

COUNTY OF IMPERIAL

NILAND COUNTY SANITATION DISTRICT WASTEWATER TREATMENT PLANT AND COLLECTION SYSTEM IMPROVEMENTS

FEBRUARY 14th, 2024

ADDENDUM NO. 4

The bidders are advised that the Contract Documents and Specifications for the above-referenced project are hereby amended per the statements in this Addendum.

1. For clarification purposes, the Project Description included on Page 1 of 50 of the Improvement Plans issued with Addendum Number 2 and dated October 18th, 2023 is abbreviated. The Project Description included in the Special Conditions Section 1, Volume 2 of 5 issued with Addendum 2 and dated January 18, 2024 offers a Project Description with a comprehensive narrative and complete listing of the major work items associated with the wastewater treatment plant, evaporation/infiltration ponds and collection system improvements.
2. Construction Water for the project can be obtained along the IID "R" Lateral at a location determined by the Imperial Irrigation District. Arrangements for purchasing construction water can be made by contacting the Imperial Irrigation District (IID) Office located at 5364 Hovley Road, Brawley, California 92227 at phone number (760) 482-9900; contact person Kirk Hale. The IID construction water cost is \$425.00 for the first 5 acre foot of water and \$85.00 per acre foot of water thereafter. There is a \$250 non-refundable Encroachment Permit Fee which must be filed at the IID Real Estate Department at 1699 West Main Street, Suite F, El Centro, California 92243 at phone number (760) 339-9381; contact Patty Casius. The Encroachment Permit must be filed at the IID Real Estate Department prior to requesting construction water from the IID Office at 5364 Hovley Road, Brawley, California 92227. A *"temporary application for water"* form will be required to be prepared at the IID Office at 5364 Hovley Road, Brawley California 92227. The Contactor shall be required to provide all pumps, upstream and downstream piping, meters and install and place the pump and water conveyance system at the project site in accordance with IID requirements.
3. Chemical Piping illustrated on the plans shall conform to the requirements of Chemical Piping Technical Specification Section 15707. Chemical piping injection tubing shall conform to Technical Specification Section 15707.2.03.B. Piping illustrated on the plans is intended to define the general layout, configuration, routing and required method of support, pipe size and type only. It is the responsibility of the Contractor to provide a complete system in accordance with the plans and Technical Specifications. Per Technical Specification Section 15707.2.03.D, "Chemical piping bends shall not exceed 45

degrees". Per Technical Specification Section 15707.2.03.E, "At all exposed changes in direction in chemical piping, elbows shall be provided with extra threaded openings plugged to facilitate cleaning." 2 inch schedule 80 pvc carrier pipelines passing through concrete walls or floors shall be installed through 316 stainless steel sleeves installed before concrete is placed. Contractor shall forward all required submittal information for review and approval by the Engineer in accordance with Technical Specification Section 15707.1.04

4. The Evaporation/Infiltration Pond Pump Station Control Panel "called out" by construction keynote 45 on plan sheet 24 shall be provided with an exterior mounted air conditioning unit. The air conditioning unit shall be equipped with a thermostat to maintain the temperature within the Pump Station Control Panel at no greater than 85 degrees Fahrenheit. Install all required electrical circuitry, transformers, breakers, etc. for the Pump Station Control Panel A.C. unit. Submittal information regarding the A.C unit is to be forwarded with the Pump Station Control Panel for review and approval by the Engineer.
5. Improvement plans 1 through 8 dated October 18, 2023, issued with Addendum Number 2 were revised to address State of California Department of Transportation Encroachment Permit review comments and are no longer valid. Improvement plans 1 through 8 dated October 18, 2023 are hereby replaced with Improvement plans 1 through 8 dated February 7, 2024 with a Title Sheet stamped "Addendum #4".
6. Questions forwarded regarding the Shade Structures for the Potable Water System, Sodium Hypochlorite Facility and Sodium Metabisulfite Facility were answered as follows:

6.1 Question: Can you please confirm we have three (3) shade structures?

6.1 Answer: Yes, there are three (3) shade structures.

6.1.1 See Detail H and Section E-E on plan sheet 5 of 50.

6.1.2 See new 4,350-gallon Sodium Hypochlorite Tank Blow-up Plan on plan sheet 9 of 50 and new 4,350-gallon Sodium Hypochlorite Structure Cross-Section K-K on plan sheet 10 of 50.

6.1.3 See new 2,500-gallon Sodium Metabisulfite Tank Blow-up Plan on plan sheet 9 of 50 and new 2,500-gallon Sodium Metabisulfite Structure Cross Section L-L on plan sheet 10 of 50.

6.2 Question: Can you please confirm the dimensions: 30' x 24' x 12' along with 24' x 36' x 12' and finally 20' x 32' x 12'?

6.2 Answer: Yes, the dimensions are correct; Potable Water System shade structure is 30' x 24' x 12' per plan sheet 5 of 50; Sodium Hypochlorite shade structure is 24' x 36' x 12' per plan sheet 9 of 50; and Sodium Metabisulfite shade structure is 20' x 32' x 12' per plan sheet 9 of 50. The length and width dimensions are measured from center of support column to center of support column.

6.3 Question: When I looked on the written specification ... I didn't see any hot dipped galvanized steel nor did I see stainless steel hardware included. The structure will rust/corrode rather quickly unless the steel is treated and the

hardware is stainless steel. Is it safe to assume that when I submit my proposal to the General Contractors?

6.3 Answer Sections E-E, L-L and K-K on plan sheets 5 and 10 of 50 state, "Shade structure shall be constructed with hot-dip galvanization (HDG) steel and stainless steel hardware."

END OF ADDENDUM NO. 4

Prepared by:



John Gay, P.E.
Public Works Director
County of Imperial

Date: February 14, 2024

Addendum No. 04 Acknowledgement

The Bidder is responsible for advising any and all subcontractors and suppliers of this addendum. Each bidder must acknowledge receipt of this addendum in the noted space below and where indicated in the Bid Form. This sheet of the addendum is to be signed by the Bidder and submitted with the Bid.

Print or Type Bidder's Name: _____

Print or Type Authorized Name: _____

Authorized Signature of Bidder: _____

Date Signed: _____

SHEET INDEX

1. TITLE SHEET
2. HIGHWAY 111 - SANITARY SEWER PIPELINE AND MANHOLE IMPROVEMENT PLAN - STA 346+10 TO STA 375+62.
3. HIGHWAY 111 AND ALCOTT ROAD SANITARY SEWER PIPELINE PLAN AND PROFILE - STA 346+10 TO STA 349+35.
4. HIGHWAY 111 AND NOFFSINGER ROAD SANITARY SEWER PLAN AND PROFILE - STA 372+18 TO STA 375+20.
5. SANITARY SEWER SECTIONS AND DETAILS
6. TRAFFIC CONTROL PLAN
7. TRAFFIC CONTROL PLAN
8. WATER POLLUTION CONTROL PROGRAM

REVISOR
DATE

DATE

CALCULATED/
DESIGNED BY

CHECKED BY

PROJECT ENGINEER

THE HOLT GROUP, INC.

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION PROJECT PLANS FOR CONSTRUCTION ON STATE ROUTE IN IMPERIAL COUNTY ON SR 111 COUNTY OF IMPERIAL - NILAND WASTE WATER TREATMENT PLANT AND COLLECTION SYSTEM IMPROVEMENTS

PERMIT NUMBER 11- XXX
CO IMP RTE 111 PM R39.589 - R40.089
AS-BUILT PLANS FOR ROADWAY GEOMETRIC
AND ABOVE GROUND FEATURES

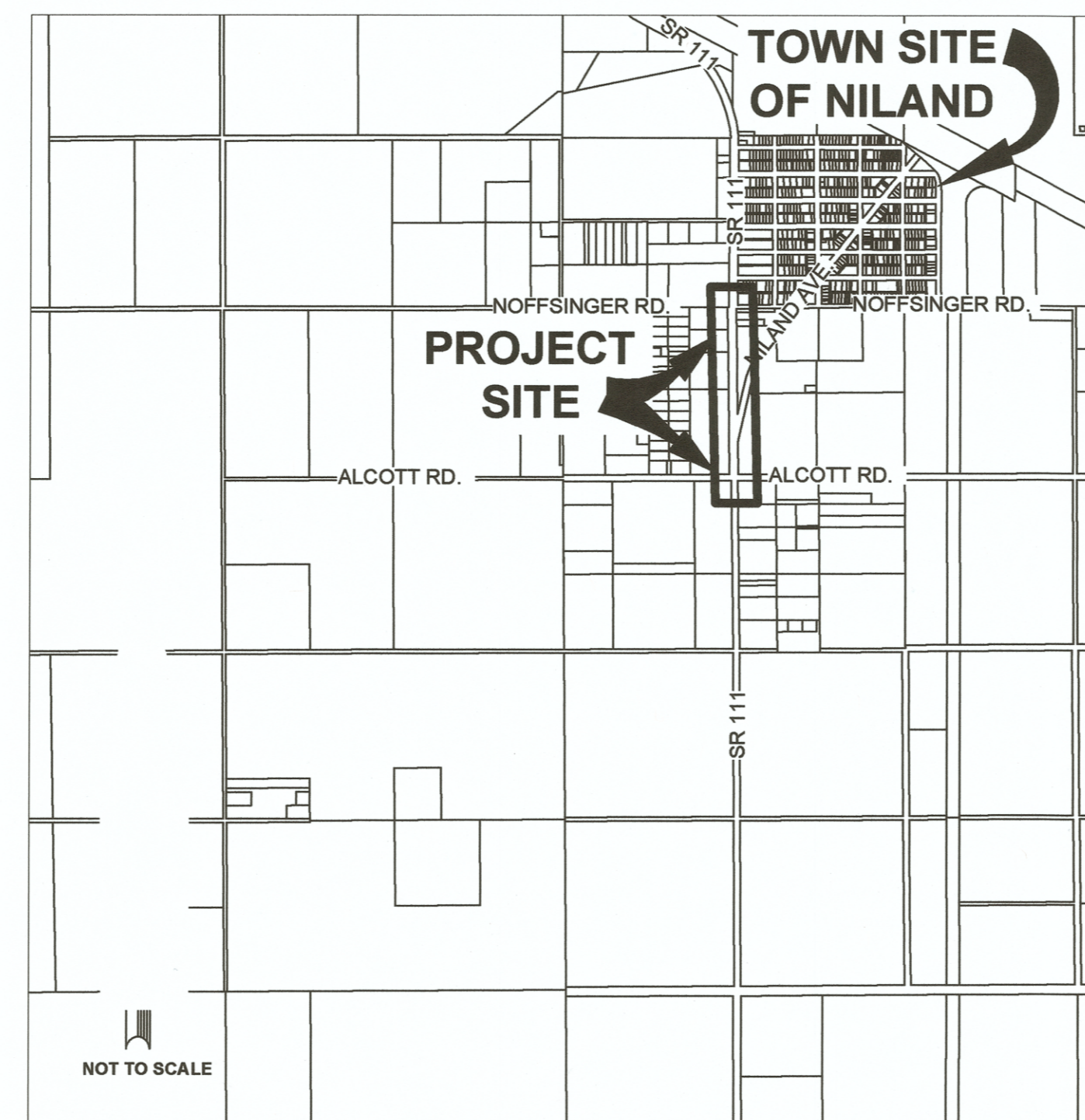
STATE REPRESENTATIVE _____ DATE _____

DIST	COUNTY	ROUTE	MILE POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	IMPERIAL	111	PM R39.589 & R40.089	1	8



LOCATION MAP

VICINITY MAP



ABBREVIATIONS

AGG.	AGGREGATE
APPROX.	APPROXIMATE
A.C.	ASPHALT CONCRETE
B.C.	BEGINNING OF CURVE RADIUS
BLDG.	BUILDING
CBO	CHIEF BUILDING OFFICIAL
CO	CLEANOUT
CL	CENTERLINE
C2B	CLASS 2 BASE
DIA.	DIAMETER
DCO	DOUBLE CLEANOUT
D/W	DRIVEWAY
Δ	DELTA
E.P.	EDGE OF PAVEMENT
E	EAST / ELECTRICAL
EL.	ELEVATION
E.C.	END OF CURVE RADIUS
F.F.	FINISH FLOOR ELEVATION
FP	FIRE PROTECTION
FL	FLOWLINE
F.S.	FINISH SURFACE
IRR	IRRIGATION
L	LENGTH
MAX.	MAXIMUM
MIN.	MINIMUM
MISC.	MISCELLANEOUS
N	NORTH
NS	NATIVE SURFACE
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OHE	OVERHEAD ELECTRICAL LINE
P.E.	PAD ELEVATION
%	PERCENT
P.C.C.	PORTLAND CEMENT CONCRETE
POC	POINT OF CONNECTION
P.P.	POWER POLE
P.V.C.	POLY VINYL CHLORIDE
R	RADIUS/ RIGHT
R.C.P.	REINFORCED CONCRETE PIPE
RE	RESIDENT ENGINEER
R/W	RIGHT-OF-WAY
S	SOUTH / SLOPE
SS	SANITARY SEWER / STAINLESS STEEL
SSFM	SANITARY SEWER FORCE MAIN
TBM	TEMPORARY BENCHMARK
T.C.	TOP OF CURB OR TOP OF CONCRETE
T.P.	TOP OF PAVEMENT
W	WEST / WATER

CONSTRUCTION SYMBOLS

ITEM NO.	DESCRIPTION	SYMBOL
1	EXISTING A.C. PAVEMENT	[Solid Grey Box]
2	PIPE TRENCH IN PAVEMENT AREAS	[Hatched Box]
3	TRENCH IN NATIVE AREAS	[Diagonal Hatched Box]
4	P.C.C. STRUCTURES	[White Box]
5	SIGNS / POSTS	[T-shaped Symbol]
6	POWER POLE	[Circle with Center Dot]
7	GUY WIRE	[Line with Circle End]
8	STREET LIGHT	[Light Fixture Symbol]
9	FOUND MONUMENT	[Circle with M]
10	TELEPHONE (AT&T) ENCLOSURE	[Circle with T]
11	WATER VALVE	[Circle with W]
12	WATER METER	[Square with WM]
13	FIRE HYDRANT	[Circle with H]
14	EXISTING TREE	[Circle with Tree]
15	EXISTING PALM TREE	[Circle with Palm]
16	RIGHT OF WAY	[Line with Arrow]
17	LIMITS OF CONSTRUCTION	[Thick Line]
18	SANITARY MANHOLE	[Circle with S]
19	WATER PIPELINE	[Line with W]
20	GAS PIPELINE	[Line with G]
21	SANITARY SEWER PIPELINE	[Line with SS]
22	CENTER LINE	[Line with CL]
23	STORM DRAIN MANHOLE	[Circle with SD]
24	MASONRY WALL	[Hatched Line]
25	EXISTING FENCE	[Line with X]
26	SANITARY SEWER CLEANOUT	[Circle with CO]
27	AERIAL TARGET	[Triangle with A]
28	BENCHMARK	[Circle with B]
29	COLD PLANE/A.C. PAVEMENT MILLING AREA	[Hatched Box]
30	EDGE OF PAVEMENT	[Line with Dashed]

ADDENDUM #4

JAMES G. "JACK" HOLT
PROJECT ENGINEER
REGISTERED CIVIL ENGINEER, 31773

02/07/2024
DATE



PLANS APPROVAL DATE



TITLE SHEET
NTS

PROJECT: COUNTY OF IMPERIAL - NILAND WASTE WATER TREATMENT PLANT AND COLLECTION SYSTEM IMPROVEMENTS.
IMPERIAL COUNTY PUBLIC WORKS
155 S 11TH ST
EL CENTRO, CA 92243
THE HOLT GROUP, INC.
1601 NORTH IMPERIAL AVENUE
EL CENTRO, CA 92243
CONTRACT NO.



