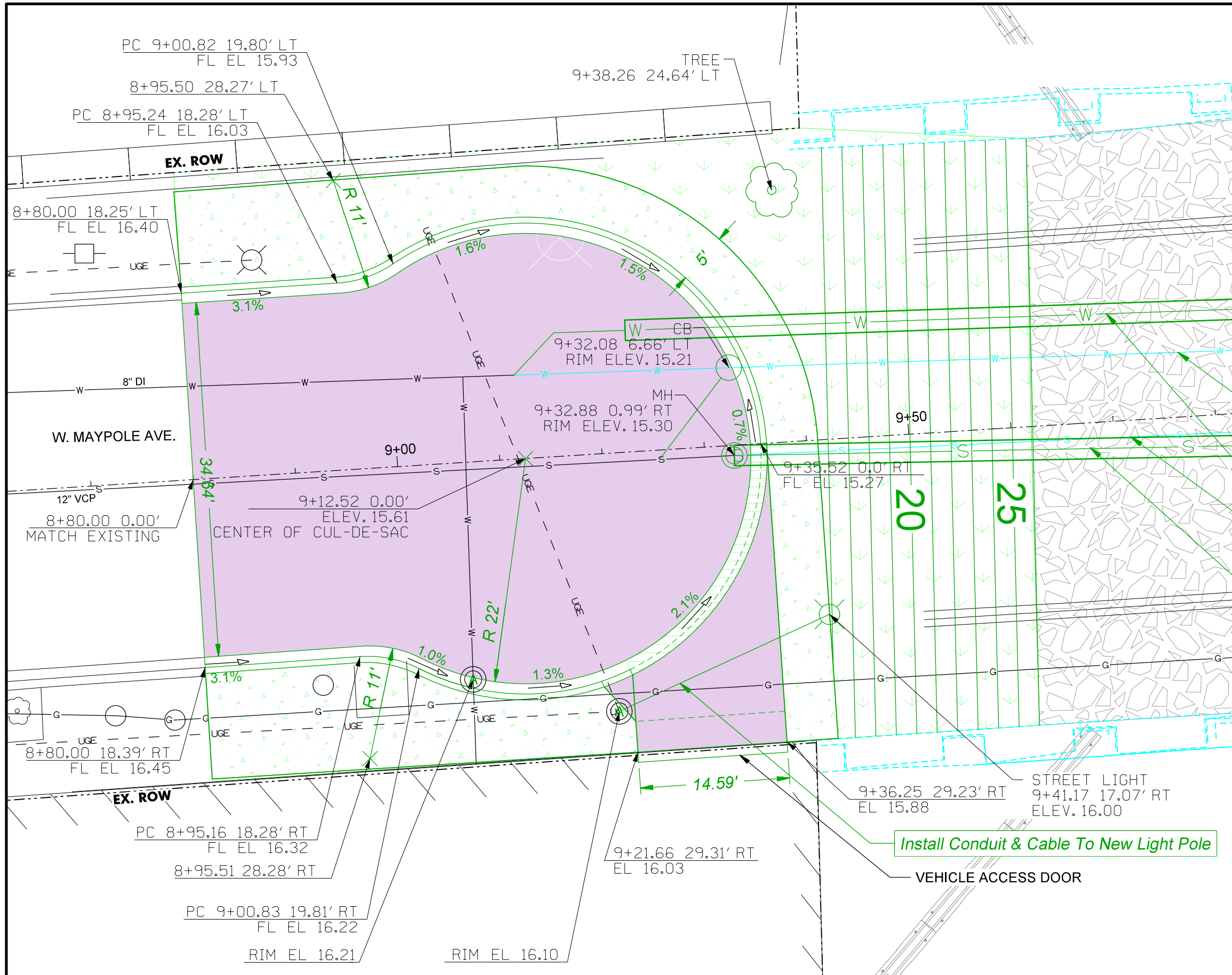
REVISION	BY	DATE	DESCRIPTION



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CHECKED BY: TK	PID: 64527
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SCALE: 1" = 40'	SHEET NUMBER: R-002

UNION PACIFIC RAILROAD	Director Structures Design
	LOCATION & DESCRIPTION: MP 0.87 ROCKWELL SUBDIVISION MAYPOLE AVENUE BRIDGE REMOVAL
	SHEET TITLE: ROADWAY PROPOSED PLAN

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 5/25/2021



LEGEND

- Pavement Reconstruction
- Depressed Curb & Gutter
- Sodding & Topsoil Placement
- Railroad Subballast
- Sidewalk
- A Lid To Be Adjusted

- Ex. Water Main To Be Abandoned
- Proposed Relocated 8" DIP Water Main See Sheet R-006 for Details
- Ex. Sewer To Be Abandoned
- Proposed Relocated 12" DIP Sewer See Sheet R-005 for Details

SCALE IN FEET

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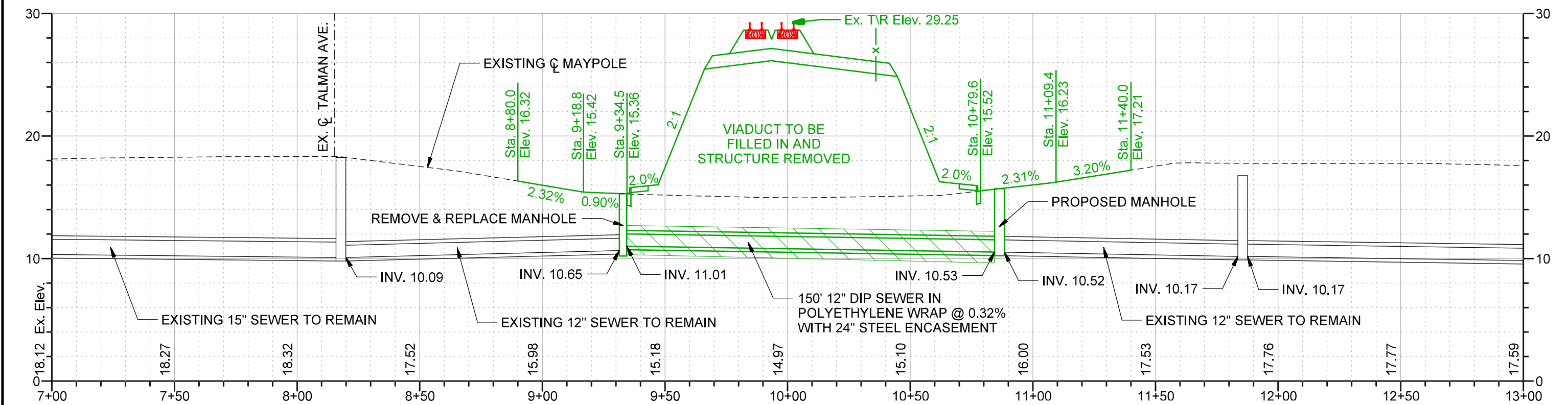
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DATE: 05/28/21	BUDGET REF:
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UNION PACIFIC RAILROAD
 Director Structures Design

LOCATION & DESCRIPTION:
 MP 0.87 ROCKWELL SUBDIVISION
 MAYPOLE AVENUE BRIDGE REMOVAL

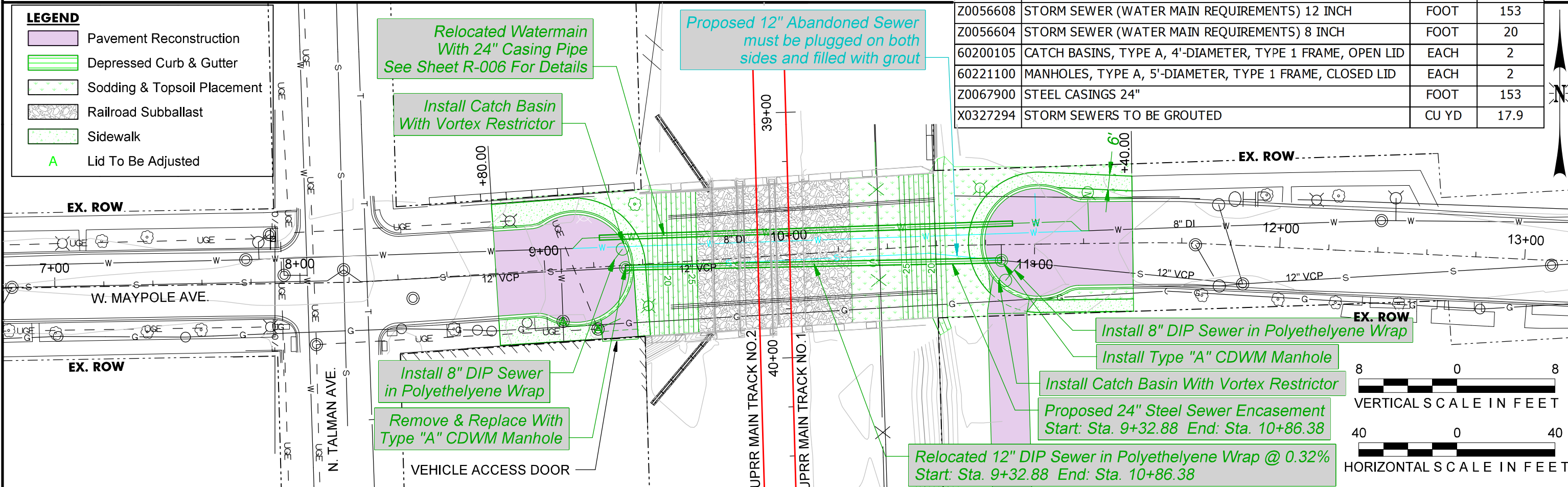
SHEET TITLE:
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 5/25/2021

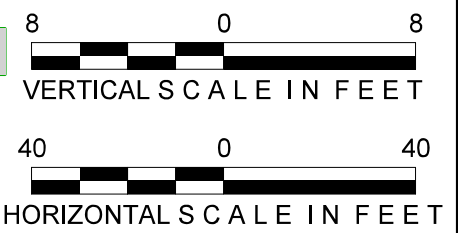


LEGEND

- Pavement Reconstruction
- Depressed Curb & Gutter
- Sodding & Topsoil Placement
- Railroad Subballast
- Sidewalk
- A Lid To Be Adjusted



	PAY ITEM	UNIT	TOTAL
Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	153
Z0056604	STORM SEWER (WATER MAIN REQUIREMENTS) 8 INCH	FOOT	20
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	2
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2
Z0067900	STEEL CASINGS 24"	FOOT	153
X0327294	STORM SEWERS TO BE GROUTED	CU YD	17.9



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SCALE: 1" = 40'	SHEET NUMBER: R-005

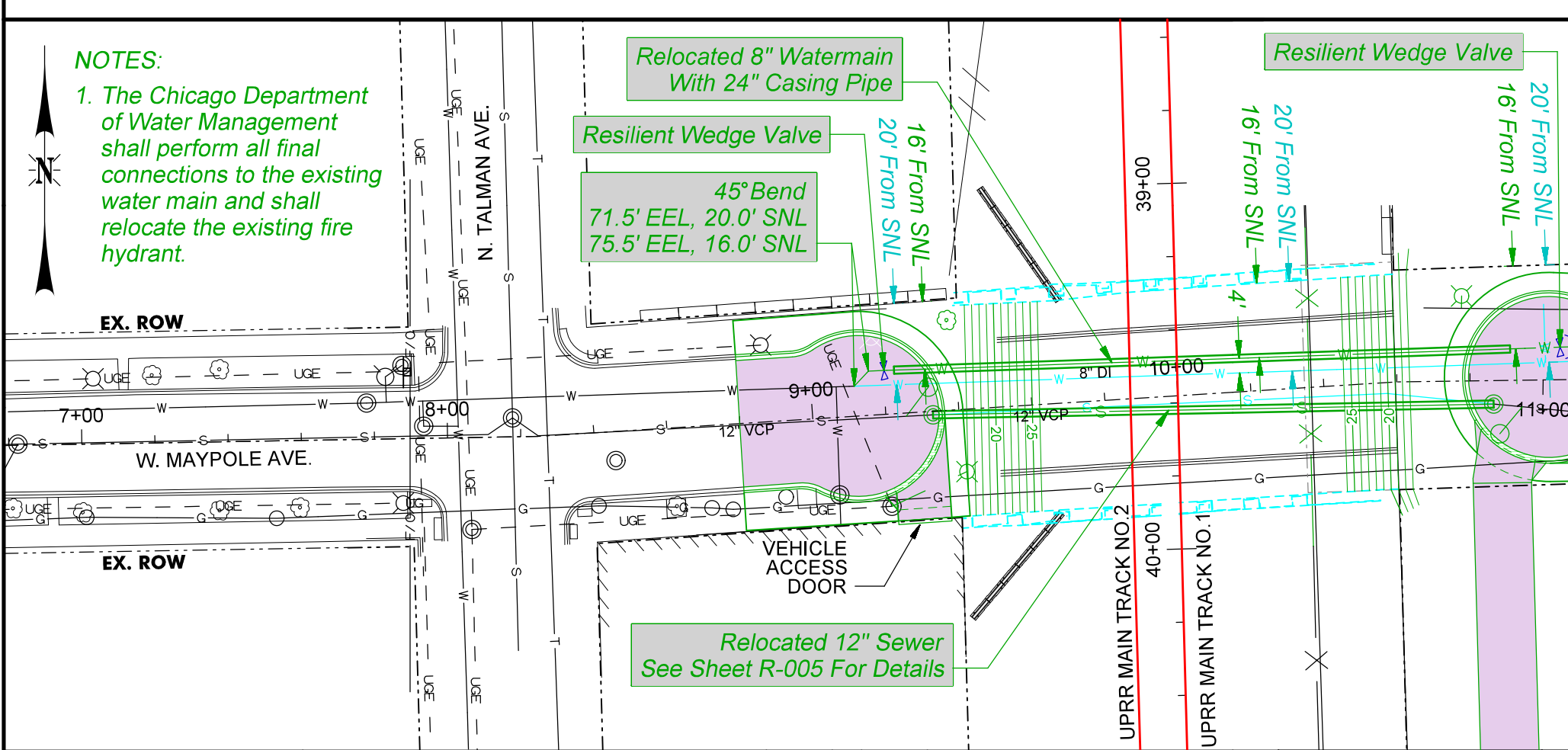
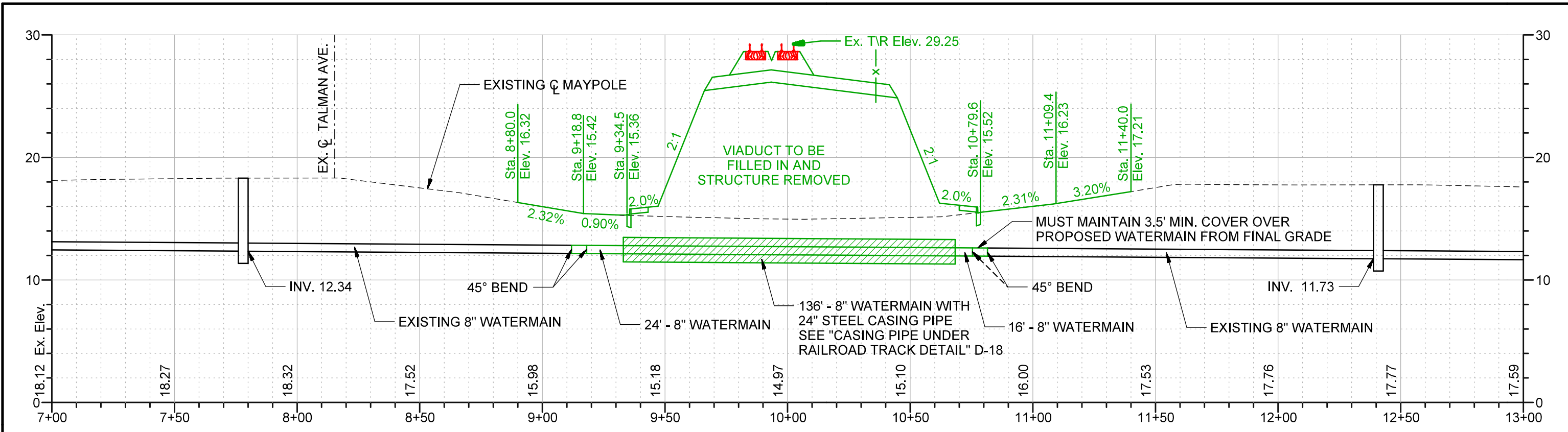
UNION PACIFIC RAILROAD

Director Structures Design

LOCATION & DESCRIPTION:
 MP 0.87 ROCKWELL SUBDIVISION
 MAYPOLE AVENUE BRIDGE REMOVAL

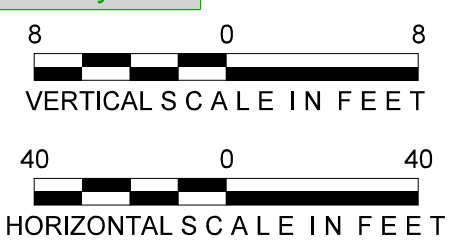
SHEET TITLE:
SEWER PLAN & PROFILE

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	PAY ITEM	UNIT	TOTAL
56103100	DUCTILE IRON WATER MAIN 8"	FOOT	230
56109420	DUCTILE IRON WATER MAIN FITTINGS 8" 45.00 DEGREE BEND	EACH	4
Z0067900	STEEL CASINGS 24"	FOOT	169
56100020	DUCTILE IRON WATER MAIN TEE, 8" X 8"	EACH	1
56400510	FIRE HYDRANTS TO BE REMOVED AND REPLACED	EACH	1
56105000	WATER VALVES 8"	EACH	2
X0325790	WATER HYDRANT	EACH	1

NOTES:
 1. The Chicago Department of Water Management shall perform all final connections to the existing water main and shall relocate the existing fire hydrant.



