ADDENDUM NUMBER 1

GMIA Taxiway F Reconstruction - 2016
Milwaukee, WI

Project Number: A195-16008
Date of Addendum: 8/11/16

This Addendum to the Contract Documents is issued to modify, explain or correct the original documents, dated 8/01/2016, and is hereby made part of the Contract Documents. Acknowledge receipt of this Addendum in the space provided on the Bid Form, or bid may be rejected.

1. **BID FORM**
   a. No Change

2. **PLAN SHEETS**
   a. Replace the entire original plan set dated 8/1/2016, with the plan set with revisions dated 08/11/2016.

3. **SPECIFICATIONS**
   a. 403-5.2a ADD: Air Voids will be evaluated for acceptance in accordance with 403-5.1a(2). Mat density will be evaluated for acceptance in accordance with paragraph 403-5.2b(a). Joint density will be evaluated for acceptance in accordance with paragraph 403-5.2b(2).

End of Addendum No. 1

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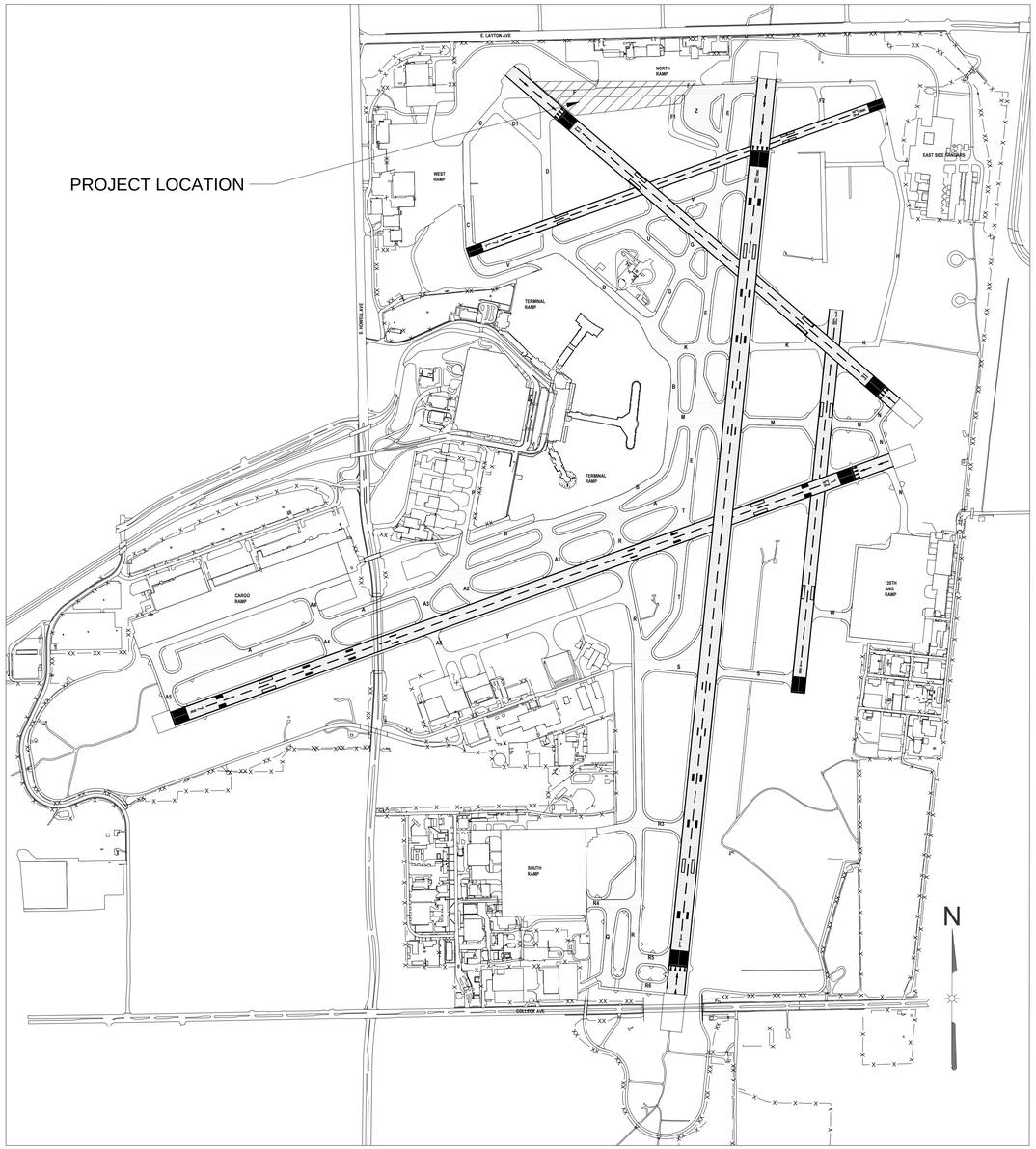
GENERAL MITCHELL INTERNATIONAL AIRPORT (MKE)

A195-16008 : GMIA TAXIWAY F RECONSTRUCTION - 2016

5300 S. Howell Ave. Milwaukee, WI 53207

Milwaukee County Dept. of Administrative Services
FACILITIES MANAGEMENT DIVISION
Architectural, Engineering & Environmental Services

DOWNTOWN OFFICE: 633 W WISCONSIN AVE; SUITE 1000 MILWAUKEE, WI 53208
AIRPORT ENGINEERING OFFICE: 5300 S. HOWELL AVE MILWAUKEE, WI 53207



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CIVIL - AIRPORT

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DIRECTOR, GMIA: DocuSigned by: Ismael Bonilla 9010D51BA16A45E... ISMAEL BONILLA

DIRECTOR, AE&ES.: DocuSigned by: Greg High B9605AA15A3848... GREG HIGH

AIRPORT ENGINEER: DocuSigned by: Jim Zsebe B33E30F2CA2B4... JAMES ZSEBE, P.E.

PROJECT MANAGER: DocuSigned by: Sean Hayes 7AE8273DDD304C... SEAN HAYES, P.E.

GENERAL MITCHELL INTERNATIONAL AIRPORT
GMIA TAXIWAY F PAVEMENT RECONSTRUCTION
5300 S. HOWELL AVE., MILWAUKEE, WI, 53207

Milwaukee County Dept. of Administrative Services
FACILITIES MANAGEMENT DIVISION
Architectural, Engineering & Environmental Services
633 W. WISCONSIN AVE, SUITE 1000; MILWAUKEE, WI 53203
AIRPORT ENGINEERING, 5300 S. HOWELL AVE; MILWAUKEE, WI 53207

REVISIONS:
08/11/2016

DATE: 8/01/2016
PROJECT: A195-16008
SITE NO: 290
BUILDING NO: N/A

TITLE SHEET
C100

1	1 Lump Sum Item M-1	Mobilization including temporary signage, low profile barriers, security preparations, etc. Per Lump Sum
2	11,734 Square Yard Item P-101	Pavement Removal Per Square Yard
3	1,249 Linear Foot Item P-101	Pavement Saw Cutting, Full Depth Per Linear Foot
4	12,208 Cubic Yard Item P-152	Unclassified Excavation Per Cubic Yard
5	6,290 Ton Item P-154	Breaker Run Subbase Per Ton
6	4,230 Ton Item P-209	Crushed Aggregate Base Course Per Ton
7	2,659 Cubic Yard Item P-306	Econocrete Base Course, 6 inch Per Cubic Yard
8	9,793 Square Yard Item P-501	Portland Cement Concrete Pavement, 18 inch Per Square Yard
9	131 Ton Item P-401	Hot Mix Asphalt - P401 Per Ton
10	1,013 Ton Item P-403	Hot Mix Asphalt - P403 Per Ton
11	505 Gallon Item P-603	Asphalt Tack Coat Per Gallon
12	10,376 Linear Foot Item P-605	Concrete Joint Filler Per Linear Foot
13	1,120 Square Foot Item P-620	Remove Taxiway Painting Per Square Foot
14	3,824 Square Foot Item P-620	Taxiway Marking, Yellow & White, with type III glass beads Per Square Foot
15	5,994 Square Foot Item P-620	Taxiway Marking, Black Per Square Foot

16	198 Square Foot Item P-620	Preformed Thermoplastic Marking Sign (Includes Reflective Beads) Per Square Foot
17	10,771 Square Yard	BX 1200 Type Geogrid Per Square Yard
18	11,282 Square Yard	Geotextile Type SR Per Square Yard
19	2,089 Square Yard	Geotextile Type DF Per Square Yard
20	3 Each Item P-156	Inlet Protection Type A Per Each
21	1,265 Linear Foot Item P-156	Silt Fence Per Linear Foot
22	428 Linear Foot Item P-	Storm Sewer Removal Per Linear Foot
23	428 Linear Foot Item P-701	Storm Sewer, 18 Inch, Class V RCP Per Linear Foot
24	180 Linear Foot Item P-701	Storm Sewer, 12 Inch, Class IV RCP Per Linear Foot
25	2,329 Linear Foot Item D-705	Underdrain, 6 Inch Corrugated, Perforated. Including porous backfill, filter fabric & cleanouts. Per Linear Foot
26	1 Each Item D751	Storm Sewer Catch Basin (CB1) Per Each
27	1 Lump Sum Item D751	Stormwater Structure Modification at Parking Structure Pond (Pond 13A) Per Lump Sum
28	1 Lump Sum Item D751	Stormwater Structure Modification at Structure 400A Per Lump Sum
29	2,400 Linear Foot Item L-108	Lighting Cable, 5KVA, No. 8 In Conduit or Duct Per Linear Foot
30	1,596 Linear Foot Item L-108	Temporary Cable, 5KVA, No. 8 in Conduit or Duct Per Linear Foot

31	2,400 Linear Foot Item L-108	No. 6 Bare Copper Counterpoise Wire Per Linear Foot
32	54 Each Item L-108	Ground Rods Per Each
33	2,400 Linear Foot Item L-108	Lighting Cable removed in conduit or duct Per Linear Foot
34	2,400 Linear Foot Item L-110	PVC Electrical Conduit, 2 Inch, Sch. 40 Per Linear Foot
35	5 Each Item L-110	Coring into manhole Per Each
36	2 Each	Runway Guard Light Salvage and Reinstall Per Each
37	21 Each Item L-125A	Elevated Taxiway Light Removal. Salvage light and transformer for reuse. Remove, base, stainless cover with neoprene gasket, plastic transformer stand, grounding, etc. Per Each
38	21 Each Item L-125A	L-861T Elevated (LED) Taxiway Lights, Salvage Reuse Assembly (Reuse salvaged light and transformer. Install new, base, stainless cover with neoprene gasket, plastic transformer stand, grounding, joint sealant etc.). Per Each
39	6 Each Item L-125A	L-861T Elevated (LED) Taxiway Lights, Standard Assembly (Entire taxiway lighting assembly including new light, transformer, base, stainless cover with neoprene gasket, plastic transformer stand, grounding, joint sealant, etc.). Per Each
40	1 Each Item L-125A	New Taxi Guidance Sign per details 1/E350 & 6/E350. Includes entire sign assembly (sign, concrete base, grounding, wiring, transformer, etc.) Per Each
41	1 Each Item P-610	New Taxi Guidance Sign concrete base, per each sign Per Each
42	833 Cubic Yard Item T-905	2" Topsoil Per Cubic Yard
43	15,000 Square Yard Item T-901	Seeding (Endophyte Enhanced) and fertilizer. Per Square Yard
44	15,000 Square Yard T-908	Hydro Mulch Per Square Yard

ALTERNATIVE BID ITEMS - MILL AND OVERLAY

45	653 Ton Item P-401	Hot Mix Asphalt - P401 Per Ton
46	288 Gallon Item P-603	Asphalt Tack Coat Per Gallon
47	2,880 Square Yard Item P-101	Cold Milling Per Square Yard

1
C101
QUANTITIES
SCALE: N/A

GENERAL MITCHELL INTERNATIONAL AIRPORT
GMIA TAXIWAY F PAVEMENT RECONSTRUCTION
5300 S. HOWELL AVE., MILWAUKEE, WI, 53207

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AIRPORT ENGINEERING, 5300 S. HOWELL AVE., MILWAUKEE, WI 53207

REVISIONS:
08/11/2016

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8/01/2016
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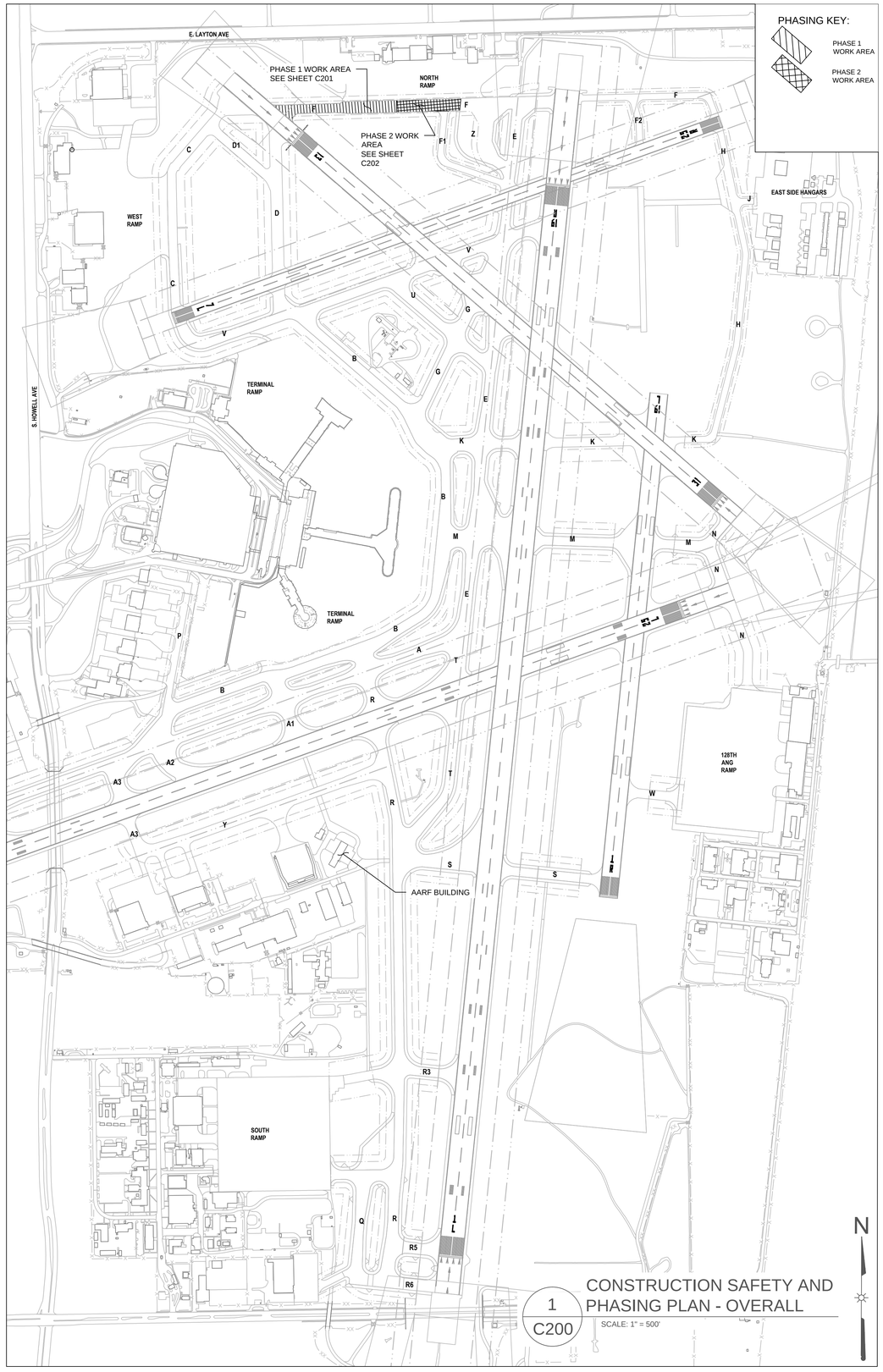
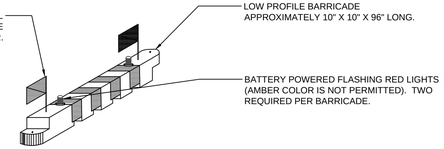
A195-16008
SITE NO:
290
BUILDING NO:
N/A

PROJECT QUANTITIES
C101



1 C200 CONSTRUCTION SAFETY AND PHASING PLAN - OVERALL

SCALE: 1" = 500'



NOTES:
1. BARRICADES SHALL CONFORM TO FAA AC 150/5370-2 (CURRENT EDITION)
2. BARRICADES TO BE PLACED ALONG THE LIMITS OF THE PHASES OF WORK, AS SHOWN IN THESE PLANS OR AS DIRECTED BY GMIA OPERATIONS, TO DELINEATE PAVEMENTS CLOSED TO AIRCRAFT.
3. BARRICADES SHALL BE COLLAPSIBLE AND HIGHLY REFLECTIVE AND CONSIST OF DIAGONAL ALTERNATING ORANGE AND WHITE STRIPES.
4. BARRICADES SHALL BE NO MORE THAN 18" ABOVE THE GROUND, EXCLUSIVE OF LIGHTS AND FLAGS.
5. BARRICADES SHALL BE WEIGHTED AND DESIGNED SUCH THAT IT IS NOT SUBJECT TO MOVEMENT FROM PROP WASH, JET BLAST, WING VORTEX, OR OTHER SURFACE WIND CURRENTS.
4. BARRICADES MUST BE SUPPLEMENTED WITH FLASHING RED LIGHTS (AMBER IS NOT PERMITTED).
5. BARRICADES MUST BE SUPPLEMENTED WITH ALTERNATING ORANGE AND WHITE FLAGS AT LEAST 20" X 20" SQUARE.
6. FLAGS AND LIGHTS MUST BE SECURELY FASTENED.
7. ALL BARRIERS SHALL BE CHECKED FOR SIGNS OF DAMAGE OR WEAR ON A REGULAR BASIS AND REPLACED AS NEEDED.
8. ALL LIGHT FIXTURES SHALL BE VERIFIED OPERATIONAL BY CONTRACTOR DAILY.
9. CONTRACTOR MUST HAVE AN INDIVIDUAL ON CALL 24-HOURS A DAY FOR EMERGENCY MAINTENANCE OF BARRICADES AND THEIR LIGHTING.
10. COST OF INSTALLATION AND MAINTENANCE OF BARRIERS SHALL BE INCLUDED IN MOBILIZATION.