Underground Service Alert
Call: TOLL FREE
811

TWO WORKING DAYS BEFORE DIGGING

BENCH MARK

BRASS DISK LOCATED AT THE SOUTH WEST INTERSECTION OF ALCOTT ROAD AND STATE ROUTE 111. BRASS DISK LOCATED ALONG THE MOST SOUTHERN AND EASTERLY CORNER OF THE P.C.C. HEADWALL OF THE IMPERIAL IRRIGATION R LATERAL CANAL. EL. 634.90

APPROVED FOR THE COUNTY OF IMPERIAL

BY: John Gay
JOHN GAY, P.E.
DIRECTOR OF PUBLIC WORKS

62028
RCE NO.

02-07-2024
DATE

STATE REPRESENTATIVE				DATE	
DIST	COUNTY	ROUTE	MILE POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	IMPERIAL	111	PM R39.589 - R40.089	2	8

02/07/2023
 DATE

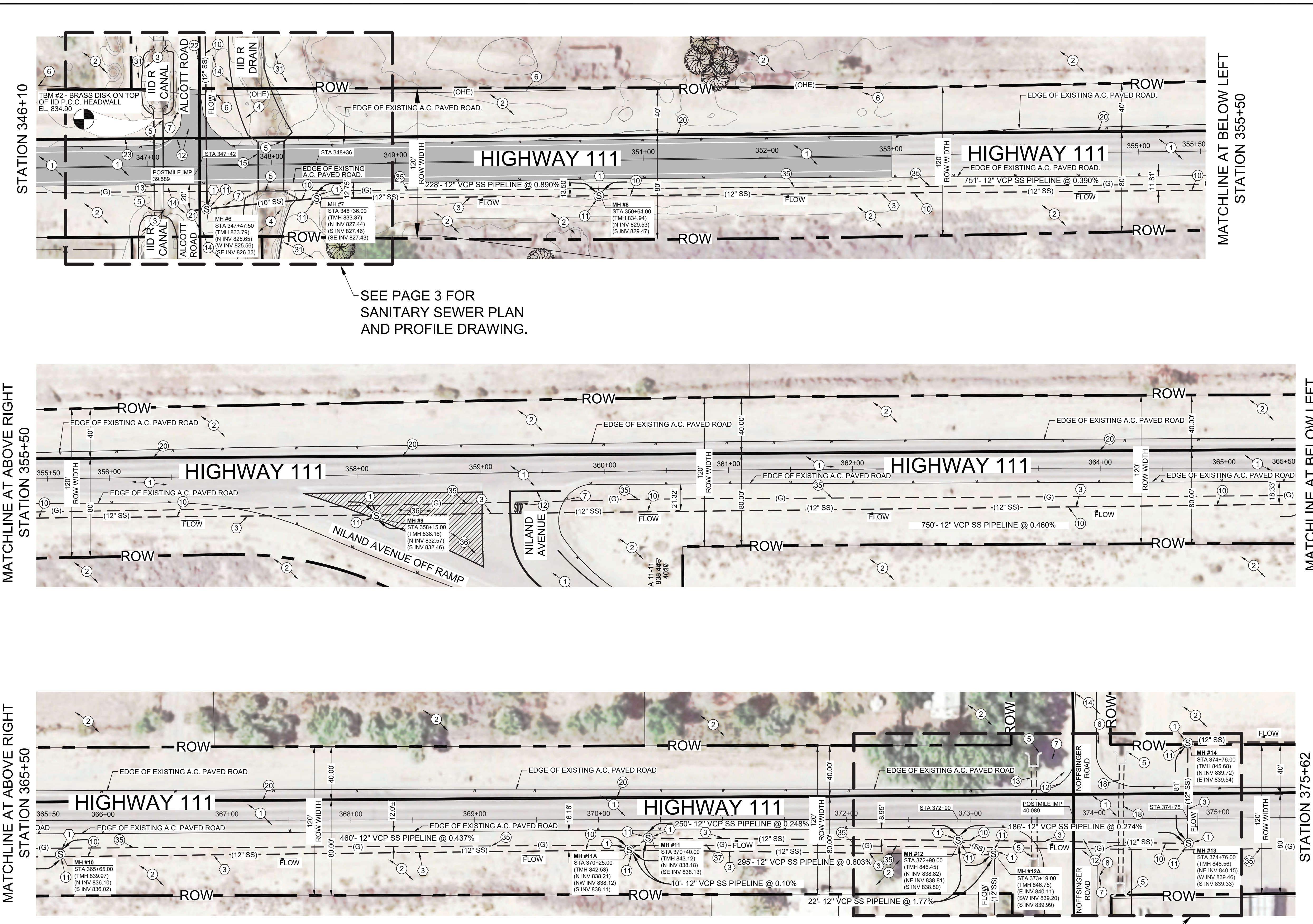
JAMES G. "JACK" HOLT
 PROJECT ENGINEER
 REGISTERED CIVIL ENGINEER, 31773

PLANS APPROVAL DATE
 IMPERIAL COUNTY PUBLIC WORKS
 115 S 11TH STREET
 EL CENTRO, CA 92243

THE HOLT GROUP, INC.
 1601 NORTH IMPERIAL AVENUE
 EL CENTRO, CA 92243

- EXISTING KEYNOTES**
- EXISTING A.C. PAVEMENT.
 - EXISTING NATIVE MATERIAL.
 - EXISTING EARTH LINED IID R CANAL.
 - EXISTING EARTH LINED IID R DRAIN.
 - EXISTING P.C.C. IID HEADWALL STRUCTURE.
 - EXISTING IID POWER POLE.
 - EXISTING STOP SIGN.
 - EXISTING STREET NAME SIGN.
 - EXISTING AT&T ENCLOSURE.
 - EXISTING SANITARY SEWER PIPELINE.
 - EXISTING SANITARY SEWER MANHOLE.
 - EXISTING STOP LEGEND AND STOP BAR.
 - EXISTING UNDERGROUND CANAL PIPELINE TO REMAIN.
 - EXISTING DIRT ROADWAY.
 - EXISTING IID R DRAIN PCC BOX DRAIN CULVERT
 - EXISTING CENTERLINE STRIPING.
 - EXISTING EDGE LINE STRIPING.
 - EXISTING UNDERGROUND DRAIN PIPELINE TO REMAIN.
 - SEARCH, NOT FOUND, CENTER 1/4 CORNER OF SECTION 9, TOWNSHIP 11 SOUTH, RANGE 14 EAST, SAN BERNARDINO MERIDIAN PER ROS 10-7 FILED AT THE COUNTY OF IMPERIAL RECORDERS OFFICE ON 2/26/1992.
 - 1/4 SECTION LINE BETWEEN THE CENTER 1/4 CORNER AND NORTH 1/4 CORNER OF SECTION 9, TOWNSHIP 11 SOUTH, RANGE 14 EAST, SAN BERNARDINO MERIDIAN PER ROS 10-7 FILED AT THE IMPERIAL COUNTY RECORDERS OFFICE ON 2/26/1992.
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 - TOP OF CANAL SLOPE.
 - TOP OF DRAIN SLOPE.
 - DRAIN CHANNEL.
 - SIPHON BEGINS AT CONNECTION OF 10" VCP SANITARY SEWER GRAVITY PIPELINE TO 8" PVC SANITARY SEWER SIPHON PIPELINE.
 - SIPHON ENDS AT CONNECTION OF 8" PVC SANITARY SEWER SIPHON PIPELINE TO 10" VCP SANITARY SEWER GRAVITY PIPELINE.
 - EDGE OF DIRT ROAD.
 - EXISTING A.C. PAVEMENT STOPS.
 - I.I.D. DIRT CANAL OR DRAIN ACCESS ROAD.
 - EXISTING EARTH LINED I.I.D. "S" CANAL.
 - EXISTING EARTH LINED I.I.D. "S" DRAIN.
 - S 1/4 CORNER, SECTION 10, T.11S., R.14E., SBB&M PER PM 51/41, PM 8/8, ROS 11/46, ROS 10/17 AND ROS 20/24.
 - EXISTING GAS PIPELINE. EXACT HORIZONTAL LOCATION, DEPTH AND DIAMETER SIZE UNKNOWN.
 - NO TRAFFIC AREA.
 - EXISTING GAS SIGN.

- CONSTRUCTION KEYNOTES**
- THE CONTRACTOR SHALL REHABILITATE THE EXISTING MANHOLE IN CONFORMANCE WITH DETAIL B ON PLAN SHEET 5.
 - CONSTRUCT NEW 10 INCH DIAMETER SDR 26 PVC PIPELINE SECTION BETWEEN THE PIPELINE SIPHON AND MANHOLE NUMBER 6. INSTALL FERNCO ECCENTRIC 8" X 10" COUPLING WITH 316 SS BANDS AND OTHER JUNCTION FITTINGS AS REQUIRED.
 - INSTALL CURED-IN-PLACE PIPE (C.I.P.P.) MATERIAL WITHIN THE EXISTING 12-INCH DIAMETER SDR 35 PVC PIPE WITHIN THE HIGHWAY 111 RIGHT-OF-WAY.

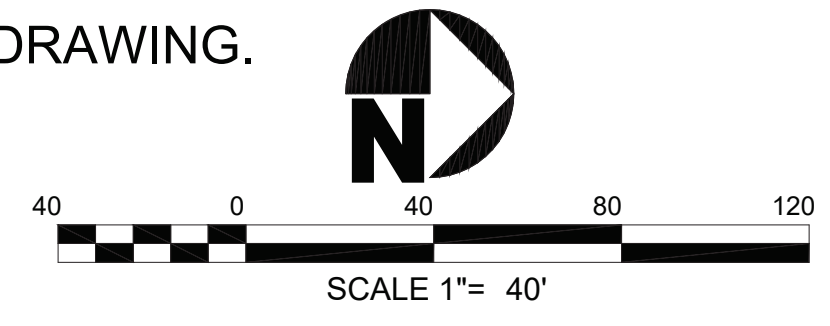


SEE PAGE 3 FOR
 SANITARY SEWER PLAN
 AND PROFILE DRAWING.

SEE PAGE 4 FOR
 SANITARY SEWER PLAN
 AND PROFILE DRAWING.

MANHOLE REHABILITATION AND CURE-IN-PLACE PIPE (C.I.P.P.) QUANTITIES

ITEM	QUANTITY
MANHOLE REHABILITATION (EACH)	11 EACH
12" VCP PIPELINE - (C.I.P.P.)	3,025 LINEAR FEET



REVISOR: THE HOLT GROUP, INC.
 PROJECT ENGINEER: [Signature]
 CHECKED BY: [Signature]
 DATE: [Blank]
 CALCULATED/DESIGNED BY: [Blank]
 DATE: [Blank]

THG PROJECT NO. 542.089
 DATE PLOTTED=> 02-07-2024
 TIME PLOTTED=> 01:33 PM
 LAST REVISION: 02-07-2024

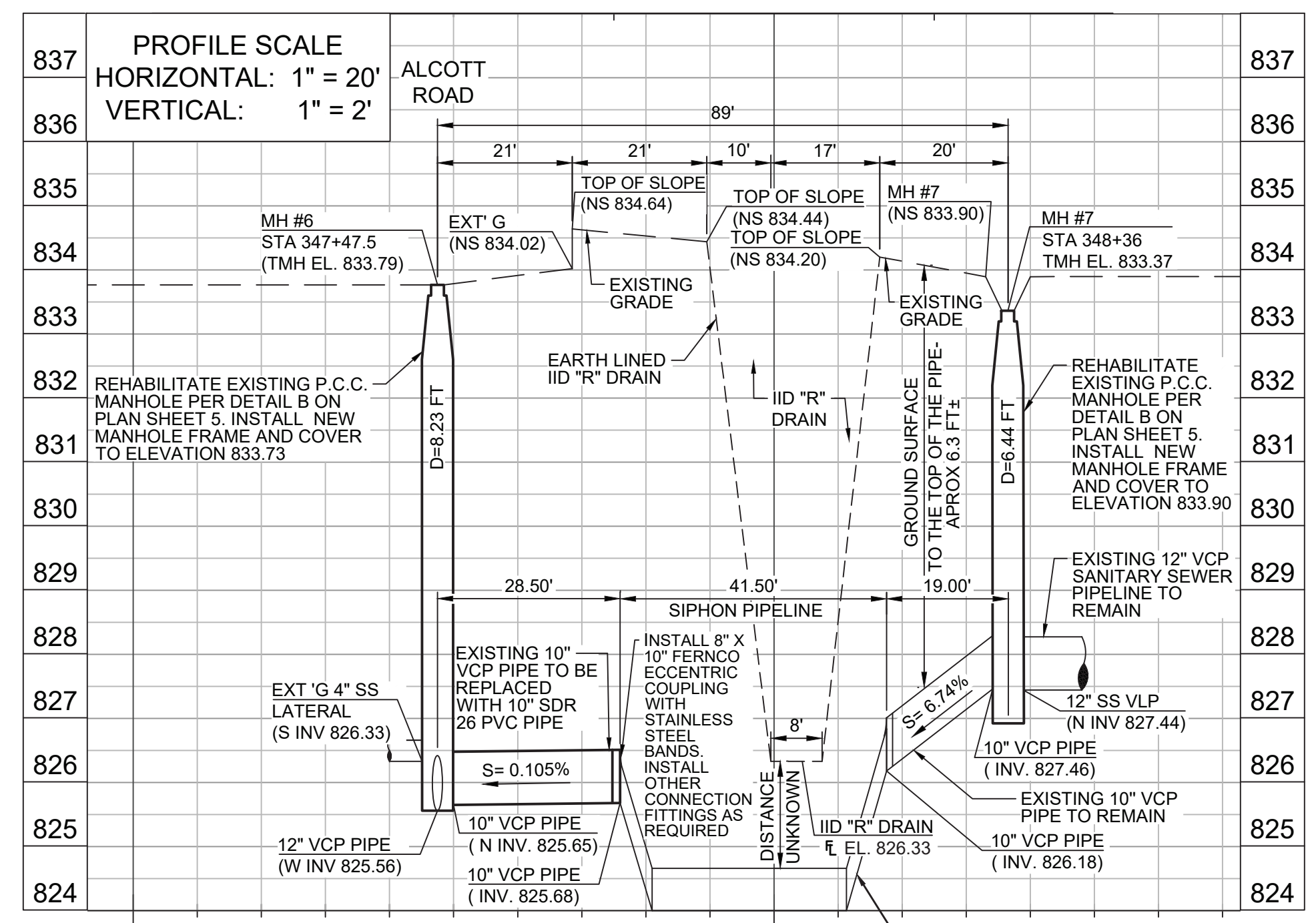
DIST	COUNTY	ROUTE	MILE POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	IMPERIAL	111	PM R39.589 - R40.089	3	8

02/07/2023
 DATE

JAMES G. "JACK" HOLT
 PROJECT ENGINEER
 REGISTERED CIVIL ENGINEER, 31773

PLANS APPROVAL DATE
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 115 S 11TH STREET
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 1601 NORTH IMPERIAL AVENUE
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347+00 348+00

