

ITEM NO. 2A

CONSTRUCTION PLANS

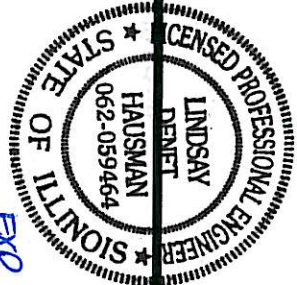
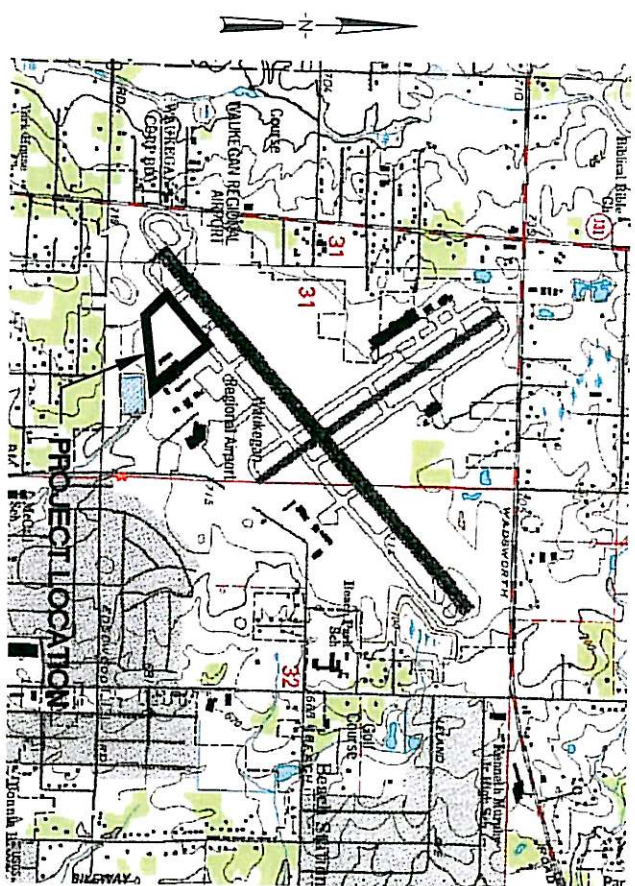
REHABILITATE AND WIDEN TAXIWAYS

WAUKEGAN PORT DISTRICT
 WAUKEGAN REGIONAL AIRPORT (UGN)
 WAUKEGAN, LAKE COUNTY, ILLINOIS

AIP PROJECT NO. 3-17-0105-B48
 IDA PROJECT NO. UGN-4034

WA063
 TOTAL SHEETS = 36

VICINITY MAP



Seal

Date of Plans

EXP. 11/30/11

Lindsay Hausman
 Project Engineer P.E.
 3/4/11

No.	Issue/Description	Sheets Changed	Date	By

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 PROFESSIONAL SERVICES INC.
 815 Corporate Drive, Suite 200
 Oak Brook, Illinois 60523
 Telephone: 630.990.3800
 Fax: 630.990.3801

Ronald M. Hudson, AICP
 Project Manager
 01 Nov 2011
 Date

WAUKEGAN REGIONAL AIRPORT
 WAUKEGAN PORT DISTRICT
 3580 North McAre Road
 Waukegan, Illinois 60087
 Telephone: 847.244.0066
 Fax: 847.244.1813

Duncan C. Henderson
 Executive Director
 1/11/2011
 Date

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SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	AS BID	RECORD PAID
AR110551	EXTEND DUCT	LINEAR FOOT	18.0	
AR125100	ELEVATED RETROREFLECTIVE MARKER	EACH	25.0	
AR150510	ENGINEER'S FIELD OFFICE	LUMP SUM	1.0	
AR152410	UNCLASSIFIED EXCAVATION	CUBIC YARD	3,147.0	
AR156510	SILT FENCE	LINEAR FOOT	525.0	
AR156513	SEPARATION FABRIC	SQUARE YARD	4,973.0	
AR156520	INLET PROTECTION	EACH	18.0	
AR163910	FENCE REMOVAL, WOOD	LINEAR FOOT	103.0	
AR209610	CRUSHED AGG. BASE COURSE - 10"	SQUARE YARD	5,615.0	
AR401613	BIT. SURF. CSE. - METHOD 1, SUPERPAVE	TON	750.0	
AR401650	BITUMINOUS PAVEMENT MILLING	SQUARE YARD	2,854.0	
AR401660	SAW AND SEAL BIT. JOINTS	LINEAR FOOT	943.0	
AR401665	BITUMINOUS PAVEMENT SAWING	LINEAR FOOT	656.0	
AR401900	REMOVE BITUMINOUS PAVEMENT	SQUARE YARD	3,720.0	
AR403613	BIT. BASE CSE. - METHOD 1, SUPERPAVE	TON	1,732.0	
AR602510	BITUMINOUS PRIME COAT	GALLON	1,625.0	
AR603510	BITUMINOUS TACK COAT	GALLON	2,391.0	
AR620520	PAVEMENT MARKING - WATERBORNE	SQUARE FOOT	4,317.0	
AR701212	12" CMP	LINEAR FOOT	16.0	
AR701512	12" RCP, CLASS IV	LINEAR FOOT	157.0	
AR705506	6" PERFORATED UNDERDRAIN	LINEAR FOOT	1,753.0	
AR705640	UNDERDRAIN CLEANOUT	EACH	6.0	
AR705900	REMOVE UNDERDRAIN	LINEAR FOOT	82.0	
AR705904	REMOVE UNDERDRAIN CLEANOUT	EACH	2.0	
AR705940	ADJUST UNDERDRAIN	LINEAR FOOT	14.0	
AR705944	ADJUST UNDERDRAIN CLEANOUT	EACH	1.0	
AR751411	INLET - TYPE A	EACH	1.0	
AR751540	MANHOLE 4'	EACH	2.0	
AR752412	PRECAST REINFORCED CONC. FES 12"	EACH	1.0	
AR752512	GRATING FOR CONC. FES 12"	EACH	1.0	
AR800925	EROSION MAT	SQUARE YARD	235.0	
AR800928	GRANULAR DRAINAGE SUBBASE - 4"	SQUARE YARD	4,973.0	
AR800934	TEMP. CONSTRUCT. SIGNS	LUMP SUM	1.0	
AR800967	CRACK CONTROL MATERIAL	SQUARE YARD	2,854.0	
AR901510	SEEDING	ACRE	1.8	
AR905510	TOPSOILING (FROM ON SITE)	CUBIC YARD	1,049.0	
AR908510	MULCHING	ACRE	1.8	
AR910975	RELOCATE ROADWAY SIGN	EACH	2.0	

PAYMENT WILL BE MADE UNDER THE ITEM NUMBERS, DESCRIPTIONS AND UNITS NOTED IN THE ABOVE TABLE IN ACCORDANCE WITH THE BASIS OF PAYMENT FOR EACH RESPECTIVE WORK ITEM NOTED IN THE SPECIAL PROVISIONS, COMPLETED AND ACCEPTED BY THE ENGINEER.

SHEET INDEX AND SUMMARY OF QUANTITIES

REHABILITATE AND WIDEN TAXIWAY S BETWEEN TAXIWAY S1 AND S2
 IDA No. UGN-4034 AIP No. 3-17-0105-B48



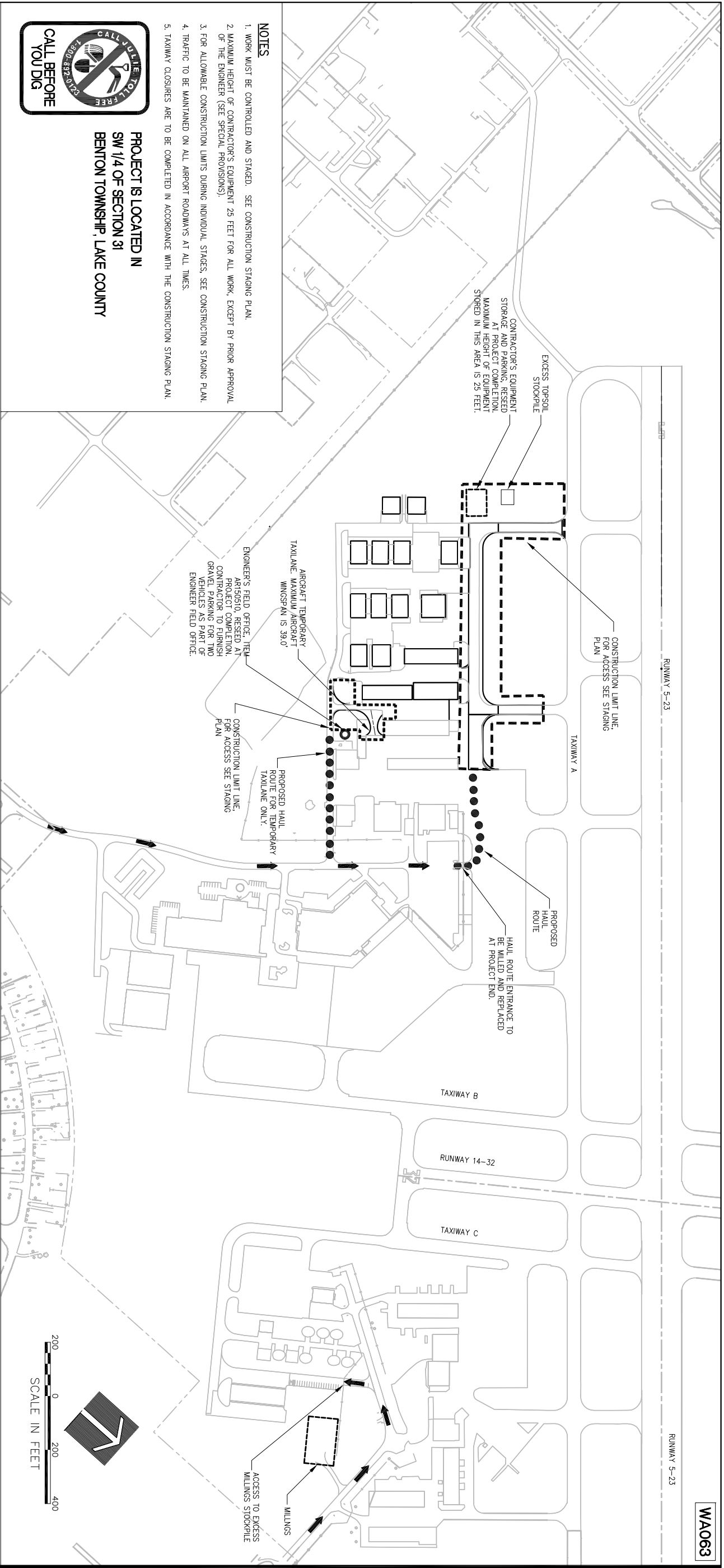
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Hanson No.	10A0035D	
Filename	02-SUMMARY OF QUANTITIES.DWG	
Scale	N/A	
Date	OCTOBER 29, 2010	
LAYOUT	LDH	12/30/10
DRAWN	LDH	12/30/10
REVIEWED	RMH	10/28/10



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 WAUKEGAN PORT DISTRICT
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 Waukegan, Illinois 60087
 Telephone: 847.244.0066
 Fax: 847.244.3813

DATE	REVISION



WA063

NOTES

1. WORK MUST BE CONTROLLED AND STAGED. SEE CONSTRUCTION STAGING PLAN.
2. MAXIMUM HEIGHT OF CONTRACTOR'S EQUIPMENT 25 FEET FOR ALL WORK, EXCEPT BY PRIOR APPROVAL OF THE ENGINEER (SEE SPECIAL PROVISIONS).
3. FOR ALLOWABLE CONSTRUCTION LIMITS DURING INDIVIDUAL STAGES, SEE CONSTRUCTION STAGING PLAN.
4. TRAFFIC TO BE MAINTAINED ON ALL AIRPORT ROADWAYS AT ALL TIMES.
5. TAXIWAY CLOSURES ARE TO BE COMPLETED IN ACCORDANCE WITH THE CONSTRUCTION STAGING PLAN.



**PROJECT IS LOCATED IN
 SW 1/4 OF SECTION 31
 BENTON TOWNSHIP, LAKE COUNTY**

GENERAL NOTES

PROJECT DESCRIPTION

- THIS PROJECT IS TO REHABILITATE AND REPLACE TAXIWAY S AT WAUKEGAN REGIONAL AIRPORT, INCLUDING, AMONG OTHER INCIDENTAL WORK, THE FOLLOWING ITEMS:
- PLACEMENT OF TEMPORARY EROSION CONTROL MEASURES
 - CONSTRUCTION OF TEMPORARY ACCESS TAXILANE
 - EXTENSION OF / ADDITION TO EXISTING CONCRETE STORM SEWER SYSTEM
 - EXTENSION OF ADDITION TO SUBSURFACE UNDERDRAIN SYSTEM AND GRANULAR DRAINAGE SUBBASE
 - EXTENSION OF CONCRETE ENCASED ELECTRICAL DUCTS
 - REMOVAL AND REPLACEMENT OF EXISTING BITUMINOUS TAXIWAY PAVEMENTS
 - BITUMINOUS OVERLAY OF EXISTING ASPHALT TAXIWAY PAVEMENTS
 - PLACEMENT OF PAVEMENT MARKINGS
 - INSTALLATION OF PAVEMENT EDGE REFLECTIVE MARKERS
 - TOPSOILING, SEEDING AND MULCHING AROUND NEW PAVEMENTS

PROTECTION OF EXISTING AIRPORT FACILITIES

THE CONTRACTOR IS TO BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES AND LIGHTING EQUIPMENT, BRIKWAY AND ROAD PAVEMENT AND SHOULDERS, RUNWAY, TAXIWAY AND APRON PAVEMENTS AND SHOULDERS, RUNWAY, TAXIWAY AND AIRPORT LIGHTING EQUIPMENT, AND SETTED AND TURNED AREAS THAT ARE UTILIZED IN OR AFFECTED BY THE CONTRACTOR'S ACTIVITIES. ITEMS DAMAGED BY THE CONTRACTOR ARE TO BE REPAIRED AT CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF AIRPORT MANAGER AND THE OWNER'S REPRESENTATIVE.

IN ADDITION WHEN CONDITIONS DICTATE OR AS DETERMINED BY THE AIRPORT MANAGER OR THE OWNER'S REPRESENTATIVE, FIELD PAVEMENT SHALL BE RECONSTRUCTED OR REPAIRED TO THE SPECIFIC SHEETS IN THESE PLANS. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN ALL NECESSARY PERMITS AND TO BE AVAILABLE FOR USE AT ALL TIMES. THE COST OF SLEEPING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE FAA (FAO) THROUGH THE RESIDENT ENGINEER TO LOCATE ALL FAA CABLES ON THE PROJECT SITE. ALL FAA CABLES SHALL BE PROTECTED AT ALL TIMES.

CONTRACTOR'S ACCESS AND TEMPORARY FACILITIES

CONTRACTOR'S ACCESS TO THE PROJECT WHEN ON AIRPORT PROPERTY IS SHOWN ON THIS SHEET. CONTRACTOR'S ACCESS TO THE AIRPORT ITSELF IS TO BE PROVIDED BY PUBLIC RIGHTS-OF-WAY. THE CONTRACTOR IS TO SECURE ALL NECESSARY PERMITS FOR THE USE OF ANY PUBLIC RIGHTS-OF-WAY AND IS TO MAINTAIN TRAFFIC ON THESE PUBLIC ROADS AT ALL TIMES, WITH THE COSTS OF PERMITTING, CLEANING AND REPAIRING OF PAVEMENT DAMAGED BY CONTRACTOR'S ACTIVITIES INCIDENTAL TO THE CONTRACT. USE OF AND REPAIRS TO ANY PUBLIC FACILITIES ARE TO BE COMPLETED TO THE SATISFACTION OF THE FACILITY'S OWNER.

HEAVY VEHICLES SHALL NOT CROSS EXISTING PAVEMENT SURFACES EXCEPT AS APPROVED BY THE AIRPORT MANAGER AND THE OWNER'S REPRESENTATIVE. ANY DAMAGE TO PAVEMENTS THAT MAY OCCUR BY THE CONTRACTOR'S ACTIVITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE AIRPORT MANAGER AND THE OWNER'S REPRESENTATIVE.

THE CONTRACTOR IS TO PROVIDE AN EQUIPMENT, STORAGE AND PARKING AREA AT THE LOCATION SHOWN ON THIS SHEET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE ACCESS ROADS AND THE STORAGE AREA DURING CONSTRUCTION AND TO RESTORE THE AREAS AT PROJECT COMPLETION TO CONDITIONS SUITABLE TO THE AIRPORT MANAGER AND THE OWNER'S REPRESENTATIVE. AT THE AIRPORT MANAGER'S DISCRETION, THE TEMPORARY FACILITIES MAY REMAIN, BUT THEY MUST BE LEFT IN CONDITIONS SUITABLE TO THE AIRPORT MANAGER. THE COST OF PROVIDING, MAINTAINING AND RESTORING THE TEMPORARY FACILITIES IS INCIDENTAL TO THE CONTRACT.

RESPONSIBILITY FOR EXISTING UTILITIES

THE LOCATION, SIZE AND/OR TYPE OF MATERIAL OF EXISTING UNDERGROUND OR OVERHEAD UTILITIES AS MAY BE INDICATED ON THESE CONSTRUCTION PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. NEITHER THE OWNER NOR THE PROJECT ENGINEER HAVE INDEPENDENTLY VERIFIED THIS INFORMATION AND NEITHER ASSUMES ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO THE ACCURACY, SUFFICIENCY OR COMPLETENESS OF THE INFORMATION AND GIVE NO EXPRESSED OR IMPLIED GUARANTEE THAT ANY CONDITIONS INDICATED ARE REPRESENTATIVE OF ACTUAL CONDITIONS TO BE ENCOUNTERED.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND AGENCIES OF HIS CONSTRUCTION PLANS AND SHALL OBTAIN FROM EACH PARTY DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF ALL UTILITIES AND THE WORKING SCHEDULE OF ANY REMOVALS OR ADJUSTMENTS REQUIRED OF THE UTILITY. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND AGENCIES TO ASSIST IN THE ABOVE.

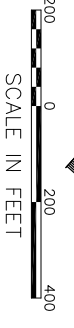
THE CONTRACTOR SHALL PROTECT ANY FACILITIES TO THE SATISFACTION OF THE UTILITY OR OWNING AGENCY WITH THE COST OF ANY REQUIRED PROTECTION TO BE INCIDENTAL TO THE CONTRACT. IN THE EVENT A UTILITY LINE OR SERVICE IS UNEXPECTEDLY ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE AND THE UTILITY COMPANY OR AGENCY OF JURISDICTION. ANY SUCH UTILITIES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO SERVICE IMMEDIATELY.

AIRPORT SECURITY

THE CONTRACTOR IS TO COORDINATE GATE SECURITY THROUGH THE RESIDENT ENGINEER WITH THE AIRPORT MANAGEMENT. AIRPORT SECURITY SHALL BE MAINTAINED AT ALL TIMES.

EXISTING BENCHMARK

BENCHMARK IS AS FOLLOWS:
 B.M.1 STEEL ROD SET IN 6" LOGS CAP
 ELEVATION 721.34
 LOCATION: 36.5 FEET EAST OF RT. 131 (GREEN BAY RD.), 230 FEET SOUTH OF SUDWARD ST., 101 FEET NORTH OF CENTER ST.
 COORDINATES: N 2094502.438 E 1107324.042



**SITE PLAN AND
 GENERAL NOTES**

**REHABILITATE AND WIDEN TAXIWAY S
 BETWEEN TAXIWAY S1 AND S2**
 IDA No. UGN-4034 AIP No. 3-17-0105-B48



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Hanson No. 10A0035D
 Filename 03-SITE PLAN.DWG
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 Date OCTOBER 29, 2010

LAYOUT	SJM	10/15/10
DRAWN	SJM	10/15/10
REVIEWED	RMH	10/28/10



**WAUKEGAN REGIONAL AIRPORT
 WAUKEGAN PORT DISTRICT**
 3580 North McAree Road
 Waukegan, Illinois 60087
 Telephone: 847.244.0066
 Fax: 847.244.3813

DATE	REVISION

CONSTRUCTION AND SAFETY NOTES

SEQUENCE OF CONSTRUCTION

TO MINIMIZE DISRUPTIONS TO AIRPORT OPERATIONS, CONSTRUCTION OPERATIONS MUST BE CONTROLLED THROUGHOUT THE PROJECT'S DURATION AND WORK MUST BE COMPLETED EXPEDITIOUSLY. THE CONTRACTOR IS TO PREPARE AND FOLLOW A STAGING PLAN THAT COORDINATES HIS WORK WITH THE WORK OF HIS SUBCONTRACTORS AND THE WORK OF OTHER CONTRACTORS ON-FIELD. THIS STAGING PLAN MUST BE SATISFACTORY TO THE PROJECT ENGINEER AND THE AIRPORT DIRECTOR. THE CONTRACTOR SHALL EXPEDITE WORK AT THOSE STAGES WHEN ACTIVE TAXIWAYS, APRONS, ROADWAYS OR PARKING LOTS MUST BE CLOSED TO MINIMIZE THE LENGTH OF TIME THAT AIRPORT OPERATIONS ARE RESTRICTED.

LATHING AND WARNING TAPE

THE PROJECT WILL REQUIRE THE PLACEMENT OF LATHING AND WARNING TAPE TO DELINEATE THE CONSTRUCTION AREA. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE, PLACE AND MAINTAIN LATHING AND WARNING TAPE SHOWN ON DETAIL A, THIS SHEET, AND AS DIRECTED BY THE RESIDENT ENGINEER AND THE AIRPORT DIRECTOR. THE CONTRACTOR WILL FURNISH, PLACE, MAINTAIN AND RELOCATE THE LATHING AND WARNING TAPE AS REQUIRED. THE COST OF THESE ITEMS, AND THEIR MAINTENANCE, IS TO BE INCIDENTAL TO THE CONTRACT.

TEMPORARY BARRICADES ON AIRFIELD

THE PROJECT WILL REQUIRE THE PLACEMENT OF BARRICADES TO DELINEATE PORTIONS OF THE CONSTRUCTION AREA AND FOR TEMPORARY CLOSURES OF ACTIVE TAXIWAYS AND APRONS. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH, PLACE AND MAINTAIN BARRICADES AS SHOWN IN DETAIL B, THIS SHEET, AND AS DIRECTED BY THE RESIDENT ENGINEER AND AIRPORT DIRECTOR. THE COST OF THESE ITEMS, AND THEIR MAINTENANCE, IS TO BE INCIDENTAL TO THE CONTRACT. ANY WORK THAT REQUIRES PORTIONS OF AN ACTIVE TAXIWAY OR APRON TO BE CLOSED MUST BE COMPLETED EXPEDITIOUSLY TO MINIMIZE DISRUPTION TO AIRCRAFT OPERATIONS.

VEHICULAR TRAFFIC CONTROL

THE CONTRACTOR SHALL ERECT AND MAINTAIN, AT NO COST TO THE CONTRACT, DIRECTIONAL AND INFORMATIONAL SIGNS FOR THE CONTRACTOR'S ACCESS ROUTES AT THE EXISTING CONSTRUCTION ENTRANCE AND FOR THE CONTRACTOR'S ROUTE WITHIN THE AIRPORT OPERATIONS AREA, AS NOTED ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.

CONTRACTOR SHALL PROVIDE, INSTALL AND REMOVE ALL TRAFFIC CONTROL ITEMS WHEN CONSTRUCTION ACTIVITIES ARE WITHIN 15 FEET OF ANY ACTIVE ROADWAY EDGE OR AS REQUIRED BY THE SITE PLAN. COST OF THIS WORK IS TO BE INCIDENTAL TO THE CONTRACT.

AIRFIELD OPERATIONAL SAFETY DURING CONSTRUCTION

THE CONTRACTOR SHALL REMAIN WITHIN THE CONSTRUCTION LIMITS LINE SHOWN IN THE PLANS. WHEN OUTSIDE THESE LIMITS, ALL CONTRACTOR ACTIVITIES SHALL REMAIN MORE THAN 250 FEET FROM THE RUNWAY CENTERLINE AND 1000 FEET FROM THE RUNWAY END. FOR WORK NEAR TAXIWAYS AND APRONS, THE CONTRACTOR'S PERSONNEL AND EQUIPMENT MUST REMAIN AT LEAST 653 FEET FROM ACTIVE TAXIWAYS AND 44.5 FEET FROM ACTIVE T-HANGER TAXIWAYS AND TEN (10) FEET FROM ACTIVE APRONS. WHEN CONSTRUCTION OPERATIONS MUST BE CONDUCTED WITHIN THESE SEPARATIONS, THE PAVEMENT MUST BE CLOSED TO AIRCRAFT ACTIVITY BY THE CONTRACTOR BY PROVIDING TEMPORARY BARRICADES AS SHOWN IN THE PLANS AND IN THE CASE OF RUNWAY PAVEMENTS, CLOSED RUNWAY MARKERS. CLOSING OF RUNWAYS WILL NOT BE PERMITTED UNDER THE CONSTRUCTION PROJECT.