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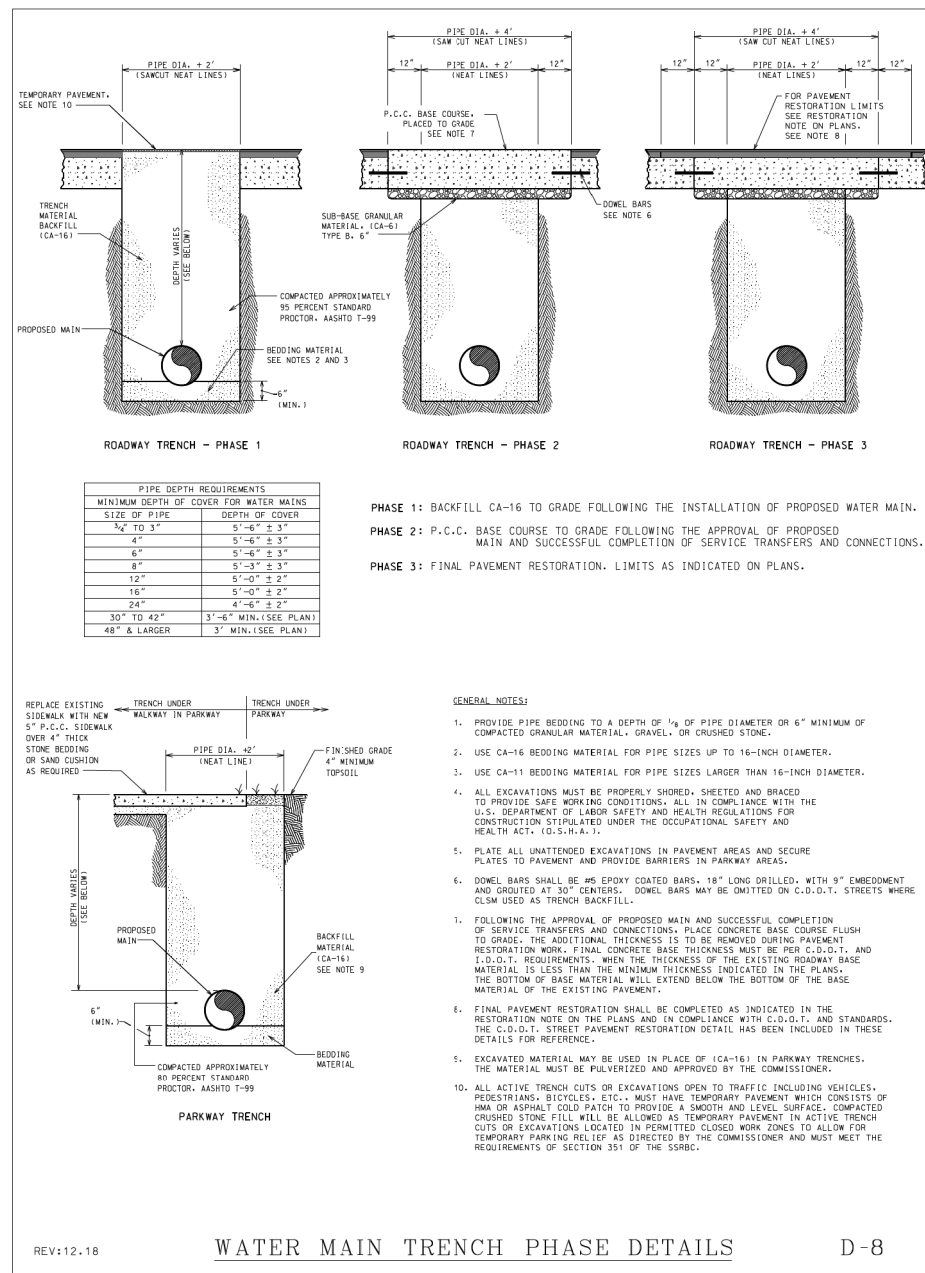
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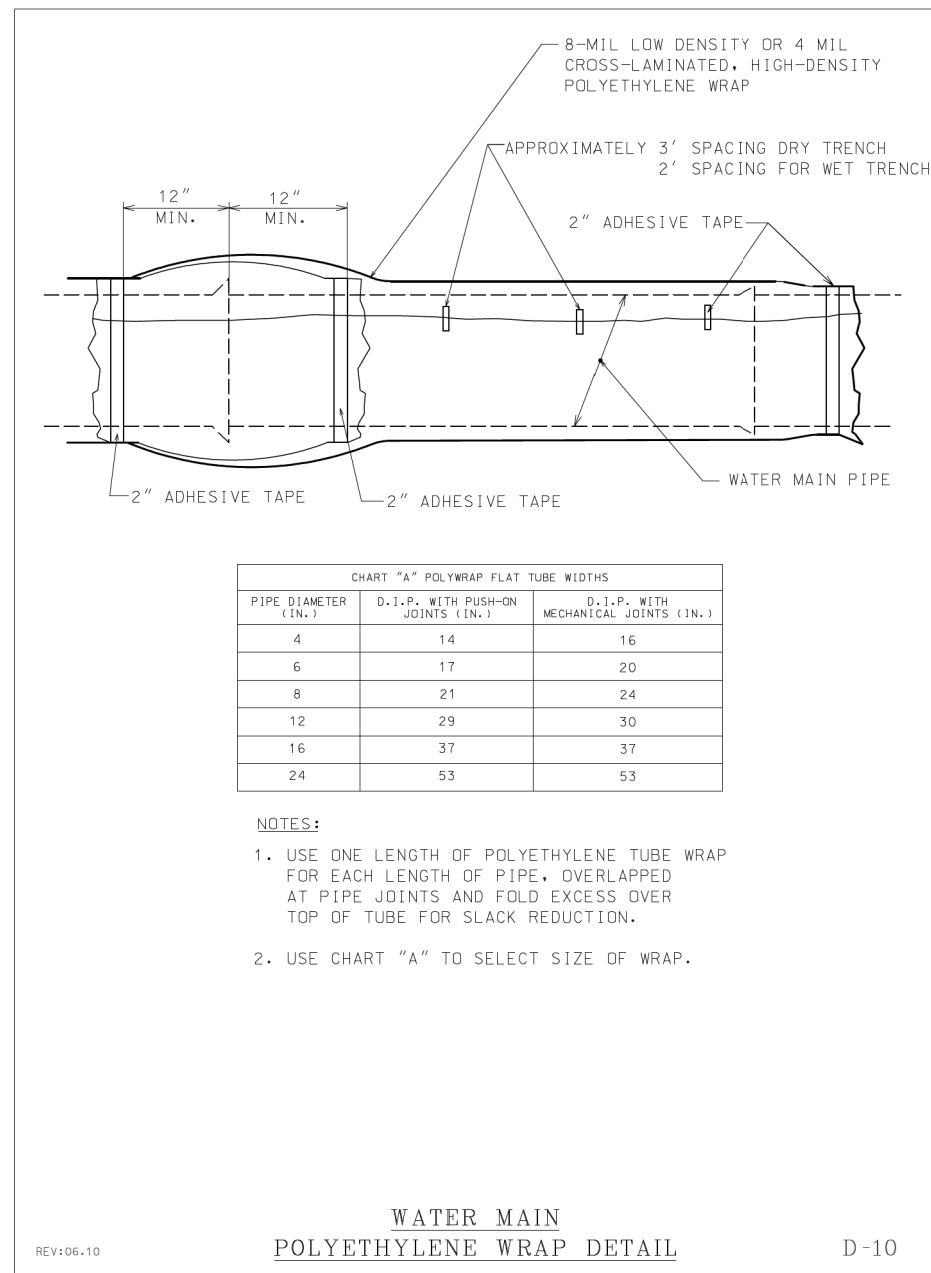
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DATE: 05/28/21	BUDGET REF:
SCALE: 1" = 40'	SHEET NUMBER: R-006

UNION PACIFIC RAILROAD	Director Structures Design
LOCATION & DESCRIPTION:	MP 0.87 ROCKWELL SUBDIVISION MAYPOLE AVENUE BRIDGE REMOVAL
SHEET TITLE:	WATERMAIN PLAN & PROFILE

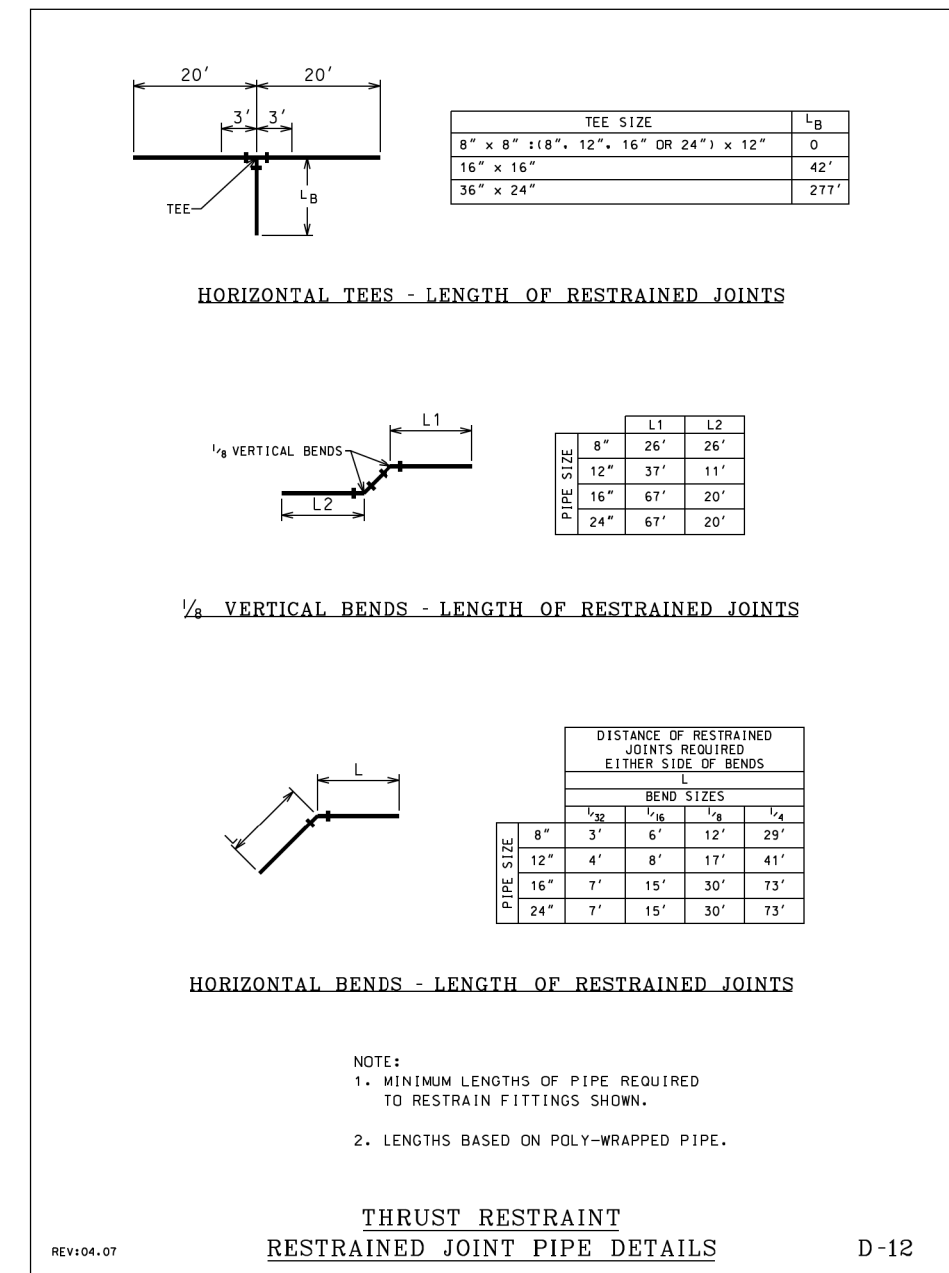
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 5/23/2011



REV:12.18 WATER MAIN TRENCH PHASE DETAILS D-8



REV:06.10 WATER MAIN POLYETHYLENE WRAP DETAIL D-10



REV:04.07 THRUST RESTRAINT RESTRAINED JOINT PIPE DETAILS D-12

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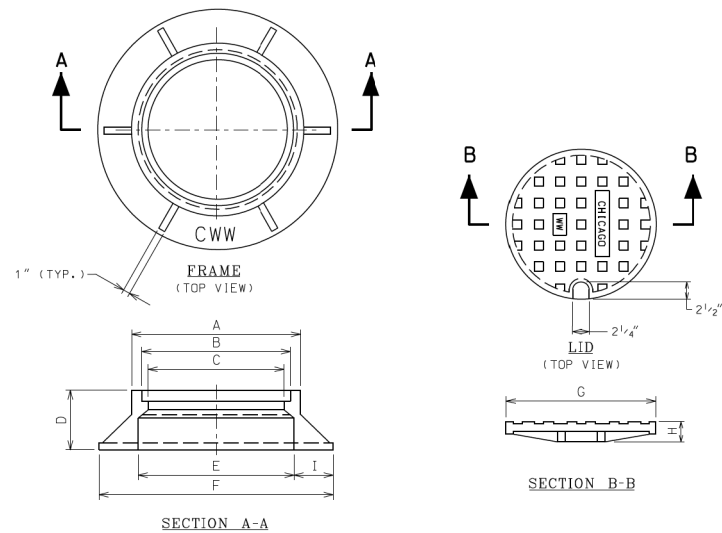
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SCALE: N.T.S	SHEET NUMBER R-007

UNION PACIFIC RAILROAD
 Director Structures Design
 LOCATION & DESCRIPTION:
 MP 0.87 ROCKWELL SUBDIVISION
 MAYPOLE AVENUE BRIDGE REMOVAL
 SHEET TITLE:
 WATERMAIN DETAILS



NOTES:
ALL FRAMES AND LIDS SHALL BE OF HEAVY DUTY TYPE DESIGN AND MEET AASHTO M105 AND M306 REQUIREMENTS FOR A 40,000 LB PROOF LOAD.

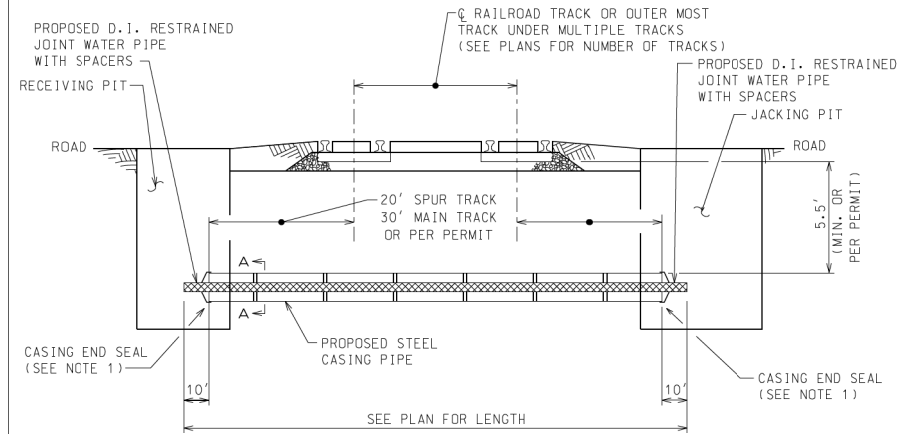
LETTERING FOR CHICAGO W.W. ON THE LID SHALL BE 2" SHARP FACE GOTHIC LETTERS, 3/16" WIDE AND RAISED 1/8" FROM 1/2" RECESS AS MEASURED FROM THE TOP SURFACE OF THE LID.

LETTERING FOR C.W.W. ON THE FRAME SHALL BE LOCATED ON THE TOP SURFACE OF THE HORIZONTAL FLANGE AND SHALL BE 1" SHARP FACE GOTHIC, 3/16" WIDE AND RAISED 1/8" AS MEASURED FROM THE FLANGE SURFACE. LOCATION OF LETTERING SHALL BE AS INDICATED ON DRAWING.

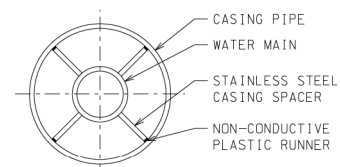
DIMENSION	FRAME AND LID DIMENSIONS	
	FRAME AND LID TYPES	
	STANDARD	36" SPECIAL F&L
A	24	-
B	22 7/8 - 23	36
C	21	34
D	9	8 1/2
E	24 1/2 - 24 3/16	36
F	34	45
G	22 3/4	36
H	3	1 1/2
I	4 5/8 - 4 3/4	4 1/2

FRAME & LID

D-15



PROFILE
N.T.S.



SECTION A-A

NOTES:

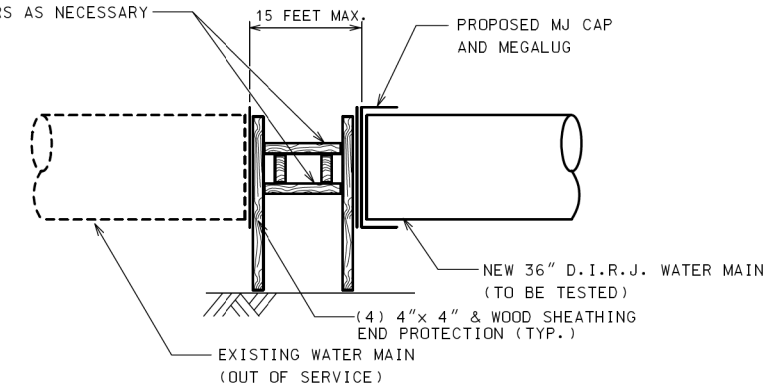
1. END SEAL - BRICK AND MORTAR OR SELF CURING RUBBER SEAL.
2. LENGTH OF CASING PIPES UNDER RAILROAD TRACKS SHALL BE EXTENDED TO RAILROAD R.O.W. LINES AND JACKING AND RECEIVING PITS ARE NOT TO BE LOCATED WITHIN TRACK R.O.W.

THIS DETAIL IS PROVIDED FOR REFERENCE PURPOSES ONLY

CASING PIPE UNDER RAILROAD TRACK DETAIL

D-18

8-4" x 4" WOOD BLOCKING BRACE WITH 4" x 4" WOOD FASTEN WITH BOLTS, NAILS AND HANGERS AS NECESSARY



THIS DETAIL IS PROVIDED FOR REFERENCE PURPOSES ONLY AND IS NOT A C.D.W.M. WATER MAIN STANDARD

BRACING AT CAP FOR PRESSURE TEST

FM-17

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Chicago, Illinois 60601
312-565-0450 Job No. 210070.11