2 C200 LOW PROFILE BARRICADE

SCALE: NTS

TO OBTAIN LOCATION OF
PARTICIPANTS' UNDERGROUND FACILITIES
BEFORE YOU DIG

CALL DIGGERS HOTLINE
800–242–8511

TOLL FREE 1-800-242-8511
TELEFAX 414-259-0947
WWW.DIGGERSHOTLINE.COM

WISCONSIN STATUTE 182.0175 (1974)
REQUIRES MINIMUM OF 3 WORKING DAYS
NOTICE BEFORE YOU EXCAVATE

NOTES:
1. NOTE GMIA IS A MEMBER OF DIGGERS HOTLINE AND WILL BE NOTIFIED WHEN CONTRACTOR CONTACTS DIGGERS HOTLINE.
2. GMIA WILL NOTIFY FAA WHEN IT RECEIVES NOTICE FROM DIGGERS HOTLINE

3 C200 DIGGERS HOTLINE

SCALE: NTS

SIGN 1	SIGN 2	SIGN 3	SIGN 4
STOP	STOP	HAUL ROUTE →	DO NOT STOP BETWEEN SIGNS
CONSTRUCTION ENTRANCE	YIELD TO AIRCRAFT		
CHECK IN WITH SECURITY GUARD AT GATE	DO NOT PROCEED IF BEACON IS LIT ON DESIGNATED RAMP OBSERVER TRUCK		

NOTES:
1. SIGNS 1 AND 2 SHALL INCLUDE A STANDARD DOT STOP SIGN (RED SIGN WITH WHITE LETTERS) AND A WHITE RECTANGULAR SIGN WITH BLACK LETTERING BELOW.
2. SIGN 3 SHALL BE RECTANGULAR WHITE SIGN WITH BLACK LETTERING.
3. ALL SIGNS SHALL BE REFLECTIVE.
4. ALL SIGNS SHALL MEET STANDARD WISDOT LETTERING SIZE.
5. ALL SIGNS SHALL MEET STANDARD DOT SPECIFICATIONS FOR TEMPORARY CONSTRUCTION SIGNAGE.
6. WORDING SHALL BE REVIEWED AND APPROVED BY GMIA PRIOR TO FABRICATION.
7. ALL SIGNS SHALL BE MOUNTED ON POSTS OR 'A-FRAME' CONSTRUCTION BARRICADES.
8. ALL SIGNS SHALL BE REMOVED WHEN THE HAUL ROUTE IS NOT OPEN TO CONSTRUCTION AND PLACED IN THE STAGING AREAS.
9. ALL SIGNS ARE TO BE LEFT WITH GMIA AT END OF PROJECT.

4 C200 HAUL ROUTE SIGNS

SCALE: NTS

GENERAL NOTES:
1. THIS PROJECT INVOLVES CONSTRUCTION ON AN AIRFIELD WITH ADJACENT ACTIVE RUNWAYS, TAXIWAYS, AND APRONS. CONTINUOUS COMMUNICATION AND COORDINATION WITH GMIA OPERATIONS AND GMIA ENGINEERING IS MANDATORY. ALL OPEN RUNWAY, TAXIWAY AND APRON PAVEMENTS ADJACENT TO THE CONSTRUCTION SITE, HAUL ROUTES, AND STAGING AREAS MUST BE MAINTAINED AND CLEAR OF PERSONNEL, EQUIPMENT, MATERIALS, AND DEBRIS AT ALL TIMES.
2. ACCESS TO THE PROJECT SHALL BE VIA THE GATES AND ROUTES SHOWN. CONTRACTOR SHALL STUDY THESE ROUTES, AND VERIFY THEIR ABILITY TO WITHSTAND THE REQUIRED CONSTRUCTION TRAFFIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY AREA DAMAGED BY CONSTRUCTION TRAFFIC.
3. CONTRACTOR SHALL KEEP ALL CONSTRUCTION AREAS, HAUL ROUTES, AND ANY STAGING AREAS FREE OF DUST, DIRT, GRAVEL, MUD, OR DEBRIS AND CORRECT ANY CONDITIONS WHICH WOULD CAUSE HAZARDS, UNSIGHTLY APPEARANCES, OR NUISANCE TO THE SATISFACTION OF GMIA OPERATIONS AND GMIA ENGINEERING FOR THE DURATION OF THE PROJECT. CONTRACTOR SHALL WATER HAUL ROUTE AND CONSTRUCTION AREA AS REQUIRED TO CONTROL DUST. REFER TO THE SPECIFICATIONS AND CSPP FOR MORE INFORMATION.
4. BARRICADES SHALL BE PLACED AS SHOWN ON PLAN AND SHALL CONFORM TO FAA AC 150/5370-2 (CURRENT EDITION). BARRICADES SHALL BE SET CONTINUOUSLY INTERLOCKED OR WITH GAPS ACCORDING TO THE INSTRUCTION OF GMIA OPERATIONS. BARRICADES SHALL BE PLACED ALONG THE LIMITS OF EACH PROJECT SITE AS WORK IS BEING CARRIED OUT. THE CONTRACTOR SHALL PROVIDE ADDITIONAL BARRICADES FOR TAXIWAY OR RUNWAY CLOSURES DURING SUCH TIME THAT THE RESPECTIVE PAVEMENTS ARE CLOSED. THERE SHALL BE AN ADEQUATE NUMBER OF BARRICADES TO PROVIDE POSITIVE AND CLEAR INDICATIONS THAT THE SUBJECT PAVEMENT IS CLOSED. SEE SPECIAL PROVISIONS FOR ADDITIONAL DETAIL AND RESTRICTIONS.
5. CONTRACTOR SHALL MAKE THEMSELVES AWARE OF ALL EXISTING UTILITIES EXTENDING INTO AND THROUGH THE CONSTRUCTION AREA, HAUL ROUTES, AND ANY STAGING AREAS. UTILITIES SHALL BE PROTECTED FOR THE DURATION OF THE PROJECT.
6. AVAILABILITY OF RUNWAY AND TAXIWAY CLOSURES IS SUBJECT TO CHANGE BASED ON WEATHER, SAFETY, AIRCRAFT DIVERSIONS FROM OTHER AIRPORTS, AND OTHER TECHNICAL MATTERS. CONTRACTOR TO REFERENCE SPECIAL PROVISIONS CONCERNING WORK AREA AVAILABILITY.
7. SEE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS REGARDING THE USE OF ANY DESIGNATED CONSTRUCTION STAGING AREAS. UPON COMPLETION OF THE PROJECT ANY STAGING AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION.
8. SEE SHEET C200 AND CONSTRUCTION SAFETY AND PHASING PLAN FOR ADDITIONAL NOTES, DETAILS, AND PROVISIONS.
9. CONTRACTOR MUST CALL DIGGERS HOTLINE PRIOR TO ALL CONSTRUCTION. SEE C200.
10. GMIA ELECTRICIANS TO TURN OFF AND/OR COVER RUNWAY OR TAXIWAY LIGHTS WITHIN THE CLOSED AREAS.
11. SEE CSPP FOR NAVAID INFORMATION AND NOTIFICATION REQUIREMENTS.

GENERAL MITCHELL INTERNATIONAL AIRPORT
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633 W. WISCONSIN AVE, SUITE 1000; MILWAUKEE, WI 53203
AIRPORT ENGINEERING, 5300 S. HOWELL AVE; MILWAUKEE, WI 53207

REVISIONS:
08/11/2016

DATE: 8/01/2016
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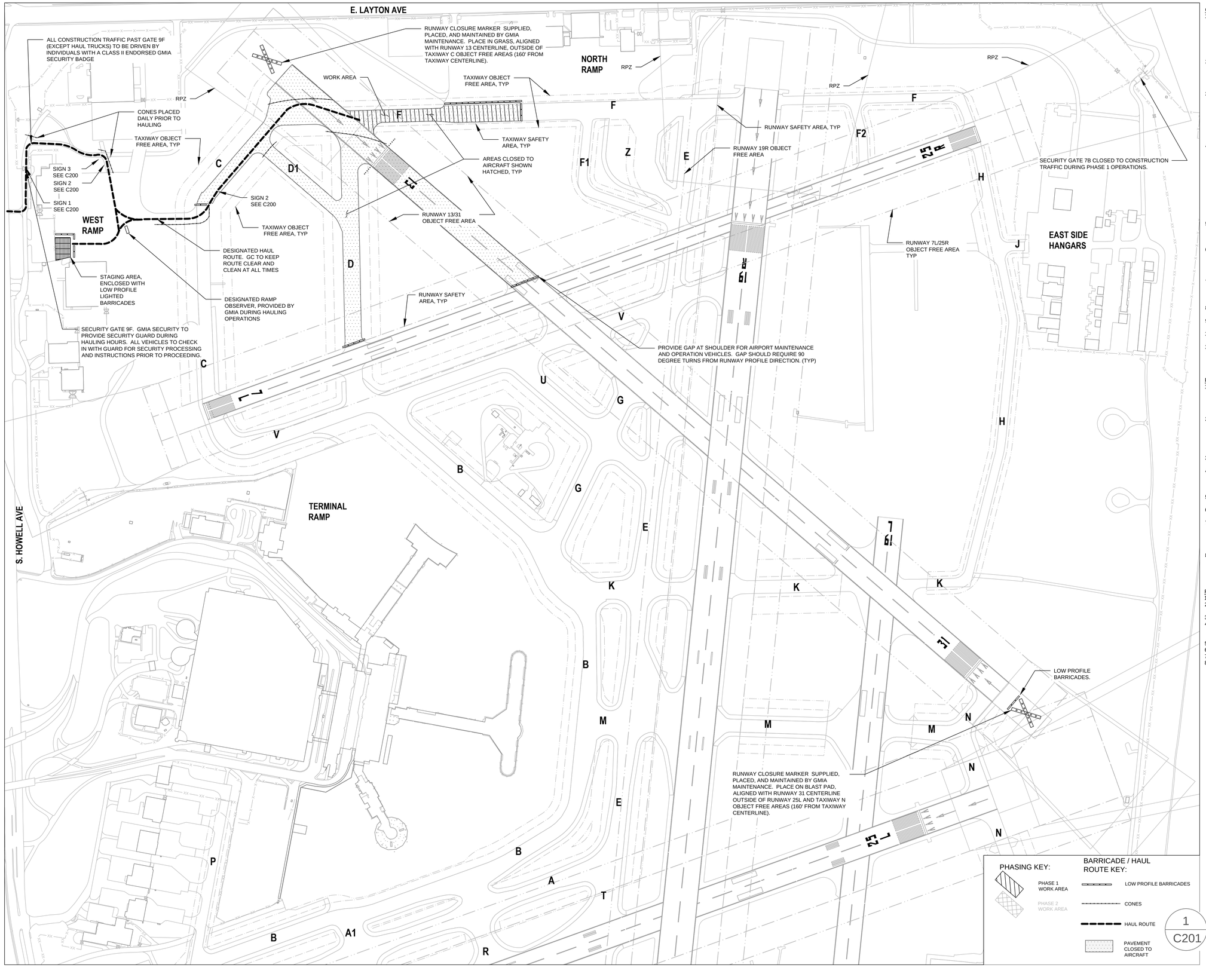
SITE NO: 290
BUILDING NO: N/A

CONSTRUCTION SAFETY AND PHASING PLAN - OVERALL
C200



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4. BARRICADES SHALL BE PLACED AS SHOWN ON PLAN AND SHALL CONFORM TO FAA AC 150/5370-2 (CURRENT EDITION). BARRICADES SHALL BE SET CONTINUOUSLY INTERLOCKED OR WITH GAPS ACCORDING TO THE INSTRUCTION OF GMIA OPERATIONS. BARRICADES SHALL BE PLACED ALONG THE LIMITS OF EACH PROJECT SITE AS WORK IS BEING CARRIED OUT. THE CONTRACTOR SHALL PROVIDE ADDITIONAL BARRICADES FOR TAXIWAY OR RUNWAY CLOSURES DURING SUCH TIME THAT THE RESPECTIVE PAVEMENTS ARE CLOSED. THERE SHALL BE AN ADEQUATE NUMBER OF BARRICADES TO PROVIDE POSITIVE AND CLEAR INDICATIONS THAT THE SUBJECT PAVEMENT IS CLOSED. SEE SPECIAL PROVISIONS FOR ADDITIONAL DETAIL AND RESTRICTIONS.
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8. SEE SHEET C200 AND CONSTRUCTION SAFETY AND PHASING PLAN FOR ADDITIONAL NOTES, DETAILS, AND PROVISIONS.
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PHASE 1 NOTES:

1. THE WEST RAMP WILL BE IN USE BY AIRCRAFT DURING CONSTRUCTION. GENERAL CONTRACTOR (GC) TO MAINTAIN A CLEAN AND CLEAR HAUL ROUTE AT ALL TIMES. ALL CONSTRUCTION VEHICLES TO YIELD TO AIRCRAFT TAXIING IN RAMP AREA (THIS IS OUTSIDE OF MOVEMENT AREA).
2. A DESIGNATED RAMP OBSERVER (DRO) SUPPLIED BY GMIA WILL BE LOCATED AT THE WEST RAMP TO DIRECT HAUL TRUCKS THROUGH THE RAMP (NON-MOVEMENT AREA). THE DRO WILL HAVE A VEHICLE WITH A BLUE BEACON. THE BLUE BEACON WILL BE ACTIVATED WHEN THE HAUL TRUCKS ARE TO STOP OUTSIDE THE RAMP AREA TO ALLOW FOR AIRCRAFT PASSING.
3. CONSTRUCTION EQUIPMENT OPERATORS MUST HAVE CURRENT GMIA ISSUED BADGES WITH CLASS II DRIVING ENDORSEMENTS.
4. CONSTRUCTION LABORERS NOT OPERATING EQUIPMENT MUST HAVE CURRENT GMIA ISSUED BADGES OR BE ESCORTED BY OTHER CONSTRUCTION STAFF WITH BADGES. GMIA WILL NOT PROVIDE ESCORT TO CONSTRUCTION PERSONNEL.
5. WORK IS TO OCCUR MON - FRI 7:00 - 17:00. OTHER HOURS MAY BE AVAILABLE WITH PRIOR APPROVAL AT GMIA DISCRETION.
6. CONSTRUCTION IS EXPECTED TO OCCUR APPROXIMATELY JULY 1, 2016 THROUGH SEPTEMBER 11, 2016.
7. HAUL TRUCKS WILL NEED TO REGISTER WITH SECURITY GUARD AT GATE. HAUL TRUCKS WILL BE OBSERVED BY GMIA SUPPLIED OBSERVER FROM GATE TO CLOSED AREA. ONCE IN THE CLOSED CONSTRUCTION AREA, THE HAUL TRUCK IS UNDER THE ESCORT OF THE CONTRACTOR.
8. CONTRACTOR TO PROVIDE CONTINUOUS POWER TO EXISTING TAXIWAY LIGHTS LOCATED IN PHASE 2 AND TO THE REMAINDER OF THE TAXIWAY F CIRCUIT BY PROVIDING A POWER JUMP.

PHASE 1 IMPACT TO AIRPORT OPERATIONS:

1. RUNWAY 13-31 WILL BE CLOSED TO TAKEOFF / LANDING OPERATIONS.
2. RUNWAY 13-31 WILL BE CLOSED TO TAXIING BETWEEN RUNWAY 7L-25R AND TAXIWAY C.
3. 13-31 RUNWAY LIGHTS AND PAPI TURNED OFF.
4. RUNWAY LIGHTS FOR PORTION OF 13-31 REMAINING OPEN TO TAXIING DURING PHASE 1 TO BE SWITCHED TO BLUE LIGHTS WHILE RUNWAY IS CLOSED. COORDINATE WITH ACSI.
5. TAXIWAY D1 WILL BE CLOSED.
6. TAXIWAY D WILL BE CLOSED.
7. TAXIWAY C WILL BE CLOSED BETWEEN WEST RAMP AND TAXIWAY F.
8. TAXIWAY F WILL BE CLOSED BETWEEN TAXIWAY C AND NORTH RAMP.

1
C201

CONSTRUCTION SAFETY AND PHASING PLAN - PHASE 1

SCALE: 1" = 250'

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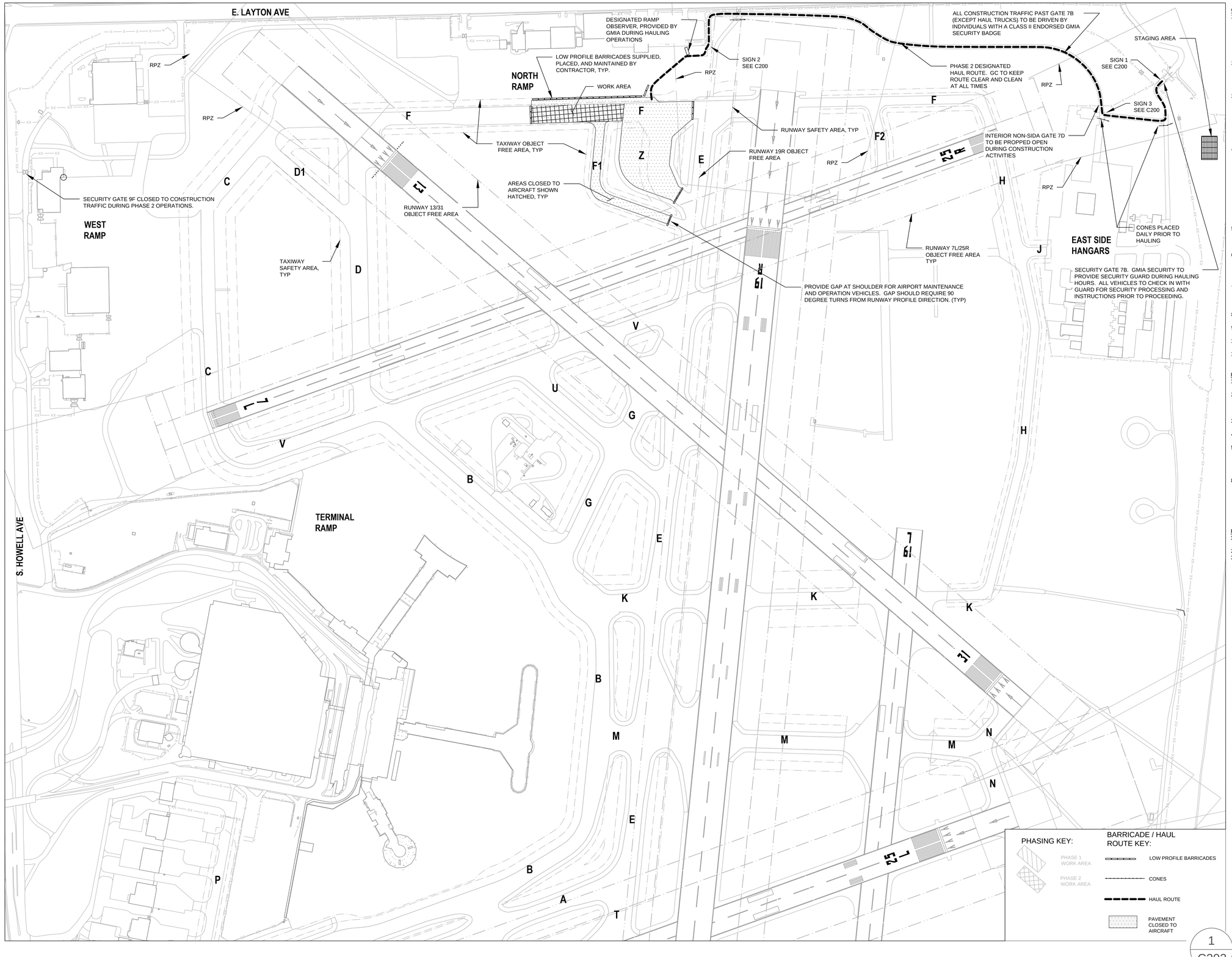
CONSTRUCTION SAFETY AND PHASING PLAN - PHASE 1