WHEN IT IS NECESSARY FOR CONSTRUCTION VEHICLES TO OPERATE ON OR WITHIN THESE LIMITS, THE RUNWAY, TAXIWAYS OR APRON MUST BE CLOSED. WHEN HAUL VEHICLES ARE PERMITTED TO CROSS ACTIVE TAXIWAYS, THE CONTRACTOR WILL PROVIDE POSITIVE CONTROL OF CONSTRUCTION VEHICLES USING RADIO-EQUIPPED FLAGGERS. CONTRACTOR SHALL ESTABLISH AND MAINTAIN RADIO CONTACT WITH AIR TRAFFIC CONTROL TOWER (ATCT) IN ACCORDANCE WITH ATCT REQUIREMENTS. ALL CONTRACTOR'S EQUIPMENT USED IN ACTIVE AIRPORT OPERATIONS AREAS SHALL BE EQUIPPED WITH A FAA-STANDARD FLAG, AS RETEREBUCED IN FAA AC 150/5370-2. CURRENT ISSUE. AIRCRAFT SHALL HAVE THE RIGHT-OF-WAY. CONSTRUCTION VEHICLES SHALL NOT CROSS AN ACTIVE RUNWAY. THE COST OF ALL TRAFFIC CONTROL, BOTH WITHIN AND OUTSIDE OF AIRPORT OPERATIONS AREAS, IS TO BE INCIDENTAL TO THE CONTRACT.

THE CONTRACTOR SHALL KEEP ALL OF HIS EQUIPMENT AND PERSONNEL AT LEAST 15 FEET FROM THE EDGE OF ANY ACTIVE ROADWAY OR AUTO PARKING PAVEMENT. WHEN HIS ACTIVITIES REQUIRE WORKING WITHIN 15 FEET OF THE ROAD/PAVEMENT EDGE, THE CONTRACTOR SHALL PROVIDE FOR TRAFFIC CONTROL IN ACCORDANCE WITH IDOT SPECIFICATIONS (HIGHWAY STANDARDS).

OPEN TRENCHES, EXCAVATIONS, AND STOCKPILED MATERIAL AT THE CONSTRUCTION SITE SHALL BE DELINEATED WITH THE USE OF BARRICADES DURING HOURS OF RESTRICTED VISIBILITY AND/OR DARKNESS. NO OPEN TRENCHES SHALL BE ALLOWED WITHIN THE RUNWAY SAFETY AREA (RSA) OR THE TAXIWAY SAFETY AREA (TSA) WHEN THE RUNWAY OR TAXIWAY IS OPEN TO AIR TRAFFIC (INCLUDING OVERTURNING). THE RSA IS DEFINED AS 250 FEET FROM THE RUNWAY CENTERLINE AND 1000 FEET FROM THE END OF THE RUNWAY. THE TSA IS DEFINED AS 325 FEET FROM THE TAXIWAY CENTERLINE AND 1200 FEET FROM THE END OF THE TAXIWAY. THE TSA IS REQUIRED TO BE 653 FEET FROM THE TAXIWAY CENTERLINE AND 1000 FEET FROM THE END OF THE TAXIWAY. THE CONTRACTOR SHALL NOT OPERATE ANY CONSTRUCTION VEHICLES OR EQUIPMENT ON, OVER OR ADJACENT TO EARTH GRADE OR EARTH GRADE WITHIN THE RSA OR TSA. SHALL BE REBUILT WHEN THE RUNWAY OR TAXIWAY IS OPEN TO AIR TRAFFIC. THE CONTRACTOR WILL HAVE STEEL PLATES ON-SITE TO ALLOW FOR THE RAPID COVERING OF TRENCHES OR EARTH DROPS IN THE EVENT OF UNEXPECTED WORK STOPPAGES FOR WEATHER OR AIRPORT EMERGENCIES.

WHEN NOT IN USE AND DURING NONWORKING HOURS, CONTRACTOR'S EQUIPMENT SHALL BE PARKED WITHIN THE CONTRACTOR'S EQUIPMENT STORAGE AND PARKING AREAS. THE EQUIPMENT STORAGE AND PARKING AREAS ARE TO BE LOCATED AS SHOWN ON THE STAGING PLAN. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING THE CONSTRUCTION ENTRANCE IN GOOD CONDITION. THE COST OF MAINTAINING THE CONSTRUCTION ENTRANCE IS TO BE INCIDENTAL TO THE CONTRACT.

AT NO TIME SHALL THE CONTRACTOR OPERATE OR PARK EQUIPMENT SO AS TO OBSTRUCT AN ACTIVE RUNWAY APPROACH SURFACE.

BEFORE REOPENING TEMPORARILY CLOSED RUNWAYS, TAXIWAYS OR ROADWAYS, THE CONTRACTOR SHALL INSPECT AND CLEAN, AS NECESSARY, THE PAVEMENT TO ASSURE THAT NO MATERIALS OR OBJECTS THAT MAY DAMAGE AIRCRAFT OR VEHICLES REMAIN. ANY REQUIRED CLEANING SHALL BE TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AIRPORT OWNER AND IS INCIDENTAL TO THE CONTRACT.

ALL CONTRACTOR EQUIPMENT IS LIMITED TO A HEIGHT OF 25 FEET.

THE AIRPORT OWNER WILL DE-ENERGIZE AIRPORT/RUNWAY NAVIGAIDS, AND AIRFIELD LIGHTING POWER AND CONTROL CIRCUITS WHEN REQUIRED BY THE CONTRACTOR'S ACTIVITIES. THE CONTRACTOR SHALL NOT PROCEED WITH FURTHER WORK UNTIL AFTER THE REQUIRED CHANGES TO THE AIRPORT POWER AND CONTROL CIRCUITS HAVE BEEN MADE BY THE AIRPORT OWNER.

FAILURE TO USE THESE PRESCRIBED PROCEDURES OR ADHERE TO THE SAFETY REQUIREMENTS WILL RESULT IN THE SUSPENSION OF WORK.

NOTIFICATIONS BY CONTRACTOR

THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AND AIRPORT OWNER 5 DAYS IN ADVANCE OF THE CONTRACTOR'S CLOSING OF ACTIVE RUNWAYS, TAXIWAYS AND APRONS. THE DATE, TIME AND SCHEDULED DURATION OF THE CLOSING MUST BE APPROVED BY THE RESIDENT ENGINEER AND THE AIRPORT OWNER. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AND AIRPORT OWNER 72 HOURS IN ADVANCE OF THE CONTRACTOR'S CLOSING OF OTHER ACTIVE ROADWAYS, AIRFIELD OR ROADWAY LIGHTING CIRCUITS, OR OTHER AIRPORT FACILITIES.

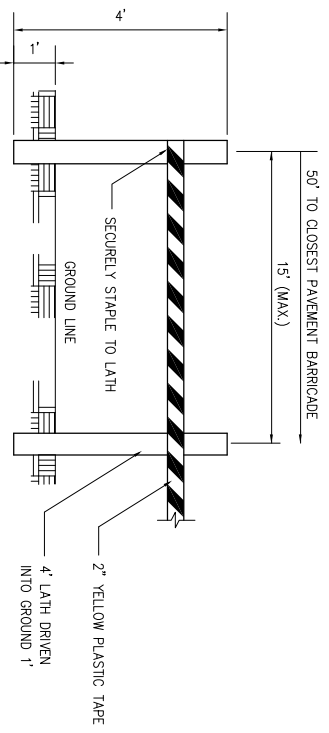
CONTRACTOR'S USE OF SITE

THE CONTRACTOR SHALL NOT OPERATE WITHIN, ENCLOSED UPON OR OBSTRUCT AIRPORT OPERATIONAL AREAS INCLUDING ACTIVE RUNWAY, TAXIWAYS AND APRON SAFETY AREAS, OBJECT AND OBSTACLE FREE ZONES, RUNWAY PROTECTION ZONES AND AIRPORT IMAGINARY SURFACES AS DEFINED IN FEDERAL AVIATION REGULATIONS (FAR) PART 77, "OBJECTS AFFECTING NAVIGABLE AIRSPACE".

THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF THE WORK AREA PRIOR TO BEGINNING WORK AT A NEW LOCATION.

UTILITY OUTAGES AND SHUTDOWNS

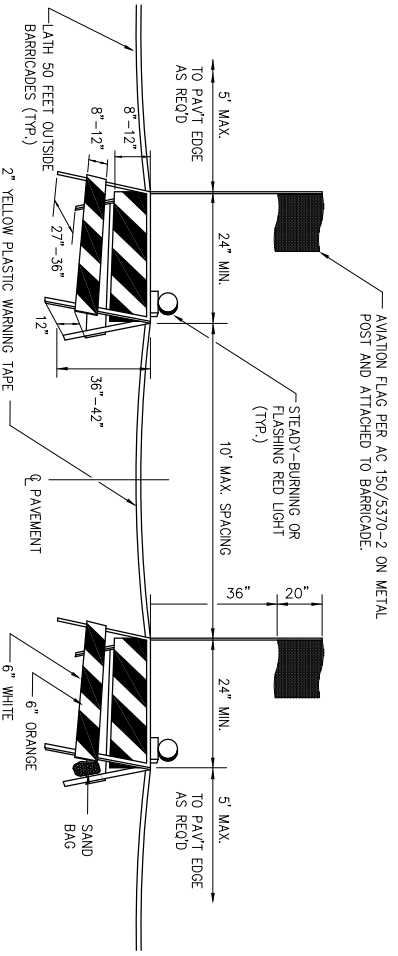
THE CONTRACTOR SHALL PROVIDE 72 HOURS PRIOR NOTICE OF ANY OUTAGES OR SHUTDOWNS TO THE OWNER AND THE AGENCY OWNING THE AFFECTED UTILITY. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY CONNECTIONS OR OTHER MEASURES AS MAY BE REQUIRED TO MAINTAIN SERVICE AS MAY BE REQUIRED BY THE OWNING AGENCY AT NO COST TO THE OWNER.



MATERIALS ARE TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION. COST OF MATERIALS, INSTALLATION, RELOCATION AND MAINTENANCE OF LATHING AND WARNING TAPE IS TO BE INCIDENTAL TO THE CONTRACT.

DETAIL A LATHING AND WARNING TAPE

NTS



BARRICADES ARE TO BE OF IDOT TYPE I, A STEADY-BURNING OR FLASHING RED LIGHT FACING PASSING TRAFFIC IS TO BE MOUNTED ABOVE THE TOP OF EACH BARRICADE FRAME. THE BARRICADE IS TO BE STABILIZED FROM WIND BY SANDBAGS PLACED ON THE FRAME OR OTHER METHODS APPROVED BY THE RESIDENT ENGINEER. NO PART OF THE REFLECTORIZED PORTION OF THE BARRICADE IS TO BE OBSTRUCTED IN ANY MANNER. COST OF FURNISHING, INSTALLING, RELOCATING, MAINTAINING and REMOVING BARRICADES IS TO BE INCIDENTAL TO THE CONTRACT.

DETAIL C PAVEMENT BARRICADES

NTS

CONSTRUCTION AND SAFETY NOTES AND DETAILS

REHABILITATE AND WIDEN TAXIWAY S BETWEEN TAXIWAY S1 AND S2
 IDA No. UGN-4034 AIP No. 3-17-0105-B48

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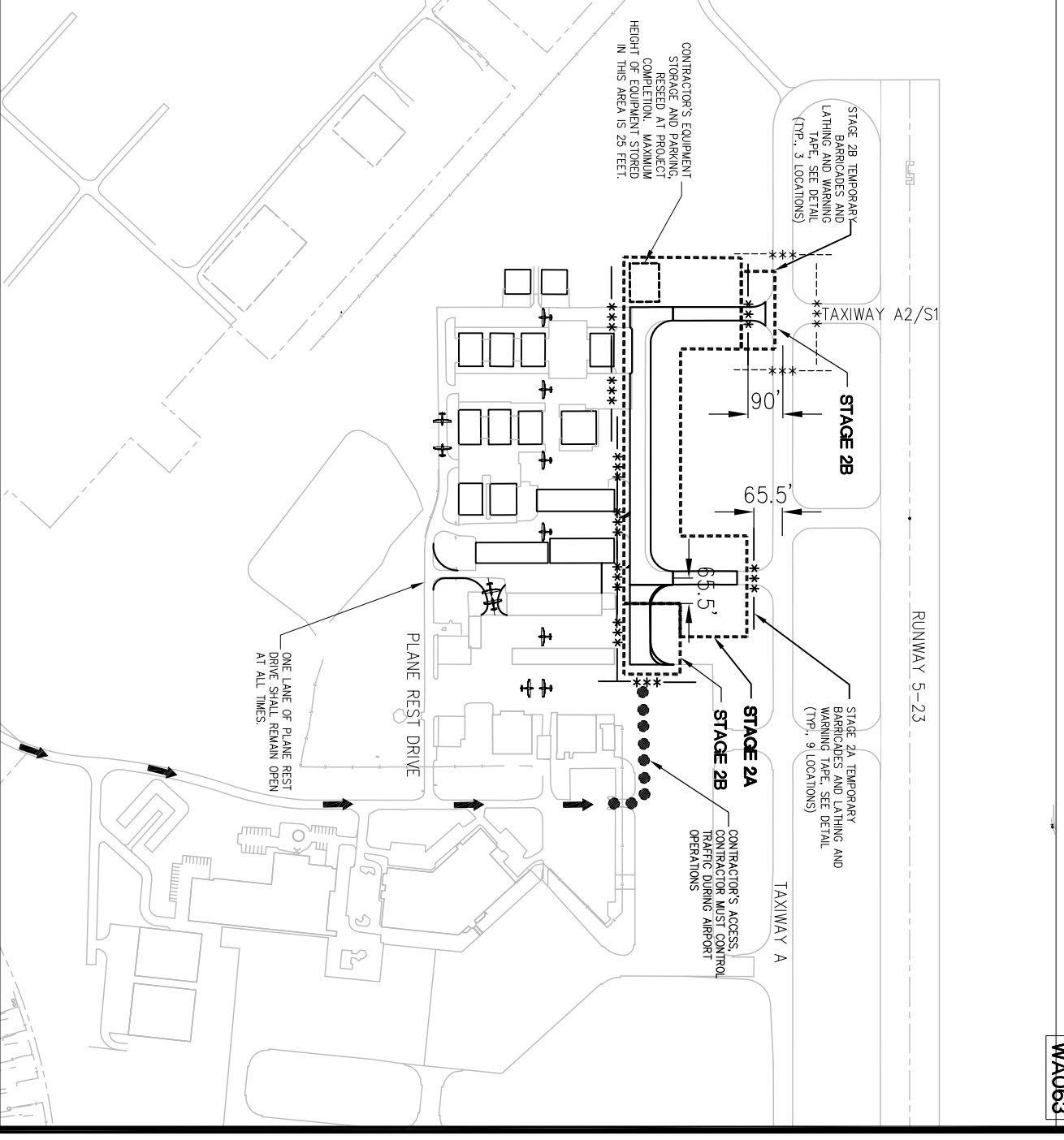
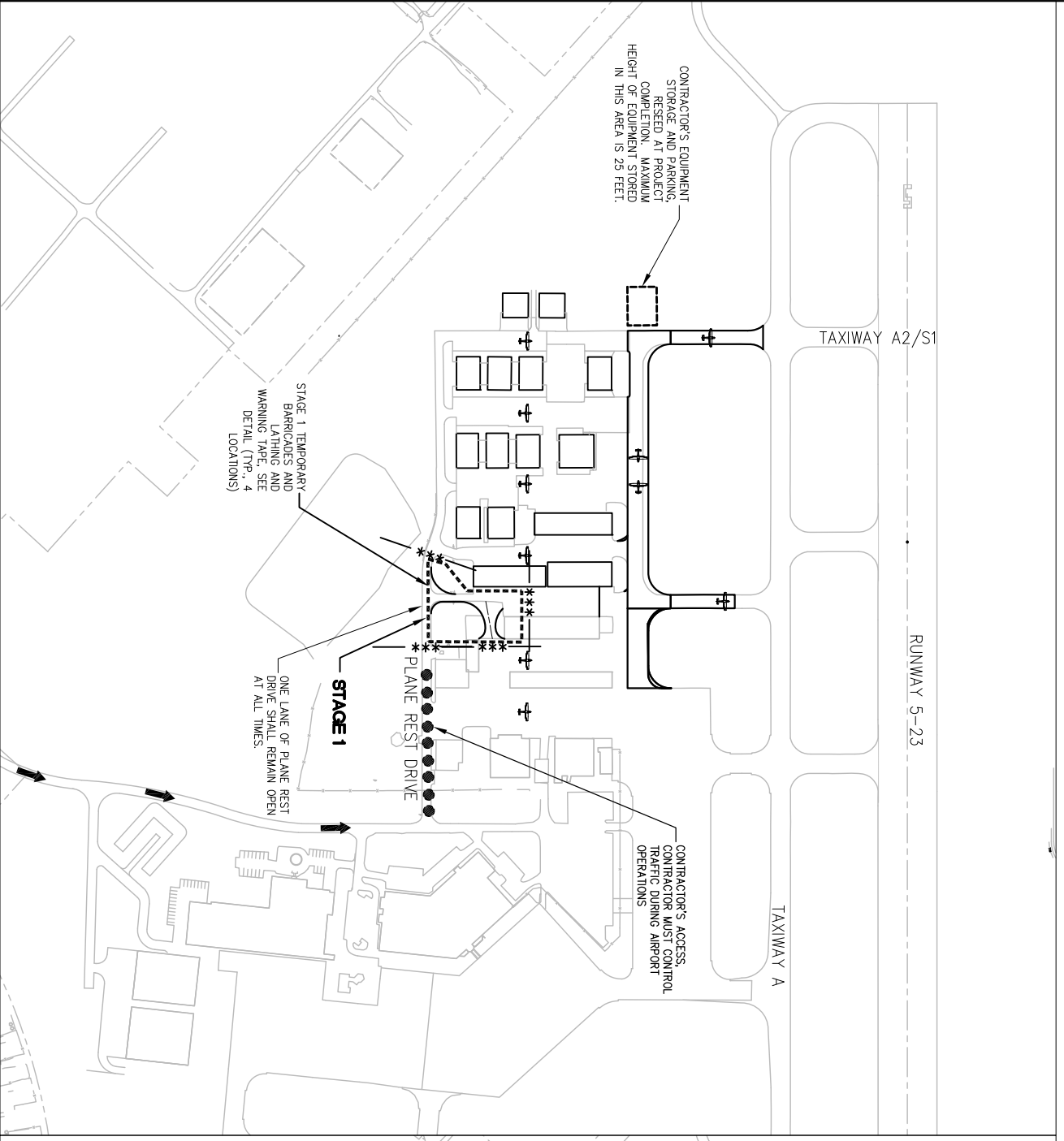
Hanson Professional Services Inc.
 815 Commerce Drive, Suite 200
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Hanson No.	10A0035D		
Filename	04-SAFETY NOTES.DWG		
Scale	N/A		
Date	OCTOBER 29, 2010		
LAYOUT	LDH	12/30/10	
DRAWN	LDH	12/30/10	
REVIEWED	RMH	10/28/10	

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 WAUKEGAN PORT DISTRICT

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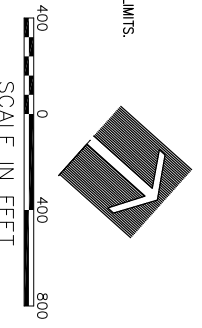
DATE	REVISION



- NOTES:**
- ALL CONTRACTOR ACTIVITIES SHALL TAKE PLACE WITHIN CONSTRUCTION LIMIT LINES AS SHOWN.
 - ALL CONSTRUCTION EQUIPMENT WILL BE LIMITED TO A HEIGHT OF 25 FEET UNLESS PRIOR APPROVAL GIVEN BY THE ENGINEER.
 - CONTRACTOR'S EQUIPMENT MAY NOT DISRUPT FLIGHT OPERATIONS ON RUNWAY 5-23 AT ANY TIME.
 - CONTRACTOR'S EQUIPMENT MAY NOT DISRUPT FLIGHT OPERATIONS ON TAXIWAY A, B, OR C DURING STAGE 1.
 - SEE CONSTRUCTION AND SAFETY NOTES, SHEET 4.
- THE FOLLOWING ITEMS ARE TO BE COMPLETED IN STAGE 1:**
- CONSTRUCT TEMPORARY TAXILANE AND WIDEN PAVEMENTS ALONG PLANE REST DRIVE TO ALLOW FOR AIRCRAFT ACCESS.
 - INSTALL TEMPORARY CONSTRUCTION SIGNS.
 - INSTALLATION OF STORM SEWER
 - PAVEMENT MARKING
 - TOPSOILING, SEEDING AND MULCHING

- NOTES:**
- ALL CONTRACTOR ACTIVITIES SHALL TAKE PLACE WITHIN CONSTRUCTION LIMIT LINES AS SHOWN.
 - ALL CONSTRUCTION EQUIPMENT WILL BE LIMITED TO A HEIGHT OF 25 FEET UNLESS PRIOR APPROVAL GIVEN BY THE ENGINEER.
 - CONTRACTOR'S EQUIPMENT MAY NOT DISRUPT FLIGHT OPERATIONS ON RUNWAY 5-23 AT ANY TIME.
 - CONTRACTOR'S EQUIPMENT MAY NOT DISRUPT FLIGHT OPERATIONS ON TAXIWAY A, B, OR C DURING STAGE 2A.
 - CONSTRUCTION OF STAGE 2A MUST BE COMPLETED BEFORE STAGE 2B.
 - SEE CONSTRUCTION AND SAFETY NOTES, SHEET 4.
- THE FOLLOWING ITEMS ARE TO BE COMPLETED IN STAGE 2A:**
- TAXIWAY S PAVEMENT REMOVAL AND REPLACEMENT.
 - MILLING OF TAXIWAY S, S1 AND S2 TO BE OVERLAD IN STAGE 2A.
 - OVERLAY PAVEMENTS.
 - INSTALLATION OF STORM SEWER AND UNDERDRAN.
 - PAVEMENT MARKING.
 - TOPSOILING, SEEDING AND MULCHING.
 - REMOVE ACCESS TAXILANE.

- NOTES:**
- ALL CONTRACTOR ACTIVITIES SHALL TAKE PLACE WITHIN CONSTRUCTION LIMIT LINES AS SHOWN.
 - ALL CONSTRUCTION EQUIPMENT WILL BE LIMITED TO A HEIGHT OF 25 FEET UNLESS PRIOR APPROVAL GIVEN BY THE ENGINEER.
 - CONTRACTOR'S EQUIPMENT MAY NOT DISRUPT FLIGHT OPERATIONS ON RUNWAY 5-23 AT ANY TIME.
 - CONTRACTOR'S EQUIPMENT MAY NOT DISRUPT FLIGHT OPERATIONS ON TAXIWAY B OR C DURING STAGE 2B.
 - CONSTRUCTION OF STAGE 2B WILL BE LIMITED TO 2 CALENDAR DAYS.
 - SEE CONSTRUCTION AND SAFETY NOTES, SHEET 4.
- THE FOLLOWING ITEMS ARE TO BE COMPLETED IN STAGE 2B:**
- MILLING OF PORTION OF TAXIWAY S1 TO BE OVERLAD IN STAGE 2B.
 - OVERLAY PAVEMENTS.
 - PAVEMENT MARKING.
 - TOPSOILING, SEEDING AND MULCHING WITHIN STAGE 2B LIMITS.



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CONSTRUCTION STAGING PLAN

REHABILITATE AND WIDEN TAXIWAY S BETWEEN TAXIWAY S1 AND S2
 IDA No. UGN-4034 AIP No. 3-17-0105-B48

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Hanson No.	10A0035D	
Filename	05-STAGING PLAN.DWG	
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REVIEWED	RMH	10/28/10

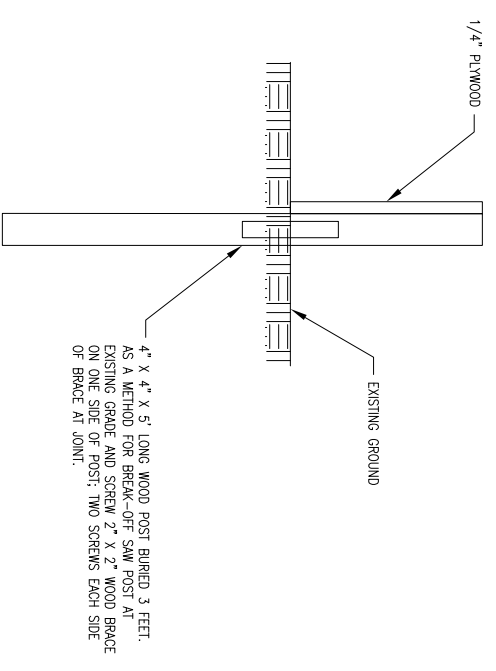
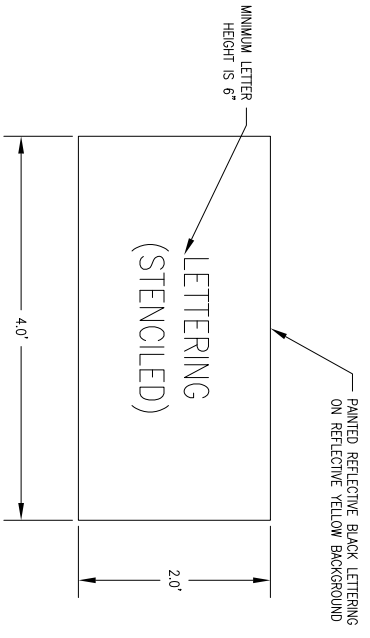
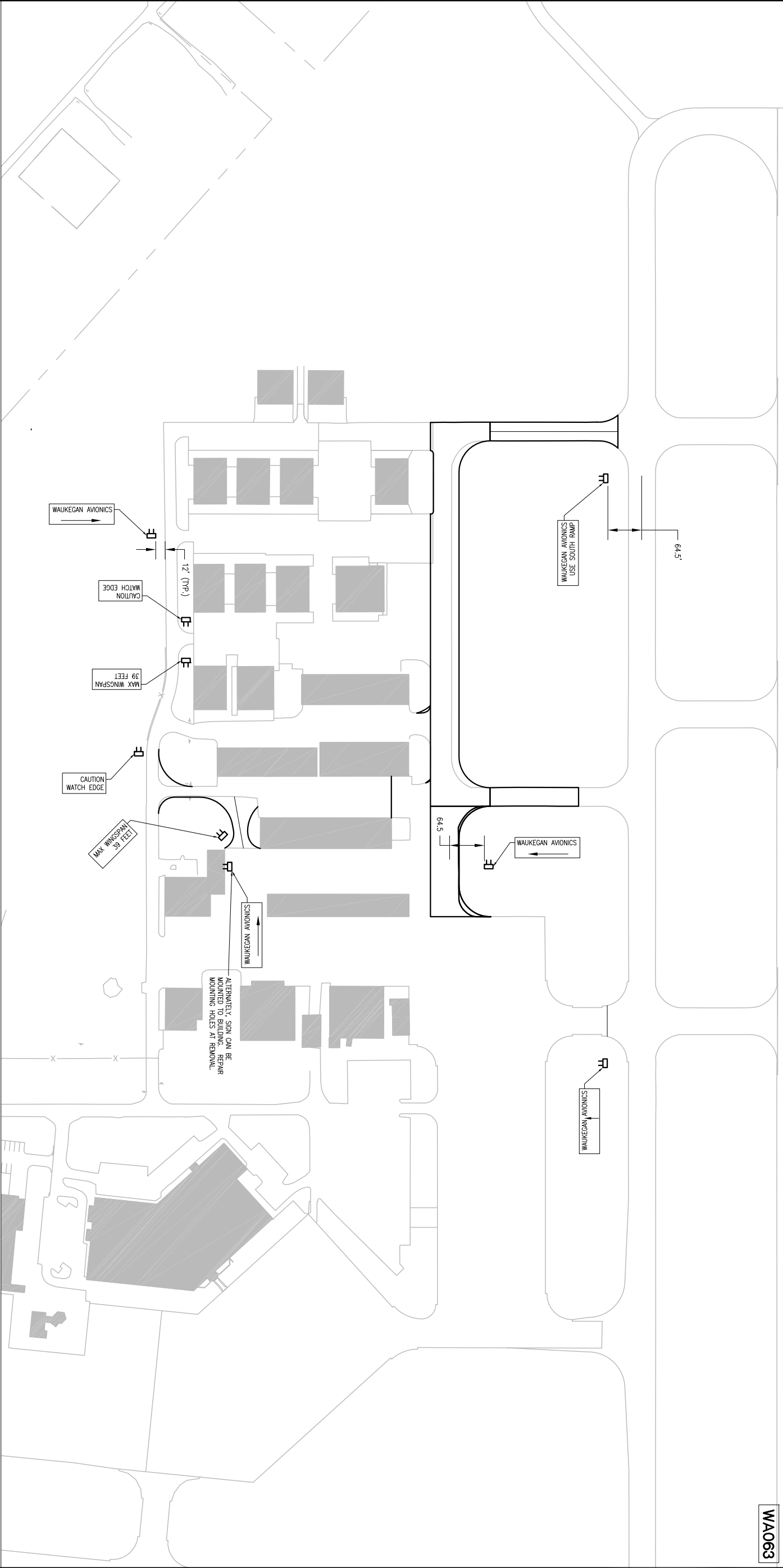


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NOTE:
 ALL WORK PAID UNDER ITEM 800934.