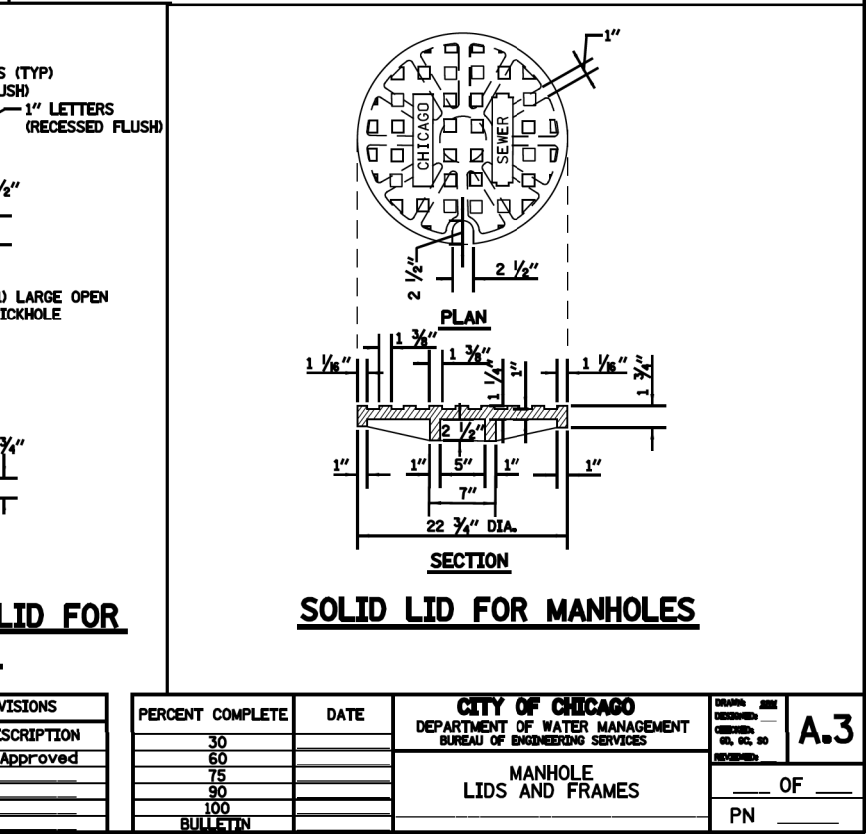
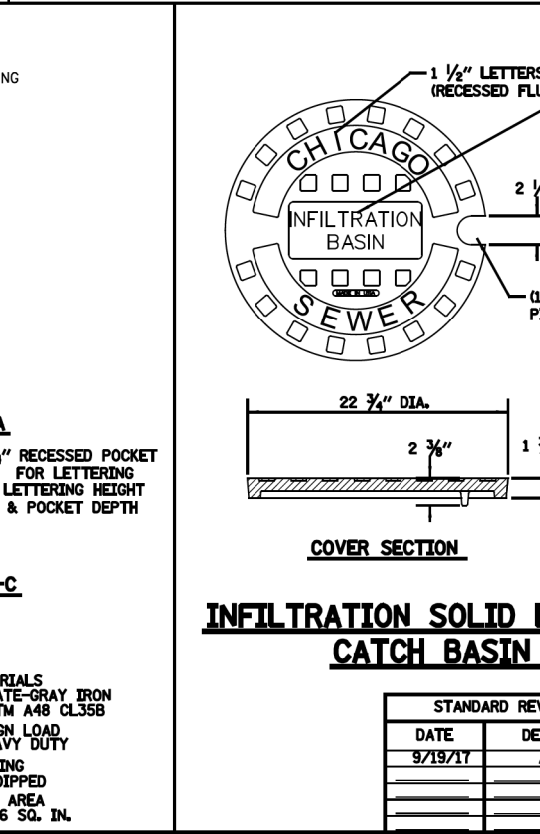
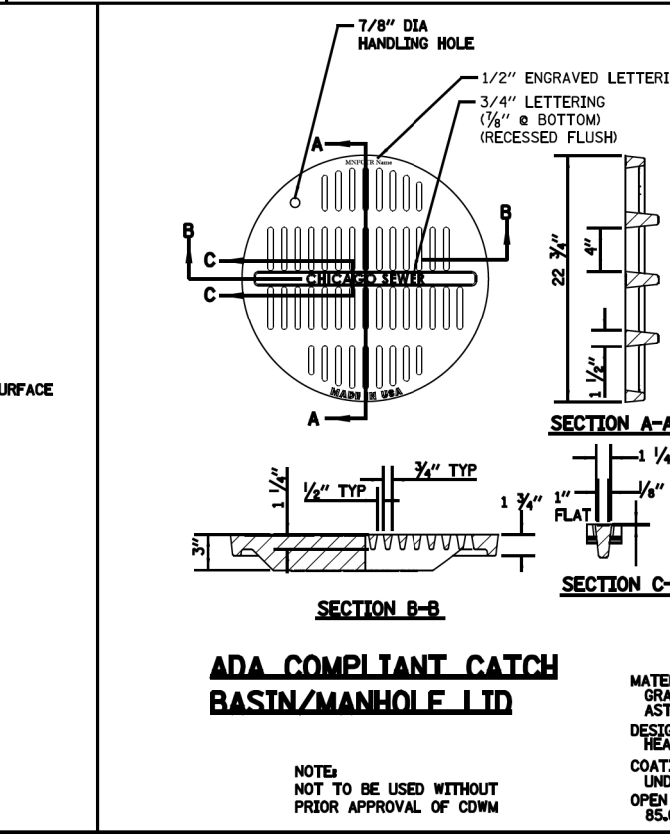
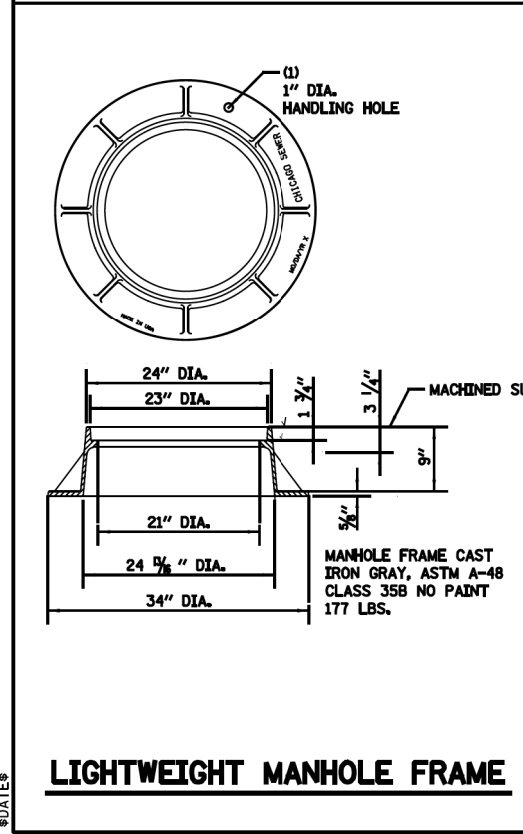
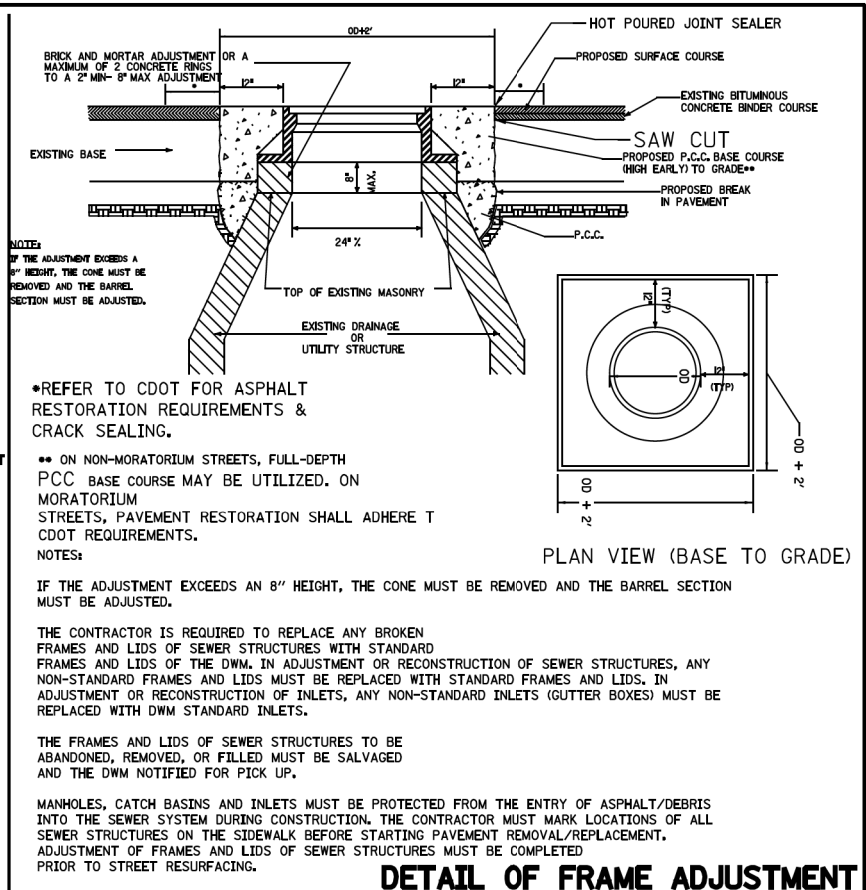
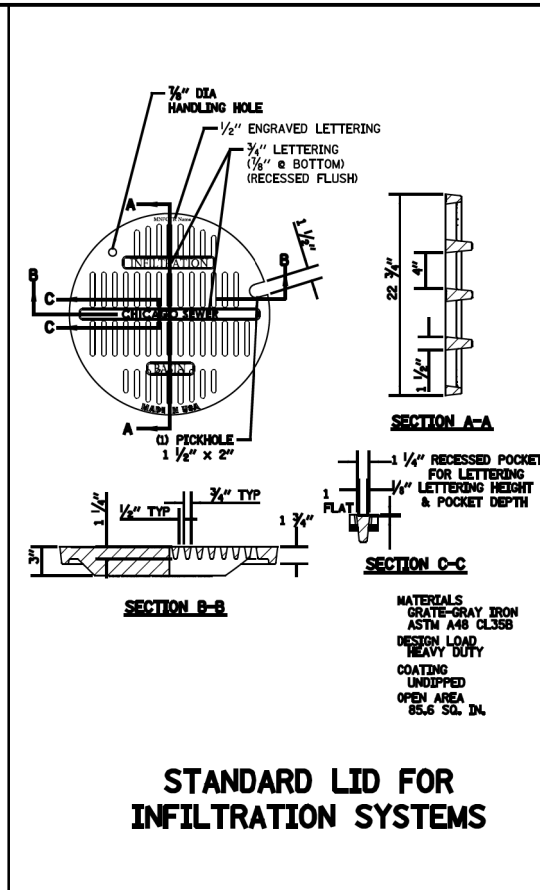
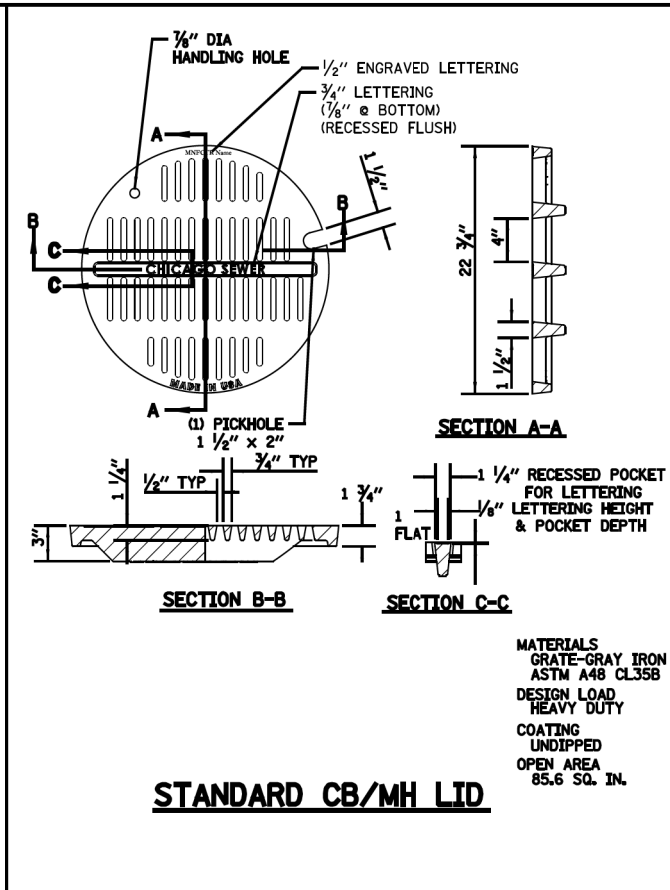
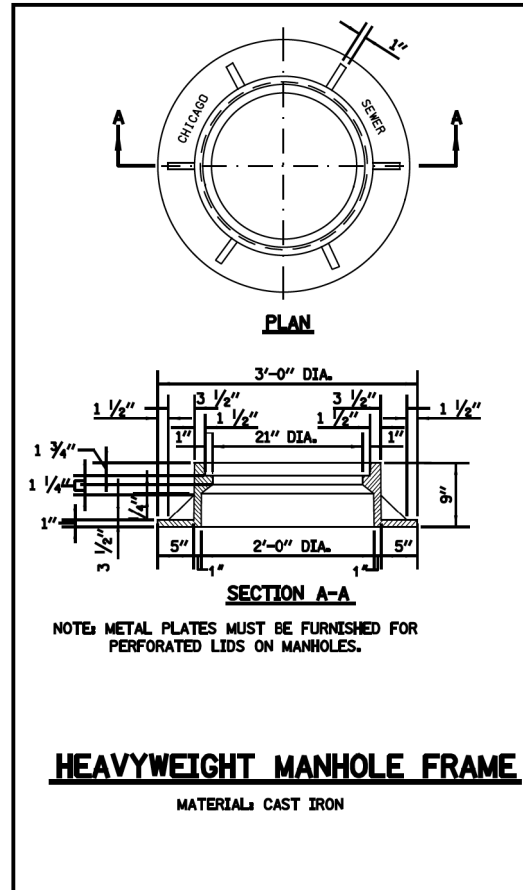


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SCALE: N.T.S.	SHEET NUMBER R-008

UNION PACIFIC RAILROAD	Director Structures Design
LOCATION & DESCRIPTION: MP 0.87 ROCKWELL SUBDIVISION MAYPOLE AVENUE BRIDGE REMOVAL	
SHEET TITLE: WATERMAIN DETAILS	

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 5/25/2021



STANDARD REVISIONS	
DATE	DESCRIPTION
9/19/17	Approved

PERCENT COMPLETE	DATE
30	
60	
75	
90	
100	

CITY OF CHICAGO	
DEPARTMENT OF WATER MANAGEMENT	
BUREAU OF ENGINEERING SERVICES	
MANHOLE LIDS AND FRAMES	

DATE	REVISED	BY	NO.	OF
			01, 02, 03	
A.3				OF
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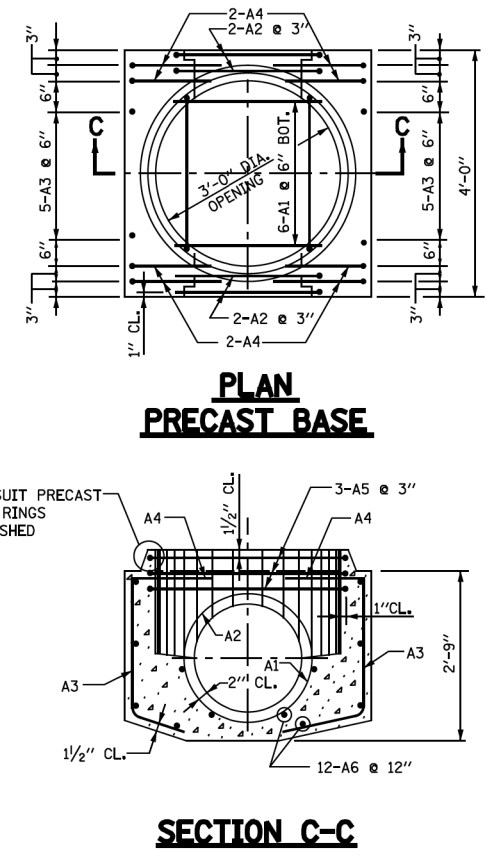
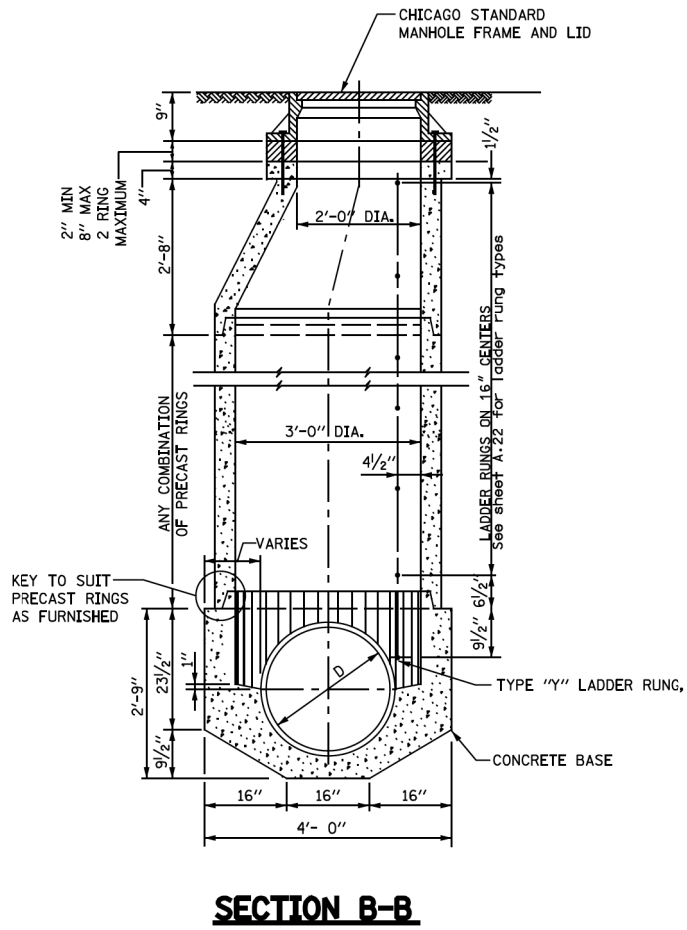
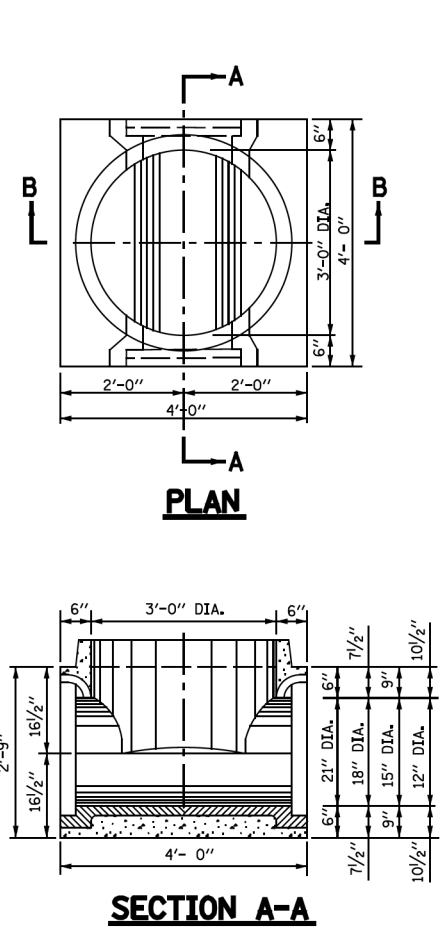
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 Alfred Benesch & Company
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 Chicago, Illinois 60601
 312-565-0450 Job No. 210070.11



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TK	64527
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05/28/21	
SCALE:	SHEET NUMBER
N.T.S	R-009

UNION PACIFIC RAILROAD
 Director Structures Design
 LOCATION & DESCRIPTION:
 MP 0.87 ROCKWELL SUBDIVISION
 MAYPOLE AVENUE BRIDGE REMOVAL
 SHEET TITLE:
 WATERMAIN DETAILS

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 5/23/2021



NOTE:
 6" MINIMUM GRANULAR EMBEDMENT
 UNDER ALL PRECAST MANHOLE BASES

STRUCTURE		REINFORCEMENT BAR						BENDING DIMENSIONS											
		MARK	SIZE NO.	TYPE	LENGTH	NO. REQD.	WEIGHT - LBS EACH TOTAL	A	B	C	D	E	F	G	H	J	K	O	R
BASES FOR TYPE "A" MANHOLES (PRECAST)	21" DIA.	21A1	6	9	3'-1"	6	4.63 28		3'-1"						11 1/4"		2'-1"	12 3/4"	
		21A2	6	T3	8'-8"	4	13.02 52										2'-0"	2'-1 1/2"	
		21A3	5	12	3'-3"	10	3.39 34			22"	17"				14 1/2"		8 3/4"		
		21A4	5	12	4'-6"	8	4.69 38		15"	22"	17"				14 1/2"		8 3/4"		
		21A5	5	T3	11'-11"	3	12.43 37								14 1/2"		8 3/4"		
		21A6	4	STR	3'-8"	12	2.45 30								20"		3'-3 1/4"		
			TOTAL				219												
		18" DIA.	18A1	6	9	2'-8 1/2"	6	4.07 24		2'-8 1/2"					9 3/4"		22"	11 1/4"	
	18A2		6	T3	7'-10 1/2"	4	11.83 47										2'-0"	22 1/2"	
	18A3		5	12	3'-3"	10	3.39 34			22"	17"				14 1/2"		8 3/4"		
	18A4		5	12	4'-6"	8	4.69 38		15"	22"	17"				14 1/2"		8 3/4"		
	18A5		5	T3	11'-11"	3	12.43 37								14 1/2"		8 3/4"		
18A6	4		STR	3'-8"	12	2.45 30								20"		3'-3 1/4"			
		TOTAL				202													
	15" DIA.	15A1	6	9	2'-3 1/2"	6	3.44 21		23 1/2"					8 1/4"		19"	9 3/4"		
15A2		6	T3	7'-1"	4	10.64 42										2'-0"	19 1/2"		
15A3		5	12	3'-3"	10	3.39 34			22"	17"						8 3/4"			
15A4		5	12	4'-6"	8	4.69 38		15"	22"	17"				14 1/2"		8 3/4"			
15A5		5	T3	11'-11"	3	12.43 37								14 1/2"		8 3/4"			
15A6		4	STR	3'-8"	12	2.45 30								20"		3'-3 1/4"			
		TOTAL				202													
	12" DIA.	12A1	6	9	1'-11"	6	2.88 17		23"					6 3/4"		16"	8 1/4"		
12A2		6	T3	6'-1"	4	9.14 37										2'-0"	16 1/2"		
12A3		5	12	3'-3"	10	3.39 34			22"	17"				14 1/2"		8 3/4"			
12A4		5	12	4'-6"	8	4.69 38			22"	17"				14 1/2"		8 3/4"			
12A5		5	T3	11'-11"	3	12.43 37								20"		3'-3 1/4"			
12A6		4	STR	3'-8"	12	2.45 30								20"		3'-3 1/4"			
		TOTAL				193													

\$FILE\$
 \$DATE\$

STANDARD REVISIONS		PERCENT COMPLETE	DATE	CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT BUREAU OF ENGINEERING SERVICES	SHEET NO. A.5 OF _____ PN _____
DATE	DESCRIPTION				
9/5/17	REVISION	30		TYPE "A" PRECAST MANHOLE FOR SEWERS 21" DIA. AND SMALLER	
		60			
		75			
		90			
		100			
		BULLETIN			