C201



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4. BARRICADES SHALL BE PLACED AS SHOWN ON PLAN AND SHALL CONFORM TO FAA AC 150/5370-2 (CURRENT EDITION). BARRICADES SHALL BE SET CONTINUOUSLY INTERLOCKED OR WITH GAPS ACCORDING TO THE INSTRUCTION OF GMIA OPERATIONS. BARRICADES SHALL BE PLACED ALONG THE LIMITS OF EACH PROJECT SITE AS WORK IS BEING CARRIED OUT. THE CONTRACTOR SHALL PROVIDE ADDITIONAL BARRICADES FOR TAXIWAY OR RUNWAY CLOSURES DURING SUCH TIME THAT THE RESPECTIVE PAVEMENTS ARE CLOSED. THERE SHALL BE AN ADEQUATE NUMBER OF BARRICADES TO PROVIDE POSITIVE AND CLEAR INDICATIONS THAT THE SUBJECT PAVEMENT IS CLOSED. SEE SPECIAL PROVISIONS FOR ADDITIONAL DETAIL AND RESTRICTIONS.
5. CONTRACTOR SHALL MAKE THEMSELVES AWARE OF ALL EXISTING UTILITIES EXTENDING INTO AND THROUGH THE CONSTRUCTION AREA, HAUL ROUTES, AND ANY STAGING AREAS. UTILITIES SHALL BE PROTECTED FOR THE DURATION OF THE PROJECT.
6. AVAILABILITY OF RUNWAY AND TAXIWAY CLOSURES IS SUBJECT TO CHANGE BASED ON WEATHER, SAFETY, AIRCRAFT DIVERSIONS FROM OTHER AIRPORTS, AND OTHER TECHNICAL MATTERS. CONTRACTOR TO REFERENCE SPECIAL PROVISIONS CONCERNING WORK AREA AVAILABILITY.
7. SEE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS REGARDING THE USE OF ANY DESIGNATED CONSTRUCTION STAGING AREAS. UPON COMPLETION OF THE PROJECT ANY STAGING AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION.
8. SEE SHEET C200 AND CONSTRUCTION SAFETY AND PHASING PLAN FOR ADDITIONAL NOTES, DETAILS, AND PROVISIONS.
9. CONTRACTOR MUST CALL DIGGERS HOTLINE PRIOR TO ALL CONSTRUCTION. SEE C200.
10. GMIA ELECTRICIANS TO TURN OFF AND/OR COVER RUNWAY OR TAXIWAY LIGHTS WITHIN THE CLOSED AREAS.
11. SEE CSPP FOR NAVAID INFORMATION AND NOTIFICATION REQUIREMENTS.

PHASE 2 NOTES:

1. CONSTRUCTION EQUIPMENT OPERATORS MUST HAVE CURRENT GMIA ISSUED BADGES WITH CLASS II DRIVING ENDORSEMENTS.
2. CONSTRUCTION LABORERS NOT OPERATING EQUIPMENT MUST HAVE CURRENT GMIA ISSUED BADGES OR BE ESCORTED BY OTHER CONSTRUCTION STAFF WITH BADGES. GMIA WILL NOT PROVIDE ESCORT TO CONSTRUCTION PERSONNEL.
3. WORK IS TO OCCUR MON - FRI 7:00 - 17:00. OTHER HOURS MAY BE AVAILABLE WITH PRIOR APPROVAL AT GMIA DISCRETION.
4. CONSTRUCTION IS EXPECTED TO OCCUR APPROXIMATELY SEPTEMBER 11, 2016 THROUGH NOVEMBER 30, 2016.
5. HAUL TRUCKS WILL NEED TO REGISTER WITH SECURITY GUARD AT GATE. HAUL TRUCKS WILL BE OBSERVED BY GMIA SUPPLIED OBSERVER FROM GATE TO CLOSED AREA. ONCE IN THE CLOSED CONSTRUCTION AREA, THE HAUL TRUCK IS UNDER THE ESCORT OF THE CONTRACTOR.
8. CONTRACTOR TO PROVIDE CONTINUOUS POWER TO NEW TAXIWAY LIGHTS LOCATED IN PHASE 1 AND TO THE REMAINDER OF THE TAXIWAY F CIRCUIT BY PROVIDING A POWER JUMP.

PHASE 2 IMPACT TO AIRPORT OPERATIONS:

1. TAXIWAY F WILL BE CLOSED BETWEEN TAXIWAY E AND MIDDLE OF NORTH RAMP.
2. TAXIWAY Z WILL BE CLOSED.
3. TAXIWAY F1 WILL BE CLOSED.

1
C202

CONSTRUCTION SAFETY AND PHASING PLAN - PHASE 2

SCALE: 1" = 250'

N

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GMIA TAXIWAY F PAVEMENT RECONSTRUCTION
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08/11/2016

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BUILDING NO: N/A

CONSTRUCTION SAFETY AND PHASING PLAN - PHASE 2

C202

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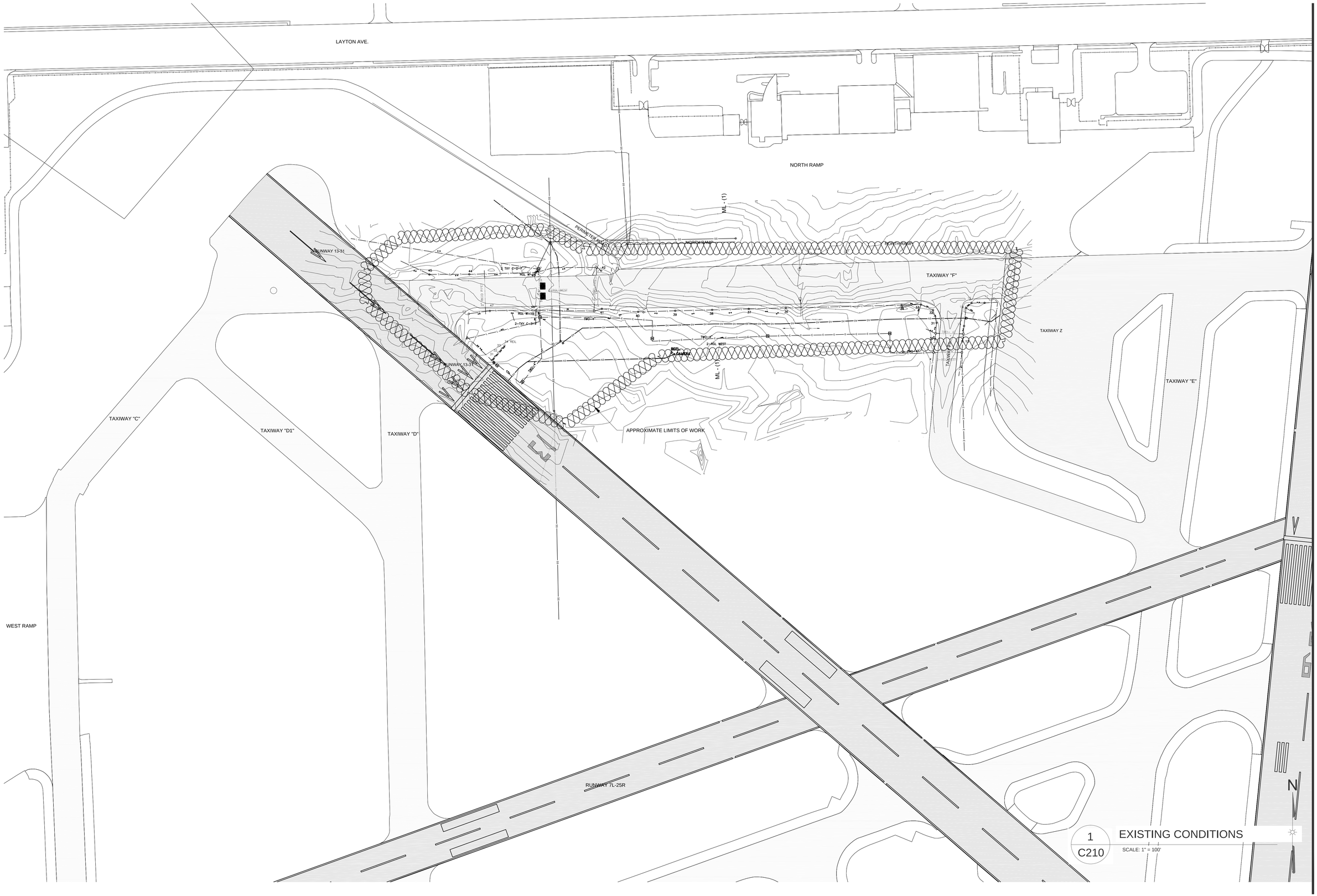

1
C210

EXISTING CONDITIONS

SCALE: 1" = 100'

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A195-16008

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290

BUILDING NO:
N/A

EXISTING CONDITIONS

C210

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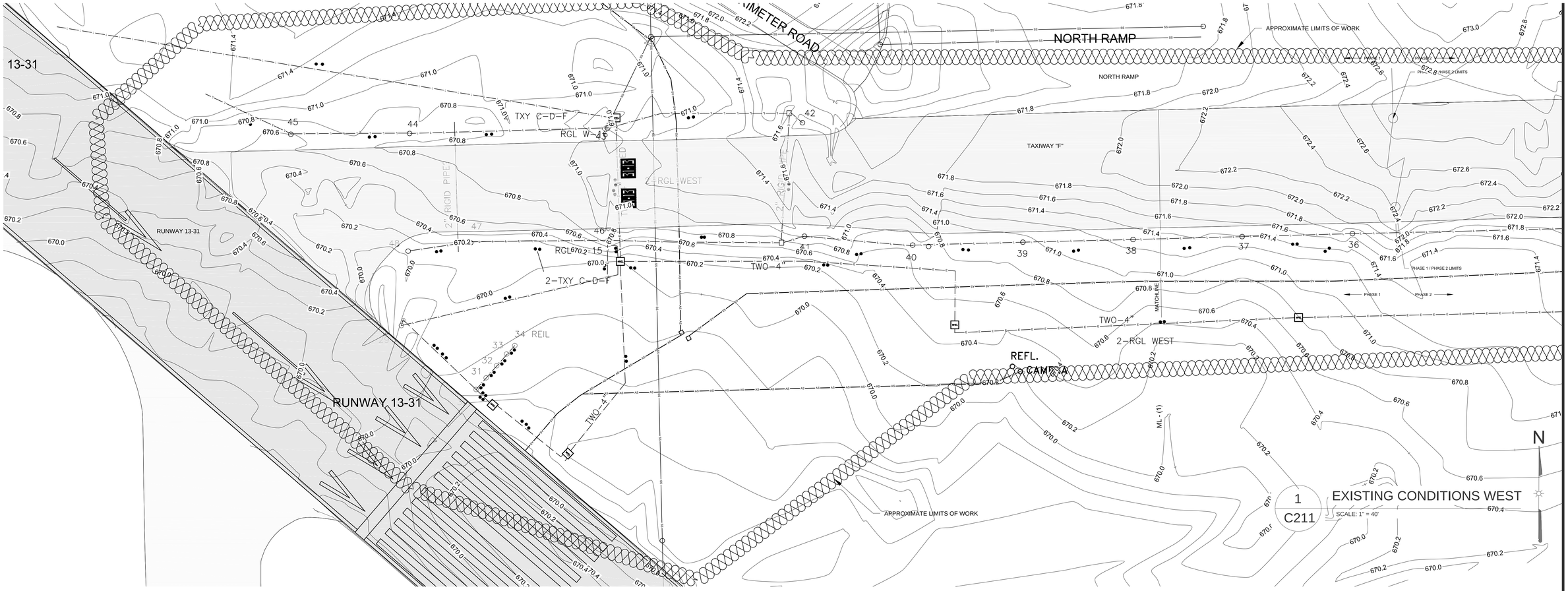
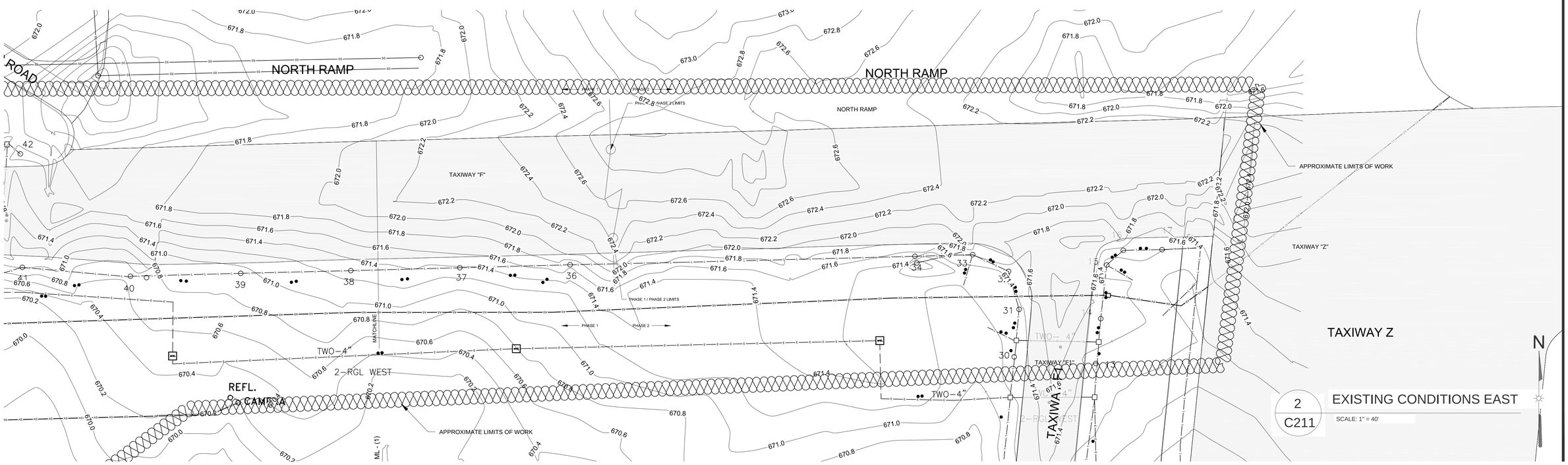


1 C211 EXISTING CONDITIONS WEST

SCALE: 1" = 40'



2 C211 EXISTING CONDITIONS EAST

SCALE: 1" = 40'

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BUILDING NO: N/A

EXISTING CONDITIONS

C211

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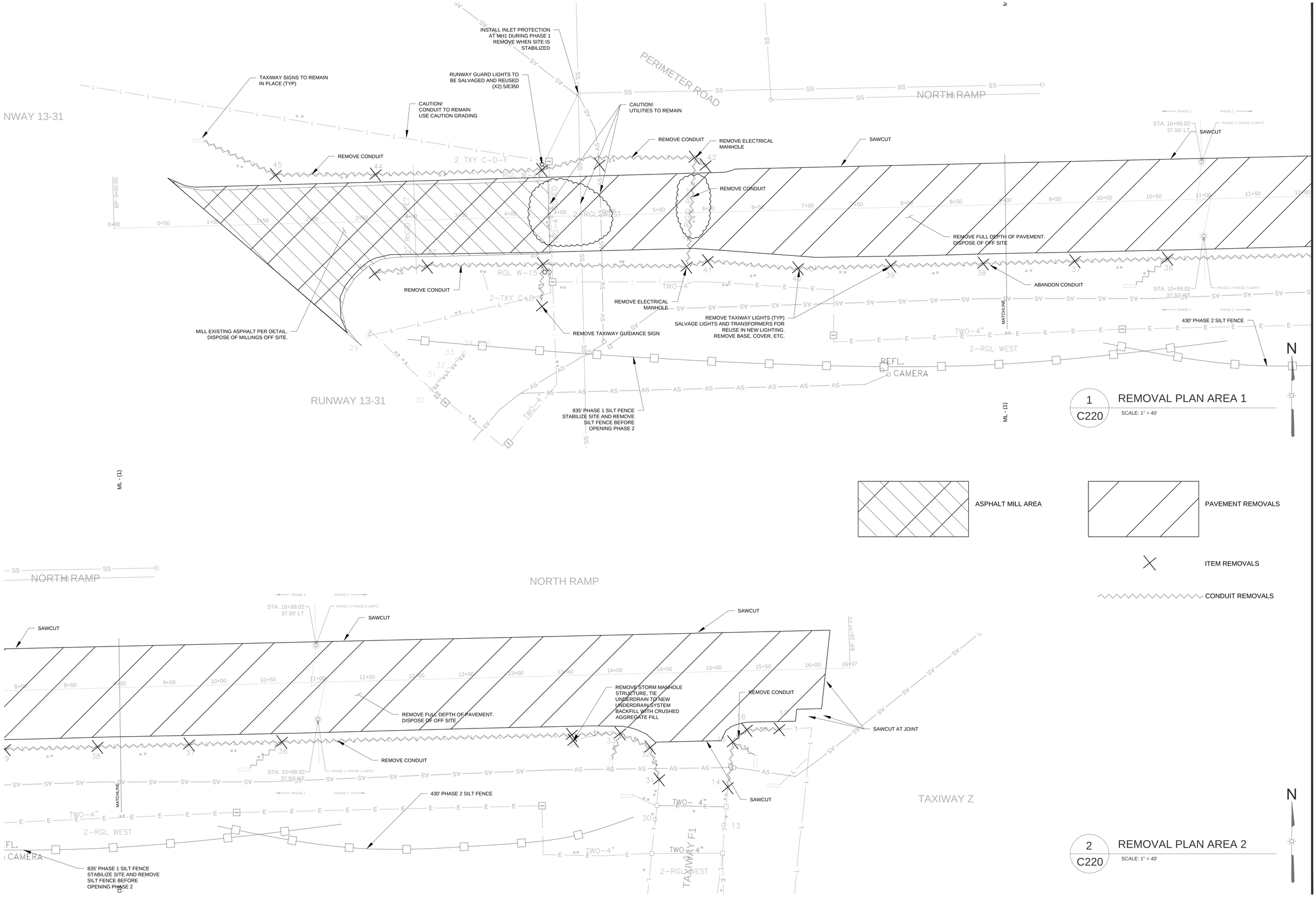