6 TEMPORARY CONSTRUCTION SIGNS AND DEATILS

REHABILITATE AND WIDEN TAXIWAY S BETWEEN TAXIWAY S1 AND S2
 IDA No. UGN-4034 AIP No. 3-17-0105-B48

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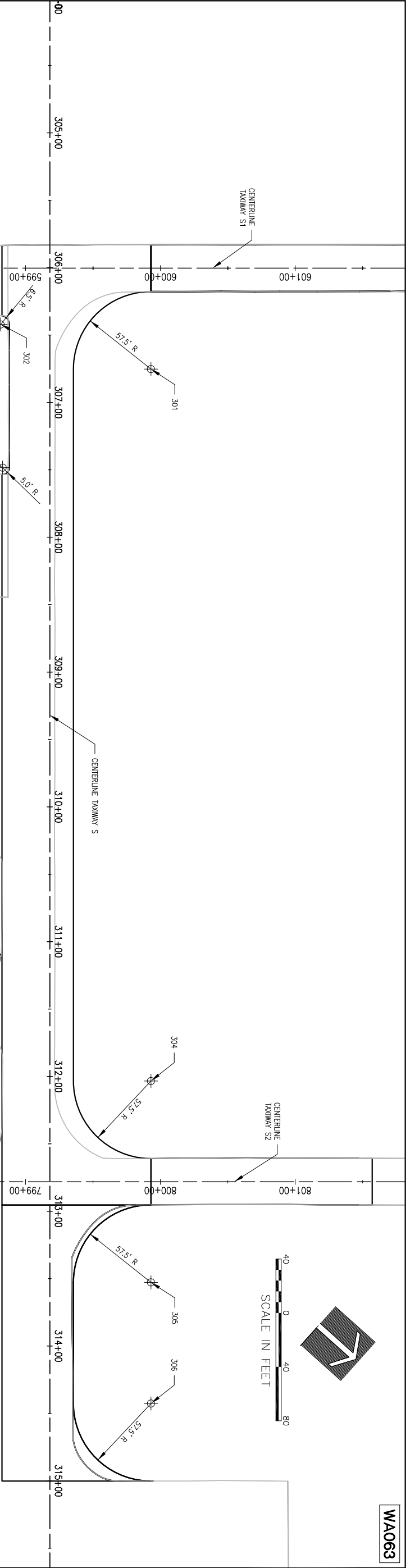
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DRAWN	LDH	2/23/11
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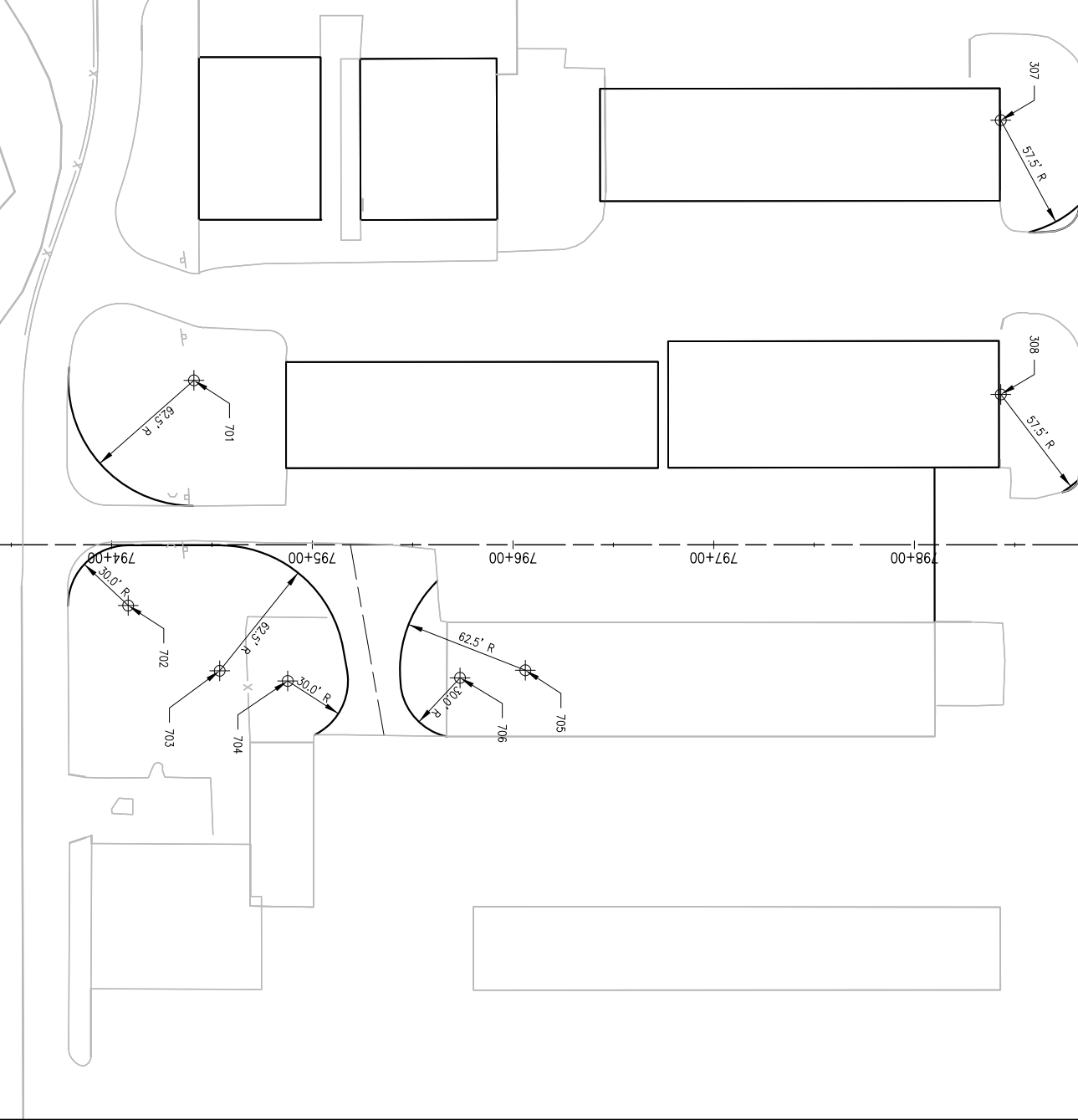


ALIGNMENT DATA

RUNWAY/TAXIWAY	DESCRIPTION	STATION	PROJECT COORDINATES	
			NORTHING	EASTING
TAXIWAY S	BEGINNING OF ALIGNMENT 300 END OF ALIGNMENT 300	304+00 317+00	2094423.92 2095093.32	1108605.76 1109574.07
TAXIWAY S1	BEGINNING OF ALIGNMENT 600 END OF ALIGNMENT 600	593+50 606+00	2093936.55 2094867.62	1109134.02 1108299.98
TAXIWAY S2	BEGINNING OF ALIGNMENT 800 END OF ALIGNMENT 800	793+00 804+00	2094351.55 2095170.89	1109672.23 1108938.28

CURVE DATA

CURVE #	CENTER	P.C.	P.T.	CURVE #	CENTER	P.C.	P.T.
302	306+42.13 36.5' RT (6.5' RADIUS)	306+35.70 35.5' RT	306+42.13 30.0' RT	702	794+08.27 30.25' RT (30.0' RADIUS)	793+78.27 30.42' RT	794+08.27 0.25' RT
303	307+48.38 35.0' RT (5.0' RADIUS)	307+48.38 30.0' RT	307+53.38 35.0' RT	703	794+53.87 62.75' RT (62.5' RADIUS)	794+53.87 0.25' RT	795+15.42 51.90' RT
304	312+03.42 75.0' LT (57.5' RADIUS)	312+03.42 17.5' LT	312+60.92 75.0' LT	704	794+87.77 67.82' RT (30.0' RADIUS)	795+17.31 62.62' RT	795+01.33 94.59' RT
305	313+52.78 75.0' LT (57.5' RADIUS)	312+95.28 75.0' LT	313+52.78 17.5' LT	705	796+06.14 62.5' RT (62.5' RADIUS)	795+62.29 17.97' RT	795+44.59 73.35' RT
306	314+42.66 75.0' LT (57.5' RADIUS)	314+42.66 17.5' LT	315+00.16 75.0' LT	706	795+33.61 66.25' RT (30.0' RADIUS)	795+44.83 74.72' RT	795+66.94 95.50' RT
307	310+66.71 75.0' RT (57.5' RADIUS)	311+08.97 36.0' RT	311+22.46 60.89' RT				
308	312+03.30 75.0' LT (57.5' RADIUS)	312+46.08 36.58' RT	312+51.92 44.31' RT				



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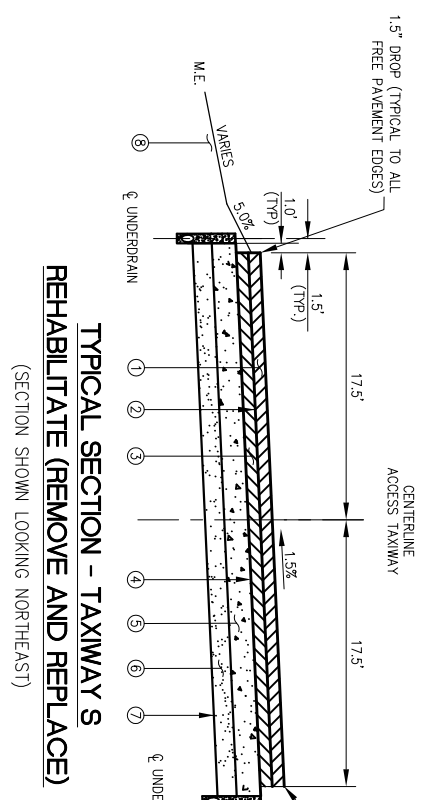


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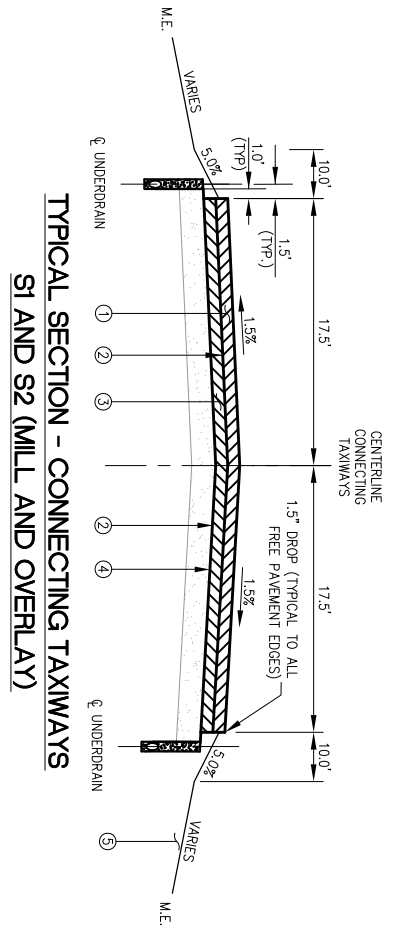
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Scale	1"=40'
Date	OCTOBER 29, 2010
LAYOUT	LDH 12/30/10
DRAWN	LDH 12/30/10
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ALIGNMENT AND CURVE DATA
REHABILITATE AND WIDEN TAXIWAY S BETWEEN TAXIWAY S1 AND S2
 IDA No. UGN-4034 AIP No. 3-17-0105-B48

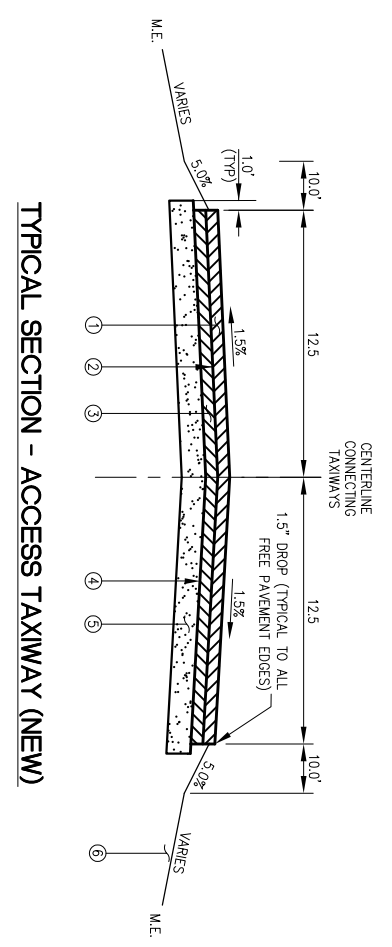


- ① PROPOSED 1 1/2 INCH BITUMINOUS SURFACE COURSE, ITEM AR401613
- ② PROPOSED BITUMINOUS TACK COAT, ITEM AR603510
- ③ PROPOSED 4 1/2 INCH BITUMINOUS BASE COURSE, ITEM AR403613
- ④ PROPOSED BITUMINOUS PRIME COAT, ITEM AR602510
- ⑤ PROPOSED 10 INCH CRUSHED AGGREGATE BASE COURSE, ITEM AR209610
- ⑥ PROPOSED 4 INCH DRAINAGE LAYER, ITEM AR800928
- ⑦ PROPOSED SEPARATION FABRIC, ITEM AR156513
- ⑧ PROPOSED 4 INCH TOPSOIL, ITEM AR905510 AND AR905520



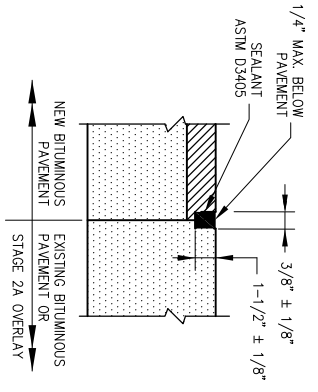
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- ① PROPOSED 1 1/2 INCH BITUMINOUS SURFACE COURSE, ITEM AR401613
- ② PROPOSED BITUMINOUS TACK COAT, ITEM AR603510
- ③ PROPOSED 1 1/2 INCH BITUMINOUS BASE COURSE, ITEM AR403613
- ④ PROPOSED CRACK CONTROL MATERIAL, ITEM AR800967
- ⑤ PROPOSED 4 INCH TOPSOIL, ITEM AR905510 AND AR905520



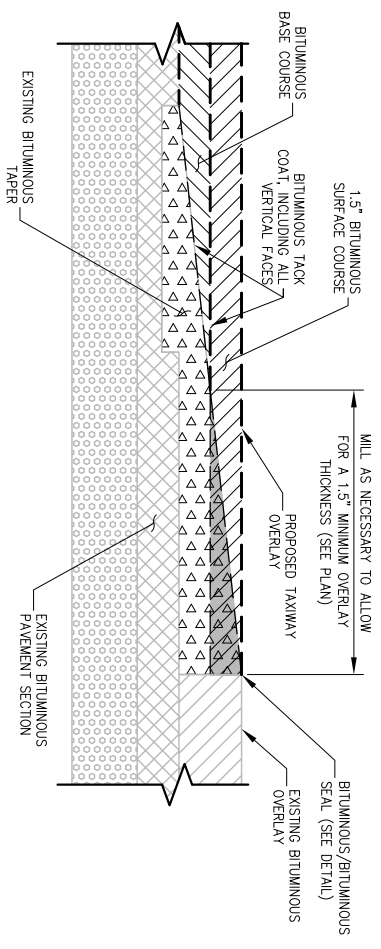
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- ② PROPOSED BITUMINOUS TACK COAT, ITEM AR603510
- ③ PROPOSED 2 1/2 INCH BITUMINOUS BASE COURSE, ITEM AR403613
- ④ PROPOSED BITUMINOUS PRIME COAT, ITEM AR602510
- ⑤ PROPOSED 10 INCH CRUSHED AGGREGATE BASE COURSE, ITEM AR209610
- ⑥ PROPOSED 4 INCH TOPSOIL, ITEM AR905510 AND AR905520



NOTE:
 ALL JOINT SEALING TO BE PAID UNDER SAW AND SEAL BITUMINOUS JOINTS, ITEM AR401660.

BITUMINOUS/BITUMINOUS SEAL



BITUMINOUS MILLING DETAIL

DATE	REVISION

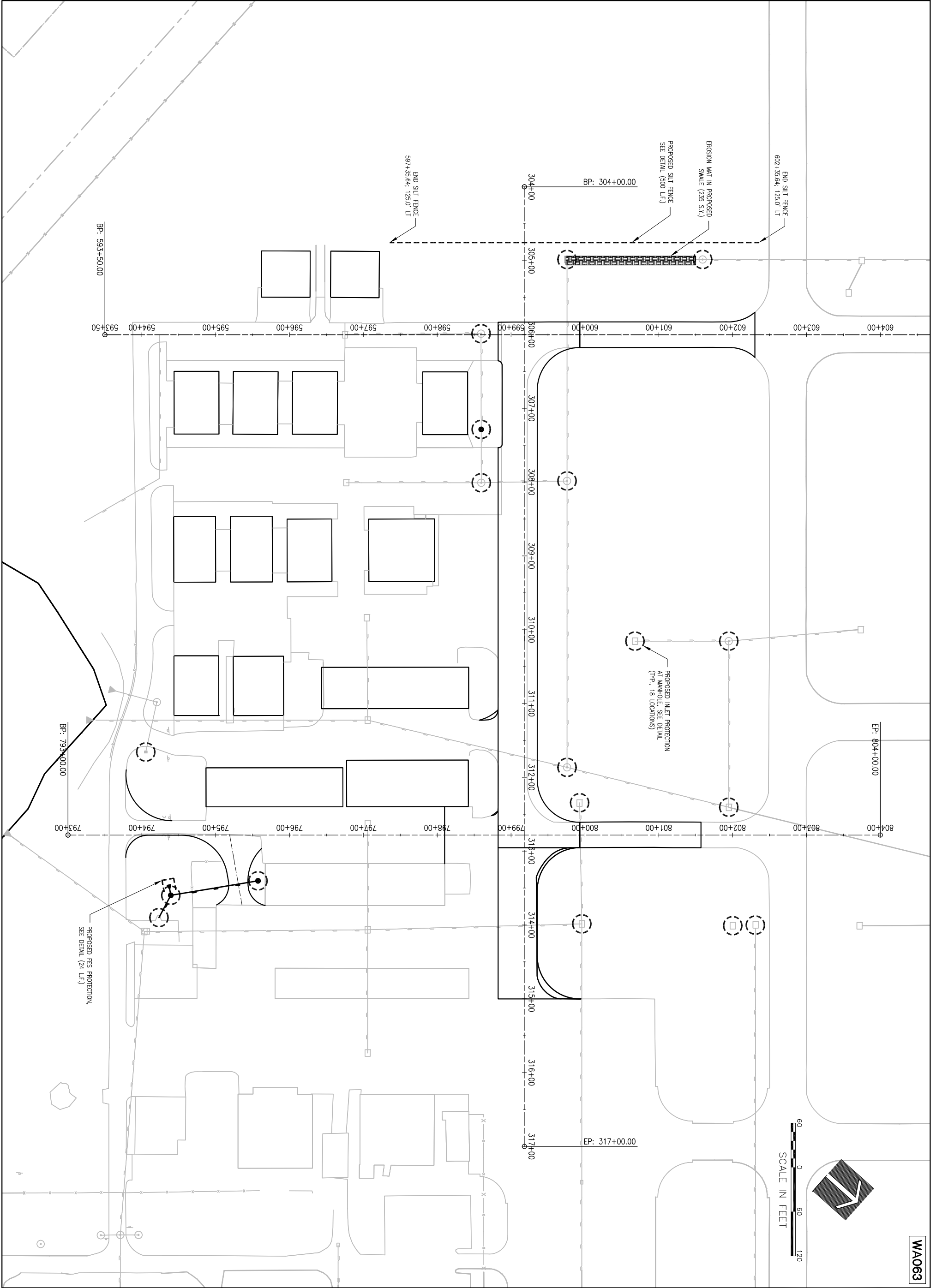


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Hanson No.	10A0035D	
Filename	08-TYPICAL SECTIONS.DWG	
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Date	OCTOBER 29, 2010	
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DRAWN	LDH	12/12/10
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TYPICAL SECTIONS
REHABILITATE AND WIDEN TAXIWAY S BETWEEN TAXIWAY S1 AND S2
 IDA No. UGN-4034 AIP No. 3-17-0105-B48



WA063

9 STORM WATER POLLUTION PREVENTION PLAN
 REHABILITATE AND WIDEN TAXIWAY S BETWEEN TAXIWAY S1 AND S2
 IDA No. UGN-4034 AIP No. 3-17-0105-B48

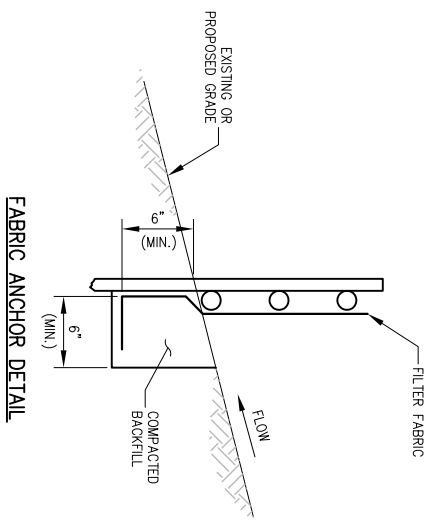
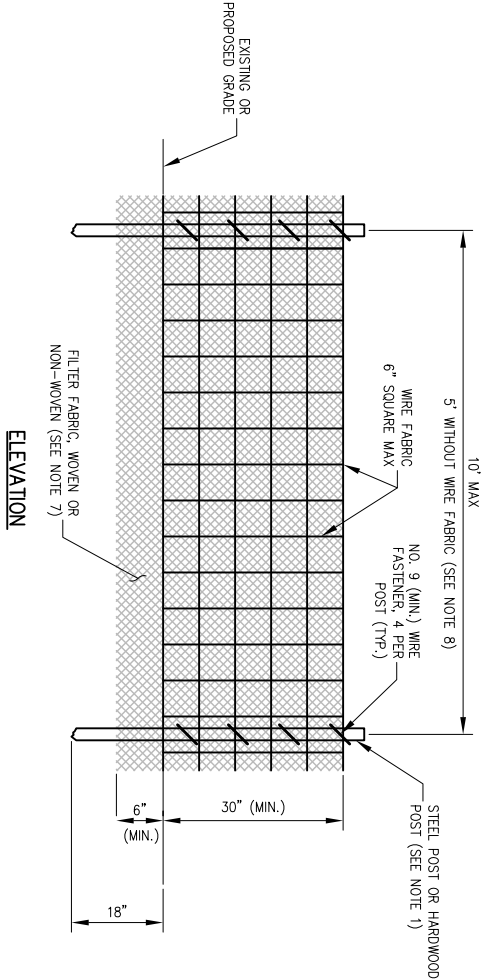
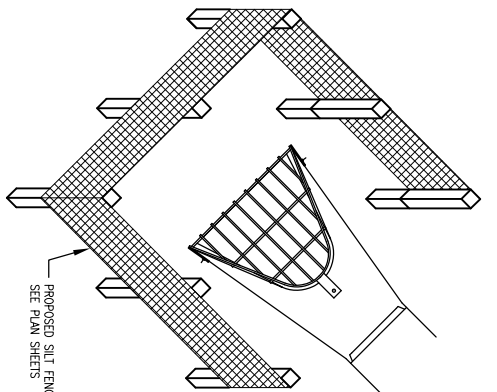


Hanson No.	10A0035D
09 SWPP PLAN.DWG	
1" = 60'	
Date	OCTOBER 29, 2010
LAYOIMS	3/19/10
DRAWN	3/19/10
REVIEWED	RMH 10/28/10



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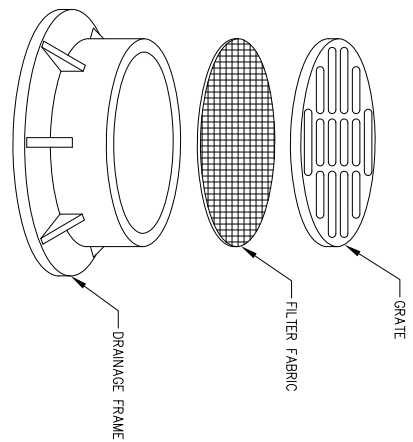
SILT FENCE PLACEMENT AT FLARED END SECTIONS (FES)

ELEVATION

FABRIC ANCHOR DETAIL

NOTES:

1. FENCE POST SHALL BE EITHER STEEL "T" LINE POST OR HARDWOOD POST WITH A MINIMUM SECTIONAL AREA OF 3.0 SQUARE INCHES.
2. TOP AND BOTTOM WIRE OF WIRE FABRIC SHALL BE MINIMUM GAGE NO. 9. INTERMEDIATE WIRES OF THE WIRE FABRIC SHALL BE MINIMUM GAGE NO. 11.
3. WIRE FABRIC SHALL BE SECURELY FASTENED TO FENCE POSTS WITH NO. 9 GAGE WIRE MINIMUM. FOUR (4) FASTENERS PER POST REQUIRED.
4. FILTER FABRIC SHALL BE SECURELY FASTENED TO WIRE FABRIC AND POSTS WITH TIES OR STAPLES SPACED AT 12" APART AT THE TOP, MIDDLE AND BOTTOM.
5. WHEN TWO SECTIONS OF FILTER FABRIC MEET, THEY SHALL BE OVERLAPPED BY 6" AND FOLDED AND ATTACHED TO THE WIRE FABRIC AT A POST.
6. FILTER FABRIC SHALL BE IN ACCORDANCE WITH SPECIAL PROVISIONS WITH EQUIVALENT OPENING SIZE OF AT LEAST 50 FOR NONWOVEN AND 50 FOR WOVEN.
7. WIRE FABRIC MAY BE OMITTED IF A MAXIMUM OF 5 FEET IS USED FOR POST-TO-POST SPACING.
8. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
9. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
10. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. PERIODIC INSPECTION SHALL BE PERFORMED AND REQUIRED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.
11. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED AND REPLACED WHEN BULGES DEVELOP IN THE SILT FENCE.
12. IF DEMATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE).
13. FENCE POSTS SHALL BE REMOVED WHEN DIRECTED AT PROJECT END.
14. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.