WARNING !
 FIBER OPTIC CABLE
 ON RAILROAD R-O-W
 CALL BEFORE YOU DIG
 1-800-336-9193

ISSUED FOR
 CONSTRUCTION

REVISION	BY	DATE	DESCRIPTION

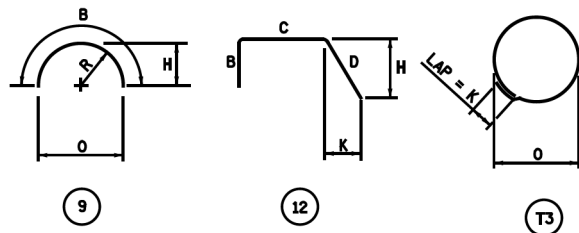
benesch
 Alfred Benesch & Company
 35 W. Wacker Drive Suite 3300
 Chicago, Illinois 60601
 312-565-0450 Job No. 210070.11



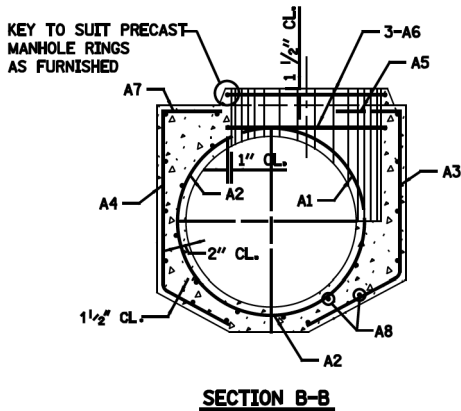
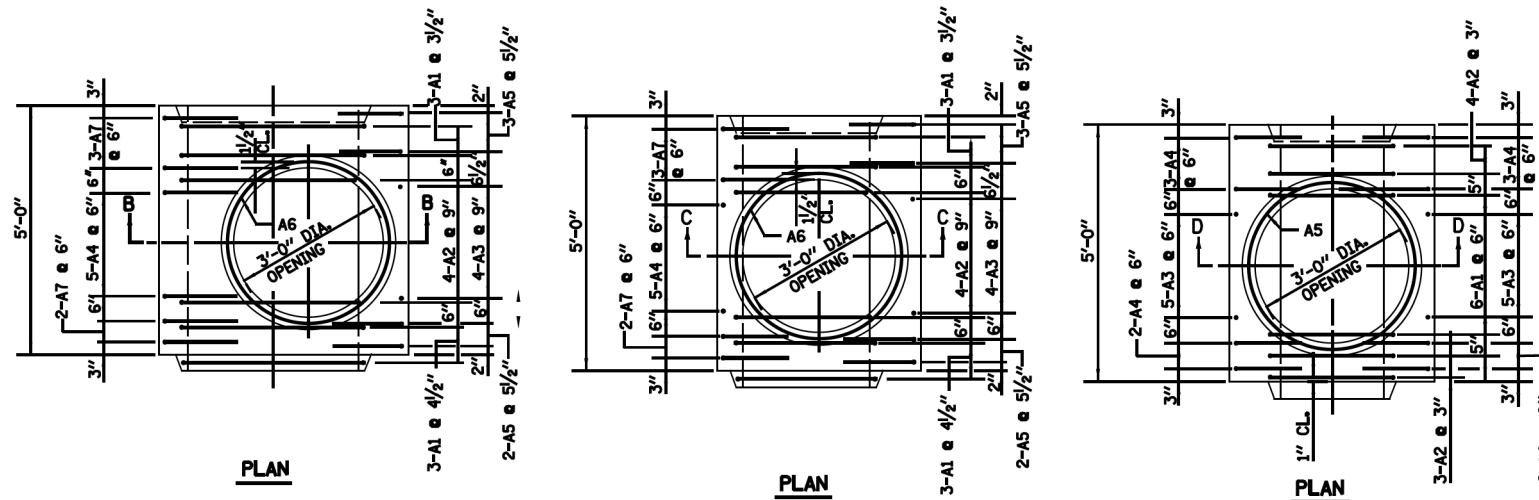
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 WORK ORDER: 496
 CHECKED BY: TK
 PID: 64527
 DATE: 05/28/21
 BUDGET REF:
 SCALE: N.T.S.
 SHEET NUMBER: R-010

UNION PACIFIC RAILROAD
 Director Structures Design
 LOCATION & DESCRIPTION:
 MP 0.87 ROCKWELL SUBDIVISION
 MAYPOLE AVENUE BRIDGE REMOVAL
 SHEET TITLE:
 SEWER CONSTRUCTION DETAILS

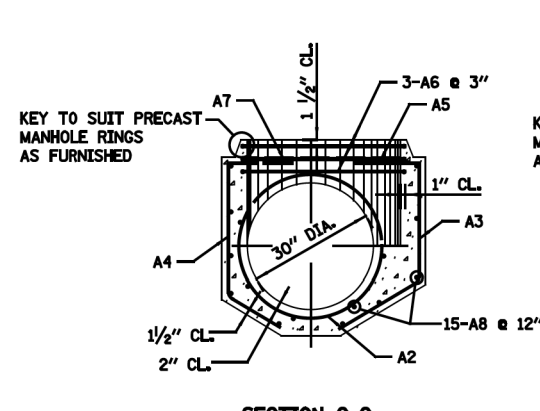
REINFORCEMENT BAR										BENDING DIMENSIONS									
MARK NO.	SIZE	TYPE	LENGTH	NO. EACH	WEIGHT	LINE	A	B	C	D	E	F	G	H	J	K	O	R	
BASIS FOR TYPE "A" MANHOLES (Precedent Structure)																			
36" DIA.																			
36A1	8	T3	17'-0"	8	18.90	113													
36A2	8	3	2'-0"	4	4.88	28	6'-0"												
36A3	8	12	2'-0"	4	4.88	19		2'-0"	21"										
36A4	8	12	2'-0"	8	9.76	28		7"	2'-0"	17"									
36A5	8	12	2'-0"	8	9.76	28		18"	2'-0"	21"									
36A6	8	12	2'-0"	8	9.76	28		18"	2'-0"	21"									
36A7	8	12	11'-11"	8	18.48	37													
36A8	8	12	11'-11"	8	18.48	37													
36A9	4	18T1	4'-0"	18	3.12	47													
TOTAL						288													
30" DIA.																			
30A1	8	T3	11'-1"	8	16.68	103													
30A2	8	3	2'-0"	4	4.88	19	4'-4"												
30A3	8	12	2'-0"	4	4.17	17		2'-0"	21"										
30A4	8	12	2'-0"	8	4.17	20		18"	2'-0"	21"									
30A5	8	12	2'-0"	8	4.17	20		18"	2'-0"	21"									
30A6	8	12	11'-11"	8	18.48	37													
30A7	8	12	11'-11"	8	18.48	37													
30A8	8	12	11'-11"	8	18.48	37													
30A9	4	18T1	4'-0"	18	3.12	47													
TOTAL						288													
24" DIA.																			
24A1	8	T3	8'-0"	8	8.13	31													
24A2	8	T3	2'-0"	7	14.08	98		3'-0"											
24A3	8	12	2'-0"	10	3.68	37		2'-0"	17"										
24A4	8	12	2'-0"	10	3.68	37		18"	2'-0"	17"									
24A5	8	12	11'-11"	8	18.48	89													
24A6	8	12	11'-11"	8	18.48	89													
24A7	4	18T1	4'-0"	12	3.12	37													
TOTAL						288													



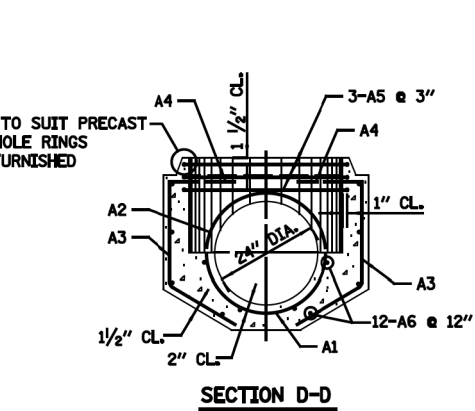
NOTES:
 ALL DIMENSIONS ARE OUT TO OUT OF BAR.
 BENDING RADII "R" TO OUTSIDE OF BAR.
 NUMBERS IN CIRCLES DENOTE BAR TYPE.



SECTION B-B
**MANHOLE BASE FOR SEWERS
 36" DIA.**



SECTION C-C
**MANHOLE BASE
 FOR 30" DIA. SEWERS**



SECTION D-D
**MANHOLE BASE
 FOR 24" DIA. SEWERS**

PLACING OF CONCRETE- CONCRETE MUST BE PLACED IN ACCORDANCE WITH THE METHOD OUTLINED IN THE CITY OF CHICAGO STANDARD SPECIFICATIONS.
 CONSTRUCTION JOINTS - JOINTS NOT INDICATED ON THE DRAWINGS MUST BE SO MADE AND LOCATED AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE AND MUST BE APPROVED BY THE COMMISSIONER. JOINTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE METHOD OUTLINED IN THE SPECIFICATIONS.

CONCRETE PROTECTION FOR REINFORCEMENT- ALL REINFORCING STEEL MUST HAVE CLEAR CONCRETE COVERING AS FOLLOWS (UNLESS OTHERWISE NOTED) :
 3" AT EXTERIOR SURFACES WHERE CONCRETE IS DEPOSITED AGAINST THE GROUND;
 2.5" AT SURFACES WHERE CONCRETE IS FORMED BUT SUBSEQUENTLY WILL BE IN CONTACT WITH SEWAGE; 2" AT ALL OTHER SURFACES.

REINFORCING STEEL- ALL REINFORCING BARS MUST BE ACCURATELY PLACED AND SECURELY SUPPORTED BY BAR SUPPORTS, SPACERS OR HIGH CHAIRS.
 ALL LAPS IN REINFORCING STEEL MUST BE BASED UPON THE 1989, ACI BUILDING CODE.

UNLESS OTHERWISE NOTED, HOOKS AND BENDS ON BARS MUST CONFORM TO RECOMMENDED DETAILS AS GIVEN IN THE "MANUAL OF STANDARD PRACTICE", C.R.S.I., 1990.

THE FOLLOWING ABBREVIATIONS ARE USED TO INDICATE THE LOCATION OF REINFORCING BARS:

T.	DENOTES	TOP	N.F.	DENOTES	NEAR FACE
BOT.	DENOTES	BOTTOM	F.F.	DENOTES	FAR FACE
I.F.	DENOTES	INSIDE FACE	E.F.	DENOTES	EACH FACE
O.F.	DENOTES	OUTSIDE FACE	E.W.	DENOTES	EACH WAY

PLACING BAR SUPPORTS- ALL REINFORCING BARS MUST BE SUPPORTED, ANCHORED AND TIED AND MUST CONFORM TO THE "RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS", 1986, PREPARED BY THE CONCRETE REINFORCING STEEL INSTITUTE.

STANDARD REVISIONS		PERCENT COMPLETE	DATE	CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT BUREAU OF ENGINEERING SERVICES	DRAWN BY: KP CHECKED BY: TK DATE: 05/28/21 SCALE: N.T.S.	WORK ORDER: 496 PID: 64527 BUDGET REF: SHEET NUMBER: R-011	REINFORCEMENT FOR TYPE "A" PRECAST BASES AND RINGS 24" to 36"	A.7 OF PN
DATE	DESCRIPTION							
2/23/17	REVISION	30						
		60						
		75						
		90						
		100						
		BULLETIN						

WARNING !
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 1-800-336-9193

**ISSUED FOR
 CONSTRUCTION**

REVISION	BY	DATE	DESCRIPTION

benesch
 Alfred Benesch & Company
 35 W. Wacker Drive Suite 3300
 Chicago, Illinois 60601
 312-565-0450 Job No. 210070.11

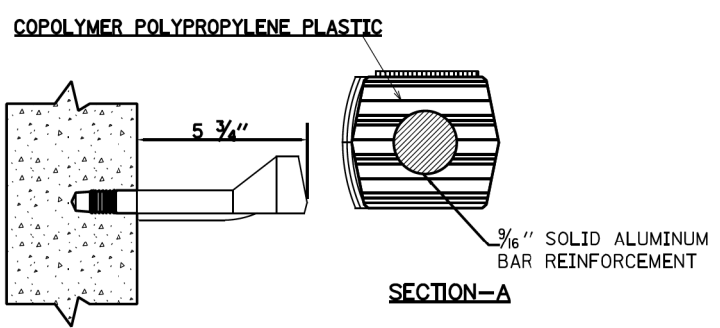
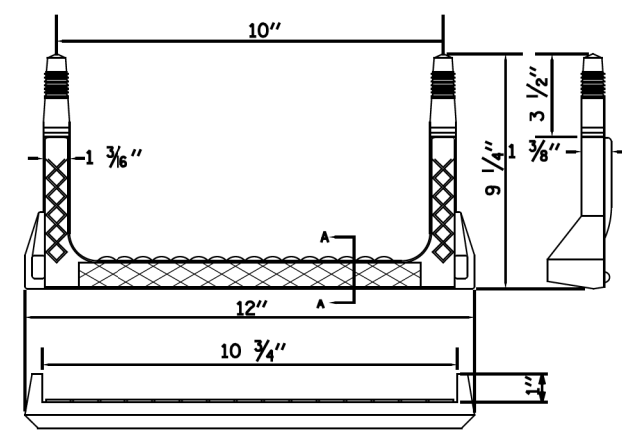


DRAWN BY: KP
 CHECKED BY: TK
 DATE: 05/28/21
 SCALE: N.T.S.

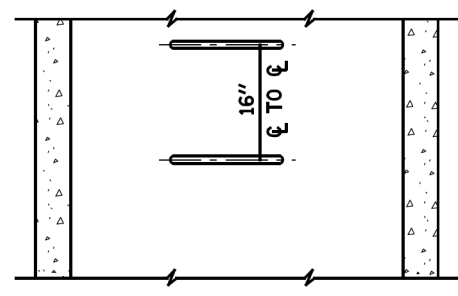
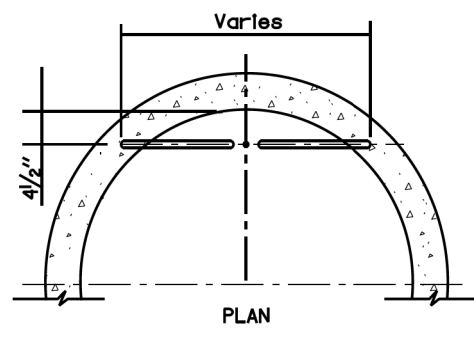
UNION PACIFIC RAILROAD
 Director Structures Design
 LOCATION & DESCRIPTION:
 MP 0.87 ROCKWELL SUBDIVISION
 MAYPOLE AVENUE BRIDGE REMOVAL
 SHEET TITLE:
 SEWER CONSTRUCTION DETAILS

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 5/23/2021

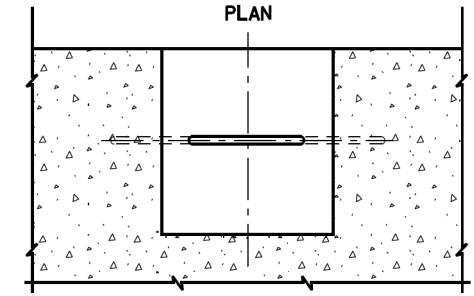
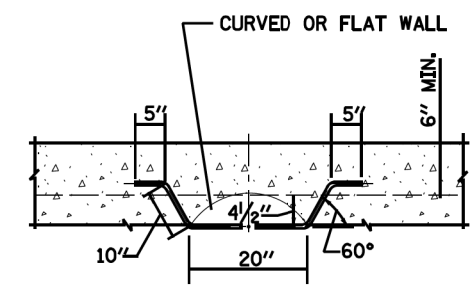
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 5/25/2021



RECTANGULAR STEP LADDER RUNG
 FOR USE ONLY IN 48" DIAMETER
 AND LARGER MANHOLES.



ELEVATION
 TYPE X
 RISER



ELEVATION
 TYPE Y
 BASE

NOTES:

1. VERTICAL SPACING = 16" O.C., ON VERTICAL WALL ONLY.
2. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478 IN ADDITION TO A HORIZONTAL PULL-OUT LOAD OF 1000 LBS. WHEN INSTALLED.
3. ALL STEPS SHALL BE VERTICALLY ALIGNED IN A STRAIGHT LINE.
4. MINIMUM CONCRETE STRENGTH MUST BE 3000 PSI
5. HOLES- PREFORMED/DRILLED
 - A. HOLES MUST BE PARALLEL
 - B. HOLES MUST BE 10" CENTERED, 1" DIAMETER
 - C. MINIMUM DEPTH- 3 1/2" TO 3 3/4"

#FILE#
 #DATE#

STANDARD REVISIONS		PERCENT COMPLETE	DATE	CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT BUREAU OF ENGINEERING SERVICES	SHEET NO. A.22
DATE	DESCRIPTION				
5/8/17	APPROVED PLAN	30		LADDER RUNGS	OF _____ PN _____
		60			
		75			
		90			
		100			
		BULLETIN			

WARNING !
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ISSUED FOR
 CONSTRUCTION