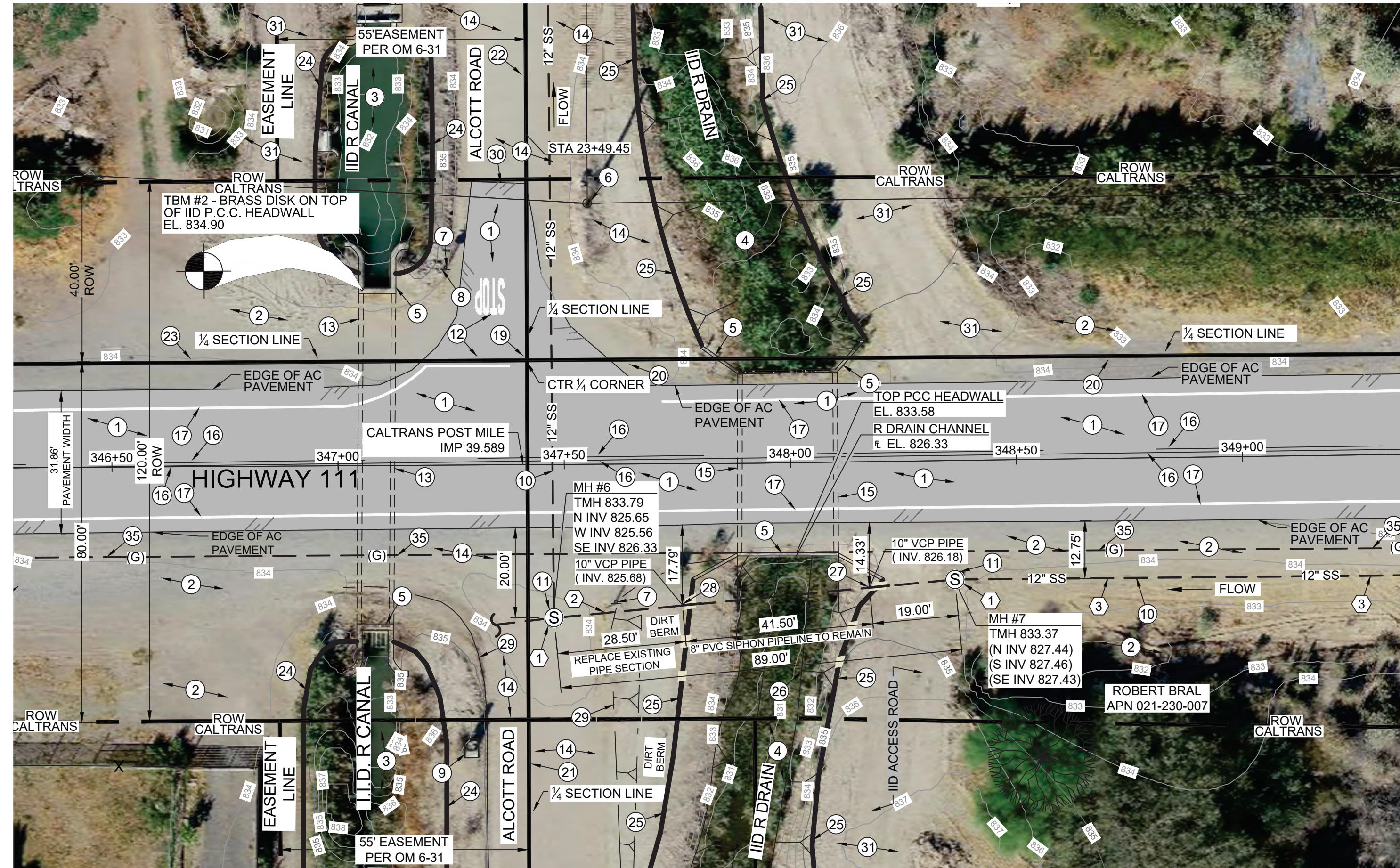
THE 8 INCH PVC SANITARY SEWER SIPHON PIPELINE EXTENDING BENEATH THE IMPERIAL IRRIGATION DISTRICT "R" DRAIN WAS AIR TESTED BETWEEN THE BEGINNING AND END POINTS OF THE 8 INCH SIPHON PIPELINE ON APRIL 6TH, 2022. THE AIR TEST WAS WITNESSED BY THE CONSULTING DESIGN ENGINEER ENGAGED BY THE COUNTY OF IMPERIAL TO COMPLETE THE NILAND COUNTY STATION DISTRICT WASTEWATER TREATMENT PLANT AND COLLECTION SYSTEM IMPROVEMENTS AND THE ENGINEER HAS STAMPED AND SIGNED THE IMPROVEMENT PLAN DRAWINGS; JAMES G. HOLT, P.E. - CALIFORNIA CIVIL ENGINEERING LICENSE NUMBER 31,773. THE 8 INCH PVC SANITARY SEWER SIPHON PIPELINE WAS AIR TESTED AT 5 PSI. THE 8 INCH PVC SIPHON PIPELINE HELD 5 PSI PRESSURE FOR 5 MINUTES AND SUCCESSFULLY PASSED THE AIR TEST. THE SIPHON PIPELINE IS LEAK PROOF AND THERE IS NO WATER INFILTRATING INTO THE SIPHON PIPELINE AND NO WASTEWATER EXFILTRATING FROM THE SIPHON PIPELINE. THE EXISTING 8 INCH PVC SANITARY SEWER SIPHON PIPELINE SHALL THEREFORE BE MAINTAINED IN SERVICE IN ITS EXISTING CONDITION.

EXISTING KEYNOTES

- 1 EXISTING A.C. PAVEMENT.
- 2 EXISTING NATIVE MATERIAL.
- 3 EXISTING EARTH LINED IID R CANAL.
- 4 EXISTING EARTH LINED IID R DRAIN.
- 5 EXISTING P.C.C. IID HEADWALL STRUCTURE.
- 6 EXISTING IID POWER POLE.
- 7 EXISTING STOP SIGN.
- 8 EXISTING STREET NAME SIGN.
- 9 EXISTING AT&T ENCLOSURE.
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- 11 EXISTING SANITARY SEWER MANHOLE.
- 12 EXISTING STOP LEGEND AND STOP BAR.
- 13 EXISTING UNDERGROUND CANAL PIPELINE TO REMAIN.
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- 28 SIPHON ENDS AT CONNECTION OF 8" PVC SANITARY SEWER SIPHON PIPELINE TO 10" VCP SANITARY SEWER GRAVITY PIPELINE.
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- 37 EXISTING GAS SIGN.

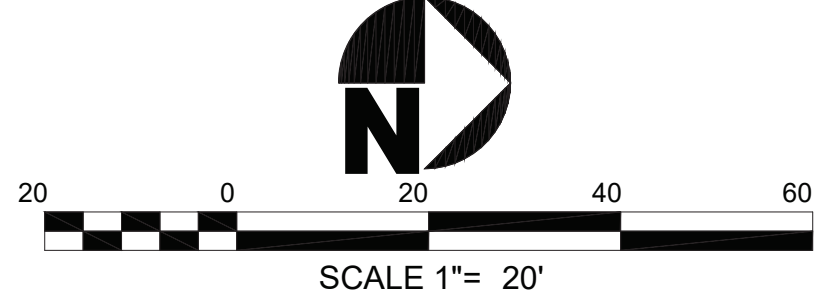
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- 3 INSTALL CURED-IN-PLACE PIPE (C.I.P.P.) MATERIAL WITHIN THE EXISTING 12-INCH DIAMETER SDR 35 PVC PIPE WITHIN THE HIGHWAY 111



STATION 346+10

STATION 349+35 - SEE PAGE 2 FOR CONTINUATION



HIGHWAY 111 AND ALCOTT ROAD SANITARY SEWER PIPELINE AND MANHOLE IMPROVEMENT PLAN- STA 346+10 TO STA 349+35

REVISOR BY DATE

DATE

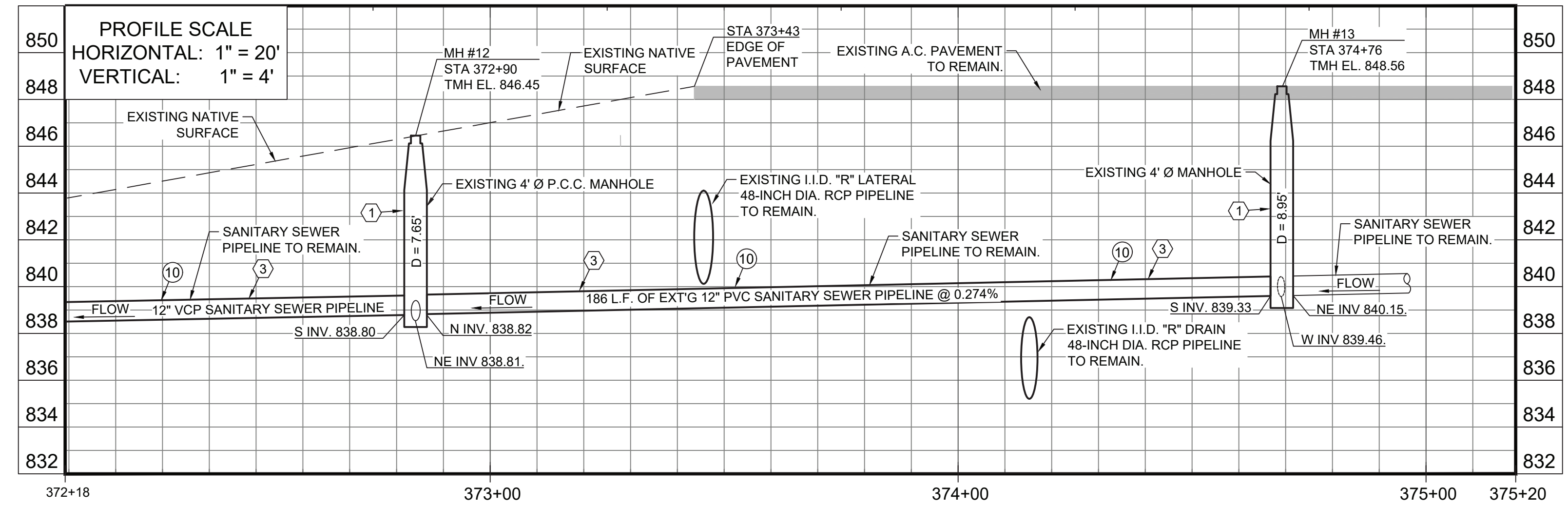
CALCULATED/DESIGNED BY CHECKED BY

PROJECT ENGINEER

THE HOLT GROUP, INC.

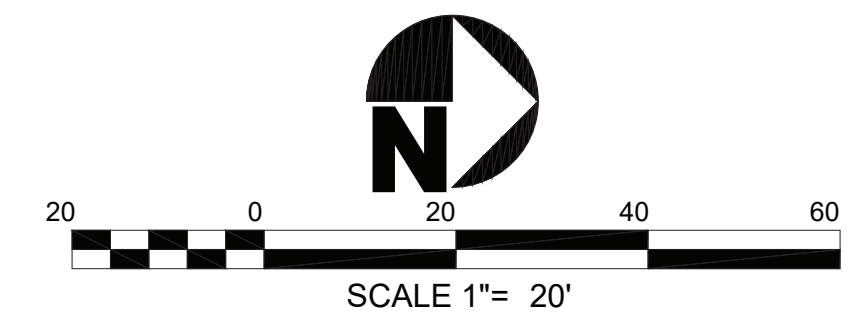
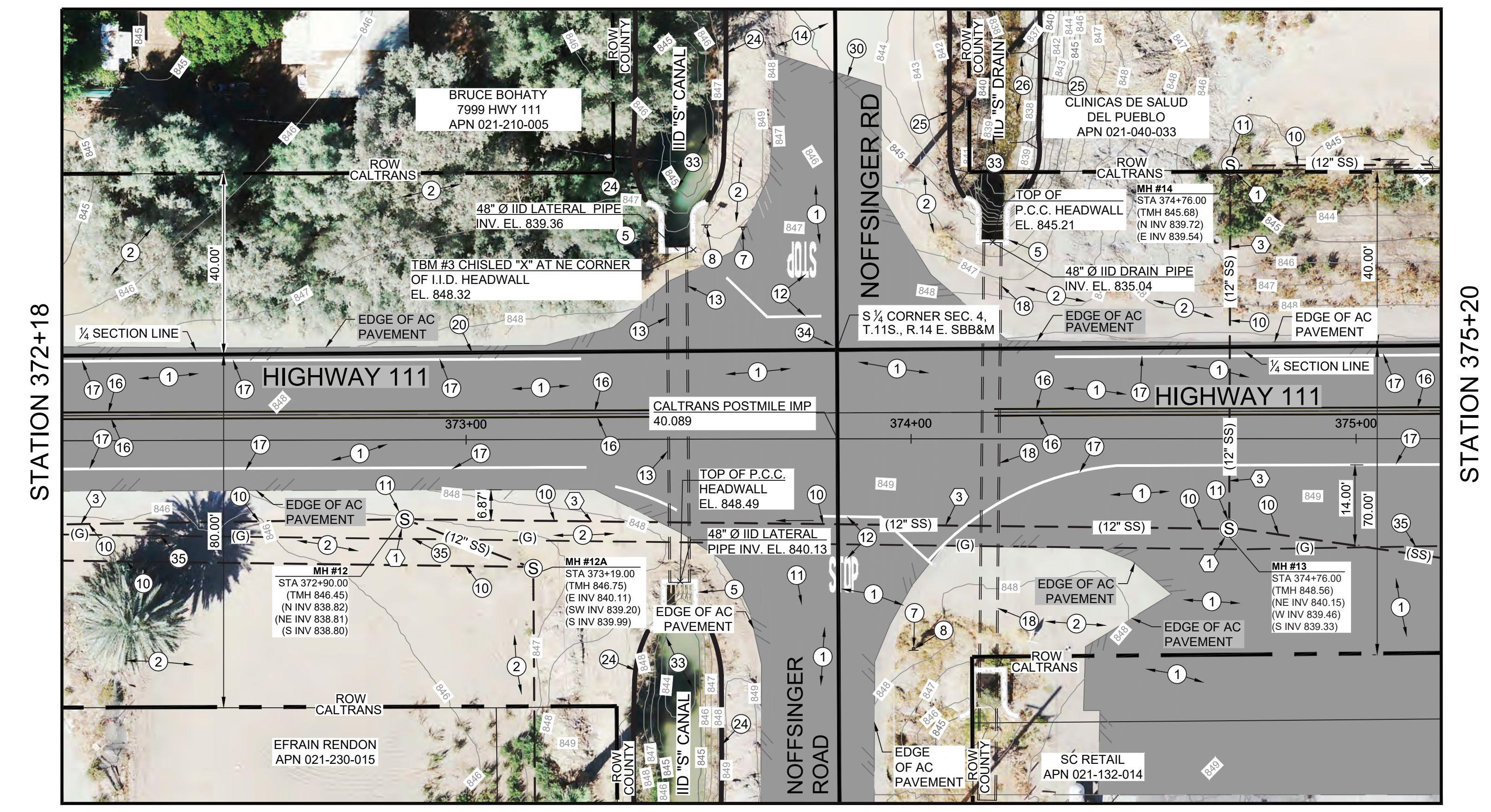
THE HOLT GROUP, INC. PROJECT ENGINEER
 CALCULATED/DESIGNED BY
 CHECKED BY
 DATE
 REVISIONS
 DATE REVISION
 DATE REVISION