NOTES:

1. FILTER WRAP TO BE PLACED IN ALL MANHOLES AS SHOWN.
2. FABRIC SHALL BE IN CONFORMANCE WITH MATERIALS SPECIFIED FOR SILT FENCE.
3. FABRIC SHALL OVERLAY FRAME BY 2 INCHES (MINIMUM).
4. CONTRACTOR SHALL CLEAR DEBRIS AND SILT AS REQUIRED FROM FABRIC TO MAINTAIN DRAINAGE THROUGH THE STRUCTURE.
5. FABRIC SHALL REMAIN IN PLACE UNTIL TIERED AREAS HAVE DEVELOPED A MINIMUM OF 80% OF COVERAGE.
6. COST OF FILTER WRAP SHALL BE INCIDENTAL TO INLET PROTECTION.

INLET PROTECTION - DRAINAGE STRUCTURE FILTER WRAP

STORM WATER POLLUTION PREVENTION NOTES

GENERAL

THE CONTRACTOR SHALL IMPLEMENT ALL PROVISIONS OF THE CONTRACT DOCUMENTS TO ASSURE THAT STORM WATER POLLUTION PREVENTION ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY MANNER. SEDIMENTATION MUST NOT BE TRANSPORTED OFF THE CONSTRUCTION SITE. PERMANENT DRAINAGE FEATURES AND VEGETATIVE MEASURES SHALL BE PROVIDED AS SOON AS POSSIBLE.

THE MAINTENANCE OF ALL STORM WATER POLLUTION PREVENTION MEASURES IS INCIDENTAL TO THE ASSOCIATED ITEM.

POLLUTION PREVENTION MEASURES

THE CONTRACTOR SHALL BE REQUIRED TO IMPLEMENT AND MAINTAIN STORM WATER POLLUTION PREVENTION PRACTICES AND MEASURES PRIOR TO THE STRIPPING OF EXISTING VEGETATION WHERE EVER POSSIBLE AND AS SOON AS CONSTRUCTION PERMITS IN OTHER AREAS. POLLUTION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, INCLUDING THESE CONSTRUCTION PLANS, AND WITH STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, CURRENT ISSUE. THE CONTRACTOR SHALL ADJUST HIS OPERATIONS AND IMPLEMENT POLLUTION CONTROL MEASURES SO THAT NO RUNOFF FROM STRIPPED AREAS WILL LEAVE THE CONSTRUCTION SITE OTHER THAN THROUGH SEDIMENT TRAPS OR OTHER SUITABLE CONTROL MEASURES.

POLLUTION CONTROL ITEMS SHALL BE PROVIDED AS NOTED ON THE STORM WATER POLLUTION PREVENTION PLAN AND IN THE STORM WATER POLLUTION PREVENTION DETAILS AND AS DIRECTED BY THE ENGINEER. THE LIMITS OF SUCH MEASURES SHALL BE STATED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION. SHOULD WORK BE SUSPENDED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS DURING CONSTRUCTION, ADDITIONAL COMPENSATION FOR MEASURES EXCEEDING THE PLAN QUANTITIES WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR EACH ITEM.

THE CONTRACTOR IS TO MAINTAIN AND ADJUST, REPAIR OR REPLACE ALL POLLUTION PREVENTION MEASURES AS REQUIRED OR AS DIRECTED BY THE ENGINEER UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. MAINTENANCE OF POLLUTION CONTROL MEASURES IS TO BE PROVIDED AT NO ADDITIONAL COST TO THE CONTRACT.

ADDITIONAL STORMWATER POLLUTION PREVENTION MEASURES ARE EXISTING ON SITE LOCATED AT DRAINAGE FACILITIES AND ALONG THE PROPERTY LINE.

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DATE	REVISION



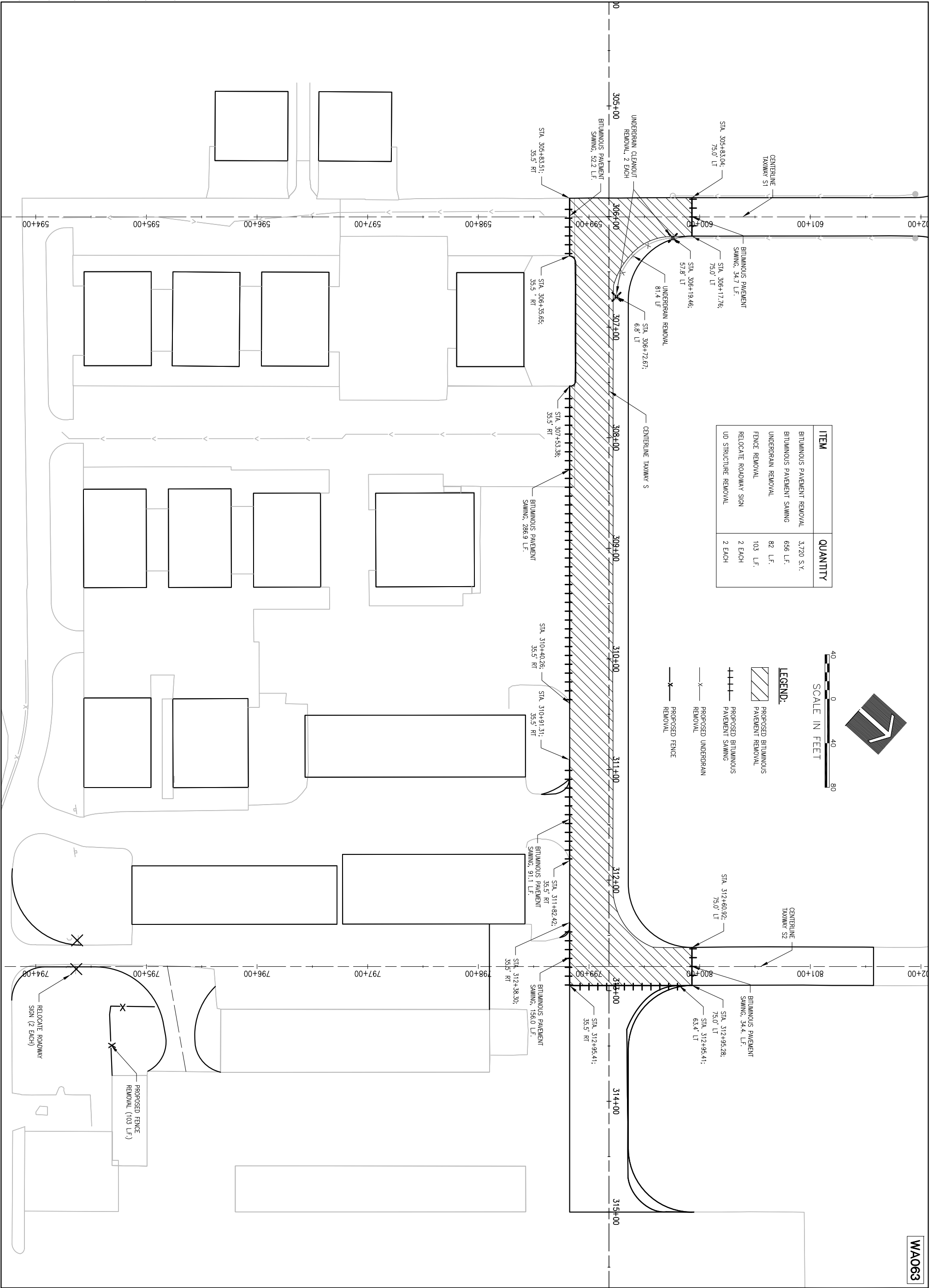
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Hanson No.	10A0035D	
Filename	10-SWPP DETAILS.DWG	
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Date	OCTOBER 29, 2010	
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STORM WATER POLLUTION PREVENTION DETAILS

REHABILITATE AND WIDEN TAXIWAY S BETWEEN TAXIWAY S1 AND S2
 IDA No. UGN-4034 AIP No. 3-17-0105-B48



ITEM	QUANTITY
BITUMINOUS PAVEMENT REMOVAL	3,720 S.Y.
BITUMINOUS PAVEMENT SAWING	656 L.F.
UNDERDRAIN REMOVAL	82 L.F.
FENCE REMOVAL	103 L.F.
RELOCATE ROADWAY SIGN	2 EACH
UD STRUCTURE REMOVAL	2 EACH



- LEGEND:**
- PROPOSED BITUMINOUS PAVEMENT REMOVAL
 - PROPOSED BITUMINOUS PAVEMENT SAWING
 - PROPOSED UNDERDRAIN REMOVAL
 - PROPOSED FENCE REMOVAL

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REMOVAL PLAN



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 Filename 11-REMOVAL PLAN.DWG
 Scale 1"=40'
 Date OCTOBER 29, 2010

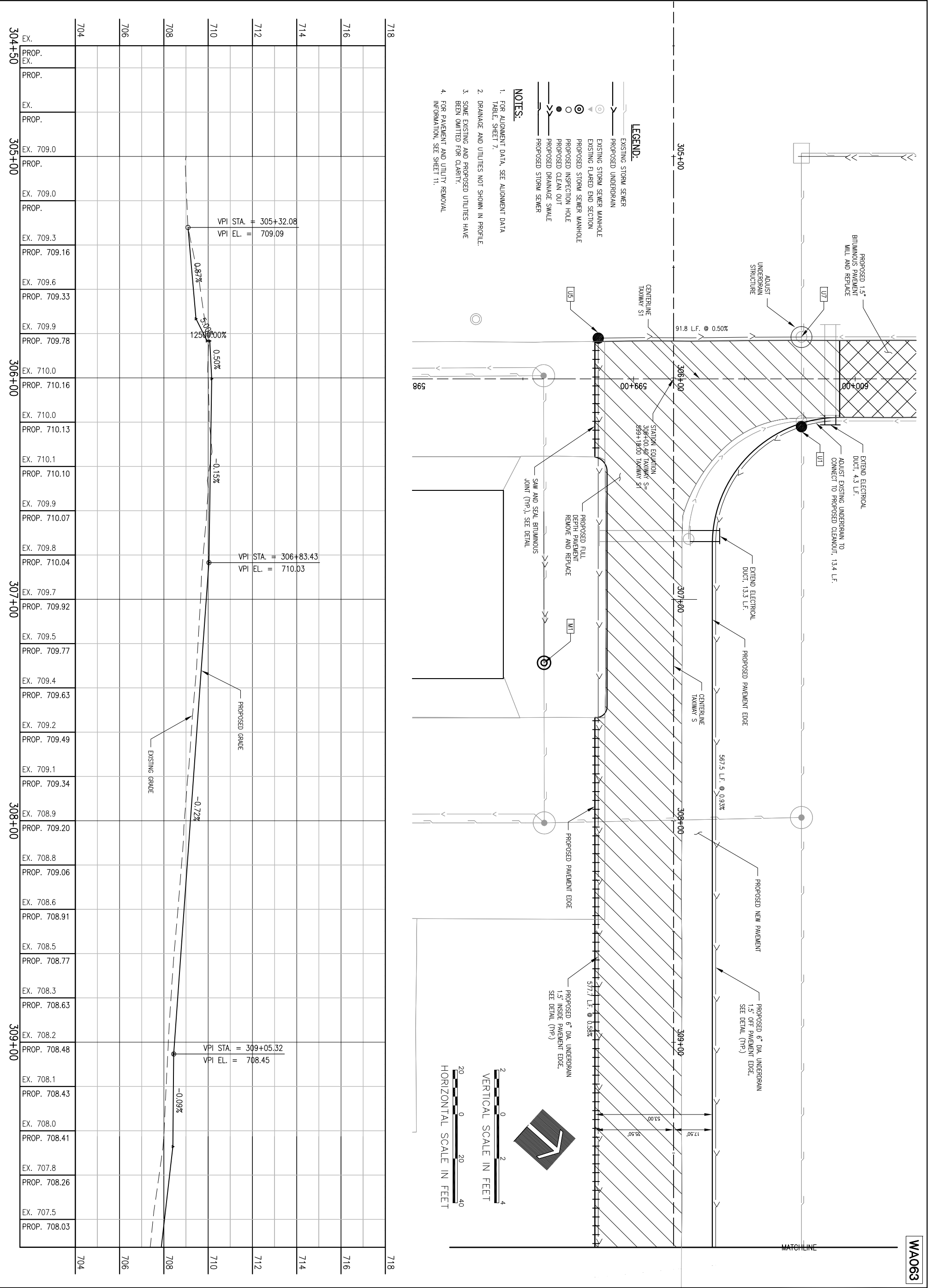
LAYOUT	LDH	12/30/10
DRAWN	LDH	12/30/10
REVIEWED	RMH	10/28/10



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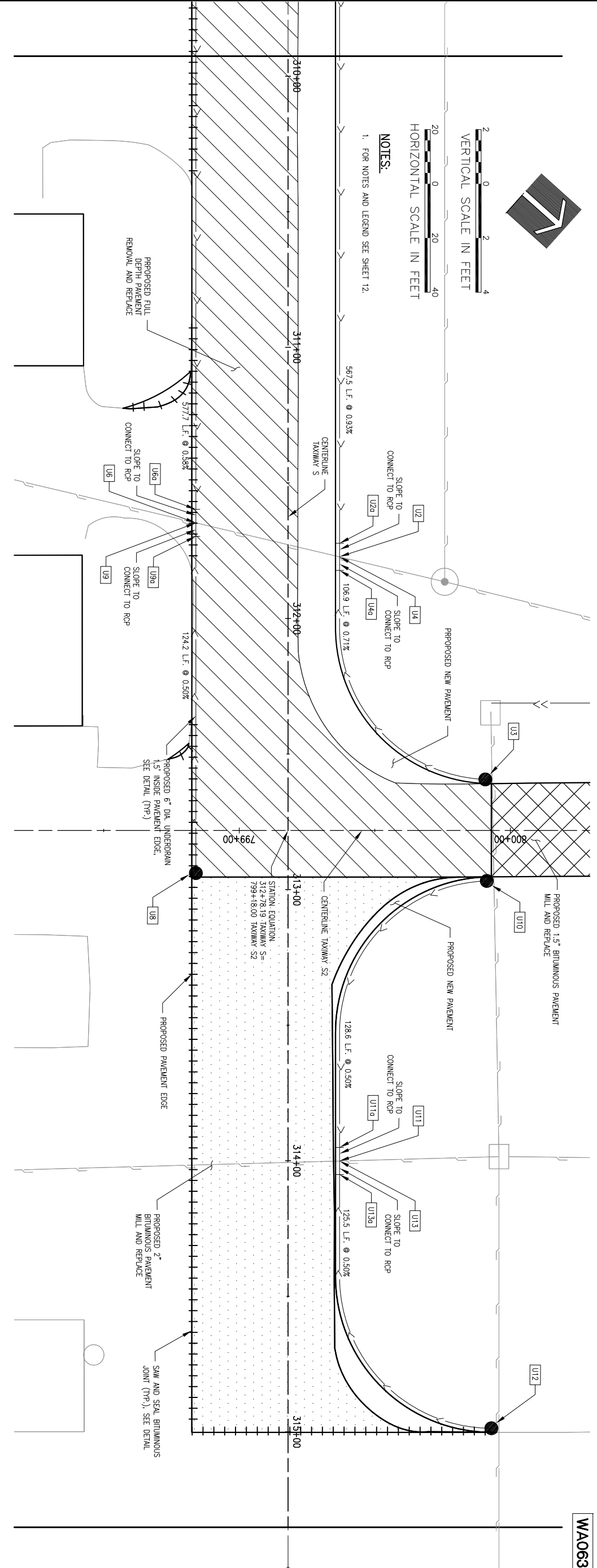
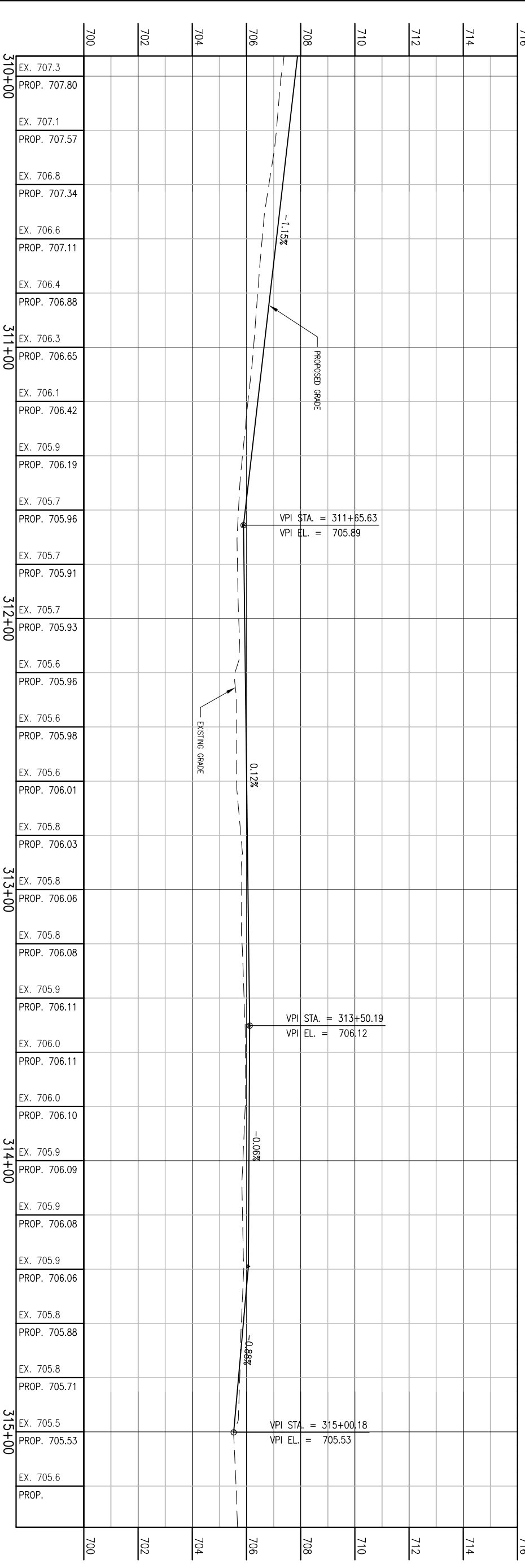
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REHABILITATE AND WIDEN TAXIWAY S BETWEEN TAXIWAY S1 AND S2
 IDA No. UGN-4034 AIP No. 3-17-0105-B48



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<p>PLAN AND PROFILE TAXIWAY S</p> <p>REHABILITATE AND WIDEN TAXIWAY S BETWEEN TAXIWAY S1 AND S2 IDA No. UGN-4034 AIP No. 3-17-0105-B48</p>	<p>HANSON</p> <p>© Copyright Hanson Professional Services Inc. 2011</p> <p>Illinois Professional Design Firm Registration No. 184-001084</p> <p>Hanson Professional Services Inc. 815 Commerce Drive, Suite 200 Oak Brook, Illinois 60523</p>	<p>Hanson No. 10A0035D</p> <p>Filename 12-PLAN & PROFILE - TAXIWAY S (2).DWG</p> <p>Scale 1"=20'</p> <p>Date OCTOBER 29, 2010</p>	<p>WAUKEGAN REGIONAL AIRPORT WAUKEGAN PORT DISTRICT</p> <p>3580 North McAree Road Waukegan, Illinois 60087 Telephone: 847.244.0066 Fax: 847.244.3813</p>	DATE	REVISION						
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PLAN AND PROFILE
 TAXIWAY S

REHABILITATE AND WIDEN TAXIWAY S
 BETWEEN TAXIWAY S1 AND S2
 IDA No. UGN-4034 AIP No. 3-17-0105-B48

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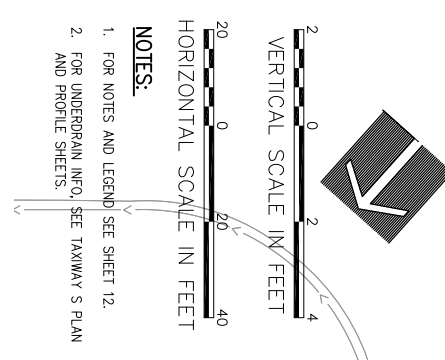
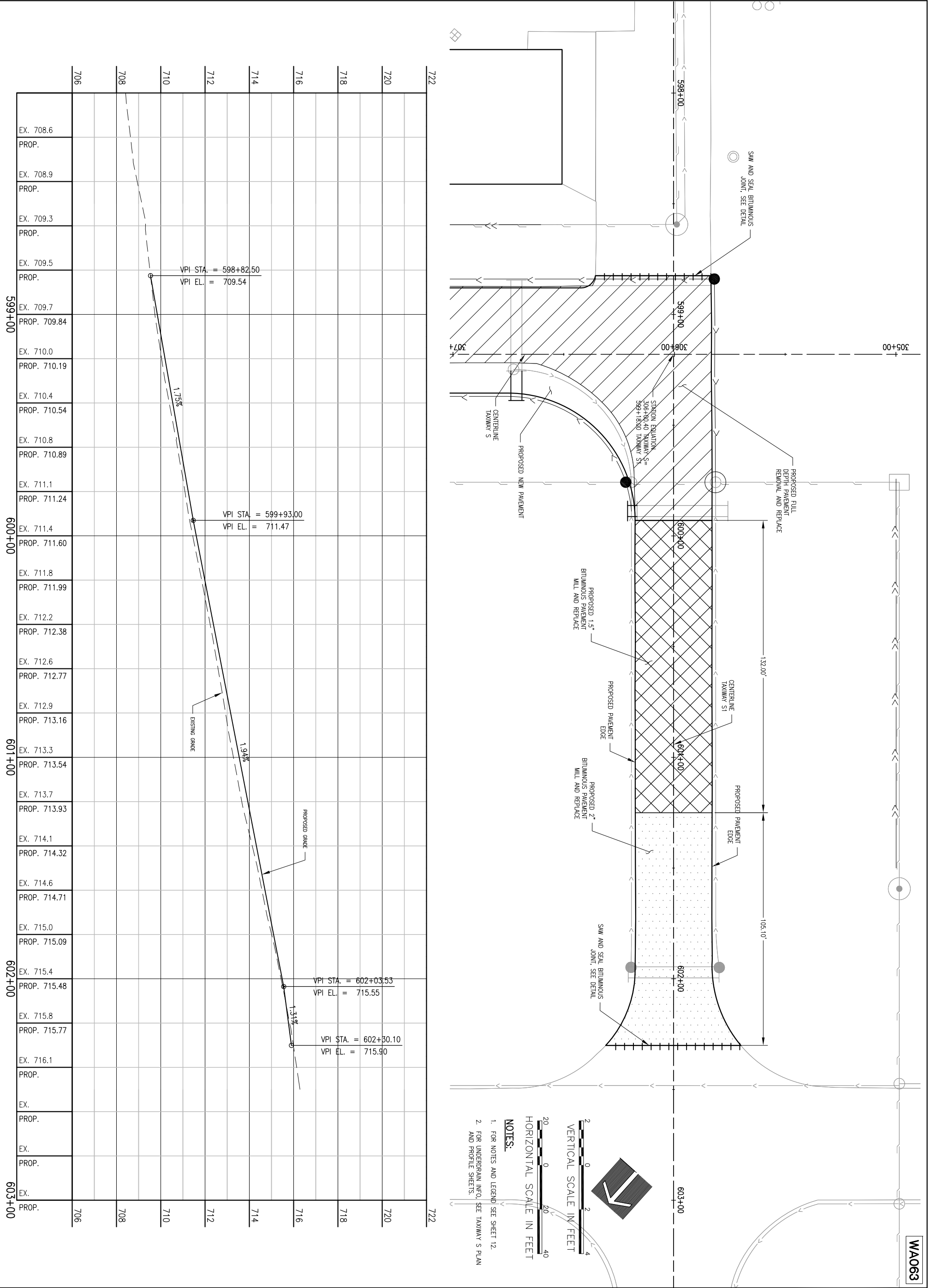