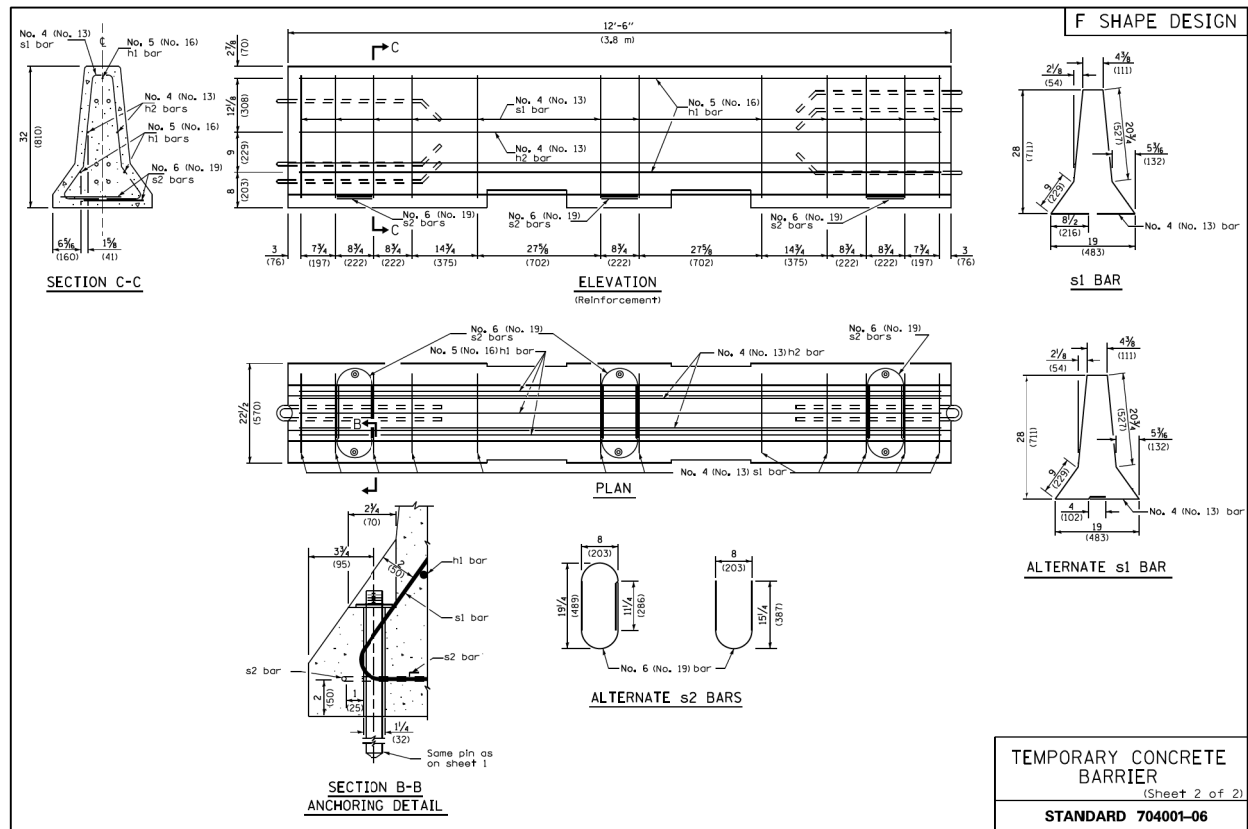
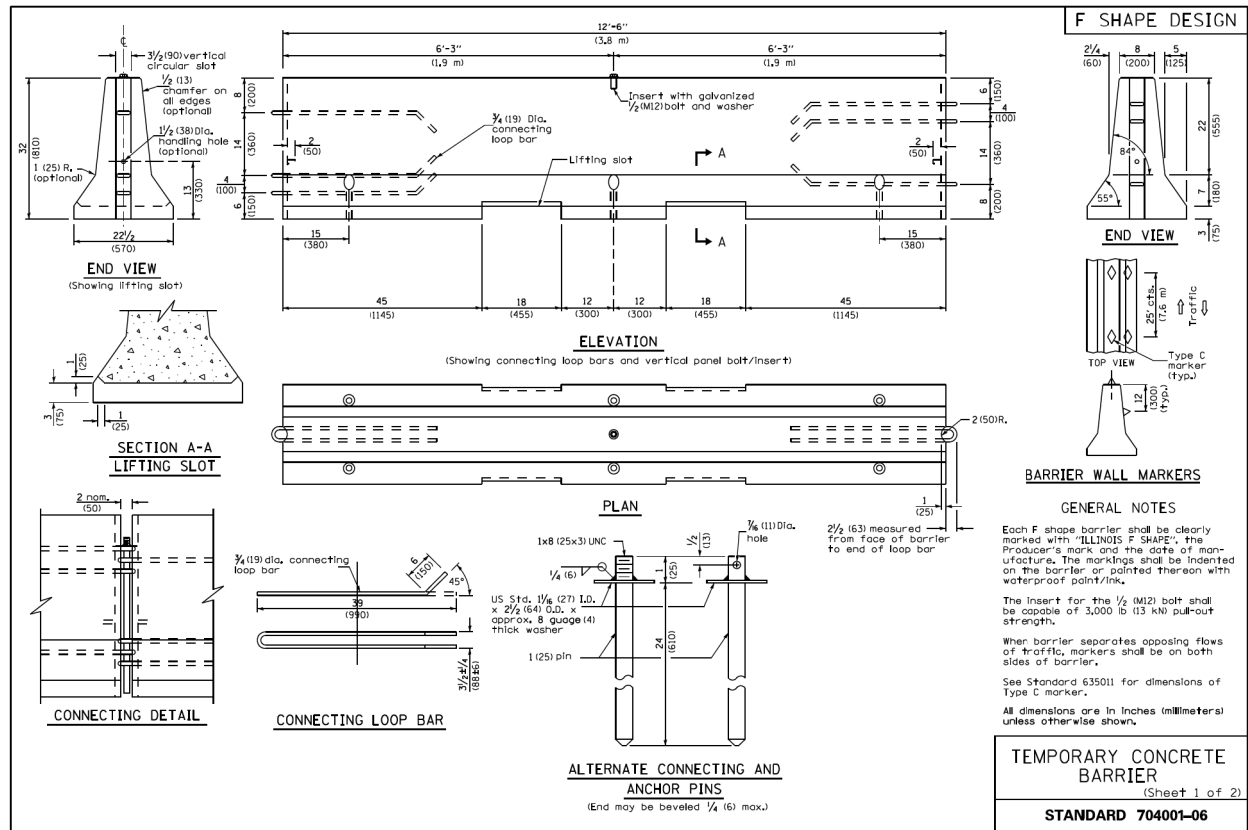
REVISION	BY	DATE	DESCRIPTION

benesch
 Alfred Benesch & Company
 35 W. Wacker Drive Suite 3300
 Chicago, Illinois 60601
 312-565-0450 Job No. 210070.11



DRAWN BY: KP	WORK ORDER: 496
CHECKED BY: TK	PID: 64527
DATE: 05/28/21	BUDGET REF:
SCALE: N.T.S	SHEET NUMBER R-013

UNION PACIFIC RAILROAD Director Structures Design
 LOCATION & DESCRIPTION:
 MP 0.87 ROCKWELL SUBDIVISION
 MAYPOLE AVENUE BRIDGE REMOVAL
 SHEET TITLE:
 SEWER CONSTRUCTION DETAILS



ESTIMATED QUANTITIES

LOCATION	UNIT	TOTAL
MAYPOLE STREET	L.F.	75.0

QUANTITIES ARE SHOWN FOR INFORMATION ONLY.

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\$\$\$ddr:tes\$\$\$

WARNING !
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ISSUED FOR
CONSTRUCTION

REVISION	BY	DATE	DESCRIPTION

benesch
Alfred Benesch & Company
35 W. Wacker Drive Suite 3300
Chicago, Illinois 60601
312-565-0450 Job No. 210070.11



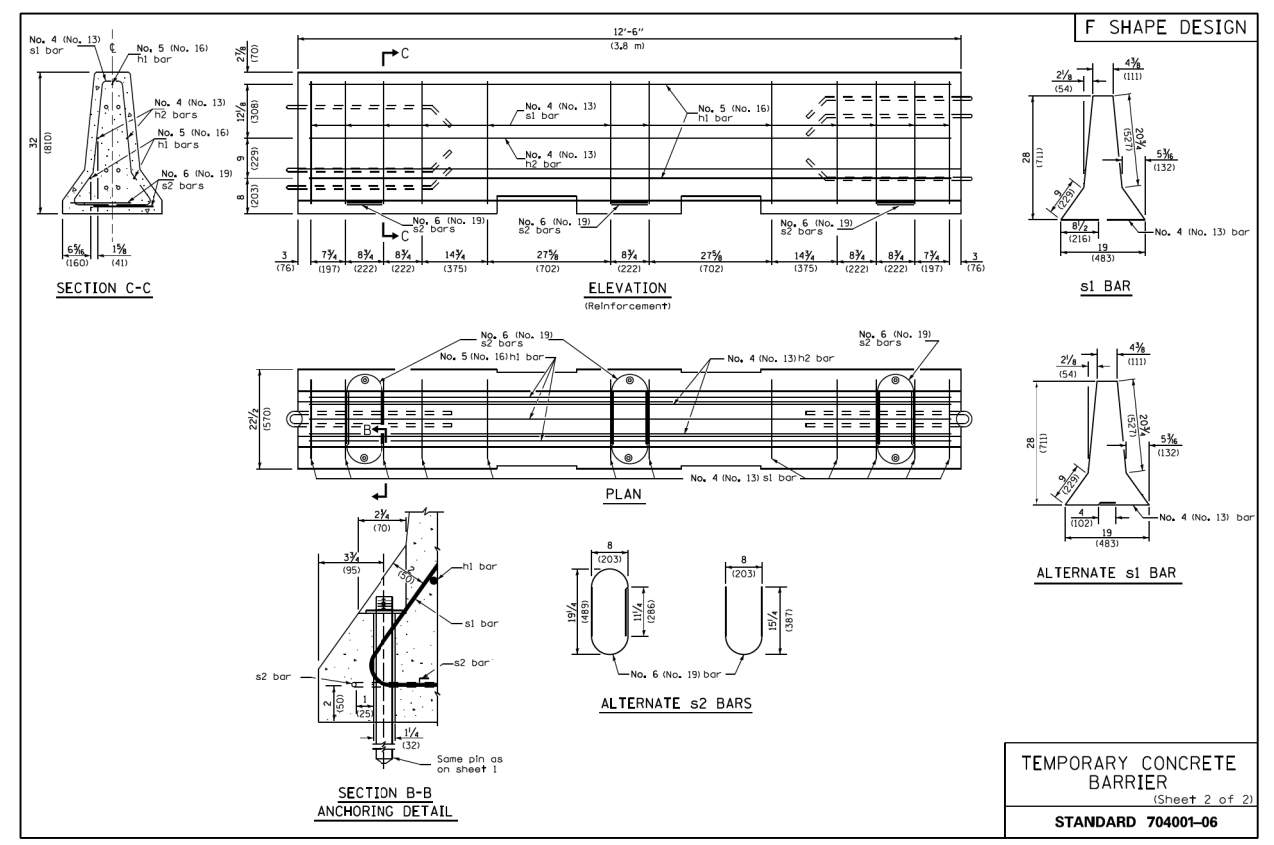
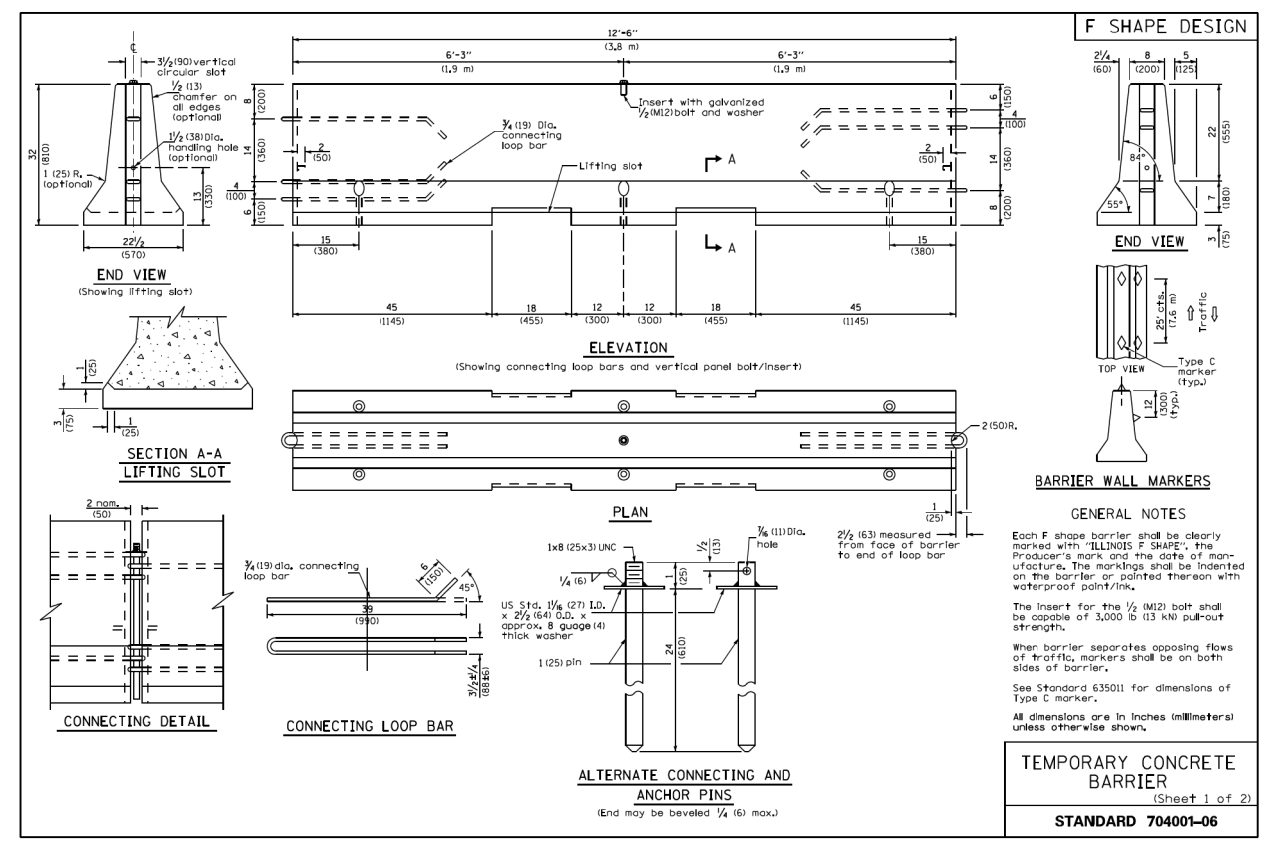
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CHECKED BY: TK	PID: 64527
DATE: 05/28/21	BUDGET REF:
SCALE: N.T.S	SHEET NUMBER R-014

UNION PACIFIC RAILROAD
Director Structures Design

LOCATION & DESCRIPTION:
MP 0.87 ROCKWELL SUBDIVISION
MAYPOLE AVENUE BRIDGE REMOVAL

SHEET TITLE:
SEWER CONSTRUCTION DETAILS

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 5/25/2021



ESTIMATED QUANTITIES

LOCATION	UNIT	TOTAL
MAYPOLE STREET	L.F.	75.0

QUANTITIES ARE SHOWN FOR INFORMATION ONLY.

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ISSUED FOR CONSTRUCTION

REVISION	BY	DATE	DESCRIPTION

benesch
 Alfred Benesch & Company
 35 W. Wacker Drive Suite 3300
 Chicago, Illinois 60601
 312-565-0450 Job No. 210070.11

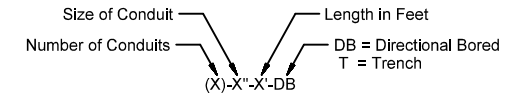


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DATE: 05/28/21	BUDGET REF:
SCALE: N.T.S	SHEET NUMBER R-015

UNION PACIFIC RAILROAD
 Director Structures Design
 LOCATION & DESCRIPTION:
 MP 0.87 ROCKWELL SUBDIVISION
 MAYPOLE AVENUE BRIDGE REMOVAL
 SHEET TITLE:
 CONCRETE BARRIER IDOT STANDARD DETAILS

Notes:

1. The Group 3 controller is located in the alley between Maypole Ave. and Washington Blvd.
2. The Group 11 controller is located in the Southeast quadrant of Campbell Ave. and the alley between Maypole Ave and Lake St.



PROPOSED CONDUIT CALLOUT

BILL OF MATERIALS
LIGHTING INSTALLATION

Description	Unit	Quantity
Helix Fdn, 5' W/10" BC	Each	1
Triplex Cable in Conduit, 2 #6, 1#8	Lin Ft	92'
PVC Conduit in Trench, SCH 80	Lin Ft	86'
Luminaire, Residential, LED	Each	1
Pole, Alu, Res., Davit, 12' 5"	Each	1
Arm, Alu, Davit, 6" Dia, 8'	Each	1
Install Conduit into Existing Helix foundation	Each	1
Pole, Steel, Anchor Base Relocate Complete	Each	1

BILL OF MATERIALS
LIGHTING REMOVAL

Description	Unit	Quantity
Underpass HPS Luminaire	Each	4
Underpass Service Cabinet	Each	1
Conduit, Rigid Steel Galv, 3/4"	Lin Ft	120'
Cable in Conduit, 1#12	Each	300'
2-1/C#6 Aerial Cable	Lin Ft	150'
Embedded Pole Removal	Each	1
Electrical Equipment Removal (Utility Pole)	Each	1
Breakdown Controller Foundation, Type A	Each	1

LEGEND

Proposed Present

⊕ ⊙ 10" B.C X 5' Helix foundation as per drawing No. 936, 12' off Face of Curb unless otherwise noted.

⊞ ⊠ Luminaire, LED, (250W HPSV Equivalent) 240V

"D" Install Conduit into existing Light pole

Atlas J-22
Group 3

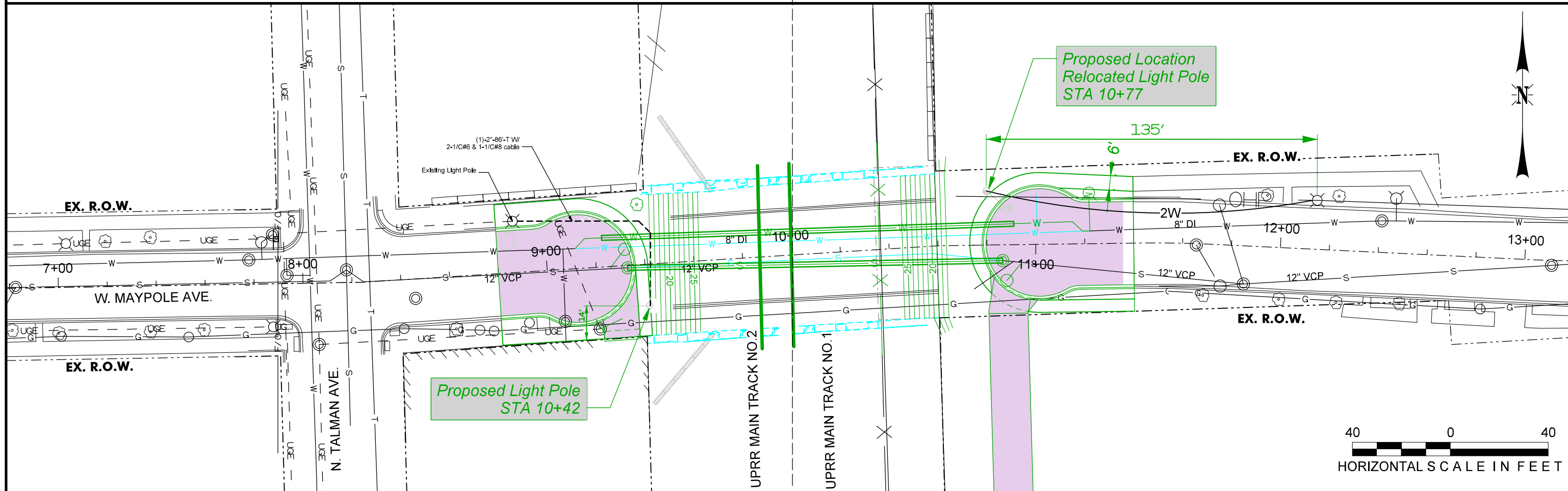
(16) 108W LED LUM.
(15) 30W LED ACORN LUM.

