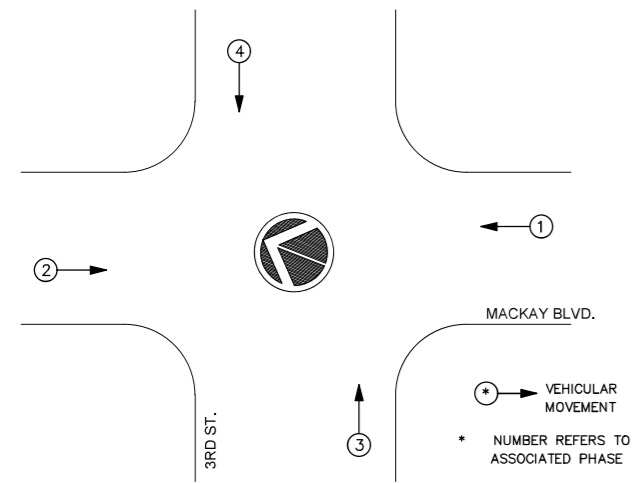


PROPOSED PHASE PLAN FOR INTERSECTION		
PHASE	1,2	3,4
MOVEMENT	← →	↑ ↓

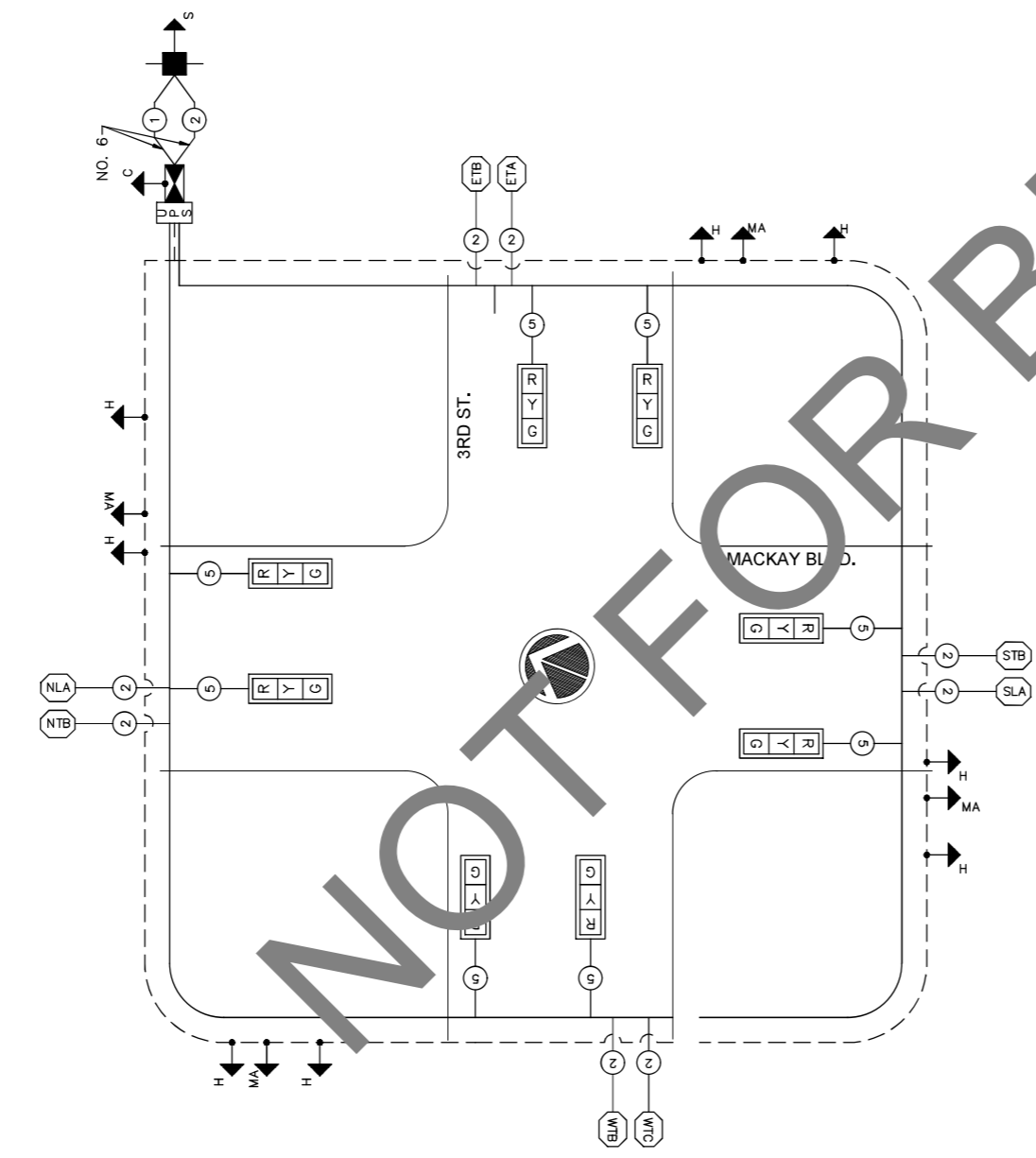


**PHASE DESIGNATION DIAGRAM**  
NOT TO SCALE

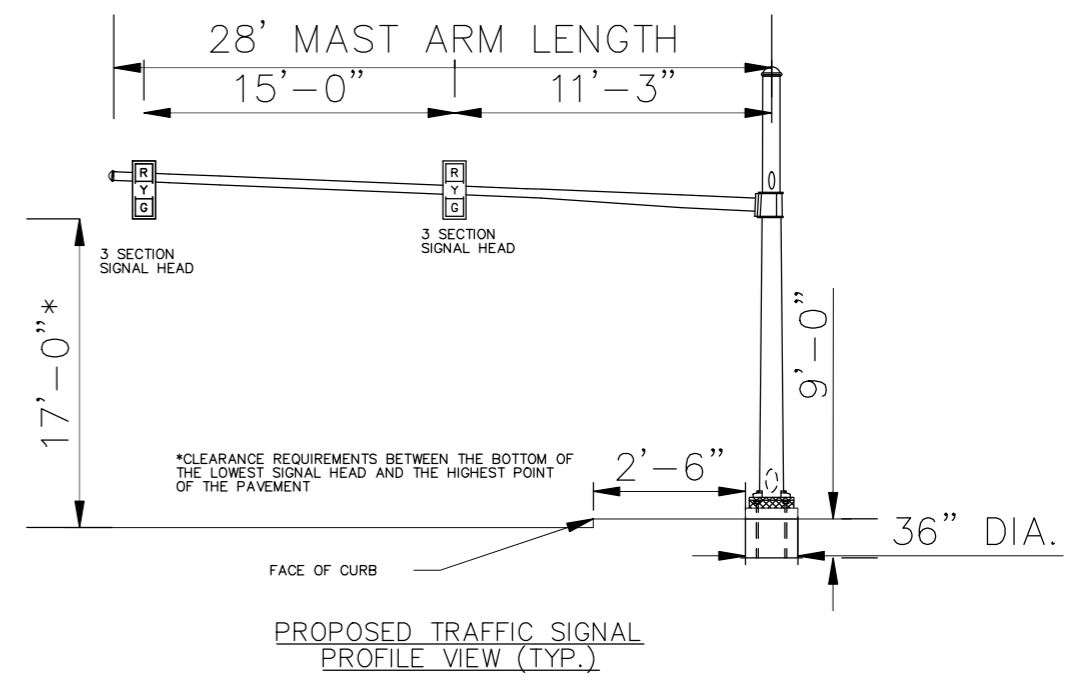
- CABLE PLAN LEGEND**
- ② INDICATES NUMBER OF NEW CONTROLLERS. ALL CABLE IS NO. 14 (UNLESS OTHERWISE INDICATED)
  - [Symbol] NEW SIGNAL HEAD WITH BACKPLATE.
  - (E) TOMAR - EMERGENCY VEHICLE SIGNAL CONTROL SYSTEM (CABLE INCLUDED IN COST OF SYSTEM)
  - [Symbol] CONTROLLER CABINET
  - [Symbol] SERVICE INSTALLATION, TYPE A
  - (SD) 6'X1' SAMPLING DETECTORS
  - GROUND WIRE (NO 6, 1C)
  - C ← GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H) OR CONTROLLER (C)
  - MA ← GROUND ROD AT POST (P) OR MAST ARM (MA)
  - S ← GROUND ROD AT ELECTRICAL SERVICE INSTALLATION (S)
  - [Symbol] UNINTERRUPTIBLE POWER SUPPLY