PERMIT NUMBER 11- XXX					
CO IMP RTE 111 PM R39.589 - R40.089					
AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES					
STATE REPRESENTATIVE					DATE
DIST	COUNTY	ROUTE	MILE POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	IMPERIAL	111	PM R39.589 - R40.089	4	8
JAMES G. "JACK" HOLT PROJECT ENGINEER REGISTERED CIVIL ENGINEER, 31773 DATE 02/07/2023					
PLANS APPROVAL DATE IMPERIAL COUNTY PUBLIC WORKS 115 S 11TH STREET EL CENTRO, CA 92243					
THE HOLT GROUP, INC. 1601 NORTH IMPERIAL AVENUE EL CENTRO, CA 92243					



EXISTING KEYNOTES

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- 12 EXISTING STOP LEGEND AND STOP BAR.
- 13 EXISTING UNDERGROUND CANAL PIPELINE TO REMAIN.
- 14 EXISTING DIRT ROADWAY.
- 15 EXISTING IID R DRAIN PCC BOX DRAIN CULVERT
- 16 EXISTING CENTERLINE STRIPING.
- 17 EXISTING EDGE LINE STRIPING.
- 18 EXISTING UNDERGROUND DRAIN PIPELINE TO REMAIN.
- 19 SEARCH, NOT FOUND, CENTER 1/4 CORNER OF SECTION 9, TOWNSHIP 11 SOUTH, RANGE 14 EAST, SAN BERNARDINO MERIDIAN PER ROS 10-7 FILED AT THE COUNTY OF IMPERIAL RECORDERS OFFICE ON 2/26/1992.
- 20 1/2 SECTION LINE BETWEEN THE CENTER 1/4 CORNER AND NORTH 1/4 CORNER OF SECTION 9, TOWNSHIP 11 SOUTH, RANGE 14 EAST, SAN BERNARDINO MERIDIAN PER ROS 10-7 FILED AT THE IMPERIAL COUNTY RECORDERS OFFICE ON 2/26/1992.
- 21 1/2 SECTION LINE BETWEEN THE CENTER 1/4 CORNER AND EAST 1/4 CORNER OF SECTION 9, TOWNSHIP 11 SOUTH, RANGE 14 EAST, SAN BERNARDINO MERIDIAN PER ROS 10-7 FILED AT THE IMPERIAL COUNTY RECORDERS OFFICE ON 2/26/1992.
- 22 1/2 SECTION LINE BETWEEN THE CENTER 1/4 CORNER AND WEST 1/4 CORNER OF SECTION 9, TOWNSHIP 11 SOUTH, RANGE 14 EAST, SAN BERNARDINO MERIDIAN PER ROS 10-7 FILED AT THE IMPERIAL COUNTY RECORDERS OFFICE ON 2/26/1992.
- 23 1/2 SECTION LINE BETWEEN THE CENTER 1/4 CORNER AND SOUTH 1/4 CORNER OF SECTION 9, TOWNSHIP 11 SOUTH, RANGE 14 EAST, SAN BERNARDINO MERIDIAN PER ROS 10-7 FILED AT THE IMPERIAL COUNTY RECORDERS OFFICE ON 2/26/1992.
- 24 TOP OF CANAL SLOPE.
- 25 TOP OF DRAIN SLOPE.
- 26 DRAIN CHANNEL.
- 27 SIPHON BEGINS AT CONNECTION OF 10" VCP SANITARY SEWER GRAVITY PIPELINE TO 8" PVC SANITARY SEWER SIPHON PIPELINE.
- 28 SIPHON ENDS AT CONNECTION OF 8" PVC SANITARY SEWER SIPHON PIPELINE TO 10" VCP SANITARY SEWER GRAVITY PIPELINE.
- 29 EDGE OF DIRT ROAD.
- 30 EXISTING A.C. PAVEMENT STOPS.
- 31 I.I.D. DIRT CANAL OR DRAIN ACCESS ROAD.
- 32 EXISTING EARTH LINED I.I.D. "S" CANAL.
- 33 EXISTING EARTH LINED I.I.D. "S" DRAIN.
- 34 S 1/2 CORNER, SECTION 10, T.11S., R.14E., SBB&M PER PM 51/41, PM 8/8, ROS 11/46, ROS 10/17 AND ROS 20/24.
- 35 EXISTING GAS PIPELINE, EXACT HORIZONTAL LOCATION, DEPTH AND DIAMETER SIZE UNKNOWN.
- 36 NO TRAFFIC AREA.
- 37 EXISTING GAS SIGN.

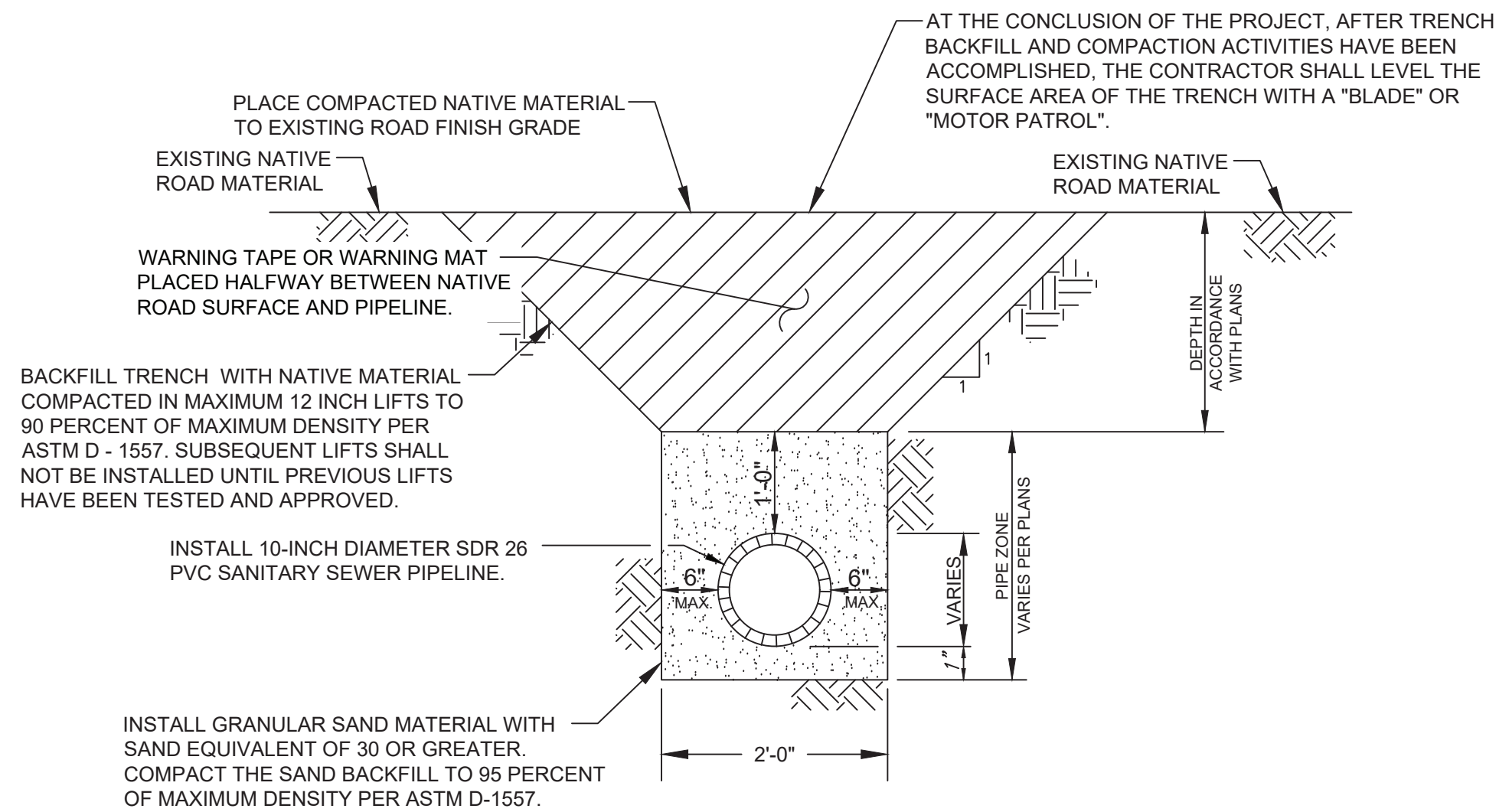


**HIGHWAY 111 AND NOFFSINGER ROAD
 SANITARY SEWER PIPELINE AND MANHOLE
 IMPROVEMENT PLAN- STA 372+18 TO STA 375+20**

- CONSTRUCTION KEYNOTES**
- 1 THE CONTRACTOR SHALL REHABILITATE THE EXISTING MANHOLE IN CONFORMANCE WITH DETAIL B ON PLAN SHEET 5.
 - 2 CONSTRUCT NEW 10 INCH DIAMETER SDR 26 PVC PIPELINE SECTION BETWEEN THE PIPELINE SIPHON AND MANHOLE NUMBER 6. INSTALL FERNCO ECCENTRIC 8" X 10" COUPLING WITH 316 SS BANDS AND OTHER JUNCTION FITTINGS AS REQUIRED.
 - 3 INSTALL CURED-IN-PLACE PIPE (C.I.P.P.) MATERIAL WITHIN THE EXISTING 12-INCH DIAMETER SDR 35 PVC PIPE WITHIN THE HIGHWAY 111 RIGHT-OF-WAY.

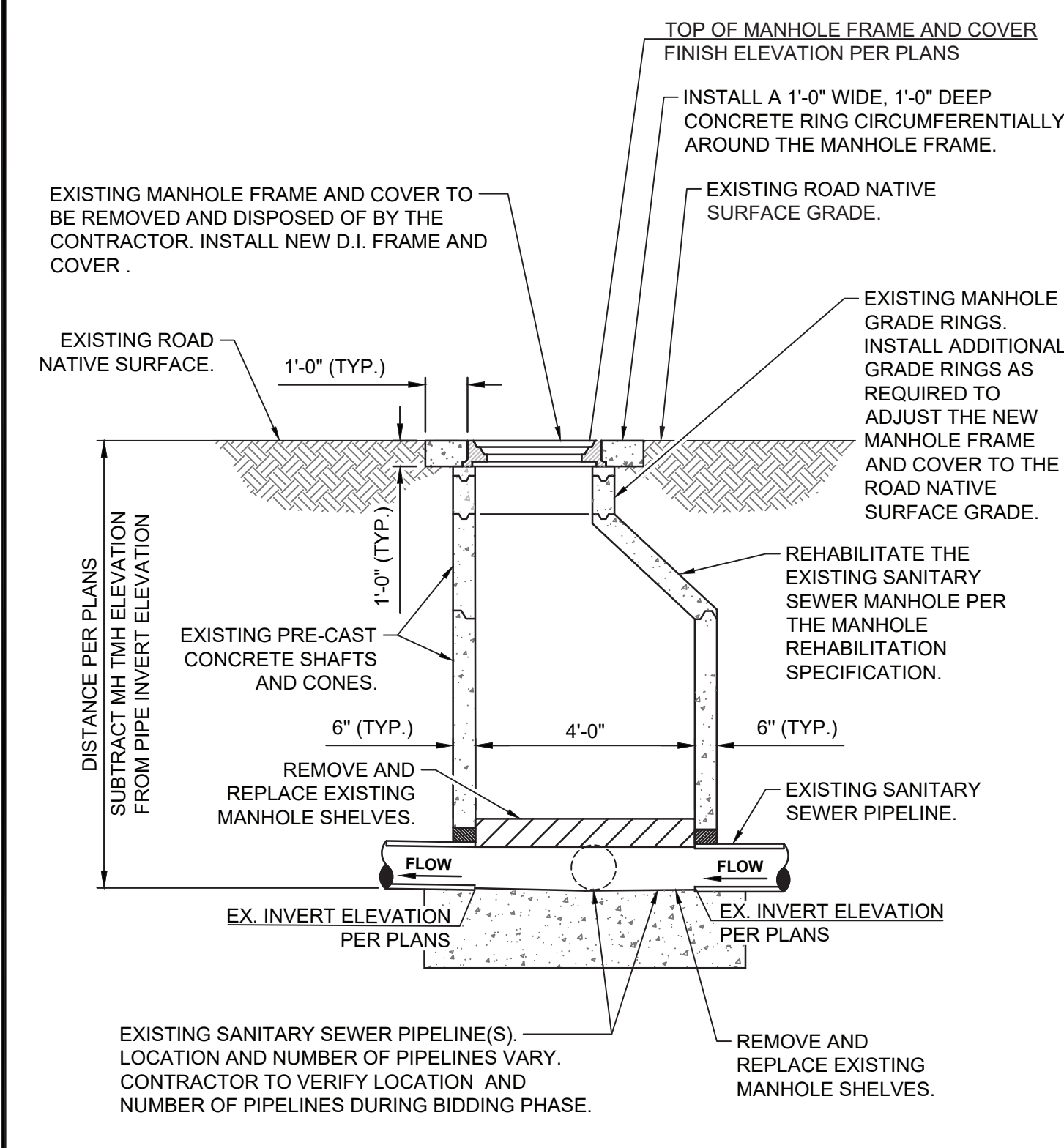
THE HOLT GROUP, INC. PROJECT ENGINEER
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 DATE DATE REVISIONS
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SANITARY SEWER MAIN TRENCH IN UNPAVED AREA **A**
 NTS 3 5



- NOTES:
- WHERE THE CALTRANS PERMIT SETS FORTH REQUIREMENTS MORE STRINGENT THAN THOSE STATED HEREIN, THE CONTRACTOR SHALL ADHERE TO THE CALTRANS PERMIT REQUIREMENTS.
 - CONTRACTOR SHALL FORWARD AN EXCAVATION SUBMITTAL TO CALTRANS, AS REQUIRED BY THE CALTRANS ENCROACHMENT PERMIT. EXCAVATION WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE APPROVED CALTRANS EXCAVATION SUBMITTAL.