See Note 1

Atlas J-22
Group 11

(3) 130W LED LUM.
(5) HPS LUM.
(3) FLOOD LIGHT

See Note 2



WARNING !
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ON RAILROAD R-O-W
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**ISSUED FOR
CONSTRUCTION**

REVISION	BY	DATE	DESCRIPTION

benesch
Alfred Benesch & Company
35 W. Wacker Drive Suite 3300
Chicago, Illinois 60601
312-565-0450 Job No. 210070.11



DRAWN BY: GHT	WORK ORDER: 496
CHECKED BY: GRR	PID: 64527
DATE: 05/28/21	BUDGET REF:
SCALE: 1" = 40'	SHEET NUMBER: L-001

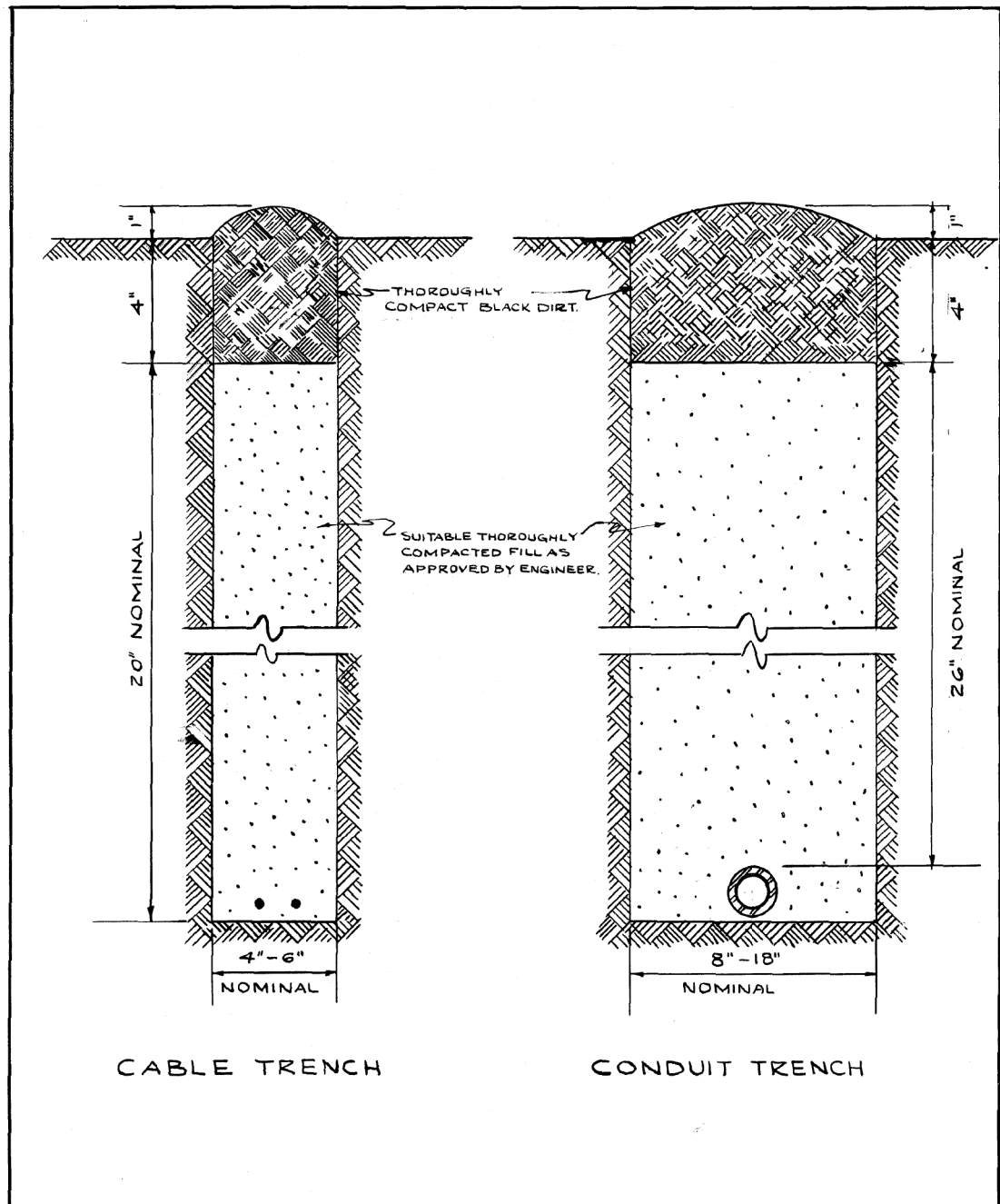
UNION PACIFIC RAILROAD
Director Structures Design

LOCATION & DESCRIPTION:
MP 0.87 ROCKWELL SUBDIVISION
MAYPOLE AVENUE BRIDGE REMOVAL

SHEET TITLE:
PROPOSED LIGHTING PLAN

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 5/25/2021

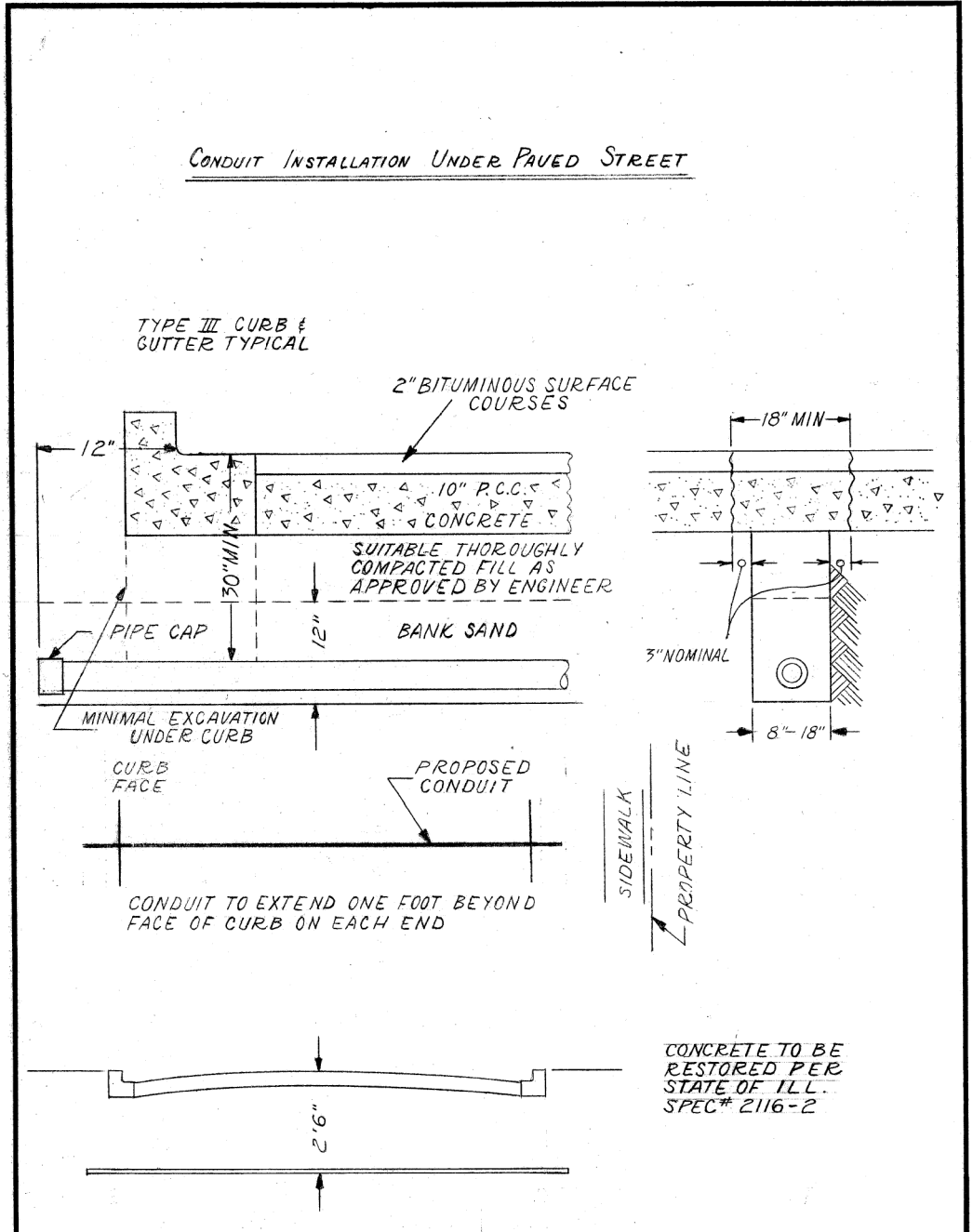
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 5/25/2021



NOTE
 EXCESS SOIL FROM TRENCH TO BE COMPLETELY REMOVED FROM SITE AS SOON AS PRACTICABLE.
 BLACK DIRT TO BE TAMPED & THOROUGHLY COMPACTED AS SHOWN.

STANDARD METHOD FOR BACKFILLING CABLE & CONDUIT TRENCHES IN SODDED PARKWAY & LAWNS

CITY OF CHICAGO			
DEPT. OF STREETS & SANITATION			
DIVISION OF ELECTRICAL ENGINEERING			
REVISION	CITY OF CHICAGO		
A	DEPT. OF STREETS & SANITATION		
B	DIVISION OF ELECTRICAL ENGINEERING		
C	DRAWN.	CHECKED.	ENGINEER.
D	W. E. HAEP.	M. J. HINE	J. O'CONNOR.
E	ENGINEER IN CHARGE.	DRG. NO.	
F	Supt. of Const.		579
G	DEPUTY COM.:		
H	SIZE: 8 1/2 X 14" SCALE: N DATE: 7-14-61		



INSTALLATION METHOD OF INSTALLING CONDUIT UNDER PAVED ROADWAY

CITY OF CHICAGO
 DEPT. OF STREETS AND SANITATION
 BUREAU OF ELECTRICITY
 DIVISION OF ELECTRICAL ENGINEERING

DRAWN	CHECKED	ENGINEER
A.M. JOHNSON	R. SYCKAUSKI	R.L. MARTIN
ENGINEER OF ELECTRICITY		DRG. NO.
8 1/2 X 14"		813
SCALE: N.T.S.		DATE: 3-13-81

WARNING!
 FIBER OPTIC CABLE
 ON RAILROAD R-O-W
 CALL BEFORE YOU DIG
 1-800-336-9193

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 CONSTRUCTION**

REVISION	BY	DATE	DESCRIPTION

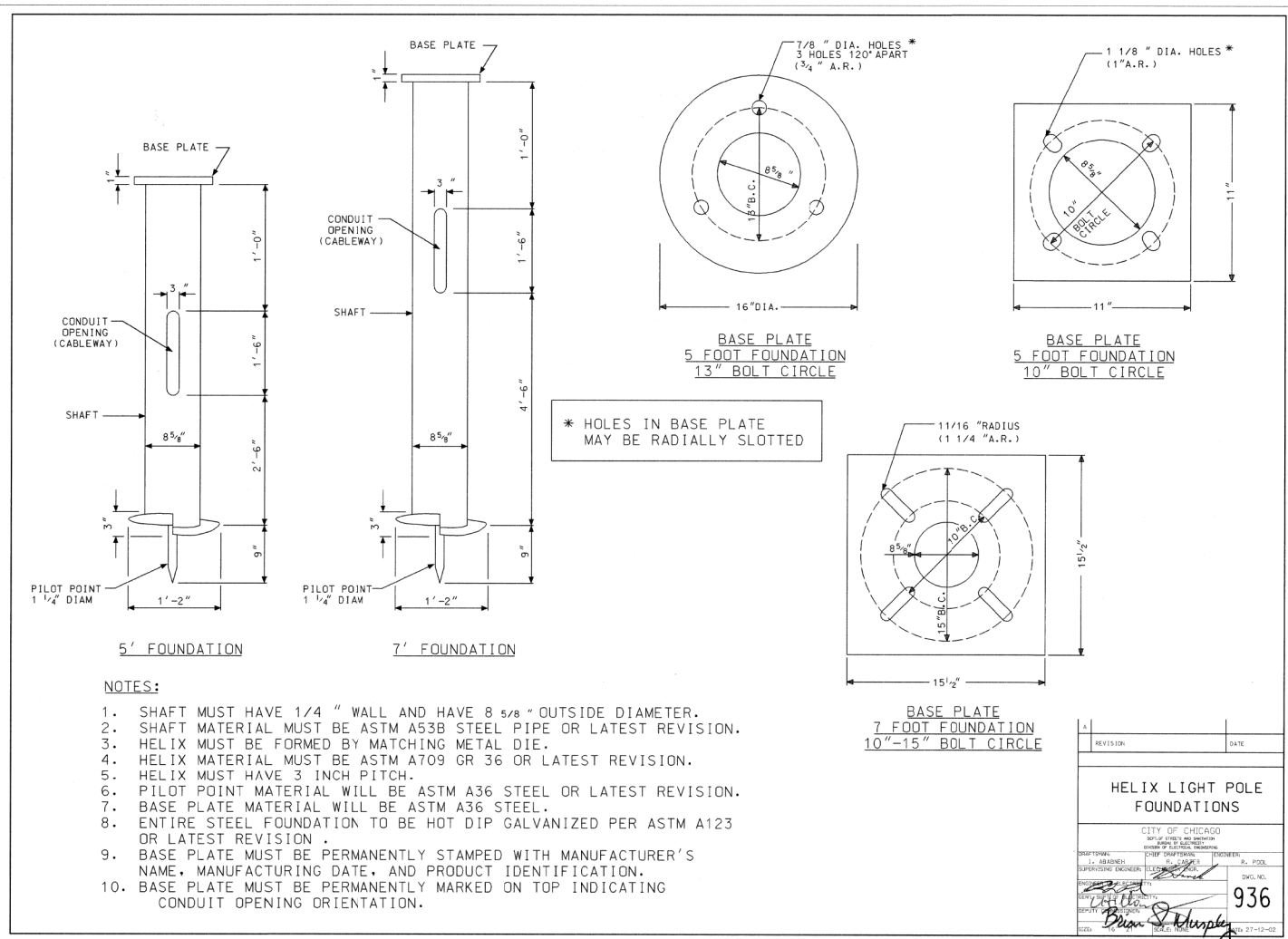
benesch
 Alfred Benesch & Company
 35 W. Wacker Drive Suite 3300
 Chicago, Illinois 60601
 312-565-0450 Job No. 210070.11



DRAWN BY:	WORK ORDER:
GHT	496
CHECKED BY:	PID:
GRR	64527
DATE:	BUDGET REF:
05/28/21	
SCALE:	SHEET NUMBER:
N.T.S.	L-002

UNION PACIFIC RAILROAD	Director Structures Design
LOCATION & DESCRIPTION:	MP 0.87 ROCKWELL SUBDIVISION MAYPOLE AVENUE BRIDGE REMOVAL
SHEET TITLE:	LIGHTING DETAILS

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 5/25/2021



REVISION	DATE

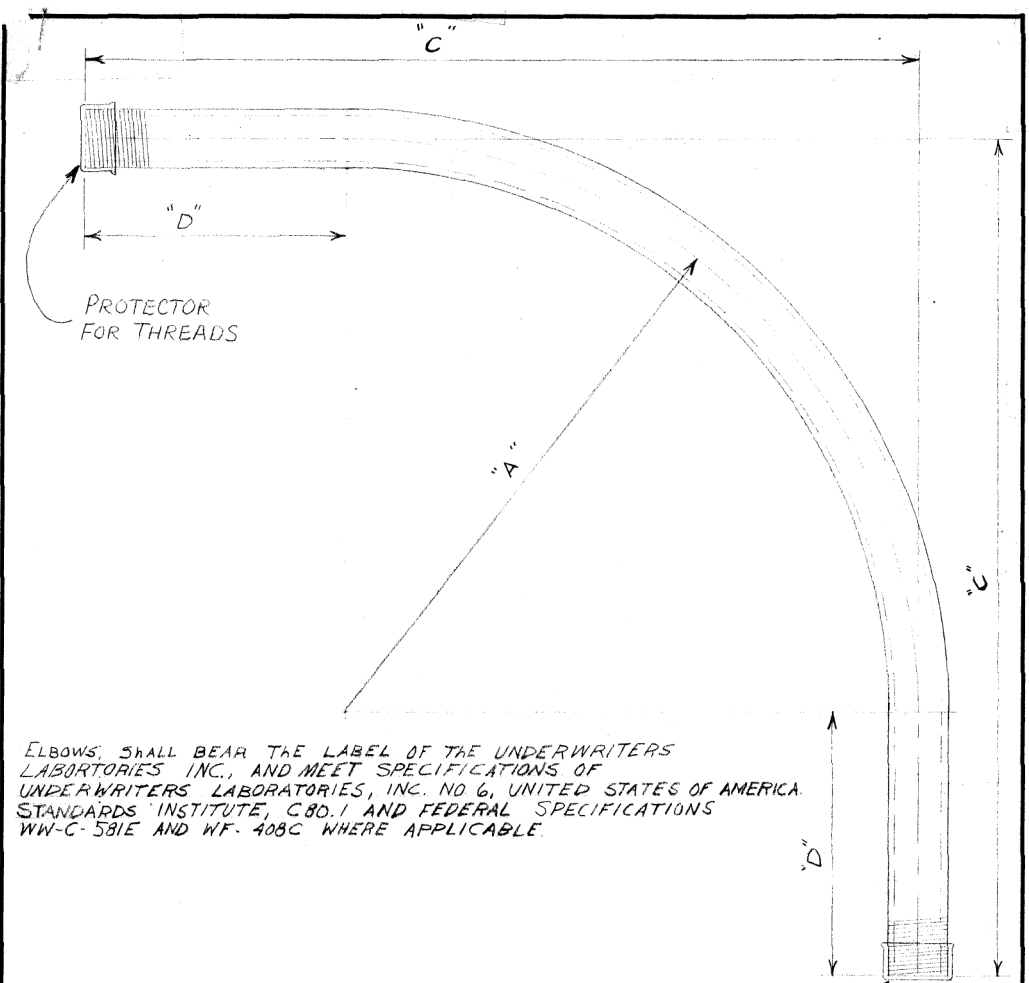
HELIX LIGHT POLE FOUNDATIONS

CITY OF CHICAGO
 DEPT. OF STREETS AND SANITATION
 BUREAU OF ELECTRICITY
 DIVISION OF ELECTRICAL ENGINEERING

DESIGNED BY: [Signature] DATE: [Blank]
 SUPERVISING ENGINEER: [Signature] DATE: [Blank]
 DRAWN BY: [Signature] DATE: [Blank]
 CHECKED BY: [Signature] DATE: [Blank]
 ENGINEER: [Signature] DATE: [Blank]

DWG. NO. **936**

DATE: 05-27-12



ELBOWS SHALL BEAR THE LABEL OF THE UNDERWRITERS LABORATORIES INC., AND MEET SPECIFICATIONS OF UNDERWRITERS LABORATORIES, INC. NO. 6, UNITED STATES OF AMERICA. STANDARDS INSTITUTE, C80.1 AND FEDERAL SPECIFICATIONS WW-C-581E AND WF-408C WHERE APPLICABLE.

NOTE:
 TWO THREAD PROTECTORS TO BE FURNISHED ON EACH ELBOW, PROTECTOR TO COVER A MINIMUM OF TEN THREADS.

TABLE OF DIMENSIONS

CONDUIT SIZE	A"	C"	D"	COMMODITY CODE
1 1/4"	24"	35"	11"	09-4001-0510
1 1/2"	24"	35"	11"	09-4001-0520
2"	24"	35"	11"	09-4001-4126
2 1/2"	24"	35"	11"	09-4001-4128
3"	24"	35"	11"	09-4001-4230
4"	24"	35"	11"	09-4001-0000

B SPECIFICATIONS REVISED

A REVISED DIMENSIONS ON 3" & 4" CONDUIT L.P.