1 / C220 REMOVAL PLAN AREA 1

SCALE: 1" = 40'

2 / C220 REMOVAL PLAN AREA 2

SCALE: 1" = 40'

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REMOVAL PLANS
C220

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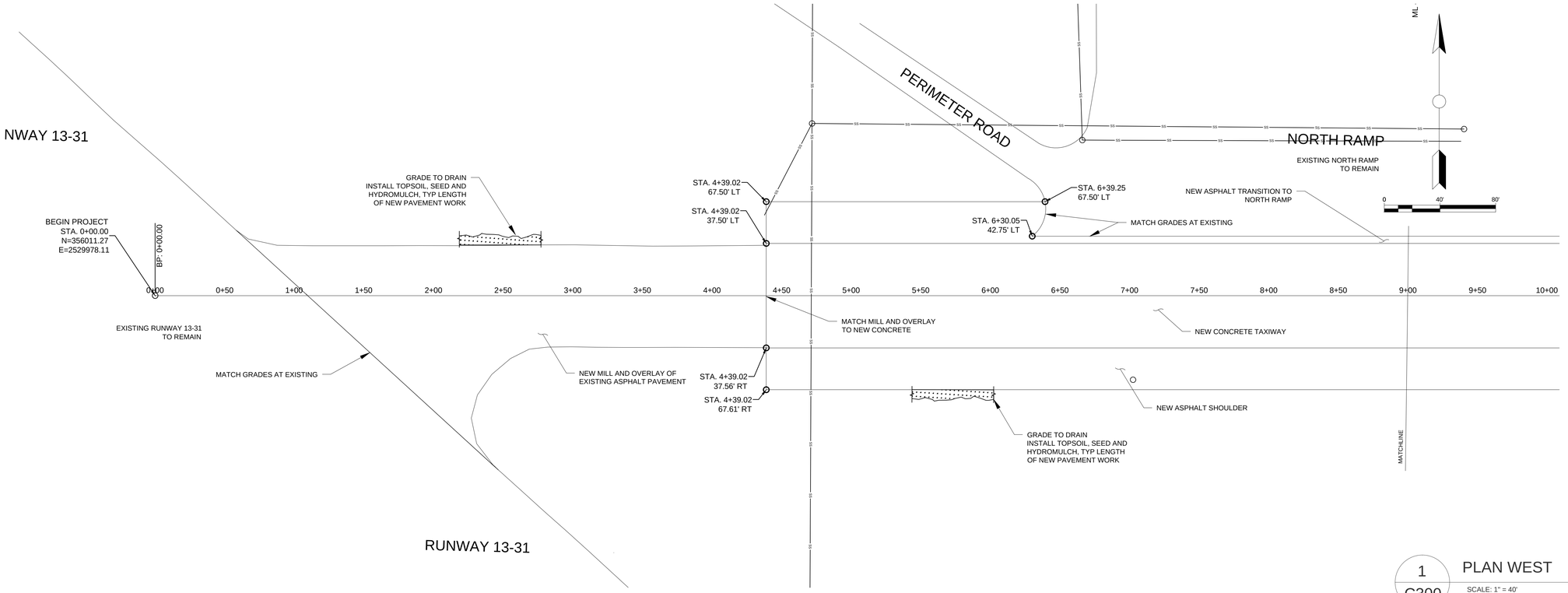
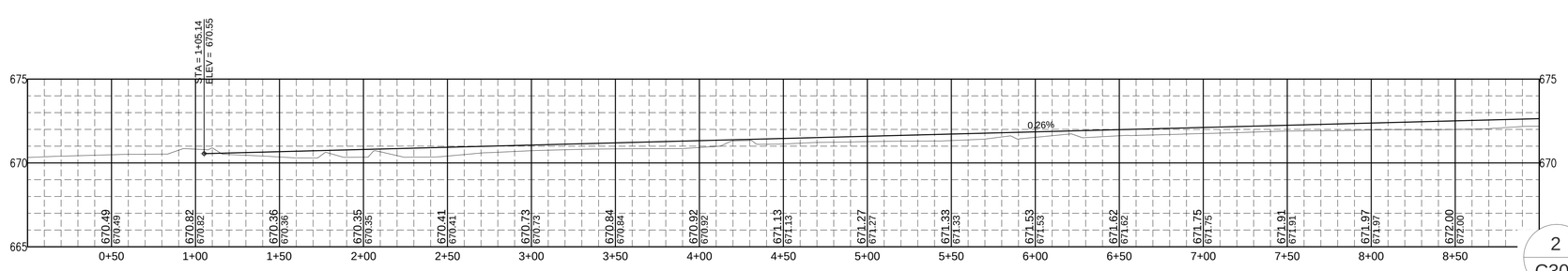


1 C300 PLAN WEST

SCALE: 1" = 40'



2 C300 PROFILE WEST

SCALE: 1" = 40'

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3/19/2007

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BUILDING NO: **N/A**

PLAN AND PROFILE

C300

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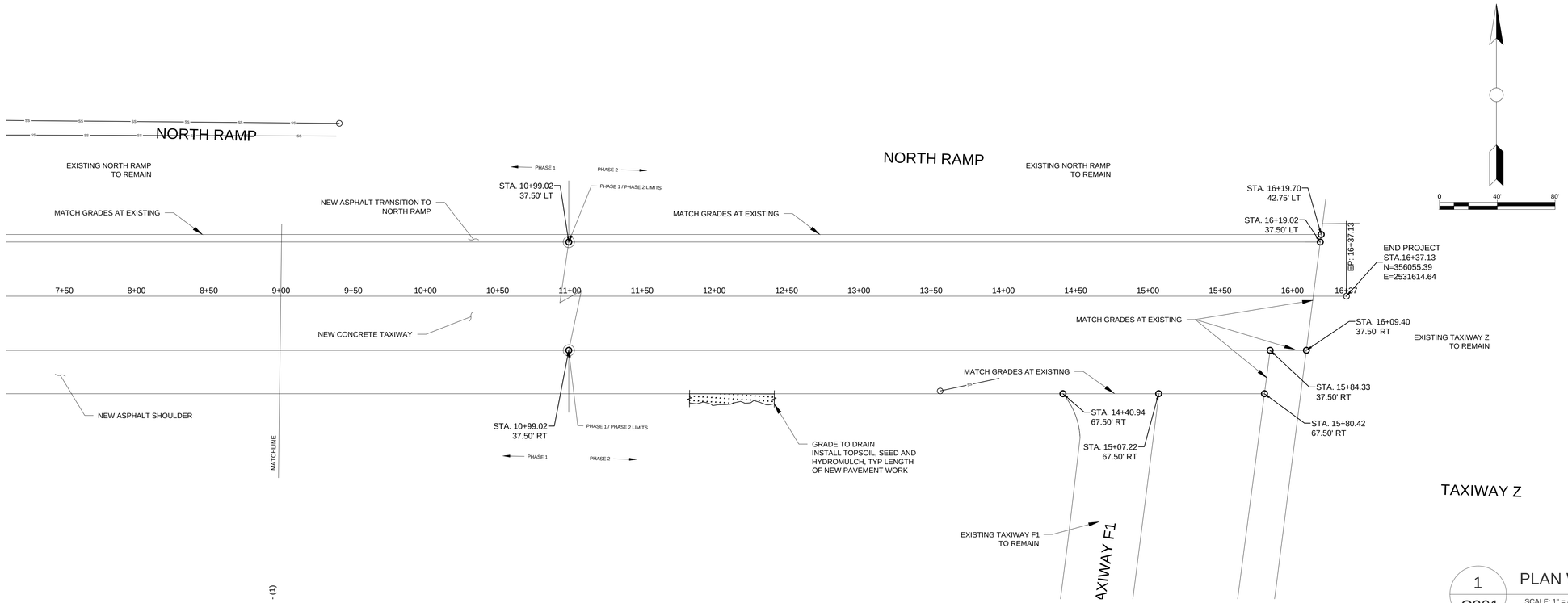
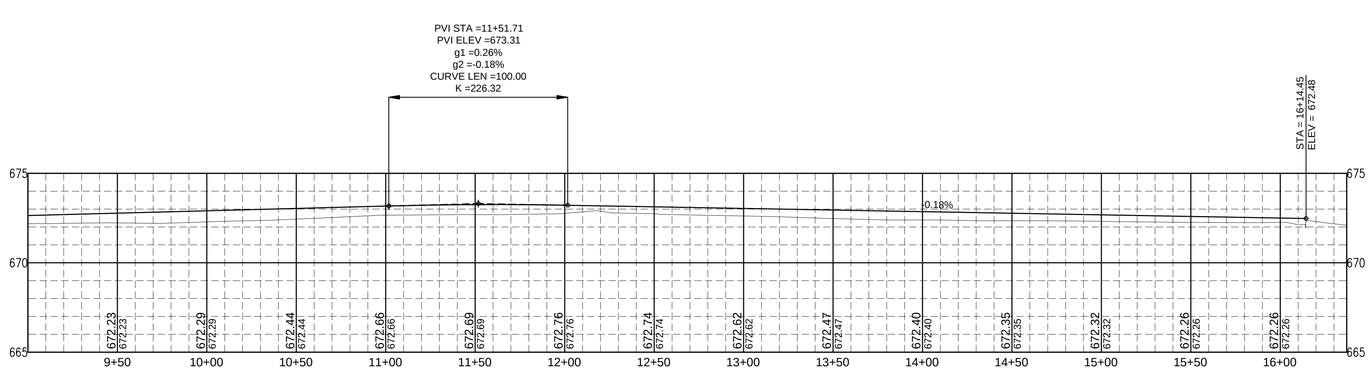


1 C301 PLAN WEST

SCALE: 1" = 40'



2 C301 PROFILE WEST

SCALE: 1" = 40'

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3/19/2007

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290

BUILDING NO:
N/A

PLAN AND PROFILE

C301

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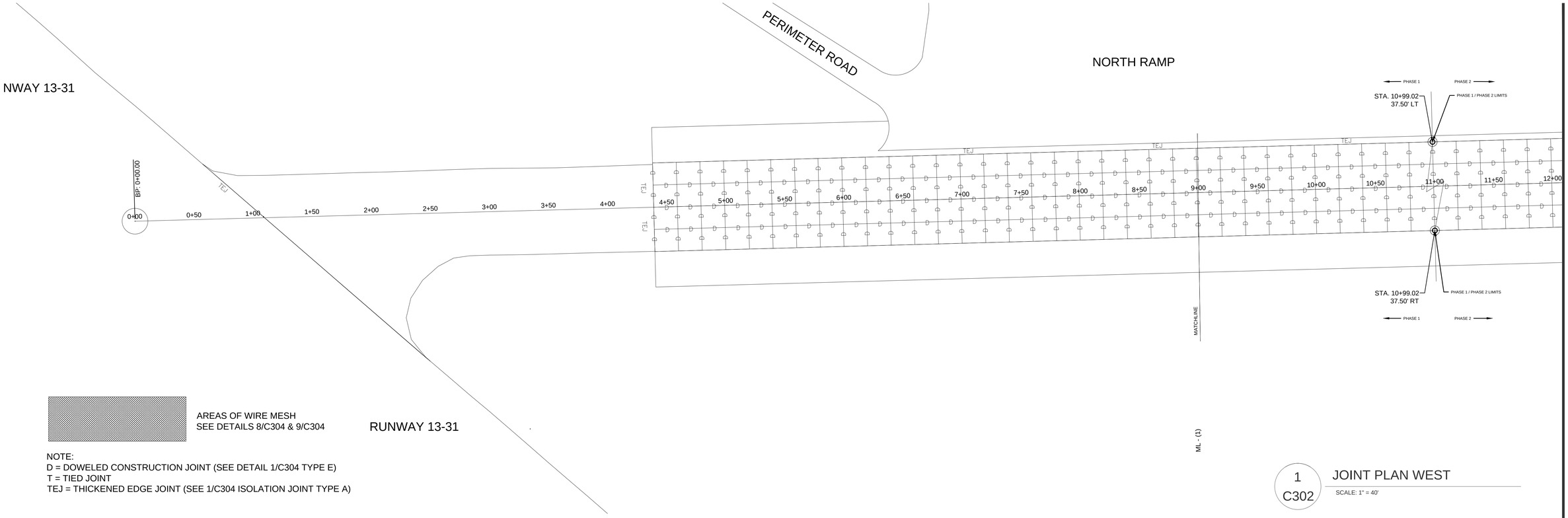


AREAS OF WIRE MESH
SEE DETAILS 8/C304 & 9/C304

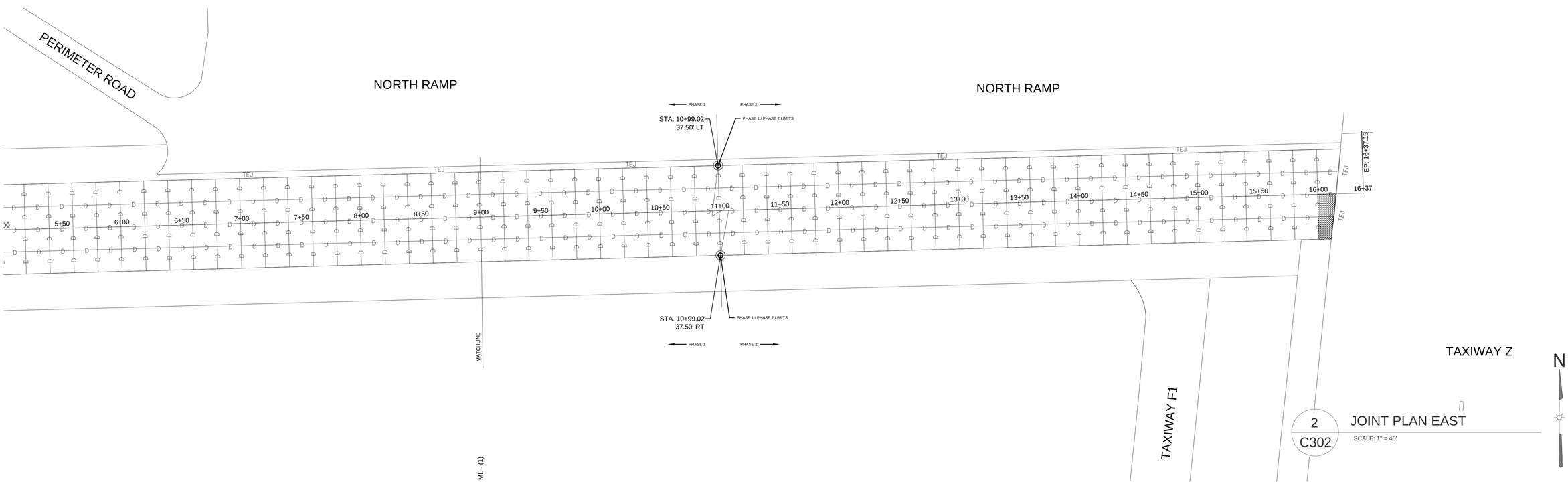
RUNWAY 13-31

NOTE:
D = DOWELED CONSTRUCTION JOINT (SEE DETAIL 1/C304 TYPE E)
T = TIED JOINT
TEJ = THICKENED EDGE JOINT (SEE 1/C304 ISOLATION JOINT TYPE A)

1
C302

JOINT PLAN WEST

SCALE: 1" = 40'



2
C302

JOINT PLAN EAST

SCALE: 1" = 40'

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290
BUILDING NO:
N/A

JOINT PLAN
C302

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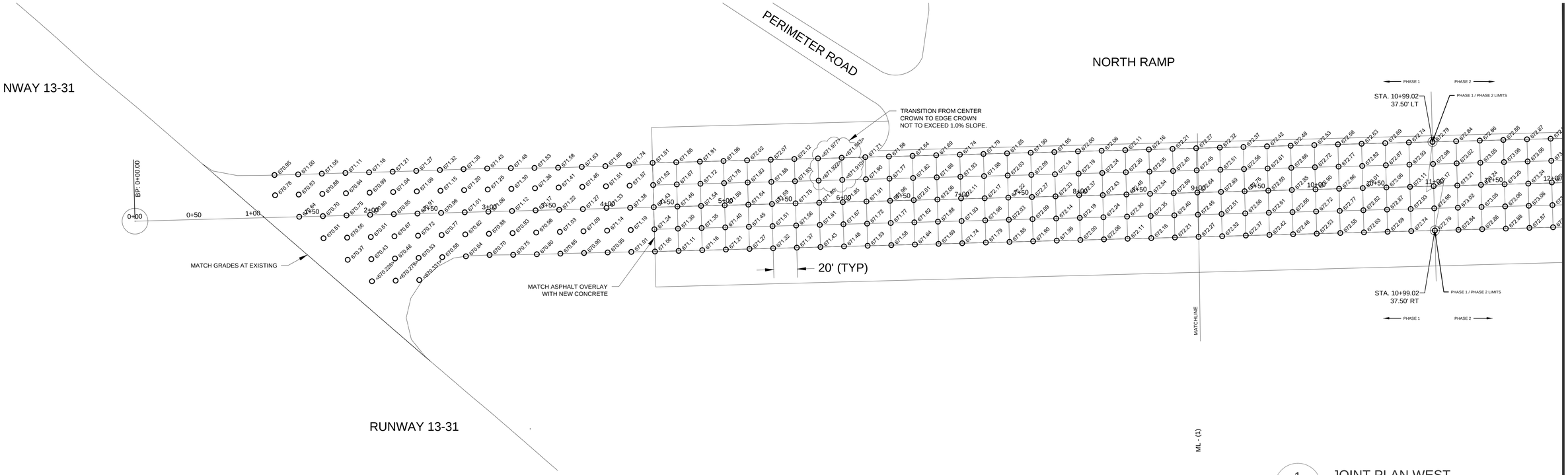
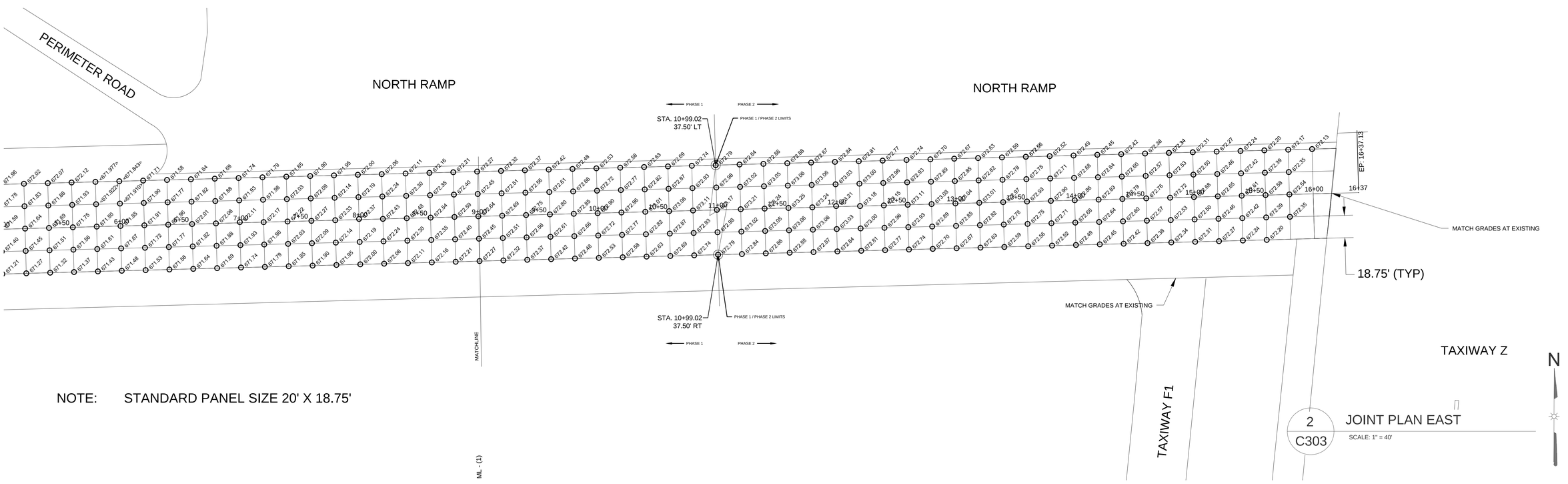