EXISTING MANHOLE REHABILITATION DETAIL **B**
 NTS 2-4 5



EXISTING MANHOLE REHABILITATION SPECIFICATION

THE INTERIOR OF THE EXISTING MANHOLE SHAFT SIDEWALLS, CONE AND GRADE RINGS SHALL BE HYDRO-BLASTED AND THE WALL SURFACES REPAIRED PRIOR TO THE INSTALLATION OF A HIGH STRENGTH MORTAR TO RE-BUILD THE MANHOLE SIDEWALLS. ADDITIONAL PCC GRADE RINGS SHALL BE ADDED AT THE MANHOLE ENTRANCE OPENING TO ELEVATE THE MANHOLE RING AND COVER TO THE EXISTING FINISH ROAD GRADE, AS REQUIRED. A NEW MANHOLE FRAME AND COVER WITH A CONCRETE RING SHALL BE INSTALLED AT THE TOP OF THE REHABILITATED MANHOLE. PCC FLOOR SHELVES SHALL BE REPLACED AT THE BOTTOM OF THE MANHOLE. FOLLOWING IS THE LIST OF MANHOLE REHABILITATION ITEMS TO BE COMPLETED:

- PRIOR TO COMMENCING WORK THE CONTRACTOR SHALL ENSURE THAT THE EXISTING WASTEWATER FLOW THROUGH THE MANHOLE WILL NOT BE IMPEDED. THE CONTRACTOR SHALL FURNISH AND INSTALL DEBRIS CONTAINMENT DEVICES TO CATCH ALL MANHOLE DEBRIS DURING THE MANHOLE REHABILITATION PROCESS WHILE MAINTAINING WASTEWATER FLOW THROUGH THE MANHOLE. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS COLLECTED FROM THE MANHOLE REHABILITATION EFFORT. THE CONTRACTOR SHALL ALSO PROVIDE PROPER EQUIPMENT TO COMPLY WITH CONFINED WORK SPACE WORK AREA AND HAZARDOUS ENVIRONMENT CONDITIONS. THE CONTRACTOR'S PERSONNEL SHALL BE TRAINED TO WORK IN CONFINED WORK SPACE AND ENVIRONMENTALLY HAZARDOUS AREAS.
- THE CONTRACTOR SHALL ERECT BARRICADES AROUND THE MANHOLE TO INSURE PEDESTRIANS OR VEHICULAR TRAFFIC DOES NOT ENTER THE MANHOLE REHABILITATION AREA.
- THE EXISTING INTERIOR CONCRETE MANHOLE SHAFT, CONE AND GRADE RING SURFACES SHALL BE HYDRO-BLASTED AT A MINIMUM 5,000 PSI PRESSURE PER GREENBOOK STANDARD 500-2.2.2. A PNEUMATIC CHISEL MAY BE USED TO REMOVE DETERIORATED CONCRETE FROM ISOLATED AREAS WITHIN THE MANHOLE INTERIOR.
- AFTER THE INTERIOR MANHOLE WALL SURFACES ARE CLEANED LOCALIZED REPAIRS SHALL BE PERFORMED USING RAPID SETTING MORTARS COMPATIBLE WITH THE LINING SYSTEM. REPAIR MORTARS SHALL BE USED TO FILL SURFACE IRREGULARITIES, VOIDS AND DETERIORATED SURFACES AND TO REPAIR THE UNDERLYING MANHOLE STRUCTURE TO A UNIFORM SURFACE. MANUFACTURER'S SPECIFICATIONS SHALL BE FOLLOWED WHEN PERFORMING REPAIRS, MATERIAL HANDLING, MIXING INSTALLATION AND CURING.
- A HIGH STRENGTH MORTAR SHALL BE APPLIED TO THE INTERIOR SURFACES OF THE MANHOLE AFTER THE ABOVE ITEMS HAVE BEEN SATISFACTORILY COMPLETED. HIGH STRENGTH MORTAR SHALL BE A RAPID CURING MORTAR AND ATTAIN A COMPRESSIVE STRENGTH OF 7,000 PSI AFTER CURING. THE HIGH STRENGTH MORTAR SHALL BE APPLIED IN CONTINUOUS LIFTS OF 1/2 INCH MINIMUM THICKNESS. THE HIGH STRENGTH MORTAR SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION AND CREATE A SMOOTH AND STRUCTURALLY SOUND INTERIOR SURFACE. THE HIGH STRENGTH MORTAR SHALL BE CURED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
- INSTALL CEMENT GROUT AT THE COLD JOINTS BETWEEN PRECAST GRADE RINGS FLUSH WITH THE INTERIOR SURFACE PRIOR TO APPLYING LINING SYSTEM.
- A RAVEN 405 EPOXY COATING SYSTEM, OR AN APPROVED EQUAL, IS TO BE APPLIED TO THE INTERIOR SURFACE OF THE MANHOLE AFTER ITEM 5 ABOVE HAS BEEN SATISFACTORILY COMPLETED. A PRIMER RECOMMENDED BY THE MANUFACTURER SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF THE EPOXY COATING SYSTEM. THE MINIMUM THICKNESS OF THE EPOXY COATING SYSTEM SHALL BE 125 MILS. DURING THE EPOXY COATING SYSTEM INSTALLATION, A MIL GAUGE SHALL BE USED TO VERIFY THAT THE MINIMUM THICKNESS OF THE LINING MEETS AND/OR EXCEEDS THE MINIMUM SPECIFIED THICKNESS.
- AFTER THE LINING SYSTEM IS INSTALLED THE LINING SHALL BE SPARK TESTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION SPECIFICATION 2021 SECTION 502-6.2 AND REPAIRED PER SECTION 502-6.5.
- THE CONCRETE BASE INCLUDING CHANNELS AND SHELVES SHALL BE REPLACED AT THE BOTTOM OF THE MANHOLE. THE CONCRETE SHALL CONTAIN 7 SACKS OF CEMENT PER CUBIC YARD AND ATTAIN A COMPRESSIVE STRENGTH OF 5,000 PSI AFTER 28 DAYS CURING.
- INSTALL A NEW CONCRETE MANHOLE COVER AND CONCRETE RING AROUND THE MANHOLE COVER AS ILLUSTRATED ON THE EXISTING MANHOLE SECTION VIEW. THE CONCRETE RING SHALL CONTAIN 7 SACKS OF CEMENT PER CUBIC YARD AND ATTAIN A COMPRESSIVE STRENGTH OF 5,000 PSI AFTER 28 DAYS CURING.
- COMPLETE MANHOLE REHABILITATION WORK AS NOTED IN ITEMS 1 THROUGH 10 ABOVE AND IN CONFORMANCE WITH THE PUBLIC WORKS SPECIFICATION SECTION 502-6.5, 2021 EDITION.

PERMIT NUMBER 11- XXX
 CO IMP RTE 111 PM R39.589 - R40.089
 AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE _____ DATE _____

DIST	COUNTY	ROUTE	MILE POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	IMPERIAL	111	PM R39.589 - R40.089	5	8

JAMES G. "JACK" HOLT
 PROJECT ENGINEER
 REGISTERED CIVIL ENGINEER, 31773
 DATE 02/07/2023

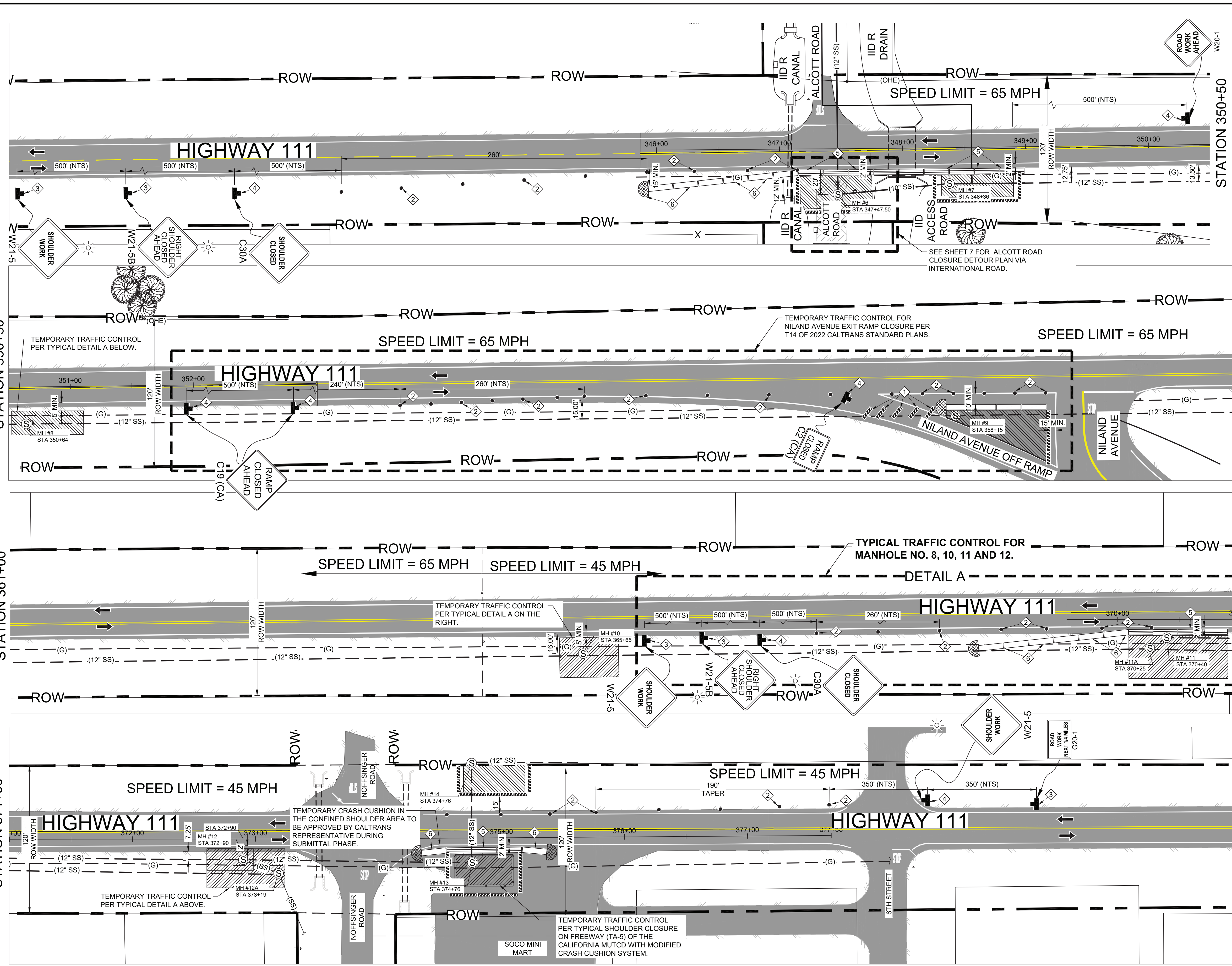
PLANS APPROVAL DATE _____
 IMPERIAL COUNTY PUBLIC WORKS
 115 S 11TH STREET
 EL CENTRO, CA 92243
 THE HOLT GROUP, INC.
 1601 NORTH IMPERIAL AVENUE
 EL CENTRO, CA 92243

REGISTERED PROFESSIONAL ENGINEER
 JAMES G. HOLT
 No. 31773
 Exp. 12-31-24
 CIVIL
 STATE OF CALIFORNIA

LIST OF MANHOLES TO BE REHABILITATED

MH #	REPLACE FRAME AND COVER	MH DEPTH
#6	24-INCH	8.23 FT
#7	24-INCH	5.94 FT
#8	32-INCH	5.47 FT
#9	24-INCH	5.70 FT
#10	27-INCH	3.95 FT
#11	25-INCH	4.99 FT
#11A	25.5-INCH	4.42 FT
#12	25.5-INCH	7.65 FT
#12A	24-INCH	7.55 FT
#13	25.25-INCH	9.23 FT
#14	25-INCH	6.14 FT

THE HOLT GROUP, INC. PROJECT ENGINEER CHECKED BY CALCULATED/DESIGNED BY DATE REVISIONS REVISOR DATE



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 EL CENTRO, CA 92243

THE HOLT GROUP, INC.
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- TRAFFIC CONTROL KEYNOTES**
- INSTALL TYPE III BARRICADE.
 - INSTALL REFLECTIVE TRAFFIC CONES/DELINEATORS AT SPACING INDICATED ON TABLES PER T3 OF 2022 CALTRANS STANDARD PLANS ALONG THE TAPER. TYPICAL.
 - INSTALL WARNING/REGULATORY SIGN WITH WARNING LIGHT AS ILLUSTRATED ON THE PLAN.
 - INSTALL WARNING/REGULATORY SIGN AS ILLUSTRATED ON THE PLAN.
 - INSTALL K-RAIL AS ILLUSTRATED ON THE PLAN.
 - INSTALL TEMPORARY CRASH CUSHIONS PER T2 OF 2022 CALTRANS STANDARD PLANS AND TA-5 OF CALIFORNIA MUTCD.

TRAFFIC CONTROL LEGEND

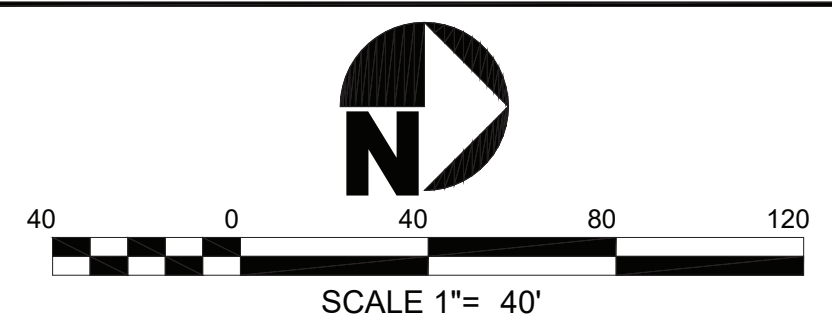
ITEM NO.	ITEM DESCRIPTION	ITEM
1.	CHANNELIZING DEVICE	•
2.	DIRECTION OF TRAFFIC	→
3.	TYPE III BARRICADE	▬
4.	WARNING/REGULATORY SIGN	⬮
5.	WARNING LIGHT	⊛
6.	WORK AREA	▨
7.	K-RAIL	▬▬▬
8.	CRASH CUSHION BARRICADE	▬▬▬
9.	CRASH CUSHION	⊞

TEMPORARY TRAFFIC CONTROL SET-UP

MH #	STA.	DISTANCE BETWEEN EDGE OF TRAVELED WAY AND K-RAIL OUTER EDGE (FT)	REHABILITATE OR TO REMAIN	2022 CALTRANS STANDARD PLAN	2014 CALIFORNIA MUTCD
6	347+47.50	2' MIN.	REHABILITATE	T2	TA-5
7	348+36	2' MIN.	REHABILITATE	T2	TA-5
8	350+64	2' MIN.	REHABILITATE	T2	TA-5
9	358+15	10' MIN.	REHABILITATE	T2 AND T14	TA-5
10	365+65	2' MIN.	REHABILITATE	T2	TA-5
11	370+40	2' MIN.	REHABILITATE	T2	TA-5
11A	370+25	2' MIN.	REHABILITATE	T2	TA-5
12	372+90	2' MIN.	REHABILITATE	T2	TA-5
12A	373+19	2' MIN.	REHABILITATE	T2	TA-5
13	374+76	2' MIN.	REHABILITATE	T2	TA-5
14	374+76	15' MIN.	REHABILITATE	N/A	TA-3

NOTES:

- THE CONTRACTOR SHALL MAINTAIN THE INGRESS AND EGRESS OF THE RESIDENTIAL AND BUSINESS ACCESS AT ALL TIMES DURING THE CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL PROVIDE TEMPORARY ACCESS RAMP(S) OR TRAVEL WAYS, IF NECESSARY.
- REFER TO GENERAL NOTES ON PLAN SHEET 7.