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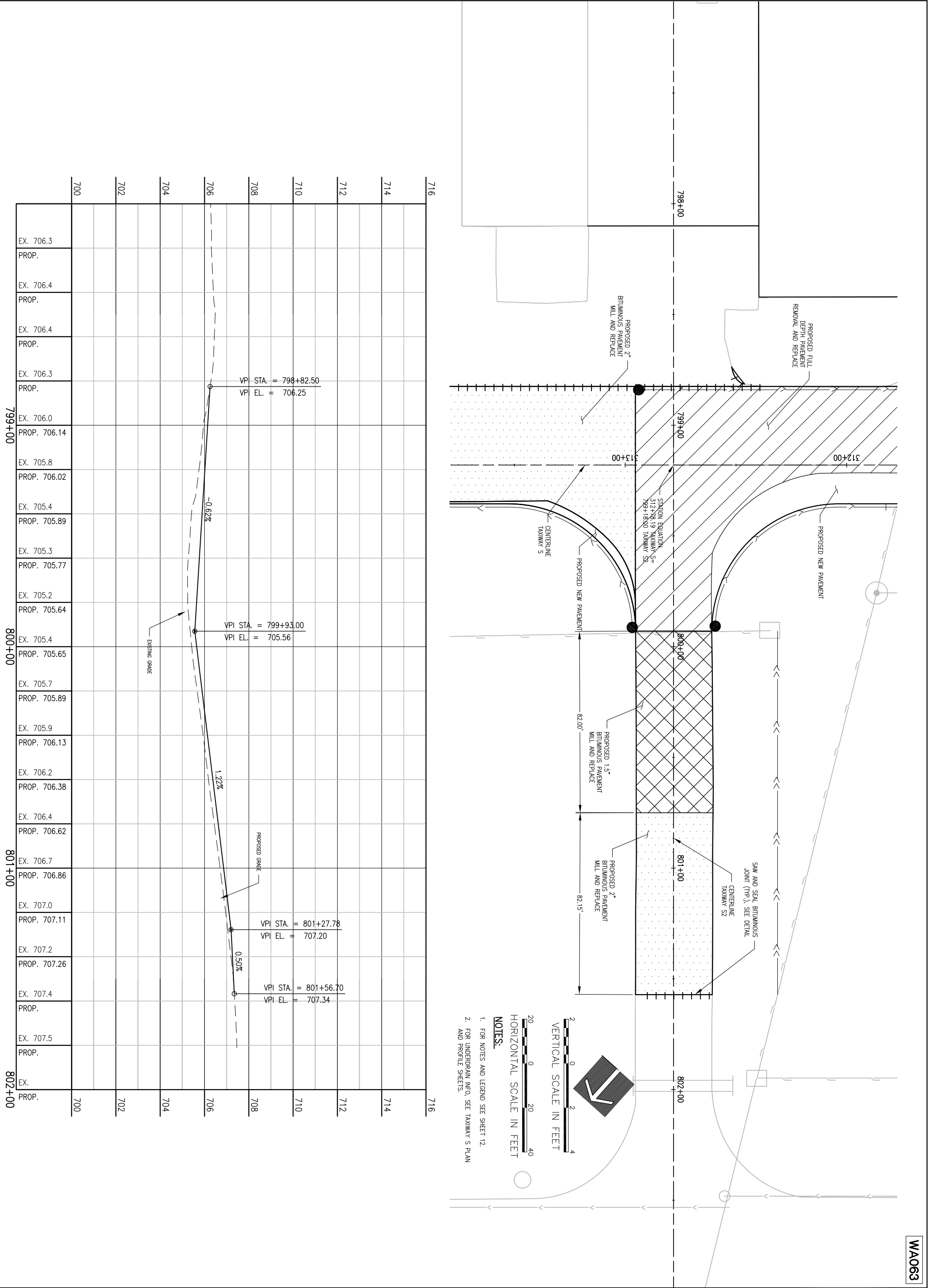
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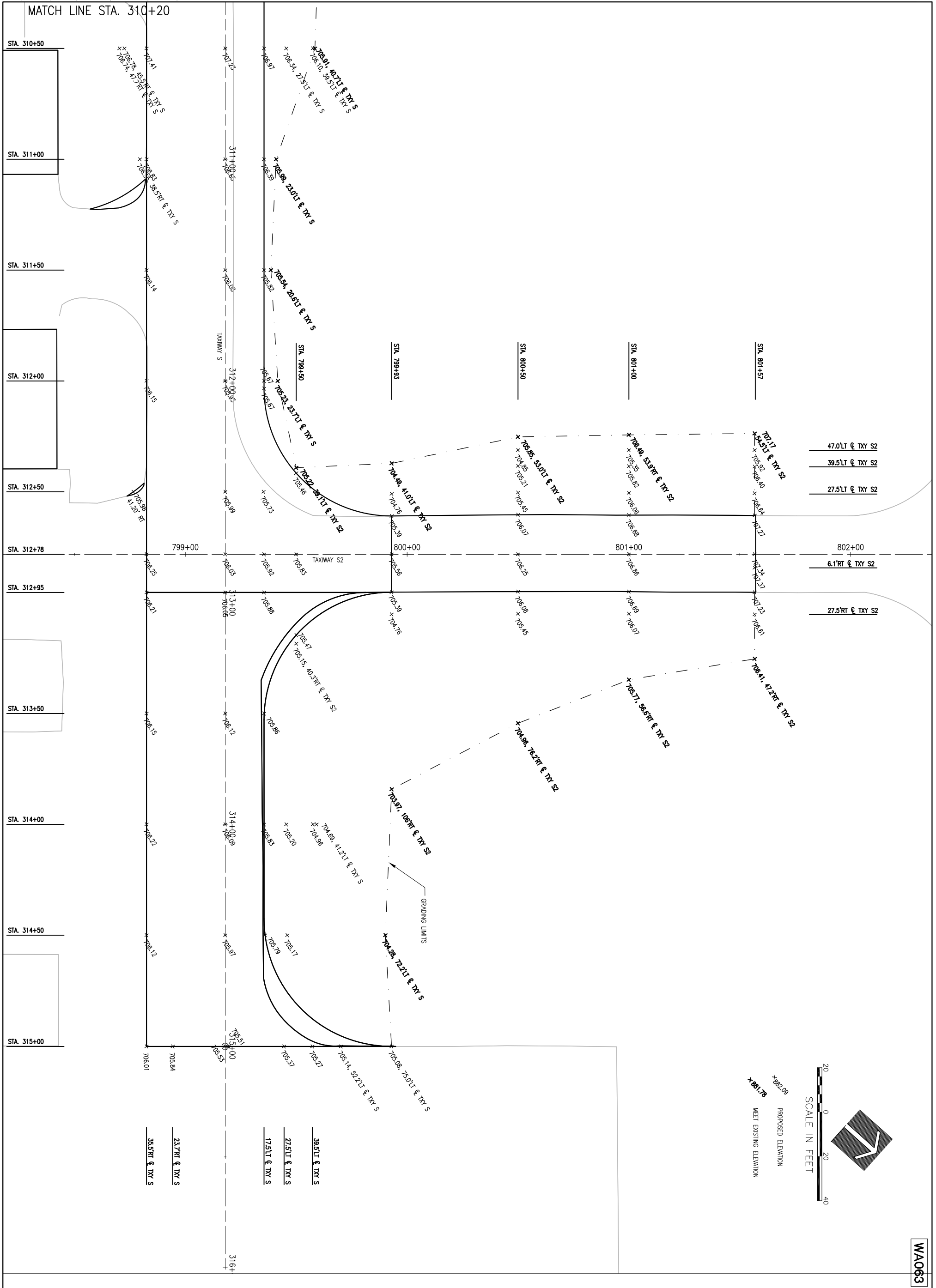
<p>14 of 36 sheets</p> <p style="font-size: 2em; font-weight: bold;">14</p>	<p>PLAN AND PROFILE TAXIWAY S1</p> <p>REHABILITATE AND WIDEN TAXIWAY S BETWEEN TAXIWAY S1 AND S2 IDA No. UGN-4034 AIP No. 3-17-0105-B48</p>	<p>HANSON Copyright Hanson Professional Services Inc. 2011 Illinois Professional Design Firm Registration No. 184-001084</p> <p>Hanson Professional Services Inc. 815 Commerce Drive, Suite 200 Oak Brook, Illinois 60523</p>	<p>Hanson No. 10A0035D Filename 14-PLAN & PROFILE - TAXIWAY S1.DWG Scale 1"=20' Date OCTOBER 29, 2010</p>		<p>WAUKEGAN REGIONAL AIRPORT WAUKEGAN PORT DISTRICT 3580 North McAree Road Waukegan, Illinois 60087 Telephone: 847.244.0066 Fax: 847.244.3813</p>	<table border="1"> <thead> <tr> <th>DATE</th> <th>REVISION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	DATE	REVISION																		
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NOTES:
 1. FOR NOTES AND LEGEND SEE SHEET 12.
 2. FOR UNDERDRAIN INFO. SEE TAXIWAY S1 PLAN AND PROFILE SHEETS.

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	<p>REHABILITATE AND WIDEN TAXIWAY S BETWEEN TAXIWAY S1 AND S2 IDA No. UGN-4034 AIP No. 3-17-0105-B48</p>		<p>Hanson Professional Services Inc. 815 Commerce Drive, Suite 200 Oak Brook, Illinois 60523</p>			<p>LAYOUT LDH 09/24/10 DRAWN SJM 09/24/10 REVIEWED RMH 10/28/10</p>	



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STAKING PLAN



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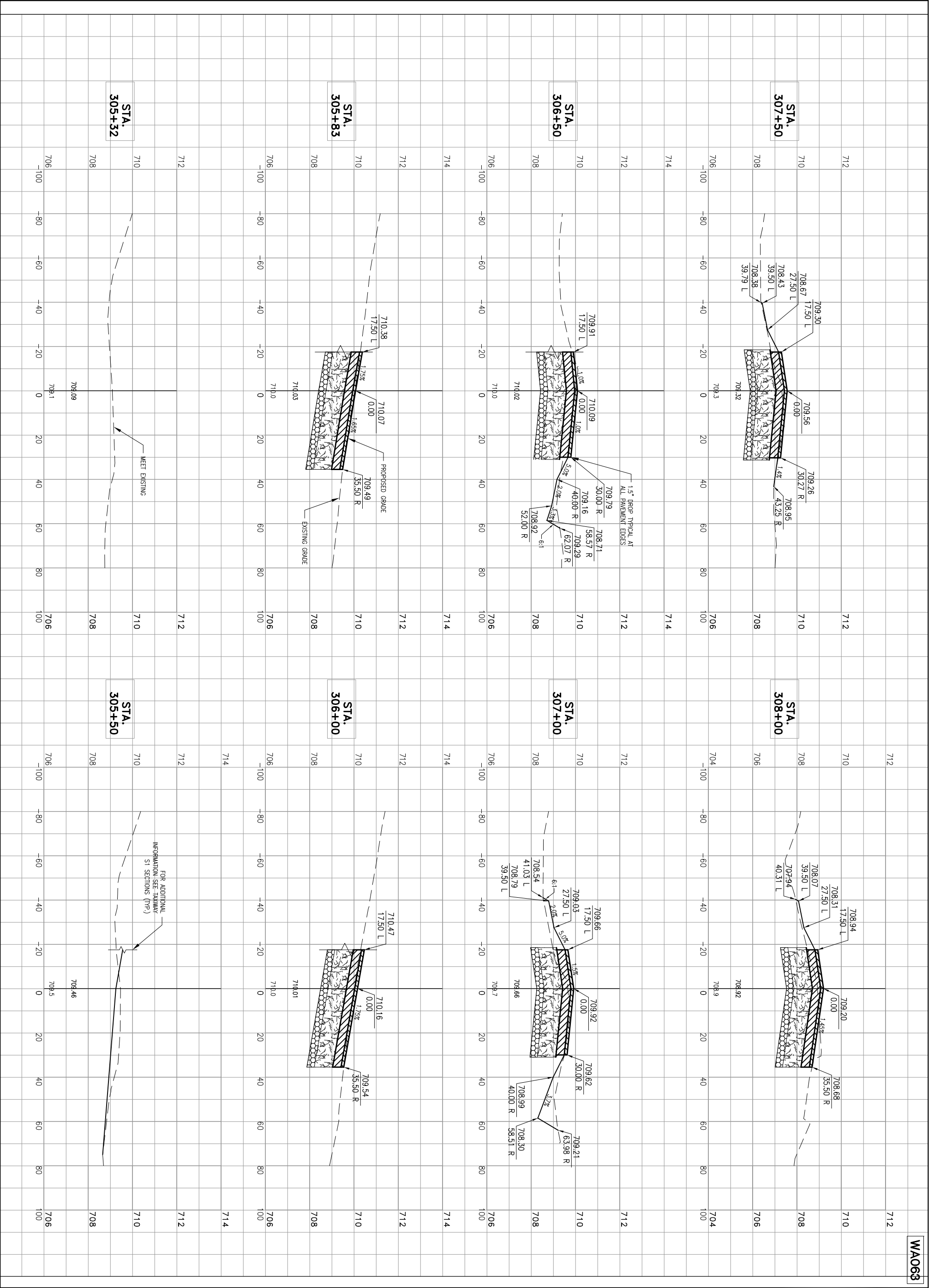


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REHABILITATE AND WIDEN TAXIWAY S
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CROSS SECTIONS TAXIWAY S

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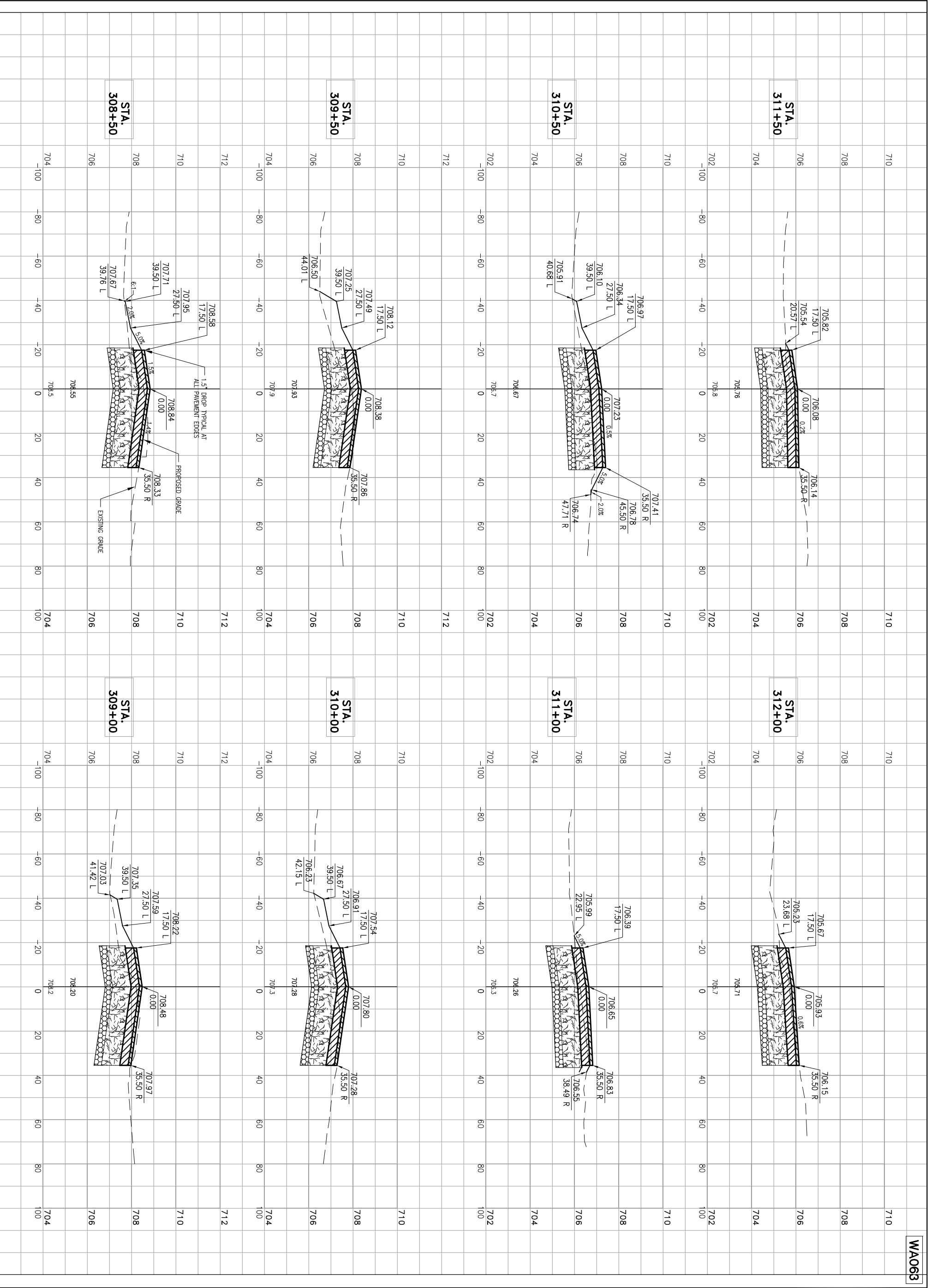
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**CROSS SECTIONS
 TAXIWAYS S**

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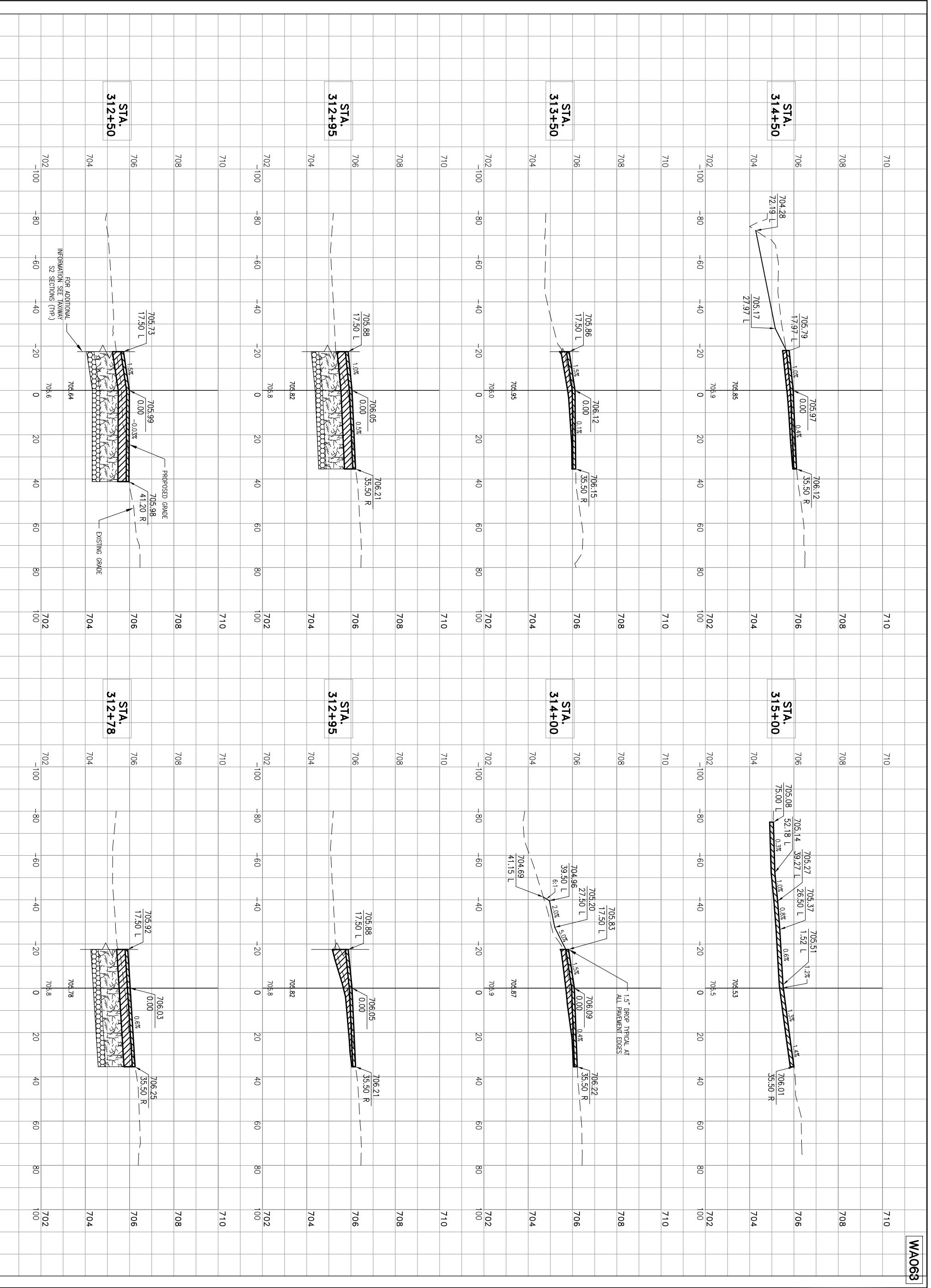
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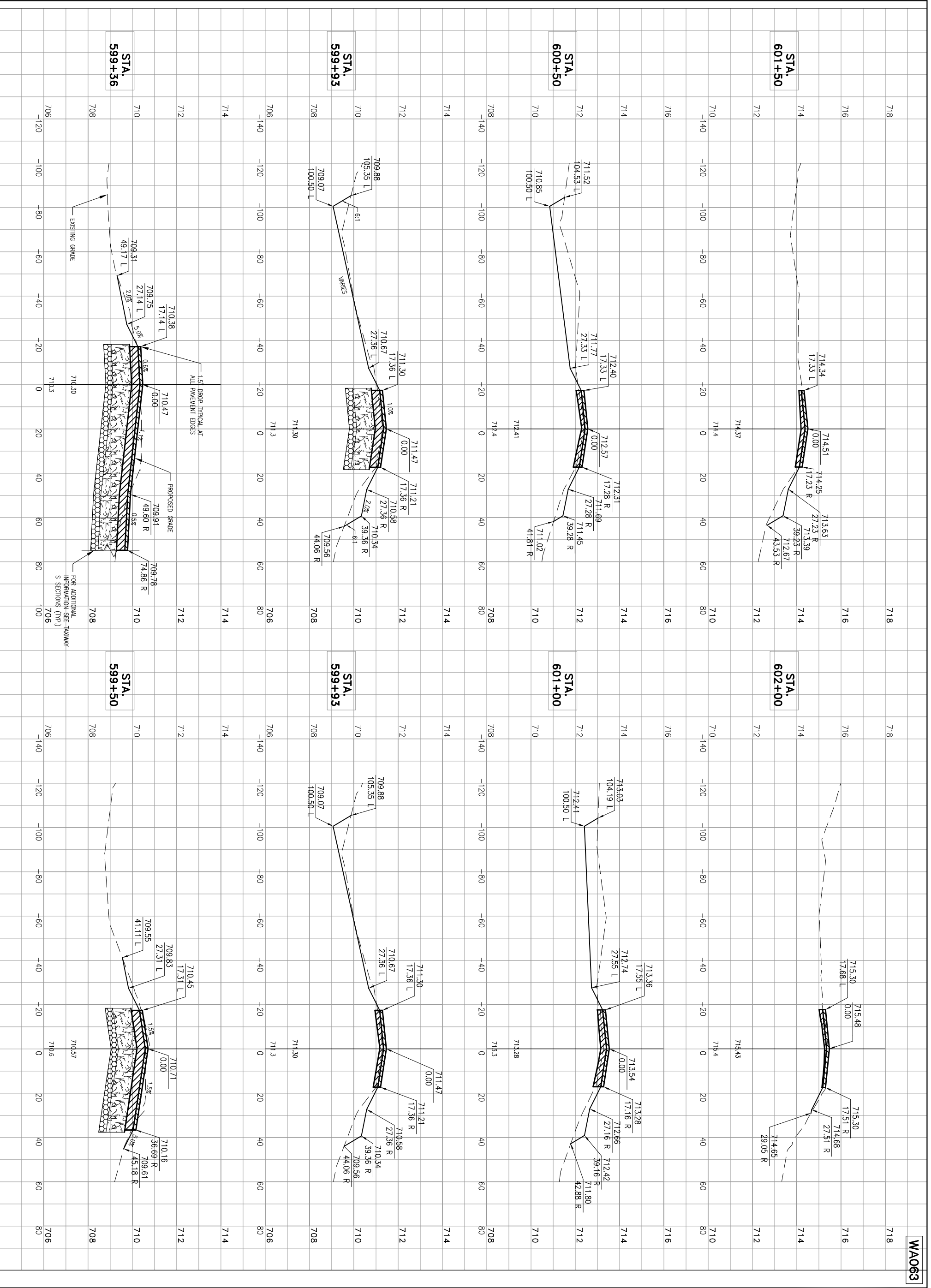