ELBOW, CONDUIT, RIGID GALVANIZED STEEL, LARGE RADIUS

REVISED	DATE	BY	CHECKED	ENGINEER
A	7-22-71	[Signature]	[Signature]	[Signature]
B	4-3-79	[Signature]	[Signature]	[Signature]
C				
D				
E				
F				
G				

CITY OF CHICAGO
 DEPT. OF STREETS AND SANITATION
 BUREAU OF ELECTRICITY
 DIVISION OF ELECTRICAL ENGINEERING

DRAWN BY: LON BURDY
 CHECKED BY: M.S.
 ENGINEER: M. SHINE
 DRG. NO. **11825**

DATE: 6-2-71
 SCALE: 3/16"

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REVISION	BY	DATE	DESCRIPTION

benesch
 Alfred Benesch & Company
 35 W. Wacker Drive Suite 3300
 Chicago, Illinois 60601
 312-565-0450 Job No. 210070.11



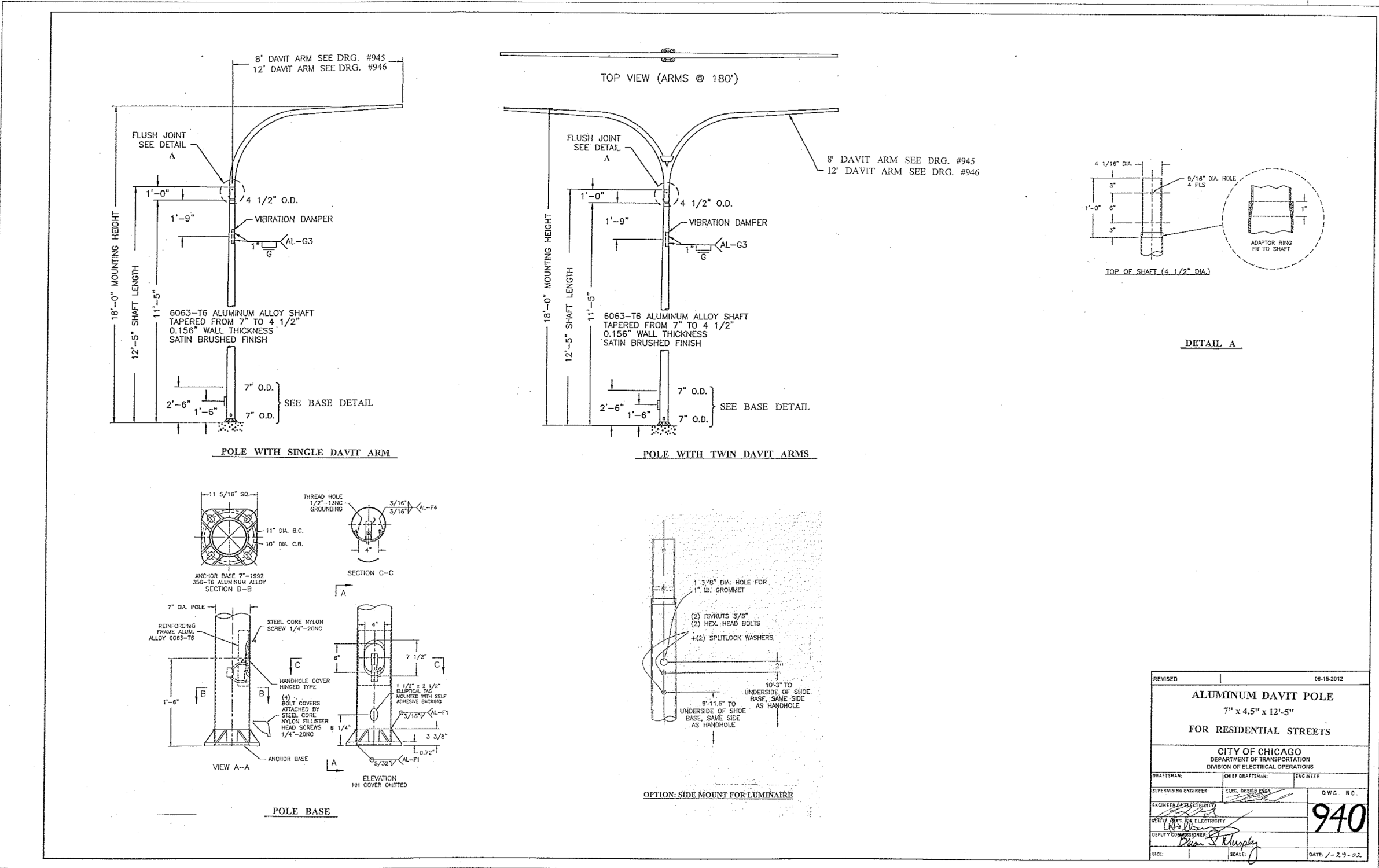
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CHECKED BY: GRR	PID: 64527
DATE: 05/28/21	BUDGET REF:
SCALE: N.T.S	SHEET NUMBER: L-003

UNION PACIFIC RAILROAD
 Director Structures Design

LOCATION & DESCRIPTION:
 MP 0.87 ROCKWELL SUBDIVISION
 MAYPOLE AVENUE BRIDGE REMOVAL

SHEET TITLE:
 LIGHTING DETAILS

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 5/23/2012



REVISED	06-15-2012
ALUMINUM DAVIT POLE	
7" x 4.5" x 12'-5"	
FOR RESIDENTIAL STREETS	
CITY OF CHICAGO DEPARTMENT OF TRANSPORTATION DIVISION OF ELECTRICAL OPERATIONS	
DRAFTSMAN:	CHIEF DRAFTSMAN: ENGINEER
SUPERVISING ENGINEER: ELRC, DESIGN ENGR	D.W.C. N.O.
ENGINEER: ELECTRICITY	940
DEPUTY COMMISSIONER: ELECTRICITY	
DATE: 05/28/12	SCALE: /-2.9-0.2

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DRAWN BY: GHT	WORK ORDER: 496
CHECKED BY: GRR	PID: 64527
DATE: 05/28/12	BUDGET REF:
SCALE: N.T.S	SHEET NUMBER: L-004

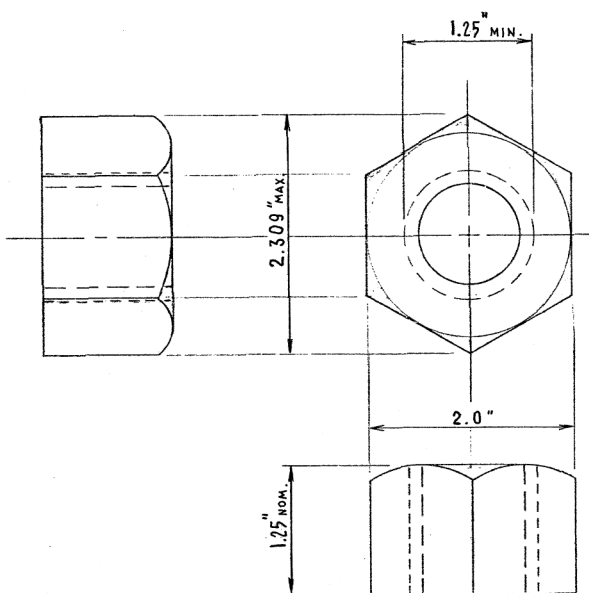
UNION PACIFIC RAILROAD

Director Structures Design

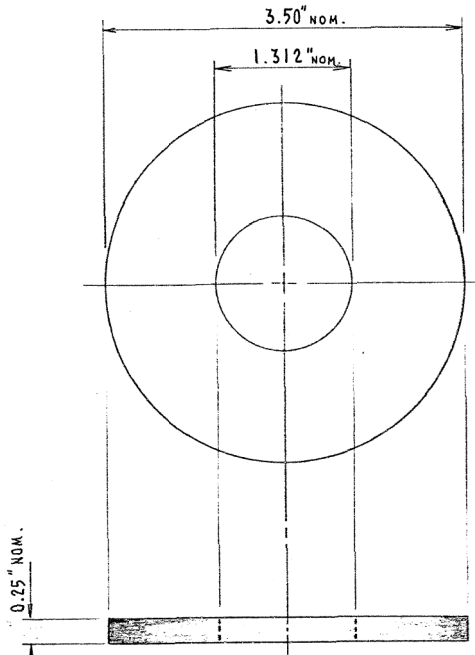
LOCATION & DESCRIPTION:
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 MAYPOLE AVENUE BRIDGE REMOVAL

SHEET TITLE: LIGHTING DETAILS

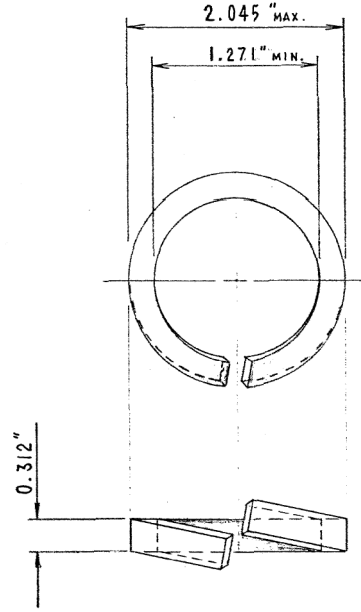
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 5/25/2021



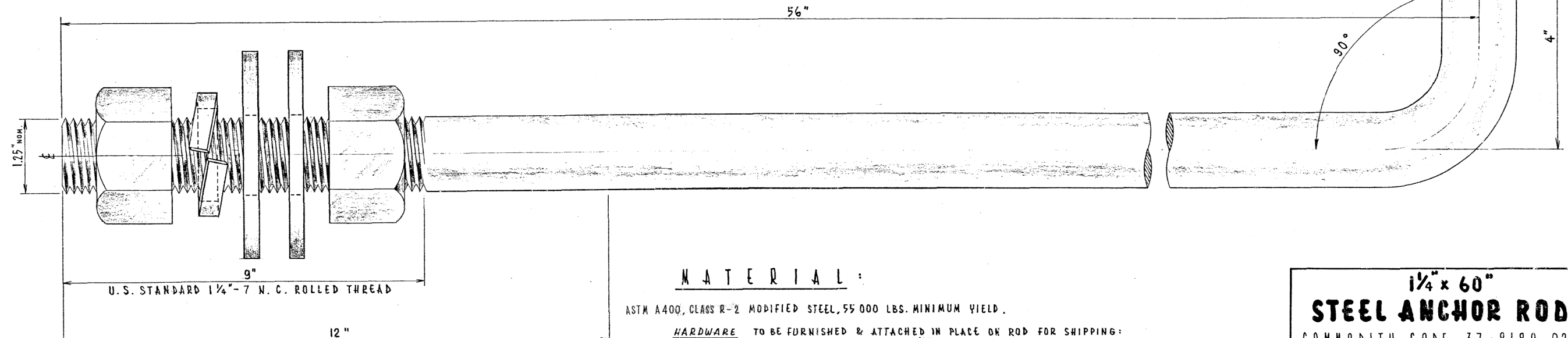
HEXAGON NUT
 AMER. NAT'L. STD. HEAVY HEX. FLAT NUT
 (ANSI B 18.2.2 - 1972)



FLAT WASHER
 AMER. NAT'L. STD. TYPE "B"
 SERIES "W"
 (ANSI B 18.22.1-1965, R1975)



LOCK WASHER
 AMER. NAT'L. STD. HELICAL SPRING LOCK WASHER
 (ANSI B 18.21.1 - 1972)



U.S. STANDARD 1/4"-7 N. C. ROLLED THREAD

A ZINC COATING, 0.0021 INCH IN THICKNESS SHALL BE APPLIED OVER THIS LENGTH AND COVERED WITH HEAVY NO-OX-ID, OR EQUAL, RUST INHIBITING COMPOUND

MATERIAL:

ASTM A400, CLASS R-2 MODIFIED STEEL, 55 000 LBS. MINIMUM YIELD.

HARDWARE TO BE FURNISHED & ATTACHED IN PLACE ON ROD FOR SHIPPING:
 2 HEX. NUTS, HEAVY, GALV., 1/4"
 2 WASHERS, STEEL, ROUND, GALV., TYPE "B", SERIES "W", 1/4"
 1 WASHER, LOCK, STEEL, GALV., HELICAL SPRING, REGULAR, 1/4"

BOLT & NUTS SHALL HAVE AN AMERICAN STANDARD CLASS 2 OR 3 FIT.
 (NUT IS TAPPED OVERSIZE BY 1/32")

1/4" x 60"			
STEEL ANCHOR ROD			
COMMODITY CODE 37-8180-0236			
REVISED	CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING		
A	JULY 29, 1982	DRAWN EUGENE GERULIS	CHECKED A. DUKLSRYP
B		ELEC. DESIGN ENGINEER:	ENGINEER M. SHINE
C		<i>M. Shine</i>	DRG. NO.
D		ENGINEER OF ELECTRICITY:	811
E		<i>Thomas Hill</i>	
F		DEPUTY COMMISSIONER:	
G		<i>Charles E. Babbly</i>	DATE AUG. 3, 1982
SIZE 17" x 28"		SCALE	

REDRAWN

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REVISION	BY	DATE	DESCRIPTION

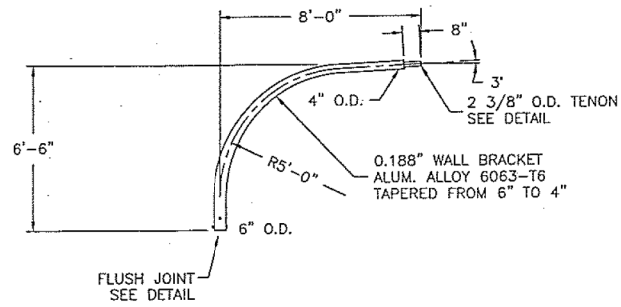
benesch
 Alfred Benesch & Company
 35 W. Wacker Drive Suite 3300
 Chicago, Illinois 60601
 312-565-0450 Job No. 210070.11



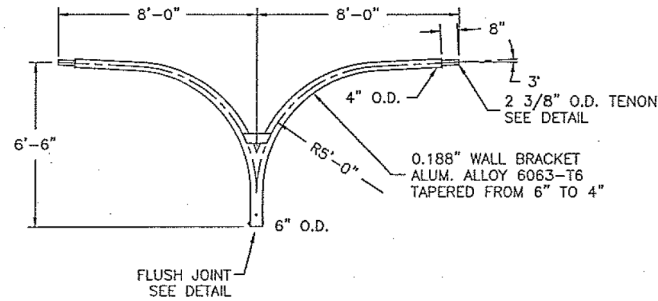
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CHECKED BY: GRR	PID: 64527
DATE: 05/28/21	BUDGET REF:
SCALE: N.T.S	SHEET NUMBER L-005

UNION PACIFIC RAILROAD
 Director Structures Design
 LOCATION & DESCRIPTION:
 MP 0.87 ROCKWELL SUBDIVISION
 MAYPOLE AVENUE BRIDGE REMOVAL
 SHEET TITLE:
 LIGHTING DETAILS

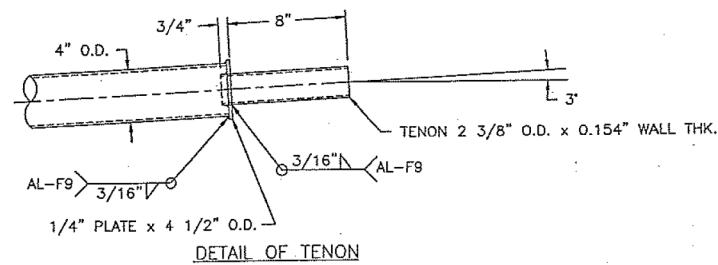
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 5/23/2012



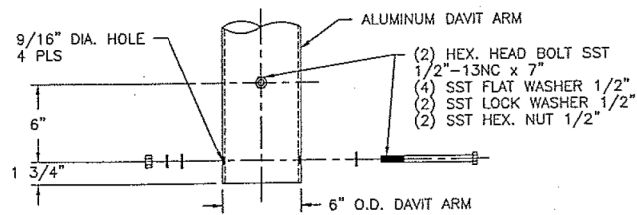
SINGLE DAVIT ARM



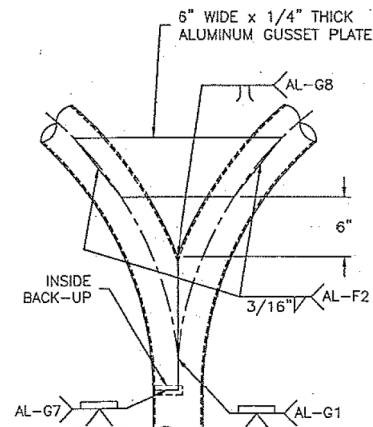
TWIN DAVIT ARM AT 180°



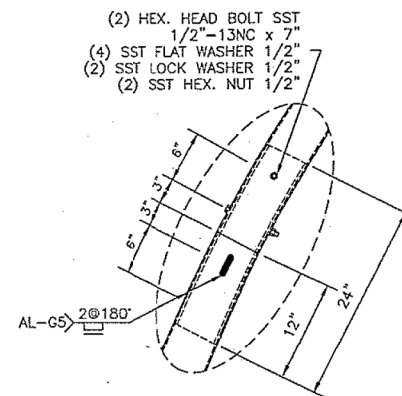
DETAIL OF TENON



DETAIL OF FLUSH JOINT



TWIN ARM (180°) WELD DETAIL



SPLICE DETAIL

REVISED	08-15-2012
ALUMINUM DAVIT ARM 6" x 8'-0"	
CITY OF CHICAGO DEPARTMENT OF TRANSPORTATION DIVISION OF ELECTRICAL OPERATIONS	
ENGINEER	DATE: 1-29-02
CHIEF DRAFTSMAN	DWG. NO. 948
SUPERVISING ENGINEER	SCALE
ENGINEER OF ELECTRICITY	SIZE
DEPT. Supt. OF CONSTRUCTION	
DEPUTY COMMISSIONER	

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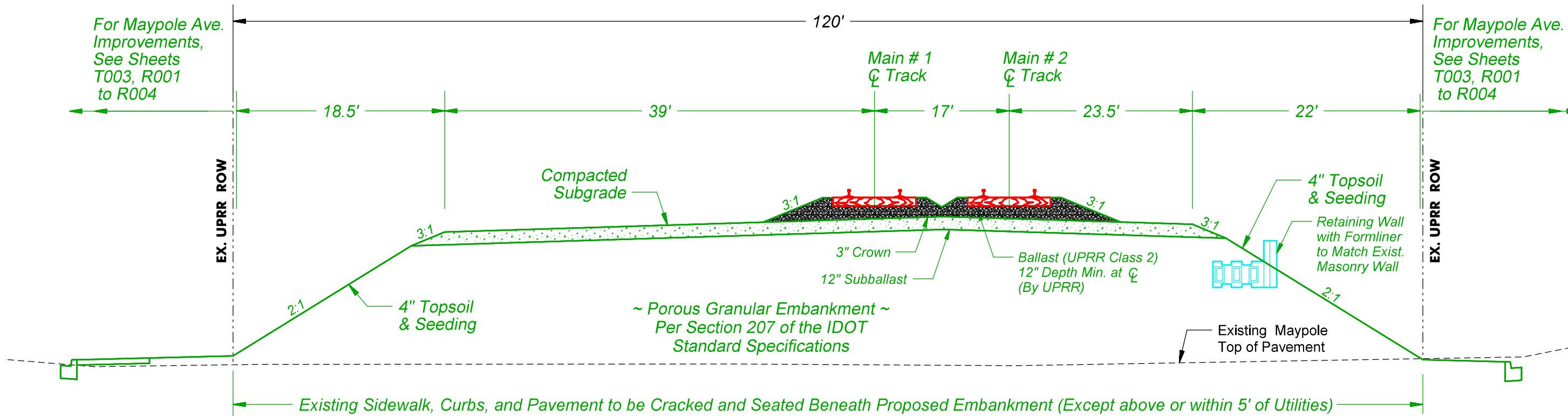


DRAWN BY: GHT
 CHECKED BY: GRR
 DATE: 05/28/12
 SCALE: N.T.S.

WORK ORDER: 496
 PID: 64527
 BUDGET REF:
 SHEET NUMBER: L-006

UNION PACIFIC RAILROAD
 Director Structures Design
 LOCATION & DESCRIPTION: MP 0.87 ROCKWELL SUBDIVISION
 MAYPOLE AVENUE BRIDGE REMOVAL
 SHEET TITLE: LIGHTING DETAILS

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 5/25/2021



Typical Track Section Maypole Viaduct Closure

Looking South (Up Station)
 Sta. 46+13 To Sta. 46+88
 Not To Scale

NOTES:

1. UPRR forces will perform all track work, with the exception of removal of existing track. UPRR will cut the existing rails and the contractor shall remove and dispose of all track material with bridge removal work.
2. The contractor will be responsible for constructing proposed embankment and track bed up to the top of the subballast layer. UPRR will furnish & install all ballast, ties, rail, and other track materials.
3. Existing and new track within the project limits will be surfaced and lined by UPRR forces once all other work is complete.