1
C303

JOINT PLAN WEST

SCALE: 1" = 40'



NOTE: STANDARD PANEL SIZE 20' X 18.75'

2
C303

JOINT PLAN EAST

SCALE: 1" = 40'

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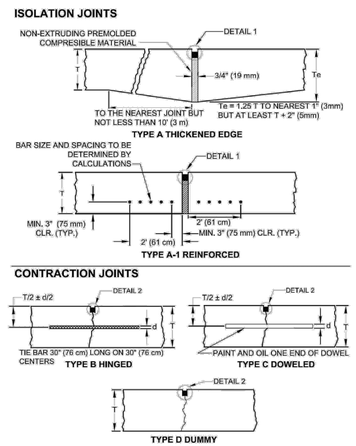
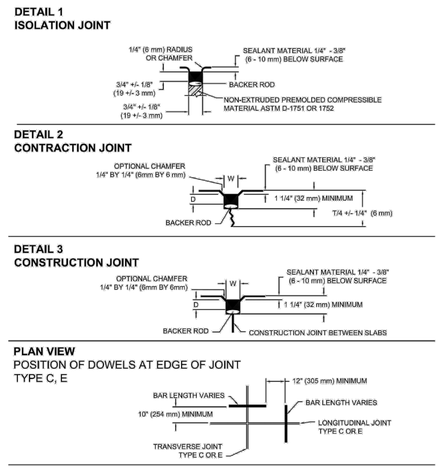
JOINT PLAN
C303



NOTES:
1. SHADED AREA IS JOINT SEALANT.
2. GROOVE MUST BE FORMED BY SAWING.

FIGURE 3-8. RIGID PAVEMENT JOINT TYPES AND DETAILS

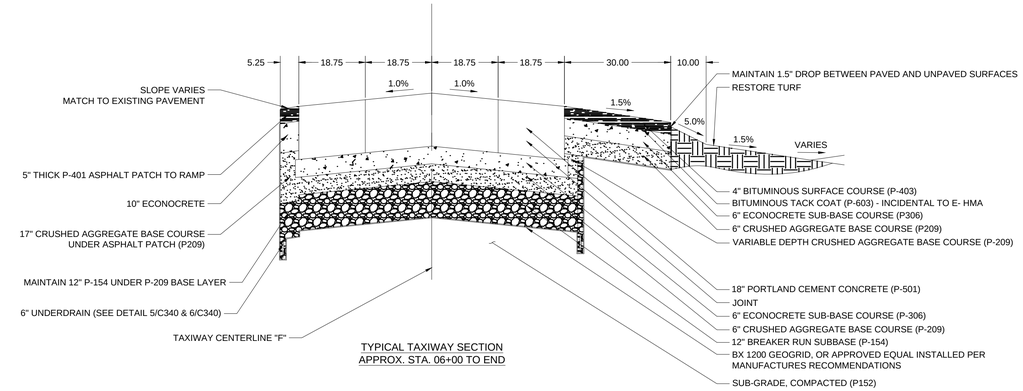
1 / C340 FAA DETAILS



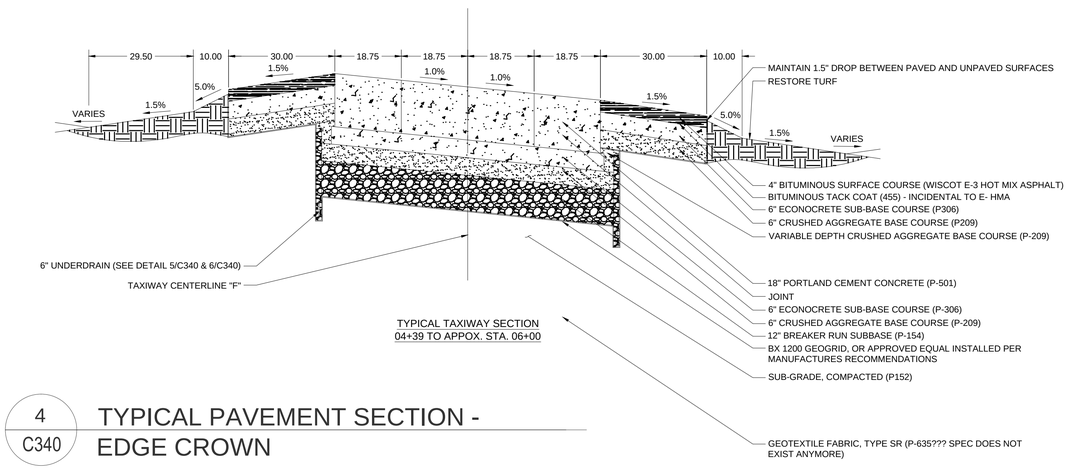
NOTES:
1. SEALANT RESERVOIR SIZED TO PROVIDE PROPER SHAPE FACTOR, W/D. FIELD POURED AND PERFORMED SEALANTS REQUIRE DIFFERENT SHAPE FACTORS FOR OPTIMUM PERFORMANCE.
2. BACKER ROD MATERIAL MUST BE COMPATIBLE WITH THE TYPE OF SEALANT USED AND SIZED TO PROVIDE THE DESIRED SHAPE FACTOR.
3. RECESS SEALER 3/8 INCHES TO 1/2 INCHES (10 mm TO 12 mm) FOR JOINTS PERPENDICULAR TO RUNWAY GROOVES.
4. CHAMFERED EDGES ARE RECOMMENDED FOR DETAILS 2 AND 3 WHEN PAVEMENTS ARE SUBJECT TO SNOW REMOVAL EQUIPMENT OR HIGH TRAFFIC VOLUMES.

FIGURE 3-9. RIGID PAVEMENT JOINT TYPE DETAILS

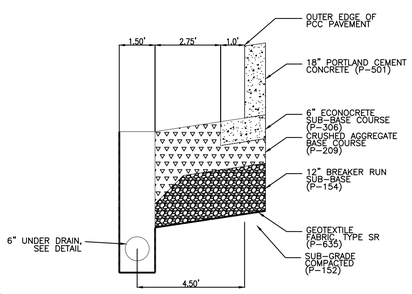
2 / C340 FAA DETAILS



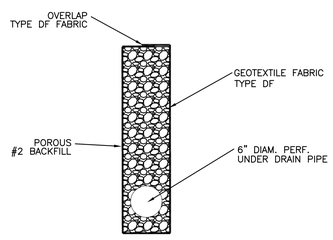
3 / C340 TYPICAL PAVEMENT SECTION - CENTER CROWN



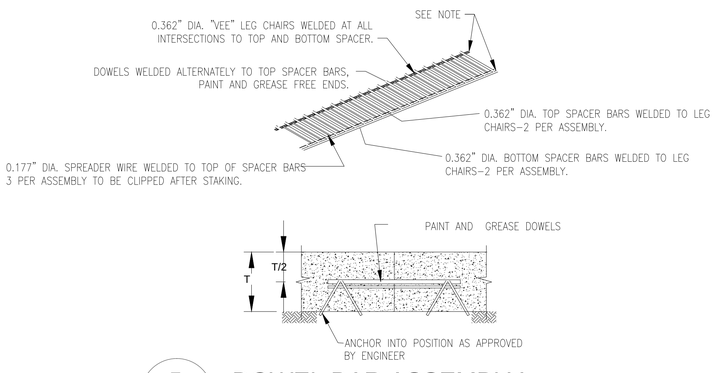
4 / C340 TYPICAL PAVEMENT SECTION - EDGE CROWN



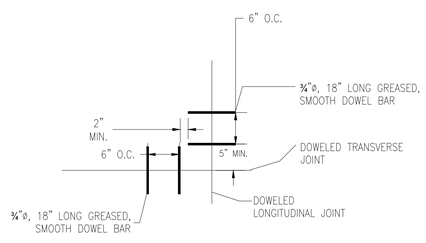
5 / C340 TAXIWAY BASE COURSE EDGE OF PAVEMENT



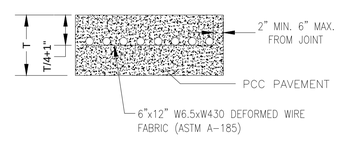
6 / C340 UNDERDRAIN TRENCH DETAIL



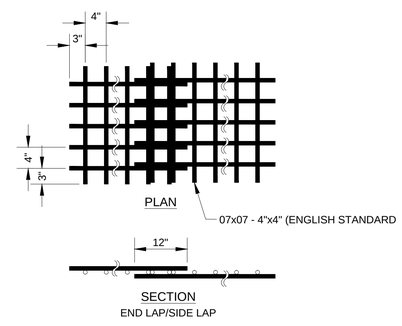
NOTES:
DOWEL BARS SHALL BE SPACED 12" ON CENTER, AND AT LEAST 12" FROM ANY SLAB CORNER.



7 / C340 DOWEL BAR ASSEMBLY



8 / C340 ODD SHAPED PANEL REINFORCEMENT



9 / C340 WELDED WIRE FABRIC

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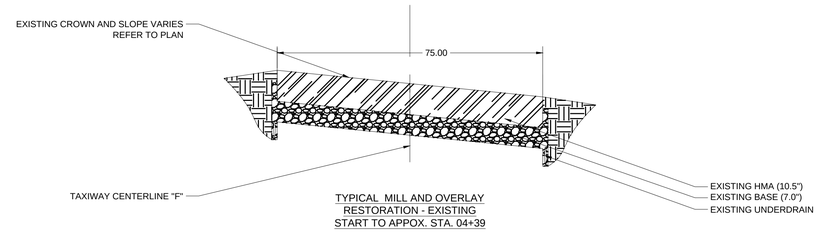
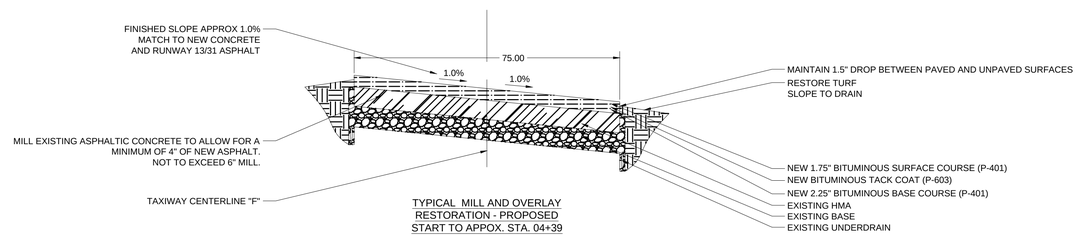
PAVING DETAILS
C340



1
C341

TYPICAL MILL AND OVERLAY - RESTORATION - EXISTING



2
C341

TYPICAL MILL AND OVERLAY RESTORATION - PROPOSED

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PAVING DETAILS
C341

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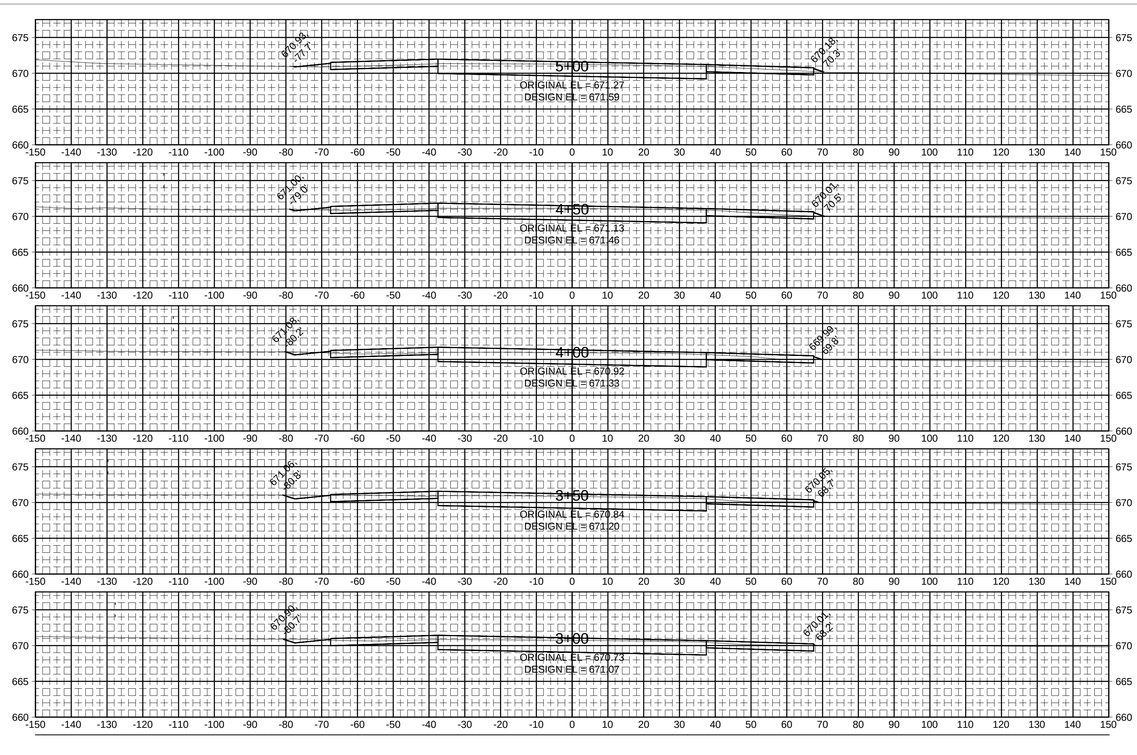

NOTE: FOR PAVEMENT FROM 13/31 TO STATION 4+39: MILL AND OVERLAY EXISTING ASPHALT PAVEMENT. FINAL GRADES TO MATCH GRADES OF SECTIONS. DO NOT INSTALL SHOULDERS. SLOPE TURF RESTORATION TO DRAIN. REFER TO TYPICAL MILL AND OVERLAY SECTIONS.

1 / C350 SECTIONS

SCALE: 1" = 40'

N

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BUILDING NO: N/A

SECTIONS
C350

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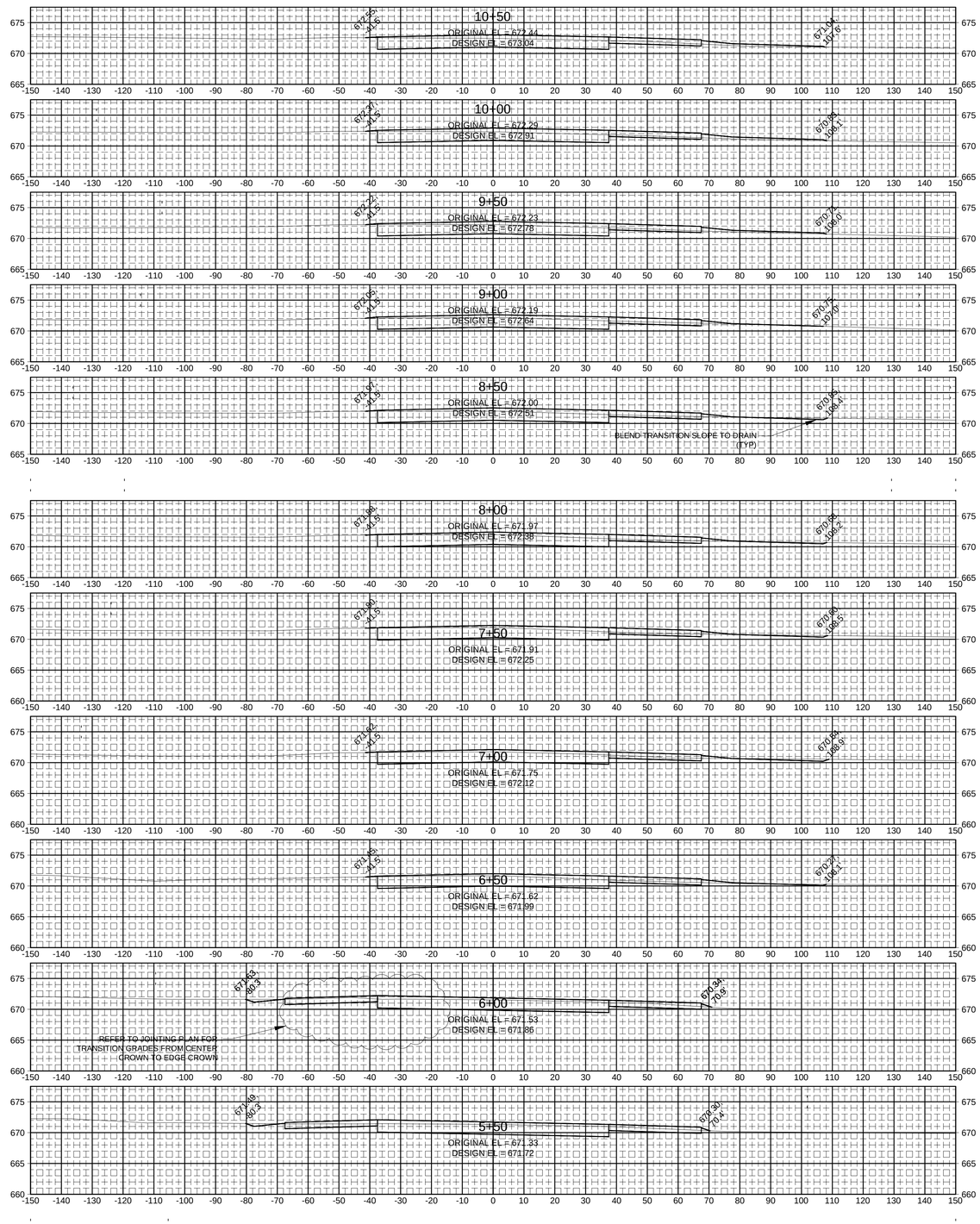