**CONTROLLER SPECIFIED:**  
FULL-ACTUATED CONTROLLER MODEL 332LS AND CABINET

**POSTED SPEED LIMIT:**  
3RD ST. = 25 MPH  
MACKAY BLVD. = 25 MPH



- GENERAL NOTES**
- ALL SIGNING, STRIPING, TRAFFIC SIGNALS AND TRAFFIC CONTROL DEVICES USED DURING AND AFTER CONSTRUCTION SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CURRENT EDITION.
  - ITEM 870400 SIGNAL AND LIGHTING SYSTEM SHALL INCLUDE NEW CONSTRUCTION OF THE INTENDED DESIGN TO CONFORM TO THE 2023 CALTRANS STANDARD SPECIFICATIONS, DIVISION X, AND STANDARD PLANS ADOPTED OCTOBER 24, 2022.
  - THE LOCATIONS FOR HANDHOLES, TRAFFIC SIGNAL POSTS, AND MAST ARM FOUNDATIONS ARE PROVIDED FOR REFERENCE ONLY. ALL LOCATIONS SHALL BE VERIFIED PRIOR TO INSTALLATION.
  - MAST ARM SHOP DRAWINGS SHALL BE DESIGNED TO HANDLE LOADINGS SHOWN IN THE PLANS AND SIGNAL DETAILS.
  - MATERIAL TYPES SHALL BE AS FOLLOWS: SIGNAL POLES SHALL BE GALVANIZED STEEL, MAST ARM ASSEMBLIES SHALL BE GALVANIZED STEEL, SIGNAL HEADS SHALL BE POLYCARBONATE, MAST ARM MOUNTED. ALL TRAFFIC SIGNAL EQUIPMENT IS TO HAVE A GALVANIZED FINISH EXCEPT FOR THE SIGNAL HEADS.
  - ALL TRAFFIC SIGNAL HEAD BRACKETS ARE TO BE ALUMINUM.
  - ALL TRAFFIC SIGNAL POSTS ARE TO BE GALVANIZED STEEL.
  - MAST ARM MOUNTED TRAFFIC SIGNALS SHALL BE MOUNTED USING A SKY MOUNTING BRACKET.
  - ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR SHALL BE TWISTED AND SHIELDED.



ALL TRAFFIC SIGNAL MAST ARMS, CONTROLLER CABINETS, HANDHOLES (LIDS AND FRAMES), AND EXPOSED METALLIC CONDUITS SHALL BE GROUNDED AND SAFETY BONDED IN ACCORDANCE WITH NEC REQUIREMENTS.

**CABLE PLAN**  
NOT TO SCALE

Underground Service Alert  
Call: TOLL FREE  
1-800-227-2600  
TWO WORKING DAYS BEFORE YOU DIG

**BENCHMARK**  
NATIONAL GEODETIC SURVEY BENCHMARK  
DESCRIPTION: REF 51  
EVD 88  
DATUM: NAVD 88  
ELEVATION: 106.43 FEET  
DESCRIPTION: 0.2 KM SOUTHWEST ALONG PALM AVENUE FROM ITS JUNCTION WITH INTERSTATE HIGHWAY 215 AND HIGHWAY 206. THENCE 0.2 KM SOUTHWESTERLY ALONG INSTITUTION ROAD 23.5 M (77.3 FT) N OF THE CENTERLINE OF THE ROAD 6.0 M (19.7 FT) E OF THE CENTER OF A TRACK ROAD 12 M (39.4 FT) W OF A UTILITY POLE NUMBER 1991821E 0.2 M (2.6 FT) S OF A WITNESS POST 0.2 M (0.7 FT) ABOVE THE ROAD 0.2 M (0.7 FT) BELOW THE GROUND SURFACE.

PREPARED BY:  
**IMEG**  
PROJECT # 22006394.00  
JOHN M. THOMPSON RCE NAME  
C82557 RCE No.  
11/07/23 DATE

REGISTERED PROFESSIONAL ENGINEER  
JOHN MARK THOMPSON  
C 82557  
CIVIL  
STATE OF CALIFORNIA

MARK	REVISIONS	APPR	DATE

SAN BERNARDINO COUNTY  
PROJECT AND FACILITIES MANAGEMENT DEPARTMENT  
RECOMMENDED BY:  
APPROVED BY:  
ELSY BANKS PROJECT MANAGER III

SAN BERNARDINO COUNTY  
SHERIFF'S DEPARTMENT  
EMERGENCY VEHICLE OPERATIONS CENTER  
ASPHALT & LIGHTING REPLACEMENT  
PROJECT NO. 10.10.1222  
SIGNAL CABLE PLAN & NOTES

ROAD NO.  
FILE NO.  
SHEET 44 OF 44