TRAFFIC CONTROL PLAN

THG PROJECT NO. 542.089
 DATE PLOTTED=> 02-07-2024
 TIME PLOTTED=> 02:02 PM
 LAST REVISION

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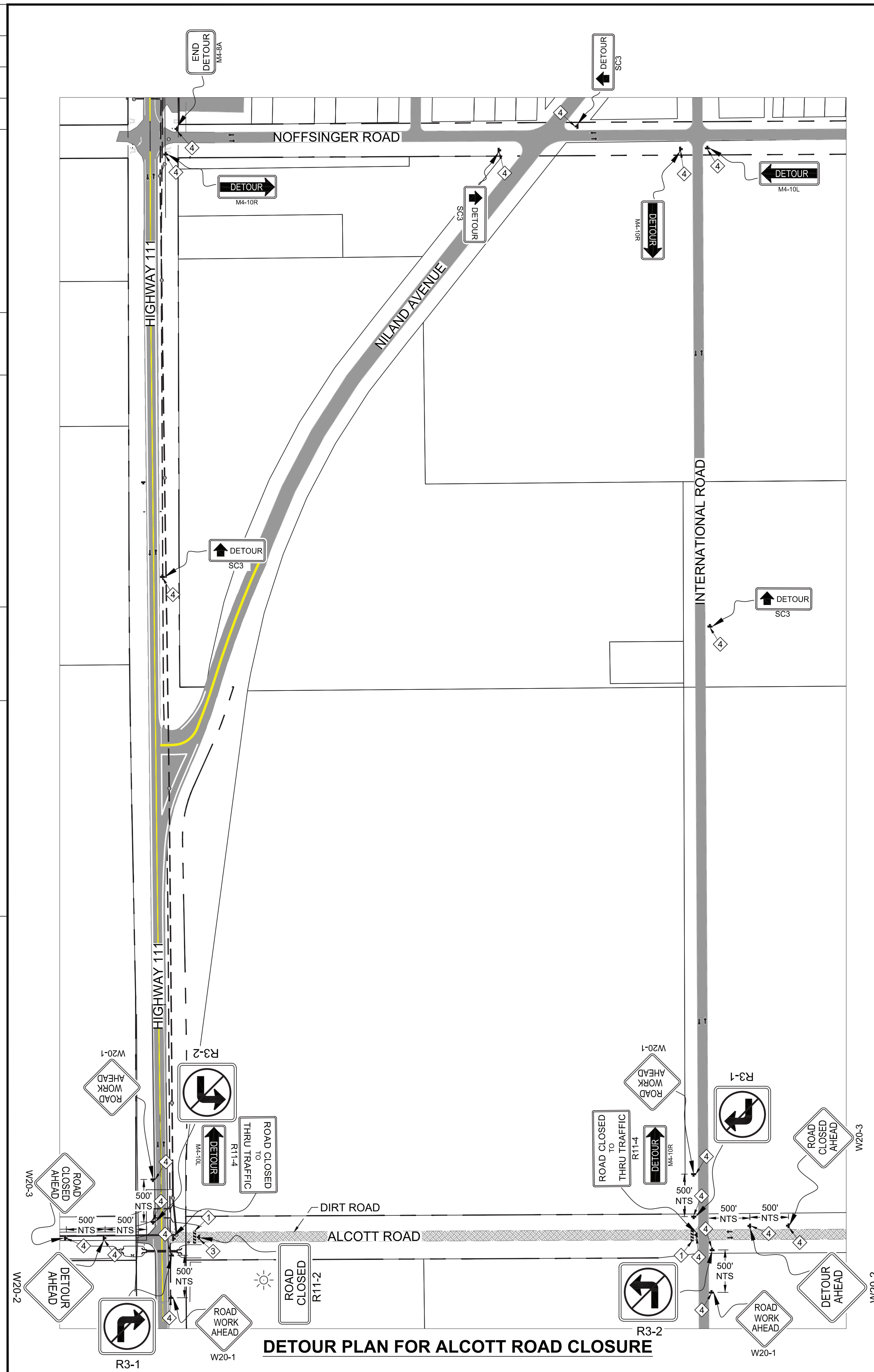
PERMIT NUMBER 11- XXX
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 AS-BUILT PLANS FOR ROADWAY GEOMETRIC
 AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE		DATE	
DIST	COUNTY	ROUTE	MILE POST
11	IMPERIAL	111	PM R39.589 - R40.089
TOTAL PROJECT		SHEET NO.	TOTAL SHEETS
		7	8

JAMES G. "JACK" HOLT
 PROJECT ENGINEER
 REGISTERED CIVIL ENGINEER, 31773
 DATE 02/07/2023

PLANS APPROVAL DATE
 IMPERIAL COUNTY PUBLIC WORKS
 115 S 11TH STREET
 EL CENTRO, CA 92243

THE HOLT GROUP, INC.
 1601 NORTH IMPERIAL AVENUE
 EL CENTRO, CA 92243



DETOUR PLAN FOR ALCOTT ROAD CLOSURE

TRAFFIC CONTROL KEYNOTES

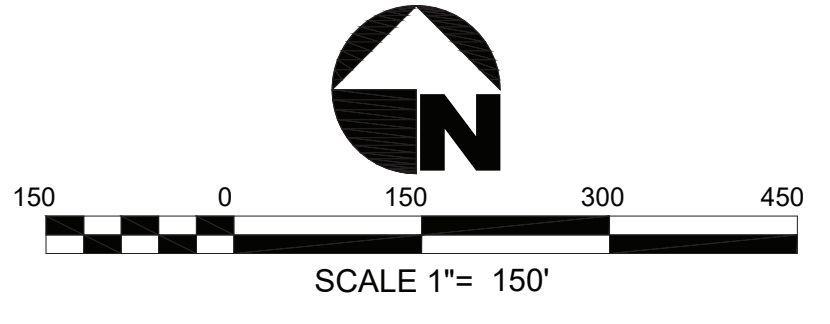
- 1. INSTALL TYPE III BARRICADE.
- 2. INSTALL REFLECTIVE TRAFFIC CONES/DELINEATORS AT SPACING INDICATED ON TABLES PER T9 OF 2022 CALTRANS STANDARD PLANS ALONG THE TAPER. TYPICAL.
- 3. INSTALL WARNING/REGULATORY SIGN WITH WARNING LIGHT AS ILLUSTRATED ON THE PLAN.
- 4. INSTALL WARNING/REGULATORY SIGN AS ILLUSTRATED ON THE PLAN.
- 5. INSTALL K-RAIL AS ILLUSTRATED ON THE PLAN.
- 6. INSTALL TEMPORARY CRASH CUSHIONS PER T2 OF 2022 CALTRANS STANDARD PLANS AND TA-5 OF CALIFORNIA MUTCD.

ITEM NO.	ITEM DESCRIPTION	ITEM
1.	CHANNELIZING DEVICE	
2.	DIRECTION OF TRAFFIC	
3.	TYPE III BARRICADE	
4.	WARNING/REGULATORY SIGN	
5.	WARNING LIGHT	
6.	WORK AREA	
7.	K-RAIL	
8.	CRASH CUSHION BARRICADE	
9.	CRASH CUSHION	

NOTE: THE CONTRACTOR SHALL MAINTAIN THE INGRESS AND EGRESS OF THE RESIDENTIAL AND BUSINESS ACCESS AT ALL TIMES DURING THE CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL PROVIDE TEMPORARY ACCESS RAMP(S) OR TRAVEL WAYS, IF NECESSARY.

GENERAL TRAFFIC CONTROL NOTES:

1. ALL TRAFFIC CONTROL DEVICES FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF CALTRANS STANDARD PLANS AND/OR MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND MUTCD CALIFORNIA SUPPLEMENT.
2. TRAFFIC CONTROL SHOWN HEREIN IS THE MINIMUM REQUIRED. ADDITIONAL TRAFFIC CONTROL MAY BE REQUIRED TO FACILITATE PUBLIC SAFETY AND TRAFFIC FLOW IF DEEMED NECESSARY BY THE CALTRANS REPRESENTATIVE, COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT REPRESENTATIVE, OR THE COUNTY ENGINEER. THESE CHANGES MAY BE DONE IN THE FIELD.
3. TRAFFIC CONTROL DEVICES SHOWN ON PLANS ARE LOCATED APPROXIMATELY AND SHALL BE ADJUSTED AS REQUIRED TO MEET FIELD CONDITIONS. ALL SUCH CHANGES MADE DUE TO FIELD CONDITIONS SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF CALTRANS STANDARD PLANS, MUTCD, AND MUTCD CALIFORNIA SUPPLEMENT.
4. THROUGHOUT EACH WORK PERIOD, CONTRACTOR SHALL INSPECT TRAFFIC CONTROL (SIGNS, BARRICADES AND DELINEATORS) AND MAINTAIN SAME IN ACCORDANCE WITH TRAFFIC CONTROL PLANS.
5. CONTRACTOR SHALL MAINTAIN A MINIMUM 12-FOOT TRAFFIC LANE WIDTH AT ALL TIMES. THERE SHALL BE A MINIMUM 2-FOOT BETWEEN THE EDGE OF CUT AND THE NEAREST TRAFFIC LANE.
6. ACCESS TO PRIVATE PROPERTY SHALL BE MAINTAINED AT ALL TIMES.
7. ALL SIGNS SHALL BE HIGH INTENSITY REFLECTIVE. ALL TRAFFIC CONTROL DEVICES SHALL BE REFLECTIVE. FLASHING LIGHTS ARE OPTIONAL. TRAFFIC BEACONS (12") SHALL BE PLACED ON ALL DETOUR AHEAD (W21-4) AND ROAD CLOSED AHEAD (C19) SIGNS.
8. THE INTENSITY AND DISTRIBUTION OF LIGHT FROM EACH ILLUMINATED SIGNAL LENS SHOULD CONFORM TO THE CURRENT STANDARDS FOR VEHICLE TRAFFIC CONTROL SIGNAL HEADS AND TRAFFIC SIGNAL LAMPS (SEE SECTION 1A.11 OF LATEST VERSION OF CALMUTCD). IF A SIGNAL INDICATION IS OPERATED IN THE FLASHING MODE FOR NIGHTTIME OPERATION AND THE SIGNAL INDICATION IS SO BRIGHT AS TO CAUSE EXCESSIVE GLARE, SOME FORM OF AUTOMATIC DIMMING SHOULD BE USED TO REDUCE THE BRILLIANCE OF THE SIGNAL INDICATION.
9. REFER TO THE LATEST REVISION OF CALIFORNIA MUTCD REGARDING THE NOTES FOR EACH TYPICAL APPLICATION CALLED OUT ON THIS PLAN.
10. CONTRACTOR SHALL INSPECT TRAFFIC CONTROL AT THE BEGINNING AND AT THE END OF EACH WORKING DAY TO ENSURE COMPLIANCE WITH THESE PLANS AND PROJECT SPECIFICATIONS.
11. ALL TEMPORARY TRAFFIC CONTROL DEVICES NOT APPLICABLE FOR NIGHT TIME TEMPORARY TRAFFIC CONTROL SHALL BE REMOVED AND STORED AT A SAFE LOCATION. NO SUCH DEVICE SHALL BE LEFT IN PLACE WITHOUT PRIOR APPROVAL BY THE CALTRANS REPRESENTATIVE AND/OR COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT REPRESENTATIVE AND/OR THE COUNTY ENGINEER.
12. ARROWS AND STRIPING IN CONSTRUCTION ZONE SHALL BE COVERED WITH TEMPORARY STRIPING BLACKOUT TAPE. THE TAPE SHALL BE REMOVED AT THE END OF THE WORK.
13. THE CALTRANS REPRESENTATIVE, COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT REPRESENTATIVE AND/OR THE PROJECT RESIDENT ENGINEER SHALL DETERMINE IF THE PLAN STAYS IN PLACE OVERNIGHT OR NOT. IF A PORTION OF THE CONSTRUCTION AREA MUST REMAIN OPEN AT THE END OF EACH WORK DAY, EACH EXPOSED SECTION MUST BE COMPLETELY FILLED WITH CLASS 2 BASE MATERIAL, AND SURROUNDED WITH BARRICADES AND TAPE OR AS APPROVED BY THE CALTRANS REPRESENTATIVE, COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT REPRESENTATIVE OR THE COUNTY ENGINEER.
14. CONTRACTOR SHALL APPLY TEMPORARY TRAFFIC CONTROL IN ACCORDANCE WITH THE LATEST VERSION OF MUTCD, MUTCD CALIFORNIA SUPPLEMENT, AND CALTRANS STANDARD PLANS FOR THE INSTALLATION OF TEMPORARY STRIPING.
15. ALL ADJACENT BUSINESSES, RESIDENCES, SCHOOL AND CHURCHES SHALL BE DULY NOTIFIED BY THE CONTRACTOR, IN WRITING, OF THEIR PROPOSED OPERATIONS. NOTICE SHALL BE DELIVERED AT LEAST TWO (2) WORKING WEEKS PRIOR TO START OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPRODUCTION OF NOTIFICATION LETTERS. THE NOTIFICATION LETTERS SHALL BE WRITTEN IN ENGLISH AND SPANISH LANGUAGES. RE-NOTIFICATION WILL BE REQUIRED IF THE CONTRACTOR'S SCHEDULE IS ALTERED OR OTHER DELAYS OCCUR WHICH AFFECT THE PROJECT SCHEDULE.
16. CONTRACTOR SHALL COVER EXISTING TRAFFIC SIGNS, TRAFFIC SIGNALS, OR PEDESTRIAN SIGNAL INDICATIONS SHOULD SAID CONTROLS CONFLICT WITH TEMPORARY TRAFFIC CONTROL PLAN OR AS DIRECTED BY THE CALTRANS OR COUNTY OF IMPERIAL REPRESENTATIVE.
17. CONTRACTOR SHALL REPLACE/REPAIR ANY AND ALL STRIPING, PAVEMENT MARKINGS, RAISED PAVEMENT MARKERS, AND CURB PAINT DISRUPTED OR REMOVED DURING THE CONSTRUCTION TO THE SATISFACTION OF THE CALTRANS REPRESENTATIVE AND/OR COUNTY ENGINEER. ALL CONFLICTING LINES, ARROWS, MARKINGS, OR CURB PAINT SHALL BE REMOVED BY WET SANDBLASTING OR OTHER APPROVED METHOD PRIOR TO INSTALLATION OF NEW/TEMPORARY STRIPING. ALL CONFLICTING RAISED PAVEMENT MARKERS SHALL BE REMOVED. PAVEMENT THAT IS DAMAGED DUE TO THE REMOVAL OF MARKINGS SHALL BE REPAIRED TO THE SATISFACTION OF THE CALTRANS REPRESENTATIVE AND/OR COUNTY ENGINEER.
18. WHENEVER THE WORK CAUSES OBLITERATION OF PAVEMENT DELINEATION, TEMPORARY OR PERMANENT PAVEMENT DELINEATION SHALL BE IN PLACE PRIOR TO OPENING THE TRAVELED WAY TO PUBLIC TRAFFIC. LANE LINES AND CENTERLINE PAVEMENT DELINEATION SHALL BE PROVIDED AT ALL TIMES FOR TRAVELED WAYS OPEN TO THE PUBLIC TRAFFIC.
19. ALL ADVANCED WARNING SIGNS SHALL BE EQUIPPED WITH FLAGS FLASHING YELLOW BEACONS, TYPE-B ON ALL W20-1 SIGNS AND ON ALL TYPE-III AND TYPE-II BARRICADES GUARDING THE WORK AREA OVERNIGHT.