1
C351

SECTIONS

SCALE: 1" = 40'

N

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290
BUILDING NO:
N/A

SECTIONS
C351

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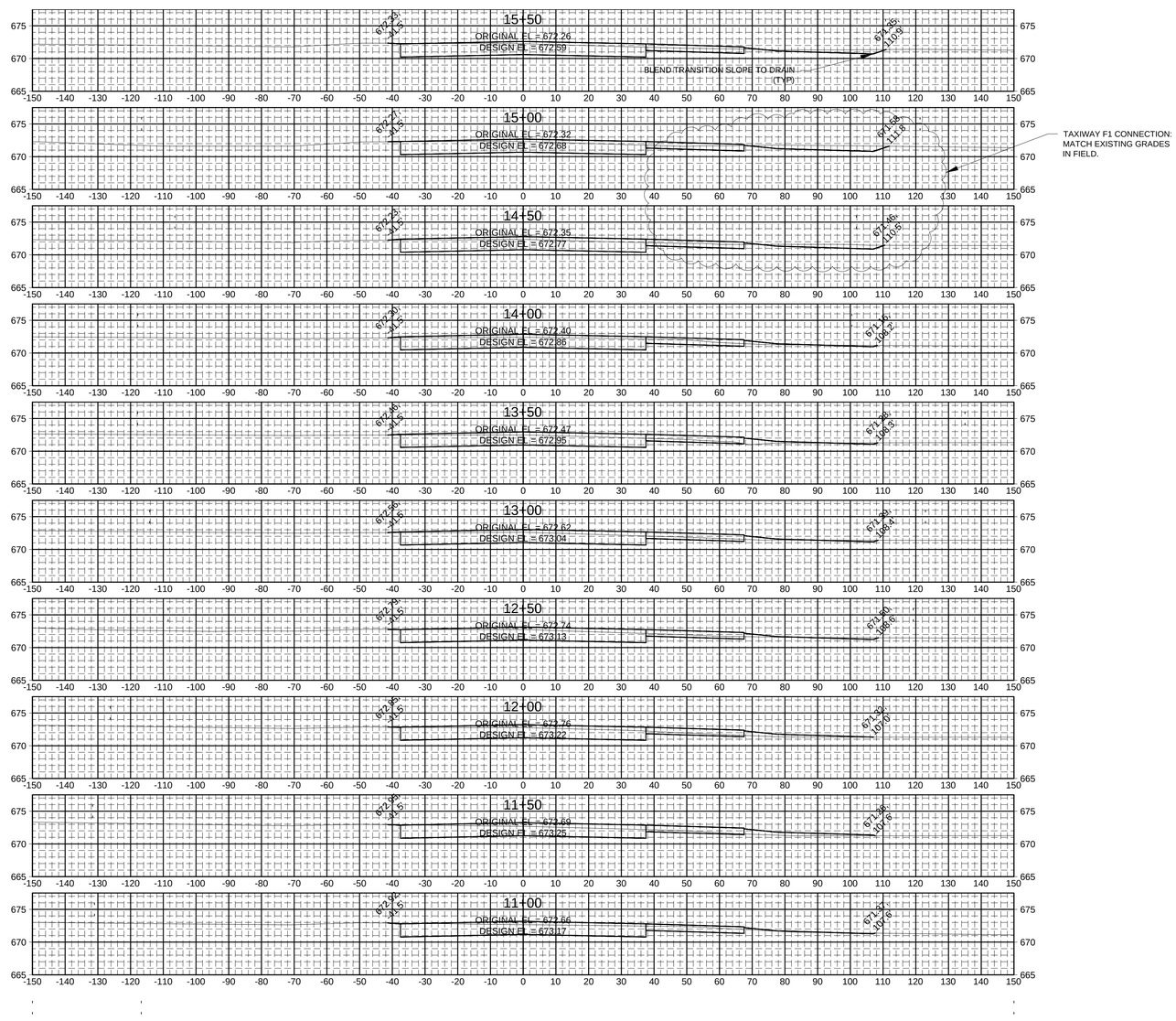


1
C352

SECTIONS

SCALE: 1" = 40'

N

GENERAL MITCHELL INTERNATIONAL AIRPORT
GMIA TAXIWAY F PAVEMENT RECONSTRUCTION
5300 S. HOWELL AVE., MILWAUKEE, WI, 53207

Milwaukee County Dept. of Administrative Services
FACILITIES MANAGEMENT DIVISION
Architectural, Engineering & Environmental Services
633 W. WISCONSIN AVE, SUITE 1000, MILWAUKEE, WI 53203
AIRPORT ENGINEERING, 5300 S. HOWELL AVE, MILWAUKEE, WI 53207

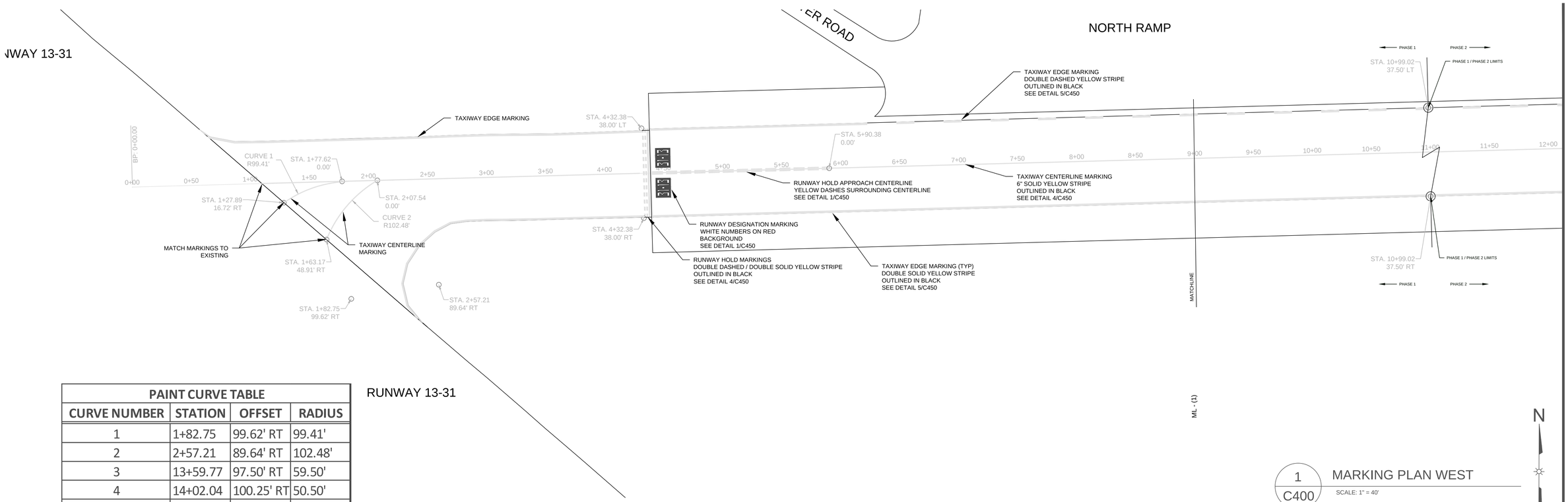
REVISIONS:
--/--/----

DATE:
8/01/2016
PROJECT:
A195-16008
SITE NO:
290
BUILDING NO:
N/A

SECTIONS
C352

taxiway F Rev2_test Work.7DG.9.dwg

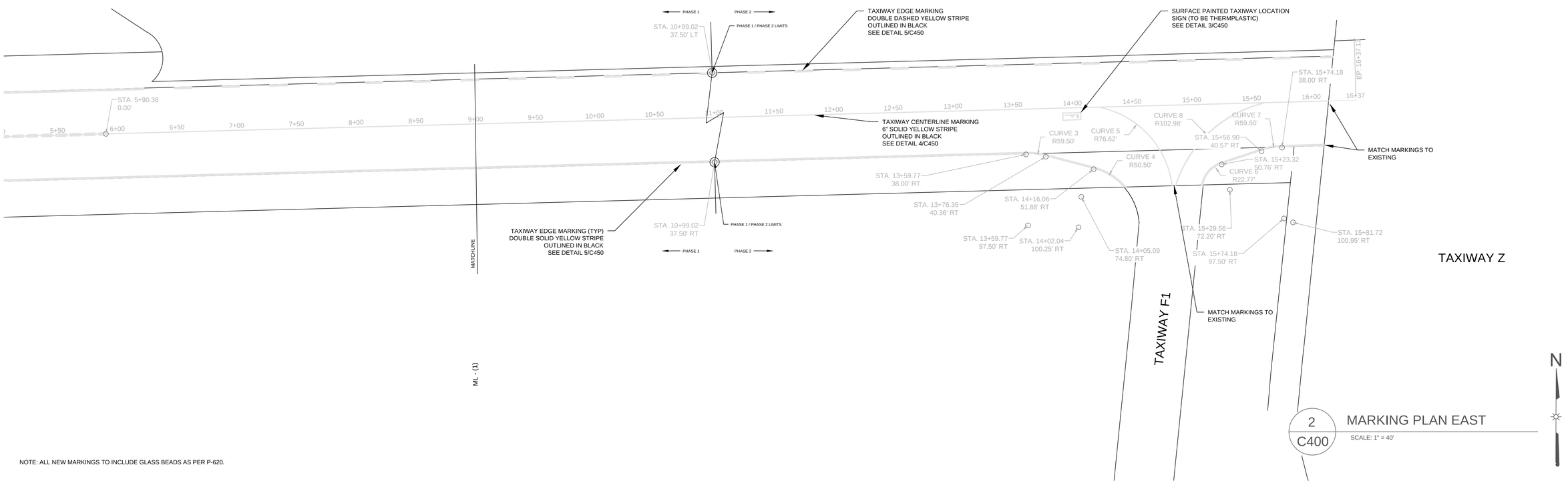
DocuSign Envelope ID: FC661653-7922-47C0-AE38-D4860AFAA218



PAINT CURVE TABLE			
CURVE NUMBER	STATION	OFFSET	RADIUS
1	1+82.75	99.62' RT	99.41'
2	2+57.21	89.64' RT	102.48'
3	13+59.77	97.50' RT	59.50'
4	14+02.04	100.25' RT	50.50'
5	14+05.09	74.80' RT	76.62'
6	15+29.56	72.20' RT	22.77'
7	15+74.18	97.50' RT	59.50'
8	15+81.72	100.95' RT	102.98'

1 / C400 MARKING PLAN WEST

SCALE: 1" = 40'



2 / C400 MARKING PLAN EAST

SCALE: 1" = 40'

NOTE: ALL NEW MARKINGS TO INCLUDE GLASS BEADS AS PER P-620.

GENERAL MITCHELL INTERNATIONAL AIRPORT
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REVISIONS:

DATE: 8/01/2016

PROJECT: A195-16008

SITE NO: 290

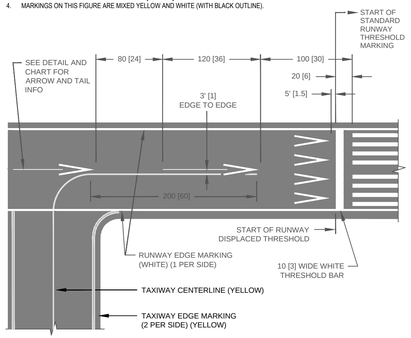
BUILDING NO: N/A

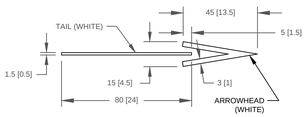
MARKING PLANS

C400

DocuSign Envelope ID: FC661653-7922-47C0-AE38-D4860AFAA218

NOTES:
1. ALL MARKINGS TO INCLUDE A BLACK OUTLINE THAT EXTENDS A MINIMUM OF 6" BEYOND THE OUTSIDE EDGE OF MARKINGS - SEE 7/C402 AND 8/C402 FOR SAMPLE.
2. SEE FAA AC 150/5340 (CURRENT EDITION) FOR COMPLETE MARKING REQUIREMENTS
3. ALL DIMENSIONS ARE EXPRESSED IN FEET [METERS].
4. MARKINGS ON THIS FIGURE ARE MIXED YELLOW AND WHITE (WITH BLACK OUTLINE).

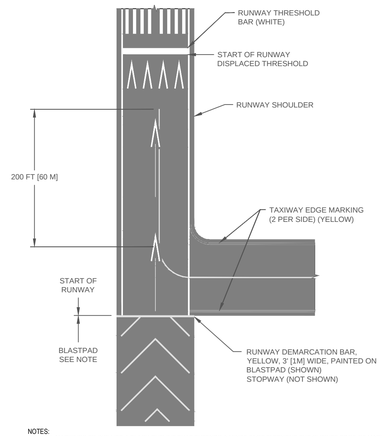




RUNWAY WIDTH	NUMBER OF ARROWHEADS	SPACING BETWEEN ARROWHEADS (W = RUNWAY WIDTH)	SPACING TO RUNWAY EDGE
≥ 100 [30]	4	W/4	W/8
< 100 [30]	3	W/3	W/6
< 60 [18]	2	W/2	W/4

10 / C450 DISPLACED THRESHOLD MARKINGS

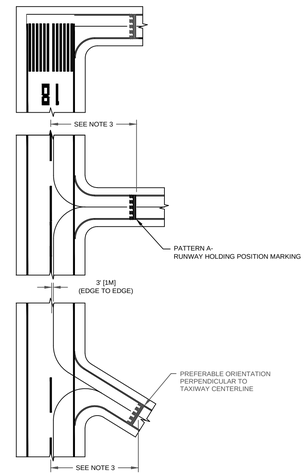
SCALE: NTS ADAPTED FROM FAA 5340-1 (FIGURE A-7)



NOTES:
1. ALL MARKINGS TO INCLUDE A BLACK OUTLINE THAT EXTENDS A MINIMUM OF 6" BEYOND THE OUTSIDE EDGE OF MARKINGS - SEE 7/C402 AND 8/C402 FOR SAMPLE.
2. SEE FAA AC 150/5340 (CURRENT EDITION) FOR COMPLETE MARKING REQUIREMENTS
3. ALL DIMENSIONS ARE EXPRESSED IN FEET [METERS].
4. MARKINGS ON THIS FIGURE ARE MIXED YELLOW AND WHITE (WITH BLACK OUTLINE).

9 / C450 MARKINGS FOR BLAST PADS AND STOPWAYS

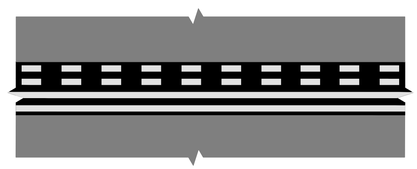
SCALE: NTS ADAPTED FROM FAA 5340-1 (FIGURE A-9)



NOTES:
1. ALL MARKINGS TO INCLUDE A BLACK OUTLINE THAT EXTENDS A MINIMUM OF 6" BEYOND THE OUTSIDE EDGE OF MARKINGS.

8 / C450 BLACK OUTLINE - TAXIWAY EDGE MARKING

SCALE: NTS ADAPTED FROM FAA 5340-1 (FIGURE C-3)



NOTES:
1. ALL MARKINGS TO INCLUDE A BLACK OUTLINE THAT EXTENDS A MINIMUM OF 6" BEYOND THE OUTSIDE EDGE OF MARKINGS.

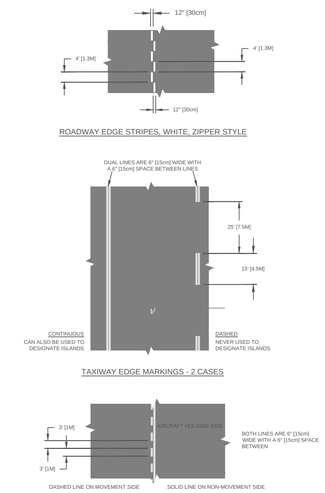
7 / C450 BLACK OUTLINE - HOLDING POSITION

SCALE: NTS ADAPTED FROM FAA 5340-1 (FIGURE C-1)

NOTES:
1. ALL MARKINGS TO INCLUDE A BLACK OUTLINE THAT EXTENDS A MINIMUM OF 6" BEYOND THE OUTSIDE EDGE OF MARKINGS - SEE 7/C402 AND 8/C402 FOR SAMPLE.
2. SEE FAA AC 150/5340 (CURRENT EDITION) FOR COMPLETE MARKING REQUIREMENTS
3. ALL DIMENSIONS ARE EXPRESSED IN FEET [METERS].
4. MARKINGS ON THIS FIGURE ARE MIXED YELLOW AND WHITE (WITH BLACK OUTLINE).

6 / C450 MARKING - TAXIWAY

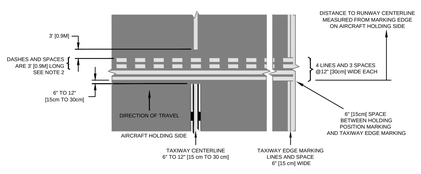
SCALE: NTS ADAPTED FROM FAA 5340-1 (FIGURE A-16)



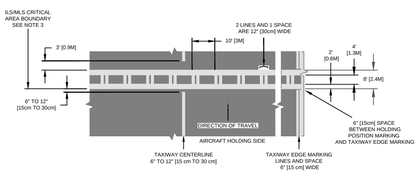
NOTES:
1. ALL MARKINGS TO INCLUDE A BLACK OUTLINE THAT EXTENDS A MINIMUM OF 6" BEYOND THE OUTSIDE EDGE OF MARKINGS - SEE 7/C402 AND 8/C402 FOR SAMPLE.
2. SEE FAA AC 150/5340 (CURRENT EDITION) FOR COMPLETE MARKING REQUIREMENTS
3. ALL DIMENSIONS ARE EXPRESSED IN FEET [METERS].
4. UNLESS NOTED OTHERWISE, ALL MARKINGS ON THIS FIGURE ARE YELLOW (WITH BLACK OUTLINE).