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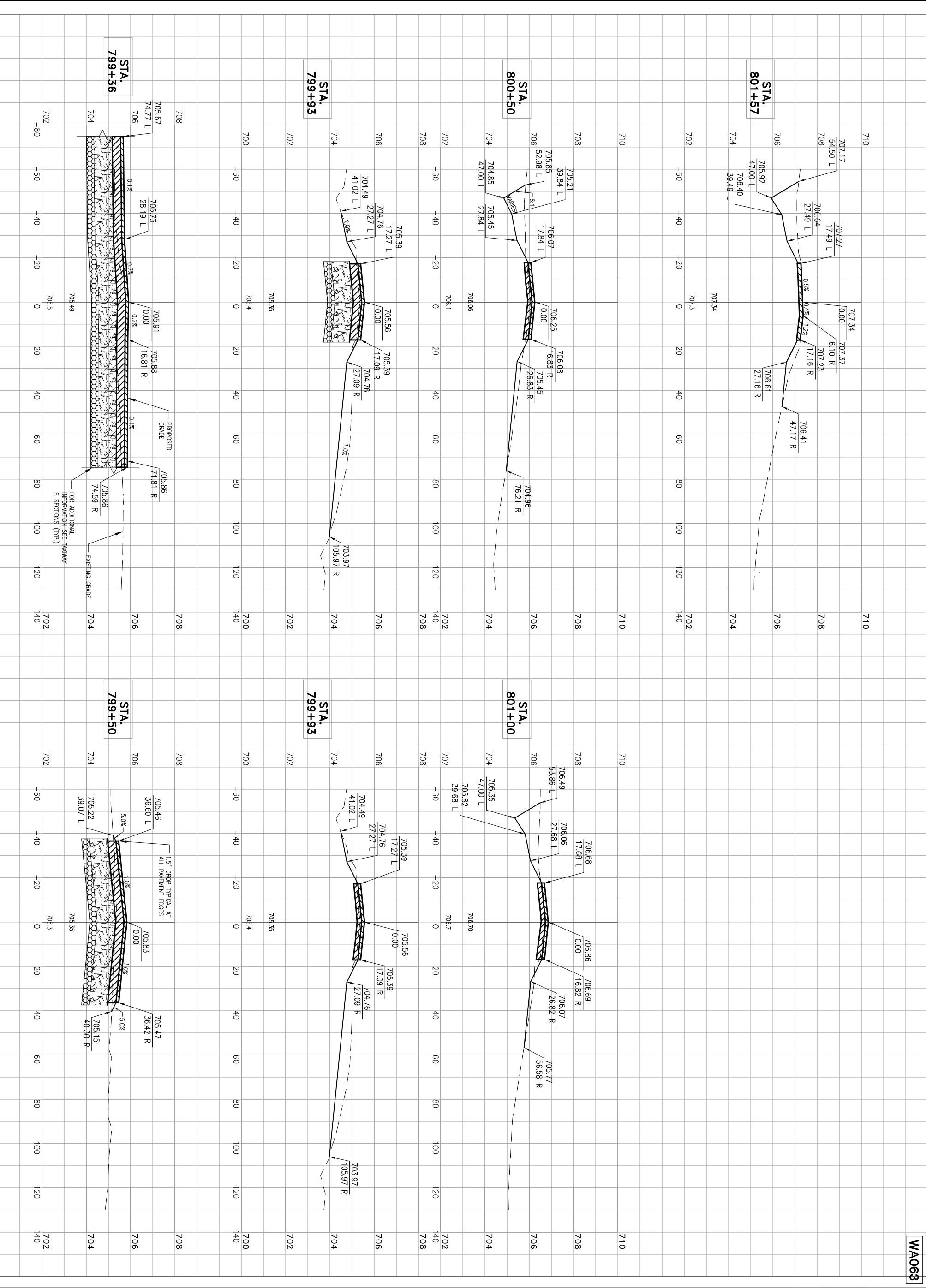


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**CROSS SECTIONS
 TAXIWAY S2**

**REHABILITATE AND WIDEN TAXIWAY S
 BETWEEN TAXIWAY S1 AND S2**
 IDA No. UGN-4034 AIP No. 3-17-0105-B48

FRAME AND LID DATA

Structure Number	Structure Type	Diameter D (in.)	Frame Height X (in.)	Hole Opening L (in.)	Frame Type (East Jordan)	Cover/Grate (East Jordan)
M1	Manhole	48	8.5	36	1585	Type M
M2	Inlet	24	9	24	1020	Type M1
M3	Manhole	48	8.5	36	1585	Type M
M4	Existing Structure					

NOTES

- ADJUST RIM ELEVATION AS NECESSARY TO MATCH PROPOSED GRADE.
- SEE DETAILS FOR ADDITIONAL MANHOLE AND FLARED END SECTION INFORMATION.
- ADJUSTING RINGS, 12-INCH MAX., NO MORE THAN TWO RINGS ALLOWED.
- ALL MANHOLES TO HAVE FLAT SLAB TOP, SEE DETAIL.
- COST OF CONNECTIONS TO MANHOLES, INLETS, RCP, AND INFILTRATION TRENCH ARE INCIDENTAL. CONNECTIONS AT MANHOLES/INLETS SHALL BE PRECAST WITH STRUCTURES OR CORED.
- ALL FRAMES AND ADJUSTING RINGS SHALL BE MORTARED.
- ALL MANHOLE AND INLET STRUCTURES TO BE PRECAST.

NOTE
 MANHOLES AND INLETS ARE LOCATED TO THE C OF THE FRAME AND GRATE. THE CONTRACTOR IS RESPONSIBLE FOR FABRICATING AND OFFSETTING THE STRUCTURES AS NEEDED TO ALLOW FOR PROPER PLACEMENT OF THE FRAME AND GRATE.

UNDERDRAIN SCHEDULE

Structure	Station	Offset	Type	Rim El.	Invert El.	Pay Length	Slope %
U1	306+21.97	56.76 LT	Adjust Existing RCP Connection Clean Out	--	707.88	13.4	Meet Existing
U2a	311+72.29	19.00 LT	Slope Break	710.71	708.21	567.5	0.93
U2	311+77.29	19.00 LT	RCP Connection	--	702.94	5.0	Slope to RCP
U3	312+59.37	72.76 LT	Clean Out	705.20	703.20	106.9	0.71
U4a	311+82.29	19.00 LT	Slope Break	--	702.44	5.0	Slope to RCP
U4	311+77.29	19.00 LT	RCP Connection	--	698.59	5.0	Slope to RCP
U5	305+82.01	34.00 RT	Clean Out	709.29	706.79	577.7	0.58
U6a	311+59.73	34.00 RT	Slope Break	--	703.46	5.0	Slope to RCP
U6	311+64.73	34.00 RT	RCP Connection	--	698.05	5.0	Slope to RCP
U7	305+81.42	57.56 LT	Meet Existing	--	706.33	91.8	0.50
U8	312+93.91	34.00 RT	Cleanout	706.22	703.83	124.2	0.50
U9a	311+69.73	34.00 RT	Slope Break	--	703.21	5.0	Slope to RCP
U9	311+64.73	34.00 RT	RCP Connection	--	698.05	5.0	Slope to RCP
U10	312+96.81	73.30 LT	Cleanout	705.20	703.20	128.6	0.50
U11a	313+95.10	19.00 LT	Slope Break	--	702.56	5.0	Slope to RCP
U11	314+00.10	19.00 LT	RCP Connection	--	697.54	5.0	Slope to RCP
U12	314+98.66	75.00 LT	Cleanout	704.88	702.88	125.5	0.50
U13a	314+05.10	19.00 LT	Slope Break	--	702.25	5.0	Slope to RCP
U13	314+00.10	19.00 LT	RCP Connection	--	697.54	5.0	Slope to RCP

STORM SEWER SCHEDULE

Structure	Station	Offset	Type	Rim El.	Invert El.	Pay Length	Size	Type	Slope %
M1	307+28.60	58.47' RT	MH	708.16	703.69	...	...	...	...
M2	795+57.32	62.06' RT	INLET	705.50	702.66	117.7	12.0	RCP	0.30
M3	794+39.25	81.53' RT	MH	704.90	702.21	31.2	12.0	RCP	0.30
M4	794+23.18	111.81' RT	Existing MH	704.47	702.12	...	...	...	...
M3a	794+36.73	67.86' RT	FES	...	702.59	8.0	12.0	RCP	2.00
M3	794+39.25	81.53' RT	MH	704.90	702.21	...	...	...	...

STORM SEWER AND UNDERDRAIN SCHEDULE

REHABILITATE AND WIDEN TAXIWAY S BETWEEN TAXIWAY S1 AND S2
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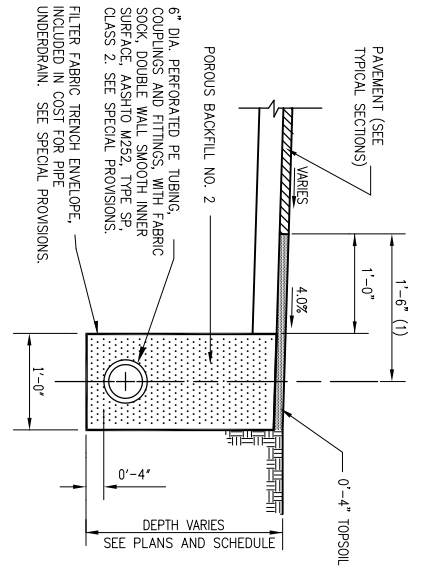
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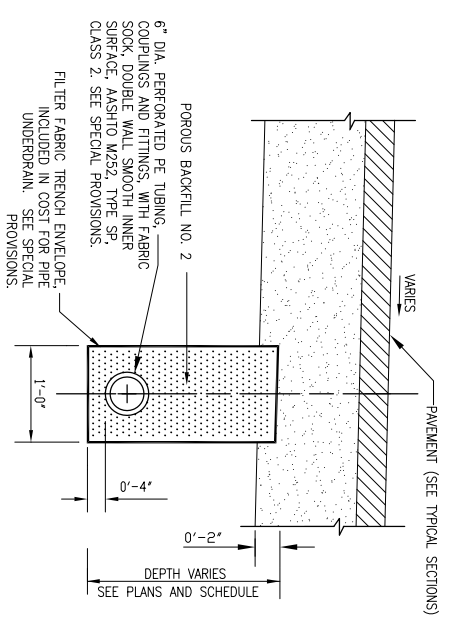
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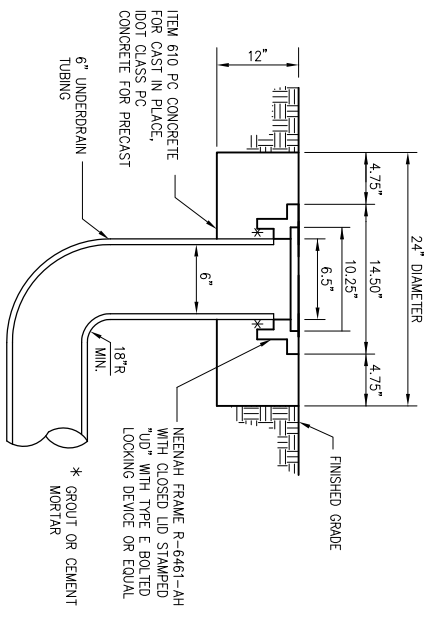
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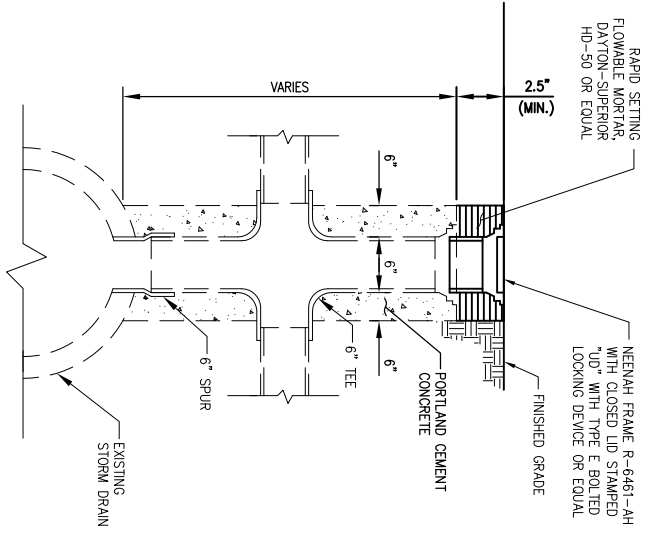
UNDERDRAIN ALONG PAVEMENT EDGE



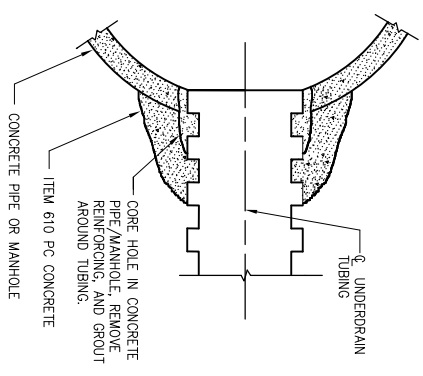
UNDERDRAIN UNDER PAVEMENT



UNDERDRAIN CLEANOUT



PROPOSED UNDERDRAIN CLEANOUT ADJUSTMENT



STORM SEWER CONCRETE COLLAR AND GROUT CONNECTION

DETAILS SHOWN ARE NOT TO SCALE

UNDERDRAIN DETAILS



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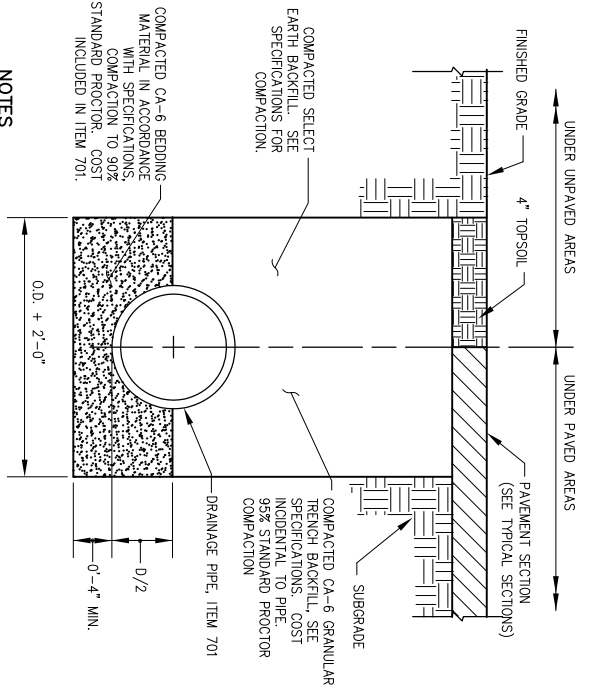
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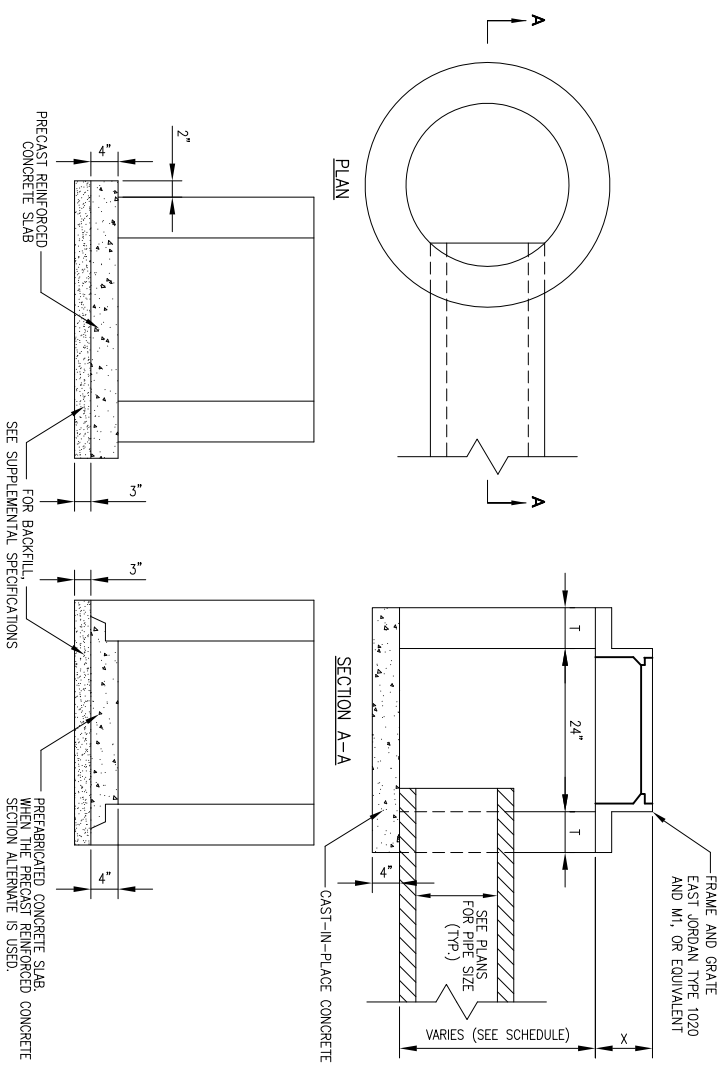
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REHABILITATE AND WIDEN TAXIWAY S BETWEEN TAXIWAY S1 AND S2
 IDA No. UGN-4034 AIP No. 3-17-0105-B48



- NOTES**
1. UNSUITABLE MATERIAL ENCOUNTERED DURING PLACEMENT OF BEDDING SHALL BE REMOVED AND REPLACED.
 2. WITHIN 3 FEET OF PAVED AREA, GRANULAR BACKFILL IS TO BE USED INSTEAD OF EARTH BACKFILL.
 3. AT CONTRACTOR'S OPTION, IDOT CONTROLLED LOW STRENGTH MATERIAL WITH A HIGH EARLY STRENGTH, "FLASH FILL," MAY BE USED INSTEAD OF GRANULAR TRENCH BACKFILL UNDER PAVEMENTS.

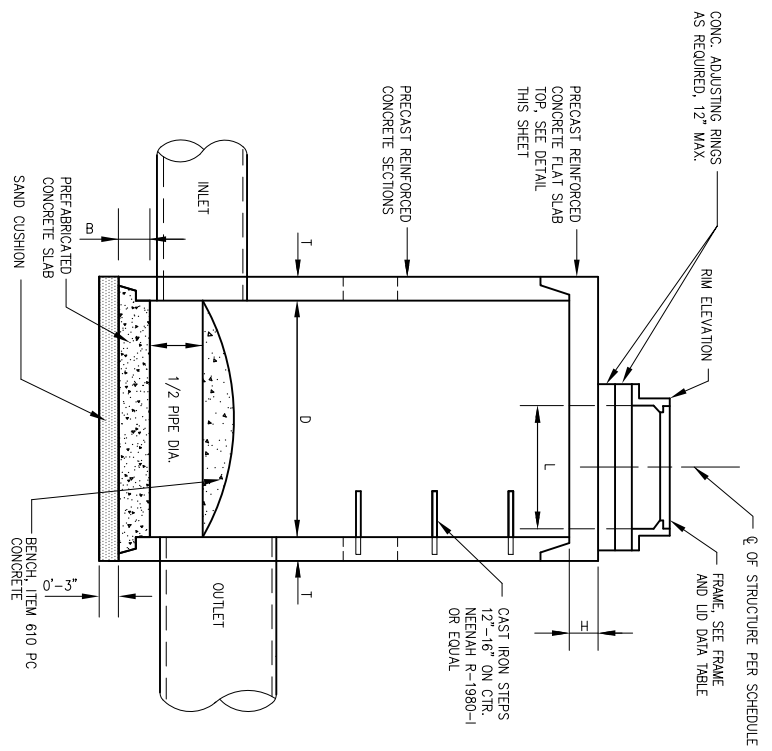
PIPE TRENCH



- NOTES**
1. SEE DRAINAGE AND UNDERDRAIN SCHEDULE FOR LOCATION, SIZE AND NUMBER OF PIPE CONNECTIONS.
 2. INLETS TO BE PRECAST REINFORCED CONCRETE SECTIONS (T = 5').

ALTERNATE METHODS

INLET TYPE A
 (IDOT STANDARD 602301)

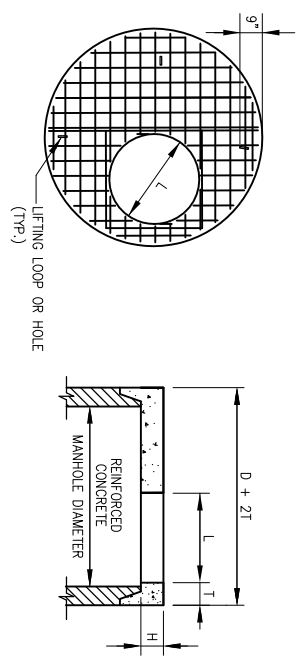


- NOTES**
1. FOR "L" DIMENSION AND FRAME AND LID INFORMATION SEE STORM SEWER SCHEDULES.
 2. CENTER OF FRAME TO BE USED FOR LOCATING STRUCTURE FOR STRUCTURE LOCATIONS AND ADDITIONAL INFORMATION SEE SCHEDULE.
 3. ALL STRUCTURES TO BE PRECAST REINFORCED CONCRETE SECTIONS; BENCHES MAY BE CAST IN PLACE.
 4. BLOCKOUTS FOR UNDERDRAIN CONNECTIONS SHALL BE PRECAST INTO THE STRUCTURE.

MANHOLE DATA

INSIDE DIA. "D" (IN.)	WALL THICKNESS "T" (IN.)	TOP THICKNESS "H" (IN.)	BOTTOM THICKNESS "B" (IN.)	SOLE OPENING "L" (IN.)
48	5	6	6	36

MANHOLE WITH FLAT SLAB TOP
 (IDOT STANDARD 602401-MODIFIED)



- NOTES**
1. ADDITIONAL TOP AND BOTTOM BARS PLACED ADJACENT TO ACCESS HOLE.
 2. MINIMUM 1" COVER ON STEEL BARS.
 3. THREE LIFTING LOOPS OR HOLES.
 4. MINIMUM STEEL REINFORCEMENT IN EACH DIRECTION TO BE W/MF 1.06 SQ. IN./FT. IN ACCORDANCE WITH AASHTO M199 AND IDOT STANDARDS.
 5. FOR "L" DIMENSION SEE STORM SEWER SCHEDULES.

PRECAST REINFORCED CONCRETE FLAT SLAB TOP
 (IDOT STANDARD 602601)

DETAILS SHOWN ARE NOT TO SCALE

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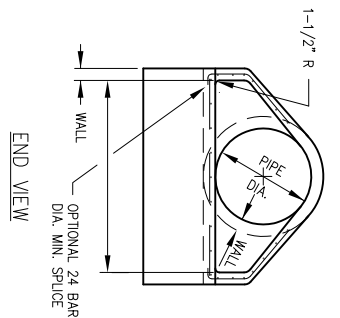
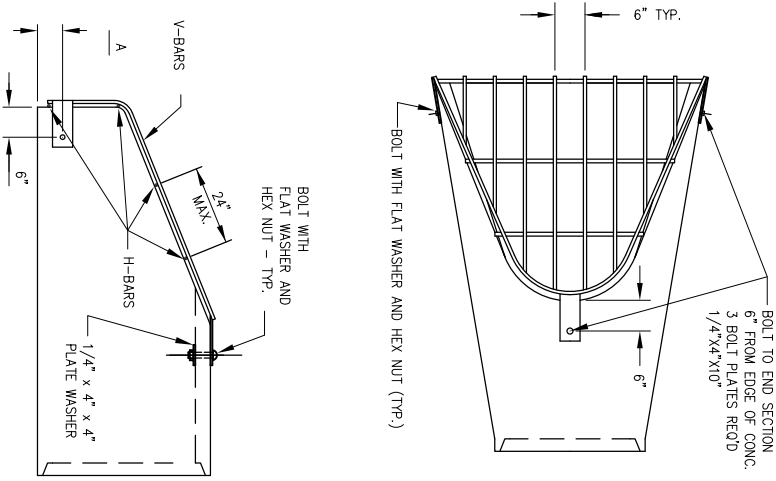
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DIA. INCHES	V-BAR SIZE INCHES	H-BAR SIZE	No. OF H-BARS RECD.	BOLT DIA. INCHES	"A" DIM.
12	1/2"	5/8"	3	1/2	4
15	1/2"	5/8"	3	1/2	4 1/2
18	1/2"	5/8"	4	1/2	4 1/2
21	1/2"	5/8"	4	1/2	5
24	5/8"	3/4"	4	1/2	5
27	5/8"	3/4"	4	1/2	5 1/2
30	5/8"	3/4"	4	1/2	5 1/2
36	3/4"	1"	4	3/4	8
42	3/4"	1"	4	3/4	8
48	3/4"	1"	5	3/4	8
54	3/4"	1-1/2" PIPE	5	3/4	8
24 X 38 ELLIPTICAL	3/4"	1"	5	3/4	8

NOTES
 1. BARS AND PLATES ARE HOT ROLLED STEEL.
 2. BARS, PLATES, PIPE AND BOLTS ARE GALVANIZED.