TRAFFIC CONTROL PLAN

THG PROJECT NO. 542.089
 DATE PLOTTED=> 02-07-2024
 TIME PLOTTED=> 02:03 PM
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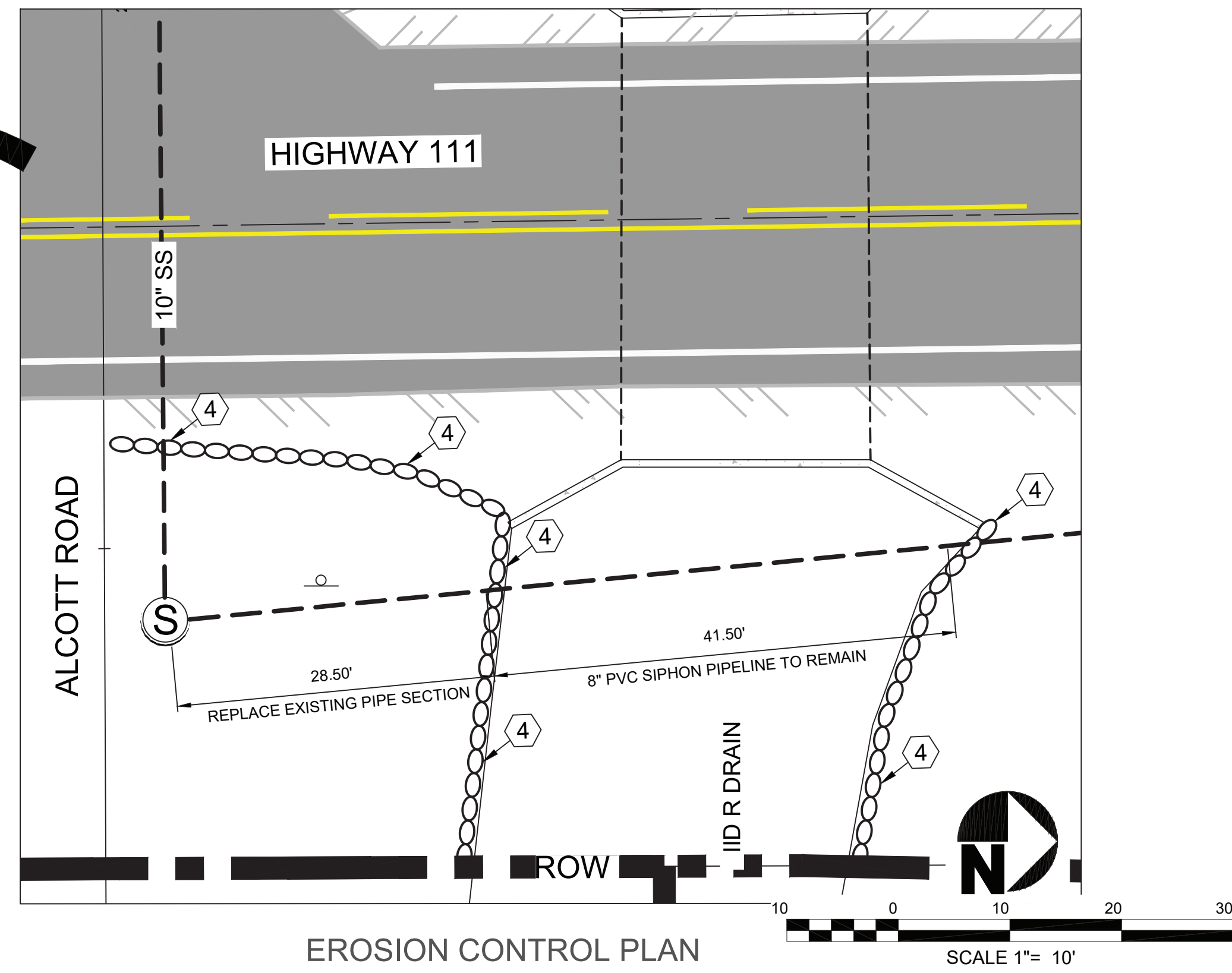
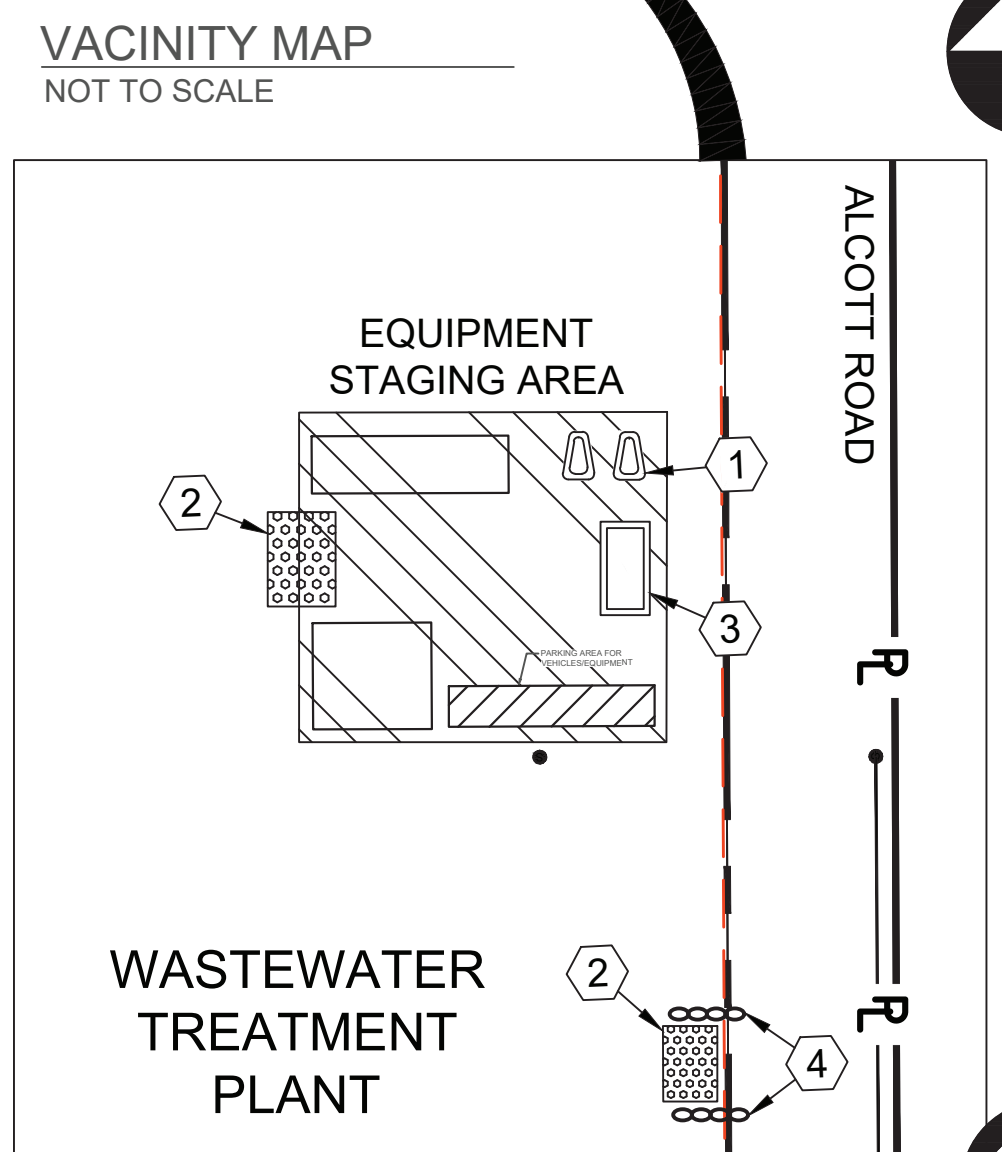
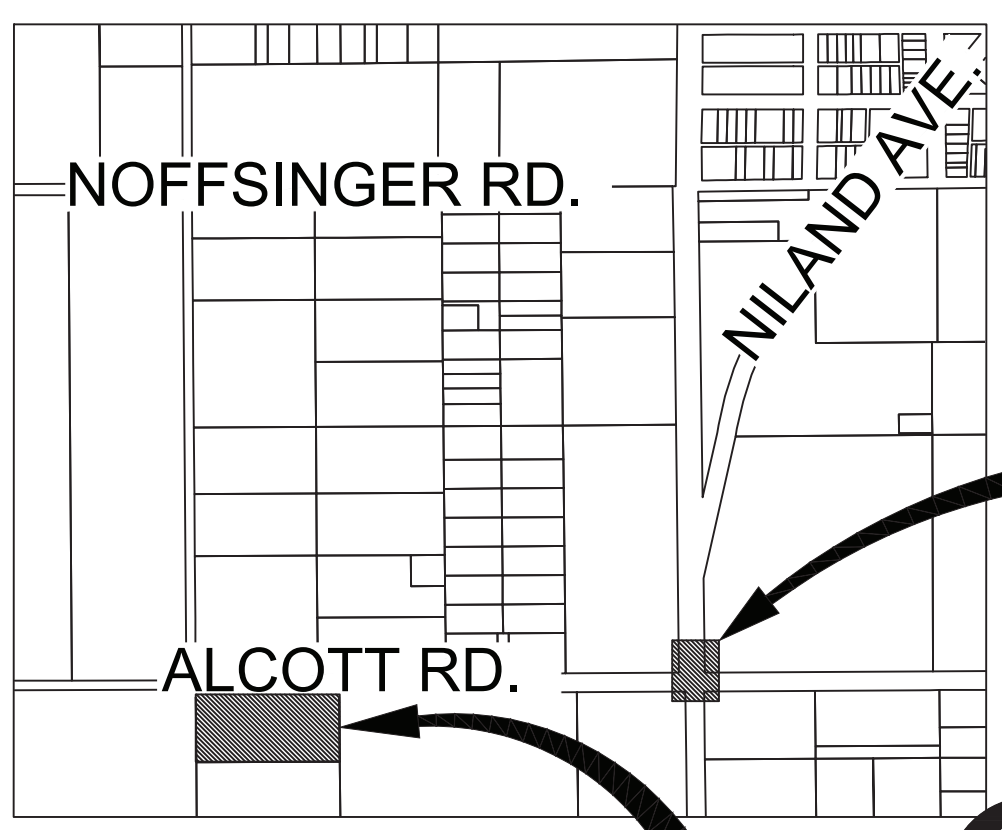
STATE REPRESENTATIVE		DATE			
DIST	COUNTY	ROUTE	MILE POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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JAMES G. "JACK" HOLT
 PROJECT ENGINEER
 REGISTERED CIVIL ENGINEER, 31773

02/07/2024
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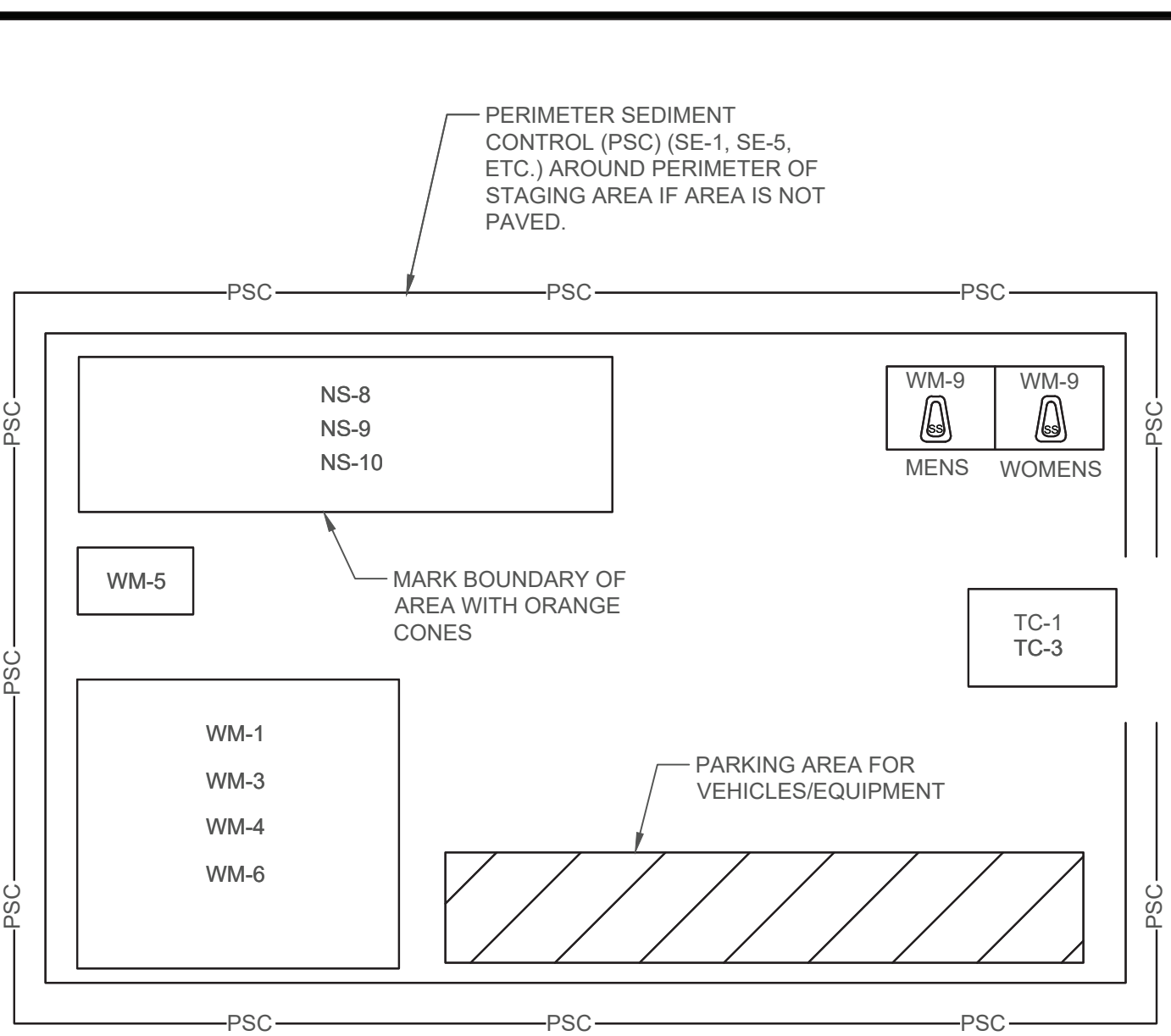
- LEGEND**
- PORTABLE TOILET
 - GRAVEL BAGS
 - CONCRETE WASHOUT AREA
 - CONSTRUCTION ENTRANCE

- BMP KEYNOTES**
- ① CONTRACTOR SHALL LOCATE THE PORTABLE RESTROOM FACILITIES IN THE STAGING AREA. INSTALL TWO (2) PORTABLE RESTROOM FACILITIES. SEE DETAIL E1 FOR TYPICAL STAGING AREA ON SHEET 8.
 - ② INSTALL CONSTRUCTION ENTRANCE PER DETAIL E1 AND E2 ON SHEET 8. RELOCATE THE CONSTRUCTION ENTRANCE AS NEEDED TO MINIMIZE DIRT AND DUST FROM LEAVING THE CONSTRUCTION AREA.
 - ③ INSTALL CONCRETE WASHOUT AREA. SEE DETAIL E1 AND E3 ON SHEET 8.
 - ④ INSTALL TWO (2) LAYER GRAVEL-FILLED BAGS. SEE DETAIL E4 ON SHEET 8.

GENERAL EROSION CONTROL NOTES:

1. EROSION CONTROL PLAN INCLUDES ALL POSSIBLE BMPs FOR THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL APPLY APPROPRIATE BMPs FOR EACH PHASE OF CONSTRUCTION.
2. STREET SWEEPING (STREETS WILL BE SWEEP DAILY AND AS NECESSARY TO PREVENT DIRT AND DUST FROM LEAVING THE CONSTRUCTION AREA).
3. CONTRACTOR SHALL PROVIDE ADEQUATE DUST SUPPRESSION TO MEET ALL COUNTY OF IMPERIAL AIR POLLUTION CONTROL DISTRICT REQUIREMENTS.
4. ALL BEST MANAGEMENT PRACTICES SHALL MEET THE REQUIREMENTS OF THE LATEST VERSION OF CALTRANS CONSTRUCTION SITE BMP FACT SHEETS.
5. SITE DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES.
6. NO SITE CLEARING OR GRADING SHALL BEGIN UNTIL ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED.
7. GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
8. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.