5 / C450 MARKING - TAXIWAY MARKINGS

SCALE: NTS ADAPTED FROM FAA 5340-1 (FIGURE A-15)



PATTERN A - RUNWAY HOLDING POSITION MARKING

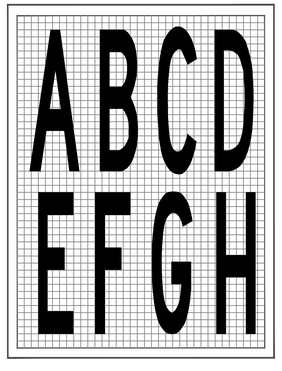


PATTERN B - ILS/MLS HOLDING POSITION MARKING

NOTES:
1. ALL MARKINGS TO INCLUDE A BLACK OUTLINE THAT EXTENDS A MINIMUM OF 6" BEYOND THE OUTSIDE EDGE OF MARKINGS - SEE 7/C402 AND 8/C402 FOR SAMPLE.
2. SEE FAA AC 150/5340 (CURRENT EDITION) FOR COMPLETE MARKING REQUIREMENTS
3. ALL DIMENSIONS ARE EXPRESSED IN FEET [METERS].
4. UNLESS NOTED OTHERWISE, ALL MARKINGS ON THIS FIGURE ARE YELLOW (WITH BLACK OUTLINE).

4 / C450 MARKING - HOLDING POSITIONS

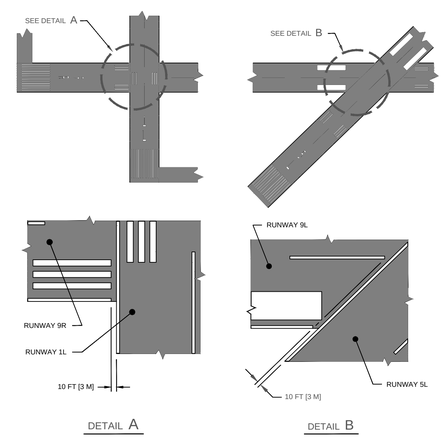
SCALE: NTS ADAPTED FROM FAA 5340-1 (FIGURE A-13)



NOTES:
1. ALL MARKINGS TO INCLUDE A BLACK OUTLINE THAT EXTENDS A MINIMUM OF 6" BEYOND THE OUTSIDE EDGE OF MARKINGS - SEE 7/C402 AND 8/C402 FOR SAMPLE.
2. SEE FAA AC 150/5340 (CURRENT EDITION) FOR COMPLETE MARKING REQUIREMENTS
3. UNLESS NOTED OTHERWISE, ALL MARKINGS IN THIS FIGURE ARE YELLOW (WITH BLACK BACKGROUND).
4. ALL CHARACTERS FOR SURFACE PAINTED TAXIWAY LOCATION SIGNS HAVE THESE CHARACTERISTICS (UNLESS NOTED OTHERWISE) :
   4.1. 12' HIGH
   4.2. PROPORTIONS AS SHOWN ABOVE .
5. THE PAINTED SIGN SHALL BE LOCATED 3' FROM THE EDGE OF THE TAXIWAY CENTERLINE IN THE LOCATION SHOWN ON THE PLANS
6. THE SURFACE PAINTED TAXIWAY LOCATION SIGN HAS A BLACK BACKGROUND WITH A YELLOW INSCRIPTION AND A YELLOW BORDER AROUND ITS PERIMETER FOR ALL PAVEMENT SURFACES.
7. THE BACKGROUND IS RECTANGULAR AND EXTENDS A MINIMUM OF 15", WHICH INCLUDES THE 6" YELLOW BORDER, HORIZONTALLY AND VERTICALLY BEYOND THE EXTREMITIES OF THE YELLOW INSCRIPTION.
8. THE SURFACE PAINTED LOCATION SIGN SHALL BE THERMOPLASTIC.

3 / C450 SURFACE PAINTED TAXIWAY LOCATION SIGN

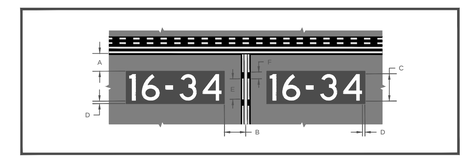
SCALE: NTS ADAPTED FROM FAA 5340-1 (FIGURE B-1)



NOTES:
1. ALL MARKINGS TO INCLUDE A BLACK OUTLINE THAT EXTENDS A MINIMUM OF 6" BEYOND THE OUTSIDE EDGE OF MARKINGS - SEE 7/C402 AND 8/C402 FOR SAMPLE.
2. SEE FAA AC 150/5340 (CURRENT EDITION) FOR COMPLETE MARKING REQUIREMENTS
3. ALL DIMENSIONS ARE EXPRESSED IN FEET [METERS].
4. UNLESS NOTED OTHERWISE, ALL MARKINGS ON THIS FIGURE ARE WHITE (WITH BLACK OUTLINE).

2 / C450 MARKING - INTERSECTING RUNWAYS

SCALE: NTS ADAPTED FROM FAA 5340-1 (FIGURE A-5)



NOTES:
A. 2-4 Feet.
B. 3-10 Feet.
C. 9-12 Feet. Inscriptions must have a height of 12 feet; however, the height may be reduced, as necessary, to the minimum height of 9 feet. In all cases, inscriptions follow Appendix B (FAA 5340-1) inscription criteria.
D. 15 Inches.
E. 9 Feet.
F. 3 Feet.
G. Use Thermoplastic Markings for the Holding Position Sign.

1 / C450 PAINTED HOLDING POSITION

SCALE: NTS ADAPTED FROM FAA 5340-1 (FIGURE A-3)

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AIRPORT ENGINEERING, 5300 S. HOWELL AVE., MILWAUKEE, WI 53207

REVISIONS:

DATE: 8/01/2016
PROJECT: A195-16008
SITE NO: 290
BUILDING NO: N/A

MARKING DETAILS
C450

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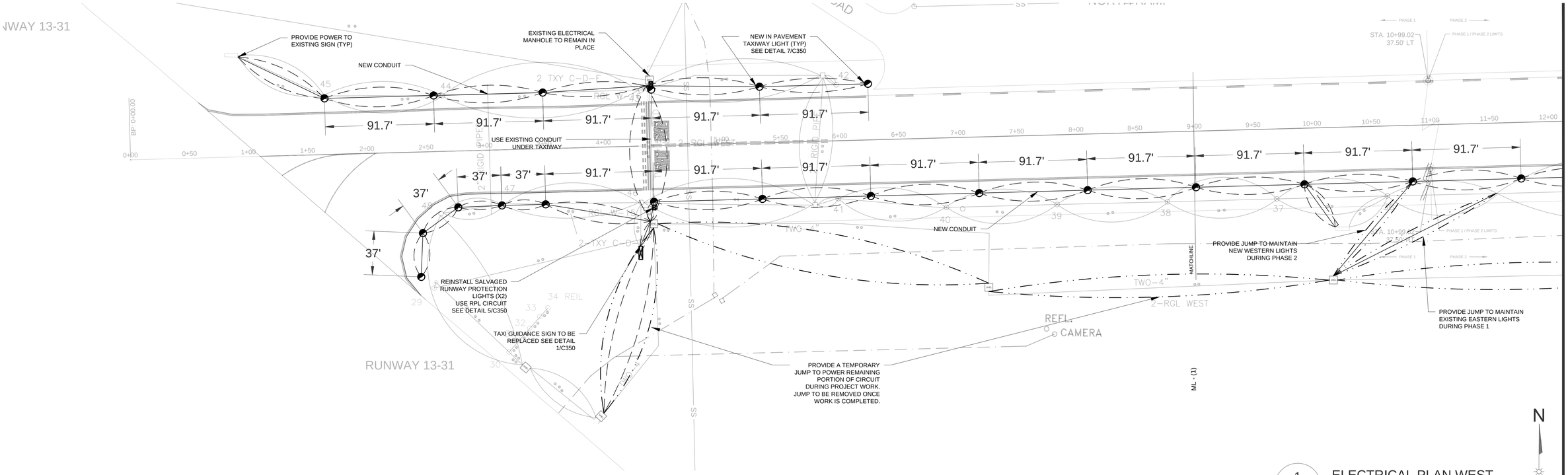
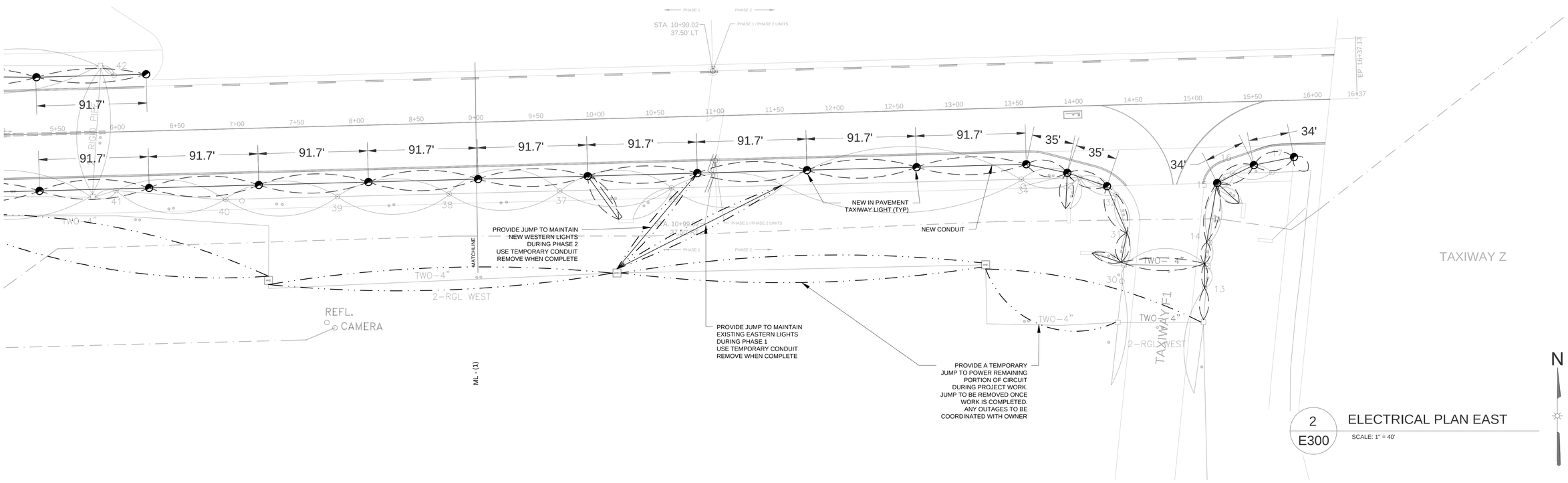


1 E300 ELECTRICAL PLAN WEST

SCALE: 1" = 40'

NEW ELECTRICAL CONDUIT
NEW WIRE DIAGRAM
TEMPORARY JUMP WIRE DIAGRAM
NEW TAXIWAY EDGE LIGHT
NEW TAXI GUIDANCE SIGN
SALVAGED RUNWAY GUARD LIGHT

NOTE 1: REUSE SALVAGED LIGHTS & TRANSFORMERS IN NEW TAXIWAY LIGHTING. PROVIDE NEW LIGHTS AND TRANSFORMERS WHERE NEEDED TO COVER ADDITIONAL REQUIRED QUANTITY.



2 E300 ELECTRICAL PLAN EAST

SCALE: 1" = 40'

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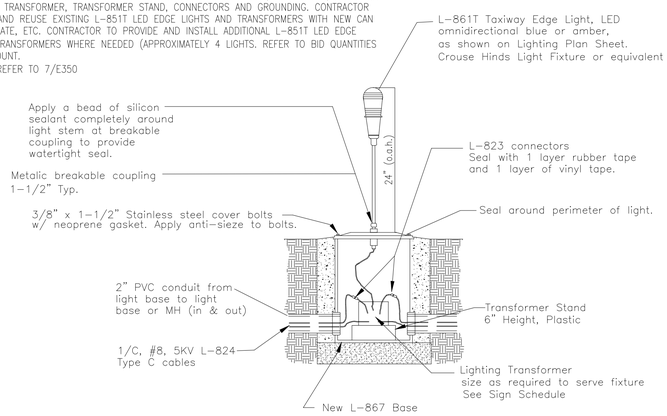
REVISIONS:
--/--/----

DATE: 8/01/2016
PROJECT: A195-16008
SITE NO: 290
BUILDING NO: N/A

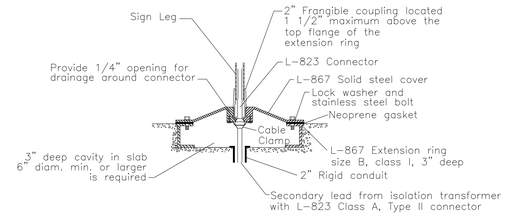
ELECTRICAL PLANS
E300

DocuSign Envelope ID: FC661653-7922-47C0-AE38-D4860AFAA218

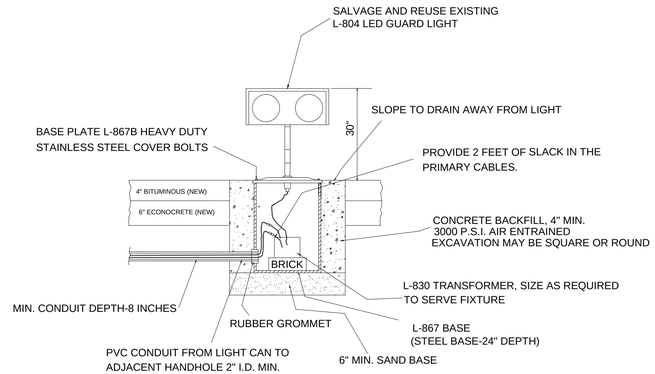
NOTE 1: TAXIWAY LIGHTING REPLACEMENT TO INCLUDE NEW CAN BASE, BASE PLATE, STAINLESS STEEL BOLTS, TRANSFORMER, TRANSFORMER STAND, CONNECTORS AND GROUNDING. CONTRACTOR TO SALVAGE AND REUSE EXISTING L-851T LED EDGE LIGHTS AND TRANSFORMERS WITH NEW CAN BASE, BASEPLATE, ETC. CONTRACTOR TO PROVIDE AND INSTALL ADDITIONAL L-851T LED EDGE LIGHTS AND TRANSFORMERS WHERE NEEDED (APPROXIMATELY 4 LIGHTS. REFER TO BID QUANTITIES FOR FINAL COUNT.
NOTE 2: REFER TO 7/E350



4 E350 TAXIWAY EDGE LIGHT DETAIL



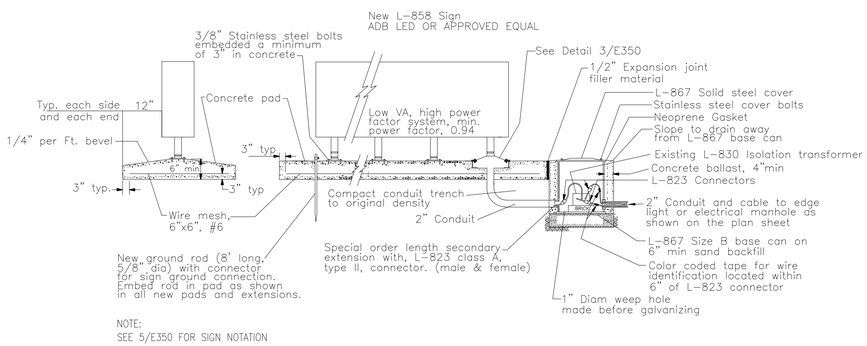
3 E350 SIGN BASE CAVITY DETAIL A



NOTE:
SALVAGE AND REUSE EXISTING L-804 LED GUARD LIGHT
REPLACE CAN, BASE PLATE, STAINLESS STEEL BOLTS, TRANSFORMER, CONDUIT, WIRING, CONNECTIONS, AND ALL OTHER COMPONENTS.
REFER TO 7/E350

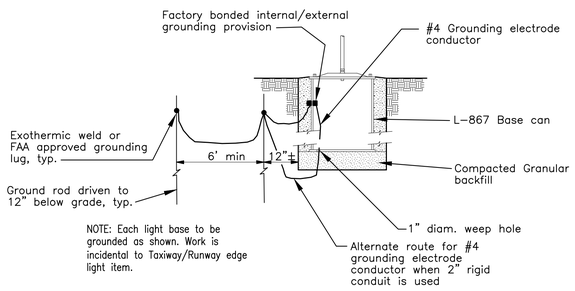
CONNECT TO GUARD LIGHT CIRCUIT AT MANHOLE.

5 E350 RUNWAY GUARD LIGHTS



NOTE:
SEE 5/E350 FOR SIGN NOTATION

1 E350 TAXI GUIDANCE SIGN DETAIL



NOTE: Each light base to be grounded as shown. Work is incidental to Taxiway/Runway edge light item.

GENERAL NOTES:

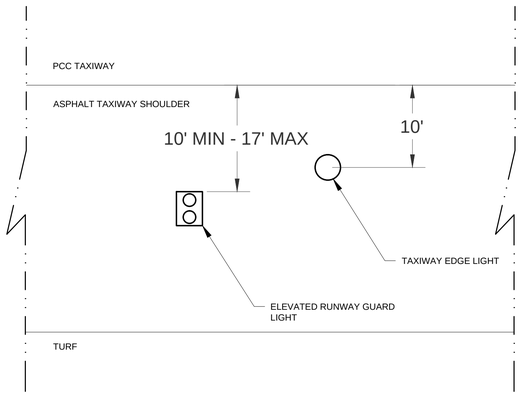
1. Grounding rods, 5/8"x8' shall be placed on each side of Taxiway; no more than 1000' spacing.
2. See Lighting Plan Sheet for Light locations.
3. Apply "NEVER-SEEZ" or approved equal to all threaded bolts and connections.
4. Non-metallic components in light fixtures, stems, breakable couplings and bases are not permitted.