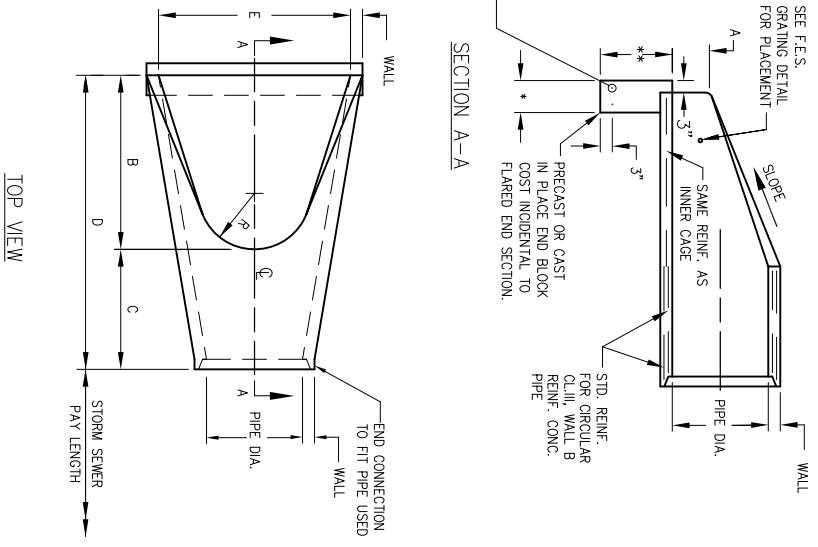
GRATING FOR FLARED END SECTION



NOTES

- GRATING SHALL BE PAID FOR UNDER ITEM ART52518.
- THE END BLOCK SHALL BE PLACED PRIOR TO THE INSTALLATION OF THE FLARED END SECTION. THE END BLOCK SHALL BE BACKFILLED IN ACCORDANCE WITH ARTICLE 502.10 OF IDOT SPECIFICATIONS, WITH COST INCIDENTAL TO FLARED END SECTION.
- PRECAST CONCRETE FLARED END SECTIONS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M-170 CLASS III, WALL B REINFORCED CONCRETE PIPE.
- MODIFICATION IS DUE TO THE RELOCATION OF THE CONNECTION POINT BETWEEN THE GRATE AND THE FLARED END SECTION.

* 8" - 36" DIA. PIPE OR LESS
 10" - GREATER THAN 36" DIA. PIPE
 ** 18" - 36" DIA. PIPE OR LESS
 24" - GREATER THAN 36" DIA. PIPE
 2 - NO. 4 BARS



PIPE DIA.	WALL	A	B	C	D	E	R	SLOPE
12"	2"	4"	2'-0"	4'-0 7/8"	6'-0 7/8"	2'-0"	9"	3:1
15"	2 1/4"	6"	2'-3"	3'-10"	6'-1"	2'-6"	11"	3:1
18"	2 1/2"	9"	2'-3"	3'-10"	6'-1"	3'-0"	12"	3:1
21"	2 3/4"	9"	2'-11"	3'-2"	6'-1"	3'-6"	13"	3:1
24"	3"	9 1/2"	3'-7 1/2"	2'-6"	6'-1 1/2"	4'-0"	14"	3:1
27"	3 1/4"	10 1/2"	4'-0"	2'-1 1/2"	6'-1 1/2"	4'-6"	14 1/2"	3:1
30"	3 1/2"	1'-0"	4'-6 1/2"	1'-7 3/4"	6'-1 3/4"	5'-0"	15"	3:1
33"	3 3/4"	1'-1 1/2"	4'-10 1/2"	3'-3 1/4"	8'-1 3/4"	5'-6"	17 1/2"	3:1
36"	4"	1'-3"	5'-3"	2'-10 3/4"	8'-1 3/4"	6'-0"	20"	3:1
42"	4 1/2"	1'-9"	5'-3"	2'-11"	8'-2"	6'-6"	22"	3:1
48"	5"	2'-0"	6'-0"	2'-2"	8'-2"	7'-0"	22"	3:1
54"	5 1/2"	2'-3"	5'-5"	2'-11"	8'-4"	7'-6"	24"	2.4:1

PRECAST CONCRETE FLARED END SECTION
 (IDOT STANDARD 542301-MODIFIED)

DETAILS SHOWN ARE NOT TO SCALE

STORM SEWER DETAILS

REHABILITATE AND WIDEN TAXIWAY S BETWEEN TAXIWAY S1 AND S2
 IDA No. UGN-4034 AIP No. 3-17-0105-B48

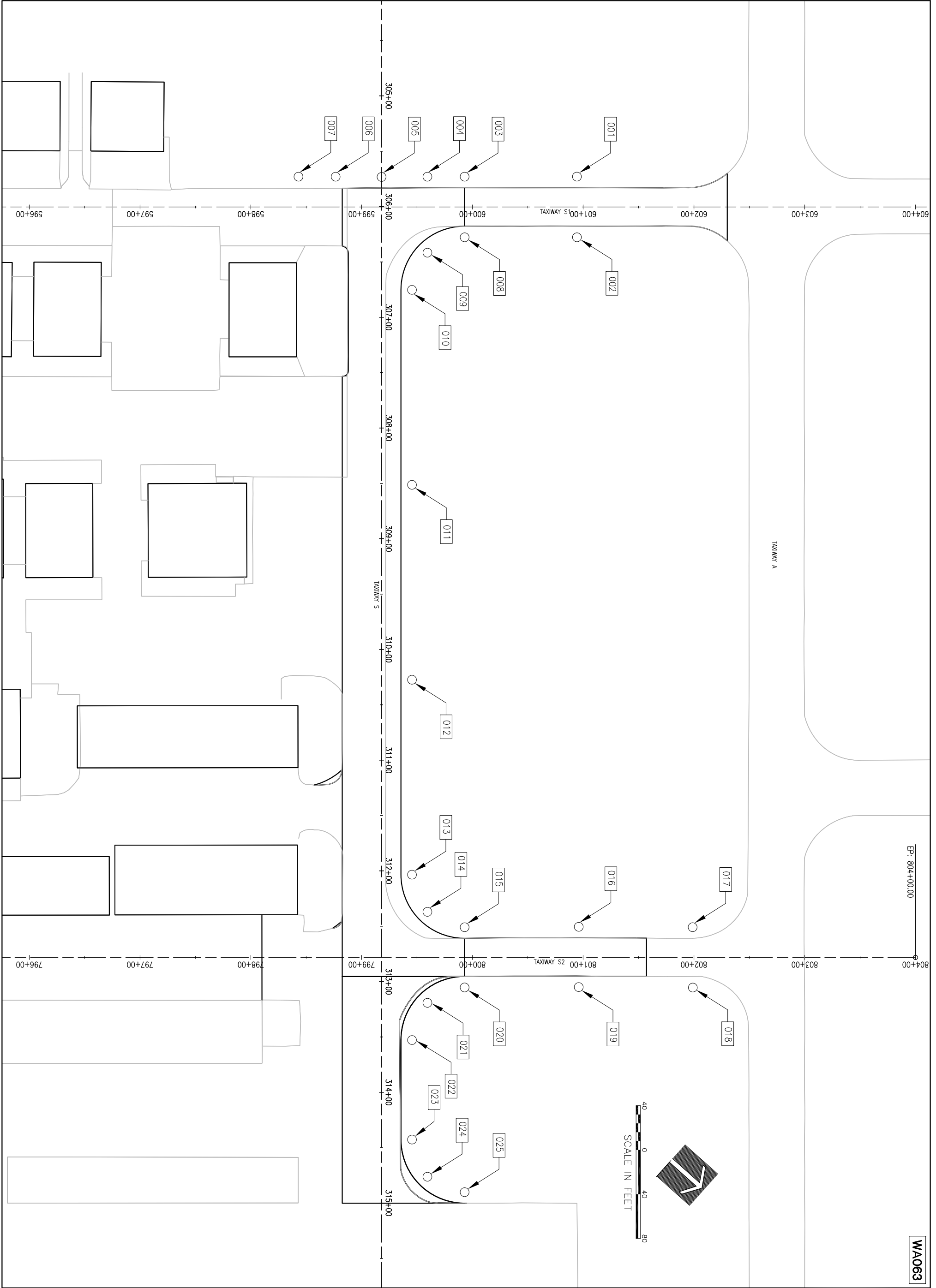
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Hanson No.	10A0035D
Filename	28-SEWER DETAILS.DWG
Scale	N/A
Date	OCTOBER 29, 2010
LAYOUT	LDH 12/29/10
DRAWN	LDH 12/29/10
REVIEWED	RMH 10/28/10



WAUKEGAN REGIONAL AIRPORT
 WAUKEGAN PORT DISTRICT
 3580 North McAree Road
 Waukegan, Illinois 60087
 Telephone: 847.244.0066
 Fax: 847.244.3813

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REFLECTIVE MARKER PLAN

REHABILITATE AND WIDEN TAXIWAY S BETWEEN TAXIWAY S1 AND S2
 IDA No. UGN-4034 AIP No. 3-17-0105-B48

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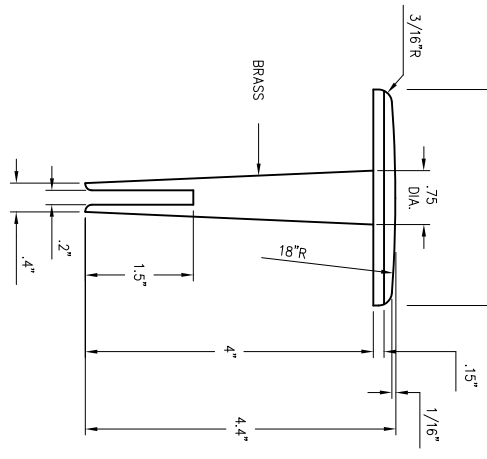
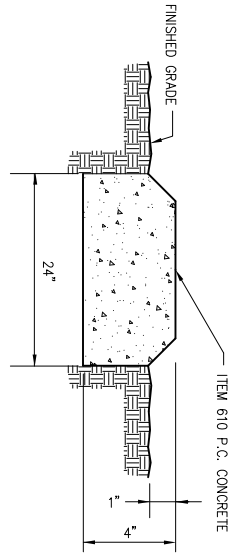
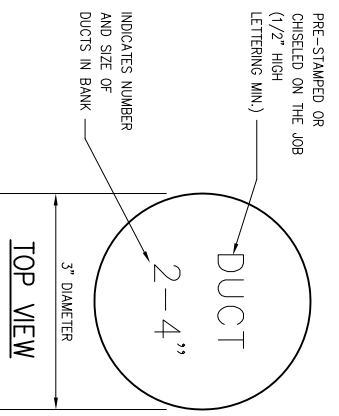
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Hanson No.	10A0035D	
Filename	29-REFLECTIVE MARKER PLAN.DWG	
Scale	1"=40'	
Date	OCTOBER 29, 2010	
LAYOUT	KMS	10/14/10
DRAWN	KMS	10/14/10
REVIEWED	RMH	10/28/10

WAUKEGAN REGIONAL AIRPORT
 WAUKEGAN PORT DISTRICT

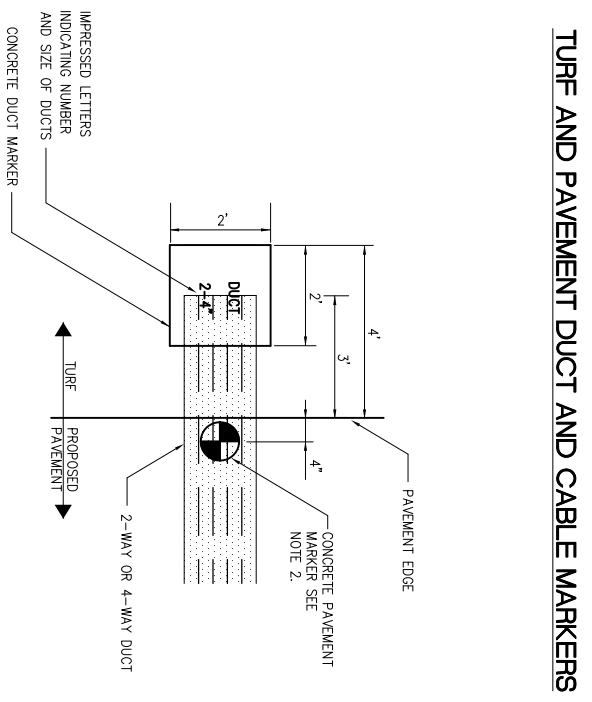
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 Fax: 847.244.3813

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NOTE: TOP OF MARKER SHALL BE FLUSH WITH FINISHED PAVEMENT SURFACE. MARKER MAY BE INSTALLED IN A DRILLED HOLE AND SECURED WITH EPOXY GROUT.

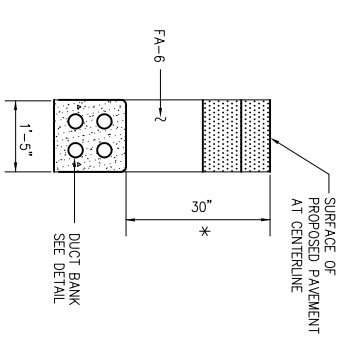
BITUMINOUS PAVEMENT MARKER



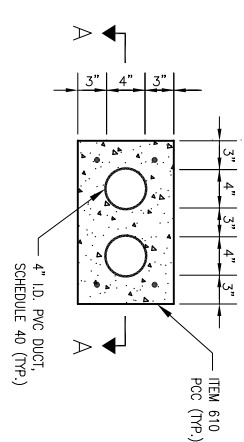
NOTES:

1. THE COSTS OF ALL TURF AND PAVEMENT DUCT MARKERS SHALL BE INCIDENTAL TO THE DUCT. THE COST OF ALL CABLE MARKERS SHALL BE INCIDENTAL TO THE CABLE.
2. BITUMINOUS PAVEMENT DUCT MARKER AND CONCRETE DUCT MARKER TO BE PROVIDED AT EACH END OF EACH DUCT AS SHOWN ON THE LOCATION PLAN. FOR CONCRETE PAVEMENT, THE LETTER "D" SHALL BE IMPRESSED IN THE PAVEMENT INSTEAD OF THE MARKER. THE LETTER SHALL BE FORMED AS DESCRIBED IN NOTE 4.
3. CABLE MARKERS SHALL BE PLACED AT CHANGES OF DIRECTION AND EVERY 200' ALONG CABLE RUNS.
4. LETTERS 4" HIGH, 3" WIDE WITH WIDTH OF STROKE 1/2" AND 1/4" DEEP. ALL LETTERS, NUMBERS AND ARROWS TO BE IMPRESSED.

ENCASED DUCT CROSSING UNDER PAVEMENT



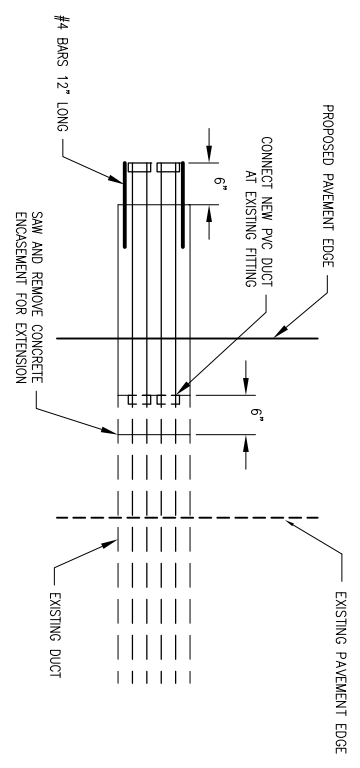
* DEPTH TO BE ADJUSTED SO THAT TOP OF DUCT ENCASUREMENT TO BE 12" BELOW INVERT OF UNDERDRAIN TUBING



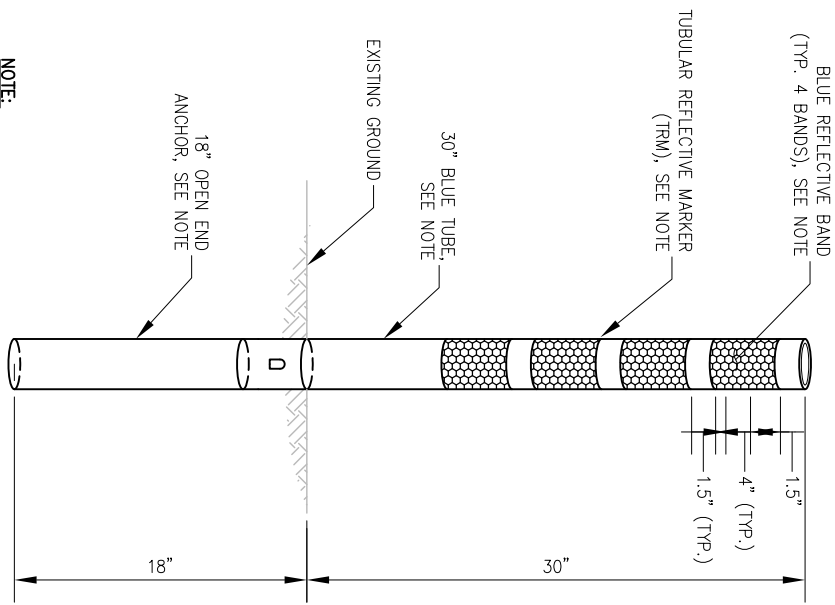
CONCRETE ENCASED DUCTS

REFLECTIVE MARKER SCHEDULE

NO.	STATION	OFFSET
001	600+94.38	27.4 LT
002	600+94.38	27.4 RT
003	305+73.04	75.0 LT
004	305+73.05	41.4 LT
005	305+73.30	0.0 RT
006	305+73.05	41.4 RT
007	305+73.04	75.0 RT
008	306+27.76	75.0 LT
009	306+41.68	41.4 LT
010	306+75.26	27.5 LT
011	308+51.31	27.5 LT
012	310+27.37	27.5 LT
013	312+03.42	27.5 LT
014	312+37.01	41.4 LT
015	312+50.92	75.0 LT
016	800+96.01	27.7 LT
017	801+98.84	27.3 LT
018	801+99.01	27.2 RT
019	800+96.01	26.8 RT
020	313+05.28	75.0 LT
021	313+19.20	41.4 LT
022	313+52.78	27.5 LT
023	314+42.66	27.5 LT
024	314+76.25	41.4 LT
025	314+90.16	75.0 LT



DUCT EXTENSION



- NOTE:**
1. TUBULAR REFLECTIVE MARKER (TRM) SHALL COMPLY WITH FAA AC 150\5345-39.
 2. TUBULAR REFLECTIVE MARKER TO BE INSTALLED PER MANUFACTURER'S INSTRUCTION.

TAXIWAY REFLECTIVE MARKER (TRM)

ELECTRICAL AND REFLECTIVE MARKER DETAILS AND SCHEDULE

REHABILITATE AND WIDEN TAXIWAY S BETWEEN TAXIWAY S1 AND S2
 IDA No. UGN-4034 AIP No. 3-17-0105-B48



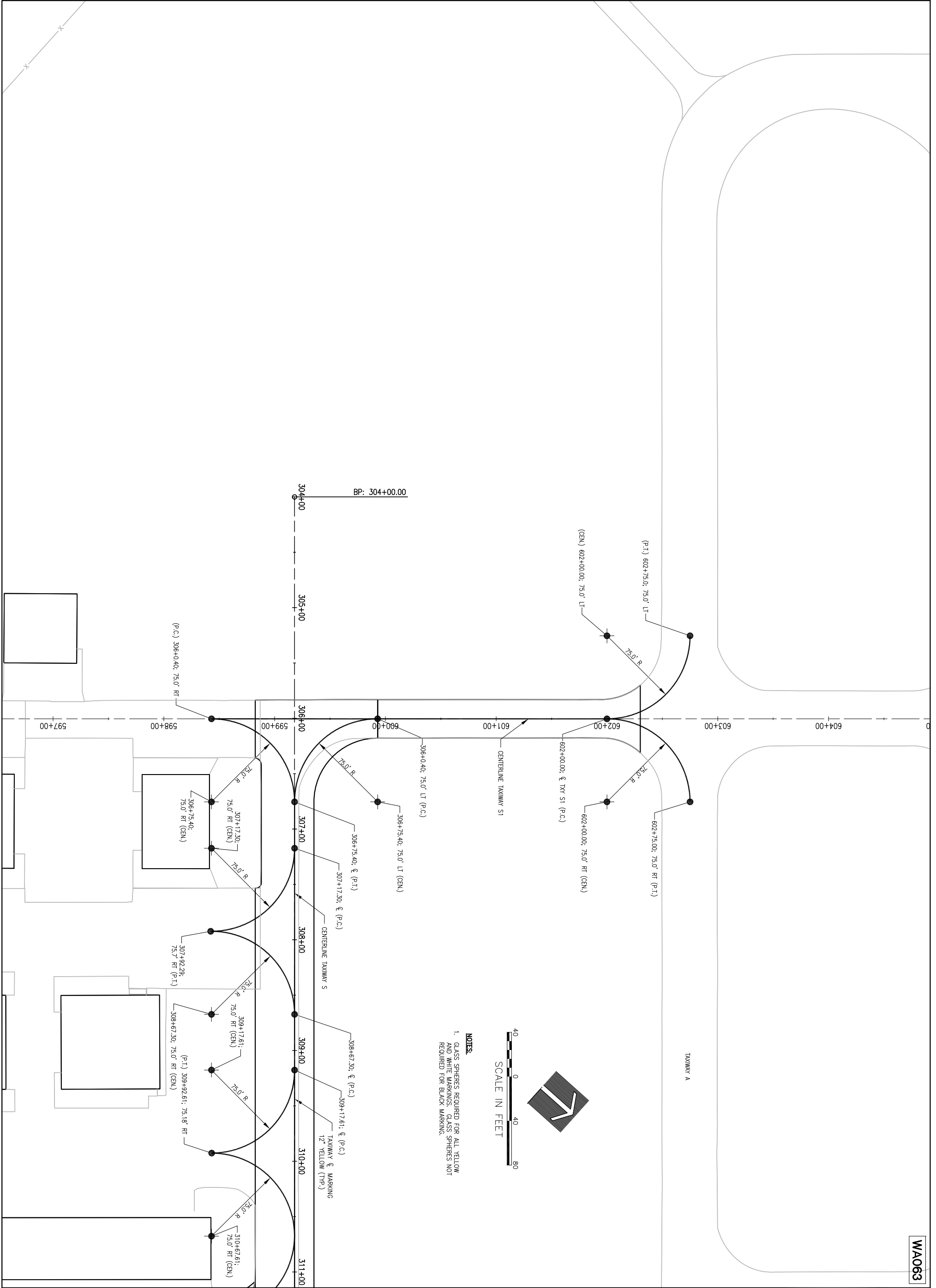
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Hanson No.	10A0035D	
Filename	30-REFLECTIVE MARKER SCHEDULE & DETAIL.DWG	
Scale	N/A	
Date	OCTOBER 29, 2010	
LAYOUT	SJM	3/5/10
DRAWN	SJM	3/5/10
REVIEWED	RMH	10/28/10



WAUKEGAN REGIONAL AIRPORT
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MARKING PLAN

**REHABILITATE AND WIDEN TAXIWAY S
 BETWEEN TAXIWAY S1 AND S2**
 IDA No. UGN-4034 AIP No. 3-17-0105-B48

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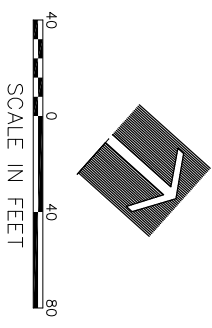
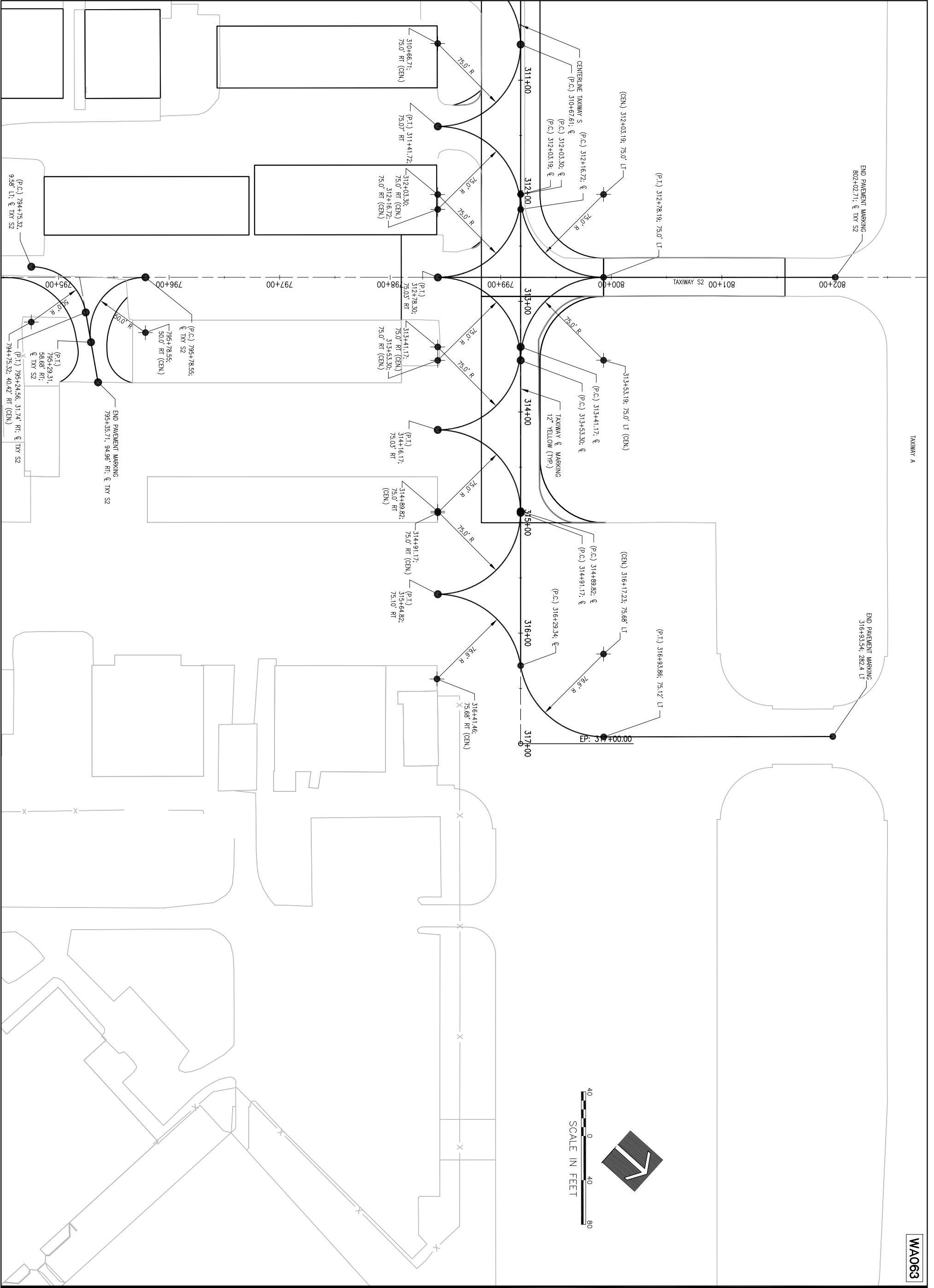
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 Oak Brook, Illinois 60523