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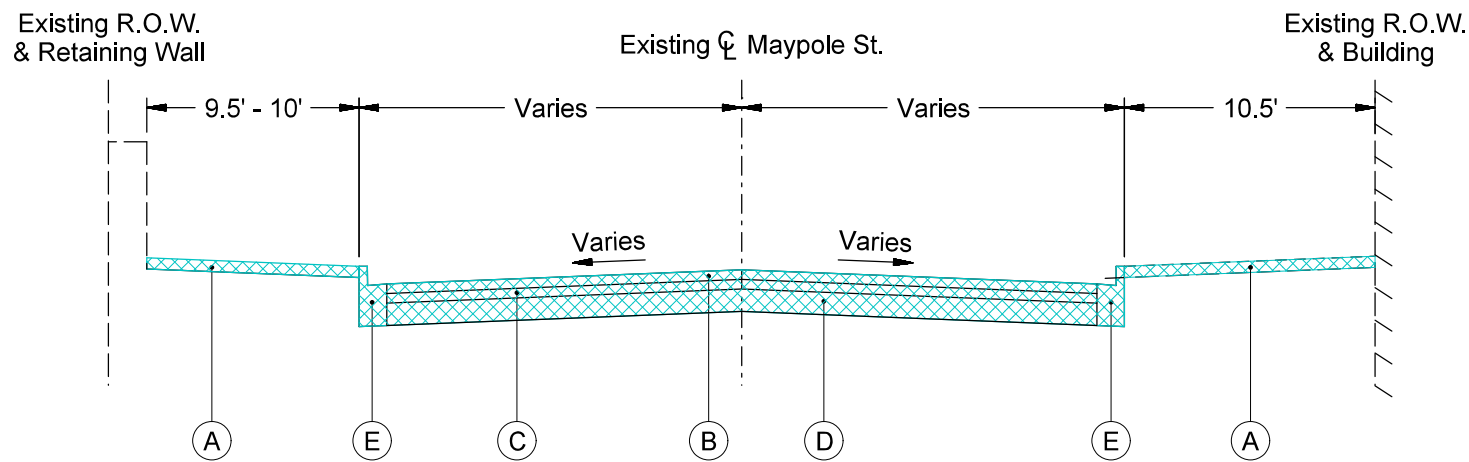
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CHECKED BY: WS	PID: 64527
DATE: 05/28/21	BUDGET REF:
SCALE: N.T.S	SHEET NUMBER: T-001

UNION PACIFIC RAILROAD

Director Structures Design

LOCATION & DESCRIPTION:
 MP 0.87 ROCKWELL SUBDIVISION
 MAYPOLE AVENUE BRIDGE REMOVAL

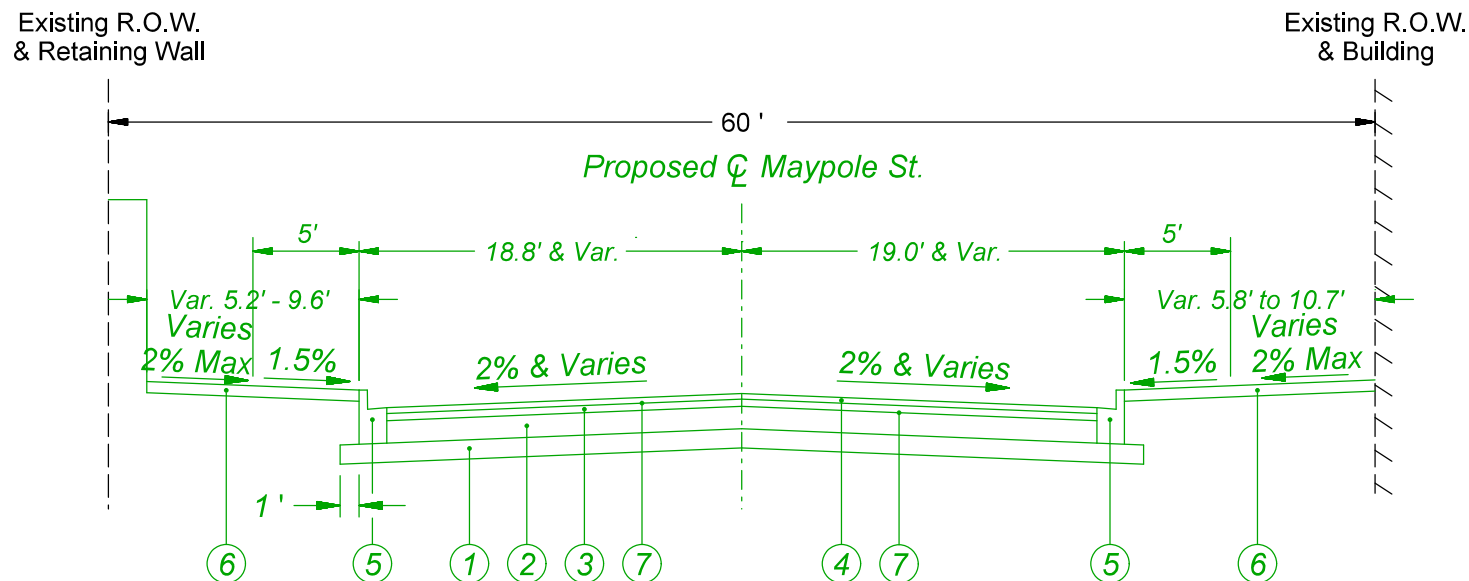
SHEET TITLE:
RAILROAD TYPICAL SECTION



EXISTING TYPICAL SECTION
Sta. 8+80.0 to Sta. 9+36.5

Existing Legend

- A. P.C. Concrete Sidewalk
- B. HMA Surface Course
- C. HMA Binder Course
- D. P.C. Concrete Base Course
- E. Curb & Gutter
- Removal



PROPOSED TYPICAL SECTION
Sta. 8+80.0 to Sta. 9+36.5

Proposed Legend

1. 6" Sub-base Granular Material, Ty. B
2. 7" P.C. Concrete Base Course
3. 2 1/4" Hot-Mix-Asphalt Binder Course, IL-19.0, N50
4. 1 3/4" Hot-Mix-Asphalt Surface Course, Mix "D", N50
5. Combination Concrete Curb & Gutter, Type B-6.12
6. P.C. Concrete Sidewalk, 5"
7. Bituminous Material (Prime Coat)

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REVISION	BY	DATE	DESCRIPTION

Alfred Benesch & Company
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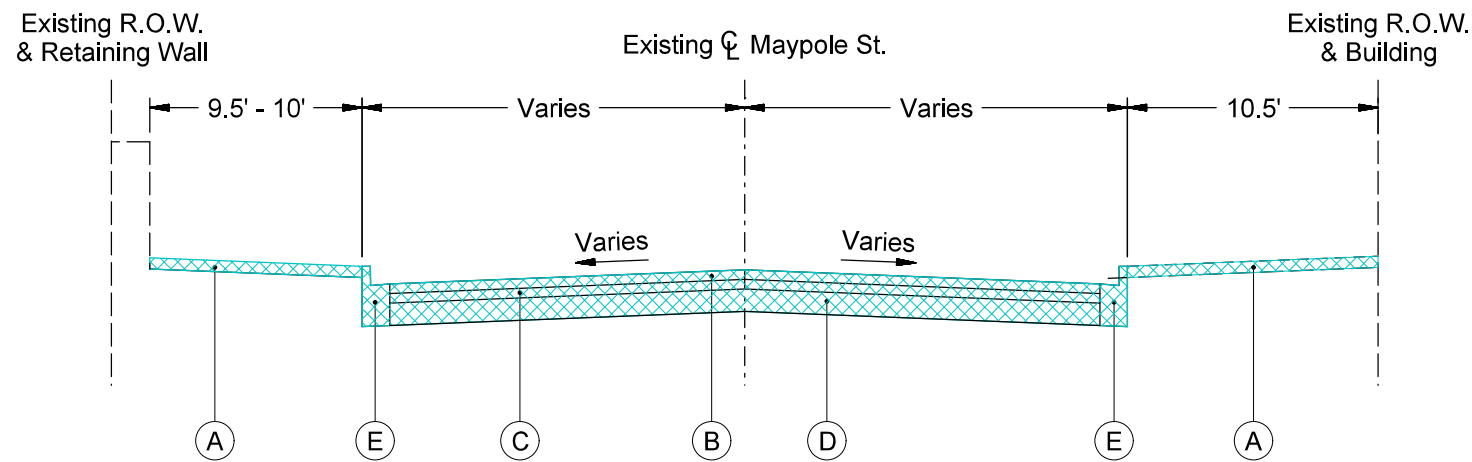


DRAWN BY: KP	WORK ORDER: 496
CHECKED BY: TK	PID: 64527
DATE: 05/28/21	BUDGET REF:
SCALE: N.T.S	SHEET NUMBER T-002

UNION PACIFIC RAILROAD Director Structures Design

LOCATION & DESCRIPTION:
 MP 0.87 ROCKWELL SUBDIVISION
 MAYPOLE AVENUE BRIDGE REMOVAL

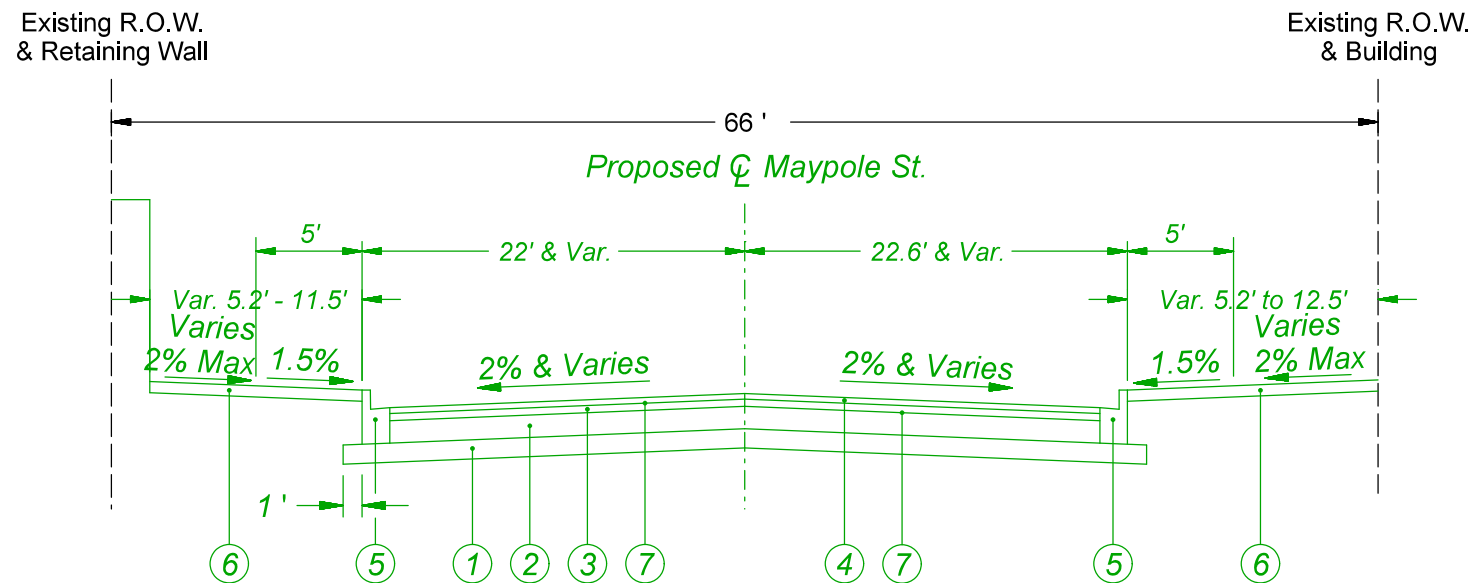
SHEET TITLE:
 MAYPOLE AVENUE TYPICAL SECTION



EXISTING TYPICAL SECTION
Sta. 8+80.0 to Sta. 9+36.5

Existing Legend

- A. P.C. Concrete Sidewalk
- B. HMA Surface Course
- C. HMA Binder Course
- D. P.C. Concrete Base Course
- E. Curb & Gutter
- Removal



PROPOSED TYPICAL SECTION
Sta. 8+80.0 to Sta. 9+36.5

Proposed Legend

1. 6" Sub-base Granular Material, Ty. B
2. 7" P.C. Concrete Base Course
3. 2 1/4" Hot-Mix-Asphalt Binder Course, IL-19.0, N50
4. 1 3/4" Hot-Mix-Asphalt Surface Course, Mix "D", N50
5. Combination Concrete Curb & Gutter, Type B-6.12
6. P.C. Concrete Sidewalk, 5"
7. Bituminous Material (Prime Coat)

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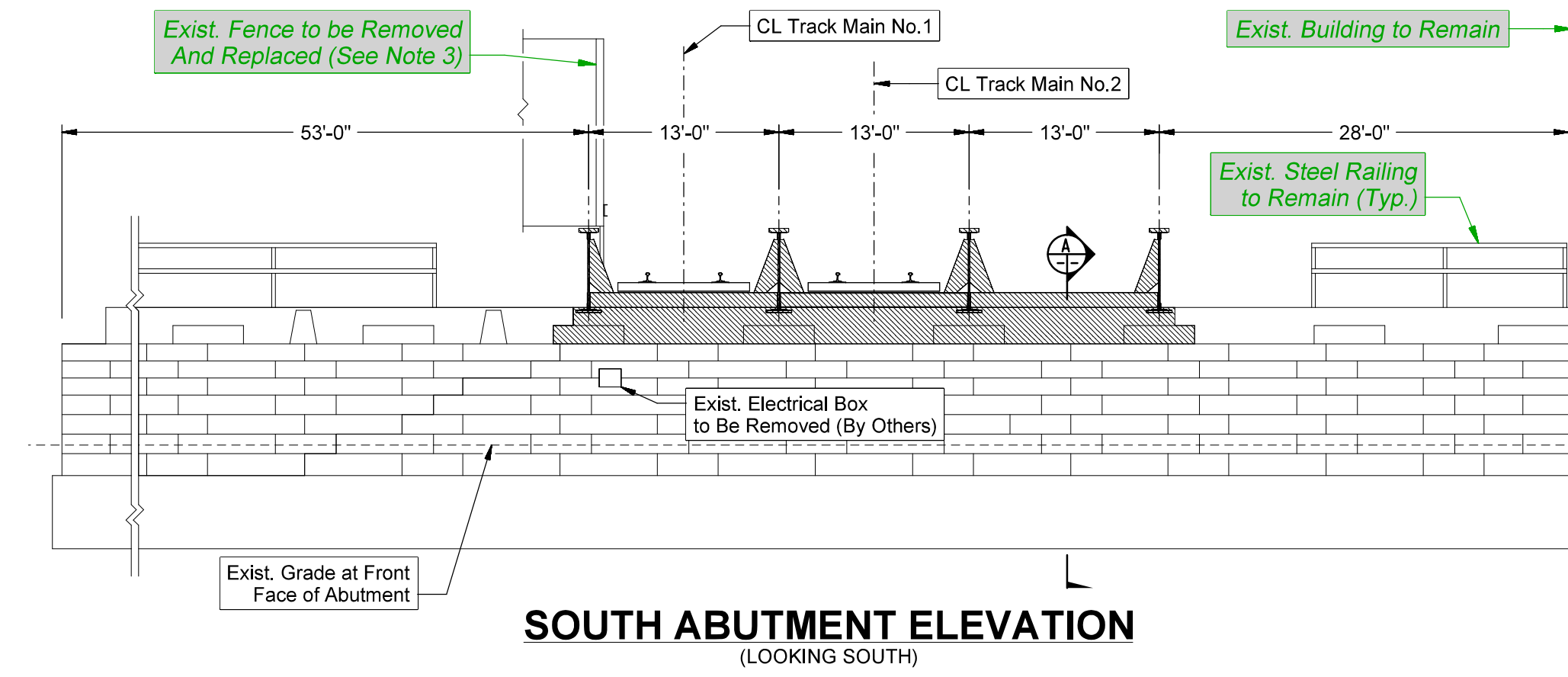
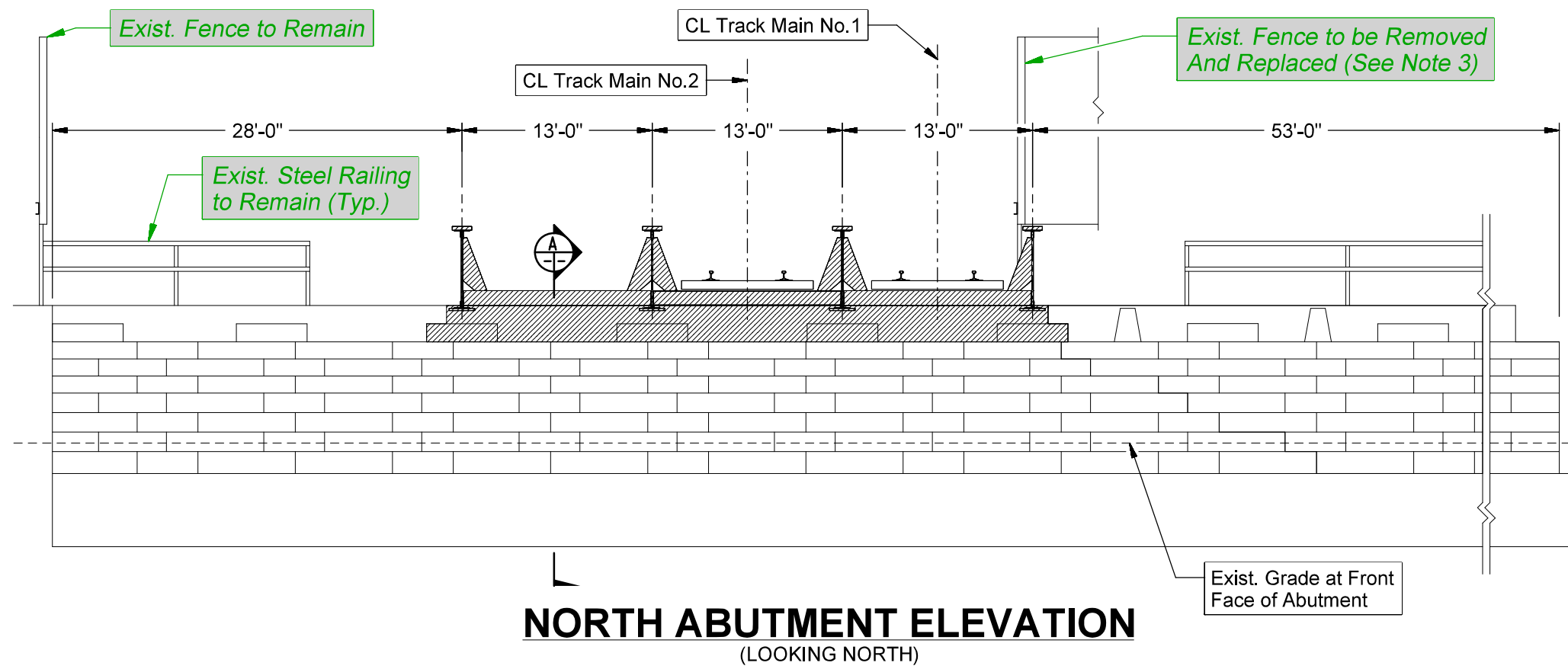
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DATE: 05/28/21	BUDGET REF:
SCALE: N.T.S	SHEET NUMBER T-003

UNION PACIFIC RAILROAD Director Structures Design

LOCATION & DESCRIPTION:
 MP 0.87 ROCKWELL SUBDIVISION
 MAYPOLE AVENUE BRIDGE REMOVAL

SHEET TITLE:
 MAYPOLE AVENUE TYPICAL SECTION

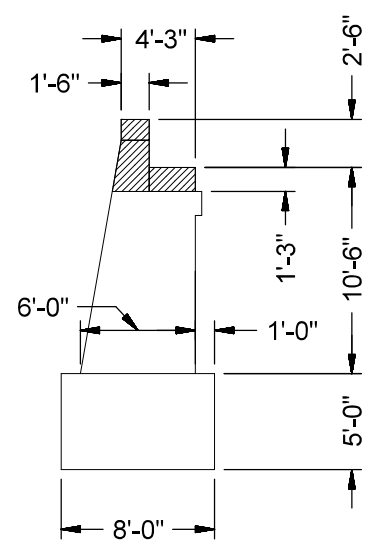
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 5/25/2021



NOTES:

1. Approximate weight of structural steel to be removed at Maypole Ave = 221,000 lbs.
2. Remove Maypole Ave bridge includes removal of the following: bridge structural steel, columns, bridge abutments, fence, railing, bridge ties, rail, ballast, and other attached appurtenances. This item also includes removal and replacement of embankment and steel sheeting required for the bridge abutment removal to the limits on the plans. This item also includes proper disposal of all items removed.
3. Fence installed to replace existing fence on East side of structure shall be an amico segura fence with razor wire on top. Contractor shall select a style of fence to be approved by UPRR.
4. Existing abutment masonry shall remain in locations adjacent to retaining walls.

Approximate Limits of Removal



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DRAWN BY: KBT	WORK ORDER: 496
CHECKED BY: MJO	PID: 64527
DATE: 05/28/21	BUDGET REF:
SCALE: N.T.S	SHEET NUMBER: S-001

UNION PACIFIC RAILROAD
 Director Structures Design
 LOCATION & DESCRIPTION:
 MP 0.87 ROCKWELL SUBDIVISION
 MAYPOLE AVENUE BRIDGE REMOVAL
 SHEET TITLE:
 STRUCTURAL REMOVAL DETAILS