2 E350 LIGHT BASE CAN STANDARD GROUNDING DETAIL

EAST FACE OF RUNWAY HOLD SIGN

WEST FACE OF RUNWAY HOLD SIGN

6 E350 TAXI GUIDANCE SIGN NOTATION



7 E350 TAXIWAY LIGHTS OFFSETS

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ELECTRICAL PLANS
E350

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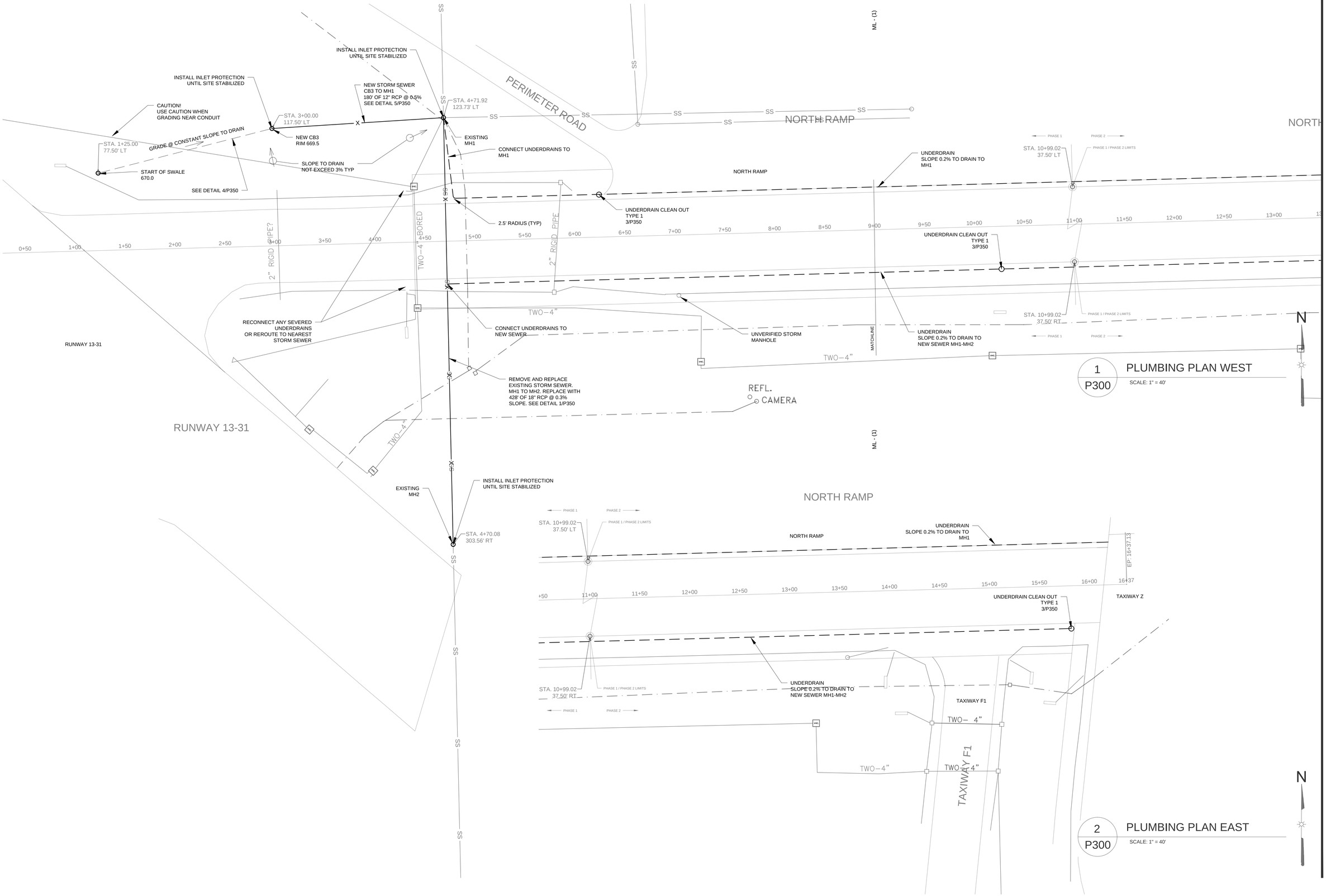

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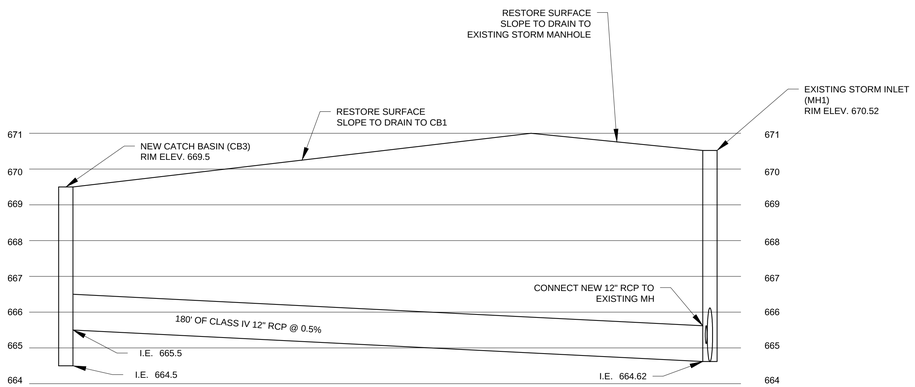
--/--/----

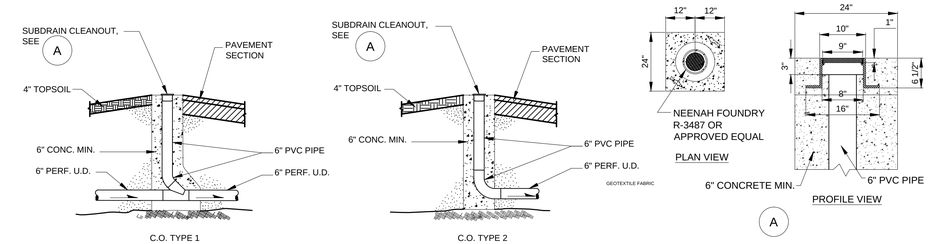
DATE: **8/01/2016**
PROJECT: **A195-16008**
SITE NO: **290**
BUILDING NO: **N/A**

PLUMBING PLANS
P300



5 / P350 SECTION CB3 TO MH1

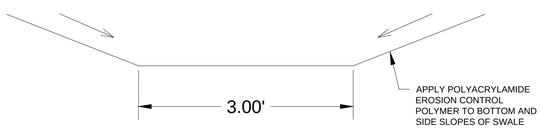
1:20 H - 1:2 V



6 / P350 UNDERDRAIN CLEAN OUT DETAILS

NTS

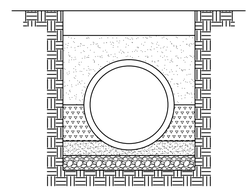
MAX 3% SIDE SLOPES
SLOPE BOTTOM OF SWALE TO DRAIN



NOTE: APPLY A POLYACRYLAMIDE EROSION CONTROL POLYMER (APS 700 SERIES SILT STOP OR APPROVED EQUAL) TO SWALE BOTTOM AND SIDE SLOPES AS A MIX WITH THE HYDROSEED MIXTURE PER MANUFACTURES RECOMMENDATION. ITEM INCIDENTAL TO SEED / HYDRO MUL:CH BID ITEMS.

4 / P350 SWALE DETAIL

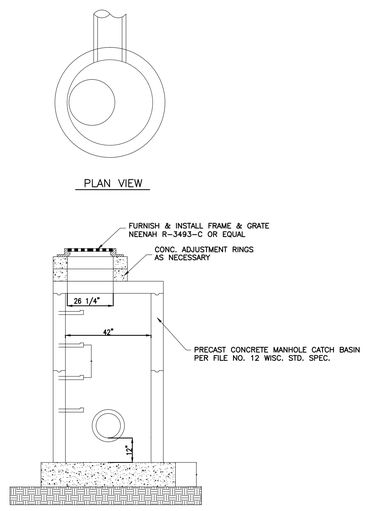
NTS



TRENCH DETAIL – CLASS B
PER FILE NO. 4 WISC. STD. SPEC.
TO BE USED FOR NEW 12" & 18" STORM SEWER
COMPACTION TO MEET TYPE 2 INSTALLATION: CONCRETE
PIPE DESIGN MANUAL – AMERICAN CONCRETE PIPE
ASSOCIATION

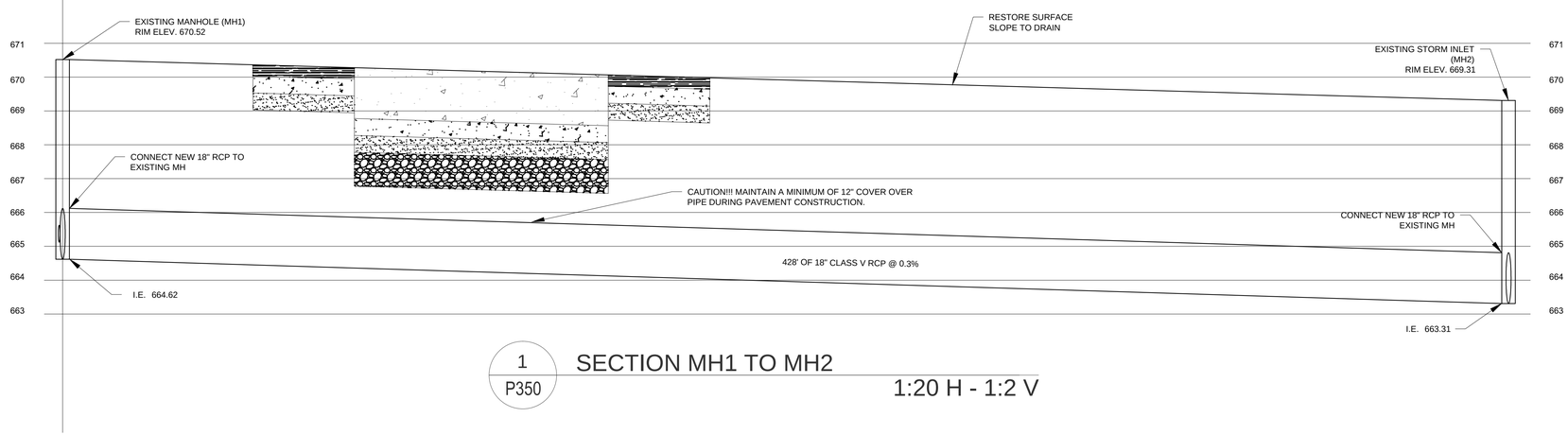
3 / P350 TRENCH DETAIL

NTS



2 / P350 CATCH BASIN DETAIL

NTS



1 / P350 SECTION MH1 TO MH2

1:20 H - 1:2 V

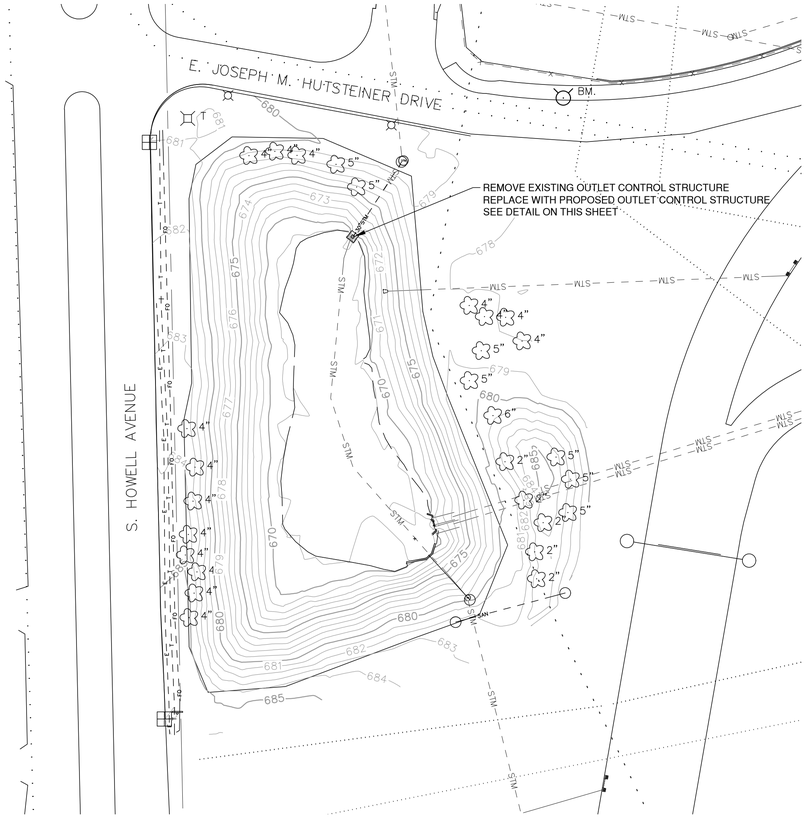
GENERAL MITCHELL INTERNATIONAL AIRPORT
GMIA TAXIWAY F PAVEMENT RECONSTRUCTION
5300 S. HOWELL AVE., MILWAUKEE, WI, 53207

Milwaukee County Dept. of Administrative Services
FACILITIES MANAGEMENT DIVISION
Architectural, Engineering & Environmental Services
633 W. WISCONSIN AVE, SUITE 1000, MILWAUKEE, WI 53203
AIRPORT ENGINEERING, 5300 S. HOWELL AVE, MILWAUKEE, WI 53207

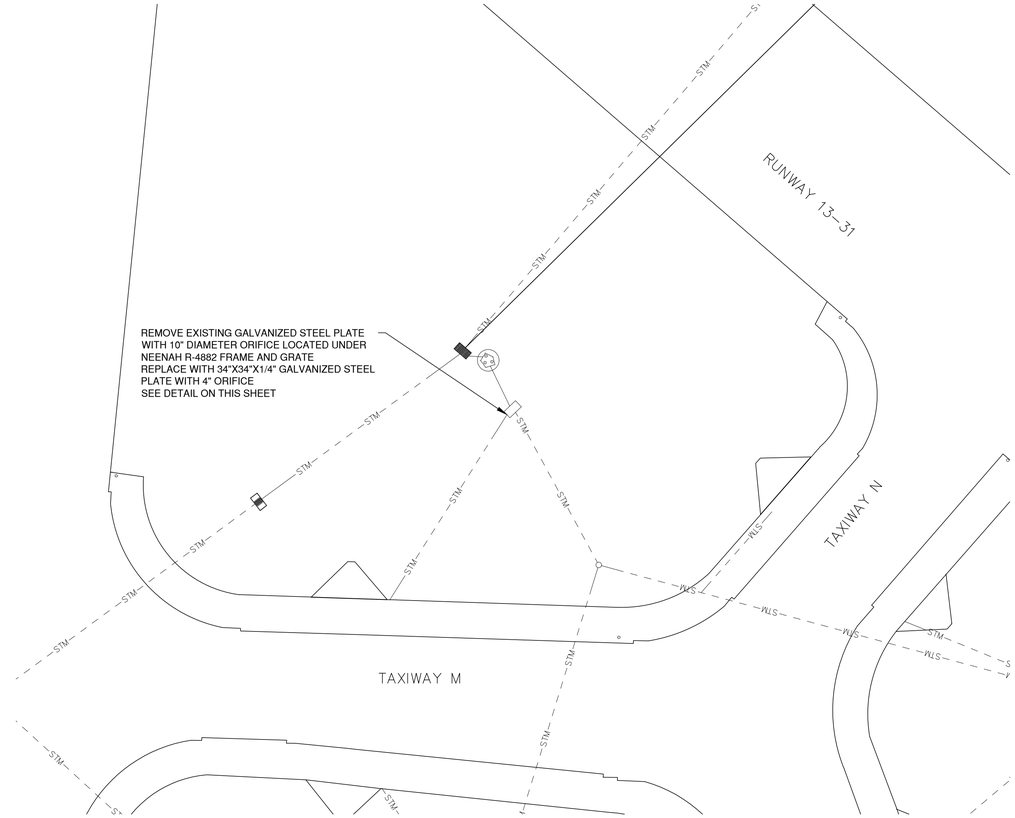
REVISIONS:
08/11/2016

DATE:
8/01/2016
PROJECT:
A195-16008
SITE NO:
290
BUILDING NO:
N/A

PLUMBING PLANS
P350



POND 13A PLAN VIEW

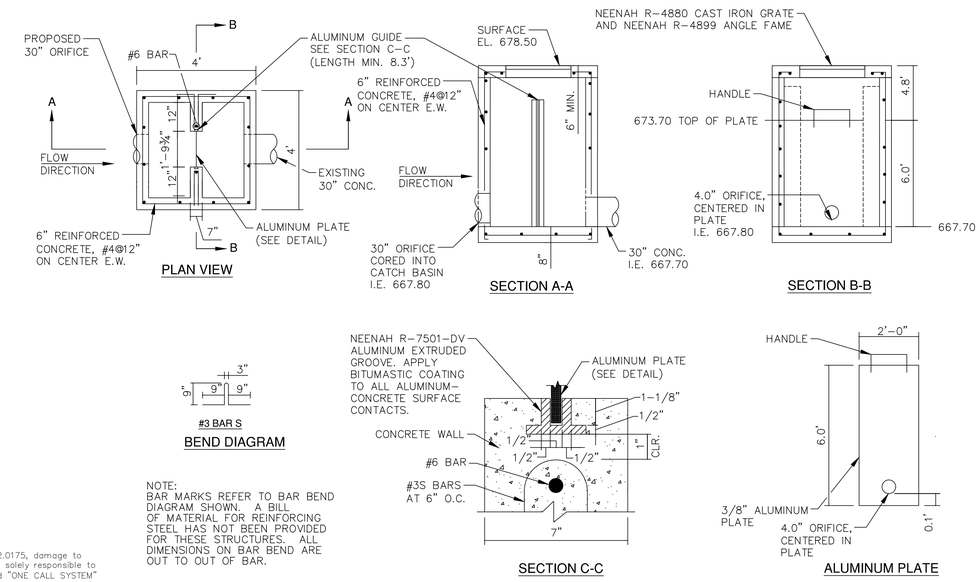


POND 12A-400A PLAN VIEW

N

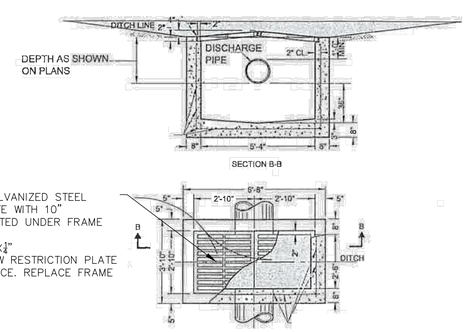
0 25' 50' 100'

SCALE: 1" = 50'



NOTE:
BAR MARKS REFER TO BAR BEND DIAGRAM SHOWN. A BILL OF MATERIAL FOR REINFORCING STEEL HAS NOT BEEN PROVIDED FOR THESE STRUCTURES. ALL DIMENSIONS ON BAR BEND ARE OUT TO OUT OF BAR.

POND 13A OUTLET DETAIL (N.T.S)



REMOVE 34"X34"X¼" GALVANIZED STEEL FLOW RESTRICTION PLATE WITH 10" DIAMETER ORIFICE LOCATED UNDER FRAME AND GRATE.
REPLACE WITH 34"X34"X¼" GALVANIZED STEEL FLOW RESTRICTION PLATE WITH 4" DIAMETER ORIFICE. REPLACE FRAME AND GRATE.

POND 12A-400A OUTLET DETAIL (N.T.S)

NOTICE:
In accordance with Wisconsin statute 182.0175, damage to transmission facilities, excavator shall be solely responsible to provide advance notice to the designated "ONE CALL SYSTEM" not less than three working days prior to commencement of any excavation required to perform work contained on this drawing, and further, excavator shall comply with all other requirements of this statute relative to excavator's work.

DISCLAIMER:
The underground utilities shown have been located from field survey information and existing drawings. The surveyor makes no guarantees that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities.

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REVISIONS:

DATE: 5/5/2016
PROJECT: A195-16008
SITE NO: 290
BUILDING NO: N/A

POND DETAILS
P351