Hanson No.	10A0035D	
Filename	31-MARKING PLAN.DWG	
Scale	1"=40'	
Date	OCTOBER 29, 2010	
LAYOUT	KMS	10/13/10
DRAWN	KMS	10/13/10
REVIEWED	RMH	10/28/10



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MARKING PLAN



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Hanson No. 10A0035D
 Filename 32-MARKING PLAN.DWG
 Scale 1"=40'
 Date OCTOBER 29, 2010

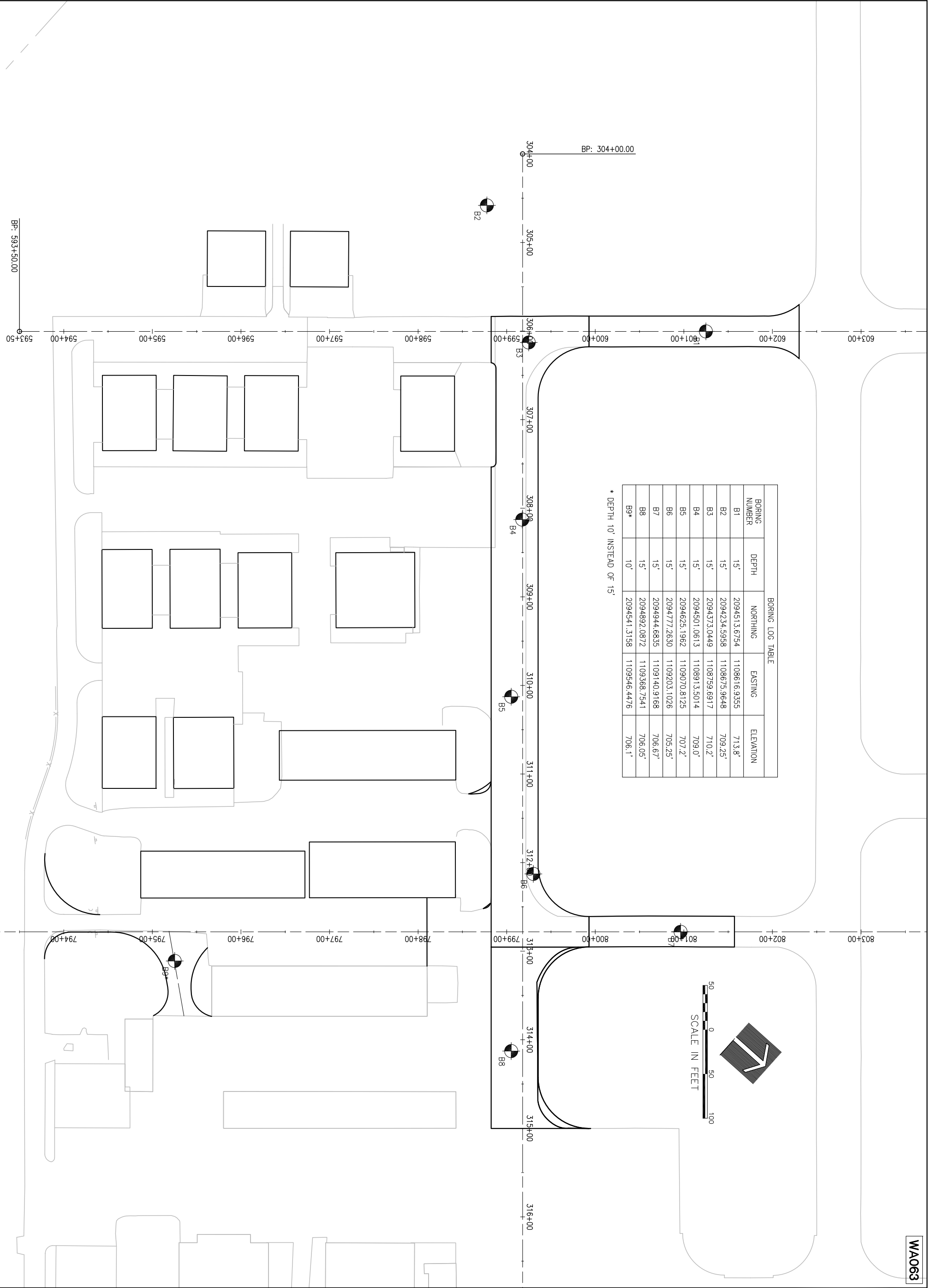
LAYOUT	KMS	10/13/10
DRAWN	KMS	10/13/10
REVIEWED	RMH	10/28/10



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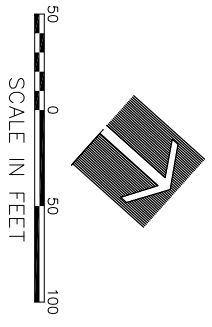
**REHABILITATE AND WIDEN TAXIWAY S
 BETWEEN TAXIWAY S1 AND S2**
 IDA No. UGN-4034 AIP No. 3-17-0105-B48



BORING LOG TABLE

BORING NUMBER	DEPTH	NORTHING	EASTING	ELEVATION
B1	15'	209451.3, 675.4	110861.6, 935.5	713.8'
B2	15'	209423.4, 595.8	110867.5, 964.8	709.25'
B3	15'	209437.3, 044.9	110875.9, 691.7	710.2'
B4	15'	209450.1, 061.3	110891.3, 501.4	709.0'
B5	15'	209462.5, 196.2	110907.0, 812.5	707.2'
B6	15'	209477.7, 263.0	110920.3, 102.6	705.25'
B7	15'	209494.4, 683.5	1109140.9, 168	706.67'
B8	15'	209489.2, 087.2	1109368.7, 541	706.05'
B9*	10'	209454.1, 315.8	1109546.4, 47.6	706.1'

* DEPTH 10' INSTEAD OF 15'



WA063

<p>BORING LOCATION MAP</p>	<p>HANSON Copyright Hanson Professional Services Inc. 2011 Illinois Professional Design Firm Registration No. 184-001084</p>	<p>Hanson No. 10A0035D Filename 34-BORING LOCATION MAP.DWG Scale 1"=50' Date OCTOBER 29, 2010</p>	<p>WAUKEGAN REGIONAL AIRPORT WAUKEGAN PORT DISTRICT 3580 North McAree Road Waukegan, Illinois 60087 Telephone: 847.244.0066 Fax: 847.244.3813</p>	DATE	REVISION
		LAYOUT LDH 7/14/10 DRAWN LDH 7/14/10 REVIEWED RMH 10/28/10	REHABILITATE AND WIDEN TAXIWAY S BETWEEN TAXIWAY S1 AND S2 IDA No. UGN-4034 AIP No. 3-17-0105-B48	Hanson Professional Services Inc. 815 Commerce Drive, Suite 200 Oak Brook, Illinois 60523	

LOG OF BORING NO. B-1 SHEET 1 OF 1

GEC Job #		Hanson Professional Services Inc.	
CLIENT:		Hanson Professional Services Inc.	
PROJECT:		Taxiway 5 between Taxiway S1 and S2	
STATION:		Waukegan Regional Airport Waukegan, Illinois	
LOCATION:		Waukegan, Illinois	
DEPTH BELOW GROUND SURFACE SAMPLE NO. TYPE SAMPLE SAMPLE DISTANCE X RECOVERY GRAPHIC LOG			
GROUND SURFACE ELEVATION (CG) 713.80 8.5" Asphalt over crushed stone base			
1 SS 61 Silty clay, trace sand and gravel, brown, very stiff (CL-FHLL)			
2 SS 63 Silty clay, trace sand and gravel, brown-gray, hard (CL)			
3 SS 63 Silty clay, trace sand and gravel, brown-gray, hard (CL)			
4 SS 64 Silty clay, trace sand and gravel, brown-gray, hard (CL)			
5 SS 63 Silty clay, trace sand and gravel, brown-gray, hard (CL)			
6 SS 100 End of Boring			
UNCORRECTED COMPRESSION STRENGTH (TONS/FT ²) CALIBRATED PENETROMETER (TONS/FT ²) WATER CONTENT % STANDARD "N" PENETRATION (BLows)/FT.			
BORE LOG OBSERVATIONS W.L. 7.16 HRS. 48 GEC Job # CLIENT: Hanson Professional Services Inc. PROJECT: Taxiway 5 between Taxiway S1 and S2 STATION: Waukegan Regional Airport LOCATION: Waukegan, Illinois SHEET 1 OF 1			

LOG OF BORING NO. B-2 SHEET 1 OF 1

GEC Job #		Hanson Professional Services Inc.	
CLIENT:		Hanson Professional Services Inc.	
PROJECT:		Taxiway 5 between Taxiway S1 and S2	
STATION:		Waukegan Regional Airport Waukegan, Illinois	
LOCATION:		Waukegan, Illinois	
DEPTH BELOW GROUND SURFACE SAMPLE NO. TYPE SAMPLE SAMPLE DISTANCE X RECOVERY GRAPHIC LOG			
GROUND SURFACE ELEVATION (CG) 708.25 Topsoil			
1 SS 100 Silty clay, trace gravel, sand and gravel, dark gray and dark brown, very stiff (CL)			
2 SS 72 Silty clay, trace sand and gravel, light blue and brown, hard (CL)			
3 SS 69 Clayey silt, brown, wk. medium dense (ML)			
4 SS 63 Silty clay, trace sand and gravel, brown-gray, one large stone, hard (CL)			
5 SS 89 Silty clay, trace sand and gravel, hard (CL)			
6 SS 78 End of Boring			
UNCORRECTED COMPRESSION STRENGTH (TONS/FT ²) CALIBRATED PENETROMETER (TONS/FT ²) WATER CONTENT % STANDARD "N" PENETRATION (BLows)/FT.			
BORE LOG OBSERVATIONS W.L. 7.16 HRS. 48 GEC Job # CLIENT: Hanson Professional Services Inc. PROJECT: Taxiway 5 between Taxiway S1 and S2 STATION: Waukegan Regional Airport LOCATION: Waukegan, Illinois SHEET 1 OF 1			

LOG OF BORING NO. B-3 SHEET 1 OF 1

GEC Job #		Hanson Professional Services Inc.	
CLIENT:		Hanson Professional Services Inc.	
PROJECT:		Taxiway 5 between Taxiway S1 and S2	
STATION:		Waukegan Regional Airport Waukegan, Illinois	
LOCATION:		Waukegan, Illinois	
DEPTH BELOW GROUND SURFACE SAMPLE NO. TYPE SAMPLE SAMPLE DISTANCE X RECOVERY GRAPHIC LOG			
GROUND SURFACE ELEVATION (CG) 712.20 9" Asphalt over 8" stone base			
1 SS 50 Silty clay, trace gravel and stone, dark gray, very stiff (CL-FHLL)			
2 SS 78 Silty clay, trace sand and gravel, gray, very stiff (CL-FHLL)			
3 SS 63 Silty clay, trace sand and gravel, brown-gray, hard (CL)			
4 SS 89 Silty clay, trace sand and gravel, brown-gray, hard (CL)			
5 SS 72 Silty clay, trace sand and gravel, very stiff (ML-CL)			
6 SS 56 End of Boring			
UNCORRECTED COMPRESSION STRENGTH (TONS/FT ²) CALIBRATED PENETROMETER (TONS/FT ²) WATER CONTENT % STANDARD "N" PENETRATION (BLows)/FT.			
BORE LOG OBSERVATIONS W.L. 14.31 HRS. 48 GEC Job # CLIENT: Hanson Professional Services Inc. PROJECT: Taxiway 5 between Taxiway S1 and S2 STATION: Waukegan Regional Airport LOCATION: Waukegan, Illinois SHEET 1 OF 1			

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LOG OF BORING NO. B-4 SHEET 1 OF 1

GEC Job #		Hanson Professional Services Inc.	
CLIENT:		Hanson Professional Services Inc.	
PROJECT:		Taxiway 5 between Taxiway S1 and S2	
STATION:		Waukegan Regional Airport Waukegan, Illinois	
LOCATION:		Waukegan, Illinois	
DEPTH BELOW GROUND SURFACE SAMPLE NO. TYPE SAMPLE SAMPLE DISTANCE X RECOVERY GRAPHIC LOG			
GROUND SURFACE ELEVATION (CG) 709.80 9" Asphalt over crushed stone base			
1 SS 69 Silty clay, trace sand and gravel, dark gray, very stiff (CL-FHLL)			
2 SS 63 Silty clay, trace sand and gravel, brown-gray, hard (CL)			
3 SS 79 Silty clay, trace sand and gravel, gray, very stiff (CL)			
4 SS 89 Clayey silt, gray, very stiff (ML-CL)			
5 SS 100 End of Boring			
UNCORRECTED COMPRESSION STRENGTH (TONS/FT ²) CALIBRATED PENETROMETER (TONS/FT ²) WATER CONTENT % STANDARD "N" PENETRATION (BLows)/FT.			
BORE LOG OBSERVATIONS W.L. 7.16 HRS. 48 GEC Job # CLIENT: Hanson Professional Services Inc. PROJECT: Taxiway 5 between Taxiway S1 and S2 STATION: Waukegan Regional Airport LOCATION: Waukegan, Illinois SHEET 1 OF 1			

LOG OF BORING NO. B-5 SHEET 1 OF 1

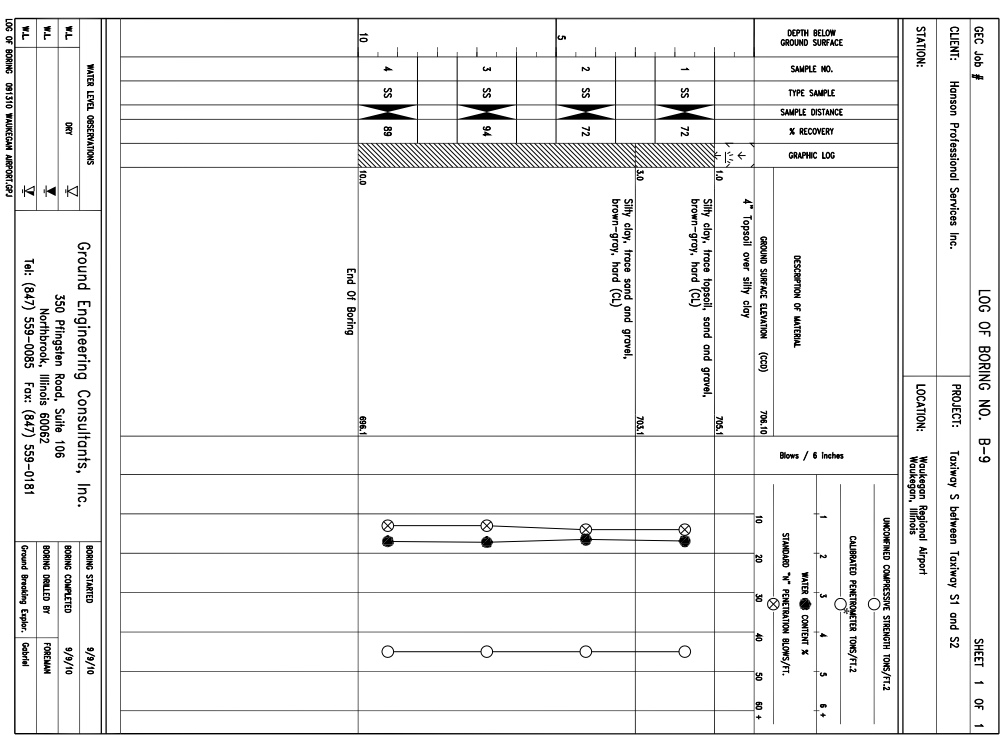
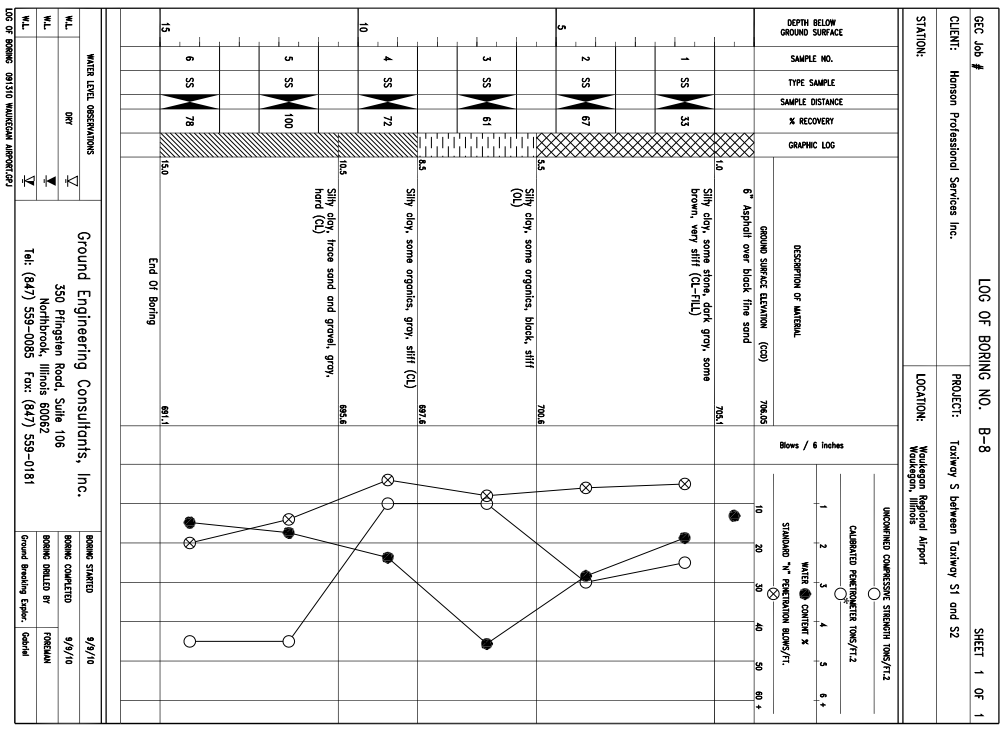
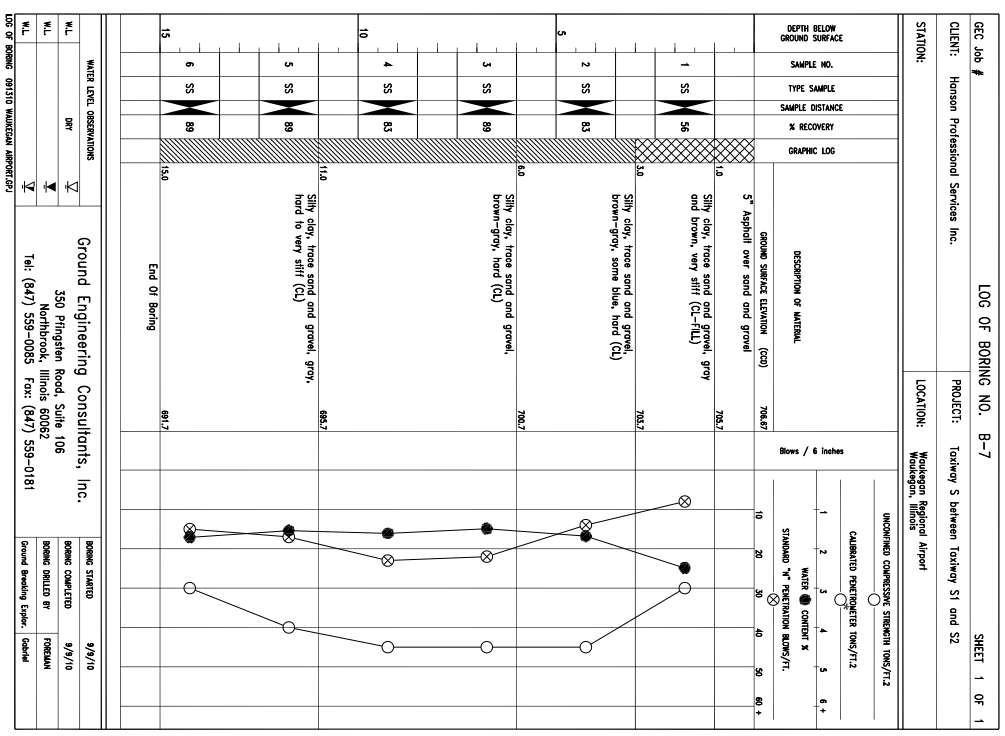
GEC Job #		Hanson Professional Services Inc.	
CLIENT:		Hanson Professional Services Inc.	
PROJECT:		Taxiway 5 between Taxiway S1 and S2	
STATION:		Waukegan Regional Airport Waukegan, Illinois	
LOCATION:		Waukegan, Illinois	
DEPTH BELOW GROUND SURFACE SAMPLE NO. TYPE SAMPLE SAMPLE DISTANCE X RECOVERY GRAPHIC LOG			
GROUND SURFACE ELEVATION (CG) 707.20 8" Asphalt over crushed stone base			
1 SS 67 Silty clay, trace sand and gravel, brown-gray, hard (CL-FHLL)			
2 SS 63 Silty clay, trace sand and gravel, brown-gray, hard (CL)			
3 SS 89 Silty clay, trace sand and gravel, gray, very stiff (CL)			
4 SS 67 Silty clay, trace sand and gravel, gray, very stiff (CL)			
5 SS 83 End of Boring			
UNCORRECTED COMPRESSION STRENGTH (TONS/FT ²) CALIBRATED PENETROMETER (TONS/FT ²) WATER CONTENT % STANDARD "N" PENETRATION (BLows)/FT.			
BORE LOG OBSERVATIONS W.L. 7.16 HRS. 48 GEC Job # CLIENT: Hanson Professional Services Inc. PROJECT: Taxiway 5 between Taxiway S1 and S2 STATION: Waukegan Regional Airport LOCATION: Waukegan, Illinois SHEET 1 OF 1			

LOG OF BORING NO. B-6 SHEET 1 OF 1

GEC Job #		Hanson Professional Services Inc.	
CLIENT:		Hanson Professional Services Inc.	
PROJECT:		Taxiway 5 between Taxiway S1 and S2	
STATION:		Waukegan Regional Airport Waukegan, Illinois	
LOCATION:		Waukegan, Illinois	
DEPTH BELOW GROUND SURFACE SAMPLE NO. TYPE SAMPLE SAMPLE DISTANCE X RECOVERY GRAPHIC LOG			
GROUND SURFACE ELEVATION (CG) 705.25 4" Topsoil over silty clay			
1 SS 78 Silty clay, trace sand and gravel, brown-gray, hard (CL)			
2 SS 89 Silty clay, trace sand and gravel, gray, very stiff (CL)			
3 SS 94 Silty clay, trace sand and gravel, gray, very stiff (CL)			
4 SS 72 Silty clay, trace sand and gravel, gray, very stiff (CL)			
5 SS 78 Silty clay, trace sand and gravel, gray, very stiff (CL)			
6 SS 100 End of Boring			
UNCORRECTED COMPRESSION STRENGTH (TONS/FT ²) CALIBRATED PENETROMETER (TONS/FT ²) WATER CONTENT % STANDARD "N" PENETRATION (BLows)/FT.			
BORE LOG OBSERVATIONS W.L. 14.31 HRS. 48 GEC Job # CLIENT: Hanson Professional Services Inc. PROJECT: Taxiway 5 between Taxiway S1 and S2 STATION: Waukegan Regional Airport LOCATION: Waukegan, Illinois SHEET 1 OF 1			

BORING LOGS 35 35 of 36 sheets	REHABILITATE AND WIDEN TAXIWAYS S BETWEEN TAXIWAY S1 AND S2 IDA No. UGN-4034 AIP No. 3-17-0105-B48	Copyright Hanson Professional Services Inc. 2011 Illinois Professional Design Firm Registration No. 184-001084 Hanson Professional Services Inc. 815 Commerce Drive, Suite 200 Oak Brook, Illinois 60523	HANSON No. 10A0035D Filename 35-BORING LOG.DWG Scale N/A Date OCTOBER 29, 2010	LAYOUT LDH 8/20/10 DRAWN LDH 8/20/10 REVIEWED RMH 10/28/10	WAUKEGAN REGIONAL AIRPORT WAUKEGAN PORT DISTRICT 3580 North McAree Road Waukegan, Illinois 60087 Telephone: 847.244.0066 Fax: 847.244.3813
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 Registration No. 184-001084
Hanson Professional Services Inc.
 815 Commerce Drive, Suite 200
 Oak Brook, Illinois 60523

Hanson No.	10A0035D	
Filename	36-BORING LOG.DWG	
Scale	N/A	
Date	OCTOBER 29, 2010	
LAYOUT	LDH	8/20/20
DRAWN	LDH	8/20/10
REVIEWED	RMH	10/28/10



WAUKEGAN REGIONAL AIRPORT
 WAUKEGAN PORT DISTRICT
 3580 North McAree Road
 Waukegan, Illinois 60087
 Telephone: 847.244.0066
 Fax: 847.244.3813

DATE	REVISION