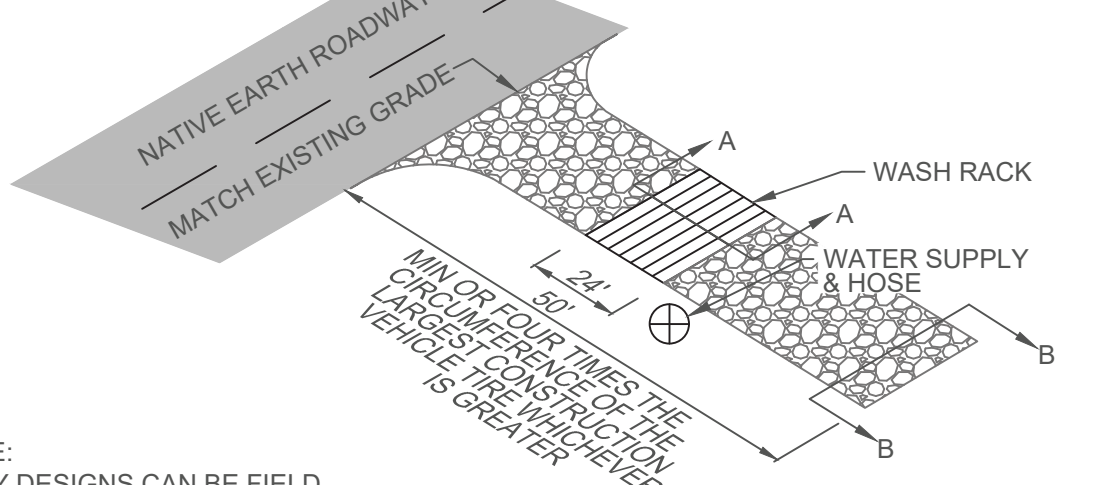
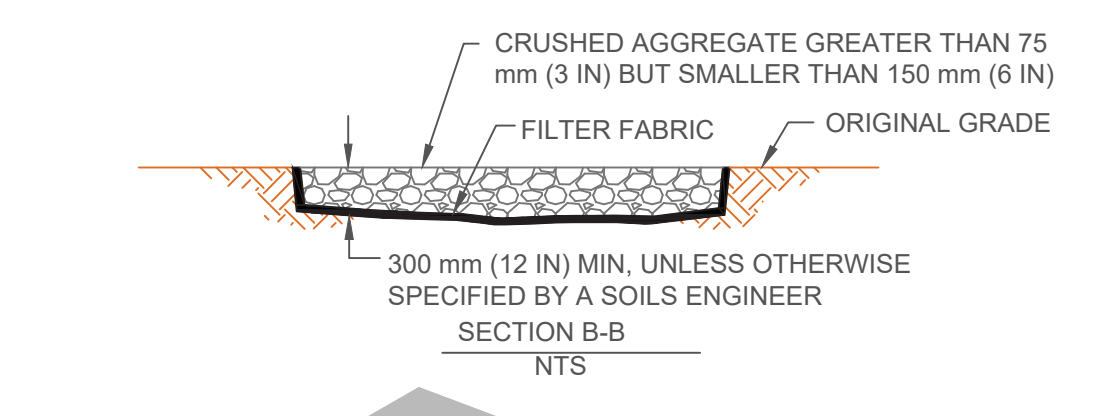
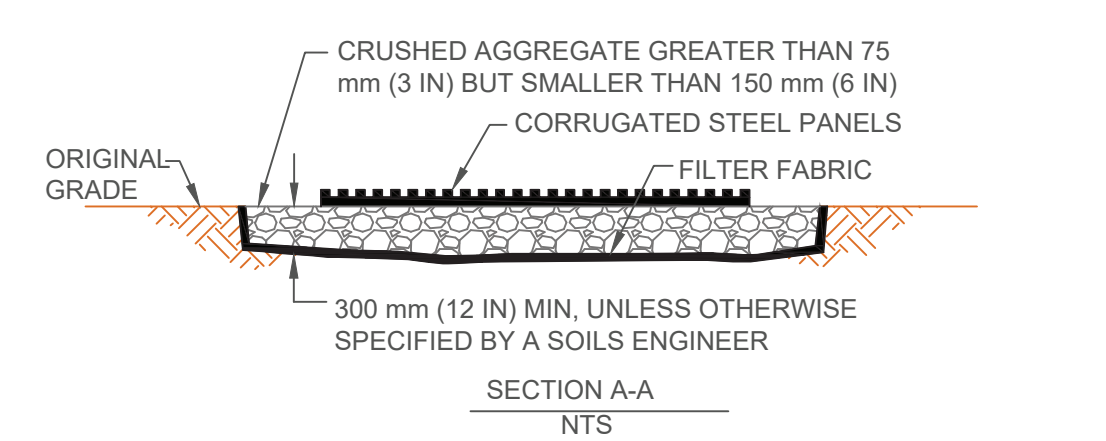
STAGING AREA WITHIN THE WWTP
 NOT TO SCALE



- LEGEND**
- SE-1 SILT FENCE
 - SE-5 FIBER ROLLS
 - NS-8 VEHICLE AND EQUIPMENT CLEANING
 - NS-9 VEHICLE AND EQUIPMENT FUELING
 - NS-10 VEHICLE AND EQUIPMENT MAINTENANCE
 - WM-1 MATERIAL DELIVERY AND STORAGE
 - WM-3 STOCKPILE MANAGEMENT
 - WM-4 SPILL PREVENTION AND CONTROL
 - WM-5 SOLID WASTE MANAGEMENT
 - WM-6 HAZARDOUS WASTE MANAGEMENT
 - WM-9 SANITARY/SEPTIC WASTE MANAGEMENT
 - TC-1 STABILIZED CONSTRUCTION ENTRANCE/EXIT
 - TC-3 TEMPORARY ENTRANCE/OUTLET TIRE WASH
 - WE-1 WIND EROSION CONTROL (TO BE IMPLEMENTED FOR UNPAVED NATIVE AREAS STOCKPILE MANAGEMENT)

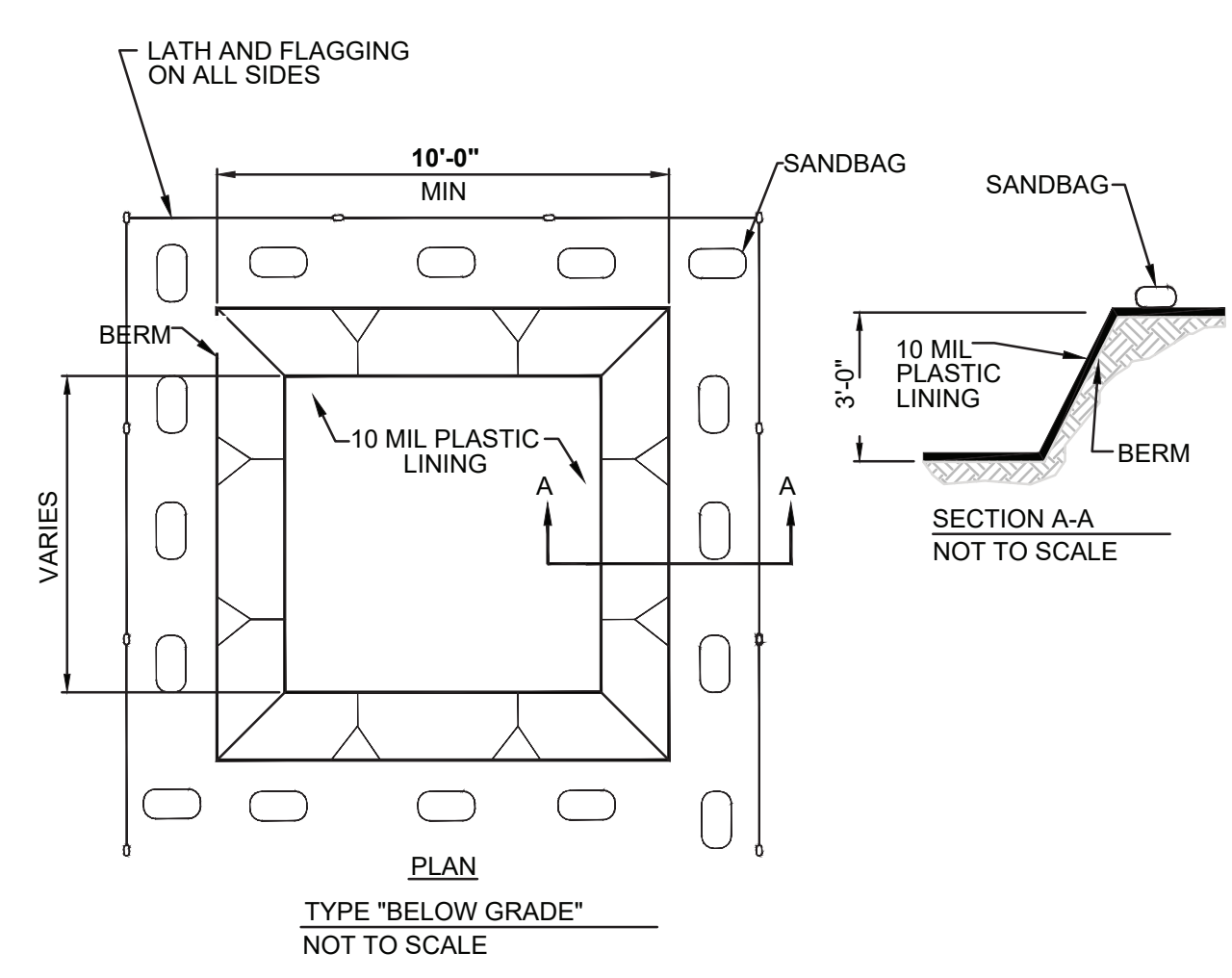
NOTES:

1. CONTRACTOR SHALL ADJUST THE LAYOUT OF STAGING AREA BASED ON PROJECT SITE CONDITIONS AS NECESSARY.
2. CONTRACTOR SHALL IMPLEMENT PERIMETER SEDIMENT CONTROL FOR STAGING AREA BASED ON PROJECT SITE CONDITIONS UPON THE APPROVAL OF THE RESIDENT ENGINEER.



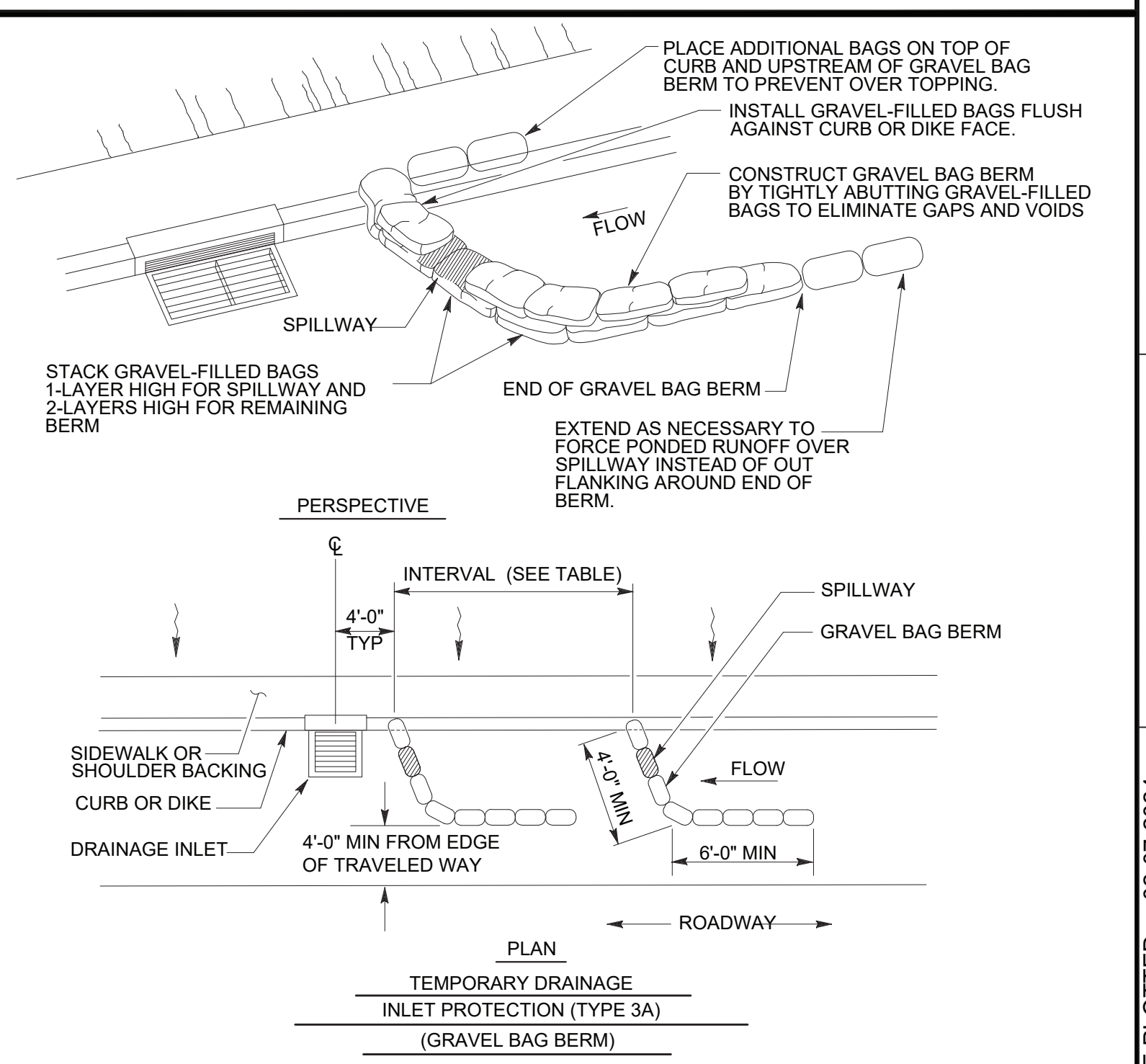
NOTE: MANY DESIGNS CAN BE FIELD FABRICATED, OR FABRICATED UNITS MAY BE USED AS LONG AS DESIGN IS ADEQUATE FOR FULL LENGTH CONSTRUCTION TRUCK VEHICLES.

CONSTRUCTION ENTRANCE - DETAIL E2
 NOT TO SCALE



NOTE: CONTRACTOR SHALL USE A TEMPORARY WASHOUT AREA AT AREAS WHERE A PERMANENT CONCRETE WASHOUT IS NOT ALLOWED.

CONCRETE WASHOUT AREA - DETAIL E3
 NOT TO SCALE



GRAVEL BAG BERM (TYPE 3A) SPACING TABLE

SLOPE OF ROADWAY (PERCENT)	1 to 3.9	4 to 5.9	6 to 7.9	8 to 10	10+
INTERVAL BETWEEN BERM	100'	75'	50'	25'	12'

For slope of less than 1%, install barriers only if erosion/sediment is prevalent

GRAVEL BAG DETAIL - DETAIL E4
 NOT TO SCALE

WATER POLLUTION CONTROL PROGRAM

REVISIONS: 02-07-2024
 DATE PLOTTED=> 02-07-2024
 TIME PLOTTED=> 02:07 PM
 THG PROJECT NO. 542.089
 THE HOLT GROUP, INC.
 PROJECT ENGINEER
 CHECKED BY
 DESIGNED BY
 DATE
 REVISIONS
 DATE REVISIED
 REVISIED BY